

Annual Report 2010



Municipal Corporation of Greater Mumbai



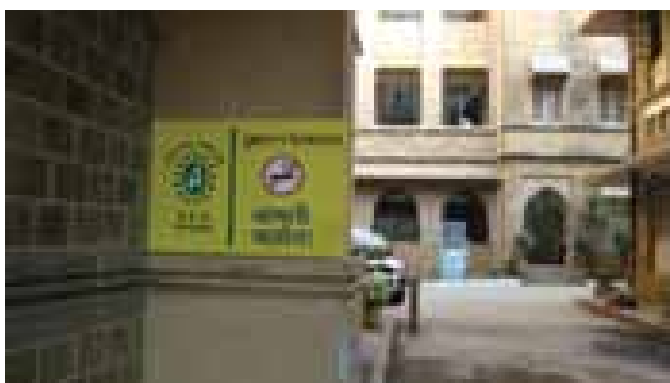
Convocation Ceremony of
Fellowship and Certificate Courses



Use of smart board by 1st MBBS students



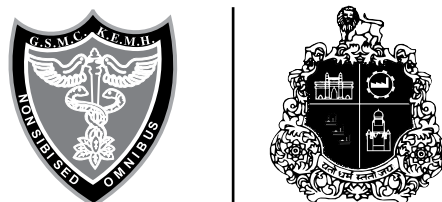
Automated chappati maker



Clean KEM campaign



Cardiac Ambulance



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

ANNUAL REPORT
2010

Concept (Front & Back cover)

Dr. Sanjay Oak

Director -Medical Education and Major Hospitals
Professor of Pediatric Surgery

Publisher

Diamond Jubilee Society Trust

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A c k n o w l e d g e m e n t s

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Hon. Mayor

Smt. Shailaja Girkar
Deputy Mayor

Shri Sunil Prabhu
Leader of the House

Shri Rajhans Singh
Leader of the Opposition

Shri Rahul Shewale
Chairman-Standing Committee

Smt. Ashwini Mate
Chairman-Public Health Committee

Shri Parshuram (Chotu) Desai
Chairman-Works Committee (City)

Shri Anil Pawar
Chairperson - Ward Committee

Shri Subodh Kumar
Municipal Commissioner

Smt. Manisha Patankar-Mhaiskar
Additional Municipal Commissioner
(Western Suburbs)

Shri Aseem Gupta
Additional Municipal Commissioner
(Eastern Suburbs)

Shri Mohan Adtani
Additional Municipal Commissioner (City)

Shri Rajeew Jalota
Additional Municipal Commissioner (Projects)

Shri Rajendra Vale
Deputy Municipal Commissioner
(Estate & General Administration)

Shri Sanjay (Nana) Ambole
Municipal Councillor



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

The year 2010 was marked by several achievements. These have been in diverse areas with the patient at the centre. The automated chapati/roti maker brought smiles on the faces of the kitchen staff and patients. The new look Orthopedic outpatient department, the new look Journal of Postgraduate Medicine (now among the top ranked Indian journals), launch of the International Journal of Ayurveda Research, a second functioning cath lab, a brand new automated biochemistry analyzer in the emergency services and recognition of the Department of Neonatology as a “Collaborative Centre for facility based newborn care” by the Government of India ensured that the institute continued its march towards excellence. The liver transplant program was initiated to provide an affordable treatment option for those in need without the necessary resources. This was supported by munificent donations and huge support from the MCGM and that made it possible. The clean KEM campaign to promote and inculcate awareness about keeping the hospital and surroundings clean was yet another milestone. The medical humanities cell was launched to ensure the medical students both undergraduate and postgraduate imbibe the values of empathy, compassion, effective communication and professionalism along with regular medical training.

Where do we go from here? Plans for 2011 are already gathering momentum. These include a readying ourselves for the new MCI plans, a fellowship in Family Medicine, new DM courses in pediatric and cardiac anesthesia and acquisition of instruments like digital radiography and a 64 slice CT scanner. However at the end of the day, as several thousand patients walk through these hallowed portals each year with hope in their hearts, it remains 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.

Sanjay Oak

Director - Medical Education and Major Hospitals

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Dr. Padmaja Marathe

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• **Community Care**

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• **Looking Ahead**

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• **Publications**

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• **Research & Collaborations**

Dr. D.G. Shenvi

• **Support Services**

Dr. Nithya Gogtay

Appendix

Glimpses of History

Contact Information

Editor's Note . . .



At the dawn of 2011, we are ready to embark on another journey and look forward to yet another foundation day. It is again time to take stock and look at the year that was- what was achieved, what went wrong, where could we improve and where do we go ahead from here. This annual report in its individual chapters looks at the work, the teaching, the research, publications, awards, achievements and much 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 in due to Dr Sanjay Oak, Director- Medical Education and Major Hospitals 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- Gita Nataraj, Sunil Karande, Chetan Kantharia, Padmaja Marathe, Raakhi Tripathi, DG Shenvi, Prabhodhan Potdar and Geeta Phatarphekar. Thank you everyone for meeting the deadline and also staying with me for the last 3 years.

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- Namrata Kulkarni, Dr. Santosh Taur and Purbhasha Nayak for going beyond the call of duty and their relentless efforts at follow up. Lastly thanks are also due to Lakshmesh and Kalpesh at Urvi Compugraphics and Dr Lopa Mehta for painstaking editing, formatting, and inputs in the cover design.

While the compilation has been done over a month with utmost care, its sheer magnitude and diversity 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 2011 with new hope and zest.

A handwritten signature in black ink, appearing to read 'Nithya Gogtay'.

Nithya Gogtay

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

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

Vital Statistics

Annual Workload of KEM Hospital	
Description	Year 2010
Bed Strength	2,288
Total No. of Admissions	83,953
Daily Admissions (average)	230
OPD Attendance	6,43,033
Daily Average OPD Attendance (New Patients)	2,136
Old patients	10,87,204
OPD attendance (average)	5,748
Total No. of Surgeries	55,789
Major	25,647
Minor	30,142
Endoscopies	7,854
Deaths	7,186
Death Rate	8.56%
Total Attendance in Casualty	2,42,489
Medico Legal Cases	35,005
Inpatient days	5,49,438
Average Bed Occupancy	84%
Average ward stay	6.54 days
Total no of Deliveries	6,527

Human Resources

K.E.M. Hospital Staff

Medical Staff

1. Director (ME&MHs)	1
2. Deputy Dean	2
3. Assistant Dean	3
4. AMO	18
5. Residents	690

Superior Staff

1. Administration	167
2. Engineer & Maintenance	32

Para-Medical Staff

330

Nursing Staff

950

Student Nurses

339

Labour Staff

Permanent

1457

Badlee

300

Seth G.S. Medical College

Full Time Teaching Staff

1. Professor	85
2. Associate Professors	121
3. Lecturers / Tutors	176

Honorary Teaching Staff

16

Superior Staff

1. Head Clerks	9
2. Clerical Staff & R.A.	90
3. Scientific Officers	2
4. Laboratory Technicians	22
5. Laboratory Assistants	27
6. Laboratory Attendants	21
7. Labour Staff	128

Undergraduate Medical Students

1013

School of Physio & Occupational Therapy

1. BO Th	40
2. BP Th	40

Post Graduation

1. MD/MS	185
2. DM/MCh	46
3. MSc by paper	12
4. MSc by Research	23
5. MO Th	20
6. MP Th	20
7. PhD	22

Medical Diploma

1. DA	16
2. DVD	2
3. DPH	2
4. DMRD	5
5. DMLT	10
6. DGO	12
7. DCH	12
8. DD	1
9. DO	3

Fellowships & Certificate Courses

30

B u d g e t

Year 2009 - 2010

Seth GS Medical College

	Account Head	(In Thousands)
	Establishment Expenses	
1	Basic Pay (Supervisory and Subordinates)	176697
2	Incentive Bonus (Supervisory and Subordinate)	1969
3	Basic Pay (Labour, Technical & Others)	17478
4	Incentive Bonus (Labour, Technical & Others)	1741
5	Dearness Allowance (Supervisory and Subordinate)	111097
6	House Rent Allowance (Supervisory and Subordinate)	67017
7	Conveyance Allowance (Supervisory and Subordinate)	9
8	Leave Travel Assistance (Supervisory and Subordinate)	3882
9	Transport Subsidy Allowance (Supervisory and Subordinate)	25756
10	Municipal Medical Allowance (Supervisory and Subordinate)	1079
11	Other Allowances (Supervisory and Subordinate)	37354
12	Dearness Allowance (Labour, Technical & Others)	8686
13	House Rent Allowance (Labour, Technical & Others)	6825
14	Conveyance Allowance (Labour, Technical & Others)	43
15	Leave Travel Assistance (Labour, Technical & Others)	864
16	Transport Subsidy Allowance (Labour, Technical & Others)	3062
17	Municipal Medical Allowance (Labour, Technical & Others)	928
18	Other Allowances (Labour, Technical & Others)	245
19	Leave Encashment	4253
20	Stipend of Interns	8805
	Total Establishment Expenses	477790
	Administrative Expenses	
1	Property Taxes / Municipal Taxes	685
2	Office Electricity Expenses	12700
3	Official Telephone Expenses	475
4	Mobile Phone Expenses	20
5	Postage Expenses	100
6	Reference Books and Journals	9440
7	Stationery	30
8	Consumables	75
9	Photocopying expenses	30
10	Conveyance	30
11	Membership fees for various organisations / associations	2000
12	Ceremony / Events Expenses	50
13	Miscellaneous Administrative Expenses	255
	Total Administrative Expenses	25890
	Operation and Maintenance Expenses	

	Account Head	(In Thousands)
1	Clothing	10
2	Radio Isotope Materials	5000
3	Laboratory equipment	250
4	Diet and Nutrition Supplements	200
5	Linen	5
6	Chemicals	500
7	Instruments	1485
8	Equipment	500
9	Ayurvedic Medicines	250
10	General Civil Repairs - Hospitals / Health	6000
11	Consumption of Stores / Spares - Hospitals / Health	100
12	General Civil Repairs - Staff Quarters	6000
	Total Operation and Maintenance Expenses	20300

K.E.M. Hospital

	Total
Expenditure	
Establishment	1794683
Contingencies	22073080
Drugs & Medicine	177420757
Diet	11565189
Repairs & Maintenance	201246553
Stores	46373367
Total	1082597376

Achievements and Highlights

Achievements and Highlights

Anesthesia

- The first Live Donor Liver Transplant in MCGM was conducted successfully on 22nd September, 2010. The Anaesthesia team comprised Dr. M. Garasia, Dr. Prerana Shroff, Dr. N. Dave, Dr. S. Gvalani, Dr. N. Kotak, Dr. Yogita Patil, Dr. Manish K. & Dr. Vijay P.
- 1 year fellowship course started with approval from MUHS – Cardiac Anaesthesia, Neuro Anaesthesia, Paediatric Anaesthesia.
- Workshop on breathing circuits at Tata Hospital ARC – 2010 – Dr. Anita Shetty.

Anatomy

- Anatomy Quiz – The department conducted the first “Intercollegiate quiz for 1st MBBS students. Students from Topiwala National Medical College, Mumbai Central, Lokmanya Tilak Medical College, Sion and Grant Medical College, Byculla participated in the quiz
- The department has started a “Book Scholarship” award under the sponsorship of Wolters- Kluwer for two meritorious and economically deserving students
- New method of teaching Microanatomy: The microanatomy slide pictures are captured via the Trinocular Research Microscope (TRM) and projected on the 4 LCD monitors and salient features of the slide explained to the students before the microanatomy practicals

Biochemistry

- Conference under the aegis of Association of Clinical Biochemists of India, ACBICON – 2010: was hosted by the Department of Biochemistry at World Trade Centre; attended by 900 delegates, 20 International speakers.
- Commissioning of New Automated Biochemical Analyser in E.M.S. Laboratory
- 6th Certificate course in Good Clinical Laboratory Practices.
- Collaboration with NIRRH & IIT Mumbai.

Cardiology

- A functioning 2nd Cath Lab in which both diagnostic and interventional procedures are done.. The number of procedures done this year has already touched a record high of 2500.
- The Intravascular Ultrasound (IVUS) machine, which is extremely useful in complex coronary interventions like left main stenosis, bifurcation lesions, calcific lesions, in stent restenosis, etc.
- We had three poster presentations at the 62nd Cardiological Society of India (CSI) Annual meeting held at Kolkata from 2nd-5th December, 2010.

Chest medicine

- Kits for conducting ELISA based RIDA for detecting and quantifying IgE levels in serum in patients with symptoms suggestive of an allergic diathesis
- Newer treatment modalities for Asthma & COPD in form of dry powder and metered dose inhalers were brought on schedule this year.
- A portable spirometer. (Maestros mediline : model DT spiro) was added to the diagnostic armamentarium.

Clinical Pharmacology

Patient care

- Facilities for determining blood levels of warfarin and metabolite 7 hydroxywarfarin have been set up to maximize benefit in warfarin therapy with an attempt to minimize bleeding episodes and death.
- Genotyping for CYP2C9, CYP2C19, CYP3A4 and CYP3A5 was started
- Therapeutic Drug Monitoring Software and Rabies Software to keep electronic records
- Standardized immunophenotyping for patients with leukemia

Education

- DBT-CRTC workshop (8-12 March 10) – 52 participants (All over India)

- GCP Workshop Organized in collaboration with Pfizer Clinical operations Division, October 15, 2010
- Department of Biotechnology funded fellowship in clinical sciences (1yr) started from 19th Sep 2009. (candidates have successfully completed the course on 31/Dec/2010)
- Launch of Informed Consent video during the 1st National workshop on Research Ethics, 6th October, 2010
- Launch of International Journal of Ayurveda Research. Dr. Urmila Thatte is the Chief Editor.

Research

Phase I study of the safety and tolerability of CDR 134-F194, a novel anti-diabetic drug in normal healthy human volunteers and diabetic patients (CDRI).

A proof of concept, open & prospective clinical study to explore the frequency of single nucleotide polymorphism of P2Y12 gene & its correlation with diff Prakriti types in normal healthy individuals & patients of atherosclerosis.

Funding was received from the Department of biotechnology, Government of India for conducting a study on Pharmacogenetics of anti-epileptic drugs: Role of ABCB1, CYP2C9, CYP2C19 and SCN2A in optimizing therapy

Dentistry

- The department has grown in leaps and bounds from only oral examination and extractions to advanced periodontal, conservative, oral surgical and esthetic dentistry ; from a humble single room visited by an honorary dental surgeon on three days in a week to a full time specialist and two house- officers.

Dermatology

- New edition of undergraduate textbook “Skin Diseases & Sexually Transmitted Infections” on dermatology by Dr Uday Khopkar.
- Dr. Uday Khopkar has pioneered the branch of dermatopathology in the city. This is extremely helpful for correct diagnosis and treatment of patients.
- Dr. Vidya Kharkar, on editorial review board for STI Journal and Journal of asthetics and surgery.
- Dr. Vidya Kharkar, on editorial board for UG text book of IADVL.

Endocrinology

- Radiotherapy in cushing disease - Dr. Rakesh Jalali
- 28 publications in various national and international journals, 7 academic and 8 pharmaceutical research projects ongoing

ENT

- Dr.J.P.Dabholkar was appointed as Honorary ENT surgeon to his Excellency Governor of Maharashtra for period of 5 years. Also Secretary General of FHNO (Federation of Head & Neck Oncologists of India) for duration 2010-2012
- Dr. Ninad Gaikwad Appointed Medical Advisor of IMPACT INDIA FOUNDATION which runs the Life Line Express.

Gastroenterology

- The Department was the first in Western India to establish a special clinic for patients with liver disease. The Liver Clinic was established in 2007. The Clinic is scheduled on Monday morning, and approximately 120 patients are seen in every week. More than 5000 patients with liver disease have been seen in this clinic, and are registered.
- The Liver transplant OPD was started in collaboration with GI surgery services; this OPD is run on Monday afternoon. Twenty-one patients have been listed for live-related / cadaver transplant.

General Surgery

- Participation in MASICON 2010
- Organization of EMS workshops
- Several staff members appointed as MCI Inspectors.

Hematology

- The department also runs a chemotherapy service for patients of hematological malignancies. This is done both on an indoor and an out patient basis as a day care service The Department also runs a Comprehensive Hemophilia Care Center with an OPD every Thursday on the 10th floor at the Department in collaboration with the Mumbai Chapter of Hemophilia Federation of India.

Medicine (Including MICU)

- Dr.A.R.Pazare, gave a Talk on HIV/AIDS and Aurved in AAPCON Mumbai on 3.10.2010, Talk on ASICON Hydrabad Oct.10.
- Training MD Medicine Post graduates in Critical Care Medicine. Also recognized by MUHS for Post MD 1 year Fellowship in Critical care Medicine.
- ICMR collaboration projects; Clinical Trials, Postgraduates dissertation research studies

Microbiology

- The department participated and performed successfully in External Quality Assurance Scheme for microbiologic diagnostic tests conducted quarterly by the Indian Association of Medical Microbiologists, Revised National Tuberculosis Control Programme and QASI..
- Department facilitated the testing of pH1N1 2009 at Reference Molecular Diagnostic Laboratory at Kasturba Hospital
- ICMR approval for ad hoc project entitled “Study on Streptococcal Pyoderma with special reference to the role of Streptococcal Inhibitor of Complement (SIC) and Distinctly Related SIC (DRS) in Post Streptococcal Glomerulonephritis and Chronic Renal Disease”

Neonatology

- Department of Neonatology is recognized as the “Collaborative Center 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, also she has passed International Board Lactation Consultant Examination (IBLCE) held in July 2010 & certified as International Board Lactation Consultant from 2010 to 2015.

Nephrology

- Only centre to offer 24 hours emergency haemodialysis. Number of patients coming for emergency dialysis are increased.
- Department of nephrology is recognized centre for Live Related and Cadaver transplant, crossed 450 transplants.

Neurology

- Only center in Government Hospital offering Deep brain stimulation Done for Parkinson's patients.
- Department has also started Pediatric Neurology Outpatient Department

Neurosurgery

Innovative techniques developed for treatment of complex craniovertebral anomalies including basilar invagination, chiari malformations and atlantoaxial dislocations. Plate and screw fixation of C1-C2 junction and distraction of the craniovertebral junction by spacer devised in the department has revolutionized treatment of these disorders.

Extensive experience in the treatment of complex tumors that include trigeminal neurinomas, foramen magnum meningiomas, sphenoid wing meningiomas and cerebellopontine angle tumors.

Cerebrovascular surgeries, epilepsy surgery, stereotactic surgeries, image guided neuronavigation, pediatric neurosurgery and skull base surgeries are specialized expertise offered by the Department.

The Department has acquired the latest Ultrasonic suction apparatus (CUSA), and C- arm for intraoperative radiography and angiography and neuroradiological endovascular interventions. Recently the latest Zeiss operating microscope Pentero, Erbe cautery machines and Martin Operation Theatre Lights with camera have been added to the operation theatre.

Nursing

- School of Nursing K.E.M. Hospital, Established in 1926 Nursing Training started with – 1st Batch of 16 students Nurses and this Nursing Course was recognized by “B.P.N.A. (BOMBAY PRESIDENCY NURSING ASSOCIATION). Now the Nursing Department is having highest strength i.e. 887

Obstetrics & Gynaecology

Patient Care

- Patient care – Indirect benefits by improving knowledge and skills of health providers through “Saving Loves” workshops

(Dr. N. M. Mayadeo)

- In charge of Parent to Child Transmission Prevention and STI (MDACS at KEMH (Dr. P. Y. Samant)

Education

- Conducted 15 days USG workshops for FOGSI from 31/5/10 to 14/6/10 (Dr P.K. Shah)
- Education, Training of Medical Officers and Paramedical Staff (Dr. N. M. Mayadeo)
- Coordinated Launch of Medical Humanities Ethics and Justice in medical teaching workshop on 22nd November 2010. (Dr. P. Y. Samant)
- Conducted one day Sexuality and STI training for FYRs in Ob Gyn with MDACS on 6th October 2010 (Dr. P. Y. Samant)
- Organized Live Operative Workshop on Minisling (Miniarc) & Prolapse Treatment (Apogee & Perigee), Oct 2010, under the auspices of Mumbai Obstetric & Gynaecological Society and Mumbai Urological Society, October 2010 (Dr. A. R. Chauhan)
- Attended the 13th Biennial Conference of the International Gynaecological Cancer Society in Prague, October 2010 (Dr. A. R. Chauhan)

Research

- Ongoing, to study the impact of training: ICMR HRRC successfully conducted a series of workshops in collaboration with MOGS, NRHM on "Saving Lives" in tribal areas in Thane and Raigad Districts where over 500 medical officers, health workers and ANMs were trained for Emergency Obstetric Care EOC, cardiac resuscitation and newborn care and care of low birth weight babies in resource poor settings (Dr. N. M. Mayadeo)

Occupational therapy

- The department serves all kinds of acute, sub acute and late rehabilitation care. Along with in-patient care the department offers services to the out patient departments catering to patients from different specialty areas like - Orthopedic, Psychiatry and Child Guidance Clinic, Cardiovascular and Pulmonary, Plastic Surgery, Diabetic, Endocrinology disorders and Obesity, Neurological disorders, Arthritis, Autistic and Cerebral Palsied children, other Pediatric Neurological conditions and O.T. Care in Neonatology, Hematological conditions like Hemophilia, Hospice care in leukemia's and Gerontology.

Ophthalmology

- Dr. A. S. Ahuja, was appointed as President of full time Teachers Association of K.E.M.Hospital. Also as a Chairperson of Scientific committee of I.M.A

Orthopedics

Department of Orthopaedics "In search of excellence" has protocolled the patient management in subspeciality of spinal surgery,arthroplasty and arthroscopy.

Department also has Three theatre complexes:

- *Routine Orthopaedic Operation Theatre* : Two theatre rooms (both with laminar flow).
- *Joint Replacement & Spine Surgery Theatre*: Total renovated State of the art is exclusively for Joint Replacement & spine surgery theatre.
- *Orthopaedic Trauma Services Theatre*: Two operating rooms located in the Emergency Medicine Services Complex.

Pathology

- Up gradation & Automation of the Surgical Pathology Cytology, Cardiovascular pathology and Hematology Departments for better services and timely delivery of reports
- Department of Pathology has regular meetings with clinical departments (Endocrinology, Gastroenterology, Nephrology, Cardiac Surgery, Chest Medicine etc) for discussion on problem related and interesting cases, to further knowledge and better patient care

Pediatric surgery

- Acquisition of high frequency oscillatory ventilator

Pediatrics

- Learning Disability Clinic started on 1st April 2010 to assess children having poor school performance; 316 children were referred and assessed by the clinic.
- The department has started offering free anti-retroviral therapy (ART) to HIV-infected children under the Government of India/ National AIDS Control Organization (NACO) Program. Since August 2005, 191 children have been put on ART. The department also participated in the nation-wide plan for recruitment of children for ART.

Pharmacology

- Team of 2nd year MBBS students trained by the departmental members bagged the regional level trophy for pharmacology quiz.
- A Basic course in Experimental & Clinical Research- “Fifth Summer Training Programme 2010” for undergraduate students of science faculty (Biotechnology, Microbiology, Life sciences, Zoology & Botany) was organized at the Department of Pharmacology and Therapeutics, by Dr Tejal Patel and Dr Dinesh Uchil from 8th -18th June 2010.

Psychiatry

- The department of Psychiatry organised the Annual Conference of Indian Psychiatric Society, Western Zonal Branch at Ravindra Natya Mandir, Mumbai.
- A book on “Deaddiction” and a CD on “Suicide Prevention in children” in regional languages was released at the conference

Physiology

- Dr. Munira Hirkani has completed the fellowship offered by GSMC FAIMER regional institute. A Postgraduate degree course in Human Physiology is conducted by the department.

Physiotherapy

- Department has started a Pulmonary Rehabilitation to improve quality of life in patients with chronic Respiratory diseases. Department has also Initiated a Ph.D Programme in physiotherapy at MUHS Nashik.
- Nami Jaisinghani 2nd University in Final B P Th
- University Rank Holders : 2

Toppers in GSMC

	FY BPT	SY BPT	TY BPT	Fourth Y BPT
1 st	Jyoti Panchal	Saloni Parikh	Shailee Shah	Nami Jaisinghani
2 nd	Neha Mary varghese	Sneha Sutaria	Raksha Iyer	Hemali Gandhi
3 rd	Nikita Rao	Kartikee Shirodhkar	Chandan Poddar	Melitta Menezes

Plastic surgery

- Along with Routine and emergency Plastic Surgery, Continuing the Maxillofacial clinic (every Monday, 2.30pm, ward 16) – services provided by plastic surgery and maxillofacial surgeons and Hand clinic, every Thursday, OPD 1.30pm – 3.30pm by Plastic Surgeons, Occupational Therapists and Physiotherapists

Preventive and Social Medicine

- Undergraduate degree in Preventive & Social Medicine was recognized by Medical Council of India after successful inspection and verification of infrastructure and resources for training in the dept. Inauguration of world Breast feeding program was co-ordinated by PSM Dept. with Gynaec., Neonatology Dept. to celebrate World breast feeding week in collaboration with MBPC.

Radiology

- The Radiology department is one of the largest teaching departments in India both in terms of clinical services provided and the Radiology Residency, Fellowship training program and Undergraduate MBBS teaching in various subspecialties of Radiology. The department has one of the best departmental Book Libraries in the country with over 800 volumes and an exhaustive film and electronic teaching media library. Digital Radiography and 64 Slice CT Scanner to be installed shortly. Radio Frequency Ablation of Liver Tumors will be shortly started. Endo Venous Laser Therapy (EVLT) is being extensively used to treat patients with varicose veins.

Surgical gastroenterology

- Department installed modular OT complex along with 2 ICU facilities
- First Successful LDLT and Cadaveric liver transplant was carried out in month of September and October 2010

Transfusion Medicine

- The Department of Transfusion Medicine came into existence on 1/01/2009. This Department is the first in any Government/Municipal Hospitals. The Department has taken a lead in starting a postgraduates course in Transfusion Medicine leading to the award of M.D. in Immunohaematology and Transfusion for the first time in Maharashtra and two students have joined the Department since July 2010.

Urology

Laparoscopy :

- This is the only department in the whole state of Maharashtra which has started and has been regularly performing laparoscopic donor nephrectomy which is consider to be the most difficult and complex urological laparoscopic operation. Department offers laparoscopic procedures to patients. They perform laparoscopic ureterolithotomies, nephrectomies, pyeloplasties, VVF repairs, orchidopexies etc. It has also started the advanced laparoscopic programme along with advanced oncology & reconstructive surgical programme.
- New Service: The department procured 'Revolix Laser Machine' dual Thullium and Holmium laser for comprehensive management of prostate, bladder cancer & stone surgery. We also have 360° flexible uretero renoscope and flexible nephroscope. Laser enucleation of prostate is soon gaining acceptance as new gold standard for prostate surgery. We have done 34 case of THULEP with thullium laser and 44 cases of RIRS (retrograde intra renal surgery) for calyceal stones with good results.
- This is a new service – 1st in Maharashtra offered to BMC patients at no added cost.

Awards and Honors

Awards and Honors

International

1. Dr. Amita Athavale Professor and Head Department of Chest Medicine awarded the Eisenhower fellowship for 2010
2. Dr. Ruchi Nanavati Professor and Head Department of Neonatology passed International Board Lactation Consultant Examination (IBLCE) held in July 2010 and certified as International Board Lactation Consultant from 2010 to 2015.
3. Senior Staff Nurse Rekha Samant from Department of Neonatology was awarded the First International "Neonatal Nursing Excellence Award 2010" by 7th International Conference of Neonatal Nursing & Save The Children USA.
4. Dr. Avinash Supe Professor and Head Department of Surgical Gastroenterology awarded with FAIMER (Foundation for Advancement in International Medical Education and Research), institution fellowship for 2010
5. Dr. S.P. Dandekar Professor and Head Department of Biochemistry was the awardee of FAIMER (Foundation for Advancement in International Medical Education and Research), institution fellowship for 2010, Philadelphia, USA.
6. Dr. Vidya Kharkar Professor Department of Dermatology secured 1st prize in Clinical study of Alopecia areata at Hair India 2010 1st international congress on Trichology at Chennai from 2nd to 5th Sept 2010
7. Dr. Vidya Kharkar Professor department of Dermatology secured 2nd prize in Photocontest – Plica polonica. at Hair India 2010 1st international congress on Trichology at Chennai from 2nd to 5th Sept 2010
8. Ms. Punita Vasant Solanki (Assistant Professor) from Department of Occupational Therapy has achieved the "Thera-Band Academy Instructor Level 3" after participating in Train the Trainer Workshop by Thera-Band Academy at New Delhi on 3rd September 2010 and the certificate is valid till 2nd September 2013.
9. Mr. Hemant P. Nandgaonkar (Assistant Professor) from Department of Occupational Therapy Represented India and attended delegate's council meeting of International Federation of Societies for Hand Therapy (IFSHT) at Orlando, Florida, USA on 23rd June, 2010.
10. Mr. Hemant P. Nandgaonkar (Assistant Professor) from Department of Occupational Therapy Was appointed as a Committee Member on Program / Scientific Review Committee of 9th Triennial Congress of the International Federation of Societies for Hand Therapy (IFSHT) to be held at New Delhi in 2013. (*Appointed for the duration of a single 3-year IFSHT term.*)
11. Three faculty members from Department of Preventive Medicine viz. Dr. K.P. Bhate, Dr. Armaity Dehmubed, Dr. Manisha Srivastav appeared for and successfully cleared the IBLCE certification examination conducted by International Board of Lactation Consultant Examiners on 26th July 2010. Dr. Pankaj Gupta was the first prize winner and Dr. Prateek Bobhate got the 2nd prize.
12. Mr. Balkrishna Swar Won 1st joint prize (Dr. U. K. Sheth) for oral presentation on "Use of PK – PD Modeling to assess the power of Pharmacogenetic study for individualizing the warfarin therapy. In patients on long term anti coagulants at the 4th international conference on innovations in translating technology through Clinical pharmacology, December 2010, Mumbai.
13. Dr. Samir Deolekar received 'G.B. ong' fellowship award for 2010-11 in learning for liver transplant and hepatobiliary surgery at Queen Mary Hospital, Hongkong.

National

1. Department of Neonatology is recognized as the "Collaborative Center for Facility Based Newborn Care" under National Reproductive and Child Health Program, Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF
2. Dr. Avinash Supe Professor and Head Department of Surgical Gastroenterology awarded with AMASI oration at ASI 2010 where he delivered a lecture on "Ergonomics in Laparoscopic surgery".
3. Dr. Milind Tullu, Associate Professor of Pediatrics has been awarded with "Fellow of Indian Academy of Pediatrics (FIAP) 2010". Highest *prestigious honor* declared by the *Indian Academy of Pediatrics* (National Professional Body of Pediatricians). To be conferred on Dr. Milind S. Tullu at PEDICON 2011 (48th National Conference of Indian Academy of Pediatrics to be held at Jaipur in January 2011.
4. Dr. Ravindra Bapat delivered the following orations:
 - o Asiatic society Oration-Mumbai
 - o HR Tata Oration-Karad
5. Dr. Santosh B. Salagre of Department of General Medicine was awarded Fellowship of Indian College of Physicians "FICP awarded to at Convocation ceremony at in APICON 2010
6. Dr. Santosh B. Salagre of Department of General Medicine was Awarded Post Graduate Diploma Hospital and Health Care Management (PGDHHM) And Post Graduate Diploma in Medico legal Systems (PGDMLS) By Symbiosis Centre of Health Care, Pune

7. Dr. Siddhi Chikhalkar of department of Dermatology secured 3rd prize in mNAPSI for assessment of Nail Psoriasis-at AIIMS, New Delhi, National CME on 10th April 2010
8. Dr. Gaurav Garg of department of Dermatology secured 3rd prize in mNAPSI for assessment of Nail Psoriasis- AIIMS, New Delhi, National CME on 10th April 2010
9. Dr. Rameshwar Gutte of department of Dermatology secured Special appreciation award for poster presentation in Dermacon 2010 at Lucknow
10. Dr. Rameshwar Gutte of department of Dermatology secured Second prize for poster presentation in histopathology conference, Bangalore
11. Dr. Shekhar Haldar of department of Dermatology secured Special prize for poster presentation in histopathology conference, Bangalore
12. Dr. Vijayasarithi D.M. Resident of Department of endocrinology was awarded Sushrutha award (2nd best paper prize) for her scientific paper entitled : Diagnostic performance of plasma free metanephrines in the diagnosis of Pheochromocytoma/ paraganglioma at ESICON – 2010
13. Dr. Vijayasarithi D.M. Resident of Department of endocrinology was awarded A R Seth award (5th best paper) for her scientific paper entitled : Unusual vascular abnormalities associated with pheochromocytoma at ESICON – 2010
14. Dr. Varsha Karande Patil D.M. Resident of Department of endocrinology was awarded Sushrutha award (2nd best paper prize) for her scientific paper entitled “Phenotypical and radiological correlation in patients with idiopathic Growth Hormone DeficiencyHormone.” at ESICON – 2010
15. Dr. Nalini S. Shah Professor and Head Department of endocrinology was Elected as President of Indian Society of Pediatric and Adolescent Endocrinology for year 2009 to 2011.
16. Residents from Department of Gastroenterology were awarded both 1st and 2nd prize at ISGCON 2010 –Hyderabad.
17. Dr. Avinash Supe Professor and Head Department of Surgical Gastroenterology appointed as Chairman of DNB Super specialty Board.
18. Dr. Avinash Supe Professor and Head Department of Surgical Gastroenterology appointed as Member of the MCI reconstituted Board of Specialty
19. Dr. Ruchi Nanavati Professor and Head Department of Neonatology appointed as Member of the MCI reconstituted Board of Specialty in Neonatology for drafting / updating the curriculum for DM Courses in the specialty of Neonatology.
20. Dr. Shruti Parikh, Resident under Dr P.K. Shah won 1st Prize for Poster Presentation on “AV Malformation in Gestational Trophoblastic Disease” at MOGS Annual Conference, December 2010.
21. Dr. N.M. Mayadeo Awarded the MOGS Dr. Ganatra Charitable Trust Award for Social Service for the year 2010 for outstanding services in “Saving Lives” project, conducted by ICMR - HRRC in collaboration with NRHM and MOGS
22. Dr. Sangeeta Ravat received award for best published paper in JIMA for review article on “Refractory Epilepsy” in index Journal JIMA”. Published by Piramal Health Care.
23. Dr. Samir Deolekar received Birla Smarak Kosh Scholarship award for the year 2010-11.

State

1. Dr. Sanjeevani Zadkar, Dr. Sudha Iyyar, of Department of Anesthesia was awarded 2nd prize for paper presentation – Teachers category (MISACON 2010), Nashik.
2. Dr. Rachana Chhabria, Dr. Priti Devalkar, Dr. Sweta Salgaonkar, Dr. Madhu Garasia of Department of Anesthesia was awarded Prize in Poster Presentation, KEM Staff Society Meet, March-2010 Stress for paper entitled Intraperitoneal Installation of 0.25% Bupivacaine in Laproscopic Cholecystectomy, 2nd Prize in Poster Presentation, KEM Staff Society Meet, March-2010 Stress
3. Dr. Rachana Chhabria, Dr. Sunil Satpathy, Dr. Sweta Salgaonkar, Dr. Madhu Garasia of Department of Anesthesia was awarded 2nd Prize in Poster Presentation for Response in Anaesthetologist to Induction of Anaesthesia-at Nair ISA Meet, September, 2010
4. Dr. Rachana Chhabria, Dr. Vaibhav Dongre, Dr. Sweta Salgaonkar, Dr. Madhu Garasia of Department of Anesthesia was awarded 2nd Prize for paper entitled Anesthesia Management in a case of Wegener's Granulomatosis posted for emergency bilateral lower limb amputation, at MASCON 2010 (October) Pawai Mumbai –University
5. Dr. Sandhya Jadhav, Associate Professor of Pediatrics - Presented the scientific paper (Poster) titled “H1N1 infection in children: current scenario” at EMBICON 2010: XII Annual Conference of Indian Academy of Pediatrics Mumbai and Indian Academy of Pediatrics Navi Mumbai, Mumbai, September 4-5, 2010 and was awarded the First Prize.
6. Dr. Sonal Bhatia, Assistant Professor of Pediatrics - Presented the scientific paper (Poster) titled “Idiopathic Pulmonary Hemosiderosis: Alveoli are an answer to Anemia” at MAHAPEDICON- 2010 (Annual conference of the Maharashtra State Branch of the Indian Academy of Pediatrics), held at Kolhapur on 28th November 2010 and was awarded the First Prize.
7. Dr. Sonal Bhatia, Assistant Professor of Pediatrics - Presented the scientific paper titled “Newborn Screening for congenital

hypothyroidism: A prick in time saves the mind” at MAHAPEDICON- 2010 (Annual conference of the Maharashtra State Branch of the Indian Academy of Pediatrics), held at Kolhapur on 28th November 2010 and was awarded the Third Prize.

8. Dr. Abhishek Singh (Resident) from Department of Urology won 1st prize for paper presentation in MUS Quarterly Meet at Lonavala.
9. Dr. Ruchi Nanavati Nanavati Professor and Head Department of Neonatology was appointed as:
 - o EC member of National Neonatology Forum Maharashtra Branch
 - o President of National Neonatology Forum Mumbai
 - o Vice President of Mumbai Breastfeeding Promotion Committee.
10. Students of G. S. Medical College and KEM Hospital from Department of Occupational Therapy were awarded the following prizes at 47th Annual National Conference of AIOTA held on 21st to 23rd January 2010 at Ahmedabad:
 - o First prize in Street Play titled “New Dimensions of O.T.”
 - o First prize in Poster titled “Human Rights & O.T.”
 - o Second prize in Model titled “Healthy child Healthy India: O.T. Perspective”.
 - o Second prize for Solo Singing (Ms. Preetee Sanjay Gokhale)
11. Dr. Jayashree Sharma Professor and Head department of Transfusion Medicine was appointed as Executive committee member of Maharashtra state chapter of ISBTI (Indian Society of Blood Transfusion and Immunohaematology)
12. Dr. Abhay Dalvi Professor Department of General Surgery appointed as
 - o Executive Member of IAGES
 - o Treasurer, Maharashtra Chapter of Association of Surgeons India.
 - o Organizing Secretary of MASICON -2011
13. Dr. Shilpa Durgad (PG student) won the 2nd prize for poster titled ‘concurrent infection of phaeohyphomycosis – a case report’ and the P.G quiz at the Maharashtra Chapter Conference of IAMM, 2010
14. Dr. Esha Khurana resident under DR M.N. Satia at KEM Hospital won prize for presenting a paper on “Maternal Mortality in Hepatitis E patients ” in February 2010 MOGS Conference
15. Dr. Kumkum Mathur, Research Officer, ICMR – HRRC was also awarded the MOGS Dr. Ganatra Charitable Trust Award for Social Service for the year 2010 for outstanding services in “Saving Lives” project.
16. MOGS Appreciation Award for organising successful “Optimizing Perinatal Outcome Conference” to Dr. Nanda Mutalik, Research Officer, ICMR – HRRC.
17. Dr. A.R. Chauhan Coauthor of Best Paper Prize on “ITP in Pregnancy” presented by Dr. Supriya Hambire, resident, at the MOGS Annual Conference, February 2010
18. Dr. P. Y. Samant Best paper prize in miscellaneous category for paper on ‘Sexual Assault Forensic Evidence kit use in MCGM’ at the MOGS Annual Conference, February 2010
19. Dr. Gvalani Delivered Lect. on Prevention of SSI ESIS Hosp. Andheri. 15th Jan 2010

College Awards:

1. Dr. Rashmi Patil of Department of Anatomy was awarded prize for her scientific paper entitled “Perceptions of Undergraduate Students on Use of Flashcards as a Mode of Learning Anatomy” at the “ Dr. Amrit Modi- GSMC award paper session” at the 164th Scientific meeting of Staff society held in November 2010.
2. Dr. Meenakshi Gosavi from Department of Nephrology was awarded 2nd Best Thesis on “A study of quality of life and cost utility between Haemodialysis and Peritoneal dialysis in End Stage Renal Disease”. By D.J.S.T., K.E.M. Hospital.
3. Dr. Mihir Kulkarni from Department of Nephrology was awarded Best paper Burgis Khurshedji award for his paper entitled “A study of quality of life and cost utility in Renal transplantation in resource limited setting”.
4. Dr. Tukaram Jamale from Department of Nephrology received “Best paper” award for “Laparoscopic Vs open Donor Nephrectomy: Recipient’s Perspective” at Staff Society, K.E.M. Hospital, Feb. 2010.
5. Dr. Advait Prakash from Department of Pediatric surgery was awarded 2nd prize in best paper session of staff society meeting.
6. Dr. Sonal Bhatia, Assistant Professor of Pediatrics - Presented the scientific paper titled “Newborn Screening for congenital hypothyroidism: A prick in time saves the mind” for the “Dr. Amrit Modi –GSMC Award Paper Session” at the 164th Scientific Meeting of Staff Society held on 23rd November 2010 and was awarded the First Prize.
7. PG Award Paper Session by Staff Society – KEM Hospital, “Analytical study of children with tuberculosis on Directly Observed Treatment Short course in a tertiary care centre.” Amruta Landge, C.T. Deshmukh, Keya R. Lahiri, March 2010. (Third Prize from Department of Pediatrics.
8. Dr. Smita Galphade from Department of Physiology was awarded First prize in Essay writing at Institutional level - “From Ambition to Aspiration from achieving to becoming”.

9. Late Dr. Dharani's Cash prize of 5000 Rs. Was awarded to Dr. Pinaki Wani for standing 1st in university exam of M.D. Physiology, amongst the students of G.S.M.C.
10. Late Dr. Dharani's Cash prize of 1000 Rs. Was awarded to Menon Saba Samad for standing 1st in Physiology in 1st M.B.B.S. exam conducted by university, amongst the students of G.S.M.C.
11. Late Dr. Sanjeev G. Ghodke scholarship for standing 1st in Physiology in 1st M.B.B.S. exam conducted by university, amongst the students of G.S.M.C. was awarded to Menon Saba Samad.
12. Student Nurse Pawar Rekha G. stood first by securing 411/500 Marks at First year G.N.M. Exam – June 2010
13. Student Nurse Ghadi Sushma Ramesh stood first by securing 439/500 marks. Standing first in maharashtra state at 2nd year G.N.M. Exam – June 2010
14. Student Nurse Amkar Shubhalata Subhash stood 1st at institute level, by securing 503/600 at 3rd year G.N.M. Exam July 2010
15. Student Nurse Abhang Swati Jalindar Final Year Nursing Student topped by Securing 1324/1600 marks Interns Nursing Exam January 2010.
16. Dr. Smita Galphade was awarded First prize in Essay writing at Institutional level - "From Ambition to Aspiration from achieving to becoming".
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19. Late Dr. Sanjeev G. Ghodke scholarship for standing 1st in Physiology in 1st M.B.B.S. exam conducted by university, amongst the students of G.S.M.C. -- Menon Saba Samad.

Foundation Day Awards:

1. Dr. P. Subramanian award was given to Dr. Pankaj Gupta from Department of Preventive and Social Medicine; for best RMO.
2. Dr. Chandrakant Patil award for best field work from Department of Preventive and Social Medicine; was awarded to Dr. Deodutt Suryawanshi
3. Dr. Laxmidevi Menon, senior scientific officer of Department of Chest Medicine was awarded Best employee of the year (Foundation day)
4. Senior Staff Nurse Rekha Samant from Department of Neonatology was Awarded Appreciation award for the services rendered in NICU on Foundation day.
5. Dr. Tukaram Jamale from Department of Nephrology was awarded 1st prize in Marathi Essay competition on Foundation Day – Jan. 2010
6. Mrs. Harinakshi Rai, S.S.O. from Department of Nephrology was awarded for best Scientific Officer
7. Mrs. Sheela S. Neve C.C.T. from Department of Nephrology was awarded for best administrative work
8. Miss. Abhang Swati Jalindar student from Nursing section received Mrs. Sushila U. Sheth Prize for Final year Nursing Student scoring highest (Marks 1324/1600).
9. Miss Shaikh Shahanaj Inayat was awarded for Standing 2nd in Maharashtra state & at institute level in 2nd year GNM/MNC exam.

University

1. Dr. Ruchi Nanavati Nanavati Professor and Head Department of Neonatology was appointed as:
2. Member of Board of Studies of MUHS for Super Specialty Medicine Branches
3. Member of LIC inspection committee of MUHS for Government Medical College, Nagpur.
4. MUHS merit awards to the following students from Department of Occupational Therapy:
 - o First B.O.Th: Ms. Ramangi Padmaj Aras
 - o Second B.O.Th: Ms. Mamta Jagdish Gupta
 - o Third B.O.Th: Ms. Grishma Nirav Kothari
 - o Fourth B.O.Th: Ms. Preetee Sanjay Gokhale
5. MOTH: Ms. Poonam D. Sawant

Patient Care

Patient Care

Anaesthesia:

- Anaesthesiology department catered to 43 operation theater tables located in 15 OT complexes. Anesthesia services were given to about 63,000 surgical patients & the department catered to 25,000 Anesthesia OPD patients for pre-operative evaluation.
- Special post-operative pain relief services and anesthesia intensive care unit
- Anesthesia services were given for workshops conducted in the following specialties: Orthopedic Joint Replacement & Spine Theatre, November 2010.

Anatomy:

- The department contributes indirectly to patient care by providing quality education in Anatomy to medical and paramedical students so that they turn out to be better clinicians

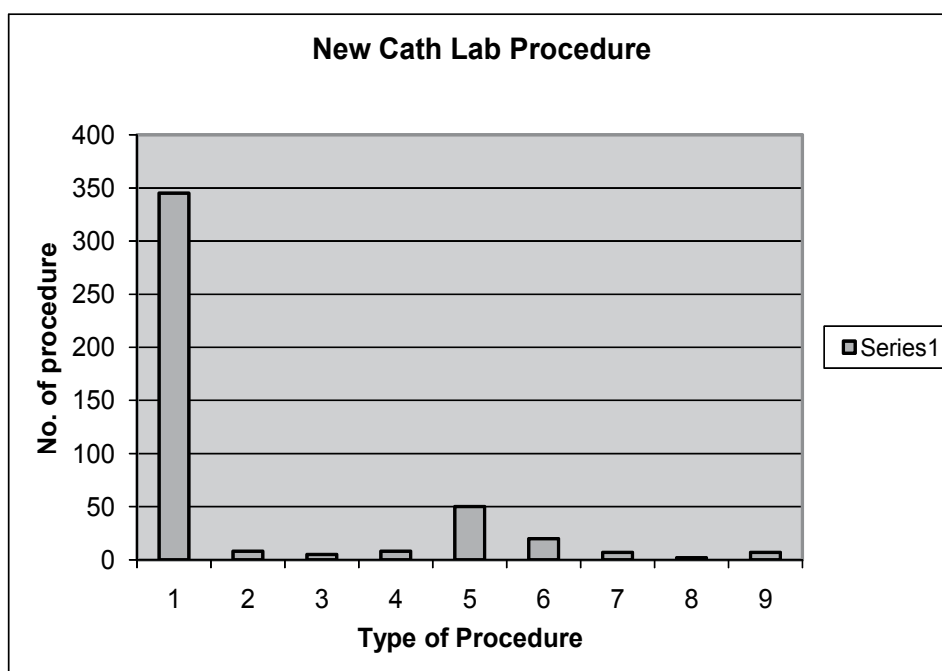
Biochemistry:

- Central Clinical Biochemistry Laboratory (CCBL) –Total number of tests carried out - 20,00,000
- Emergency Medical Services Laboratory (EMS Lab.) Total Number of tests carried out – 4,10,000
- New facility provided in Emergency Laboratory.
- Purchased a new automated Biochemistry Analyzer

Cardiology

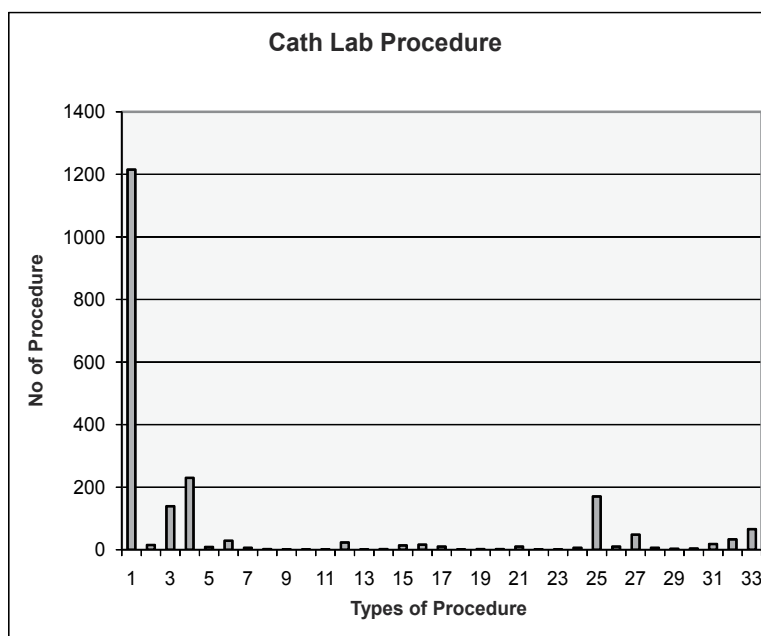
No. of Procedures done in Mobile Siemens Cath Lab : 452

Sr. No.	Types of Procedures	No. of Procedures
1	Coronary Angiography	345
2	Coronary Angiography + EPS	008
3	Coronary Angiography + EPRFA	005
4	Coronary Angiography + PPI	008
5	EPRFA	050
6	PPI	020
7	EPS	007
8	PPI Explantation	002
9	PPI Replacement	007
	Total	452



No. of Procedures done in Cath Lab : 2095

Sr. No.	Types of Procedures	No. of Procedures
1.	Coronary Angiography	1215
2.	Check Angio	0015
3.	Diagnostic Cath	0139
4.	BMV	0230
5.	BMV failed	0009
6.	BPV	0029
7.	BAV	0006
8.	BAV failed	0002
9.	BTV	0001
10.	BAS	0001
11.	VSD DC	0001
12.	ASD DC	0023
13.	ASD DC Failed	0001
14.	ASD	0002
15.	PDA Amplatzer Device Closure	0014
16.	PDA Cocoon Device Closure	0016
17.	PDA TCC	0010
18.	RSOV DC	0001
19.	RSOV Failed	0002
20.	AP Window Device closure	0002
21.	Coarctoplasty	0010
22.	Coarctoplasty failed	0001
23.	Renal Stenting	0001
24.	PTCA	0006
25.	PTCA with stent	0170
26.	PTCA Failed	0010
27.	PPI Implantation	0048
28.	AICD	0006
29.	AICD(Battery Replacement)	0003
30.	Pacemaker Explantaion	0004
31.	Pacemaker(Battery Replacement)	0018
32.	Electrophysiology Study	0033
33.	Electrophysiology Study and Radio Frequency Ablation	0066
	Total No. of procedures	2095

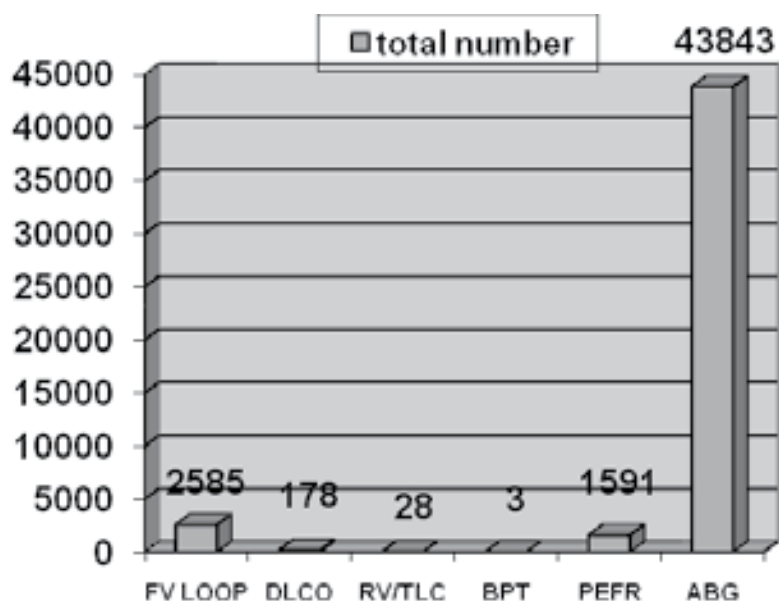


Total No. of patients admitted in ICCU : 1213
 Total No. of patients admitted in Ward 32 : 2973
 CST: Total no. of patients done : 1813
 CD: Total no. of patients done : 4740
 ECG: EMS : 65,000
 CVTC : 16467
 CVTC OPD : New Patients – 10,592, Old Patients – 17,384

Chest Medicine

- The total number of admissions for is 816. Of these, 99 patients required Intensive Care. The Department of Chest Medicine has outpatients Chest clinics on bi weekly basis. The total numbers of new patients seen till date are 5609.

Pulmonary Function Tests 2010	
FV Loop	2585
DLCO	178
RV/TLC	28
PEFR	1591
Bronchoprovocation	3
ABG	43843



	Number of admissions
IRCU	200
WARD	717
TOTAL	917

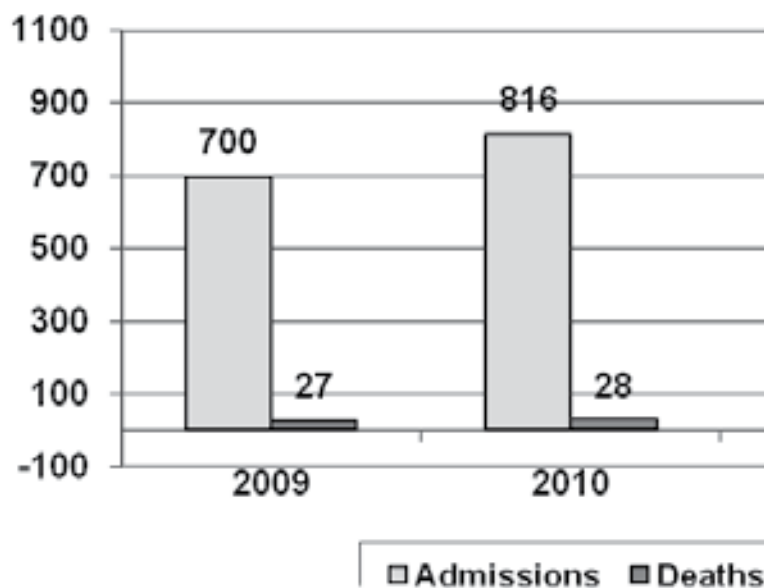
Total admissions 2010- 1/1/2010 to 30/11/2010

OPD	
NEW	5609
OLD	13,995

Mortality rate:

The total number of admissions is 816. 99 patients required Intensive Care. The total number of deaths in 2010 is 28 (till date). The mortality rate is 3.0%.

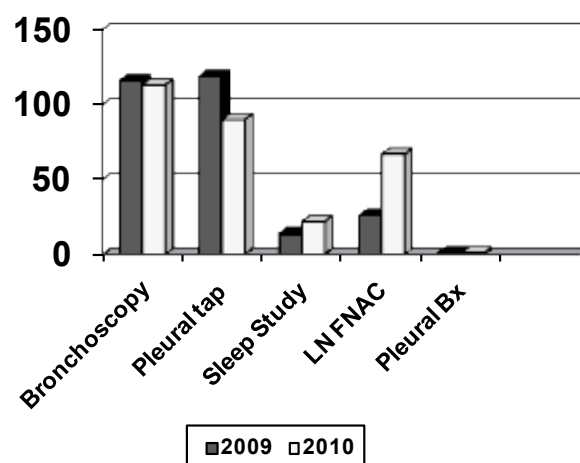
	2009	2010
Admissions	700	917
Ward 32	522	717
IRCU	178	200
Deaths	27	28
IRCU Mortality rate	15%	14%

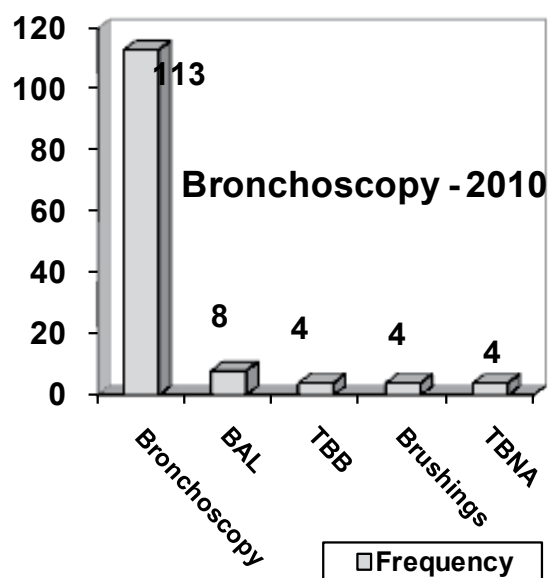


	2009	2010
Total mortality	3.8%	3.0%

Procedures	
Bronchoscopy	113
Pleural Tapping	90
Sleep Study	22

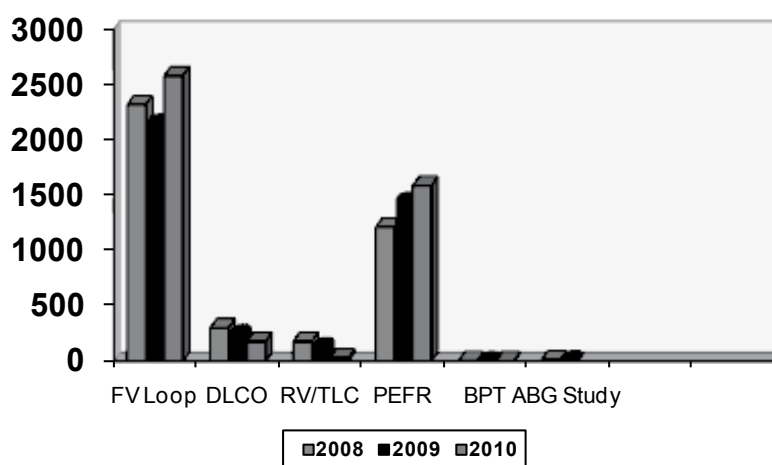
PROCEDURES - 2010





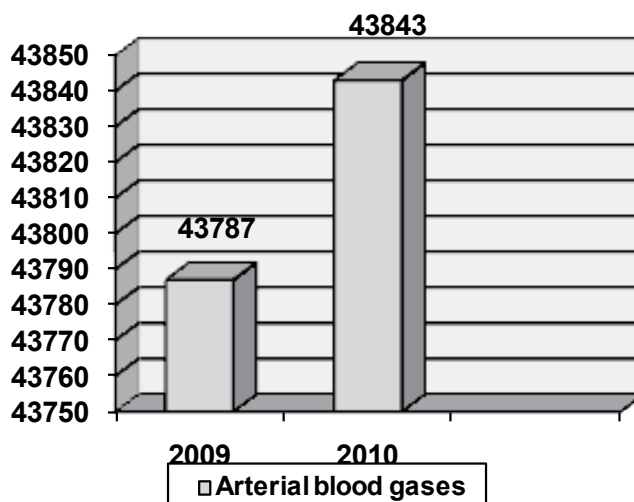
Lymph Node Fnac	67
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PULMONARY FUNCTION TESTS



Pleural Biopsy	1
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Trends of ABG



Transbronchial biopsies (TBB) and Transbronchial Needle Aspiration (TBNA) have been fluoroscopically guided.

Special facilities for patients

- An integrated approach to the lung health of the patients rather than only their disease is what we believe in. On the first visit itself the patient is assessed by the physician, the physiotherapist, the dietician and the social worker when applicable.
- As most of the respiratory diseases are chronic conditions, educating the people about the disease, compliance with medications and appropriate usage of drug delivery devices are of utmost importance. The medical social workers of this department regularly educate and assess the patients.
- Environment plays an important aspect in respiratory cases, so the work and home environment of the patients needs to be assessed in indicated cases. In special cases, a team comprising of a doctor, a social worker and a health visitor visits the patients' home/work environment to assess any environmental aspect acting as a trigger factor for respiratory ailments.
- Diagnostic & therapeutic bronchoscopy services are provided on round the clock basis, along with the expertise required for transbronchial and endobronchial mass biopsies, transbronchial needle aspiration & bronchoalveolar lavage.
- We also perform fibre optic bronchoscopy guided endotracheal intubations for patients with difficult or distorted airway anatomies in various operation theatres.
- DOTS Plus services for treatment of MDR pulmonary patients has been started at Sewree T.B hospital since July 2010.

Bronchoscopy

We have acquired a set of new cytology needles for doing transbronchial needle aspirations mainly useful for diagnosis of thoracic lymphadenopathy.

New Services Added:

- RIDA kits for in vitro allergen testing against common allergens have been obtained. This is very useful in detecting common triggers in asthmatic and atopic individuals.
- The department of chest medicine also has started managing the TB and chest outpatient department in Shatabdi hospital, Govandi every Friday afternoon 2.00 p.m to 4 p.m from 12/11/2010.

Dots Plus services have been started for treatment of MDR T.B patients at Sewree T.B hospital.

Clinical Pharmacology

1. Therapeutic drug monitoring (TDM) services

A total of 2845 patients were seen. There were 1611 follow up patients and 1234 new patients. Blood level estimations were done for phenytoin, phenobarbitone, carbamazepine, carbamazepine epoxide, valproic acid and lamotrigine. In collaboration with the department of cardiovascular and thoracic surgery. 80 patients on stable doses of warfarin were tested for blood levels of warfarin and its hydroxyl metabolite. A total 106 lithium patients were seen (86 follow-ups and 20 new cases).

2. Malaria diagnosis and admissions in ward 24: A total of 17538 slides were screened. 1993 were positive (11.36%) P.vivax- 1840 (92.32%), P.falciparum- 131(6.57%), mixed infections- 22 (1.11%). a total of 38 P. vivax patients and 1

falciparum patient were admitted for clinical trials.

3. New services added
 - o Estimation of levels of warfarin and its metabolite 7 hydroxy warfarin.
 - o Immunophenotyping of leukemia patients

CVTS

Out Patient Services

Four Outpatient Clinics are conducted every week

- Place CVTS Building, Ground Floor (307)
- Days Monday/Wednesday (Dr.AMP Unit)
Tuesday / Friday (Dr.NBA Unit)
- Timing 1.30 pm onwards

New patients as well as follow-up patients are seen in the OPD. The follow up clinics are especially important for those who have undergone valve replacement and need their anticoagulation management under supervision. Till 30th November, 3081 new cases were evaluated for various Cardiac Thoracic and Vascular ailments.

Operative work details

Total Admissions : 1107

Total Surgeries : 954 (Open - 610, Closed -220 Emergency 124)

Dentistry:

OPD six days a week

Dermatology:

- New activities started, any specific noteworthy work including increase in patients.
- Multiplatform harmony laser machine, which has revolutionized the treatment of following untreatable diseases:
- Stable vitiligo, Hirsutism, Acne scars, Psoriasis, Facial Rejuvenation etc.
- Q-switched Nd-YaG Laser machine for Tattoo removal, Nevus of Ota etc
- Phototrichogram study in androgenic alopecia.
- Derma -roller for treatment of atrophic scars.
- Dermatoscopy for various pigmentary disorders
- Peels for acne, skin rejuvenation and pigmentation
- Follicular hair transplantation in androgenetic alopecia and vitiligo

Endocrinology

Quality and Quantum of Patient Care

1. Indoor admission : 199

2. Outdoor patients

	New proforma	Old proforma	New patient	Old Patient	Total
Diab Clinic	593	7479	3009	4675	15756
Thyr Clinic	469	3817	2428	2679	9393
P&G Clinic	704	2639	1187	1079	5609
Total :	1766	13935	6624	8433	30758

3. Total Workload of Laboratory:

Biochemistry Workload 2010 (January to November 2010)

S. No.	Test	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct	Nov	Total
1	Blood Sugar	2084	1872	2108	2012	1702	2053	2040	1946	1833	1905	1848	21403
2	HbA1c(Glycos.Hae)	121	43	61	42	80	78	91	82	99	105	128	930
3	S. Calcium	75	89	86	47	81	98	105	102	105	90	148	1026
4	S. Albumin	75	89	86	47	81	98	105	102	105	96	148	1032
5	Alk Phosph.	75	89	86	47	81	98	105	102	105	96	148	1032
6	S. Phosphorous	75	89	86	47	81	98	105	102	105	96	148	1032

S. No.	Test	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct	Nov	Total
7	S. Creatinine	75	89	86	47	81	77	105	102	108	96	148	1014
8	S. Protein	19	8	0	6	0	6	7	4	1	2	0	53
9	SGO T (AST)	7	0	2	6	0	6	9	10	6	0	11	57
10	SGPT (ALT)	7	0	2	6	0	6	9	10	6	0	11	57
11	Urinary Calcium	38	66	66	32	56	65	61	57	69	67	102	679
12	Urinary Creatinine	39	66	66	32	55	65	61	57	69	67	102	679
13	Urinary Phosphorus	25	61	37	32	53	65	36	31	47	3	31	421
14	S. Magnesium	5	0	12	17	16	9	9	10	11	7	9	105
15	S. Bilirubin (TB+DB)	8	0	2	6	0	0	7	14	0	0	11	48
16	Total :	2728	2561	2786	2426	2367	2822	2855	2731	2669	2630	2993	29568

Hormone Assay Workload 2010 (January 2010 to November 2010)

Sr. No	Test	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Total
1	T3	781	795	875	935	772	746	398	784	759	837	906	8588
2	T4	738	797	886	939	785	752	462	800	795	909	900	8763
3	TSH	1092	1078	1136	1292	995	960	589	1076	928	1152	1207	11505
4	FSH	164	154	189	180	153	191	140	142	145	159	149	1766
5	LH	176	160	189	188	145	192	140	144	149	166	149	1798
6	PRL	150	187	165	197	172	177	108	174	151	191	85	1757
7	Testo	133	129	123	116	110	130	70	112	95	147	140	1305
8	S. Cortisol	123	148	49	142	192	204	134	162	131	161	82	1528
9	PGGH	82	63	74	73	106	66	39	65	83	58	87	796
10	ACTH	15	21	7	24	22	48	15	29	42	27	22	272
11	PTH	88	104	103	83	32	57	57	81	93	119	134	951
12	IGF1	2	2	35	31	33	38	26	38	16	20	34	275
13	IGFBP3	0	0	0	0	0	0	0	0	0	0	0	0
14	AMA	49	60	74	58	57	87	75	80	86	118	80	824
	Total :	3593	3698	3905	4258	3574	3648	2253	3687	3473	4064	3975	40128

Overall highlight of patient care services (numbers of each service)

All services are carried at OPD No. 103, 1st floor old building. EXT: 7317, 7491

Monday: Diabetes OPD-discussion in OPD

Reassessment of old diabetes patients

Tuesday: Diabetes OPD-Clinical Discussion in OPD

Thyroid Clinic

Wednesday: Ward Round-Presentation and Discussion of Ward Cases

Thursday: Diabetes Clinic – discussion in OPD

Type 1 Diabetes Clinic

Radiology meet

Pituitary meet: once in a month on Wednesday.

Here challenging cases are discussed with Neurosurgeons, Endocrinologist, Radiation Oncologist, Radiologist, and Neuropathologist for patient care improvement.

Nuclear Medicine meet : once a month on Wednesday

Nuclear Medicine Physician and Endocrinologist meet to discuss challenging cases

Histopathology meeting: once a month on Wednesday

Friday: Puberty and Growth OPD

Diabetes Clinic – New Cases

Thyroid Clinic

Saturday: Puberty and Growth OPD

(Gestational diabetes cases seen on all days)

ENT

Major surgical procedure – 1698, minor surgical procedures – 1147, total Emergency surgical procedure – 204, New out patients – 23085, Audiograms – 4707, Speech evolution – 2193, Inpatients admission – 2519

Gastroenterology

The Gastroenterology O.P.D. is conducted thrice a week on Monday, Wednesday and Saturday morning. **Number of patients seen**

<i>O.P.D. Patients</i>	
New patients	4220
Follow up patients	9200
<i>Indoor Patients</i>	
Admitted to Gastroenterology wards	1294
Referred patients (Indoor)	3200
Procedures	
<i>Diagnostic</i>	
Upper GI Scopy	4000
Colonoscopy	100
E.R.C.P.	160
Proctoscopy	600
Liver Biopsy	100
<i>Therapeutic Procedures</i>	
Esophageal Variceal Sclerotherapy	185
Esophageal Variceal Band / Loop Ligation	620
Endoscopic clipping for bleeding lesions/ polyps	6
Esophageal Dilatation	300
Esophageal Prosthesis Placement	8
Gastric varices injection with glue	15
Bleeding Ulcer Injection	55
Argon Plasma Coagulation	60
Endoscopic biliary sphincterotomy and drainage	125
Endoscopic pancreatic sphincterotomy and drainage	10
Pancreatic cyst drainage	3
Polypectomy	10
Foreign Body removal	10
Percutaneous endoscopic gastrostomy	4
Rectal Stricture Dilatation	1

Special Procedures

Endoscopies in children are done under general anesthesia: 150

Special Investigations

Esophageal pHmetry was done in 15 patients. Esophageal Manometry was done in 113 patients.

Anorectal manometry: 172 Antroduodenal – 01

Special services for patients: 24-h emergency service, especially for patients with GI bleeds, pancreatitis, cholangitis and liver disease complications

General Surgery

- The unit sees approximately 250 patients in every outpatient. Renders endoscopic service once a week.
- Known for advanced laparoscopic work. major GI procedures and parathyroid surgery

Hematology

- Patients requiring indoor admissions are admitted to Ward 42 on the 10th floor, New Multistory Building.
- There are daily routine and emergency admissions of patients with all hematological disorders, bleeding disorders and other hematological emergencies.

- The department also runs a chemotherapy service for patients of hematological malignancies. This is done both on an indoor and an out patient basis as a day care service.

In Patient Service

Beds: Total - 25 [Allotted].

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

Indoor Service: Ward 42

<i>Month wise</i>							
<i>Admissions/deaths</i>							
	2004	2005	2006	2007	2008	2009	2010
January	76/5	49/1	74/7	66/0	56/3	68/3	52/3
February	58/3	61/2	47/3	39/3	50/3	58/5	52/3
March	73/5	62/4	57/4	58/7	63/4	52/3	52/5
April	54/4	60/2	53/1	58/5	67/6	81/3	59/3
May	52/7	71/5	51/5	48/6	51/8	61/5	50/2
June	55/4	62/2	60/2	45/4	54/8	71/2	48/2
July	57/6	53/5	68/5	60/4	68/4	65/5	90 /1
August	52/2	60/1	60/8	63/9	60/3	71/2	73/2
September	59/5	58/7	55/5	60/6	66/3	48/5	51/-
October	51/1	56/5	59/6	55/3	85/2	75/2	55/4
November	54/5	47/1	49/2	49/7	66/2	58/2	41/3
December	58/7	61/9	55/2	50/2	50/2	61/4	
Total	699/54	700/46	688/50	651/56	736/48	708/37	684/31

Day Care:

- The department runs a day care, for patients to be given treatment on a day care basis.
- This includes patients of:
 - Thalassemia for blood transfusions,
 - Bone marrow failure syndromes for blood & platelet transfusion
 - Hemophilia's & other coagulation disorders for factor treatment and physical therapy
 - Platelet disorders for transfusions
 - Leukemias & lymphomas for chemotherapy, oral, I,V, & Intrathecal.

Day care patients:

Month	No. of patients							
	2003	2004	2005	2006	2007	2008	2009	2010
January	84	114	136	89	107	408	26	308
February	89	113	148	143	144	307	251	438
March	90	143	158	145	129	377	217	400
April	66	109	142	105	153	290	235	356
May	73	93	085	102	122	331	281	336
June	102	97	182	147	143	265	245	361
July	134	71	102	118	144	273	262	287
August	123	102	167	165	204	396	268	249
September	109	128	136	141	186	246	252	270
October	118	121	098	107	279	184	281	301
November	90	125	087	134	283	251	263	239
December	104	154	154	140	200	200	246	249
Total	1182	1370	1693	1536	2094	3528	3061	3794

Medicine:

Overall highlight of patient care serviced (numbers of each service) as under:-

1, General Medicine

New Patients 20786

Old patients	18562
Total patients	39348
2. HIV OPD	
New patients	575
Old patients	3634
Total	4209

AIDS Core Unit

Dean(G) and Director(M.E.&M.H.) Dr.Sanjay oak is the Chairperson of the AIDS Core Unit and Dr. A.R.Pazare is the coordinator. Head of major clinical departments are the members of this unit. Meetings are held every 3 month, various issues like post exposure prophylaxis, Routine HIV testing in the wards, ICTC, training on HIV/AIDS of different projects etc. are discussed in the meetings.

ART Center

It is established in August 2005. Dean(G) and Director(M.E.& M.H.) Dr.Sanjay Oak is the chairperson of the ART Center and Dr.A.R.Pazare is the in charge. It works directly under MDACS/NACO. At present 7000 patients are registered with ART center and 3000 patients are taking treatment for HIV. ART center has 3 Medical Officers, 4 Counselor, 1 Data entry Operator, 1 Pharmacist. 1 nurse, 1servant and 3 NGO persons. Examinations, investigations, treatment , follow up of the patients and management of side effects of drugs and reporting to NACO/MADCS are done at the center.

3. Rheumatology OPD

New patients	1994
Old patients	4939
Total patients	6933

4. Headache OPD :

New patients	1100
Old patients	930
Total	2030

5. Hypertension OPD

In Hypertension OPD, we deal with investigation and management of hypertensive subjects with special emphasis on patients with hypertension at young age, pregnant hypertensive's, elderly hypertensive subjects. In addition to routine management, in hypertension OPD, we have Occupational therapies giving relaxation therapy. We also have patient education exhibition displayed in Marathi for the patients. We also have drug bank for poor and needy patients.

New patients	: 0711
Old patients	: 5257
Total	: 5968

6. Geriatric OPD

New patients	: 70
Old patients	: 272
Total	: 342

7. MICU

Total MICU Admission	: 1008
Total Deaths	: 435
Mortality	: 43.1%

8. EMS

11568 OPD	
ICU admissions.	628

New Services

Dr.R.N.Sahay, Associate Professor

1. Incharge of Monsoon Related disease Control.
2. Running of Fever OPD Fever Ward more than 16,000/- patients.
3. Unit In charge of Medicine ward 9 & 4A.

Dr.Raminder Singh, Professor of Med.

"Swine Flu ward/ICCU" 48 De in Year 2010

Equipped with ventilators

Dr. S.B.Salagre, Associate Professor

Presence of Occupational Therapist in HT OPD for training Regarding Life Style Modification in hypertension.

MICU

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

- Total 23 ventilators - to provided noninvasive & invasive mechanical ventilation to Acute lung injury/ ARDS/ Respiratory/ depression/ Cardio respiratory failure patients.
- Number of patients on ventilator approximately- 450.

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

Plasmapheresis:

- To patients of Gullian Bare Syndrome, Myasthenia Gravis, TTP, Polymyositis, both MICU patients & Medical ward patients with help of plasmapheresis pump 5-10 per week.

Renal replacement therapy is given by following :

- CAVH, CVVHDF on CRRT machine available in MICU. Total patients treated with this modality 25. Total procedure done 172.
- 2Decho done by portable, USG + Echo machine on MICU & General Medical ward patients: 285.
- Bronchoscopy: Therapeutic, Diagnostic bronchoscope and fiberoptic bronchoscope: total 42
- Percutaneous tracheostomy: total 15

New facilities provided:

- Interactive MICU daily rounds with faculty from microbiology department including Assist Prof. Senior resident
- Interactive rounds with faculty of physiotherapy department especially for proper Chest PT, Respiratory muscle, strengthening exercises.
- 10 new Multipara Monitors & 1 USG & 2D Echo Machine for Critically ill patients.

Microbiology

The clinical bacteriology division processed approximately 50000 specimens during the year. Approximately 27000 isolates were tested for their susceptibility pattern. Routine detection for meticillin resistance, ESBL, Amp C and Carbapenemase is established. The division also proactively identified and limited the spread of hospital acquired infections in different patient care areas. The mycobacteriology division processed 30000 specimens for microscopy and 1000 for culture. The parasitology division processed 9000 specimens which included stool routine microscopy, malaria antigen and opportunistic parasites. The mycology division processed 3000 specimens for fungal culture. The ICTC division processed more than 28000 sera for HIV antibodies and 4000 sera for reagin antibodies. The virology division processed 13000 and 6700 specimens for detection of HBsAg and HCV antibodies respectively. The immunology division performed CD4 estimations on more than 11000 blood samples. The serology division processed more than 22000 blood/ serum/ CSF specimens. Designated sera were also sent to the molecular diagnostic reference laboratory at Kasturba Hospital for PCR in cases of Leptospirosis and Dengue. The molecular diagnostic laboratory performed viral load estimations on 25 patients referred by ART centre.

Neonatology

Neonatal Intensive Care Unit : 37 bedded

Sections	Type of Services	Cost strength
A	Inborn aseptic neonatal care area	13
B	Inborn septic & out born neonatal care area	11
C	Intermediate care area	09
V	Ventilatory care area	04

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 offsprings of the donor mother.

Kangaroo Mother Care Center : The department is selected as the center of excellence for initiating Kangaroo Mother Care for Low Birth Weight babies in India, the first & one of the three centers in the country, Low birth weight babies discharged from NICU are regularly followed up here for growth, nutritional status, neuromotor, neurodevelopmental & neurosensory assessment & early intervention therapy is institutes when required.

II. Quantum of patient care : (Up to November 2010):

Total no. of babies born	6112
No. of LBW babies	2771
NICU admissions	1554
Preterms	1150
Ventilated neonates	268
No. of KMC recipients	900

Nephrology:

Nephrology Department provide outdoor, indoor emergency care for patient suffering from renal diseases. Facilities available are clinical nephrology, dialysis, transplantation and laboratory.

Total No of OPD patients :

Indoor patients	: 1315
Referred patients	: 7951
Kidneys biopsies	: 79
Peritoneal dialysis	: 36
C.A.P.D.	: 6
Haemodialysis performed	: 6218
Kidney transplants	: 19

Neurology

- Overall highlight of patient care services –OPD & Indoor patient services
- Trends – Procedure wise for each procedure –

EEG – Paper EEG	185
Video EEG – Inter-ictal	179
Ictal	987
EMG–nerve conduction	129
- Special services for patients-Pre-surgical evaluation of refractory Epilepsy
- Special facilities for patients – Botulinum toxin for movement disorder.

New facilities provided –

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

Mortality rate -

Year	Neuro Pts	Epilepsy Pts	Indoor Pts	Paper EEG Done	EMG Done	Video EEG done
2008 New	6500	3600	950	575	560	861
Old	8000	5000				
(approx.)						
2009 New	5992	3761	862	478	459	1080
Old	7815	4915				
2010 New	5034	3561	866	185	129	1166
Old	6900	13291				

Neurosurgery

- The department is a referral centre for neurosurgical patients from through-out western India and also from other parts of the country.
- The highlight of management is that there is no waiting list for surgery. All patients needing surgery are operated within 2 days of admission. All the technological equipment necessary to perform any kind of complex neurosurgery procedure is available in the department. Specialization in sub-divisions of neurosurgery is encouraged. The department now wishes to enhance the capabilities by incorporating endovascular techniques within the framework of the department.
- Approximately 2000 operations are done by the departmental staff. Of these there are 450 operations done for head trauma in the general surgery operation theatre by the neurosurgical staff. 1480 surgeries were performed in the neurosurgery operation theatre.
- Video EEG and neuropsychological assessment available for evaluation of epilepsy patients.

- Radionics CRW Stereotaxy apparatus available to perform deep brain biopsies and functional neurosurgery.
- Brainlab Neuronavigation system installed for image guided cranial and spinal surgeries.

Nursing

We have specialized clinical nurses in various field such as Pediatric, Neonatology, Psychiatry, Stoma therapy, Oncology, Burns, Operation Theater Technique, Diploma in Hospital Administration Diploma in Nursing education & Administration, I.C.U. Nursing and B.Sc. Nursing,

All they are place in respective department, some Nursing Tutors have also specialization with Master Degree in Pediatric Nursing, Psychiatric Nursing and Community Health Nursing. Cardio-Vascular Thoracic Nursing.

Total Nursing Staff present in year 2010

Matron	: --
Sr. Asstt. Matron	: 2
Jr. Asstt. Matron	: 4
O.T. Supdt.	: 2
Ward Sister	: 99
Staff Nursing	: 714
A.N.M.	: -
House Keeper	: 1
Ward Assistant	: 26
Theatre Asstt.	: 12
Principal	: 1
Sr. Tutors	: 26
P.H.N.	: -

Above all personnels are involved in nursing administration and patients care service & which is main backbone of hospital. As per Indian Nursing Council recommendation all student nurses are posted in all the clinical areas Of hospital in rotation and giving quality care under the supervision of Sr.Tutors, Ward Sister, Trained Staff & Doctors. All the trained Nursing Staff provides patients care in different shift duty for 24 hours. Special service also provided in emergency in disaster management during Monsoon and Bomb blast by all trained staff nurse and student nurses.

Obstetrics & Gynaecology

Total No. of confinements	6527
Total major surgeries (Obstetric OT)	2011
Total minor surgeries (Obstetric OT)	1290
Total surgeries (Gyn OT)	547
Oncosurgeries	4

Occupational Therapy

Specialized OPD Interventions:

- Obesity and Cardiac Risk Modulation clinic at CVTC, Occupational Therapy Department. Room No 4
- Rheumatoid Arthritis Clinic at Orthopaedic Centre O. T. OPD No 412 and at KEM Hospital Building, OT OPD No 79
- Pediatric NDT and Kangaroo Care: KEM OTD OPD No 79
- NICU clinic at Multistorey Building, Ground floor.
- Sensory Integration Clinic: Orthopaedic Centre, O. T. Department, First floor
- Back School Clinic: Orthopaedic Centre, O. T. Department, First floor
- Musculoskeletal management for hemophilia: Ward 42 & CVTC O. T. OPD Room No 4
- Adult & Pediatric Orthopedic Rehabilitation: Orthopaedic Centre, O. T. OPD No 412
- Burns, Plastic Surgery and Specialized Hand Clinic: O.T. OPD No 260, Next to ward 16, 2nd Floor, KEM Hospital Building.
- De-addiction: Intervention and Fitness: Orthopaedic Centre O. T. OPD Ward 40, Second Floor.
- Neuro rehabilitation and Movement Disorder clinic: O. T. OPD in Ward 10, Second floor
- Psychiatry: Intervention and Work Fitness at KEM Hospital Building O. T. OPD No 79

- Child Guidance Clinic at KEM Hospital Building O. T. OPD No 79
- Hypertension Clinic at KEM Hospital Building O. T. OPD No 79

Workload:

Workload	Outpatient Dept	In Patient Care	Intensive Care
Patients	9,273	14,996	1,041
Visits (Treatment Sessions)	35,910	92,088	4,447

Opthalmology

This department has an out-patient department & operations are being performed in operation theatre on all days. It has a special Ward for Keratoplasty patients. It gives complete Eye care in the for of various Ophthalmic procedures like contact lens, intraocular lens implantation, keratoplasty, fluerescin angiography & vetreo retinals surgery, diagnostic facilities with ultrasound, slit lamp, perimeter & fundu's cameras are available for out patients and for these specially referred. There is a well established "Eye Bank" with facilities for enucleation, storages use of the balls. This department is a well known centre for diseases of the posterior segement of eye. It has facilities for colour and fluerescin in fundu's photography. Photocoagulation is presently done with the Double Frequency Yag Laser. Vitreo Retinal Surgery is Regularly done in the Department.

Total Operations : 2800

Total Admissions : 3000

Orthopaedics

We have the facilities of treating fresh and neglected musculoskeletal trauma in all age group. We treat congenital, inflammatory, infective, neoplastic and degenerative pathologies affecting musculoskeletal system. We have skill and equipment to treat simple & complex trauma, spinal surgery, arthroplasty, arthroscopy and paediatric orthopaedic surgery.

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

Services Offered

Complex traumatology

Spine surgery

Arthroplasty

- Arthroscopy & Sports Medicine
- Ilizarov & limb deformity correction
- Paediatric Orthopaedics
- Orthopaedic Oncology
- Shoulder & Elbow subspecialty services

Operating rooms:

Three theatre complexes:

1. *Routine Orthopaedic Operation Theatre* : Two theatre rooms (both with laminar flow).
2. *Joint Replacement & Spine Surgery Theatre*: Total renovated State of the art is exclusively for Joint Replacement & spine surgery theatre.
3. *Orthopaedic Trauma Services Theatre*: Two operating rooms located in the Emergency Medicine Services Complex.

Services:

- Daily OPD [New Patients 8:30-1:00, Follow-up Patients 1:30-4:30]
- 24 hr emergency services [OTST in EMS complex]

Pathology

Annual Workload

- a. Surgical Biopsies & Excisions 700
- b. Cardiopulmonary Autopsies 380
- c. Sputum & Other Fluids for malignant cells 800

CVTC Laboratory 315 (CVTC Building First Floor)

Annual Workload

- a. Blood Collections (OPD+ Wards) 21,968

b. Hemograms	71506
c. Prothrombin time	15928
d. Routine Urine Examination	3568
e. Routine body Fluid Examination	216
f. Lipid Profile	3514
g. Complete lipid Profile	3514
h. Creatine phosphokinase & isoenzyme	48
i. Serum Amylase	187

CVTC Immunology Lab 316

a. Serum immunoglobins	75
b. Serum complement (C ₃ , C ₄)	487+450= 937
c. high sensitivity C-reactive protein	2973
d. RA factor	1076
e. Cryoglobins	33
f. Anticardiolipin antibodies	109
g. Bronchialveolar lavage cytology	07

Cytology (library Bldg 2nd floor)

Total FNAC performed	3830
No. of slides generated from FNAC	22980
PAP stain carried out on	11490
Giemsa stain carried out on	11490
No. of fluid samples for cytology	520
No. of slides generated from FNAC	1040
PAP stain carried out on	520
Giemsa stain carried out on	520

O. C Laboratory

Hemograms	10951
Biochemistry	5924
Hb	10951
PCV	2324
ESR	10951
WBC total	10951
WBC differential	10951
MP 252	
BT/CT	02

EMS laboratory

Haemograms	110600
Smears for malarial parasites	83959
Arterial Blood Gas (machine not working since july)	
CSF	1529

Surgical Pathology (library bldg 2nd floor)

No. of specimen	8645
No. of blocks	27960
No. of slides prepared	33509
No. of special stain	1973
No. of frozen section	187
No. of frozen bits cut	639
No. of kidney biopsies	159
No. of kidney blocks	188
No. of Bone marrow blocks	242

Clinical pathology and hematology (MSB 6th floor)

Participating in the external quality control programme – ISHTM – AIIMS EQAP programme and result are satisfactory

Hemograms	57476
Malarial parasites	5999
Platelet count	39876
Special investigations (RBC, sickling, LE cell etc)	1272+139+742=2153
Bone marrow biopsies	478
Special stains for leukemia	90
Total urine samples	17985
Total fluids	2527

Neuropathology (MSB 6th floor)

Clinical Pathology	
No. of Hemograms	988
No. of CSF examined	1125

Biochemistry

No. of Ascitic/Pleural	1125
Proteins urine porphyrin	2530

Histopathology

No. of tissues received	1077
No. of blocks prepared	2210
No. of slides prepared	2551
No. of tissue for cryo/squash	92/410
No. of CSF cyto/ cryptococci	368

Autopsy

No. of brains received	150
No. of blocks prepared	1903
No. of slides prepared	1910

Clinical & Hematological Services

Outpatient Department Laboratory (MSB Ground Floor)

a. Blood collections:	2, 30,000
b. Hemograms:	2,10,000
c. Coagulation profile (BT/CT):	3500
d. Routine urine examination:	45000

Pediatric Surgery

Total admissions -2300

- Total Surgery : 3200
- Major Surgery : 415
- Minimal Access Surgery : 186
- Minor Surgery – 2111

Pediatrics

Quality of Patient Care:

The services are provided round the clock by the three units. The paediatric intensive care unit caters to seriously ill patients.

Mortality Rate (Total deaths / Total discharges)

2001	0.100
2002	0.105
2003	0.089
2004	0.077
2005	0.077

2006	0.093
2007	0.225
2008	0.268
2009	0.282
2010	0.054

Overall highlight of patient care:

- Pediatric Anti Retrovirus Therapy Clinic – new day i.e. Wednesday morning as per the national government directive, common HIV OPD day for the country. 136 male and 106 female children are being administered ART in the year 2010 while 314 males and 260 female children are in the Pre-ART phase and are being monitored regularly.
- Pediatric Epilepsy Care Clinic for children suffering from epilepsy, stressing on monitoring of treatment (TDM) and management of co-morbidities. 122 new patients enrolled in 2010.
- Pediatric Chest Clinic for Asthmatic and Allergies (Preventive and Therapeutic) –73 new patients
- Pediatric Rheumatic and Nephrology OPD emphasizing on monitoring and treatment of renal disorders and rheumatic disorders - 27 and 23 new patients enrolled respectively in each OPD. 162 and 280 new patients enrolled respectively in each OPD.
- Pediatric Research Laboratory – Genetic and Metabolic disorders – 851
- Thalassemia Day Care Centre for regular transfusions, chelation for thalassemic children -148 children receive regular transfusions.
- Well baby clinic for ensuring routine checkups, routine and special immunization, and screening for certain disorders. Working for acquisition of special vaccines free of cost.
- A parallel OPD for Febrile Illnesses during monsoon.
- IPCU audit meets – death, cases, antibiotic sensitivity meets monthly.

New services:

- Learning Disability Clinic started on 1st April 2010 to assess children having poor school performance; 316 children were referred and assessed by the clinic.

Pharmacology

- OPD services: Ayurveda Research Centre of Department of Pharmacology and Therapeutics runs an OPD on Friday afternoon. Last year 3018 patients registered in the OPD.
- Indoor admissions in the Ayurveda Ward were done whenever detailed assessment and therapeutic procedures were required.
- Appointment of Dr Ashwinkumar Raut and Dr Ashish Phadke as visiting faculty to strengthen patient care and research of Ayurveda Research Center
- *Panchkarma* and other therapeutics procedures were performed on 301 patients who were admitted on Day Care basis. Ksharsootra was supplied to Department of Surgery for 13 patients with fistula in ano.
- Monitoring for Quality of Ayurvedic Formulations: 66 Ayurvedic formulations were analyzed for synthetic steroids and of these 18 were found to contain synthetic steroids. In addition 7 samples were received for detection of Lead, 6 for Mercury, and 7 for Arsenic and 6 for Cadmium
- Resident doctors of the department took part in the patient care by providing services to the Fever OPD, in Emergency Medical Services of the institute, from June to September 2010.

Physiotherapy

P.T. School & Centre has facility to offer specialty Physical Therapy patient care in following areas :

- Intensive care -Medical, Surgical, Respiratory Pediatric, Orthopedic and Neurology
- Trauma and Pain care
- Degenerative disorders
- Mobilization and Manual Therapy
- Hand Rehabilitation
- Obesity and Fitness promotion
- Women's Health
- Sports Physical Therapy
- Cardio-Pulmonary Rehabilitation

- Adult Neuro Rehabilitation
- Pediatric Neuro Rehabilitation
- Tilt table training in syncope
- Amputee Rehabilitation
- P.T. following Gastric surgery & urogenital surgery
- P.T. for incontinence

Physiotherapy dept. provided services to :

- * 3,00,000 patients : 1,20,000 – outdoor patients at Physiotherapy OPD
: 1,80,000 - Indoor patients at Cardiovascular & Throacic Centre, Orthopaedic Wards , Medical , Surgical Intensive Care unit and Wards of K.E.M. Hospital
- Daily average of P.T., OPD attendance : 500 patients
- Daily average of PT Indoor attendance : 600 patients

New Services :

- Relaxation techniques in chronic pain syndrome.
- Evaluation and training of geriatric patients to reduce the risk of falls.
- Evaluation and treatment of Osteoporotic Patients.
- Pranayan and breathing retraining in asthma patients.

New Facilities:

- Transcutaneous nerve stimulation in hypertensive patients.
- Myofascial release in cervical spondylosis
- Mobilisation of neural tissue in cervical; and low back pain patients.

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, microvascular surgery etc

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 upto Nov.
Indoor patients - Plastic surg	713	802	763	867	880	744	1002	950	851	787
Indoor patients - Burns	125	153	135	197	255	173	151	105	75	47
O.P.D. Patients	7715	8259	7566	9084	9494	7140	8802	10001	-	8818
Casualty Reference	1300	1177	1263	1533	1326	1013	1175	928	1278	687
Routine operations	1391	1819	1835	1852	2007	1268	1976	922	1622	979
Emergency operations	1414	1236	1252	1406	1592	1064	1721	2357	1866	2596
TOTAL OPERATIONS	2805	3055	3187	3258	3599	2332	3697	3279	3488	3575
Referrals from other departments	667	931	1372	1437	2227	2052	2503	2268	1627	1601

- **Special Services for Patient :** Comprehensive hand clinic, Thursday 2.30 pm Maxillofacial OPD Mondays, Ward 16, 2.30pm
- **Special Facilities for Patients :** Occupational Therapy services exclusively attached to our dept.
- **Mortality Rate In Burns Ward :**

Year	Total Admission	Mortality
2003	135	67 (49.6%)
2004	197	85 (43.1%)
2005	255	89 (34.9%)
2006	173	60 (34.6%)
2007	151	87 (57.6%)
2008	105	45 (42.86%)

Year	Total Admission	Mortality
2009	75	36%
2010	47	26%

PSM

I. Services in KEM campus :

a. General OPD services :

PSM department manages General OPD services in KEM Hospital wherein all new patients attending KEM Hospital are examined and treated. The patients requiring specialist services are referred to the respective OPDs. The patients are also regularly followed up and are provided health education about their diseases.

During year 2010, 53,394 patients were examined in GOPD (male – 33,342, female – 20,052) . 12,368 (23%) patients required referral to other specialities for further management.

In the same premises, screening of BMC employees is also carried out for infectious diseases and chronic diseases. A total of 2446 employees (male – 1692, female – 754) were examined in 2010.

b. Immunisation OPD :

The national program for UIP is being implemented in our institute with given below children availing of the vaccines.

Vaccine beneficiaries :

Vaccine	Male	Female	Total
BCG	2374	2195	4569
OPV 0	2125	2053	4178
DPT 1/ OPV1	1767	1273	3040
DPT2 / OPV2	1128	1100	2228
DPT 3 / OPV3	1012	898	1910
HBV 1 , HBV 2, HBV 3	1972	1571	3543
Measles	436	359	795
MMR	456	345	801
DPT / OPV B1	421/421	344/344	765/765
DT / OPV B2	147/147	124/124	271/271

In addition, 10 rounds of Pulse Polio Sundays followed by a week of IPPI activities within the campus were conducted in the year of 2010.

e. Integrated Disease Surveillance Program :

Daily Disease surveillance is done through SDU 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 are carried out. The disease trend and high risk areas are identified and informed to Epid cell (Kasturba hospital) for required action.

The death cases are thoroughly investigated. Health check up camps are carried out in the vicinity of the outbreak areas by the PSM residents.

The total cases admitted in this year were 4721 and total deaths were 313.

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 :

1. General OPD (Geriatric Clinic) on every Monday, Wednesday & Friday.

In the year 2010 till date, patients were examined in the General OPD at Naigaon.

2. Under Fives Clinic at Naigaon Maternity home on every Tuesday & Friday

In the year 2010 till date, 480 beneficiaries benefited from this clinic

III. Services at Malvani Urban Health Centre :

Urban Health Centre Malvani, a field practice area of the Department of Preventive and Social Medicine is located at Malvani slums, Malad. It provides preventive, curative and rehabilitative services to the urban slum population in the surrounding area & provides training to undergraduate & postgraduate medical students.

Routine OPD's

	Morning	Afternoon
Monday	GOPD, POPD, TB-OPD, STI clinic Dental OPD	Psy-OPD, AGI
Tuesday	GOPD, POPD, TB-OPD, STI clinic, Immunization, Skin OPD	New ANC Registration
Wednesday	GOPD, POPD, TB-OPD, STI clinic, Dental OPD, Leprosy Clinic	Psy-OPD, Chronic-OPD, Gynaec-OPD
Thursday	GOPD, POPD, TB-OPD, STI clinic, Dental OPD, Immunization	Chronic-OPD, ANC Clinic
Friday	GOPD, POPD, TB-OPD, Dental OPD, STI clinic	Psy-OPD, ANC Clinic
Saturday	GOPD, POPD, TB-OPD, STI clinic, Immunization	-----

GOPD: General OPD, POPD : Pediatrics OPD, Psy OPD : Psychiatry OPD

Others - Cataract camp - Monthly

Patient Visits in General OPD & Paediatric OPD :

Sex	Children		Adult	Total
	0-5 Years	6- 12 Years		
Male	7276	6096	15415	28787
Female	6305	6841	23167	36313
Total	13581	12937	38582	65100

Chronic OPD - 2627 patients (M- 600 , F- 2027) suffering from HT, Diabetes, Epilepsy & Asthama attended Chronic OPD

RNTCP OPD – A total of 343 patients (M- 181 , F- 162) suffering from Tuberculosis were diagnosed and started on DOTs treatment, of this 155 patients were sputum positive.

Family planning OPD – Cu-T was inserted in 184 women and 1144 women were distributed OC Pills.

ANC OPD – 679 pregnant women were registered for antenatal care, 933 women visited for follow up ANC visits and 48 high risk cases were identified.

Well Baby clinic – 249 children were enrolled and regularly followed up for their growth and development in well baby clinic.

Immunisation OPD

Vaccine	Male	Female	Total
BCG	947	868	1815
HBV 1 , HBV 2, HBV 3	2962	2679	5641
Measles	1006	916	1922
MMR	371	633	1004
DPT / OPV B1	1327	1082	2409
DPT / OPV B2	1253	1192	2445
TT	763	700	1463

ICTC OPD

	Male	Female	ANC	TG	Total
Pre-test counseling done	998	841	637	350	2801
HIV positive	51	25	1	82	159
HIV negative	875	761	586	169	2533
Total HIV tests	981	830	645	242	2698
HIV positivity rate	5.19%	3.01%	0.15%	33.89%	5.89%

STI OPD

	Male	Female	Trans Gender	Total
Clinic visits with STI/RTI complaints & were diagnosed with STI/RTI	91	665	78	834
Clinic visits with STI/RTI complaints but were not diagnosed with STI/RTI	3716	5211	70	8997
Follow up visits for index STI/RTI complaints	11	125	6	142
No. of patients counselled	382	831	176	1389

Laboratory Services

Investigation	No. of patients		Total
	Positive	Negative	
Sputum AFB	664	4268	4932

Investigation	No. of patients		Total
	Positive	Negative	
VDRL (ANC)	1	678	679
VDRL(VCTC)	26	700	726
UPT	98	102	200

IV. Services at Rural Health Training Centre, Sakwar :

As per MCI guidelines, the department of Preventive & Social Medicine has developed the 'Rural Health Training Centre' (R.H.T.C.) at Sakwar, Vasai taluka, Thane district, in collaboration with the Ramakrishna Mission, Khar. The centre provides medical services to about 400 villages of 7 adjacent talukas in the Thane district.

The various curative, preventive, promotive and rehabilitative services are provided to the tribal population of nearby villages at the R.H.T.C. The various OPDs are

General Out-Patient services (Adult and Paediatric), Dispensary, Injection and Dressing O.P.D. – daily

Antenatal Care (A.N.C.) O.P.D., Dental O.P.D. , Leprosy O.P.D. , Tuberculosis O.P.D. – once a week, Pathology laboratory , Radiological investigations – once a week

Medicine O.P.D., Gynaecology O.P.D. – twice a week

Skin O.P.D. , Ophthalmology O.P.D. – once a month

Services	Patients examined
General OPD	28925
TB OPD	481
Leprosy OPD	1017
Dental OPD	1063
Ophthalmology OPD	480
Gynaec. OPD	258
ANC OPD	25
Total	32249

Psychiatry

There are two main sections of the department

A. General psychiatry – 60 BEDS

B. Bombay De-addiction centre of excellence - 30 BEDS

Facilities provided are:

- Emergency services, Indoor facilities, Outdoor facilities, Investigation - Psychological & Medical Pharmacotherapy, Electro Convulsive Therapy, Psychotherapy (Individual & Group), Behavior Therapy, Group Psychotherapy for family of mentally ill, Psycho educational program, Occupational Rehabilitation

General

In this year the numbers of new patients seen in OPD were –6109

On follow up the number of patients examined were approximately – 23334

The number of indoor admissions were – 522

EEGs done were - 900

ECTS given were - 810

OPD	Dr SRP unit	Dr ASN unit
Old	11755	11579
New	3075	3034

Deaddiction Centre

- In this year the number of patients seen in OPD were –29,443 Grand Total)

Indoor Admissions 2010

	Deaddiction (SRP)	Dr ASN (PSY)	Dr SRP (PSY)	Total
Jan	15	20	6	41
Feb	3	17	14	44
March	13	16	18	47
April	16	8	21	45

	Deaddiction (SRP)	Dr ASN (PSY)	Dr SRP (PSY)	Total
May	8	10	14	32
June	23	5	13	41
July	37	6	17	60
August	30	16	10	56
September	17	13	12	42
October	20	11	8	39
November	22	18	8	48
December	19	5	3	27
Total	223	145	144	522

Drug De-Addiction Laboratory Work Report

Jan 2010 To Dec 2010

No	Name of the Test Done for Received Sample	No of Samples
1	Urine alcohol{indoor+outdoor }by Dichromate or by morpholine method	7912
2	Indoor urine samples for 1. Morphine 2. Cannabis 3. Benzodiazepine 4. Cocaine	204 277 16 04
3	Outdoor urine samples for 1. Morphine 2. Cannabis 3. Benzodiazepine 4. Cocaine	187 521 57 02
4	Rave party patients 1. Cannabis 2. MDMA	144 70
5	Miscellaneous samples (Pudi,Tablet , Misri)	10
	Grand total (1+2+3+4+5)	9404

	Alcohol		OPIOID		
	New	Old	New	Old	
January	51	311	11	43	
February	69	337	5	35	
March	64	351	6	53	
April	56	321	13	38	
May	32	206	7	35	
June	34	181	13	50	
July	78	294	8	51	
August	52	254	3	51	
September	47	154	9	32	
October	72	220	11	46	
November	49	213	8	34	
December till 16/12/10	39	179	10	26	
Total	643	3021	104	434	Total = 4262

Specialist Services

Group Therapy Services

The department provides group therapy services for patents. The disorders and the number of patients counseled are as follows:

Suicide attempts:	112
Sexual dysfunctions:	108
Carers of Patients with Schizophrenia	235

Specialized Clinics

Specialized clinics are also run for special groups of patients. The number of patients seen are:

Child guidance clinic for children with psychiatric disorders

New 484

Follow up 488

Geriatric clinic for old age patients

New 360

New Services

- Savitribai Phule Stri Sansadhan Kendra (Gender Resource Centre) at Worli – Women related psychiatric problems are dealt with on every Thursday
- Sewri TB Hospital – WHO DOT Plus Programme- Clinical & Neuropsychological evaluation of patients with MULTIDRUG Resistant Tuberculosis patients carried out on every Tuesday.

Radiology

Diagnosis – No of patients treated.

Radiology Procedures	No. of patients 2010
Gastrointestinal and Genitourinary Radiology	4725
USG	34120
CT	22744
MRI	6964
INR	1152
VIR	1143
Gen. Radiology No. of patients (old & new)	159081
X-RAY Cardio Thoracic & Orthopedic Centre No. of patients	37223

The Department of Radiology conducts one year Fellowship Courses in various Sub-specialities of Radiology affiliated to the Maharashtra University of Health Sciences (MUHS).

Surgical Gastroenterology

Our department is a tertiary referral centre for management of complex GI surgical cases. It caters to the patient population not only of city of Mumbai, but also Maharashtra and the rest of India.

We routinely perform complex surgeries such as : Liver Resections, Surgery for Klatskin Tumor, Whipples surgery, Esophagectomy, Gastrectomy, colectomies, advanced Laparoscopic Surgeries. Besides we also have the facility of Radio-Frequency ablation of Liver Tumors which are inoperable, or who do not desire to undergo surgery.

Liver Transplant OPD was started on Monday in collaboration with department of Gastroenterology.

Urology

a. 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.

b. *Investigative Facilities offered by the department :*

Ultrasonography : Urology department has its ultrasound machine where scans of urological patients are done.

- o Urodynamic Studies (Uroflowmetry) : This laboratory, located in the department helps in evaluating people with obstruction to urine flow.
- o Doppler ultrasound : This investigation helps in evaluating patients with infertility and following transplantation.
- o Radiological investigations like Retrograde Ureterogram and Retrograde Pyelogram.
- o Uro-endoscopy
- o Phalldynamic Studies (Impotence Studies).
- o RGP/PCN
- o Drug Trials : Prior to the release of drugs in India, pharmaceutical companies carry out clinical trials of drugs in hospitals to determine their efficacy. Our department has carried out and is currently carrying out such trials involving many urological drugs.

KEM Hospital Urology department has a state of art Dornier Lithotripter (to break kidney stones without surgery). This is amongst the best such machine in India. It caters to a total of 350 new patients per year.

Our department carries out live and cadaveric renal transplants regularly and is among the oldest institutes in India for kidney transplantation starting transplantation way back in 1965.

PCCL(Percutaneous Cystolithotripsy) is a technique to remove large bladder stones by making a small hole in the skin using our newly devised PCCL single step access sheath. Using this method, open surgery for urinary bladder stone can be avoided. Our department offers this facility to our patients.

Laparoscopy in urology is a new upcoming modality, which is being started in major urological departments in India. Our department too has started offering laparoscopic procedures to our patients. We perform laparoscopic ureterolithotomies, Lap. Nephrectomies etc. We have also procured Laparoscopy Trainer to train postgraduate students in basic Lap. procedures before they perform them on patients. Ours is the only department in the whole state of Maharashtra which has started and has been regularly performing laparoscopic donor nephrectomy which is consider to be the most difficult and complex urological laparoscopic operation.

We performed the first penile implant using shah's Indian penile prosthesis in Dec.09. Dr.Rupin Shah an Ex-student of K.E.M. Hospital, urology has devised this economical prosthesis costing Rs.8,000/- versus Rs.40,000/- for the imported variety.

a. Patient Education Activities:

- o Medical Social Worker takes a lecture on organ donation during OPD timings. This is to increase awareness about organ donation.
- o Dietary advice about stone disease
- o Posters on BEP, Stone, Cancer

b. Computerization of IPD records:

All patients admitted to the ward are entered into the data base of the department and records are maintained on hard disk.

Workload of the Department (for last 3 Years)

Patient Workload

Year		O.P.D	Attendance		Indoor Admis- sions	Referrals Calls	
	Gen.Urology	Stone Clinic	Infertility	Total		Emergency Calls	
						Indoor	Intra op.
2008 (till Nov. 2008)	5894	6302	729	12925	670	1394	27
2009 (till Nov. 2009)	5842	5838	754	12434	934	1235	35
2010 (till Nov. 2010)	3810	4346	564	8720	1116	2310	30

Diagnostic Workload

Year	USG	Cystoscopy & Related Procedures	Uroflowmetry	Trust Guided Biopsy
2008 (till Nov.)	26	774	198	144
2009 (till Nov.)	25	1354	880	220
2010 (till Nov.)	120	954	1020	232

Operative Workload

	2008	2009	2010
Open work 60 to 70% in operative work	77	143	263
Transplant – (LRDT + Cadaver)	16	13	17+2 =19
Endo-urology :			
VIU	82	80	67
TURP	61	70	105
Endomeatotomy	2	3	--
Litholapaxy	23	30	37
URS	44	77	175
PCN	35	40	39
PCNL	87	97	146
PCCL	14	9	03
Endopyelotomy	0	--	--

	2008	2009	2010
TURBT	15	21	37
Laparoscopy	63	35	17

ESWL: Location	2007	2008	2009	2010
Renal Stone	95	190	197	130
Ureteral Stone	88	142	52	30

Community Care

Community care

Anesthesia

Conducted a basic life support training course for paramedical personnel to handle emergency scenarios.

Chest Medicine

The department conducted respiratory morbidity related health surveys to study the effects of air pollution on health and asthma prevalence in several areas of the city including St Jude's high school at Kurla and JVM secondary high school at Ghatkopar. Lung function tests were also carried out. The participants were involved in interactive sessions with the physicians.

Posters and models depicting healthy and affected airways were made for lay people.

Respiratory morbidity related health survey in police officers of the city was conducted on 7th January 2010

Annual health surveys pertaining to respiratory morbidity was conducted in chlorination plant workers at Bhandup complex in July and is ongoing at another plant.

Respiratory morbidity annual survey amongst sewage workers at Versova pumping plant was conducted in October and November.

Dr AU Athavale participated in the program 'Hello Doctor' that was broadcasted by Prasar Bharti, All India Radio in Jan 2010.

ENT

All faculty and residents have been involved in various diagnostic camps in Mumbai and in different parts of Maharashtra

Endocrinology

Diabetes detection osteoporosis camps were organized at the institute on 19th September, 24th November, and throughout December 2010.

Hematology

Cancer awareness programs, anti tobacco campaigns and breast cancer awareness programs for the common man were conducted.

Dr. Farah Jijina who is also patron of the Vasantha Memorial trust (an NGO) participated and organized many awareness camps for various types of cancer.

Medicine

D Santosh Salagre organized several mega health camps

Communication skills workshop" was conducted by Dr ND Karnik, Dr. Meghna Vaidya and Dr Manish Itollikar.

The department also organized health check up camps for police, MCGM employees and blood donation drives.

Neonatology

Series of lectures taken for project "Saving lives" to train health workers in maternal & newborn health in resource poor setting were conducted. The following lectures were taken-

Kangaroo mother care by Dr Ruchi Nanavati, Dr Chhaya Mehta, Mrs Veena Chavan, Dr M Janin, Mrs S Pale, Mrs Asmita Ponkshe

Neonatal resuscitation by Dr M Jain and Dr S Kona

Dr. Ruchi Nanavati delivered a lecture on the topic, 'lactation management' in hindi for community mothers organized by inner wheel club of north island at Navjeeven community health center at on 5th august 2010

Nephrology

Camps for early detection and screening for chronic kidney disease on world kidney day were conducted.

Dr. N.K. Hase interacted with patients, on All India Radio in the program 'doctor appalya bhetila' on kidney failure. He also authored the article entitled, "Chronic kidney disease -cause symptoms, treatment options and prevention" in Navakal,

Marathi news paper.

Nursing

Patient services at urban health centre, Naigaon maternity hospital

Rural community health services, at Nere, Panvel primary health centre.

Implementation of national health program like pulse polio, AIDS awareness

Street play exhibitions were arranged on HIV AIDS on 1st December 2010.

School of nursing has started child to child programme at BJ Deorukhkar municipal primary school

Obstetrics & Gynaecology

Dr. N.M. Mayadeo, Dr. H. S. Warke and Dr. Padmaja Samant conducted several community awareness, workshops and camps and delivered guest lectures to the community.

Occupational therapy

Mrs Kirti Kene conducted the following camps:

National hemophilia camp at Aurangabad from 1st to 3rd January 2010.

Awareness and training camp for hemophilia patients and their relatives at Rajkot from 16th to 17th April 2010.

Medical camp, at Dombivili for evaluation and intervention of musculoskeletal problems in elderly

Thalassemia awareness and medical check up camp at Sonarpada village, Dombivili

Ophthalmology

Round the year eye camps

Pathology

Round the year blood donation camps as well as special camps for monsoon related illnesses.

Pediatric Surgery

The surgeons started operating on children at Shatabdi hospital (Govandi) peripheral hospital of MCGM, first superspecialty to start operating at a peripheral hospital. 7 cases were operated in Nov and Dec 2010.

Pediatrics

Dr. Mamta Muranjan participated in the camp for patients with lysosomal storage disorders organized by the lysosomal storage disorders support society of India (LSDSSI) and Sir Ganga Ram Hospital on the occasion of the first rare disease day, February 28, 2010

Dr. Milind Tullu was the team leader for the medical camp for monsoon illnesses conducted on 6th August 2010 at the Shirodkar High School

Dr. Chhaya Mehta was the team leader for the medical camp for monsoon illnesses conducted in Aug-Sep 2010.

Associate Professors/ Assistant Professors visit Shatabdi Hospital, Govandi on every Thursday of the month for community health activities and pediatric OPD services.

Resident doctors posted in Kasturba Hospital for managing swine flu duty and malaria patients.

Health education imparted to patients' relatives in the wards.

Health education lectures on awareness of rheumatic fever / heart disease

Camps for pediatric check up in community and conducted school clinics.

Pharmacology

Participation in the health camp, organized at Chaityabhumi on 6th December 2010 to provide care and awareness about rational use of Ayurvedic drugs.

Participation in the camp held at Mangaon on 14th March 2010 by Sant Nirankari Mandal, New Delhi. 572 patients attended the same.

Physiology

Dr Anita Agarwal, Dr Vineet Kumar Jagnany and Dr. Adwait Godse were involved in the Piramal health care – "help your

body project” for best employees.

Physiotherapy

Social awareness lectures were delivered by Bhavana Mhatre on the following topics

Exercise prescription for multiple sclerosis’ – guidelines and demonstrations, multiple sclerosis chapter, for therapists, patients, and caregivers.

Physiotherapy for osteoporotic women’ – for post menopausal women.

Preventive & Social Medicine

Community outreach health services:

Mumbai Aarogya Abhiyan 2010 :

Months	Total No. of camps	Population Screened
April		16253
May	98	16822
June	120	18781
July	130	23283
August	118	25830
September	131	16556
October	115	16860
November	125	14080
December	125	8325
Total	65	156790

Sankrant haldikumkum program for under five mothers’ (150 participants)

Poster’s exhibition & health education on hypertension and diabetes (40 participants)

Health promotion activity for adolescent girls from police head quarters (20 participants)

Anemia detection program for women undergraduate students families (60 participants)

Mother & child care awareness health education & posters exhibition on nutrition child care (35 participants)

Women’s day program with under five mothers and relatives of the Antenatal clinic (60 participants)

Nutritional supplementation and help for medical aids from diverse trustees

Hypertension detection program for family members and referrals in the police headquarters

Nutrition week celebration program in municipal hindi school.

Awareness session about nutrition and personal hygiene, posters competition with 7th & 8th std. Students on the same subject (100 participants)

Health education and posters exhibition on diabetes foot care and hypertension care for Naigaon geriatric outpatient clinic (30 participants)

Put up stall on nutrition and aneamia for adolescent girls and their mothers with collaboration of Akshara NGO (51 participants)

Child to child session on nutrition personal hygienic and aneamia for 5th to 8th std children from Nabar school, Dadar(200 participants)

Awareness rally and skit on HIV AIDS to residents of BDD chawl

HIV AIDS awareness program and skit in Nabar school 9th and 10th standard students and their parents(150 participants)

Community Outreach - Malavani

- Oral cancer, cervical and breast cancer screening at Tata memorial centre in collaboration with department of preventive oncology for MCGM community workers
- Blood group testing of school children of Alafalah high school.(118 beneficiaries)
- Sensitization to activities of ‘chaha’ (a ccdt project which caters to HIV +ve people operating from Dahisar.(25 beneficiaries)
- Session on correct techniques of breast feeding on occasion of world breast feeding week at Ambujwadi in collaboration with ngo navnirman.(32 beneficiaries)
- Visit to Sakhi Charchoughi(NGO working for transgenders) in collaboration with supervisory team from NACO.(10 attendees)
- Sessions conducted under child to child program at the mhb municipal school marathi (181 beneficiaries) and Urdu

(398 beneficiaries).

- Family health education at Poddar international school.(150 beneficiaries)
- Focus group discussion on HIV AIDS in youth group at a bangle packing industry, Malwani.(15 beneficiaries)
- Quiz on HIV AIDS conducted amongst D. ed students of NTCC, Malavani. (31 beneficiaries)
- Skit on “tobacco deaddiction” in the premises of muhc by students from Malwani municipal school through Salaam Bombay foundation.
- TB day - patient meet and discussion on treatment compliance in collaboration with local NGOs
- Women’s day - lecture on “Cancers in women for community health volunteers (51 beneficiaries) at MUHS and for women in community (33 beneficiaries) in collaboration with local NGO.

WHO Day

- Skit and poster exhibition on who day theme 2010 “1000 cities 1000 lives”.
- Rally in the community on healthy lifestyle practices.
- Interactive games and best healthy recipe competition for women’s groups in the community (10 groups – 60 women).
- Diet for lifestyle diseases and laughter yoga for geriatric patients (120 beneficiaries).
- Panel discussion on “Role of youth in combating terrorism” at malwani police station with youth animators from community (20 beneficiaries).

Breastfeeding Week

- Healthy baby competition for under-five children (49 beneficiaries).
- Geriatric day – poster exhibition, nutrition - education and games (144 beneficiaries).
- Mental health week – poster exhibition & informative lectures conducted for psychiatric and chronic outpatients (106 beneficiaries)

Community outreach health services at RHTC Sakwar :

- Regular health check up of 5 Aanganwadis under sakwar subcentre beneficiaries – 227 children
- Regular health check up of 3 Balwadis managed by Ramkrishna mission beneficiaries – 93 children
- Comprehensive health check up with health education for Ashramshala students at belwadi, beneficiaries - 563
- Regular health check up of old inmates at Vruddhashram at Sakwar
- Regular health education sessions on maternal and child health for tribal women attending monthly Mahila shibir at Sakwar RHTC

Community Health Care Activities

- Nutrition exhibition in ma-beti mela at gender resource centre
- Exhibition on cancers in women at gender resource centre of MCGM
- Nutrition training of the barefoot councillors at GRC
- Camp at Goregaon on diabetes and school health
- Exhibition on diabetes and blood pressure at Naigaon (quarterly)
- Diabetes and blood pressure at Chembur
- Exhibition on girl child at Naigaon (twice in the year)
- Street play on breast feeding (five places)
- Patient education centre – preparation of posters

Social Awareness Lectures

- Dr. RR Shinde :- on “ Role of hospitals in health care system” at all India institute of local self government and Garware institute of career development
- Dr. Seema Bansode Gokhe : orientation lecture for students enrolled for diploma hospital administration course at TISS, orientation lecture for students enrolled for diploma hospital administration course at Garware institute of Mumbai university
- Dr. Sunita Shanbag : “HIV AIDS amongst youth” - SIES college
- Teachers training for children with special needs at Spastic society of India
- Dr. Kamaxi Bhate : assoc. Professor : training of the MCGM staff on prevention of sexual harassment at work place committee six sessions in the year, coordination of Arogya abhiyan of MCGM, started mother support group sessions in the hospital in PNC and neonatology.
- Dr. S. Acharya : Family life education skills for tribal youth (80) at Sakwar, training of general practitioners on “malaria management” in 6 wards of Mumbai. (472), sensitization training of nurses and class IV employees on ‘stigma and

social issues in HIV AIDS at MUHS and Govind nagar hospital, training of ASHA workers on 'infant & young child nutrition' at Durvesh primary health centre.

- Dr. Swati Deshpande : "HIV AIDS training in collaboration with MDACSs for students of Ruia college Matunga, on 3rd September 2010 and Kirti collage Dadar, on 17th September 2010.

Psychiatry

Community outreach services

A community psychiatric health centre is run by the department at Malavani. Trained psychiatrists examine and treat patients hailing from this area. Psycho-educational lectures are taken during community programs. This year lectures taken were about 'de-addiction' during mental health week, about HIV AIDS on World AIDS day and about 'psychological health in geriatric population' on world geriatric day. Individual & group counseling services are also provided where needed. This year 1600 patients were evaluated.

Month	Old	New
January	69	11
February	99	28
March	118	11
April	115	12
May	92	9
June	98	5
July	84	13
Aug	127	16
Sept	110	9
Oct	138	23
Nov	151	21
Dec	116	9
Total	1433	167

Social Awareness Camps and Lectures

Community awareness program and other activities a paper by Sadhana Bhatkhande (medical social worker) year 2010
For counselors of NACO

World no tobacco day poster exhibition and awareness program on 31st may 2010

World de-addiction day awareness program at Navbharat vidyalaya , RM Bhatt high school Parel – poster exhibition, talk and skit on 25th June 2010

Conducted program from youth under the aegis of Bagadia endowment program at Bandra yuva parivartan group on 25th September 2010

Program for women at Budha vihar , Maya nagar worli (mental health awareness)

Conducted sessions for elderly men and women

Conducted session on Healthy Ageing at Anand dham jambhul pada

Mental health awareness program at Madhav bhagwat highschool

Radiology

The division of vascular and interventional radiology conducted screening programs for detection of peripheral vascular disease and aortic aneurysms in the community

Surgical gastroenterology

Published a community awareness booklet in Marathi and English for liver transplant

Transfusion Medicine

A mega blood donation camp was organized along with Shivsena on 25th April 2010 where 25,000 units of blood were collected

In collaboration with Tarun Mitra Mandal, the department organized 3 blood donation camps in the year 2010. A total of 3278 blood units were collected in the year.

Urology

Awareness activities of the zonal transplant co-ordination centre

Dr. Sujata Patwardhan and Ms Jyoti Nagda from Narmada kidney foundation organized a talk on “organ donation” for nursing staff on 12th January 2010.

The ztcc in co-ordination with urology dept organized a training session on ‘deceased donor transplantation’ for the social workers, co-ordinators and ICU medical officers and nurses in two batches on 2nd and 9th July 2010.

Dr. Sujata Patwardhan was invited to give a talk on “brain stem death” by Mumbai baptist church on 4th July 2010. She distributed around 400 pamphlets and donor cards.

Brain death and organ donation talk by Dr Patwardhan and Mrs Aashtekar on 16th July 2010

Dr. Sujata Patwardhan gave a talk on “Organ donation and skin donation”, on radio (akhashwani) on 12th October 2010.

Bishop of Mumbai invited Dr Sujata Patwardhan to give a talk on “organ donation” at ‘Christ church’, on 3rd November 2010.

Education

Education

Anesthesia

- Course offered, Intake for current Year results
 - o MD Intake: 22, Results: 100% DA: Intake: 16, Results: 100%
 - o CPR: Advanced Cardiac Life Support (ACLS): 30 workshops, attended by 300 students.
- New courses added and Intake
 - o One year fellowship course started with approval from MUHS – Cardiac Anesthesia, Neuro Anesthesia, Pediatric anesthesia. Two students in each course. All students have successfully completed the fellowships.
 - o Library- 600 books, computer equipped Dept library is available for use to faculty and residents.

Anatomy

Courses offered and intake

Sr. No.	Courses taught	Intake of Students	Results (% of pass)
1	I MBBS	180	98 %
2	MD Anatomy	03	100 %
3	I B.P.Th.	37	84 %
4	I B.O.Th.	35	69 %
5	Nursing	80	--

Sr. No.	Courses taught	Institute	No. of students
1	Biomedical Engineering	DJ Sanghvi College of Engineering	35
2	Biomedical Engineering	Thadomal Shahani Engineering College	35
3	Biomedical Engineering	Watumull Institute of Electronics Engineering and Computer Technology	80
4	Biomedical Engineering	Vidyalankar Institute of Technology	
5	Radiotherapy Technician course	Tata Memorial Hospital	05
6	Radiography Technician Course	Garware Institute	15
7	B.Sc Nursing	P. D. Hinduja College of Nursing	31
8	B.Sc. Nursing	Bombay Hospital College of Nursing	41
9	B.Sc Nursing	S. N. D. T. University	50
10	Nursing	Holy Spirit Institute of Nursing Education	30
11	Nursing	Gopikrishna Piramal Memorial Hospital	15

During the year the department conducted several collaborative programs, which are listed in the table

Sr.No.	Name of the Workshop	Department Collaborated with	Date
1	Head and Neck workshop	Dept. of ENT-KEMH	31.01.10
2	Knee and Shoulder Arthroscopic workshop	Dept. of Orthopedics, KEMH	27.02.10
3	Spine surgery workshop	Dept. of Orthopedics, Hinduja Hospital	22.05.10
4	Arthroscopic workshop	Dept. of Orthopedics, KEMH & BOS	14.08.10
5	Phonosurgery workshop	Department of ENT- Bombay Hospital	29.08.10
6	Functional Endoscopic Sinus Surgery-FESS	Department of ENT- Hinduja Hospital	04.09.10
7	Arthroscopic workshop	Dept. of Orthopedics, , KEMH & BOS	19.09.10
8	Spine surgery workshop	Dept. of Orthopedics, KEM Hospital	26.09.10
9	Plastic surgery workshop	Tata Memorial Hospital, Parel	12.12.10
10	Cochlear implant workshop	Department of ENT- Hinduja Hospital	19.12.10

- Library Holdings:

Total No. of Books:	245
No. of New Books purchased in 2010	23
No. of Journal titles:	03
Total No. of Journals:	111

Biochemistry

- Fifteen Under Graduate students from basis Sciences all over Mumbai participated in summer training in laboratory.
- GCLP Course: - 50 delegates from Maharashtra.
- Courses offered:
- 1st M.B.B.S. – 180, F.Y.P.T. – 40, D.M.L.T. – 10, M.Sc. (I) – 12, M.Sc. (II) – 12

- Library: - Total No. of Books: - 830, New Books: - 5

Cardiology

- Trainees- Nishad Chitnis (Kolhapur), Dr Rajashree Agaskar (Mumbai), Dr Mahima Chaajer (Baroda), Dr Maneesha Bhaya (Rajasthan), Dr RB Gondalia (USA), Dr Manish Jai (UK), Dr Tejas Deshmukh (USA)
- Courses offered and intake for the current year :
- D.M.Cardiology : At present three residents joined for the cardiology course.
- M.D.(Medicine:Allied) post for three months.
- IIIBPTh and BOTh students & MPT students for clinics.
- S.N.D.T. M.Sc. Nursing students are guided for their thesis work.
- Undergraduate students are long project course for KVPY and ICMR studentships.

Chest medicine

Training workshops on education

- M. Sc. Nursing students from SNDT University and Fortis hospital, Mulund regularly undertakes 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.
- M.Sc pharmaceutical medicine students are posted for carrying out clinical research
- Library – new additions- Clinicians’ guide to asthma- Kian Fan Chung, Introduction to bronchoscopy- Armin Ernst

Cardio Vascular Thoracic Surgery

Courses

- Mch – 6 students per year
- Extra corporeal perfusion technology- year
- Six months training imparted to students recommended by Bakkenn Institute
- 356 books available in the library

Clinical Pharmacology

Courses Offered

DM- Clinical Pharmacology 2 seats/ year

PhD-Applied biology (Mumbai University) – 1 seat filled

PhD-Clinical Pharmacology- 5 Seats advertised

MSc applied biology- 3 students registered

Fellowship in Clinical Sciences- 28 students registered and completed

DBT-CRTC workshop (8-12 March 10) – 52 participants completed the course

UG course in clinical research

Library

Total no of books = 105

Total no of guidelines = 28

Total no of periodicals = 11

Dermatology

- Courses, workshops, conferences, C.M.E. programmes
- MD in dermatology
- IADVL Clinical meeting Feb 2010.
- Workshop and hands on training on Neuronox injection
- Course on good photography

Endocrinology

- DM Endocrinology
- Diploma in diabetology
- Phd in Applied Biology
- MSc in Applied Biology

Library books- 452

Emergency Medicine

- 20 Overseas Observer
- 1 overseas Observer (Qualified in EM)
- 4 MSc Pharmamed students
- Critical care fellow posted as observer
- Observer in Rheumatology from Gujrat

ENT

International Observership

- Dr. Nilam Sathe – Trained as observer in Robotic surgery of Head and Neck and salivary endoscopic surgeries at Louisiana, USA IN October 2010.
- Dr. Arpit Sharma was awarded the Indian Society of Otolaryngology Pr Patrice Tran Ba Huy Foreign Travel Fellowship for year for observing Lateral Skull base Surgery at Hospital Lariboisiere
- The department organized the International conference on Head and Neck Surgery at Mumbai in Jan 2010

Gastroenterology

- International Observers and Elective trainees: Dr. Dimple Aher
- Courses offered and intake for the Current year: DM Gastroenterology; 1 student
- Collaborative projects with the Homi Bhabha institute

General Surgery

- Training a Fellow in Laparoscopic Surgery towards attaining a Certificate recognized by MUHS

Hematology

- Got Approval from the World federation of Hemophilia, for recognition of the Department of Hematology & IHH as an International Hemophilia Training centre (IHTC). Dr Farah Jijina Professor and Head in co-director.

Medicine and Medical Intensive Care unit

- The department organized CMEs on HIV-AIDS and Monsoon related illnesses
- Fellowships in critical care medicine under the aegis of the Maharashtra University of Health Sciences were successfully completed.
- Training offered: 4 batches of 6-8 District Medical Officer posted for MICU rounds in past 3 months as part of 6 swine flu Management Training Programmed Organized by Director (ME & MH) familiarize then in critical care.
- 5 students of MSc. Pharmaceutical Medicine posted in unit for research projects.

Microbiology

- Organized the inter-collegiate U.G quiz under the aegis of Maharashtra Chapter – Indian Association of Medical Microbiologists
- 14th December 2010 a workshop on “ Fire Safety” was conducted by the Disaster Management Cell, MCGM
- Nurses training workshop on HIV care (Holy Spirit Institute of Nursing Education)
- “EQAS in HIV” – Training workshop for Laboratory technicians from peripheral hospitals in collaboration with MDACS.
- EQAS proficiency panel testing workshop for ICTCs under KEMH
- Training workshop for technical officers on HIV-laboratory aspects.

- Training for all new ICTC laboratory technicians appointed by MDACS in collaboration with MDACS
- STI/RTI training workshop for laboratory technicians in collaboration with MDACS.
- Point of care training programme for HCWs on hand hygiene and BMW management

Postgraduate

- 6 candidates registered for M.D (Microbiology) during the year (full capacity). Pass percentage at M.D examination during the year was 66%. Nine students submitted their M.D dissertations.
- Project for Ph.D degree was submitted “ Study of Enterococcus with special emphasis on characterisation of Vancomycin resistance, lateral transfer of drug resistance and plasmid profiles”.
- Submitted Synopsis for M.Sc Degree for the project entitled “Study on the Kinetics of Human Immune Response to Streptococcal C5a Peptidase and its correlation with Anti -Deoxyribonuclease B (ADNaseB) and Anti - Streptolysin O (ASO) Titers”

Neonatology

- National Observers :
Dr. Namrata Patel (21/6/10 To 20/7/10)
Dr. Abhijeet Patkey (11-8-2010 To 10-9-2010)
Dr. Parmeshwar Kharat (23-09-2010 To 22-10-2010)
- Courses offered, intake for the current year and results :

Courses offered	Intake	Result
DM(Neonatology)	1	100%
MUHS Fellowship	2	100%

- *Library:* Total no of books: 177

Nephrology

- Department of Nephrology is recognized for DM nephrology, applied biology, MSc, Ph.D. by research.
- DM Nephrology 2 per year (Intake), 100% results

Neurology

- International observers and Elective trainees - 2
- Library - Departmental library holds 215 books

Neurosurgery

- International and national observers attend neurosurgical services. The Department has a Microneurosurgical laboratory for anatomical dissections, the only kind in Western India, is in great demand. The laboratory is recognized by Neurological Society of India and World Federation of Neurosurgical Societies (WFNS). Department recognized by WFNS education committee as Class A centre for training in skull base surgery 2008-2009.
- The Department has 4 recognised teachers for M.Ch. (Neurosurgery) of the University of Mumbai. Every year 2 candidates are admitted for the M.Ch. Neurosurgery course.
- The Departmental library has 2314 books and various National and International Journals.

Nursing

- School of Nursing, K.E.M. Hospital is conducting 3 ½ years revised G.N.M. Diploma Course with 6 months Internship.
Total numbers of Student: 1st year 99
 2nd year 85
 3rd year 68
 Interns 86
 Total Students 338
- All Sister Tutors of School of Nursing are involved for conducting Maharashtra Nursing Council Examinations as examiners and supervisors at all the centers of examinations in Mumbai and Maharashtra.

Maharashtra Nursing Council Exam Results – 2009

	1 st Yr.G.N.M. Exam – June 2010	2 nd Yr.G.N.M. Exam – June 2010	3 rd Yr.G.N.M. Exam – July 2010	Internship Exam Jan 2010
Candidate Appeared	88 Absent-1	68	85	72
Distinction	2	11	8	2
1 st Div.	15	40	66	37
2 nd Div.	19	13	10	30
Pass	20	-	-	3
Fail	31	4	1	-
Total Passed	56	64	84	72
Percentage	63.64	94.12 %	98.82 %	100%

Obstetrics & Gynaecology

7 foreign students were trained as observers.

Name of trainee	Place of origin
Keith Allan Aubin	United Kingdom
Jocheved Rosenkranz	German
Ms. Dalal Dahrooj	-
Ms. Shazli Shethwala	-
Syed Mohm. Faizaan Zabiullah	Indian
Azam Farish	Maldivian
Raniya Mahdi Imad	Maldivian

Library :

Books: 409

Journal: 121

Occupational Therapy

Courses offered, intake for the current year and results:

1. B.O.Th: 4 ½ years course, Intake Capacity: 40 seats
2. M.O.Th: 3 years course, Intake Capacity: 20 seats

Admitted for M.O.Th – I in 2010: 12 students in the following specialties:

Occupational Therapy in Musculoskeletal Sciences.

Occupational Therapy in Neurosciences.

Occupational Therapy in Developmental Disabilities.

3. Externship: 6 months duration for students from colleges affiliated to MUHS
Externs in 2010: 0

Results:

S. No	Year	Percentage of Passing
1	First B.O.Th	63%
2	Second B.O.Th	90%
3	Third B.O.Th	100%
4	Fourth B.O.Th	91%
5	MOTh Final Year	100%

- Library:
 - o 60 Journals (2 journals were subscribed annually: American Journal of Occupational Therapy: 6 issues/year & Archives of Physical Medicine & Rehabilitation: 12 issues/year)
 - o Departmental Library Holdings for Books: 397 Reference Books

Orthopedics

- MS and DNB Orthopedic programs were conducted successfully.

Pathology

- The Department of Pathology, besides undergraduate and postgraduate teaching, has the largest number of laboratory

services rendered to the patients and these for the sake of convenience are housed in different areas of the hospital.

Plastic surgery

- Courses offered and intake for current year: MCh Plastic Surgery. 2 students per year

Pediatric surgery

- Fellowship course in Pediatric Minimal Access Surgery (Total 2 seats) 1 SEAT filled. Candidate completed the course successfully.
- Arranged PG-CME with participation of MCh registered students from all over the country.

Pediatrics

International Observers and Elective trainees

Name of the trainee	Place of Origin	Purpose of training
Sweni Shah	University of Debrecen, Medical & Research Center, Hungary.	Observer & Elective trainee
Saran-Jo Stimpson	University of Massachusetts Medical School, 55, Lake Avenue, North, Worcester, MA 01655	Observer & Elective trainee
Krunal Patel	University of Massachusetts Medical School, 55, Lake Avenue, North, Worcester, MA 01655	Observer & Elective trainee
Sui Li	University of Massachusetts Medical School, 55, Lake Avenue, North, Worcester, MA 01655	Observer & Elective trainee
Linda Banh	University of Western Sydney, Australia	Observer & Elective trainee
Raniya Mahdi Imad	Dalian Medical University	Observer & Elective trainee
Azam Farish	Dalian Medical University, Dalian, Liaoning, China.	Observer & Elective trainee

Courses offered and intake for the current year:

MD & DCH University courses offered –15 MD and 12 DCH candidates joined.

Education (including student activities)

Clinical guide for 12 post graduate M.Sc. Pharmaceutical Medicine students under MUHS from August 2010, and co investigator in their respective research projects (three) in the department.

New courses added and intake for the current year

- MSC Pharmaceutical Medicine, PG degree course, Affiliated to Department of Pediatric Medicine for Research Project
- MUHS Fellowship Course in Respiratory, Genetic and Pediatric Intensive Care Unit.

Pharmacology

Participation in teaching and training activities:

- Department conducts teaching sessions every year for the students of IInd MBBS, IInd year OTPT and IInd year nursing students of the college.
- Organized and Conducted a lecture series on the subject of Pharmacology for nursing students of PD Hinduja Hospital & Research Centre (September-October 2010) supervised by Dr. Tejal Patel.
- Training of IInd MBBS students for regional and state level Pharmacology quiz by departmental faculty members.

Elective trainees

Sr No.	Name	Place of Origin	Purpose of Training
1.	Saima Shaikh	Ramnarain Ruia College	Dissertation

Following undergraduate students did Research Projects

- Mr Khushal Gohil, 2nd MBBS, (Kishor Vaidyanik Protsahan Yojana) KVPY project; teacher: Dr Sandhya Kamat.
- Mr Aditya Deshmukh, 2nd MBBS, KVPY project; teacher: Dr Padmaja Marathe
- Ms Aditi Sameriya, 2nd MBBS, KVPY project; teacher: Dr Tejal Patel.
- Ms Raksha Algeri, ICMR project; teacher: Dr Raakhi Tripathi

Workshops / CMEs / Guest lectures organized

- Update Ayurveda 2010, was jointly organized by Ayurveda Research Centre at Seth G.S. Medical College and K.E.M. Hospital, Mumbai and Dr. Sharadini Dahanukar Advanced Centre for Research Training and Services at T.N. Medical College and B.Y.L Nair Hospital, from 23rd to 27th November 2010.
- UK Sheth Oration, "Teaching New Tricks to the Old Dog" on 21st January by Dr Rajendra A. Badawe, Professor & Head Breast Service & Director, Tata Memorial Centre, Mumbai.

- AS Paranjpe Oration, "Transforming Molecules into Medicine" on 8th October 2010 by Dr Subhash Bodhankar, Professor and Head, Department of Pharmacy, Bharati Vidyapeeth, Pune
- Fifth Summer Training Programme for undergraduate students of science faculty (Biotechnology, Microbiology, Life Science, Zoology and Botany) (n = 14) was conducted from (8th June 2010 to 18th June 2010) to expose them to various aspects of animal and clinical research, and laboratory techniques.
- Several external experts gave guest lectures
- Workshop on Basics on GCP for all faculty members on 7th Jan 2010 with support from Quintiles
- Guest lecture entitled, "Fun to learn Acid base disorder" by Dr Sanjay Pandya, Consulting Nephrologist on 30th April 2010

Fellowships

- Dr. Snehalata Borkar and Dr. Saket Ghaisas, Assistant Professors in the department have been selected for Fellowship Programme in Clinical Sciences [FICS] under Department of Biotechnology [DBT]
- Courses offered

	Courses Offered	Intake for the current year	Results
1	MD Pharmacology	6	4 postgraduate students completed the course successfully in first attempt and received placement in leading pharmaceutical organizations
2	Summer Training Programme for undergraduate students of science faculty	14	Feedback indicated the course helped the students design research projects and
3	PhD Applied Biology	2	Ms Reshma Parekar submitted her thesis in the subject of Applied Biology to the Mumbai University
4	M.Sc. Applied Biology	1	Two students have submitted the synopsis

Library: Current holding 761 books. 16 new books were added this year in ARC library and Dept.

Together. The department published Handbook of Pharmacology and therapeutics

Physiology

- Dr. Munira Hirkani has completed the fellowship offered by GSMC FAIMER regional institute
- Courses offered & intake for the current year
- Postgraduate degree course in Human Physiology.
- Apart from 1st MBBS, integrated lectures for IIIrd MBBS, lectures were also held for FYBOTH /FYBPTh, III year OT, Bombay Hospital, Hinduja Hospital, Hiranandani, SNTD and KEM nursing students, Bachelor of Paramedical Technology Course, Tata Radiotherapy, radiology technicians of the Garware institute, technicians and nurses of the course in dialysis technology of the Gopikrishna Piramal Memorial Hospital on request.
- Dr.Munira Hirkani is involved as faculty for GSMC-FAIMER and Medical education Technology Cell

Physiotherapy

Courses Offered

- Bachelors in Physiotherapy – Four years + Six months of Internship (Intake capacity – 40)
- Masters in Physiotherapy – Three years (Intake capacity –18)
Speciality - PT in Musculoskeletal Sciences
- PT in Neurosciences
- PT in Cardiopulmonary Sciences
- *Library Books* - 500

Preventive and social Medicine

International observers and elective trainees :

- A structured training program has been developed for foreign students visiting GSMC /KEM for observership. Under this training program based on their duration of posting in PSM Dept., they are posted at various centers / activity locations such as Rural health training centre, Malvani Urban Health centre, Naigaon health centre, GOPD, IDSP and under five clinic.

Courses offered, intake and results

	Course offered	Intake	Results
1	M.B.B.S.	175	
2	Diploma in Public Health	2	100%
3	M.D. (PSM)		86%
4	Leadership in Public Health Management (certificate course) in collaboration with AVANI & MUHS (New course)	4	All were awarded certificate
5	Postgraduate course in Pharmaceutical Medicine		100%
6	Bachelor of Occupational therapy (B.O.Th.)	Lecture courses in Community Medicine conducted by PSM Dept.	
7	Bachelor of Physiotherapy (B.P.Th.)	Lecture courses in Community Medicine conducted by PSM Dept.	
8	B.Sc. Nursing (Hinduja Hospital)	Lecture courses in Community Medicine conducted by PSM Dept.	
9	B.Sc. Nursing (Bhagwati, Cooper Hospital)	Lecture courses in Community Medicine conducted by Malvani Health Centre	

- Internship
- One day training of interns on “Comprehensive abortion care” by Dr Seema Bansode Gokhe and Dr Anahita Chauhan
- 59 externs were trained during the year
- Participation in pulse polio immunization, local festivals (for providing point of care services) and national level sports activities

Library :- (Holdings) Stock of text books – 850 at KEM Departmental library, Malvani UHC - 80 , RHTC Sakwar - 58

Psychiatry*International observers/ elective training*

- Ms. Ylva Borge, Ms. Aina Noren Selberg

Courses offered and intake this year

MD (psychiatry) – 2

DPM(psychiatry) –2 *New courses*

- Workshop on “Communication skills” for medical students at the Shidori I &II on 14 & 15th September, 2010
- Workshop on Stress Management for MCGM Employees since December 2010.

Library

Books on psychiatry and allied subjects: 209

Radiology

- Medical Education :
- MD (Radiodiagnosis) : 4
- DMRD : 5
- Number of students observers/Elective Trainees : 61
- c) The Department of Radiology conducts one year Fellowship Courses in various sub-specialities of Radiology affiliated to the Maharashtra University of Health sciences (MUHS)

Surgical Gastroenterology

- Department got renewal of accreditation for three years from National Board.
- First Fellowship student (Fellowship in Minimal Access Surgery). Dr Mahesh Kedare passed examination and was honored with the fellowship from MUHS

Transfusion medicine

- Dr. Jayashree Sharma, Professor and HOD, has given a guest lecture on “Effective Inventory Management in Blood Bank at Indian Society of Blood Transfusion and Immunohaematology conference at Hyderabad on 12.11.2010.
- Lectures are taken for second M.B.B.S. students , D.M.LT. students, O.Th. and P.Th. students and the nursing students from S.N.D.T.
- C.M.L.T. students and students of Biotechnology from different Colleges come for observership.

- Technologists take specialized training in “Component Preparation and platelet pheresis.”
- The department conducts training programmes for staff Nurses and Technicians on “Blood Bank procedures” and for Clinical Residents and Blood Transfusion officers on “Rational use of Blood and Blood products”.

Urology

- Participation in Mumbai Urological Society meetings every 3rd and 4th Saturday
- Training of observers from India and abroad
- Superspeciality training collaboration with nephrology, the Tata Memorial Centre and BYL Nair hospital.

Research

Research

Anesthesia

- The effects of intravenous granisetron on the sensory and motor blockade produced by intrathecal bupivacaine
- The efficacy and safety of bupivacaine –clonidine combination versus bupivacaine alone in caudal block in children: A randomized controlled prospective double blind trial
- Comparative study of malleable stylet versus gum elastic bougie with or without use of cricoid pressure for ease of tracheal intubation
- Effect of intravenous clonidine during laparoscopic cholecystectomy
- Comparison of USG guided versus conventional IJV cannulation in pediatric patients posted for cardiac surgery
- Influence of resident training on anaesthesia induction times
- Comparative study of granisetron versus combination of granisetron and dexamethasone in controlling postoperative nausea and vomiting in patients operated under general anaesthesia
- Use of Intravenous rocuronium priming to accelerate neuromuscular blockade in children
- A comparative study of clonidine versus fentanyl as adjuvants to bupivacaine in spinal anaesthesia for lower limb orthopaedic surgeries
- Comparative study of oral premedication in children: Midazolam versus ketamine
- A Comparative study of sevoflurane and propofol for LMA insertion in adult patients
- Comparison of injection rocuronium and injection succinyl choline for intubating conditions and haemodynamic stability
- Comparison of Truview, McCoy and McIntosh laryngoscopes use in patients using cervical spine immobilization
- To compare the ease of tracheal intubation facilitated by the gum elastic bougie or stylet while using Truview laryngoscope
- Use of Intravenous clonidine for prolongation of spinal anaesthesia with 0.5% bupivacaine
- Comparison of 0.75% Ropivacaine + fentanyl with Bupivacaine (0.5%) for spinal anaesthesia in lower limb surgeries.
- Comparison of Bupivacaine vs. Ropivacaine in caudal block in children.
- Randomized study for evaluation of efficacy as prophylactic antiemetic for post-operative nausea & vomiting to patients undergoing lap surgery.
- Comparison of efficacy of IV paracetamol and Diclofenac for post-operative Analgesia in Neurosurgeries
- Tei index & ejection fraction for assessment of LV function in MS patients undergoing MVR.
- Comparison between Tranview EVO2 & McCoy laryngoscope for intubation using 3 stylets Malleable, straight & directable stylets.
- Comparison of efficacy of Ropivacaine & Bupivacaine for pre-incisional infiltration in tonsillar fossa for post-operative Analgesia for tonsillectomy in paediatric age group
- Comparison of Ropivacaine vs. Bupivacaine for Post-op pain relief as peritoneal instillation in laparoscopic Cholecystectomy - A randomized controlled trial.
- Role of Anesthesiologist in management of low back pain using epidural steroid.
- Randomised prospective study of patient controlled epidural analgesia using fentanyl and bupivacaine vs. patient controlled analgesia with IV Morphine for Major Abdominal surgery.
- Comparison of efficacy of a Ramosetron vs. ondansetron in prevention of anticancer induced vomiting
- Comparison between palonosetron and Ondansetron in PONV
- Comparison of haemodynamic responses of hypertensives & Normotensive patient using Macintosh & LMA & Lightwand.
- Efficacy of pre-treatment to prevent withdrawal response of Rocuronium, a comparison of fentanyl with ketamine
- Role of 0.2% Ropivacaine in thoracic epidural anaesthesia in off pump CABG patient.
- Comparative study between Truview Laryngoscope vs. Macintosh laryngoscope in view of haemodynamic response & POGO Scoring.

Anatomy

Ongoing Projects

- A Study of Lumbar Sympathetic Trunk – Variations and Clinical Features
- Microanatomical features of Pituitary Gland
- Efficacy of Multimedia Teaching in Microanatomy: a comparison with Traditional Teaching
- A study of Development of Long Bones in Fetuses
- A Study of Ansa Cervicalis and its Variations in Cadavers
- Surgical Anatomy of Ulnar Nerve in the Cubital Tunnel
- Anatomy Quiz – A Novel Method of Teaching Anatomy

- A Study of Variations of Subclavian Artery in Cadavers

Completed student- research projects

- A Morphometric Study of Hepatic Vasculature on Cadaveric Liver
- The Morphology and Relations of Ilio-cava Junction to Aortic Bifurcation and Lumbosacral Vertebrae
- Anatomy of Sciatic Nerve in Gluteal Region and Back of Thigh - A study on Indian Cadavers
- A Morphometric Study of Bony Landmarks Around Cavernous Sinus in Cadavers

Ongoing student- research projects

- A Study of Anatomical Variations of Radial Nerve in Cadavers
- A Study of the Popliteal Artery in Cadavers
- A Study of Left Coronary Artery and its Branches in Cadavers
- A Morphometric Study of Dry Human Sacra
- A Morphometric Study of the Right Atrioventricular valve in Cadavers
- A Morphometric Study of the Human Trachea in Cadavers
- A Study of External Carotid Arteries in Cadavers
- A Morphometric Study of the Arch of Aorta and its Branches in Cadavers

Collaborative: [DBT-funded]

- Isolation, expansion and transdifferentiation of mesenchymal stem cells from umbilical cord matrix

Biocemistry

Ongoing Research Projects

- Properties and toxicity of small amyloid peptides.
- Sperm membrane integrity in male factor indicators and unexplained infertility.
- Predictive value of Biochemical Markers in cardiovascular disorders and renal disorders.
- Prediction of ovarian response and enhancement of implantation rates in assisted reproductive techniques (ART).
- Study of Biochemical parameters in young hypertensives
- Evaluation of renal function in pre – eclampsia.
- Study of heavy metals in chronic Renal failure.
- Studies in Biochemical Parameters from Breast Milk of Malnourished Mothers..
- Comparison of changes in composition of red blood cell membrane and plasma lipids between children with PEM and normal children.

Cardiology

Ongoing Research Projects

- A Phase III Evaluation of the anti-anginal efficacy and safety of oral administration of Ivabradine compared to placebo on top of a background therapy with calcium antagonists (amlodipine or nifedipine) in patients with stable anginal pectoris
- Study with an ERA in Pulmonary arterial Hypertension to Improve clinical outcome (Open Label) Long-term single-arm open-label extension study of the SERAPHIN study, to assess the safety and tolerability of ACT064992 in patients with symptomatic pulmonary arterial hypertension.
- PREDICT (Perceive risk of Ischemia & Bleeding in acute coronary syndrome patients) study.
- A Comparison of Prasugrel and Clopidogrel in Acute Coronary Syndrome (ACS) Subjects with Unstable Angina/ Non-ST-Elevation Myocardial Infarction (UA/NSTEMI) who are medically managed-The TRILOGY ACS study.

Completed Research Projects

- Oasis -7 Study: A randomized, multinational, double-blind study, comparing a high loading dose regimen of clopidogrel versus stander dose in patients with UA or NSTEMI or STEMI managed with an early invasive strategy.
- TIMACS Study: An international, randomized, double-blind study evaluating the efficacy and safety of fondaparinux sodium vs control therapy and glucose-insulin-potassium infusion versus control in a broad range of patients with ST segment elevation acute myocardial infarction.
- Recon oil Study: A study to evaluate the effect of Recon oil lipid profile in patients of Dyslipidaemia.
- Efficacy & Safety evaluation of fixed dose combination of Atorvastatin and Ramipril in Hypertensive with Dyslipidaemia.
- Marico Study: A proof of Concept, prospective, Double Blind, Controlled and Randomized Study to evaluate the LDL-Cholesterol lowering activity of Saffola oil (Blend of 80% Rice Bran oil and 20% Safflower Oil) in patients with Hyperlipidemia.

Cardiovascular and Thoracic Surgery

Ongoing projects

- Development of an experimental model employing vascular endothelial cells for its potential use in Tissue Engineered conduits.”
- Safety and Efficacy of Intracoronary and Intramyocardial delivery of autologous bone marrow mononuclear cells in patients with triple vessel coronary artery disease and left ventricular dysfunction undergoing surgical revascularization.
- Randomized study to assess efficacy of three different ablative procedures to treat atrial fibrillation in patients with valvular heart disease

Chest Medicine

Ongoing Projects

- Asthma prevalence study in school children
- Study of prevalence of Hepatotoxicity in patients on Anti TB Treatment.
- Sputum Eosinophils & CRP in chronic stable bronchitis
- Study of periodic limb movements during polysomnography in stable COPD.
- Airway resistance- Spirometry versus body plethysmograph in patients with asthma.
- Comparative study in the analysis of T spot TB in low and high risk subjects- pilot study

Completed Projects

- A study of pulmonary sequelae of ARDS patients
- A study of prevalence of auto-antibodies in patients with tuberculosis

Clinical Pharmacology

Academic projects (Ongoing)

1. Evaluation of the activity of Cytochrome P450 2D6 (CYP2D6) activity in normal, healthy, adult Maharashtrian, Gujarati and Marwari subjects (Western India) by phenotyping and genotyping.
2. Evaluation of pharmacokinetics of single dose Primaquine 15 mg in patients with hepatic dysfunction
3. Evaluation of pharmacokinetics of single dose Primaquine 15 mg in healthy human volunteers
4. Application of proteomics to aid biomarker discovery in patients of P.vivax and P. falciparum malaria.
5. Evaluation of children with learning disabilities using psychomotor tests on Mindomatics™ software.
6. Audit of therapeutic drug monitoring of anticonvulsants at tertiary referral center.
7. Pharmacogenomics of CYP2C19 with pharmacodynamics of clopidogrel.
8. Evaluation of pharmacokinetics of single dose Primaquine 15 mg in patients with renal dysfunction.
9. To evaluate the factors that motivate normal healthy volunteers to consent for phase I trials.
10. Pharmacokinetics of Primaquine in patients with vivax malaria.
11. Evaluation of polymorphisms of CYP2B6 and CYP3A5 in HIV-1 infected patients and association with Nevirapine adverse events.
12. Evaluation of polymorphism of Cytochrome P4502B6 by genotyping in HIV patients on Efavirenz therapy and co-relating with safety.
13. Evaluation of Pharmacokinetics of anti-malarial drugs in children.
14. Evaluation of the allele and genotype frequency of liver enzyme CYP2C9 in a Western India population.
15. Association of genetic polymorphisms of cytochrome P450 2C9 (CYP2C9) with diphenylhydantoin induced adverse reactions in epileptic patients.

Sponsored projects

1. Comparative pharmacokinetic behavior of oral sustained release tablet formulation of metoprolol succinate with marketed extended release formulation in healthy human volunteers.(Gattefosse India Pvt, Ltd)
2. Analysis and search for leads from research project reports through the Medicinal and Aromatic Plants Task Force. (Department of Biotechnology, New Delhi)
3. Open-Label, Randomized, Dose Escalation Phase I Study in Healthy Adult Volunteers to Evaluate the Safety and Pharmacokinetics of a Human Monoclonal Antibody to Rabies (SII RMab) in Comparison to Human Rabies Immune Globulin Administered in Conjunction with Rabies Vaccine (RABIVAX®) (Serum Institute of India)
4. Pharmacogenomics of anti-epileptic drugs: Role of ABCB1, CYP2C9, CYP2C19, SCN2A and SCN1A in optimizing the therapy. (Department of Biotechnology, New Delhi)
5. Pharmacogenomics of CYP2C9, VKORC1 and CYP4F2 with adverse effects of warfarin. (Department of Biotechnology, New Delhi)
6. Comparative evaluation of efficacy and primaquine SR tablets vs Primaquine conventional tablets in the prevention of relapse of plasmodium vivax malaria. IPCA Labs, Ltd)

7. Phase II Multi centre, Randomised dummy controlled and clinical trial to evaluate safety, tolerability & activity of RPM 02/08 with chloroquine in patients with P vivax malaria. (Indian Council of Medical Research)
8. Assessment of cytochrome P450 genotype (CYP 2E1) & relation to succceptibility to anti tuberculosis drug induced hepatotoxicity in patients with tuberculosis at a tertiary referral centre. (Department of Biotechnology, Govt of India, New Delhi)
9. Pharmacogenetics of Adverse Drug Reactions: Role of drug metabolizing enzymes and VKORC1 polymorphisms in reducing drug toxicity due to antitubercular drugs and Warfarin. . (Department of Biotechnology, New Delhi)
10. Nuclear Magnetic Resonance spectral analysis of urine samples from malaria patients admitted to KEM Hospital, Mumbai (Pilot Study). (TATA Institute of Fundamental Research)

Dermatology

Sponsored

- A phase III randomized, double blind, Placebo Controlled, One way Crossover, Multi-Dose, Multi-centre, Safety and Efficacy, study of T1hmAb administered intravenously in patients with active moderate to severe psoriasis.

Academic studies

- A Single Blind Comparative Study Of Efficacy And Safety Of Autologous, Noncultured, Nontryptinised, Melanocyte Plus Keratinocyte Grafting Technique Followed By NB-UVB Therapy With Suction Blister Technique Followed By NB-UVB Therapy In Stable Vitiligo Patients.
- A Single blind Randomised Prospective comparative study of efficacy and safety of Modified Kligman's formula (2% Hydroquinone+1% Hydrocortisone+ 0.025% Tretinoin) with and without Glycolic acid peel in Melasma and its clinico-dermatoscopic evaluation.
- Efficacy of Q-Switched Nd-Yag Laser for removal of tattoos.
- Efficacy of High intensity UV therapy in localised stable vitiligo management.
- Efficacy of High intensity UV therapy in psoriasis management.
- Efficacy of Harmony PIXEL laser in acne scar management.
- Usefulness of Phototrichogram in diffuse type of hair loss .
- Usefulness of Phototrichogram in androgenic alopecia. .
- Dermatoscopic study of hypopigmented lesions of vitiligo and leprosy and its clinicopathological correlation
- Thesis on Genodermatosis
- Comparative study of HLA typing in stable and unstable vitiligo
- Clinico Dermatoscopic and pathological correlation in dermal hyperpigmentory disorders
- Clinico Dermatoscopic and pathological correlation in hypopigmented disorders
- Thesis on SCORETEN in SJS
- Dermatoscopic study of hypopigmented lesions in vitiligo and leprosy

Endocrinology

Ongoing projects:

- 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
- Prevalence of Cushing syndrome in patients with Type 2 DM in Indian patients.
- Study of efficacy of ketoconazole and/or cabergoline in uncured Cushing disease
- Efficacy of Sterotactic conformal radiotherapy (SCRT) compared to conventional radiotherapy, in minimizing late sequelae in children and young adults with brain tumors (SCRT Trail)
- Molecular Genetics in Vitamin D and Bone Mineral study.
- Evaluation of Salivary Cortisol in the diagnosis of Cushing syndrome.

Gastroenterology

Ongoing projects

- AST and ALT levels in normal healthy volunteers
- Anorectal manometric parameters of healthy adult volunteers.
- Intestinal permeability in Portal Hypertension compared with that in normal subjects
- Evaluation of Pharmacokinetics of single dose Primaquine (15mg) in patient with hepatic dysfunction .
- Histopathology features of acute on chronic liver failure and its relation to clinical outcome.
- Characterization of minimal hepatic encephalopathy standardization and validation of the psychometric hepatic encephalopathy score (PHES) A multicenter Indian Study.

- Immune events, transcriptomics and biomarkers in hepatitis E pathogenesis.
- Study of colonic transit time on patients of irritable bowel syndrome and their correlation with Bristol stool score.
- To study the role of socioeconomic factors in patients of hepatic venous outflow tract obstruction (HVOTO).
- Evaluate and compare the acid inhibitory effects of Rabeprazole and Pantoprazole with reference to CYP2C19 phenotype and genotype status in normal healthy.
- An association of Immunogenetic and autoimmune parameters with clinical manifestations in Inflammatory Bowel Disease (IBD) patients from Western India.

Completed projects presented in conferences

- Non cirrhotic portal fibrosis may not be a dying disease.
- Predicting response of therapy in achalasia cardia on High Resolution Manometry (HRM)
- Assessment of nutritional status in Patients with ulcerative Colitis.
- Application of newer classification of achalasia cardia
- Role of Anorectal Manometry in predicting outcome of colostomy closure.
- Hepatic Venous Outflow Tract Obstruction (HVOTO) & pregnancy outcome in Indian Women a tertiary care centre in India.

General Surgery

1. Efficacy of banding in treatment of hemorrhoids/Prospective – thesis for M.S.
2. Clinical study of intestinal obstruction in a tertiary centre - thesis for M.S.
3. Clinical Pharmacology M.Sc. Students project : Epidemiology of pancreatitis in a single surgical unit in a tertiary referral center
4. To compare the efficacy of two standard drug combinations in preventing surgical site infection in small bowel perforative peritonitis in single surgical unit at a tertiary care centre- student research project.
5. A randomized parallel group study of 2-octylcyanoacrylate versus conventional non-absorbable suture in skin closure of port incision in elective laparoscopic surgery. Student research project.
6. Role of Ulinastatin in acute pancreatitis Company sponsored multicenter study.
7. Quality of life in long term survival of severe necrotizing pancreatitis. Student research project.

GI Surgery

- Presented paper on Laparoscopic adrenalectomy in large adrenal tumors at Annual Meeting of SAGES and World Congress of endoscopic surgery, April 2010
- Surgery or endotherapy in patients with chronic pancreatitis
- Laparoscopic surgery for achalasia cardia
- Devascularisation – still an option in patients of bleeding esophageal varices
- Laparoscopic cardiomyotomy in a patient of achalasia cardia with cirrhosis of liver
- Thoracoscopic retrieval of impacted dentures

Hematology

Collaboration projects

Completed Projects:

- Clinical and laboratory profile of PNH
- Molecular remission with Arsenic trioxide in Acute Promyelocytic Leukemia (Indian APML study group – IASG)
- The effect of pharmacological agent - hydroxyurea on the phenotypic and genotypic expression of the sickle Hemoglobinopathies
- The effect of pharmacological agent - hydroxyurea on the phenotypic and genotypic expression of the thalassemia Intermedia patients (Hemoglobinopathies)
- Effect of Hydroxyurea on the transfusion requirements in patients with severe HbE-B thalassemia: a genotypic and phenotypic study. K Italia, F Jijina, R Merchant, S Panjwani, A Nadkarni, P Sawant, S Nair, K Ghosh, R Colah. J Clin Pathol 2010;63: 147 - 150.
- Exposure to Hydroxyurea during Pregnancy in sickle-B thalassemia: A report of 2 cases. K Italia, F Jijina, Chandrakala S, A Nadkarni, P Sawant, S nair, K Ghosh, R Colah. J Clin Pharmacol 2010;50: 231 - 235.
- Chromosomal breakage study in children suspected with Fanconi anemia in the Indian population. S Korgaonkar, K Ghosh, F Jijina, Babu Rao. J Pediatric Hematol Oncol 2010.
- The effect of UGT1A1 promotor polymorphism on bilirubin response to Hydroxyurea therapy in hemoglobinopathies. K Italia, F Jijina, D Jain, A Nadkarni, M Mukherjee, K Ghosh, R Colah. J Clin Biochemistry 43(2010); 1329 – 1332.
- Chandrakala.S, Jijina Farah, K. Ghosh, Diffuse Alveolar Hemorrhage with severe hemophilia - letter to the editor ;

Hemophilia 2010 ,1-3

Publications

- Chandrakala.S, Jijina Farah, K. Ghosh, Diffuse Alveolar Hemorrhage with severe hemophilia - letter to the editor ; Hemophilia 2010 ,1-3
- Chandrakala. S, Jijina Farah, Gemtuzumab ozagomycin published in Acute Myeloid Leukemia Education book 2010
- Ophthalmic Surgeries in bleeding Disorder; Chandrakala.S, Jijina Farah, K. Ghosh at 32 nd Annual Conference of Mumbai Haematology Group, Mar 09
- A peculiar case of Acute myeloid leukemia of dendritic cell origin at 32nd Annual Conference of Mumbai Haematology Group, March 09
- A series of sickle cell hepatopathy: Clinical presentation, treatment and outcome from a tertiary centre in western India at 33rd Annual Conference of Mumbai Haematology Group, March 2010
- Mallikarjun K B, Jijina F, Chandrakala S, Ghosh K , Refractory Iron Deficiency Anemia report of 2 cases at 33rd Annual Conference of Mumbai Haematology Group, March 2010
- Sanyal S, Aruna V, Jijina F, Chandrakala S, Ghosh K. Rare presentation of a common disease. 33rd Annual Conference of Mumbai Hematology Group, March 2010

Medicine*International-Multicentric*

- A Multicenter, Double –Blind, Randomized, Active-Controlled Study to Evaluate the Safety and Antiretroviral Activity of MK-0518 versus Efavirenz in Treatment Naïve HIV-Infected Patients, Each in Combination with TRUVADAtm
- A Multi-center cross sectional survey of HIV-1 virus co-receptor tropism in patients infected with Clade-C HIV-1 at selected site in India
- Protocol AVX-301 –A phase 2b/3, randomized, double blind, dose confirming study of the safety, efficacy and tolerability of apicitabine versus lamikivudin in treatment-experienced HIV-1 infected patients with the M184V/I mutation in reverse transcriptase.
- Protocol ALN-101-Clinical trial on Interferon –Alfa N3 in severe Acute Influenza
- Prevalence of lactic acidosis and hyperlactatemia in patients on antiretroviral therapy.

National –ICMR

- Prevalence of HLA amongst HIV positive treated vs. untreated patients.
- Prevalence of HLA amongst HIV positive patients who developed Nevirapine reaction vs. patients who did not have any reaction to Nevirapine.

Others:

- Golimumab in RA
- Metalloproteinase in OA and RA
- Clinical profile of Psoriatic arthritis
- QoL in RA
- Allopathy Vs other therapies in RA
- Lupus nephritis
- Cardiac involvement in SLE
- Clinical profile of patients with systemic sclerosis and MCTD
- Carotid intima media thickness in RA
- Triage in EMS
- Emergency management of atrial fibrillation
- AF clinical profile and management
- ACS Registry
- To study the prevalence of microvascular complications in newly diagnosed NIDDM patients with short term Prospective Course following Standard treatment.
- Study of Clinical Profile of patients with systemic sclerosis and MCTD with Predominant Systemic sclerosis and effects of therapy on the same.
- Study of Cardiovascular involvement in newly diagnosed cases of SLE with 1 year follow up Study of Clinical Profile disease activity in newly diagnosed cases of RA with 1 year follow up and outcome.
- To Study the clinical profile in newly diagnosed cases of Lupus nephritis and therapy with 1 year follow up.
- To study the clinical profile and disease activity in newly diagnosed cases of R.A. with one year follow-up.
- Thrombophilia Profile in Young patient with thrombosis.
- Neurological Manifestation in HIV.
- Study of LVH in Hypertension.

- Study of Hypertensive Crises
- ABPI in Essential Hypertension.
- Study of Clinical and Laboratory Profile of patients with Aortoarteritis.
- Clinical profile of GBS outcome in Plasmapheresis vs IVIG.
- Monocuticular Arthritis- Course and Outcome
- Rifaximin vs lactulose in acute Hepatic encephalopathy
- CNS involvement in HIV infection

Microbiology

Ongoing projects

- NABL accreditation
- A multicentric national project on 'A population-based surveillance of invasive disease caused by *S. pneumoniae* or *H. influenzae* or *N. meningitidis* in children <5 years of age in India'.
- Ongoing international collaborative project on "Multilocus sequence typing of Groups A,C and G Streptococcal clinical isolates from Mumbai" with Prof. K. S Sriprakash, Head, Bacterial Pathogenesis Laboratory, Queensland Institute of Medical Research, Brisbane, Australia
- In vitro study of anti-dermatophytic activity of extracts of *ocimum teniflorum*, *cynodon dactylon* and *cassia fistula* – ICMR student project
- Comparison of an automated blood culture system (BACTEC 9050) with the conventional blood culture for rate and time to recovery of aerobic bacteria from blood.
- Comparison of PCR and conventional blood culture for detection of bacterial pathogens in blood
- The ever increasing reservoirs in the health care environment – The Role of Health Care Workers
- Utility of a simple rapid ICT test (Enterocheck WB) for typhoid fever in comparison to conventional Widal test.
- Diagnostic titre of 'H' & 'O' agglutinins in the Widal test for the diagnosis of typhoid fever.
- SCC mec typing of MRSA
- Biofilm forming capacity of Staphylococci
- Identification of *Malassezia* spp in patients with *Pityriasis versicolor*.
- Real time PCR for the detection and DST of MDRTB in collaboration with Laboratory Medicine, BARC
- Pharmacokinetics of colistin after intravenous administration of colistimethate sodium in subjects with nosocomial infection caused by multi-drug resistant gram negative bacilli. In collaboration with clinical pharmacology and sponsored by Cipla Limited, Mumbai.
- Bacteriological study of pyoderma cases with special reference to molecular typing of beta hemolytic streptococcal isolates at a tertiary care center in Mumbai.
- Disinfectant properties of cow dung ash

Completed research projects / dissertations

- Study of HIV viral load in asymptomatic treatment naïve individuals with low CD4 counts.
- Microbial aetiology of diabetic foot ulcers.
- Study of vaginal candidiasis, its species and anti fungal susceptibility pattern.
- Multi-drug resistant organisms causing VAP- risk factors, and outcome.
- Comparative study of PBS, Optimal and PCR for the diagnosis of malaria.
- CRBSI- incidence, risk factors, aetiology and outcome.
- Study of Hepatitis-B in patients attending hepatology OPD.
- Bacteriological profile of LRTI with special reference to candida
- Role of biophosphates in preventing in-vitro drug resistance transfer among nosocomial isolates. (MUHS)
- Evaluation of antibacterial activity of betadine against bacteria commonly found in surgical site infections. (ICMR student project)
- Time to sputum conversion and sterility in smear positive pulmonary tuberculosis patients following commencement of treatment under DOTS
- Microscopic observation of drug susceptibility [MODS] assay for *Mycobacterium tuberculosis*- Its utility in resource poor settings.
- Study of cutaneous mycoses in HIV positive and HIV negative individuals
- Spectrum of parasitic diarrhea in seropositive patients with special reference to staining techniques for microsporidia
- Prevalence of candidaemia in haematology patients and ICUs in a tertiary care hospital.
- Bacteriological profile of respiratory specimens in intubated patients in MICU
- 'To determine if repeated exposure to an antimicrobial agent leads to the development of drug resistance in bacteria.' ICMR-STs project

- 'Role of biophosphonates in preventing in-vitro drug resistance transfer among nosocomial isolates.' MUHS-Short Term Research studentship project
- 'Utility of a rapid Immunochromatography test (Paramax-3) for the diagnosis of malarial fever.'
- Comparison of different antimicrobial prophylactic regimens in preventing surgical site infection in clean and clean-contaminated surgeries.
- Spectrum and resistance pattern in non-fermenting gram negative bacilli in a tertiary care teaching hospital.
- OSPE on Gram's stain for II MBBS students.
- Prevalence of Non Tuberculous Mycobacteria in new smear positive pulmonary tuberculosis patients with and without HIV and a comparison of their clinical, radiological and laboratory parameters.

Collaborations

- International: Bacterial Pathogenesis Laboratory, Queensland Institute of Medical Research, Brisbane, Australia on "Multilocus sequence typing of Groups A,C and G Streptococcal clinical isolates from Mumbai" with Prof. K. S Sriprakash
- National : Multicentric research project under CMC Vellore, Pulimood Research Laboratory on 'A population-based surveillance of invasive disease caused by *S. pneumoniae* or *H. influenzae* or *N. meningitidis* in children <5 years of age in India'.
- Regional:
 - Association of HLA with HIV in collaboration with National Institute of Research in Reproductive Health (ICMR), Mumbai (sponsored by DBT)
- Study on utility of RTPCR for the diagnosis and detection of drug resistance to *M. tuberculosis* with BARC, Mumbai (continued)

MICU

- Open label, randomized dose escalation phase I study in adult volunteers to evaluate safety and pharmacokinetics of human monoclonal antibodies to rabies in comparison to human immune globulin in conjunction with rabies vaccine.- Collaborations pharmacy dept./ Bharat serum
- Open labeled randomized controlled trial of comparison between leucocytes reduced blood transfusion & regular non leucocyte reduced blood transfusion in severe falciparum malaria. - ICMR project.
- Colistine pharmacokinetics in critically ill patients admitted in MICU. - Clinical pharmacology/ cipla ltd.
- Beside estimation of glomerular filtration rate in hospitalized elderly(age ≥ 60 yrs) patients and effect of co- morbid conditions and drug treatment on the glomerular filtration rate. - MICU
- Effect of glutamine 51 plementatic in critically ill patients. - MICU/ Medicine dept.
- Adverse events in MICU - ICMR project
- Hemodynamic monitory using pulmonary artery catheter in patients of leptospirosis with ARDS - ICMR project.
- Adverse drug events in Geriatric indoor patients.
- Study of Myocardial function in patients of Sepsis.
- Clinical profile, complications, outcome with assessment of SOFA score of patients admitted in MICU for invasive ventilation.

Neonatology

Ongoing projects :

- Intrapartum oropharyngeal & nasopharyngeal suctioning in neonates born through meconium stained amniotic fluid : Indian scenario.
- Comparative analysis of efficacy of NCPAP vs NIPPV in VLBW babies with RDS – A RCT
- Neuromotor assessment by Infant Neurological International Battery (INFANIB) in neurologically abnormal term infants at 3 months of age.
- Role of mannitol therapy in Perinatal Asphyxia

Collaborations :

National :

- Newborn Screening in collaboration with Indian Council of Medical Research.
- Association of HLA with HIV infection in collaboration with National Institute for Research in Reproductive Health Indian Council of Medical Research.
- Ophthalmic evaluation of normal babies and High Risk NICU graduates in collaboration with KB Haji Bachooali Charitable Ophthalmic and ENT hospital, Mumbai.
- "Comparison of polymerase Chain Reaction (PCR) and conventional blood culture for detection of bacterial pathogens in blood" with Dept. of Microbiology.

Nephrology

- 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)
- Erythrocytosis in Post-transplant.
- Post – Transplant new onset diabetes.

Neurology

Ongoing projects

- A multicenter, double-blind, randomized, placebo-controlled, 4 parallel groups, dose-ranging trial evaluating the efficacy and safety of brivaracetam used as adjunctive treatment at doses of 5, 20, and 50mg/day in b.i.d. administration (oral tablets of 2.5 or 10 mg) for a maximum of 7 weeks in subjects from 16 to 65 years with refractory epilepsy suffering from partial onset whether or not secondarily generalized – Brivaracetam Trial - PPD
- Randomized, double blind placebo controlled parallel group multi center study to evaluate the efficacy safety at tolerability of RWJ 3333 69 at adjunctive therapy in subjects with Partial seizure followed by an open labeled extension study
- Prospective, multicentre, open label, clinical study to evaluate efficacy and safety of R- TPR-011 in patients with multiple sclerosis.
- A phase 2 multicenter, double blind, placebo controlled, Dose ranging study to Determine the safety and efficacy of Daclizumab HYP (DAC HYP) as a monotherapy treatment in subjects with Relapsing – Remitting Multiple Sclerosis (MS).
- A double blind, randomized, placebo controlled multicenter study to assess the efficacy and safety of adjunctive zonalbamie in paediatric partial onset seizures.

Neurosurgery

Scientific evaluation of series of patients undergoing the surgical management of complex neurosurgical tumors and lesions are being conducted. A number of innovative surgical techniques have been devised and evaluated.

Obstetrics & Gynaecology

Dr. N. M. Mayadeo

1. Task Force Study “Prevalence of Infertility in India”.
2. Phase III-Multicentre Clinical Trial with Subdermal Single-Rod Contraceptive Implant – Implanon.
3. A study on Teenage Pregnancy & its outcome.
4. Phase IV Multicentric Study with Centchroman
5. Assessment of training of women & their caregivers in rural Maharashtra regarding prevention & management of post-partum haemorrhage (PPH) & care of low birth weight babies in low resource setting
6. A Simple Behavioural Intervention to reduce Episiotomy rates.
7. Introduction of medical methods of safe abortions at district hospitals of India”.
8. Evaluation of Progesterone Vaginal Ring (PVR) as a new contraceptive option in India’
9. Tranexamic acid for the treatment of postpartum hemorrhage: An International, randomized double blind, placebo controlled trial
10. Hospital based surveillance of female genital fistula – An ICMR task-force project

Dr. A. R. Chauhan

1. Principal Investigator in clinical trial: “Use of Human Fetal Samples as Referral Controls during Differentiation and Pre- clinical Evaluation of Human Embryonic Stem Cells” in collaboration with National Institute for Research in Reproductive Health
2. Principal Investigator in clinical trial: “Cryopreservation of Primordial Follicles and In Vitro Culture of Primordial Follicles” in collaboration with National Institute for Research in Reproductive Health
3. Principal investigator in clinical trial: “To establish normal ranges for lymphocyte subsets in cord blood obtained from aborted fetuses of 15- 20 weeks of gestation which can be utilised for the antenatal diagnosis of primary immunodeficiency disorders”, in collaboration with Institute of Immunohaematology

Dr. H. K. Chaudhari

1. Co-investigator in NIRRH research project “Collectins and other immune related proteins in immunoregulation of pregnancy maintenance”
2. Clinical collaborator in NIRRH research project “Association of Chlamydia trachomatis infection and HLA in the manifestation of reproductive complications”
3. Clinical collaborator in NIRRH research project “Association of host immunogenetic factors with Human papillomavirus (HPV) infection in development of cervical cancer in Indian women ”

4. Investigator in NIRRH research project “Embryo loss due to epigenetic disturbance in the male germ line”

Dr. Himangi S. Warke

1. Clinical collaborator with NIRRH for project on “Purification of immune related proteins from pooled human amniotic fluid collected at term”
2. Clinical collaborator with NIRRH for project on “Association of Chlamydia trachomatis infection and host immunogenetic factor in manifestation of reproductive complications”
3. Clinical collaborator with NIRRH for project on “Embryo loss due to epigenetic abnormalities in the male germ line”
4. Clinical collaborator with NIRRH for project on ‘Association of bacterial vaginosis with preterm delivery”
5. Clinical collaborator in NIRRH research project “Association of host immunogenetic factors with Human papillomavirus (HPV) infection in development of cervical cancer in Indian women ”

Occupational Therapy

- Effect of balance exercises in vestibular rehabilitation for the patients with unilateral peripheral vertigo: A randomized control study
- To study the functional outcomes of visual constrained balance training exercises with conventional occupational therapy in chronic stroke patients: A randomized controlled trial.
- Effect of modified constraint induced movement therapy in acute stroke: A randomized controlled trial.
- To study the effects of occupational therapy program in the patients with idiopathic parkinsons disease using proprioceptive neuromuscular facilitation.
- Effect of local vibration as an adjunct to occupational therapy on functional performance in knee osteoarthritis.
- To study the effect of myofascial release as an adjunct to conventional occupational therapy for mechanical low back pain: A comparative study.
- Performance of average adult and average housewives on Moberg Pickup test: A normative study on population of Mumbai
- Proprioceptive neuromuscular facilitation and myofascial release with occupational therapy in patients with proximal humeral fracture: A comparative study.
- Normative data collection for modified rivet and eyelet deftness test (RED test- modified) – a measure for hand dexterity
- Study on Cranio-Vertebral Junction Orthosis.

Orthopedics

- Analysis of short term clinic radiological results of posterior cruciate ligament substitution Total Knee Arthroplasty in Knee with severe deformity and without deformity.
- Retrospective study of effects of Total Knee Replacement pm Diabetes Mellitus, Hypertension
- Incidence of symptomatic instability in degenerative lumbar spine.
- Invitro analysis of antibacterial activity of meropenem mixed with acrylic bone cement in Ecott Infections and Teicoplanin mixed with acrylic bone cement in staphylo coccal (MRSA) infections.
- A morphometric analysis of posterior tibial slope in Indian Knees – A CT bases study.
- Comparison of lumbosacral spine of normals with lumbosacral spondylolisthesis a morphometric analysis of sagittal alignment.
- Lateral Extracavitary approach to anterior reconstruction in upper and mid dorsal spine
- Study of outcomes of bone cement insufflations in Avascular Necrosis Hip
- A Pilot study for the prevalence of extra spinal extra pulmonary tuberculosis in Indian Population.

Pathology

- Acute On Chronic Liver Injury.
- Dementia Age Related cognitive loss in Mumbai.

Pediatric Surgery

- Role of USG guided hydrostatic reduction of intussusception in paediatric age group.
- Use of colour Doppler to assess testicular vascularity following laparoscopic hernia repair
- Use of colour Doppler to assess testicular vascularity following laparoscopic orchiopexy.
- Comparison of various topically applied stoma care products for prevention of peristomal skin excoriation.
- Efficacy of Propranolol and steroids in management of haemangioma.
- Study of effect of Betamethasone ointment in management of phimosis
- Study of various prognostic factors, outcome and complications after Tracheo-Oesophageal Fistula repair.

Pediatric

- Phase III, Randomized Multicenter, multinational, double blind study to evaluate the efficacy, safety and pharmacokinetics of once daily dosing of GENZ-112638 in patients with Gaucher disease Type 1 who have demonstrated clinical stability on twice daily dose of GEN-112638
- Newborn Screening for Congenital Hypothyroidism & Congenital Adrenal hyperplasia: A Multicentric Study
- National Diarrhoeal Disease Surveillance Network
- Comparison of Polymerase Chain Reaction (PCR) and conventional blood culture for detection of bacterial pathogens in blood
- Phase IV trial comparing DTP vaccine SII and other Brand
- Compare enalapril with digoxin
- Cardiac MRI
- Thrombocytopenia in Pediatrics
- Packed cells transfusion in PICU
- Compare two coma scales – Glasgow coma scale and AVUP
- MSc students thesis - Immunization
- Phase IV trial comparing sideeffects of SI vaccine Penta Vac with other brand.
- Evaluation of children with learning disabilities using psychomotor tests on Mindomatics software
- A population-based surveillance of invasive disease caused by *S. pneumoniae* in children <5 years of age in India
- Neurodevelopmental Disabilities Among Children in India: An INCLEN Study
- A Phase IV Open labeled, Randomized Multicentre Clinical Study to determine & compare reactogenicity of pentavac vaccine trial of SIIL with Tritanrix-HBHIb in Indian infants.
- Factors influencing prognosis of epilepsy in children
- Behavioral function of school going children with epilepsy
- TDM of anticonvulsants in management of children with epilepsy
- Newborn Screening for Congenital Hypothyroidism & Congenital Adrenal hyperplasia: A Multicentric Study
- 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)
- Adverse reactions and their economic burden in the Pediatric intensive care unit
- Economic burden of birth defects on the health care system at an urban tertiary health care system
- Determination of beta galactosidase and arylsulfatase A from cultured human fibroblasts: Comparison with enzyme activity in human leukocytes
- Quality of life in children undergoing non-surgical intervention for congenital heart diseases

Presentation.

- H1N1 infection in children: current scenario.
- Malaria: changing trends.
- Floppy infant with cardiomegaly: It could be Pompe disease
- Cool showers in summer
- 'notch' in an array of clinical presentation of Down syndrome.
- Gaucher disease – beyond the usual.
- Left ventricular failure due to a rare variant of congenital adrenal hyperplasia, at Mahapedicon 2010:
- Anterior sacral pyoceles with meningitis: A rare presentation of occult spinal dysraphism with congenital dermal sinus, at Mahapedicon 2010:
- An Unusual Recurrence of Anti-tubercular Drug Induced Hepatotoxicity in a child.
- Clinical Profile of Congenital Heart Disease in a Tertiary Care Hospital.
- Clinical Profile of Mechanically Ventilated Pediatric Patients
- Floppy Infant with Cardiomegaly – It Could be Pompe Disease.
- Anterior sacral pyocoele with meningitis: A rare presentation of occult spinal dysraphism with congenital dermal sinus.
- Idiopathic Pulmonary Hemosiderosis: Alveoli are an answer to Anemia
- Left ventricular failure due to a rare variant of congenital adrenal hyperplasia
- An unusual recurrence of anti-tubercular drug induced hepatotoxicity in a child.
- Floppy infant with cardiomegaly – It could be Pompe Disease.
- 'Notch' in an array of clinical presentation of Down syndrome.
- Gaucher disease – beyond the usual!
- Newborn Screening for Congenital Hypothyroidism: A prick in time saves the mind'. Oral Paper presented for the

- Preview on Monsoon illnesses: Golden Hour and Management Strategies
- Composition, Superiority and Benefits of Breast Milk
- Congenital Dermal Sinus: A window to Meningitis and Occult Spinal Dysraphism
- Congenital Adrenal Hyperplasia
- ERT in Pompe Disease: A Bridge of Hope
- Diagnosing epilepsy: Back to basics
- An Open Prospective Single Centre study to assess the confidence, usability, preference, and satisfaction on use of baby mask with valve from parents of children who are healthy or who have mild asthma
- Study of Incidence, Etiology, Risk factors & Outcome of Ventilator Associated Pneumonia in a Tertiary Care Level III Pediatric Intensive Care Unit of a Public Hospital
- Clinical Correlation & Evaluation of Spirometry in Children with Asthma
- Response of clinical symptoms and FEV₁ to inhaled steroids in patients with asthma who have been newly started on steroid therapy and in patients requiring increase in dose of steroids.
- Outcome of Mechanical Ventilation
- Study of congenital heart diseases admitted to Pediatric ICU
- A study of clinical profile and outcome of patients presenting with acute respiratory illness admitted to pediatric intensive care unit of tertiary care teaching hospital
- Study of Strategies for Weaning Pediatric Patients from Mechanical Ventilation
- Packed Red Cell Transfusion Practices at a Tertiary Care Level Pediatric Intensive Care Unit : A Prospective Observational Study
- Anterior Sacral Pyocele with Meningitis: A Rare Presentation of Occult Spinal Dysraphism with Congenital Dermal Sinus.
- Idiopathic Pulmonary Hemosiderosis- Alveoli are an Answer to Anemia.
- An Unusual Recurrence of Anti-tubercular Drug Induced Hepatotoxicity in a child.
- *Clinical Profile of Congenital Heart Disease in a Tertiary Care Hospital.*
- *Clinical Profile of Mechanically Ventilated Pediatric Patients*
- Floppy Infant with Cardiomegaly – It Could be Pompe Disease.
- HIV Infection in a Child Presenting as Acute Disseminated Encephalomyelitis
- Oseltamivir (*Drug Review*). Journal of Postgraduate Medicine
- Clinical features of hospitalized children with 2009 H1N1 influenza virus infection. Influenza H1N1 infection in a patient with psoriatic arthritis in treatment with Adalimumab: a case report.
- Acute Myelogenous Leukemia in a Child with HIV Infection
- *Leptospirosis in Children: A Review for Family Physicians*
- 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 IV ,open label, randomized, parallel group, multicentre clinical study to determine and compare reactogenicity of pentavac vaccine (DTPw-HB+HIB) of SIIL with Tritanrix-HB-HIB of GSK in indian infants.'

Pharmacology

Ongoing projects:

- Evaluation of serious adverse event reports: an ethical perspective.
- To study drug utilization pattern of drugs in rheumatoid arthritis (RA) and assess its cost effectiveness in RA patients referred to rheumatology OPD in KEM hospital
- A study of application forms submitted to the Ethics Committee.
- To study the effects of Indian medicinal plants on intestinal mucosal barrier in experimentally produced gastrointestinal dysfunction in animals.
- Evaluation of protective effects of Indian medicinal plants on cardiovascular system using *in vivo* & *in vitro* experimental models
- Evaluation of analgesic activity of dashamula using thermal, chemical & mechanical models in rats and mice.
- Evaluation of effects of Indian Medicinal Plants on coagulase negative Staphylococcus aureus in biofilm state: An *in vitro* study
- Evaluation of Antidepressant Activity of Indian Medicinal Plants in Experimental Models of Behavioral Despair.
- To evaluate antidepressant activity of statins alone and in combination with fluoxetine in acute and chronic behavioral models of depression.

- Isolation, expansion and transdifferentiation of mesenchymal stem cells from umbilical cord matrix and placenta into endothelial cells and comparison with Human Umbilical Vein Endothelial Cells (HUVECs).
- Effect of Extramune Tablet and Extramune Syrup on phagocytosis and chemotaxis, by polymorphonuclear cells (in vitro study)
- Oral Nutrition supplementation (ONS) in hospital patients
- A prospective, controlled, randomized, comparative, study to evaluate the glycemic index of test (food) products: Rice 7 Rice 8 Rice 9 and Rice 10 in healthy volunteers

Completed Projects

Academic

- Evaluation of Saraswatarishta and its combination with modern antidepressants in experimental models of behavioral despair.
- A drug utilization study in patients of asthma attending the Chest Medicine OPD of a tertiary care hospital.
- Drug utilization study on patients of skin infections in the Dermatology OPD of a tertiary care hospital.
- Drug utilization study on patients of psoriasis in the Dermatology department of a tertiary care hospital.
- Analysis of NSAIDS usage and prescription monitoring in orthopaedic OPD in KEM hospital. ICMR project STS programme.
- A review of reports of site monitoring visits by the institutional Ethics Committees - a tertiary care hospital experience.
- Participation of Human volunteers (non patients in clinical research studies conducted at a tertiary care hospital) – a review of ethical issues.
- Ethical issues in biomedical research: Analysis of research projects submitted to the ethics Committee of a tertiary care hospital in Mumbai.
- A study to assess and analyze the awareness of ethics amongst health care professionals involved in research on human participants.
- Comparative evaluation of efficacy of Ayurvedic hematinic formulation, *Mandurbhasma* with ferrous fumarate using an experimental model of iron deficiency.
- To assess the knowledge, attitude and practices amongst health care workers about pharmacovigilance in a tertiary care centre - a cross sectional survey.
- Development of anti-atherosclerotic formulation of *Plumbago zeylanicus* and *Phyllanthus emblica* through integrative pharmacological research.
- Knowledge, attitude and practices towards ayurvedic medicine use among resident doctors of modern medicine: a survey at a tertiary care hospital.
- Awareness about medical research among resident doctors: A cross- sectional survey.
- To evaluate perception of medical undergraduate students who are taught with problem solving teaching method in pharmacology. A prospective, comparative study.
- Evaluation of Indian Medicinal Plants for Anti-atherosclerotic Effects and Exploration of Their Possible Mechanisms of Action
- Exploratory Study to evaluate tolerability, safety and activity of Ashwagandha in healthy volunteers.
- Proof of safety & efficacy on selective plant based positive health promoters.
- A proof of concept prospective, double-blind, placebo controlled randomized, multicentric study to evaluate the activity and safety of PHP diabetes in patients freshly diagnosed with type 2 diabetes mellitus.
- A proof of concept prospective, double-blind, placebo controlled randomized, multicentric study to evaluate the activity and safety of PHP diabetes in patients freshly diagnosed with type 2 diabetes mellitus receiving oral anti-diabetic agents.
- A Proof of Concept, prospective, double-blind, placebo controlled, comparative, randomized, parallel group, multi-centric clinical study to evaluate short-term effect of PHP-Ageing on the physical and emotional well-being of elderly subjects.
- Development of herbominerals & plant based disease oriented immunomodulatory formulations
- A prospective, controlled, randomized, comparative, study to evaluate the glycemic index of test (food) products in healthy volunteers

Physiology

Completed Projects

- Comparative study of auditory reaction time & tactile sensibility in blind & sighted individuals
- To study the effect of Ramadan fasting on some physiological and biochemical parameters in healthy medical students of age group 18-28 years
- Study of correlation of the body composition and physical fitness index in the age group 17-21 years .

- Comparative study of cardiovascular endurance in stair case climbers and non climbers in medical students.
- Study & comparison of pulmonary function test in healthy, non-smoking subjects of different age groups.
- The study of effect of yoga on hypertensive individuals.
- To study altered autonomic nervous activity as a potential etiological factor of premenstrual tension & premenstrual dysphoric disorders
- Cardiovascular response to exercise in young, normal weight & overweight medical students in the age group of 18-25 years.

Ongoing Research:

- The effect of yoga on some physiological parameter in healthy individuals between 30-45 years.
- Comparative study of Cardio Vascular endocrine & physical fitness in trained aerobic dancers & working women of age group 30-45 years
- To study anaerobic capacity & body composition in first year medical students.
- Study of circadian rhythm changes in peak expiratory flow rate in healthy young adults.
- Co-relation of pulmonary function tests with body fat percentage in young normal weight & overweight students of first year MBBS course.
- To study aerobic capacity (VO_2 Max) in first year medical students
- Effect of alternate nostril breathing on cardiorespiratory and autonomic variables in young healthy adults.
- Gender differences in effects of cognitive stress on working capacity

Physiotherapy

Ongoing:

- Relationship between body Mass Index, Degree of airflow obstruction, Dyspnea exercise capacity [Bode Index] and quality of life in Chronic obstruction Pulmonary disease
- Relationship between body Mass Index, Degree of airflow obstruction, Dyspnea exercise capacity [Bode Index] and quality of life in Chronic obstruction Pulmonary disease
- Effect of Four different Upright upper body positions on Cardiopulmonary parameters in Chronic obstructive Pulmonary disease patients
- Comparison of maximal Oxygen Consumption values of healthy young adults estimated from multi stage fitness test and queens college step test
- Comparison of maximal Oxygen Consumption values estimated from six minute walk test and queens college step test
- Effect of Aerobic training on Cricketers Participating at College level
- Short term effect of burst transcutaneous electrical nerve stimulation (tens) on Post exercise blood pressure (BP) in Hypertensive
- Effect of Proprioceptive neuromuscular facilitation (PNF) techniques which are modified for patients who have undergone open heart surgery : It's impact on pain, activities of daily living (ADL), exercise capacity and mood
- Comparison between effect of Mulligan weight bearing and non weight bearing mobilization techniques in patients with knee osteoarthritis
- V in Quadriceps angle in normals
- Effects of two different Proprioceptive neuromuscular facilitation techniques on strength and endurance of core muscles in normal individuals
- Effect of Piriformis stretching in addition to conventional physical therapy in subjects with low back pain
- Comparison of effect of different Sensitizing Maneuvers on slump test between normal and overweight young adults
- The effect of Cognitive task on Balance in chronic stroke patients
- Implicit learning of Perceptual Motor Skill in elderly and post stroke subjects
- The immediate effect of electrical Stimulation of an Antagonist to Spastic muscle of lower limb on Spasticity and function in Hmiplegic Patients
- Comparison of Proprioception training versus strength training in improving the balance and proprioception in elderly
- The effect of Triceps Brachii Vibration on Proprioception during Motor performance of elbow joint-A Normative study
- Effect of application of abdominal binder on physiological cost index in patients of chronic obstructive pulmonary disease
- Incentive spirometry vs ACBT- its effect on flow rates in post abdominal surgery patients
- Effect of purselip breathing on walking distance, oxygen saturation and vital paramaters in COPD
- Evaluation of effects of nebulisation and breathing control in asthmatic patients
- Correlation of respiratory response with stairclimbing to vertical height climbed in COPD
- Influence of pathology, pain, Balance and self Efficacy on function in women with OA of Knee

- Influence of generalized joint hypermobility on knee joint proprioception in asymptomatic normal females
- Effect of static and dynamic stretching on maximal muscle power
- Yoga for postmenopausal women with hyperkyphosis
- Comparison of two stretching techniques for posterior shoulder tightness
- mobilization on upper trapezius muscle length and median nerve extensibility Effect Of Upper Trapezius muscle stretching and median nerve
- Effect of Balance training using Foam surface on balance in older adults.
- Effect of balance training with visual occlusion Vs visual Engagement in elderly
- Assessment of reliability and validity of SCARF ratio used in muscle tone evaluation of preterm neonates
- Impact of Visual Occlusion On Balance Rehabilitation in patients with stroke
- Effect of mental practice on the performance of TUG test in elderly
- Effect of Mulligan's bent leg raise technique on hamstrings spasticity in children with cerebral palsy

Preventive and Social Medicine

- A Study of epidemiology of hypertension in an urban slum community
- A Study of maternal and socio-economic factors influencing neonatal birth weight in pregnant women attending an urban health centre
- A study of perceptions determining sexual behavior & attitude towards contraceptive practice, reproductive health, premarital sex among adolescent boys in an urban slum community
- Study of implementation of Leprosy control program at primary and secondary level healthcare facility in rural area.
- Study of family planning practices and unmet needs among eligible couples in urban slum
- An epidemiological study of adult female burn patients admitted to a tertiary care hospital and problems faced by patients, relatives and service providers in their rehabilitation
- An epidemiological study of health profile of under five children in an urban slum.
- A study of prevalent child rearing practices in 0 to 1 year age group and its effect on health of 0 to 1 year age group of children in an urban slum area
- A need based assessment of HIV patients in an urban health centre
- Interventional study of factors influencing health seeking behavior of an urban slum community'
- An Epidemiological study of morbidity profile of municipal primary school children.
- An Epidemiological assessment of quality of life in Diabetes Mellitus patients attending urban health center based on predetermined WHO criteria
- A cross-sectional epidemiological study of substance abuse among males aged 15 years and above in an urban slum community
- An Epidemiological study of physically challenged children of special school in an urban city
- A cross-sectional study of cost effective analysis of the health care services provided per patient per day in a municipal general hospital and a private hospital.
- Epidemiological Study Of Acute Respiratory Infections In Children Less Than 5 Years Of Age In Urban Field Practise Area of a Tertiary Care Medical Institution
- Study of association of various maternal risk factors in congenital anomalies.
- A study of ecological factors & health seeking behavior of patients of animal bite attending ARV OPD in a tertiary care hospital
- A cross sectional study of morbidity and nutritional assessment of Anganwadi children in tribal area of Thane district
- A Comparative Study Of Geriatric Problems Among Rural And Urban Communities
- A cross-sectional study on assessment of client's perception in terms of satisfaction and service utilization in an Urban Health Centre.
- A Longitudinal study to determine the epidemiological factors affecting nutritional status of pregnant women in antenatal & postnatal period reporting at Urban Health Centre
- An interventional study to determine the effectiveness of intensified pre-treatment counseling in enhancing patient compliance in RNTCP in an urban slum.
- A Study Of Health & Nutrition Status of Children under 3yrs of age in context of utilization & effectiveness of ICDS services in urban area
- A comparative study at utilization of Janani Suraksha Yojana and Matruada Anadan Yojana in urban & rural settings
- An Epidemiological Study of Job Satisfaction amongst Class IV Employees in a Tertiary Care Hospital in Mumbai.
- To study the epidemiological profile of taxi drivers in the background of occupational environment, stress and personality characteristics

- A study to evaluate prescribing indicators of prescription practice adopted by intern in urban health center
- A study to assess biomedical waste management system in tertiary hospitals in a private and public hospital in Mumbai.
- An epidemiological study of street children utilizing services of shelter home in an urban area with special reference to their post de-addiction life.
- Baseline socio-demographic survey in Sakwar
- Study of implementation of leprosy control program in primary and secondary health care level in rural area
- Prevalence and KAP study of substance abuse in Patilpada in RHTC sakwar.
- Assessment of Health status of tribal working in a brick-klin at Sakwar.
- Delay in diagnosis of Pulmonary TB in a tribal area.
- Cross-sectional study of health and nutritional assessment of Anganwadi children in tribal area of Thane Dist.
- Effectiveness of training on IYCN on awareness and practices about infant nutrition of ASHA workers at Durvesh PHC, Palghar.
- Morbidity profile of students training at ITI, Sakwar.
- In-depth qualitative study of home remedies and alternate medicines used for common childhood illnesses in Sakwar.
- Assessment of awareness and attitude towards vasectomy among tribal males in Sakwar.
- Health assessment of inmates of old age home, Sakwar.
- ABC & VED analysis of drug inventory system of RHTC.
- Study of risk factors, awareness and aptitudes regarding diabetes amongst type II diabetes patients at RHTC Sakwar.
- To assess knowledge, attitude and practices of ASHA workers regarding child health
- To assess knowledge, attitude and practices above vasectomy amongst men in tribal district of Thane.
- Evaluation of functioning of Rogi Kalyan Samiti at PHC Durvesh in 2009 – 2010.

Presentations:

- Study of awareness and practices of health insurance among resident doctors at a tertiary care institute.
- A study of assessment of quality and utilization of reproductive health services by women in a tribal area of Thane district.
- A study of Breastfeeding practices among urban mothers attending Immunization OPD in a tertiary care hospital.
- Assessment of alcohol and tobacco abuse among tribals in a subcentre area in Thane district
- Clinical and laboratory assessment of leucorrhoea in women receiving treatment by syndromic management kit at Malvani
- A cross sectional study of contraceptive practices adopted by women in an urban slum area of Mumbai
- Determinants of self medication in an urban slum community
- Epidemiological study of determinants of patients included in category Ii status of AKT.
- Overview of services provided at DIC for PLHA - A record based study
- HIV tuberculosis Interface : A comparison of collateral prevalence of HIV and tuberculosis in an urban health centre implementing HIV/AIDS & tuberculosis control program.
- Correlates of antenatal Body Mass Index as a determinant of neonatal birth weight
- Correlates of antenatal Body Mass Index as a determinant of neonatal birth weight
- Computer related health problems among software professionals – A cross sectional study

Psychiatry

- A study of HIV related Dementia in 100 seropositive patients in an HIV clinic of Tertiary Care centre
- Study of neurocognitive changes in HIV children
- A multi-centre study of Mental health morbidity and psychosocial needs of persons living with HIV/AIDS
- Dhat Syndrome : Cultural Misconception & Depression
- Study of HIV dementia complex
- A multi center study of Mental health morbidity and psychological needs of persons living with HIV/AIDS (NACO)
- A Comparative Study of Factors Associated with treatment Resistant Depression
- Psychiatric aspects of Refractory Temporal lobe epilepsy before & after epilepsy surgery
- Neuropsychiatry study of Dementia patient in Genral Hospital Unit Psychiatry

Surgical Gastroenterology

Ongoing Projects

- Corelation of medial margins and recurrence in pancreaticoduodenectomy
- Study of structure and function of colon after colectomy
- Study of Portal Biliopathy
- Laparoscopic Structured training versus Traditional Training

Transfusion Medicine

- Comparison of conventional crossmatch with automated Crossmatch using a fully automated grouping and crossmatching Machine.
- Alloimmunization in Rh negative antenatal cases

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.

On going :

- Open label, randomized multicentric clinical trial of Mycobacterium W in superficial TCC to compare the efficacy & toxicity of Mycobacterium W to intravesical BCG in patients with newly diagnosed superficial TCC with high probability of recurrence.

Publications

Publications

Anatomy

International

- Priti L. Mishall, Lakshmi Rajgopal – Variant Right Hepatic Artery forming Moynihan's Hump- Clinical Relevance- International Journal of Anatomical Variations (2010)3:144-145
- Praveen B. Iyer. Bilateral Absence of Fibularis Tertius: Clinical Implications and Phylogeny International Journal of Anatomical Variations (2010)3:170-172

Proceedings

International

- Bhuiyan P.S. GTP: Teaching Microskills Peer/ Feedback at the 6th GSMC- FAIMER Regional Institute Programme, June 2010
- Bhosale Y.J. Conflict Management at the 6th GSMC- FAIMER Regional Institute Programme, June 2010
- Iyer P. Starting the journey: interviews, group dynamics and processes, distance learning, retrospective pre, introduction to Listserv, introduction to WebCT, Daily session Evaluation at the 6th GSMC- FAIMER Regional Institute Programme, June 2010
- Bhuiyan P.S. The Anatomy of Pain Pathways. Pain Management Symposium, IASP, Cairo, Egypt in December 2010

National

- Bhuiyan P.S. Adult Learning Principles, Microteaching at the 2nd GSMC- KEMH- MCI Regional centre- Basic Course in Medical Education Technology in March 2010
- Bhosale Y.J. Ice breaking, Long answer questions and brief answer questions, Microteaching, Introduction to Item analysis at the 2nd GSMC- KEMH- MCI Regional centre- Basic Course in Medical Education Technology in March 2010
- Shyamkishore K. Microteaching, Introduction to Item analysis at the 2nd GSMC- KEMH- MCI Regional centre- Basic Course in Medical Education Technology in March 2010
- Iyer P. Group dynamics, Microteaching, Feedback at the 2nd GSMC- KEMH- MCI Regional centre- Basic Course in Medical Education Technology in March 2010
- Patil R.A. Group Dynamics, Teaching Learning Methods: Lecture as a Teaching Tool at the 2nd GSMC- KEMH- MCI Regional centre- Basic Course in Medical Education Technology in March 2010
- Bhuiyan P.S. Adult Learning Principles, Microteaching at the 3rd GSMC- KEMH- MCI Nodal centre- Basic Course in Medical Education Technology in September 2010
- Shyamkishore K. MCQ and Item Analysis at the 3rd GSMC- KEMH- MCI Nodal centre- Basic Course in Medical Education Technology in September 2010
- Bhosale Y.J. Ice Breaking, Microteaching at the 3rd GSMC- KEMH- MCI Nodal centre- Basic Course in Medical Education Technology in September 2010
- Iyer P. Group Dynamics, Feedback at the 3rd GSMC- KEMH- MCI Nodal centre- Basic Course in Medical Education Technology in September 2010
- Patil R.A. Group Dynamics at the 3rd GSMC- KEMH- MCI Nodal centre- Basic Course in Medical Education Technology in September 2010
- Natarajan M. Is Mind an Anatomical Term? Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Rajgopal L. Surgical Anatomy of Ulnar Nerve in Cubital Tunnel. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Khushale Kishor. Dissection of Fibrous Skeleton of Heart. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Khushale Kishor. Dissection of the Fascia of the Distal Phalanx. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Iyer P. Palmaris Profundus: A Probable Cause of Carpal Tunnel Syndrome. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Patil R.A. Perceptions of Postgraduate Students and Teachers in Anatomy on the Curriculum in Histology Techniques. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune

on December 2010

- Thakre Bharat. A Study of Shape, Height and Location of the Lingula on Dry Human Mandibles. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Kulkarni Saurabh . A Study of Branching Pattern of Femoral Artery on Femoral Triangle in Cadavers. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Kulkarni Saurabh. A Morphometric Study of Foramen Ovale and Foramen Spinosum in Dried Human Skulls. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Nikade Vrushali. Session Goals in Gross Anatomy-Perception of MBBS Students. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Lone Mangesh. Location and Incidence of the Zygomaticofacial and Zygomatico Orbital Foramen in Dry Human Skulls-An Anatomical Study. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Lone Mangesh. A Rare Variation in the Deep Venous System of Lower Limb. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Nimje Bharati. Morphometric Study of Menisci in Knee Joint. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Telang Anjali. A Morphological Study of the Palmar Arterial Arches in Cadavers. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010
- Malwatkar Rachita. A 3D Model of the Knee Joint :An Easy Way to Demonstrate Anatomy & its Movements. Proceedings of the 58th National Conference of Anatomical Society of India held at Dr. D.Y.Patil Medical College, Pune on December 2010

Anesthesia

National

- Dr. Manjula S. Sarkar , Thermostability during anaesthesia induction in paediatric cardiac surgery patients - comparison between sevoflurane and narcotic induction Bombay Hospital Journal, Volume 52, No. 1, January, 2010.
- Dr. Manjula S. Sarkar,, Effect of clonidine as an adjunct to induction agent in CABG patients Bombay Hospital Journal, Volume 52, No. 1, January, 2010.
- Dr. Manjula S. Sarkar , Analysis of severe pulmonary hypertension, , Bombay Hospital Journal. Volume 52 no. 1, January, 2010.
- Dr. Sanjeeta Umbarkar. To Study Withdrawal response to Inj. Rocuronium after giving IV Ondansetron vs. IV Zylorine – Bombay Hospital Journal, October 10
- Dr. Sanjeeta Umbarkar Anaesthesia Management for patient with Fanconi's anaesthesia – a rare case report – Bombay Hospital Journal, October 10

Cardiology

- Kerkar PG, Phadke Milind S. Catheter based balloon mitral valvuloplasty. In “Cardiovascular Interventions in Clinical Practice” Jurgen Haase, Hans Joachim-Schafers, Horst Sievert, Ron Walksman Eds. Wiley-Blackwell May' 2010
- Kerkar,PG, Lanjewar CP, Mishra NV, Nyayadhish PY, Mammen I ‘Transcatheter closure of ruptured sinus of Valsalva aneurysm during the Amplatzer duct occluder; Immediate results and mid-term follow-up Eur Heart J (2010) 31(23) : 2881-2887, doi : 10.1093(eurheartj-ehq323.
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- Oral paper & poster presented at 56th Annual National Conference of Association of Physiologists and Pharmacologists of India (APPICON-2010) at Jawaharlal Nehru Medical College, DMIMS, Sawangi, Wardha, from 22nd – 24th December 2010. These were published in Indian Journal of Physiology & Pharmacology, volume 54, supplement 2, Dec 2010.
- Providing Continuing Oversight for Ethical Health Research. Dr. Yashashree Shetty at 10th FERCAP International Conference Networking and Alliance Building for Ethical Health Research, Shanghai, China (22-25 November 2010). Abstract Booklet Pg- 100-5.

Newspaper

- A series of Marathi articles in Navakal by Vd. Sudatta shirolkar and Dr NN Rege.

Physiology

- Dr. Anita Agrawal - "Effect of anion channel blockers on L-arginine action in spermatozoa from asthenospermic men" in International Journal 'Andrologia' 42 : 76-82, 2010.

Physiotherapy

- Swati Surkar, Hutoxi Writer : 'Cognitive, gross motor dysfunction & academic Performance in childhood epilepsy : A prospective study' Indian Journal of Physiotherapy & Occupational Therapy, Vol 4. Issue 4. Dec 2010

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Radiology

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Surgical Gastroenterology

International

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- Dr. Madhuri S. Kate¹, Ujjwala J. Kulkarni¹, Dr. Avinash Supe², Dr. Y.A.Deshmukh Introducing integrated teaching in undergraduate medical curriculum. International Journal of Pharma Sciences and research (IJPSR) Vol.1(1), 2010, 18-22

National

- Jay Mehta, Ramkrishna Prabhu, Priya Eshpuniyani, Chetan Kantharia, Avinash Supe Evaluating the efficacy of tumor markers CA 19-9 and CEA to predict operability and survival in pancreatic malignancies – Tropical Gastroenterology – July 2010
- Jay Mehta, Ramkrishna Prabhu, Priya Eshpuniyani, Chetan Kantharia, Avinash Supe Ergonomics in laparoscopic surgery – J Min Access Surgery April 2010 ;6(2)
- Decision making in Clinical practice – Part 1 and 2
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In the Limelight

In the Limelight

1. Anesthesia

Liver Transplant : The anaesthesia team was involved in the 1st Live Donor Liver Transplant in KEM and was felicitated by Hon. Shri Uddhav Thackeray & The Municipal Commissioner.

2. Anatomy

The body donation programme of the department was appreciated and highlighted in the Chitralkha magazine, February 2010 issue

3 Biochemistry

ACBICON – 2010, Organizing Secretary , Dr. S.P. Dandekar was installed as the President of Association of Clinical Biochemists of India.

4. Cardiology

Intravascular Ultrasound (IVUS) machine



5. Chest Medicine

Freak weather sees rise in breathing diseases

By: Priyanka Vora

Date: 2010-11-23

As November rains lash the city, sending the humidity levels off beam, hospitals are lined up with patients complaining of respiratory ailments and allergies

The winter is about to set in but monsoon refuses to leave the city. The chills with untimely spells of rains have left many to battle with an array of allergies.

Doctors in the city have seen a twofold rise in patients suffering from respiratory disorders, some so severe that they are landing patients in the intensive care unit.



This man was among many who were caught unprepared by the sudden showers yesterday

Dr Prashant Chhajed, director of lung care and sleep centre at Fortis Hiranandani Hospital in Vashi, said, “In the last one week, the number of people coming with allergic rhinitis and asthma has doubled as compared to November last year.” Rhinitis is an irritation in the nose caused by inflammation of the nasal mucous membrane.

While Dr Pramod Niphadkar of Asthma and Bronchitis Association of India said, “Usually in November the number of such allergies goes down. But this year there is a 30 per cent rise in the cases. The unusual weather this month is triggering frequent asthma attacks.”

The truant weather is more unforgiving to those who already have one or the other disorder. “This season is a mixture of all three weathers. It is cold in the morning, warm in the afternoon, and by evening it starts raining.

Such weather fluctuations do not go well with patients with an underlying disorder like asthma or COPD (chronic obstructive pulmonary disease).

They are suffering from frequent attacks and the severity is very high due to the constant change in humidity levels in the city,” said Dr Ashok Mahashur, respiratory disease specialist at Hinduja Hospital, adding that children are the worst sufferers.

Dr Amita Athavale, who heads KEM Hospital’s chest medicine department, explained why the weather is throwing your immunity out of kilter.

“The rains and increased humidity leads to the rampant growth of fungal pores which is the reason for the increase in allergies,” she said.

However, it’s not only people with underlying disorders but also people who have no history of allergies who are falling prey to the fluctuating weather.

Take the case of a young student who came to Mumbai during Diwali and got a cough which couldn’t be treated by regular medicines. She was diagnosed with severe pneumonia.

The rains have also triggered the deadly sting. Malaria cases are still reported in November, which is usually not the case. “People who have just been treated of malaria are landing up with upper and lower respiratory infections,” added Mahashur.



gits4u.com

Air pollution causes asthma

A recent BMC survey in May 2010 showed that deaths due to respiratory tract infections have increased by 20.17 per cent, pushing even heart disease and cancer aside. The new killer diseases are bronchial asthma and chronic obstructive pulmonary disorders (COPD). Not surprising, given the dust, pollution and erratic lifestyles. Also, WHO ranks Mumbai among the top 10 polluted cities in the world.

“General Asthma levels in the city are anywhere between three to five per cent whereas in polluted areas, that increases to 10 per cent,” says Dr Amita Athavale, head of (EPRC) at KEM Hospital. She says while SPM doesn’t directly cause asthma it causes increased incidence of asthmatic attacks among those already suffering from the disease and triggers chronic obstructive pulmonary disease among those prone to respiratory ailments. There are cases of pulmonary fibrosis

where lungs lose elasticity permanently, reducing the capacity to take in air. "In pulmonary fibrosis, pollution works as one of the significant triggers. In the Seventies, we saw pulmonary fibrosis cases once every year, now we are seeing one fresh case every week," says Dr Niphadkar

Respiratory trouble on rise

Pratibha Masand | re

Mumbai: While TOT had reported that around 3,200 people had died in 2006 alone due to respiratory tract infections in Mumbai, city doctors feel most of these people suffered because of the increasing construction activities.

"Suspended Particulate Matter (SPM) in the atmosphere—which can also be seen in a sun beam, if increased beyond limit, can cause trouble in the respiratory tracts. Construction, especially breaking down of an old building, which is now normal, is a major factor in increasing the number of SPM in the atmosphere," said Dr Nilesh Rane, professor of physiology at D Y Patil Medical College.

Different sizes of particles may affect different parts of the respiratory system. "Particles that are 5-15 microns in size affect the upper parts of the respiratory tract like nose, sinuses, throat, bronchi (small air ways). Since these particles are big, they are stopped by the hair lining the inside of the nasal tract and keep moving upward. However, particles 1-5 microns in size manage to reach the deeper parts of the lungs," said Dr Prasad Niphadkar, chest physician at Jaslok Hospital.

Doctors say while the body has its own mechanism to combat even the smallest particles, in areas where construction is a continuous process, these particles are abundant and a beyond-the-limit quantity in the body may cause serious health hazards. "The white blood cells in the alveoli can eat up these particles. But there is a limit to it. When a person stays near a construction site, the particles get accumulated in the lungs and stay there. Prolonged collection of these particles may cause chronic cold, allergies, pharyngitis, bronchitis, an increase in asthma or trigger pneumonia along with dreaded chronic obstructive pulmonary disorders (COPDs)," said Rane.

Particulate matter does not remain constant in an area. Regional director of National Environment Engineering Research Institute Pankaj Kumar says any area has different amounts of particles at different times. "It depends on the season, vehicular and construction activities. Generally, 100 micrograms in 1 cubic metre of air is the normal limit. Anything above this is bad for people in that area," he said adding Borivli, Kalina, Santa Cruz and Colaba were the better areas.



Breathless in the city

A survey conducted by the Brihanmumbai Municipal Corporation's KEM Hospital in six city schools finds that nearly nine per cent of 1,163 students had respiratory complaints, some even had undetected asthma



WHAT IS ASTHMA

Asthma is a chronic respiratory condition that causes the airways to become inflamed and narrow, making it difficult to breathe. It is often triggered by allergens, pollution, and stress. Symptoms include coughing, wheezing, and shortness of breath.

Parents were not aware that their child is in a primary stage of asthma

—Dr. Anand Kulkarni, KEM Hospital

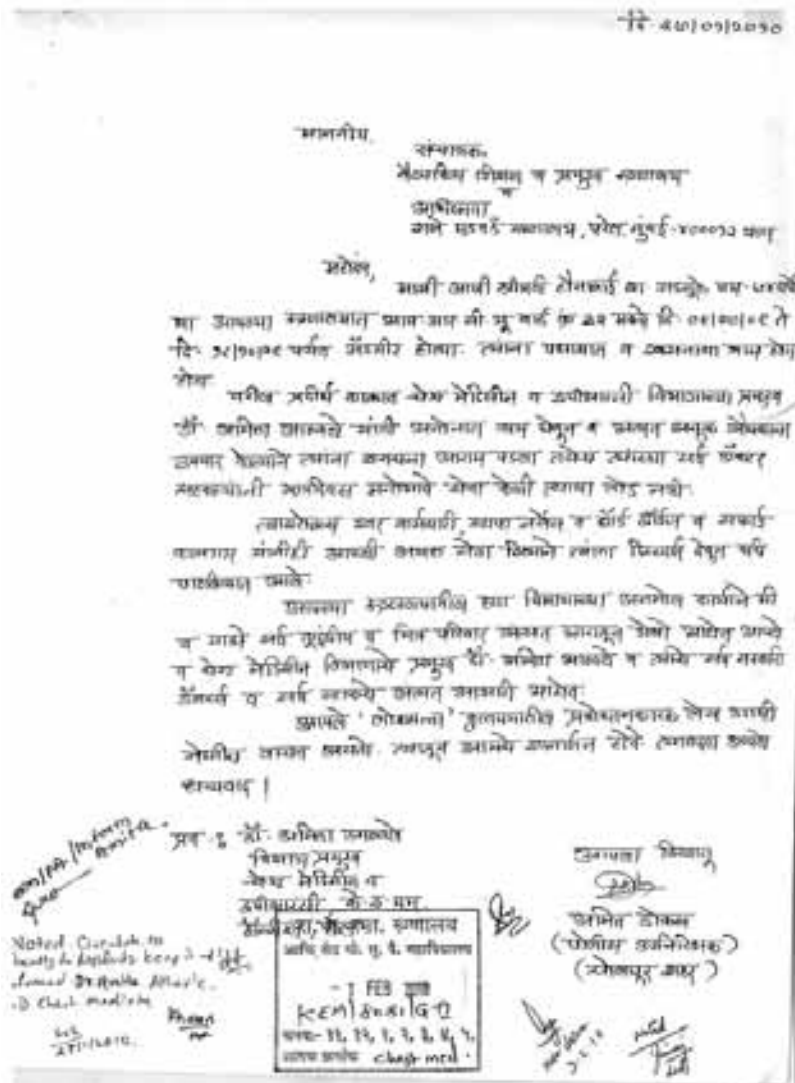
The survey found that nearly 9% of the 1,163 students had respiratory complaints, with some having undetected asthma. The study was conducted by the Brihanmumbai Municipal Corporation's KEM Hospital in six city schools.

Nearly 2.4% of class VIII, IX students have asthma

A study conducted by the KEM Hospital in six city schools found that nearly 9% of the 1,163 students had respiratory complaints, with some having undetected asthma. The study was conducted by the Brihanmumbai Municipal Corporation's KEM Hospital in six city schools.



Letters of appreciation:



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2nd Floor, Fort, Mumbai-400 001.
Tel.: 268-2668 2, 273, 1732 +
Fax: 81-32-268 4382 / 268 6343

④

Let us thank you for your efforts + thank
you for your understanding & help in making
our class patients.

I appreciate to your earnest desire to
help the patients to the best of your
ability. So I have a great regard for
you.

Thursday

your's sincerely S. J. J. J.
SHYAM LAL JAIN
PATIENT

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वर्ग मध्ये निराकार योगी. हे माझचे माझ -
 व त्यांचे साक्षात् ओळख. कदाचनही तुम्ही
 मिळी. विनम्र निवेदन.

આત્મા હી મુર્તિ વરી દાસી
ભલુરા જેઠા મહારમે મેઝા વાપરે સર્વિ મહારોડી

આણી નહીં કે માનવે ખેડે

ત (પોતે) સ્વચ્છતા ડૉક્ટરો સાથે પામી શકે
અથવા સર્વ સમાજના સેક્ટર-વાચના સંદર્ભમાં
ડૉક્ટરના સિદ્ધિ-સેવા મિશ્ન.

2015-01-01

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अधिकांश राजाजी महाराज
सर्वप्रथम जिला
(जिले नुसार विभाजन)

6. CVTS :

Department received accolade in the article in Marathi newspaper Loksatta dated 26.10.2010

7. Endocrinology

Dr. Nalini S. Shah: ISPAE -PRESIDENT was elected as President of Indian Society of Pediatric and Adolescent Endocrinology for year 2009 to 2011.

8. ENT

Dr. J. P Dabholkar, Dr. Ninad S. Gaikwad, Dr Nilam Sathe

Newspaper clipping regarding AOICON Jan, 2010 - Loksatta, Lokmat, Saamna, Times of India.

Newspaper clipping regarding Hongkong international conference, Dec2010 - Loksatta, Lokmat

Radio

- Interview on radio on Causes of Hearing Loss – **BIG 92.3FM**
- Interview on radio on **AIR** on Ear complaints in a small child.
- Interview on Allergic Rhinitis in Feb 2010– **BIG 92.3FM.**

TV- Dr Nilam Sathe was interviewed on TV- S 9 regarding AOICON 2010 in Jan 2010.

Magazine – Dr Nilam Sathe AAO-HNS American News Bulletin recognized for International Scholar Award September 2010

9. GI Surgery

Paper on “Laparoscopic Adrenalectomy for Large tumors (> 5 cm)” presented at the World Congress of Endoscopic Surgery organized by Society of American Gastroenterological Endoscopic Surgeons (SAGES) in April 2010.

10. Medicine

Dr.S.B.Salagre, Associate Professor - Publication in Maharashtra Times

11. Neonatology

Newspaper/ Magazine report - Senior Staff Nurse Rekha Samant **was** awarded the First International “Neonatal Nursing Excellence Award 2010” by 7th International Conference of Neonatal Nursing & Save The Children USA. Report attached



12. Neurology

Organized Long distance Epilepsy Education and Awareness program (LEAP 2010) on 31st January 2010 in collaboration with USA Trust EPI – Epilepsy Partnership India. Five international speakers were invited. 1st day it was in KEM Hospital and second day outside. At KEM hospital we had patient forum where more than 100 patients attended it.

13. Occupational Therapy

Photo 1: Delegate's Council Meeting of International Federation of Societies for Hand Therapy (IFSHT) at Orlando, Florida, USA on 23rd June, 2010: Mr. Hemant P. Nandgoankar; Assistant Professor of Occupational Therapy represented India:



14. Pediatric Surgery

Rare case of epignathic heteropagus twin- published in Mumbai Mirror

15. PSM

Dr. R.R. Shinde :

Felicitated by the Lions Club Mumbai with the Award of “The Best Teacher” in Medical Faculty.
Member of the “Draft Committee for Developing State Youth Policy”

Looking Ahead

Looking Ahead

Anaesthesia

Patient care

- A separate OPD for pain management to be initiated
- Operation theatre complex of two floors in the New Building
- Replacements of old equipments by new equipments
- To set up 10 bedded AICU
- To set up 10 bedded HDU
- State of art superspeciality operation theatres.
- Peri-operative management of liver transplant surgeries.

Education

- Difficult airway training centre to be established
- Courses -DM in Cardiac Anaesthesia, Neuro Anaesthesia, Paediatric Anaesthesia to be started

Anatomy

Education

- Preparation of e-learning modules for microanatomy and gross anatomy for 1st MBBS students

Research

- To develop Electron Microscopy Facility
- To develop Plastination Facility
- To set up Genetics laboratory

Campus and Infrastructure

- Air-conditioning of Dissection Hall, Microanatomy Laboratory, Anatomy Lecture Theatre with Laminar Airflow Systems to be set up.
- Mortuary Renovation – The departments' mortuary is going to be renovated with new hydraulic systems for easy transfer of bodies.
- CCTV monitoring of lecture theatres, laboratories and departmental corridor (for security)

Biochemistry

Patient care

- It is proposed to furnish the Biochemistry Laboratory with state of the art equipments and to modernize CCBL & EMS laboratories.

Education

- To introduce innovations in teaching technology which will facilitate better students' learning

Research

- To collaborate with national and international agencies and to diversify and upgrade the research activities

Cardiology

Patient care

- A portable echo-colour doppler machine is expected once the requisite procedure is completed.

Education

- Fellowship programs for post DM /DNB candidates in paediatric cardiology, adult interventional cardiology and electrophysiology are proposed.

Research

- We now plan to start a Chest pain registry which would include all patients presenting to the EMS with acute chest pain. This will help us study and understand the aetiology, demographic profile, and spectrum of manifestations of coronary artery disease, as well as the reasons for late presentation of acute MI patients.

Chest Medicine

Patient care

- The department will be acquiring multipara-monitors for IRCU. This will further help us to handle the monsoon related illness with further ease and efficiency.
- The development of a fully equipped interventional bronchology facility is in the pipeline as is Video-EEG for sleep studies.
- We have also put in a request to procure pleuroscope that will help us in diagnosis and management of pleural diseases.
- Also the department will be soon getting a new video bronchoscope that will be used for diagnostic and therapeutic purposes.
- The incidence of atopic and allergic illness is on the rise, the need has been felt to develop a full-fledged laboratory where tests including skin prick tests, and desensitization may be carried out to alleviate patients with refractory atopic conditions.

Cardio-vascular and Thoracic Surgery (CVTS)

Patient care

- Expansion of the facilities has been proposed in the 2nd phase of the institution development plan. It is expected to be completed by 2012.

Education

- A separate area of 1500 sq. ft. is proposed for combined library and seminar hall for Cardiology, CVTS and Chest Medicine Department in the proposed multistoried building.

Clinical Pharmacology

Patient care and Research

- Evaluation of polymorphism of CYP2C19 to optimize clopidogrel therapy.
- Evaluation of polymorphism of CYP2C9 and CYP2C19 and ABCB1 in patients with multi-drug resistant epilepsy.
- Phase II study of a rabies monoclonal antibody.
- Efficacy study of probiotics in *C. Difficile* in patients with Diarrhea

Education

- 1 year DBT funded fellowship in clinical sciences
- Workshop in Clinical Pharmacology for Postgraduates all over India.
- Collaboration with NIH for a workshop on observational studies.

Dermatology

Patient care

- The department of Dermatology has introduced new patient care services in the form of laser therapy for birth marks like nevus of Ota, portwine stain
- We are planning for Botox and Fillers Treatment for crows feet, wrinkles, nasolabial folds etc.
- To establish setup for follicular hair transplantation

Endocrinology

New areas to be developed in next 15 years:

Patient care

- To establish Foot Care Clinic
- Diabetes services to be enhanced to curtail number of patients visits.
- To initiate Diabetes prevention programme
- To establish clinic for "Disorders of sexual development"
- To set up Neuro Endocrinology clinic
- Thyroid Sonography
- To establish patient support group
- To set up Obesity Clinic

Education

- To start a Diabetes Educators Programme for nursing staff/ medical social worker
- Fellowship in Pediatric and Adolescent Endocrinology
- Fellowship in Reproductive Endocrinology

Research

- Molecular endocrinology laboratory
- Regional referral centre for genetic diagnosis in endocrine disorders.
- Genotyping in patients with congenital adrenal hyperplasia
- Newborn screening programmes in congenital hypothyroidism and congenital adrenal hyperplasia
- Research in pharmacogenetics in various endocrine disorders like Diabetes Mellitus Osteoporosis etc.
- Increasing number of national and international publications.

Gastroenterology

Patient care

- Establishment of a Liver-ICU in coordination with department of Surgical Gastroenterology for better management of patients with acute liver failure and post liver resection surgeries. Liver transplant is the only definitive treatment modality for patients with end stage liver disease. The cost of liver transplant surgery is prohibitive in private setup so even middle class patients cannot afford it. We have to develop our infrastructure so that we can start providing this service at a much lower cost. This will require a multidisciplinary approach involving GI surgeons, anesthetist, intensive care physicians and laboratory.
- In collaboration with department of Surgical Gastroenterology, a combined OPD for patients requiring integrated care has been planned.

Medicine

Education

- Holding scientific meets regularly

Research

- Scientific research with the departments of Physiology, Pharmacology and Biochemistry is being planned.

MICU

Education

- Interactive session with ISCCM Mumbai.
- Journal reviews/ topics reviews of critical care topics by students doing critical care fellowship

Neonatology

Patient care

- Establishment of emergency Neonatal Care services
- Establishment of Fetal Medicine Clinic.
- Initiation of Community based Kangaroo Mother Care.

Nephrology

Patient care

- To expand deceased donor programme.
- To start CAPD programme
- To establish facility for therapeutic drug monitoring
- To start C.K.D. Clinic.
- To create two units of Nephrology
- Computerization of Nephrology records

Neurology

Patient care

- To establish Stroke Unit
- To establish Dementia Clinic
- To develop 2nd Phase epilepsy surgery – invasive monitoring, intra operative electro-corticography

Nursing

Education

- To provide facilities in the School of Nursing such as well equipped laboratories for Fundamental Nursing, Nutrition, Community Health Nursing
- To initiate Critical Care Nursing Course
- To put up proposal for BSc. Nursing College
- To develop upgraded library
- To procure internet facilities

Obstetrics & Gynaecology

Patient Care

1. Complete renovation of the department, including all Operation Theatres, Wards, Lecture rooms and Offices
2. Additional fetal monitors for better labour ward management
3. Postoperative monitoring facilities for all post-operative patients with cardioscope, defibrillator and pulse oximeter
4. Recovery room with monitoring facilities for Obstetrics OT, Gynec OT & FP OT with resuscitation equipment & life support equipment
5. Endoscopic Surgery OT is planned to reduce the of laparotomies and in effect, reduce hospital stay and costs to patients and BMC
6. Sub specialty OPDs and Services are planned as follows:
 - a. High Risk Pregnancy OPD
 - b. Gynaecologic Endocrinology OPD
 - c. Gynaecologic Oncology OPD
 - d. Infertility including ART OPD
 - e. Fetal Medicine and Genetic Counseling

Campus Infrastructure

Hospital is in the process of renovating the department of obstetrics and gynaecology, with modification of the layout for better patient care and student education.

Occupational Therapy

Patient care

- 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 50 years.
- We also wish to set up a unique rehabilitation care center for the physically and mentally handicapped with facility of disability evaluation.
- We wish to incorporate an orthotic and prosthetic department at the Occupational Training School & Center

Education

- We wish to develop E-learning programs for distant learning and education.
- We are in the process of formulating the PhD program for Occupational Therapy.

Research

- The objectives of research have always been a part of the student programs. We look forward to collect data for standardizing scales on the Indian population in different fields of Occupational Therapy for the purpose of assessment and intervention.

Campus and Infrastructure

- Renovation of the department portraying the specialty areas developed in the past years, incorporating the facility of internet and intranet at Occupational Therapy Department.

Opthalmology

Patient care

- To buy three new Operating Microscope worth Rs. 60 lakhs
- To procure New Specular Operating Microscope and many more machines .

Orthopedics

Patient care

- Dedicated orthopaedic trauma unit with 3 orthopaedic table (2 clean and 1 septic table) in EMS
- To create more place in OPD to cater 300 patients per day
- Upgradation of OPD for more patient friendly out patient care
- Intensive care unit for Orthopaedic supra major cases
- Alloted time for OT to be increased with increase in number of OTs from three to four.
- Upgradation of equipments and facilities in the operation theatres
- To develop Computer Navigation assisted spinal surgery and arthroplasty
- To establish spinal rehabilitation center
- Bone banking advances

Research

- Research laboratory for stem cell, regeneration medicine, cartilage transplant, bone banking so as to work in direction of current technology developments across the globe.

Pathology

Patient care

- To upgrade of lipid and Enzyme Biochemistry with automated systems
- To re-establish Nephelometer quantity of Immunology parameters and plasma proteins
- To expand range of lipid profile investigation
- To continue up gradation of Surgical Pathology and Hematology with automated equipment and new techniques
- To initiate fluorescent microscopy for autoantibody testing - Immunology laboratory.
- To upgrade of hematology services with additional automated analysers.
- To enhance cytological techniques with cytocentrifugation, cell block preparation etc.
- To enhance surgical pathology services with automated equipment.
- To establish routine immunohistochemistry (IHC) for tumor markers.
- To establish routine IHC for estrogen and progesterone receptors of breast tumors

Education

- Creating a seminar room in the CVTC laboratory to hold teaching sessions for residents in Cardiology, Cardiac Surgery & Chest Medicine.
- Creating a museum in CVTC laboratory for display of mounted and wet specimens of hearts and lungs.

Research

- To initiate phase II of the Department of Biotechnology, Government of India funded collaborative research project with Department of Cardiac surgery – “Development of an experimental model employing vascular endothelial cells for its potential use in tissue engineered conduits.”
- To carry out Indo-US project related to dementia

Campus and Infrastructure

- Procurement of additional photomicrographic microscopes
- Procurement of Penta head microscopes.
- Modernization of museum is underway.
- Renovation of CVTC laboratories 116, 315, 316.
- Renovation of Pathology Seminar Hall
- Renovation / restoration of pathology museum, practical class, office

Pediatric Surgery

Patient care

- To establish Modular operation theater in pediatric operation theatre complex.
- Renovation of entire ward, ICU and OT

Pharmacology

Education

- To provide model prescriptions for common disease conditions to undergraduate students.
- Formulation of Specific instructional objectives for conducting lectures for undergraduate students
- Development of Centre for Pharmacodynamic studies to strengthen research and learning experiences to postgraduates

Research

- Upgradation of facilities for authentication and profiling of plant drugs.
- Upgradation of existing research facilities in the Department of Pharmacology and Therapeutics

Physiology

Patient care

- We intend to develop an efficient Exercise Laboratory
- To purchase a Body Composition Analyzer

Research

- To upgrade existing equipments for the purpose of research.

Physiotherapy

Patient care

- To set up Balance and Gait analysis Laboratory
- To establish Fitness testing and training laboratory
- To develop Cardio Respiratory Rehabilitation units
- Facilities for job analysis and prevention of injury

Education

- Laboratories with facilities to learn Exercise Physiology and Biomechanics, Electrotherapeutics and Electrodiagnosis
- Testing and training for Physical Fitness in students

Research

- Facilities for objective analysis of Physical function testing.

Campus and Infrastructure

- Lecture Theaters with audiovisual facilities
- Computers with advance Information Technology
- Restructuring and expansion to accommodate patient care & teaching centre systematically.

Preventive and Social Medicine

Patient care

- Preparation of manuals and SOPs focusing on quality health care
- Strengthening home based care at Urban Health Centre, Malvani.
- Practising Evidence based disease control activities in the community.

Education

- Implementing a certificate course on Leadership in Public Health in collaboration with University of Alabama, USA and MUHS.
- The department proposes to organize the first symposium on spiritual health to mainstream concept of scientific spirituality and develop guidelines for training and research with focus being on evolving scientific definition of spiritual health by consensus through the World Health Organisation

Research

- The department has been awarded research project on evaluation of Janani Suraksha Yojana by State Health Resource Centre, Govt. of Maharashtra.
- Research on 'Evaluation of Community based monitoring' will commence in 2011.

Campus & Infrastructure:

- Upgradation of teaching and training facilities with state of art equipment in the seminar hall
- Developing public health museum and public health laboratory for training of undergraduate and postgraduate students.

Psychiatry

Patient care

- Suicide Survivor Group: Group Therapy for survivors of individuals who have committed suicide is planned. These would include relatives, friends and acquaintances of persons who have died due to suicide. Group therapy will be used to help them deal with their guilt, anger and other emotional issues.

Education

- Introducing the OSCE format in training and examination of students

Research

- To study the psychosocial aspects of children living with HIV
- Research studies are planned to find out psychiatric morbidity, quality of life and daily living of patients and their careers.

Surgical Gastroenterology

Patient care

- To expand Liver Transplant Program
- To set up High Density Unit

Education

- To commence fellowship Program in HPB and Liver Transplant surgery.

Campus & Infrastructure

- To set up another ward to accommodate increasing number of patients to avoid overcrowding of the present ward.

Transfusion Medicine

Patient care

- To start granulocyte apheresis and therapeutic apheresis
- To increase voluntary blood collection to 50,000 annually
- To establish full automation in ELISA testing

Campus & Infrastructure

- Computerization in Blood Bank
- To complete renovation in Blood Bank.

Urology

Patient care

- Setting up of patient data archiving system (operative and clinical)
- Indo-US collaboration for organ transplant.

Education

- Projects: MUHS recognized courses for Urology OT Technician and Transplant Anesthesia
- Centre for training in urology recognized for fellowship by SIU.
- Stricture urethra workshop to be organized in March 2011
- Cadaver Retrieval Workshop to be held in April 2011
- "Urinary Diversion" Workshop to be organized in May 2011

Research

- Publication of book on instrumentation.

Campus & Infrastructure

- Renovation of OT to set up Modular Operation Theatre

Donations and Grants

Donations and Grants

Biochemistry

Department of Science and Technology grant of Rs.10, 00,000/- for Ph.D. Student Mrs. Deepa Mhatre

Cardiology

Mrs Panaben H Dossa donated 3.05 lacs for management of heart ailments

Chest Medicine & EPRC

Smt.Niharika. Agarwal donated 2 nebulisers and Dr Sucheta Dandekar donated 1 nebulizer each

Artificial ceiling in the IRCU replaced

Offices, faculty cabins and physiotherapy rooms renovated through donations

Cardiovascular and Thoracic Surgery

Dr TK Susheel Kumar donated surgical instruments for the OT

Clinical Pharmacology

Research grants were received from Dabur (6 lacs), Serum Institute of India (10 lacs), Cipla (5 lacs), Ipca (3 lacs) towards clinical trials.

Rs 7 lacs were also received from the Department of Biotechnology (DBT) for conduct of a clinical research workshop.

DBT also funded a project on leads from Aromatic and Medicinal plants (6 lacs)

CCRAS funded a project on correlation of Prakriti with genetic polymorphism of P2Y12 (8 lacs)

GI Surgery

Dr Abhay Dalvi (Chairman) and Dr Avinash Supe received 5 lacs towards the conduct of workshops for AMASICON.

Medicine and Medical Intensive Care Unit

Donations of water purifier for patient care by Bharat serum & vaccines.

Donation of books by Dr Atul Khasnis, Dr Paul Marino and Sanofi-Aventis

Neonatology

Rs 88 lacs received from Shantilal Sanghvi foundation for the Kangaroo Mother Care project

Neonatal resuscitator received from breathline equipments for patient care

Nephrology

Donations in Indian rupees received for strengthening the department

Dr. B.V. Gopinathan 5,000/-

Dr. Sukumar Laghate 5,500/-

Dr. Ajay Kanbur 10,000/-

Dr. Sanjeev Hiremath 25,000/-

Dr. Prakash Khetan 25,000/-

Dr. Dananjay Ookalkar 25,000/-

Dr. Vilas Naik 20,000/-

Dr. Amol Sawant 11000/-

Dr. Tushar Dighe 40,000/-

Dr. Arun Naik 10,000/-

Dr. Amita Naik 10,000/-

Dr. Apex Kidney foundation 90,000/-

Obstetrics & Gynaecology

ICMR HRRC (from ICMR)

Rs. 9 lakh	HRRC Interim Grant
Rs.37500/-	Teenage Pregnancy Project.
Rs. 1 lakh	Prevalence of Infertility Project.
PPTCT Department (from MDACS)	
Rs.1,43,168/-	Annual Grant
Rs.7000/-	STI Workshop

Occupational Therapy

Training Program: Heritage Health Care, Andheri, Mumbai partly sponsored 60th Foundation Day Celebrations on 15th November 2010 (Rs 5000/-)

Patient Care: Hemophilia Society Mumbai Chapter Donated “Ultrasound machine for Hemophilia patient care worth Rs 15,000/- in the month of October 2010 for CVTC Occupational Therapy Outpatient Department

Ophthalmology

State Government Grant of Rs. 30 lacs for upgrading Eye Bank

DJST 3.5 lakhs for Operating Microscope.+

Rs. 30,000 donated by Dr. Rumi Jehangir, Ex Professor & HOU of K.E. M. Hospital .

Donation Phacho Machine from M/S Surgicon worth Rs. 900000/-.

Pathology

Rs 60,000/- received from Mount Sinai School of Medicine for a Indo-US collaborative project on “Age-related cognitive loss in Mumbai”

Rs 5000/- received from Teaching Pathologists Conference group

Pediatric Surgery

Minimally Invasive Approaches to Pediatric Urology edited by Steven G. Docimo

Essentials of Pediatric Endoscopic Surgery edited by Saxena AK and Hollwarth ME

Open instruments 6 by biomedicon systems

Pediatrics

Donation of 10 beds (worth approx. Rs.80,000/-) by Bank of Maharashtra and co-ordinated by Dr Milind Tullu

Pharmacology

Funding received from Abbott Nutrition Research division (10 lacs), Marico Industries Ltd (7.34 lacs) and Charak Ltd (1.3 lacs) for clinical trials.

Physiotherapy

Patient care – Donated two skin temperature sensors by Ms Sonali Punalekar Rs 5000/-

Body fat analysers through DJST fund (n = 2.) Rs 30,000/-

Preventive and Social Medicine

Rs. 10,000/- sanctioned from Canara Bank for community program for the year 2010

Psychiatry

Donation arranged for Rs. 74,000/- also arranged Inj. Prolinate 200 Ampoules (RS4.400/)

Old clothes and food for needy patients were also provided through generous donations

Surgical Gastroenterology

Rs. 10,000/- sanctioned from Canara Bank for community program for the year 2010

Urology

Donations received of Endovision Camera, Indian Lithoclast and donations for urodynamic studies

Committees, Societies, Services and Publications

Committees, Societies, Services and Publications

Academic Committee

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

Chairperson : Dr. Sanjay Oak, Director (ME & MH)

Secretary : Dr. N. N. Rege, Professor & Head, Dept. of Pharmacology & Therapeutics

Sr. No.	Name of Academic Committee Members	Occupation & Designation
1.	Dr. Sucheta P. Dandekar	Professor & Head, Dept. of Biochemistry
2.	Dr. Pritha S. Bhuiyan	Professor & Head, Dept. of Anatomy
3.	Dr. Jayashree Gadkari	Professor & Head, Dept. of Physiology
4.	Dr. Amita Joshi,	Professor, Dept. of Pathology
5.	Dr. Preeti Mehta	Professor & Head, Dept. of Microbiology
6.	Dr. Sandhya Kamat	Professor, Dept. of Pharmacology & Therapeutics
7.	Dr. Smita Divate	Associate Professor, Department of Pathology
8.	Dr. Amar Pazare	Professor & Head, Department of Medicine
9.	Dr. Nitin Karnik,	Professor, Department of Medicine
10.	Dr. Varsha Kulkarni	Professor, Department of General Surgery
11.	Dr. Alka Gupta	Professor, Department of Obstetrics & Gynaecology
12.	Dr. Seema Bansode Gokhe	Professor, Department of PSM
13.	Dr. Mrudula Solanki	Associate Professor, Department of PSM
14.	Dr. Nilam Sathe	Asst. Professor, Department of ENT
15.	Dr. Ajita Nayak,	Associate Professor, Department of Psychiatry
16.	Dr. Mohan Desai	Professor, Department of Orthopaedics
17.	Dr. Nalini Shah	Professor & Head, Department of Endocrinology
18.	Dr. Avinash Supe	Professor & Head, Department of Surgical Gastroenterology
19.	Dr. Prasanna Nyayadhish	Professor, Department of Cardiology
20.	Dr. DV Kulkarni	Associate Professor, Department of CVTS
21.	Dr. Sujata Patwardhan	Professor & Head, Department of Urology
22.	Dr. Nithya Gogtay	Associate Professor, Department of Clinical Pharmacology
23.	Dr. Bhavana Mhatre	Associate Professor, Department of PT
24.	Dr. Amita Athavale	Professor & Head. Department of Chest Medicine & EPRC
25.	Dr. Snehal Desai	Associate Professor, Department of OT

A total of 5 meetings were held.

In the first meeting of the Academic Committee guidelines and areas of activities were finalized. Students' Grievance Committee was formulated as per directives of the University.

Activities

- Formulating academic program
- Maintaining a record of academic activities of various departments
- Support to students to attend scientific events outside India.
- Facilitating observorship for foreign students
- Crafting flexible programs for disabled students
- Guidelines regarding procedures to be followed to prevent and deal with unfair means, resorted to by examinee were formulated
- Disciplinary actions were recommended in some cases.
- Parent –teacher meeting to discuss issues pertaining to performance and attendance of their students.

Student's Grievance Committee

Coordinator: Dr. Amita Joshi, Professor, Dept. of Pathology

Sr. No.	Name of Student's Grievance Committee Members	Occupation & Designation
1.	Dr. Jayashree Gadkari	Professor & Head, Dept. of Physiology
2.	Dr. Alka Gupta	Professor, Department of Obstetrics & Gynaecology
3.	Dr. Bhavana Mhatre	Associate Professor, Department of Physiotherapy School & Centre
4.	Dr. R. R. Shinde	Professor & Head, Dept. of Preventive & Social Medicine
5.	Dr. Santosh Salagre	Associate Professor, Department of Medicine
6.	Dr. Aparna Deshpande	Professor, Department of General Surgery
7.	Dr. Snehal Desai	Assistant Professor, Dept. of Occupational Therapy School & Centre

Animal Ethics Committee

Established in-1997

Registered with CPCSEA in 1999 (Registration no. 60/1999/CPCSEA)

The Animal Ethics committee functions according to the guidelines laid down by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA).

Details of projects submitted to the Institutional Animal Ethics Committee in the year 2009 are as follows:

- Total projects received: 4 - No. of projects reviewed: 4
- No. of projects approved: 4

The current composition of the Animal Ethics Committee is as follows:

Name of Members	Position on Animal Ethics Committee	Occupation & Designation
1. Dr. N N Rege	Chairperson	Prof. & Head, Pharmacology & Therapeutics, Seth GSMC & KEMH.
2. Dr. S. K. Kamat	Member-Secretary	Professor, Pharmacology & Therapeutics, Seth GSMC & KEMH.
3. Dr S V Jalgaonkar	Member Co-ordinator	Assistant Professor, Pharmacology & Therapeutics Seth GSMC & KEMH.
4. Dr. Pradip Chaudhari	Main Nominee, CPCSEA	Scientific officer, Comparative Oncology & Experimental Nuclear Medicine, ACTREC, Tata Memorial Center.
5. Dr. Madhumanjiri Gatne	Link Nominee, CPCSEA	Professor & Head, Pharmacology & Toxicology, Bombay Veterinary College.
6. Dr. V. K. Shrivastava	Nominee, CPCSEA	Scientist outside the institute
7. Mr. A V Shah	Nominee, CPCSEA	Non-Scientific Socially Aware Member
8. Dr. S. P. Dandekar	Institutional Member	Professor & Head, Biochemistry, Seth GSMC & KEMH.
9. Dr. Varsha Kulkarni	Institutional Member	Professor, Surgery, Seth GSMC & KEMH.
10. Dr. P C Chauhan	Institutional Member	Sr. Veterinary Officer, Seth GSMC & KEMH.
11. Dr. M. J. Sathe	Institutional Member	Associate Professor, Microbiology, Seth GSMC & KEMH.
12. Dr. Sunanda Kirtikar	Institutional Member	Lecturer, Physiology, Seth GSMC & KEMH.

Committee for Academic Research Ethics (CARE)

The committee presently functions according to the requirements laid down in Schedule Y (20th January 2005) and is guided by the ICH GCP guidelines for Good Clinical Practice, ethical principles set forth in the Declaration of Helsinki and the Ethical Guidelines for Biomedical Research on Human Subjects laid down by the Indian Council of Medical Research. A total of **10 meetings were held in the year 2010**. A total of 164 Thesis & 119 Other Academic were submitted to the Committee for Academic Research Ethics for initial review during the year.

Activities of the CARE in the year 2010

27 projects were approved at first submission as there were no scientific and ethical issues in the submitted protocols.

Year 2010	Total reviewed projects	Under Process	Approved	Rejected
Thesis	164	85	79	NIL
Other Academic	119	85	34	NIL

Status of the ongoing academic projects as on 22nd December 2010

1 out of 185 projects submitted in the Year 2003 is ongoing

1 out of 135 projects submitted in the Year 2004 is ongoing

1 out of 103 thesis and 2 out of 78 other academic projects submitted in the Year 2005 are ongoing.

1 out of 78 thesis and 3 out of 72 other academic projects submitted in the Year 2006 are ongoing.

34 out of 275 thesis and 14 out of 80 other academic projects submitted in the Year 2007 are ongoing.

116 out of 233 thesis and 80 out of 117 other academic projects submitted in the Year 2008 are ongoing

196 out of 209 thesis and 54 out of 95 other academic projects submitted in the Year 2009 are ongoing

Constitution

Sr. no.	Name of Members	Position on Ethics Committee	Designation & Affiliation	Qualification	Gender
1.	Dr. Kamal Hazari	Chairperson (External)	(Former Sr. Deputy Director NIRRH – ICMR (Mumbai)	M.D.,D.G.O, DFP	F
2.	Dr. Yashashri Shetty	Member Secretary	Assistant Professor, (Pharmacology& Therapeutics), GSMC & KEMH	M.D., DBM.	F
3.	Dr. Anahita Chauhan	Member	Assoc. Professor, (Obstetrics & Gynaecology) GSMC & KEMH	M.D.	F
4.	Dr. Sona Dave	Member	Professor, (Anaesthesiology), GSMC & KEMH	M.D., DNB	F
5.	Dr. Praveen Iyer	Member	Assistant Professor, (Anatomy) GSMC & KEMH	M.D.	M
6.	Dr. Sandhya Kamat	Member	Professor, (Pharmacology& Therapeutics) GSMC & KEMH	M.D.	F
7.	Dr. Janhavi Kedare	Member	Associate Professor, (Psychiatry) GSMC & KEMH	M.D.	F
8.	Dr. Varsha Kulkarni	Member	Professor, (Surgery) GSMC & KEMH	M.S.	F
9.	Dr. Vikram Londhye	Member (External Scientific Expert)	Associate Professor (Medicine & Rheumatology clinic) TNMC & BYL Nair Charitable Hospital	M.D.	M
10.	Mrs. Manju Manda	Member (External Layperson)	Section officer, Railways	B.Sc Pharmacy	F
11.	Dr. Padmaja Marathe	Member	Associate Professor, (Pharmacology & Therapeutics), GSMC & KEMH	M.D.	F
12.	Dr. Sadhana Mahashabde	Member (External Legal Expert)	Advocate High Court	B.Sc., LLB, LLM, PhD.	F
13.	Dr. Ruchi Nanavati	Member	Professor and Head, (Neonatology), GSMC & KEMH	M.D.	F
14.	Mr. Elvis Thomas	Member (External Social Worker)	Faculty Member, College of Social Work of Nirmala Niketan Institute	M.S.W.	M

Department Development Fund

Achievements

- Donated two LCD projectors to MLT. (One small & two Large).
- Donated one computer to Dept. of Forensic Medicine.
- Provided internet connection to several Departments (e. g Dental, Dean , Dean Residence, PA to Dean, Student Section, Nurses Home, Superior Establishment,
- AE (M&E), Forensic Medicine.

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

Sr. No	Department	Project Name	Sponsor's Name
1	Endocrinology	PEARL Study	Pfizer Limited
2	Psychiatry	Protocol A7501012-1018: "A randomized, placebo-controlled, double-Blind trial of asenapine in the prevention of relapse after long-term Treatment of Schizophrenia".	Pfizer Limited

Sr. No	Department	Project Name	Sponsor's Name
3	Clinical Pharmacology	"Clinical Pharmacology study of artemether in hepatitis C virus infected patients, after repeated oral administration during 7 days : a proof of concept study"	Kemin Pharma
4	Clinical Pharmacology	"An open label, prospective, randomized clinical trial to assess safety and pharmacokinetics of recombinant anti-D immunoglobulin versus polyclonal anti-D immunoglobulin in health Rh negative study participants"	Bharat Serums & vaccines Pvt. Ltd
5.	Clinical Pharmacology	"Application of proteomics to aid biomarker discovery in smear in positive patients of P.vivax and P.falciparum".	IIT, Mumbai

Awards and Honors:

Interest from fixed deposits were given as prizes.

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 Orthopedic –Best resident.

9. Donation and Grants

Year Jan 2010 to December 2010.

Sr. No	Name	Income Donation/Grants
1.	Training Programs	6,86,140.00
2.	Awards	8,480.00

Diamond Jubilee Society Trust

Introduction

The Seth GS Medical College and KEM Hospital, Diamond Jubilee Society Trust was established in 1989 with the objectives of undertaking scientific, social and statistical research in the field of health, medicine and applied science, promoting medical education and to continually offer opportunities of upgrading knowledge, skills in the context of innovations, research and discovery in all fields of health and providing medical relief and undertaking development programmes in health services and upgrading health care facilities to various sectors of the society.

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 the institute as well as to the patient population at large.

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 2010 - 2013.

Composition

Managing Trustee: Dr. Sanjay Oak, Director (ME & MH) (G &K)

Secretary: Dr. N.N. Rege, **Treasurer:** Dr. A.N. Supe, **Trustees:** Dr. Ravi Ramakantan, Dr. Anil Patwardhan, Dr. Vishnu Kanhere, **Advisors:** Dr. R.D. Bapat, Dr. M.L.Kothari

Activities of the trust

For the year, Rs 3,64,57,172/- (inclusive of Foreign donations equivalent of Rs. 30,52,359/- and Govt. Research Grant of Rs. 50,46,968/-) were collected. These have been utilized for the following purposes:

Patient care

To strengthen the services offered by the institute to patients

- Donations worth Rs. 14,33,360/- were given in form of essential equipments, accessories and consumables to various departments, laboratories and intensive care units of the institutes as per their requirements.
- Patient education programmes of Patient Education Cell were supported.
- Emergency services are being supported through the collections of Sanyog Ganesh.
- Donation was accepted from Narottam Sekhsaria Foundation of Rs. 8,68,854/- towards purchase of instruments and equipment for the liver transplant program.
- Donation was accepted from Mr. Agni family of Rs. 20,00,001/- towards purchases of Erbe Water Jet Dissector for liver transplant programme.
- For the liver transplant, donations have been received from other donors as well (Total: Rs. 7,00,000/-).

Medical education

- Financial support of Rs. 1,10,000/- for 8 research projects undertaken by postgraduate students and for Junior Teachers 1,08,500/- were given.
- The students who have excelled in their academic career were awarded prizes and scholarships (n=30) by the trust. Funds for this purpose have been donated by past students and teachers of the institute in memory of their dear ones.

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

- MUHS approved Fellowship/Certificate courses by various departments
- DBT CRTC workshop Department of Clinical Pharmacology.
- Clinical Research Training Programme' for postgraduates conducted by Department of Clinical Pharmacology.
- Summer Training Programme' for students of science faculty conducted by Department of Pharmacology and Therapeutics.
- Shidori, the co-curricular programme for the undergraduate students.
- Pharma Quiz conducted by Department of Pharmacology & Therapeutics
- Student Quiz conducted by Department of Physiology
- Research Methodology workshop conducted by Department of Neonatology
- Training Workshop on Emergency Medicine and Disaster Preparedness' by EMS
- Cultural events like *Advait* (Marathi play competition in December) and *Aavishkaar* in the month of January (intercollegiate skill event).

Donations were accepted for the following Faculty development programs

- Sixth 'GSMC FAIMER Regional Institute' by ME Unit
- 12th Certificate Courses in Medical Education Technology' Part –I by ME Unit.
- Three Basic Courses in Medical Education Technology conducted by GSMC – KEMH- MCI Nodal Centre
- Workshops conducted by the individual Departments:
- 19th 'Functional Endoscopic Sinus Surgery Workshop' (ENT and Anatomy)
- CPR Training Course' (Anesthesia)
- International Liver Update' (Pathology)
- Head and Neck Oncosurgery (ENT)
- Cadaveric workshops conducted in collaboration with Department of Anatomy by Indian Arthroscopy Society, Bombay Orthopaedic Society, Dr Shekhar Bhojraj Spine Trust, Phonosurgery Workshops Trust, ENT Department of Hinduja Hospital and Plastic Surgery Department of Tata Memorial Centre

Medical Research

- The Trust has received donations (Rs. 2,83,57,845/-) for research projects undertaken by various departments. In addition, it received funds from Government organizations towards research projects (Rs. 50,46,968/-).
- Donation worth US \$ 7,945 (Rs. 3,52,083/-) was accepted from Mount Sinai School of Medicine (MSSM), New York, USA towards a research project "Age Related Cognitive Loss in Mumbai, India" for the Department of Pathology.
- Donation was accepted from Lagone Medical centre [through Bill and Melinda Gates Foundation] of US \$ 78,197 (Rs. 39,20,628/-) and US \$ 46,357 (Rs. 22,29,909/-) towards research project " The V3 loop: A conserved structure of gp 120 that can induce broadly neutralizing antibodies against HIV-1" for the Department of Microbiology.

Publications

- Annual Report of Seth GS Medical College & KEM Hospital-2009
- Donations were also accepted for publication of manuals/ abstract books and videos of courses, workshops and conferences conducted by the various departments.

Contribution from Alumni

- The trust has received donation from GOSUMEC Foundation, USA of \$ 60,000 towards establishing a GOSUMEC Foundation, USA merit scholarship program and \$ 901 towards 2010 GOSUMAG project. One lakh rupees was also received for upgrading resident quarters.
- The DJST also supported the KEM website, the KLEAN KEM campaign, computerization of Registration OPD and medical records section, audio systems in the theatres 2 and 5, maintenance of front lawn and gardens in the KEM campus and computer stationary for GS Medical College Office

Ethics Committee for Research on Human Subjects

Seth GS Medical College and KEM Hospital

Established: 1986

Reformulated in 1999 with the chairperson from outside the institution

Received the SIDCER recognition award for compliance to international standards in Nov 2009

First version of SOPs: May 2000

Second version of SOPs: Nov 2005

SOPs dated: 14th November 2008

Third version of SOPs: 26th June 2009

The committee presently functions according to the requirements laid down in Schedule Y (20th January 2005) and is guided by the ICH GCP guidelines for Good Clinical Practice, ethical principles set forth in the Declaration of Helsinki and the Ethical Guidelines for Biomedical Research on Human Subjects laid down by the Indian Council of Medical Research.

Activities of the ECRHS in the year 2010

A total of eleven meetings were held in the year 2010. A total of 45 pharmaceutical sponsored projects and 8 government sponsored projects were submitted to the Ethics Committee 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 ECRHS members, pertaining to modifications in the protocol were sent to investigators. The answers to ECRHS comments were then reviewed and the project was granted approval. Till date 17 projects out of 53 projects have been approved, and for the remaining 36, replies are awaited.

Status of the ongoing sponsored projects as on 22nd December 2009

1 project submitted in 1999 is ongoing.

2 projects submitted in the Year 2001 are ongoing.

1 project submitted in the Year 2002 is ongoing

5 /59 projects submitted in the Year 2004

3/52 projects submitted in the Year 2005 ongoing

6/64 projects submitted in the Year 2006 ongoing

12/69 projects submitted in the Year 2007 ongoing

17 out of 45 projects submitted in the Year 2008 are ongoing

25 out of 47 projects submitted in the Year 2009 are ongoing

Significant achievements and activities of the ECRHS in the year 2010

1. Three members of the ECRHS Dr. Urmila Thatte, Dr. Padmaja Marathe and Dr. Yashashri Shetty contributed as faculty in 1st National Workshop on Ethics conducted by FERCI in collaboration with Tata Memorial Centre Human Ethics Committee (TMCHEC) and Pfizer Ltd on Wednesday, 6th October 2010 at GJ Auditorium, Tata Memorial Hospital, Parel, Mumbai.
2. Dr. Yashashri Shetty presented a paper on "Providing Continuing Oversight for Ethical Health Research" presented at 10th annual international conference by the Forum for Ethical Review Committees in Asia and the Western Pacific (FERCAP) at the Equatorial Shanghai Hotel in Shanghai, China on November 22-25, 2010 and a paper entitled "Promotion of ethical health research by continuing oversight through site monitoring- Experience of an Institutional Ethics Committee in a tertiary care hospital in India" in UK SHETH Prize Paper Session held on 14th December 2010 at the 43rd Annual Conference of Indian Pharmacological Society (IPS) and International Conference on "Pharmacology & Translational Research at National Institute of Nutrition, Hyderabad.

3. Dr. Sunil Kuyare one of the ECRHS member, attended the workshop on 'Ethics Review of Clinical Research: A phase I training conference for research ethics committee members' at Hyderabad, India on 19th & 20th July 2010.
4. Dr. Sweta Salgoankar ECRHS member attended the workshop on 'DAIDS Regional Training Event' at Pune, India on 10–15 May 2010. The theme of the workshop was US–India partners in protection: addressing regulatory challenges in 2010.

Constitution of the ECRHS as on 22nd December 2010

Name of Members	Position on Ethics Committee	Designation & Affiliation	Qualification	Gender
1. Dr. Manu Kothari	Chairperson (External)	-	M.S., M. SC. (Anatomy)	M
2. Dr. Padmaja Marathe	Member Secretary	Associate Professor, (Pharmacology& Therapeutics) GSMC & KEMH	M.D.	F
3. Dr. Sandeep Bavdekar	Member (External Scientific Expert)	Professor and Head (Pediatrics), TN Medical College and BYL Nair Hospital.	M.D., D.C.H.	M
4. Dr. Kaizad Damania	Member (External Scientific Expert)	Professor (Obstetrics & Gynaecology) N. Wadia Maternity Hospital	M. D., DNB., F.C.P.S., D.G.O., D.F.P.	M
5. Mrs. Manisha Naik Dalal	Member (External Layperson)	-	M. Com	F
6. Dr. (Mrs.) Helen Joseph	Member (External Social Worker)	Faculty Member, College of Social Work of Nirmala Niketan Institute	M.S.W., M. Phil., Ph.D.	F
7. Dr. Sandhya Kamat	Member	Professor, (Pharmacology& Therapeutics), GSMC & KEMH	M.D.	F
8. Dr. Sunil Kuyare	Member	Assistant Professor, (Microbiology), GSMC & KEMH	M.D., DHA, FME.	M
9. Dr. Milind Y. Nadkar	Member	Professor, (Medicine), GSMC & KEMH	M.D., FICP	M
10. Dr. Sweta Salgaonkar	Member	Associate Professor, (Anesthesiology), GSMC & KEMH	M.D.	F
11. Dr. Yashashri Shetty	Member	Assistant Professor, (Pharmacology& Therapeutics), GSMC & KEMH	M.D., DBM.	F
12. Dr. Avinash Supe	Member	Professor & Head, (Surgical Gastro-enterology), GSMC & KEMH	M.S., FCPS, FICS, DME, DNBE, DHA.	M
13. Dr. Urmila Thatte	Member	Professor & Head, (Clinical Pharmacology), GSMC & KEMH	M.D., DNB., Ph.D.	F
14. Dr. D. N. Upasani	Member (External Legal Expert)	Medical Director, Ghatkopar Hindu-sabha Hospital, Mumbai	M.S., L.L.B.	M
15. Dr. Raakhi Tripathi	Co-opted Member	Associate Professor, (Pharmacology& Therapeutics), GSMC & KEMH	M.D.	F
16. Mrs. Sadhana Bhatkhande	Alternate Member, (Social Worker)	Medical Social Worker, (Psychiatry), GSMC & KEMH	M.A. (in social work), Masters in counseling and Psycho-therapy.	F
17. Mrs. Pratibha Rao	Alternate Member (External Layperson)	-	M. SC. (Chemistry)	F
18. Mrs. Pradnya Talawadkar	Alternate Member (External Legal Expert)	Project Manager, Ojus Medical Institute, The Tulip Star, Juhu Tara Road Juhu, Mumbai 400049	B.A.M.S., L.L.M.	F

Gosumec Alumni Association

Hon. President Sanjay Oak
Hon. Vice President Sharad Gogate
Hon. Secretaries Gita Nataraj & Ram Prabhoo
Hon. Jt. Secretary Dinesh B.Salgaonkar
Hon. Treasurer Nirmala Rege

Managing Committee members: Manu Kothari , Lopa Mehta Vidya Acharya, PD Munagekar, HD Pai, VM Dedhia, J Shah,

A Tilwe, S Puntambekar, M.Natrajan, M Kembhavi, M Sarkar, A Deshpande, RY Prabhu.

Highlight: The process of registration of GAA with the charity commissioner was completed (F 36688, Mumbai dt:18.2.2009) and Income tax exemption (80G)u/s 12A registration has been obtained having No.TR/42609 dt: 16/9/09. GAA PAN No: AAB TG 2311D

Membership: Presently the Alumni has 3872 members. This year, there was an addition of 172 members.

Donations: A donation of Rs. 3.4 lacs was received from the 1984 batch. Three water coolers and 4 water purifiers for Hostel and library were installed and books worth Rs. 116250/-was purchased. Dr. Shawkath Kero donated Rs 5 lacs. Three smart boards were purchased and installed in various lecture theatres and a portion of this is identified as contribution towards the "Poor Boys Fund".

Foundation day: On 21st January 2010, a contributory dinner with a musical program was arranged.

Educational Activity: 2 quizzes – one UG and one PG were funded.

Orations organized:

Oration	Speaker
Dr. Ivan J Pinto	Prof. Satyavan Sharma
Dr UK Sheth	Prof RA Badwe
Dr P Raghavan	Dr SK Acharya
Dr TO Shah	Dr Vijay Haribhakti
Dr MD Motashaw	Dr Vinay Sakhuja
Dr VN Bagadia	Prof Dinesh Bhugra
Dr PC Bharucha	Dr Subhash Kaul
Dr. AS Paranjpe	Dr. SL Bodhankar
Dr. G.M. Kurulkar	Dr. SD Gangane
Dr. AC Duarte Monterio	Dr. Indira Hinduja

Awards & Honors:

The Dr. R B Redkar Memorial awardees - Dr Zimpoo Mehta (Administrative Medical Officer), Smt. M.M.Gosavi (Hospital Office Administrator) and Smt. K.S.Naik (College Office Administrator) were felicitated on the foundation day.

Infection Control Committee (HIC)

The committee is chaired by Director (ME & MH,G & K) Dr Sanjay Oak, and has on its membership Dr Gita Nataraj (Microbiology) as Convenor, Dr A.K Gvalani (Professor and Head, Surgery), Dr Preeti Mehta (Prof and Head, Microbiology), Dr A R Pazare (Prof and Head, Medicine), Dr Ruchi Nanavati (Prof and Head, Neonatology), Deputy Dean, Dr S V vaidya (Prof, Orthopedics), Dr N.B Agarwal (Prof, CVTS) , Dr Himangi Warke (OBGY), Dr Smita Diwate (Pathology), Matron, Assistant Matron, Sister tutors, Superintendent Pharmacy and other administrative staff as members. Matron Khade and Matron Srivastava received a warm send off on their retirement and were thanked by the committee for their cooperation. Seven meetings were held during the year. A stringent check is kept on infection rate of the hospital, biomedical waste management and sterilization techniques. 'Hand Hygiene Day' was commemorated on 5th May, 2010. Brochures, posters and point of care awareness was conducted by the faculty of Department of Microbiology. The committee has worked to incorporate the safer non-aldehyde based surface and environmental disinfectant in the schedule and purchased fogging machines to facilitate environmental cleaning and disinfection in the operation theatres. In the coming year, the committee looks forward to improving compliance with hand hygiene, biomedical waste management and provides inputs as required in formulating the antibiotic policy.

International Journal of Ayurveda Research (IJAR)

The International Journal for Ayurveda Research, a publication of Dept. of AYUSH, Govt. of India, is a Quarterly peer-reviewed international journal. Dr. Urmila Thatte, Professor & Head, Dept. of Clinical Pharmacology is the Chief Editor. The journal's full text is available online at www.ijaronline.com . The journal allows free access (Open Access) to its contents and permits authors to self-archive final accepted version of the articles on any OAI-compliant institutional / subject-

based repository. The journal does not charge for submission, processing or publication of manuscripts and even for color reproduction of photographs. This is the first journal from India that can present to the world the wealth of science generated in Ayurveda in the medical schools and research organizations in the country.

Abstracting and Indexing information

The journal is indexed with Caspur, DOAJ, EBSCO Publishing's Electronic Databases, Expanded Academic ASAP, Genamics JournalSeek, Google Scholar, Health & Wellness Research Center, Health Reference Center Academic, Hinari, Index Copernicus, OpenJGate, PrimoCentral, ProQuest, PubMed, Pubmed Central, SCOLAR, SIIC databases, Summon by Serial Solutions, Ulrich's International Periodical Directory

Journal of Post-graduate Medicine (JPGM)

The Journal of Postgraduate Medicine (JPGM) was established over 56 years ago to provide a forum for the scientists to share their ideas, observations and opinions. The journal has remained devoted to this notion, while increasing its reach. The Journal is managed by the Editorial team:

Editor	Sandeep B Bavdekar
Associate Editors	Dr. Nithya Gogtay
	Dr. Dattatreya Muzumdar
Consulting Editors	Dr. Manjula Sarkar
	Dr. Milind Tullu
	Dr. Pradeep Vaideeswar

Contributors: This year the journal received over 1000 manuscripts, which is the highest number of manuscripts received any time since its inception. The contributors were drawn from all over the country. About 40% of the manuscripts are received from other countries. The country-wise distribution of foreign contributors is provided in Table 1.

Table 1: Contributions received from overseas

Country	No. of manuscripts submitted
United States of America (USA)	39
Turkey	33
United Kingdom (UK)	30
China	19
Greece	14
Saudi Arabia	11
Spain	11
Other countries	143

Reviewers: The journal's 4000-strong army of experts spread over all the continents helped in ensuring that only quality articles are published in the Journal.

Citations: The number of citations received is one of the ways of judging the quality of a journal. Table 2 shows the rising graph of citations received by JPGM over the last few years. The SCImago Research Group has ranked JPGM first amongst all Indian journals for the last five years (2004-08) consistently in terms of a composite SCImago Journal and Country Rank (SJR) and for cites per document in the last two years.

Impact Factor: The JPGMs impact factor for the year 2008 stands at 1. 389. With this, the Journal has maintained its second position amongst all Indian medical journals.

Commitment to open access: The JPGM is committed to ensure greater availability of information about clinical trials in the public domain. As an important step to fulfill this objective, JPGM has collaborated with other important Indian journals in drafting and signing a Statement that encourages scientists to register their trials.

Availability of digitized back issues: During the last two years, the JPGM has uploaded full texts of its issues published in 1976-79 at its website. With this, JPGM's issues published since 1976 are available on the net.

Enhancement of author-friendly character: Detailed instructions regarding manuscript preparation and submission have now been posted at the journal website. This has been done to enhance the 'author-friendly' character of the Journal. These instructions now clearly elucidate the nature of each section or article type published in the Journal.

Many new features have been added on the Journal website, maintained by the publisher. Medknow Publications and Media

Pvt. Ltd.:

Optimized content for mobile and hand held devices: It is predicted that the use of mobile and other hand-held devices (such as iPad, Kindle, iPod) in net browsing and literature search will increase with availability of newer devices and faster browsing speed. The journal website has a miniature site optimized for mobile devices.

Epub: Epub refers to the ebook version for hand held devices. This requires an eBook reader such as stanza, iBook, etc. Recent articles published in JPGM will be available through Epub.

EBook: A flip book version of an entire issue is now made available. This enhances readers' comfort, as it allows them to read it like an online book.

Monthly citation alerts: The publisher sends monthly alerts to authors whenever their article published in JPGM is cited by other authors.

Link to 'Sword Plugin for Repository': A new link has been provided from the 'Table of Contents' pages for 'Sword Plugin for Repository'. The plugin allows the repository manager to import the articles in the institutional repositories. There are over 2000 repositories worldwide having millions of articles. This would enable the librarians and repository managers to automatically include articles published by their staff in JPGM.

Efficient handling of manuscripts

Despite increase in the number of manuscripts received to over 1000, the journal has been able to handle manuscripts in an efficient manner, as shown in Table 3.

Table 3: Efficient handling of manuscripts

Parameter	Ave. time taken (days)
Days to suggest reviewers	11.5
Days taken by reviewers for initial review	16.81
Days taken by editor for Decision	11.66
Days from first decision until revision arrives	14.76
Days for editor to take final decision	01.93
Days from first submission to acceptance	114.25
Days from Acceptance to publication	67.00

Other measures:

The Journal articles are now linked with the Digital Object Identifier (DOI) system. This system ensures persistent identification.

In a bid to avoid delay, JPGM now provides alerts and reminders to authors and reviewers by sending an SMS on mobiles. JPGM is now has a firmer financial base and is able to contribute to the Staff Society's funds through the share in profits generated by the publisher Medknow Publications and Media Pvt. Ltd.

Medical Education Unit

Activities of Medical Education

The Medical Education Unit conducts a Certificate Course in Medical Education Technology for the new entrants in Medical Education. The Medical Education Unit continued a fellowship programme named 'GSMC-FAIMER Regional Institute' in collaboration with Foundation for Advancement in Medical Education and Research (FAIMER), ECFMG, Philadelphia, USA for the higher level faculty to create educational leaders and bring about curricular change.

A. GSMC-KEMH MCI REGIONAL CENTRE

The Medical Education Unit of Seth GSMC & KEMH was selected as one of the 10 **Regional Centre** in the country by MCI & thereafter upgraded to one of the four **Nodal Centres** in the country. The second and third workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the second week of March (10th to 13th March, 2010) and September (28th to 30th September, 2010) respectively.

1. 2nd MCI Basic Course:

The second workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the second week of March (10th – 13th March, 2010). The participants were from the Medical institutions from Maharashtra and Uttar Pradesh. A total of 21 participants attended the workshop. Of these, 10 were from Maharashtra (other than GSMC) and 2 were from Uttar Pradesh. The remaining

9 were from the parent institute (Seth GS Medical College and KEM Hospital). The designations are as follows: A. Professors - 2, B. Associate Professors – 5 and C. Assistant Professor – 14. Seven were from preclinical disciplines, 6 from paraclinical and 8 were from clinical disciplines.

2. 3rd MCI Basic Course:

The participants were from the Medical institutions from Maharashtra and Uttar Pradesh. A total of 26 participants registered of which 25 participants attended and 1 dropped out. Of these, 8 were from Maharashtra (other than GSMC), 4 were from Bhopal, 6 were from Madhya Pradesh, 2 were from Chattisgarh, 1 from Gujarat and 3 from Bihar. The remaining 1 was from the parent institute (Seth GS Medical College and KEM Hospital). The designations are as follows: A. Professor & Head - 5, B. Professors – 4, C. Associate Professor - 6 and D. Assistant Professor – 11. Eight were from preclinical disciplines, 4 from paraclinical and 13 were from clinical disciplines.

It was a 3 days workshop, including sessions on Basics of Medical Education Technology (Educational Objectives, Teaching Learning Methods and Assessment). During the sessions participants were also exposed to advanced topics of Interactive Teaching, Clinical Skills Assessment and Conflict Management in medical education. Following ME Unit members: Dr. Pritha Bhuiyan, Dr. Nirmala Rege, Dr. Avinash Supe, Dr. Shubhangi Parkar, Dr. Sucheta Dandekar, Dr. Preeti Mehta, and Dr. Yuvaraj Bhosale, Dr. K. Shyamkishore and Dr. Praveen Iyer conducted the sessions. The other resource persons were Prof. C.V. Patankar, Dr. Sandeep Bavdekar, Dr. Ahshwini Karve, and Dr. Henal Shah

B. GSMC Faimer Regional Institute

The sixth GSMC FAIMER Regional Institute programme was conducted at YMCA International House, Mumbai Central from 7th to 17th June 2010. A total of twenty participants from all over Maharashtra and outside Maharashtra participated in the programme. The FAIMER faculty namely Prof. Janet Grant and Ralf Graves alongwith Director and Dean Dr. Sanjay Oak inaugurated the programme. The programme module consisted of different sessions on Group Dynamics (Mrunal, Avinash, Sucheta), Good teaching Practices Student Assessment (Payal, Avinash, Ashwini), ML Web discussion (Anshu, Chetna, Avinash), Change Management (Janet, Henal) conducted by national and international faculties of GSMC FAIMER Regional Institute. The newly introduced the sessions of Distance learning taken by Janet & Praveen, Innovations in Assessment taken by Avinash & Dinesh, Conflict Management taken by Vimal & Shubangi, Microteaching sessions by Nirmala, Pritha and Smita and Qualitative Research taken by Janet & Nirmala. There was an interactive session of 2009 batch and 2010 batch alongwith the valedictory programme of 2008 batch.

C. Certificate Courses in Medical Education

Medical Education Unit conducted one certificate course-12 Certificate Course in Medical Education Technology. 20 teachers from various Mumbai medical schools were trained in the 12th certificate course. The First part of 12th Certificate course was conducted in October 2010. The sessions included basics of Medical Education Technology (Educational Objectives, teaching learning methods and assessment) in first three day sessions. The participants were also given educational research projects in their parent institutes. Following ME Unit members Dr. Pritha Bhuiyan, Dr. Nirmala Rege, Dr. Avinash Supe, Dr. Shubhangi Parkar, Dr. Sucheta Dandekar, Dr. Preeti Mehta, and Dr. Yuvaraj Bhosale the faculty members for the workshop. Dr. Shyamkishore, Dr. Praveen Iyer, Dr. Ashwini Karve, Dr. Sandeep Bavadekar, Dr. Munira Barot, Dr. Ajita Nayak, Dr. Raakhi Tripathi and Dr. Tejal Patel were also conducted various sessions as faculty members.

Medicines Monitoring Committee (MMC)

Composition of Medicine Monitoring Committee

Sr. No.	Name	Designation
1	Dr. Sanjay Oak	Director (ME & MH)
2	Dr. Urmila Thatte	H.O.D. – Clinical Pharmacology
3	Dr. Nirmala Rege	H.O.D. – Pharmacology
4	Dr. Sandhya Kamat	Professor – Pharmacology
5	Dr. Nithya Gogtay	Ass. Professor – Clinical Pharmacology
6	Dr. Padmaja Marathe	Ass. Professor – Pharmacology
7	Dr. Kamaxi Bhate	Ass. Professor – P.S.M. Dept.
8	Dr. N D Bhosle	Dy. Dean i

Sr. No.	Name	Designation
9	Dr. Milind Salve	Asst. Dean ii
10	Smt. Khade	Matron
11	Smt. Madhuri Doiphode	Supdt. of Pharmacy
12	Mr. Sheetal Chandan	Pharmacist
13	Mr. Milind Mohite	Head Clerk – Medical Stores
14	Mr. Santosh Kamble	Clerk - General Stores

- MMC was setup on 21st May 2009 to facilitate interaction between stores staff, nursing staff, physicians and pharmacy for better patient care and rational use of drugs.
- Survey done by MMC in various wards and medical stores and following were the findings:

Ward findings

1. Excessive stock of certain drugs being stored in wards
2. Drugs were not stored at correct temperature
3. Blood products and drugs were kept together
4. Lack of fridges in most of the wards
5. Various adverse Drug reactions were seen

Stores Findings

1. Procurement of medicines was delayed because of procedures like RP and non schedule purchase
2. Difficulty in approaching companies since strict requirement of WHO-GMP certifications
3. Shortages of computers and Printers
4. Lack of storage space

Action Taken by MMC

- There was a need of pharmacist to monitor medicines in the wards with respect to ward inventories, storage, availability and to co-ordinate with the stores. Meeting was held with Pharmacy Dept on 28th July 2009 to discuss this issue. Floor Pharmacist was appointed on 5th Sep 2009 for this work.
- Daily rounds of floor pharmacist in varies Wards/OT's and medical stores.
- Support from Administrative staff was received to solve the problems of procurement of medicines and other items.
- In the meeting with nursing staff on 15th Sep 2009, role of floor pharmacist was introduced to improve access of medicines to patients. Problems faced by Sister In-charge regarding indenting process, low doses of drugs, storage conditions, packing system of medicines, local purchase, Scheduled and Non Scheduled drugs were explained.
- Two meetings were held with stores staff on 6th and 12th Oct 2009 to discuss current status of budget, availability of medicines which are repeatedly used through appropriate procedure, quantification of medicines to know how much is used, quantification and rationalization of schedule drugs to save money and problems in procurement of non-schedule, local purchase of drugs and RP procedure.
- Weekly MMC meeting with the Director was held to discuss problems in availability of medicines, ADR, budget review and other wards, stores, dispensaries, OTs related problems.

Achievements of MMC

- Availability charts of monsoon related drugs were displayed on boards in fever OPD, ward 20, 22 (MICU), 4 and 12 and were updated on every Monday.
- Monthly Prescription monitoring outside dispensary was done to check medicines issued from hospitals and their availability. Significant improvement was observed from August to November 2009 in prescribing medicines which were available in the hospital.
- ADR form was made available on Intranet for reporting and sending to FDA for further necessary action.
- List of availability of medicines mentioned in Sch I, II and III (Tablets, Capsules, Injections, Syrups, local applicants) was put on Intranet and regularly updated.
- 4 new SAP computers with printers were made available to stores for keeping records of medicines and drugs and to fasten the work of procurement.

- Enthusiastic support was received from Sister In-charge in communication with floor pharmacist for solving problems like of non availability of medicines, reporting ADRs and lack of fridges.

Mumbai Breast Feeding Promotion Committee

Mumbai Breast Feeding Promotion Committee is a collaborative group of NGOs, UNICEF , Medical Colleges (Dept of PSM, Obstetrics & Gynecology, Pediatrics and Neonatology) working towards the promotion of Breast feeding in the community. The activities involved are crating awareness by conducting trainings for health professionals, health education in the community by lectures street plays and songs and slogans. There are a total of 78 members. President- Dr. Jayshree Monker, Head of Neonatology, LTM Medical College, Member secretary Dr. Kamaxi Bhate, Associate Professor, Department of Preventive and Social Medicine KEMHospital and Vice President Dr. Ruchi Nanavati , Professor and Head- Department of Neonatology, KEM Hospital.

Research Society

Office bearers

Hon. President	Dr. Sanjay Oak
Hon. Vice President	Dr. Shubhangi R. Parkar
Hon. General Secretaries	Dr. N. Sawant, Dr. M. G. Karmarkar
Hon. Treasurer	Dr. Pradeep Vaideeswar
Executive Committee members	Dr. A. Gupta, Dr. Preeti Mehta, Dr. Amita Joshi, Dr. Chetan Kantharia, Dr. Jayashree Gadkari, Dr. Manjula Sarkar Mrs. Zarine Ferzandi Dr. S. Ravat

Research Grants

Sr. No.	Department	Title of Project
1	Dr. NN Rege Prof & Head – Pharmac pharmacology	Isolation, Expansion, Characterization, Differentiation and Cryopreservation of multipotent stem cells from human hair follicles using ayurvedic rasayana plants
2	Dr. Akash Shukla AP – GI Medicine	To study the histopathological features of acute on chronic liver failure and its relation to clinical outcome
3	Dr. S R Parkar Prof. & Head, Psychiatry	A study of HIV associated dementia in a sample of 100 seropositive patients in the HIV clinic of a general hospital

Donations Received

Sr. No	Department	Title of Project	Sponsors Name
1	Cardiology Dr. P. G. Kerkar	Seraphin study	Actelion Pharmaceu- tical
		Predict Study	Sanofi -synthelabo India
		Protocol H7T-MC-TABY(B)	Quintiles Research (I) Pvt. Ltd
2	Neurology Dr. S.H.Ravat Prof. & Head	Johnson & Johnson study - A Randomised, double blind, placebo controlled, parallel-group, multicentre study to evaluate the efficacy, safety and tolerability of RWJ-333369 as adjunctive therapy in subjects with partial onset seizures followed by an open label extension study	Johnson & Johnson
		Brivetiracetam : An open label multicenter, follow up trial to evaluate the long term safety & efficacy of brivaracetam used as adjunctive treatment at a flexible dose upto a maximum of 100mg/day in subjects aged 16years or older suffering from partial onset seizures	PPD Pharma De- velop. India

List of the ongoing projects

- Psychiatry
 - Protocol no. R076477-SCH-3015: Quintiles Research (I) Pvt. Ltd.
 - Protocol No.: 99824 - Lundbeck India Pvt.Ltd

2. Cardiology
 - o Current / Oasis -7 study– St.John's Medical College, Bangalore
 - o Seraphin study: Chiltern International Pvt.Ltd
 - o Predict Study: Sanofi -synthelabo India
 - o Protocol H7T-MC-TABY(B):Quintiles Research (I)Pvt. Ltd
3. Neurology Department
 - o Brivaracetan PPD Pharma Develop. India P.Ltd
 - o Johnson & Johnson study - Johnson & Johnson Ltd.
 - o PRA International - PRA International
 - o Quintile Clinical trial -Epilepsy Study - Quintiles Research (I)Pvt. LTd
 - o Reliance Clinical Trial - Rel Life Sciences P.Ltd

Award: Dr. Sohrab A.E.Hakim Prize in Ophthalmology – a cash prize of Rs. 500/- given to Namrata Joshi, IIIrd MBBS Workshops: 1) Workshop On Statistics And Research Methodology 2) Pubmed searching and 3) A one day workshop on Good Clinical Practices

Staff Society

Executive Committee members and office bearers of Staff Society is as follows.

Office bearers

President	Dr. Sanjay Oak
Vice President	Dr. Manjula Sarkar
Treasurer	Dr. Santosh Salagre –Medicine,
Hon. Secretary	Dr. Seema S Bansode-Gokhe – PSM
Hon.Jt.Secretary	Dr. Kishor Khushale-Anatomy
Editor JPGM	Dr. S. Bavdekar

- Executive Committee Members: Dr. Dhangauri Shenvi-Physiology, Dr. Urmila Thatte -Clinical Pharmac, Dr. M. Sathe-Microbiology, Dr. Shrikala Acharya-PSM, Dr. Raakhi Tripathi-Pharmacology, Dr. Uma Shinde-Biochemistry, Dr. Ashish Nabar-Cardiology, Dr. Shilpa Sankhe-Radiology, Dr. S.R.Parkar-Psychiatry, Dr. Mohan Desai-Orthopedics, Dr. Chetan Kantharia -GI Surgery, Dr. Nilam Sathe-ENT, Dr. Ajay Mate-Surgery, Dr. Hemangi Warke-Obst. & Gynac, Mrs.Aarti Manghani -OT
- During period from January 2010 - Dec 2010, the meetings were organized as shown below.
- Total Monthly Scientific Meetings: 8
- Amrit Modi Award Paper Presentation Meetings: 2
- Guest lectures & Felicitations: 6
- **Executive Committee Meetings : 6**
- **Annual General Body Meeting : 1**
- **Foundation Day programme:** Contributory Annual Dinner organized by the Staff Society with musical programme "Jeevangani" and dinner in College lawn.
- **Orations:** Orations organized with collaboration of other societies.
- **Donations** received from The Parel Chemist Gift shop Rs.10000/- & Mr. Shetty 10000/- towards Foundation Day Dinner Programme of Staff Society. Sponsorship from Canara Bank Rs.10000/- and Medknow Publications & Media Pvt. Ltd. Rs. 44597/- (20% profit share).

Telemedicine

The Maharashtra Telemedicine Project is 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 initiatives taken under the National Rural Health Mission (NRHM). The annual budget provided for financial year 2010-11 is Rs. 479000. The KEM Hospital Telemedicine Center has been connected with Telemedicine Centers at Alibaug, Beed, Chandrapur, Karad, Latur, Nandurbar, Ratnagiri, Sindhudurg and Thane through a satellite link.

The KEM Hospital Telemedicine Center is working as a Specialty Center and its doctors are providing expert advice to patients and doctors from these centers. The working of the KEM Telemedicine Center is supervised by the a committee headed by the Director and Dr. Sandeep B Bavdekar, Professor of Pediatrics, Dr. Kamakshi Bhate, Assoc. Professor, Preventive and Social Medicine and Dr. Milind Tullu, Associate Professor of Pediatrics are members. The day-to-day working of the Center is carried out by Mr. Sandeep Mehendale, Facility Manager.

A total of 2121 patients have derived benefit of expert advice during this year. 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.

Table 1 : Center- and month-wise statistics of number of patients referred for expert opinion through the Telemedicine Network

No	Center	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2	Alibaug	2	8	2	1	1	0	0	0	4	0	0	0	18
3	Beed	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Chandrapur	15	11	19	10	17	24	21	22	8	0	0	0	147
6	Karad	17	14	10	3	6	7	20	7	10	0	0	0	94
8	Nandurbar	90	109	116	125	89	109	102	70	8	0	0	0	818
10	Ratnagiri	23	27	40	38	50	50	68	51	21	0	0	0	368
11	Sindhudurg	95	74	62	58	9	13	2	4	8	0	0	0	325
12	Thane	29	58	60	63	28	39	29	20	35	0	0	0	351
	Total	271	301	309	298	200	242	242	174	84	0	0	0	2121

Women's Development Committee

The WDC was established in this hospital in Nov 2006 and comprises of representatives from the various cadres of teaching, non-teaching, nursing, and clerical, labor staff and medical students. The WDC is looking after the welfare of women employees and students.

It has conducted the following activities over the 12 month period.

Haldi Kumkum as a part of Sankrant festivities on 14 th Jan 2010 with a talk on “ Jhatpat Naashte”

Poster competition for all employees and students of KEM Hospital on the theme : Stree ani karkarog pratibandhak upaay was held at CVTC Nursing hall . 33 participants were there and 3 prizes were declared.

The International Day of the Woman- A poster competition and exhibition was held. There was also an exhibition of paintings by Mr Chapte, from the Artist Dept. A release of the educational posters prepared by PEC on cancer prevention was done at the hands of all the dignitaries. A Symposium on “Early Detection & Prevention of cancers in women” was held and Dr Vani Parmar spoke on Breast cancers and Dr Ashwini Bhalerao Gandhi spoke on Cervical cancers. Prize Distribution of the poster competition was done at the hands of Chief Guest Mrs Sonia Parchure. This was followed by an enjoyable Marathi Ekankika “Chala Natak karuya” by the staff & students

A talk on “ Know your rights – Domestic Violence and the changing Scenario” was given by Adv Ujwala Kadreker.

Talk show with Mr Arun Nalavde , Mr Ramesh Pawar, Mr Avinash Narkar on Badalti Sanskruti.

A Rangoli Competition for the staff & students on the theme Stree. There were 27 participants and 3 winners. The rangolis were judged by Mrs Srivastava and Mr Mahadik.

Har ghar ki Nari suraksha “ : Demonstration on safety when using LPG cylinders was done by social worker Mr Mane from Latur.

29th June 2010 : A talk on “Bachatiche Pariyay” taken for employees of KEM by a representative from MAVIM.

14th July 2010: Talk on ‘Susamvad” taken by Dr S. R. Parkar for all employees.

Debate on “ Emergency contraceptive pill : Need of the hour” was taken for UG students of medicine/ nursing /OT/PT. The judges were Dr Kharkar and Dr Sujata Dalvi.

Marathi movie screenings : “Happus” with Chitrasamvad and Swatantryachi aaishi taaishi

Working Committee for the Prevention of Sexual Harassment at Workplace

Prevention of Sexual Harassment at Work place is as per the Municipal Corporation's policy of zero tolerance against women at the work place. In MCGM there are 64 Local Complaints Committees in various offices, ward offices , hospitals and Medical colleges . There is a single coordinating committee to these 64 committees which is called the Working committee. Chair person of this working committee is the Woman in the highest in MCGM, there is a Member Secretary and other ten members including a NGO member. Apex committee is of two persons with Municipal Commissioner as a chair person and the Chair person of the Working Committee as a Member Secretary. Dr. Suhasini Nagda Dean Nair Dental is the Chairperson and Dr Kamaxi Bhate in member secretary of the working committee.

Support Services

Support Services

Dietetics

- Diets were prescribed and counseled to approximately 13,000 patients including indoor and outdoor both in the year 2010.
- This includes references of medical, surgical, pediatric, orthopedic, burns and other specialty units and accordingly Oral, Enteral or Parenteral diets are planned.
- ICU, hematology and Follow-up patients are assessed on regular basis.
- Quality checking of perishable items (vegetables, fruits and grocery) done daily
- Menu planning as per seasonal vegetables.
- Supervision of food preparation and distribution and food tasting
- Maintenance of kitchen

Mrs. Manasi. Bapat (Department of Nephrology)

- Diets were prescribed and counseled to approximately 13,500 patients including indoor and outdoor
- Diet counseling done 3 times a week

Mrs. Safala Mahadik (Departments of Cardiology, Cardiothoracic Surgery and Chest Medicine)

- Diets were prescribed and counseled to approximately 13,200 patients including indoor and outdoor both in the year 2010.
- Daily ward rounds are taken of LICU (ward 31), IRCU (ward 32) and ICCU (ward 35)

Other activities

- Mid day meals provided to BMC school children were assessed and analyzed and accordingly modifications were done to enhance the nutritive value and provide a balanced diet.
- Cyclic menu was planned for Adivasi children (6-18 years)
- Diets were formulated for Mumbai Police Dept. Force-1 Commando group A lecture was given on balanced diet to the commando group (Mrs Manasi Bapat)
- A talk was given for hypertensive and diabetic patients on the occasion of World
- Health Day held at Malwani Urban Health Centre for PSM Dept.
- Internship training for approximately 60 post graduate students of "Nutrition and Dietetics" was given
- Conducted a workshop on "Role of nutrition in Hypertension" organized by Dept. of Medicine for resident doctors on 20th December 2010
- Oral Nutritional Supplementation in Hospital Patients" a study conducted in collaboration with Department of Pharmacology
- Drug trial study on 'Darbepoitein' for AKD Dept. (Mrs M Bapat)
- Clingiene study on osteoporosis" of endocrine department (protocol no. MK-0822-018). Dietary calcium questionnaire is formed in which dietary calcium was calculated of 181 subjects and accordingly required changes were done.(Mrs Safala Mahadik)
- Article was published for a diet in monsoon season as "Eat Healthy Be Healthy" in a daily newspaper "Maharashtra Times" (Mrs BM Lewis)

Dispensary

Most of the medicines are dispensed through 5 units (1 Main unit is working round the clock) to the O.P.D. patients and various preparation as per K.E.M. formulary like Glycerine Acriflavine, Glycerine Magsulf, M. S. liniment, Acne Lotion and Eusol Soln. for indoor patients from Dispensary.

Staff Working at Dispensary

- Supdt. of Pharmacy, Smt. Madhuri G. Doiphode
- Dy. Supdt. of Pharmacy
- Head Pharmacist, Mr. Vinod Gamare
- Senior Pharmacists
- Pharmacists

Engineering (Civil)

- Civil Department in K.E.M. Hospital manages the day to day maintenance of Hospital buildings for smooth functioning of Hospital activities in coordination with various departments.
- In 2010 following major renovation activities were carried out by Civil Dept.
 1. Rearrangement in Municipal School premises at Bawlawadi for RMO Quarters of K.E.M. Hospital
 2. Renovation of Boys Hostel at Naigaon
 3. Complete Renovation with modern look of Orthopaedic Centre OPD at Orthopedic Building.
 4. Complete Renovation with modern look at Pathology at CVTC Building.
 5. Complete Renovation with modern look of Chest Department CVTC Building
 6. Construction of Seminar Hall at 1st floor Blood Bank.
 7. Research Room at Ground floor for Cardiology Dept.
 8. Renovation of common amenities (Toilet Blocks) in CVTC Building.
 9. Improvement of surrounding of Library Building with pavers.
 10. Improvement of passage near gate no 8 for garbage collection point.

Engineering (Mechanical and Electrical)

Maintenance activities of Mechanical and Electrical Engineering equipments such as Generators, Central air Conditioning plants, Lifts, Medical gases, Central Oxygen supply system, Central Suction, Central Compressed Air, Central LPG, Fire fighting system, EPABX System & about 300 computers its peripherals, PA SYSTEM. AMC/CMC of all medical equipments is being looked after by this department.

Achievements

- Replacement of old Central AC plant of 'Voltas' with the new energy efficient central AC plant of 'Blue Star' make along with the new chiller line is in progress. One plant of 450 TR is installed.
- Replacement of Central AC plant of Library building. The work is entrusted to M/s. Blue Star Ltd & is in progress.
- Replacement of Central AC plant of CVTC building. The work is entrusted to M/s. Blue Star Ltd & is in progress
- Work of Replacement of AHU at NICU, 7th floor Microbiology, 6th floor Orthopedic Office, and 2nd floor GI recovery room of M.S. Building.
- Work of Replacement of AHU at Wd 35 ICCU, Pathology Lab 1st floor, Ground floor of CVTC building
- SITC of Walk in cooler for Blood Bank (0 degree C to 8 degree C)
- Replacement of false ceiling of Library 1st floor.
- Replacement of false ceiling of Wd 35, Pathology lab, LFT lab at CVTC building
- Electrification of Main Ladies Hostel
- Electrification of Orthopedic OPD ground floor of OC building.
- Electrification of PSM department, 3rd floor Library building.
- Electrification of new Liver transplant OT
- Electrification of Pathology Lab of 1st floor CVTC building.

Following Staffs are working in M & E Section of K.E.M. Hospital

Name	Designation	Inter com	Direct line	e-mail
Ashok Shetti	Assistant Engineer	7030/7459	24107030/7459	Shetti_ashok @ rediffmail.com
Anand Gawli	Sub Engineer	7868	24107868	athravanand@gmail.com
Hiten Rane	Sub Engineer	7799	24107799	hitenrane@gmail.com
Rajesh Pawar	Sub Engineer	7456	24107456	
Amol Rathod	Junior Engineer	7456	24107456	amolforall@gmail.com
Smt. Patil	Head Clerk	7835	24107835	
Alka Phatak	Clerk (AMC/CMC)	7835	24107835	
Shubangi Tambe	Clerk (Repairs)	7835	24107835	
Rajesh Solanki	Clerk (Stores)	7460	24107460	
Bina Kambli	Clerk (Scrap)	7459	24107459	
Anil Bhadarka	Clerk (Medical Gas)	7231	24107231	
Suresh Pote	Clerk (Dispatch)	7455	24107455	
Bina Desai	Clerk (Purchase)	7455	24107455	
Seema Sawant	Typist	7030	24107030	

Name	Designation	Inter com	Direct line	e-mail
Anant Jhujham	Shop recorder	7459	24107459	

Furniture and linen

This department includes 1 Head Clerk (common to Diet Dept.), 1 Clerk, 1 Clerk (half day) and 2 Hamals.

All types of linen and a few surgical dressing materials are purchased and issued by this department. Doctors' aprons, technical staff aprons, ward boys' and ayah's clothes are issued. Bed sheets, mattresses and patient's linen are also issued. Material is purchased from scheduled contractors which are fixed by Furniture & Linen Committee-K.E.M. Hospital through the process of tendering. Ledger books are maintained and records of issue, posting, balance and billing work of purchase is done here.

Laundry

It includes 1 Head Clerk (common to Diet Dept.), 1 Clerk, 3 Laundry Assistants and 7 Labour staff. All soiled linen from various wards and theatres are collected and given to Municipal Power Laundry (MPL) and private dhobi's for washing and ironing. The linen are then collected and distributed to the respective wards and theatres from where they were received. Record keeping and billing is done on a daily basis.

Library

- Seth G.S. Medical College, Library completed work of barcoding to bound Volumes in the library
- Subscribed 158 journals, and purchased (194,119,353) 666 books. The online access to 210 journals was made available to all on Intranet.
- Seth G.S. Medical College Library has been selected as member of ERMED Consortia of 'National Medical Library', New Delhi. This has enabled us to access 2400 medical journals online on Intranet.
- We had continued to subscribe 5 databases and along with proquest Database we have included springer-vertag journals & dissertations. Online access to all the Springer journals & dissertations will be available on Intranet.
- The computer section was upgraded & 5 new computers with Internet access provided for students on payment of charges Rs.10/- per hour.

Holdings: Library journals' holdings are available on the KEM

Donation and Grants:

- Seth G.S. Medical College 1984 Batch students have donated a Water-cooler for Library Building.
- National Medical Library has given free online access to 2400 Medical journals through ERMED Consortia on Intranet on IP address & username password.

Looking Ahead:

Education: We are planning to subscribe more databases such as Micromedics, and e-books, so that Doctors will get relevant latest information immediately on Intranet

Equipment : It is proposed to purchase steel trolley type racks for keeping bound volumes. It will save the space in the Library and more space will be available for reading. It is proposed to purchase Library Security System for Library.

Library Committees:

The Library Committee is an advisory committee and following members are present in it. Dr. Ravi Ramakantan has retired due to Superannuation from 1st Dec 2010. Dr. Hase has been chosen by the committee as Prof I/c of Library.

- The Dean
- Dr. N.K. Hase
- Dr. Ravi Ramakantan
- Dr. S. V. Parulekar
- Dr. A. N. Supe
- Dr. C. T. Deshmukh
- Dr. Amita Mehta
- Dr. Nalini Shah
- Dr. Nithya Gogtay
- Dr. P.S. Bhuiyan

11. G. S. of Student

12. Mrs. S.B.Kolekar

The Library Committee meets periodically to take policy decisions. It helps the Chief Medical Librarian for deciding the purchase of Medical Journals, Medical databases & other Library material.

Library Committee members help the library to introduce new technologies such as Intranet, which help readers to get better services. They try to get donations/grants for Library.

Overall the Library Committee looks after the welfare of Library.

Staff	Names
Librarian	Mrs. S.B. Kolekar
Jr. Librarian	Smt. M.S. Khochikar
Jr. Librarian	Smt. S.T. Ghule
Jr. Librarian	Smt. S.S. Sapre
Clerk-cum-Typist	Smt. S.U. Dhuru
Record Assistant	Shri. R.S. Bamne
Lib. Asst. - Eleven	
Lib. Attendant - Four	
Servant - Six	
Short Issue : 333	
P.G. Daily Issue : 5390	
Home Issue : 231	
U.G. Daily Issue : 13323	
(Mrs. S. B. Kolekar) Ch. Med. Librarian	

Medical Record Office

- This office has been recently computerised both for outpatient registration and indoor registration. It is manned by 36 staff members round the clock. The International classification of diseases (ICD10) code has been procured and installed in to the computer software. Data on patients and diseases is now available at the click of a button.

Medical Stores

- The medicines procured by the Medical and General Stores is being approved by Pharmacy Dept.
- The Medical Stores is governed by Pharmacy Dept. Four Pharmacists are posted in Medical Stores. In the stores the medicines are procured, stored and distributed to various wards, dept., theatres as per the requirement.

Pharmacy

Principal activities

- The department performs steam sterilisation and E.T.O. gas sterilisation of materials received from wards and Operation theatres.
- 5 units work round the clock
- Prepares E.D.T.A., Fluoride, Phenol bulbs and empty bulbs required for collection of blood and urine samples.
- Supply of sterile distilled water and distilled water to wards and laboratories.
- Orientation given about functioning of C.S.S.D., Pharmacy, functioning of stores, various dispensing units, preparation of various mixtures, ointments, lotions and distillation unit to students of Diploma and Degree College of Pharmacy and to post graduate Hospital Administration students on their hospital visit
- Glycerine Acriflavine, Glycerine Magsulf, liniment, acne lotion and Eusol Soln. for indoor patients are prepared and dispensed.
- Mrs M Dhoiphode and Mr S Chandan also serve on the Medicines Monitoring Committee and Mr Chandan is the floor pharmacist

Poor Box Charity Fund (PBCF)

Donations are collected in PBCF various donors and from sources such as Prime Minsiters National Relief Fund, Chief Minister's Relief Fund, Siddhivinayak Trust, Mahalaxmi Trust and Sai Baba Sansthan. The money is used for poor and

deserving patients. This year a total of 2.5 crores were disbursed to benefit 18000 patients. Approximately 3 crores 4 lakhs were donated by Jeevandayee Yojana and 450 patients were benefitted.

Social Service

1. The total donation in Rs. 6,53,72,512/- has been collected
2. Lunch project for relatives of patients coming from out of Mumbai is conducted daily where free meals are provided
3. Medical Social Workers posted in blood banks have organized a total of 160 blood collection camps and have collected total 42,000 blood bags
4. Conducted session on world schizophrenia day for relatives of patients suffering from schizophrenia on 24.5.10
5. World no. tobacco day- participated in panel discussion in CVTC auditorium
6. Lectures on Addictions and their effects treatment and rehabilitation to municipal class IV employees and their spouses and to unorganized sector and staff from Mantralayas were delivered
7. Awareness on HIV/AIDS was organized on 'World AIDS Day'

Glimpses of History

Glimpses of History

Parel: From History to Hospitals

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

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

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

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

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

Hospitals & Medical Colleges

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



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

be properly qualified independent Indian gentlemen not in government service.

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

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

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

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

Medical Research

Medical research too has its own home in Parel. The Plague Research Institute was opened on August 10, 1899 by the then Governor of Bombay, Lord Sandhurst. Dr. WM Haffkine was its first Director in Chief. This institute produced the plague vaccine for use all over India. It was located in the old gubernatorial mansion in Parel (left vacant by the Governor's move to

Malabar Point). The institute was renamed “The Haffkine Institute” after 1930. Today, the institute produces rabies vaccine and snake anti-venom besides conducting many other research activities.

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

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

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

Vinita Salvi

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

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

Food for Thought

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

Washing Dirty Linen

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

Sweeping Times

Keeping the place clean sends a shiver down the spine of even the most efficient administrator. KEM hospital generates 1300

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

Let Your Light Shine

The surgeon concentrates on the field of surgery, scalpel in hand, ready to make his next move. Suddenly, he is instantaneously blinded as the bank of theatre lights overhead shut off in response to a massive power failure all over Mumbai. But, before he can ponder his next step, the lights come on again.- The emergency generators automatically take over and the theatre is flooded with light once more. The hospital receives its power supply through 15 main electrical cables with as many as 60 meters. The power supply to the various areas is then segregated into those that serve critical areas such as operation theatres and intensive care units as compared to the other areas. The cables to the essential areas are connected to an automatic mains failure panel, which is set to recognize any interruption in the power supply lasting 3 seconds. The diesel-fired generators are automatically triggered and generate sufficient power to supply all the critical areas of the hospital, within the; next 15 seconds.

The responsibility of ensuring that all systems are kept going and machinery functioning properly lies in the hands of the Electrical Department. This department must also attend to the maintenance of the central suction pipes, which are essential in any hospital, and the supply of compressed air and medical gases such as oxygen and anesthetic gases. Currently, besides their usual job of ensuring an uninterrupted water and electrical supply and making certain that all things electrical are humming smoothly, the department staff are immersed in attending to the high-tech ultra-modern "Emergency medical services" that has just been commissioned. It effectively means that they are trying to be in a dozen different places-attending to a hundred different tasks all at the same time. Mr Choukkar, the Assistant Electrical Engineer earnestly explains the electrical maintenance work as he simultaneously juggles with a telephone instrument needing repairs.

All vital areas of the hospital, such as operation theatres and intensive care units, have to be centrally air-conditioned. The animal house too requires this facility. A total of 47 Air Handling Units (AHUs) ensure that these areas, and those within, remain cool. Additional package air-conditioning units have been installed in certain operation theatres and laboratories while 140 window units also service smaller areas. On the other hand, the Transfusion Medicine, and the two mortuaries require an even lower temperature and thus need separate refrigeration units. In effect, vast quantities of energy are expended to ensure an optimum temperature in the requisite areas.

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

The Water of Life

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

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

Vinita Salvi

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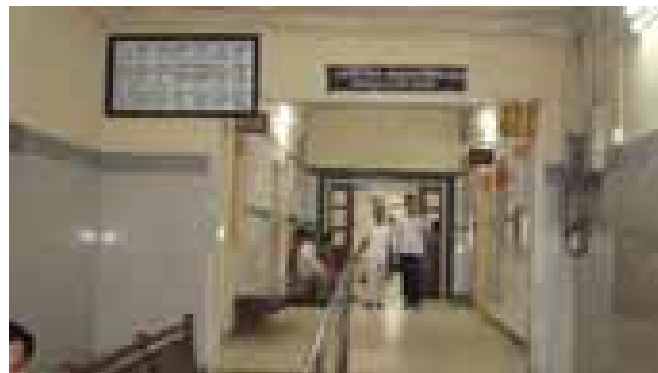
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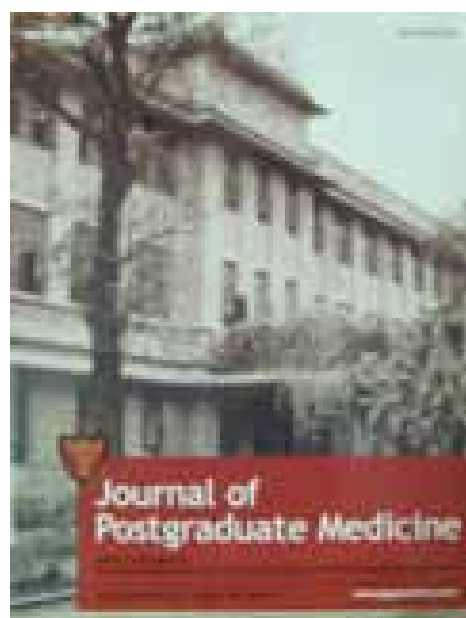
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