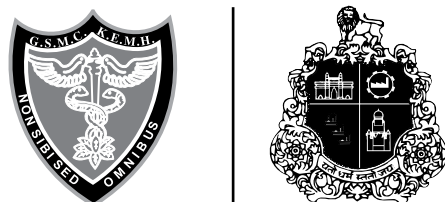


ANNUAL REPORT 2009

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



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

ANNUAL REPORT
2009

Concept (Front & Back cover)

Dr. Sanjay Oak

Director -Medical Education and Major Hospitals
Professor of Pediatric Surgery

Publisher

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

Smt. Shraddha Jadhav
Mayor

Smt. Shailaja Girkar
Deputy Mayor

Shri Sunil Prabhu
Leader of the House

Shri Rajhans Singh
Leader of the Opposition

Shri Ravindra Waikar
Chairman-Standing Committee

Smt. Prakash Phatarpekar
Chairman-Public Health Committee

Smt. Yogita Singh
Chairman-Works Committee (City)

Shri S. S. Shinde
Joint Municipal Commissioner (Elections)

Shri Swadheen Kshatriya
Municipal Commissioner

Shri R.A. Rajeev
Additional Municipal Commissioner (City)

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

Shri Anil Diggikar
Additional Municipal Commissioner (Projects)

Shri Aashish Kumar Singh
Additional Municipal Commissioner
(Eastern Suburbs)

Shri Rajendra Vale
Joint Municipal Commissioner (Estate)

Shri Niyaz Ahmed Vanu
Chairperson - Ward Committee



The twin institutes of the Seth GS Medical College and KEM Hospital were established in 1926 with a nationalistic spirit to cater to the “health care needs of the northern parts of the island”. This annual report chronicles the several achievements in the last year adding to their glorious legacy spanning over 80 years. New instruments were purchased through funds from the Municipal Corporation and munificent donations of individuals and trusts - a new automated biochemistry analyzer was commissioned for the emergency services. A fully automated system for blood grouping and cross matching in the department of transfusion medicine and a brand new mobile cath lab for cardiology and several VELA ventilators markedly improved the quality and quantum of patient care. A molecular diagnosis laboratory has been set up for HIV and will soon add tuberculosis testing.

In the patient care front, a maxillofacial clinic, pediatric neurology clinic and laproscopic donor nephrectomy boosted the existing services. A learning disability clinic will start this year. Several staff members have been trained for a liver transplant program. The institution also rose to the challenge of swine flu with a 24 hours toll free help line and H1N1 isolation and treatment ward. Some other significant achievements have been the award of 22 fellowships in various disciplines under the aegis of the Maharashtra University of Health Sciences - Cardiac and Pediatric Anesthesia, Neonatology, Dermatology, Clinical Pharmacology, Pediatrics and Interventional Radiology to name a few as well as international accreditation for the institute's ethics committees. With over 300 publications, the institute is also at the forefront of research. The undergraduate students are not far behind with several ICMR short term studentships, Sir Ratan Tata scholarships and KVPY awards from the Department of Science and Technology.

Twenty-two days into the new year and we are already witness to challenges that lie ahead of us. The foundation day mini marathon and other events as part of the celebrations have attempted to raise awareness about the issues that surround us - water scarcity and conservation, global warming, the burden of education and rising suicide rates, and assault on doctors among others. Where do we go from here?

On 15th January 2009, Chesley Sullenberger, a former fighter pilot with over 19,000 hours of flying experience landed a US airways aircraft into an icy Hudson river after multiple bird strikes a few minutes after take off. While boats rescued the passengers, Sullenberger walked through the aircraft twice to make sure that there was no one on board before being the last to be rescued. Later, at a commemoration ceremony, he said, “I was trained for this; I just did my job”. Closer home, Dr. Binayak Sen, a pediatrician from the Christian Medical College, Vellore chose to work for the underprivileged in the mid 70's immediately after his graduation; something often dodged by medical graduates today who prefer to pay their way out. Released from prison this year after a two year incarceration, he hopes to “get on with his work”.

Each year, more than 10 lakh patients walk through the portals of these twin institutes that act as a beacon of hope for the down trodden and underprivileged. At this foundation day, we pledge that we do our work in the way that we best can, so that these institutions resonate with the Latin maxim - Non Sibi Sed Omnibus - not for self but for all”.

Sanjay Oak

Director - Medical Education and Major Hospitals

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• **Community Care**

Dr. Raakhi Tripathi

• **Donations and Grants**

Dr. Sunil Karande

• **Education**

Dr. Sandeep Bavdekar

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• **Looking Ahead**

Dr. Padmaja Marathe

• **Patient Care**

Dr. Sandeep Bavdekar

• **Photographs**

Dr. Lopa Mehta
Dr. Ravi Ramakantan

• **Publications**

Dr. Gita Nataraj

• **Research & Collaborations**

Dr. Nithya Gogtay

• **Support Services**

Dr. Nithya Gogtay

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Editor's Note . . .



As we leave behind 2009 and prepare to embark upon another journey and look forward to another foundation day, it is again time to take stock and look at the year that was - what did we do, what did we achieve, where can we improve and where should we be going from here. This annual report in its individual chapters looks at the work, the teaching, publications, acquisitions, awards and much more. While the general format of the report has remained the same, it has nonetheless chronicled the numerous changes, both minor and major that have taken place in the last 12 months.

The experience of putting this document together has been both humbling and enlightening. A huge thank you is due to Dr. Sanjay Oak, Director - Medical Education and Major Hospitals for his renewed faith in me, his vision, patience and tenacity of purpose that has shaped this annual report. None of this would have been possible if not for the team that helped put this document together. My sincere thanks are due to chapter editors - Sandeep Bavdekar, Gita Nataraj, Sunil Karande, Chetan Kantharia, Padmaja Marathe and Raakhi Tripathi for their tremendous efforts at compilation and making the deadline. I am grateful to all heads of departments and staff members for sending the information. My thanks are also due to my head of department Dr. Urmila Thatte for her inputs throughout the making of the report. I owe a debt of gratitude to my students - Shraddha, Namrata and Kannan for putting in hours beyond the call of duty and their relentless efforts of follow up. Lastly, thanks are also due to Kalpesh and Lakshmesh of Urvi compugraphics for their meticulous formatting and cover design and Dr. Lopa Mehta for painstaking editing.

While the compilation has been done over a month and with utmost care, its sheer magnitude and diversity may have led to inadvertent errors and omissions and I request the staff members to bear with me.

Efforts have gone into making this 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 across and we look ahead to 2010 with new hope and zest.

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

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 2009 |
| Bed Strength | 1,800 |
| Total No. of Admissions | 86,574 |
| Average daily admission | 237 |
| OPD Total attendance | 5,77,868 |
| Average daily OPD attendance | 1,920 |
| Total OPD attendance (Old Patients) | 10,12,723 |
| Total No. of Surgeries | 55,622 |
| Major | 25,531 |
| Minor | 30,091 |
| Endoscopies | 7,044 |
| Deaths | 6,866 |
| Death Rate | 7.93% |
| Casualty attendance | 1,99,231 |
| Medico Legal Cases | 31,026 |
| In-patients | 5,63,167 |
| Average Bed Occupancy | 1,543 (86%) |
| Total Number of Deliveries | 7,102 |

Human Resources

K.E.M. Hospital Staff

Medical Staff

| | |
|-------------------|-----|
| 1. Dean | 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

850

Student Nurses

265

Labour Staff

Permanent

1457

Badlee

300

Seth G.S. Medical College

Full Time Teaching Staff

| | |
|-------------------------|-----|
| 1. Professor | 81 |
| 2. Associate Professors | 132 |
| 3. Lecturers / Tutors | 234 |

Honorary Teaching Staff

16

Superior Staff

| | |
|---------------------------|-----|
| 1. Head Clerks | 8 |
| 2. Clerical Staff & R.A. | 101 |
| 3. Scientific Officers | 5 |
| 4. Laboratory Technicians | 42 |
| 5. Laboratory Assistants | 33 |
| 6. Laboratory Attendants | 30 |
| 7. Labour Staff | 181 |

Undergraduate Medical Students

1013

School of Physio & Occupational Therapy

| | |
|-----------|-----|
| 1. BSc OT | 149 |
| 2. BSc PT | 142 |

Post Graduation

| | |
|--------------------|-----|
| 1. MD/MS | 398 |
| 2. DM/MCh | 84 |
| 3. MSc by paper | 24 |
| 4. MSc by Research | 19 |
| 5. MSc PT | 15 |
| 6. MSc OT | 20 |
| 7. PhD | 17 |

Medical Diploma

| | |
|---------|----|
| 1. DA | 35 |
| 2. DVD | 5 |
| 3. DPH | 4 |
| 4. DMRD | 12 |
| 5. DMLT | 10 |
| 6. DGO | 26 |
| 7. DCH | 26 |
| 8. DD | 2 |
| 9. DO | 10 |

B u d g e t

Year 2008 - 2009

Seth GS Medical College

| | Account Head | (In Thousands) |
|----|---|----------------|
| | Establishment Expenses | |
| 1 | Basic Pay (Supervisory and Subordinates) | 110780 |
| 2 | Incentive Bonus (Supervisory and Subordinate) | 898 |
| 3 | Basic Pay (Labour, Technical & Others) | 19517 |
| 4 | Incentive Bonus (Labour, Technical & Others) | 2253 |
| 5 | Dearness Allowance (Supervisory and Subordinate) | 49850 |
| 6 | House Rent Allowance (Supervisory and Subordinate) | 29301 |
| 7 | Conveyance Allowance (Supervisory and Subordinate) | 3 |
| 8 | Leave Travel Assistance (Supervisory and Subordinate) | 2403 |
| 9 | Transport Subsidy Allowance (Supervisory and Subordinate) | 3663 |
| 10 | Municipal Medical Allowance (Supervisory and Subordinate) | 240 |
| 11 | Other Allowances (Supervisory and Subordinate) | 18241 |
| 12 | Dearness Allowance (Labour, Technical & Others) | 18785 |
| 13 | House Rent Allowance (Labour, Technical & Others) | 2928 |
| 14 | Conveyance Allowance (Labour, Technical & Others) | 48 |
| 15 | Leave Travel Assistance (Labour, Technical & Others) | 963 |
| 16 | Transport Subsidy Allowance (Labour, Technical & Others) | 296 |
| 17 | Municipal Medical Allowance (Labour, Technical & Others) | 617 |
| 18 | Other Allowances (Labour, Technical & Others) | 4781 |
| 19 | Leave Encashment | 3835 |
| 20 | Stipend of Interns | 840 |
| | Total Establishment Expenses | 277205 |
| | | |
| | Administrative Expenses | |
| 1 | Property Taxes / Municipal Taxes | 685 |
| 2 | Office Electricity Expenses | 7500 |
| 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 | 1500 |
| 12 | Ceremony / Events Expenses | 50 |
| 13 | Miscellaneous Administrative Expenses | 255 |
| | Total Administrative Expenses | 20190 |
| | | |
| | Operation and Maintenance Expenses | |

| | Account Head | (In Thousands) |
|----|---|-----------------------|
| 1 | Clothing | 31 |
| 2 | Radio Isotope Materials | 4000 |
| 3 | Laboratory equipments | 150 |
| 4 | Diet and Nutrition Supplements | 200 |
| 5 | Linen | 50 |
| 6 | Chemicals | 300 |
| 7 | Instruments | 2800 |
| 8 | Equipment | 350 |
| 9 | Ayurvedic Medicines | 200 |
| 10 | General Civil Repairs - Hospitals / Health | 3997 |
| 11 | Consumption of Stores / Spares - Hospitals / Health | 100 |
| 12 | General Civil Repairs - Staff Quarters | 7000 |
| | Total Operation and Maintenance Expenses | 19178 |

K.E.M. Hospital

| | Total |
|-----------------------|-------------------|
| Expenditure | |
| Establishment | 632532747 |
| Contingencies | 22073080 |
| Drugs & Medicine | 177420757 |
| Diet | 11565189 |
| Repairs & Maintenance | 201246553 |
| Stores | 46373367 |
| Total | 1091211693 |

Achievements and Highlights

Achievements and Highlights

Anatomy

Seventh edition of handbook published

Dr. G. M. Kurulkar oration organized on 23rd January 2009 and delivered by Dr. P. L. Jahagirdar

E-quiz using the “e-dentity” (a unique e-mail identity) has been initiated as part of applied learning. Weekly quizzes are posted to them encouraging them to apply their anatomical knowledge to solve these queries.

100% pass percentage in MD Anatomy.

New divisions of museum namely “Cross- sectional Anatomy”, “Imaging Anatomy”, “Neuroanatomy” and “Developmental Anatomy” are being added and the museum has been relocated with priceless collections of human and comparative anatomical specimens

Anesthesia

Several staff members underwent training for liver transplant at the Sir Gangaram hospital, New Delhi.

16 courses of 20 students each were conducted for cardio pulmonary resuscitation and advanced cardiac life support.

A one year fellowship course under the aegis of MUHS in Cardiac and Neuro anesthesia was initiated.

Several workshops and academic sessions on safety in the OT, Awake craniotomy, newer machines, pain update, anesthesia protocols, nerve blocks through ultrasound windows and methods of sterilization were conducted.

Biochemistry

A new automated biochemical analyzer was commissioned in the emergency division

The 5th certificate course in Good Clinical Lab Practices was conducted in collaboration with the National Institute for Research in Reproductive Health and IIT Mumbai.

Cardiology

The ICCU is now well equipped with latest ventilators, pulse oximeters, rhythm monitors and infusion pumps.

A new mobile cath lab has been commissioned.

A new State of the art, first of its kind in Western India Color Doppler machine with 3D echo and TEE probe facility has been installed recently. This enables diagnosis of complex congenital heart defects

A new pediatric TEE probe permits closure of ASDs in children under 20 kilograms

The number of angioplasties and complex pediatric interventions including transcatheter closure of congenital heart defects in the cath Lab are increasing. Primary angioplasties are being performed in the cath lab.

In addition to PDA, ASD & VSD even rare defects like ruptured sinus of Valsalva aneurysm, coronary artery fistula and aorto pulmonary window have been successfully closed without surgery.

Permanent pacemakers have been implanted safely even in octogenarians, and some patients have benefited from implantation of biventricular pacemaker-ICD Device.

Chest Medicine

State of the art VELA ventilator with capnograph acquired for the ICU to provide non invasive ventilation at higher oxygen requirements for patients with ARDS

Regular sessions of yoga and relaxation techniques have been incorporated as part of asthma management in collaboration with the Physiotherapy department

Industry funded and investigator initiated studies in asthma and diabetes mellitus were carried out

Clinical Pharmacology

- The LCMS-MS and flowcytometer were obtained and installed this year. This facility will be used for the monitoring of levels of immunosuppressive drugs in the transplant programme of the hospital and diagnosis of hematological malignancies.
- An electronic database was created to keep records of all patients coming to TDM OPD.
- ADR reporting form has been uploaded on the intranet with the help of Medicines Monitoring Committee and Department of Pharmacy to encourage reporting.

- Facility of Wifi enabled computer stations for hands on training on clinical research for participants coming from different institutes and background was established.

Department of Biotechnology- Clinical Research Training Centre (DBT-CRTC)



Phase I Unit



- The Dept. was recognized as a Clinical Research Training Centre as part of a national effort in developing capacity among medical postgraduates in clinical research.
- Dose Escalation study was started in healthy volunteers to evaluate the safety and Pharmacokinetics of a Human Rabies Immuno Globulin Administered in conjunction with Rabies Vaccine.

Dentistry

Facility for rotatory endodontics has been started

Dermatology

Dr Uday Khopkar has been appointed as member of editorial advisory board for the Asian edition of Lever's Histopathology of skin, the first honor for any Indian.

The department has pioneered the branch of dermatopathology.

Endocrinology

A lecture on the vegan diet by international speaker Dr Neal Barnard was organized on 30th Nov 2009

Gastroenterology

Ventilator was procured through the MCGM

Started Colonic manometry (The second institute in the country to start this)

Liver OPD is run every Monday morning

Hematology

Chemotherapy service both indoor and outpatient for those with hematological malignancies

Comprehensive Hemophilia Care Center with an OPD every Thursday in collaboration with the Mumbai Chapter of Hemophilia Federation of India.

Day care for thalassemia major for blood transfusions

Medicine (including EMS Medicine)

Started New Isolation Cum Intensive Care Ward for H1N1 Influenza patients.

Microbiology

The renovated molecular diagnostic laboratory was sanctioned. The facility boasts of conventional and Real Time PCR setup. Currently, HIV viral load testing as a part of routine testing on a charge of Rs 2000 is being carried out. Shortly, TB diagnosis and MRSA detection will be added to the portfolio.

Rapid Detection Test (RDT) for Malaria antigen has been made available.

Biological indicators have been supplied for validation of sterilizers.

Bacteriology requisition forms have been revised to aid antimicrobial policy.

Collaboration with the Queensland institute of Medical Research, Brisbane on “Molecular characterization of Group A and G streptococcus”

Neonatology

Initiation of high frequency ventilation in neonates

MUHS fellowship in neonatology started

Lecture series in research methodology conducted

Nephrology

Hemodialysis for HIV positive patients (only centre in the city)

500 live related and cadaver transplants.

100% patient and graft survival achieved

100% result of DM Nephrology (1st rank Dr Ritesh Vernekar)

Neurology

Only centre in Maharashtra to start corticography and cortical dysphasia surgery in adults

Acquisition of a new video EEG machine which has cut down the waiting time for video EEG

Started pediatric neurology OPD every Wednesday.

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

Nursing

Implemented 3 ½ years new syllabus for Diploma in General Nursing and Midwifery including 6 months internship

Computer education is included in this syllabus in 2nd year.

Pediatric nursing is included as a parallel subject with Obstetrics & Gynaecology,

Students also do a small research project each year

Obstetrics and Gynecology

Adoption of POP –TUBE system and its modification for pelvic organ prolapsed (Dr SV Parulekar)

Use of endometrial thermal ballon ablation for the control of abnormal uterine bleeding

Development of modules for training on cervical dilation and station of the presenting part in labor (beta testing ongoing)

Occupational therapy

Symposium on management of mutilating injuries of the hand organized

Orthopedics

Development of algorithms and protocols for the subspeciality of spinal surgery, arthroplasty and arthroscopy

Several workshops on spine and arthroscopy conducted

Pathology

Upgradation and Automation of the Surgical Pathology, Haematology, Neuropathology, CVTC Departments for better services and timely delivery of reports.

Pediatric Surgery

Dr. Sanjay Oak awarded the degree of the Fellowship of the Royal College of Surgeons (Edinburgh)

Fellowship started in pediatric minimal access surgery

Pediatrics

Two VELA ventilators were received from the Municipal Corporation.

A learning disabilities clinic has received approval and will be started

Pediatric DOTS initiated

Supervising and managing pediatric HIV/AIDS patients in Pediatric Anti Retrovirus Therapy clinic. Sixty nine new cases enrolled.

Management of patients with Gaucher's disease through a charitable access program

Pharmacology

"A Basic course in Experimental & Clinical Research"- Fourth Summer Training Programme for undergraduate students of science faculty (Biotechnology, Microbiology, Life sciences, Zoology & Botany)

Biochemistry laboratory of Ayurveda Research Centre has been awarded a certificate for the period July 2009 to June 2009 for its quality maintenance by External Quality Assurance services of Bio-Rad Laboratories, USA as "Outstanding Quality".

This is the 5th consecutive year for achieving the same grade.

An "Automated Urine Chemistry Analyzer" was procured to aid research projects.

Physiotherapy

Management of premature babies on the ventilator

CME on gait analysis and backache

Plastic Surgery

Started maxillofacial clinic, which runs every Monday

Use of pre operative splints for contractures

PSM

Recognition of MD by the Medical Council of India

Managing the swine flu toll free helpline round the clock. 9300 queries from the general public answered.

Radiology

Digital Radiography

Surgical gastroenterology

DNB recognition

Several workshops and conferences

To start the liver transplant program this year

Transfusion Medicine

Started on -1-1-2009.

Diamed Technotwin Station – Fully Automated Walk away System for Blood Grouping and Cross matching

Urology

Only department in 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.

Procured laproscopic trainer for postgraduate training

Over 16,500 patients were treated on the all urology OPD's during the year and over 1500 operations were performed including kidney transplantations.

An instrument called 'Single Step Access Sheath With Safety Trocar Dilation' has been acquired where lithotripsy for bladder stones can be done without 'C' arm or second assistant.

Awards and Honors

Awards and Honors

International Awards

1. Ayurveda Research Centre has been awarded certificate of "Outstanding quality" for the period June 2008- July 2009 under External Quality Assurance Services by Bio –Rad Laboratories, USA.
2. Dr. Ruchi N. Nanavati Professor and Head Department of Neonatology recognized as Neonatal Resuscitation Program Regional trainer for "First Golden Minute project of Indian Academy of Pediatrics, American Academy of Pediatrics" Latter Day Saint Charities, USA.
3. Dr Pravin of Department of Medical Gastroenterology received Young Investigator award at Asian Neuromotility Meet, Seoul, Korea April 2009
4. Dr. P. Iyer from Department of Anatomy Awarded International Fellowship of Foundation for Advancement of International Medical Education and Research (FAIMER).
5. Dr Avinash Supe from Department of Surgical Gastroenterology has been awarded with of IFME fellowship -USA
6. Dr Atul Goel Professor and Head Department of Neurosurgery: Miembro Honorario: La Academia Mexicana de Neurologia, A.C., Puerto Vallarta, Jalisco a 27 de octubre de 2008, executive committee member of Asia-Oceania Skull Base surgery society. 2008, recognized by WFNS education committee as Class A centre for training in skull base surgery 2008-2009.
7. Dr. Sunil Karande Professor Department of Pediatrics Included as a subject of biographical record in "Dictionary of International Biography", 35th edition, 2009 by International Biographical Centre, Cambridge, England.
8. Dr Milind S. Tullu: Associate Professor Department of Pediatrics "Leading Health Professionals of the World 2007 & 2009" (International Bibliographical Centre, England).
9. Dr Pratiksha Kapase of Pharmacology & Ayurveda Research Centre won the OD Gulati Gold Medal Award for research in the area of Cardiovascular Pharmacology at the International Conference on Integrative & Personalized Medicine and 42nd Annual Conference of Indian Pharmacological Society organized by National Research Institute of Ayurveda for Drug Development and Indian Pharmacological Society, West Bengal Branch at Kolkata 10th to 12th December 2009, for her paper entitled "Effect of Indian Medicinal Plants on angiogenesis using chorioallantoic membrane (CAM) assay. Dr Pratiksha Kapase, Kadakia M., Mungekar S., Dr Sandhya Kamat, Dr NN Rege."
10. Dr. Shankar S. of Pharmacology & Ayurveda Research Centre received Dr A.S. Nanivadekar prize: Joint 3rd position for best paper: "Evaluation of Indian Medicinal Plants against infection in normal and myelosuppressed animals: An Experimental Study" Shankar S, Dr. Kamat SK, Rege NN- at III International Conference of American College of Clinical Pharmacology held at Mumbai, September 2009.
11. Bhavana Mhatre from Department of Physiotherapy Invited to participate in debate at World Confederation of Physiotherapist- Asia West Pacific IAP 2009 congress - Evidence based Versus Evidence Burden
12. Mariya Jiandani from Department of Physiotherapy: Lead speaker in cardiopulmonary session at world confederation of physiotherapist- Asia West Pacific IAP 2009 congress-Scope of physiotherapy in heart failure.
13. Dr. Jignesh Gandhi, Associate Professor in Gen Surgery completed his fellowship in liver transplant surgery at Royalfree hospital London. He is also recipient of Dr. P.N. Berry Fellowship for training in UK
14. Mr. Balkrishna Swar Won 1st joint prize (Dr U K Sheth) for poster presentation on "Pharmacokinetic-Pharmacodynamic (PK-PD) modelling for predicting dose for individualization of warfarin therapy in patients on long term anticoagulation" at 3rd International Conference on " Drug Development and Discovery – Public private partnership" .
15. Dr. Priti D'costa Won 1st joint prize (Dr U K Sheth) for poster presentation on "Beginnings in Pharmacovigilance: A study of cutaneous ADR in a tertiary care Hospital" at 3rd International Conference on " Drug Development and Discovery – Public private partnership"
16. Dr. S. Kannan Won 2st joint prize (Dr U K Sheth) for poster presentation on "A study of warning letters issued to clinical investigators and institutional review boards by the united states food and drug administration" at 3rd International Conference on " Drug Development and Discovery – Public private partnership"
17. Dr. Santosh Taur Won 2nd joint prize (Dr S. Karandikar) for paper presentation on "A comparative evaluation of safety and efficacy fixed dose combination of itopride plus rabeprazole versus mosapride plus pantoprazole in patients with gastroesophageal reflux disease" at 3rd International Conference on "Drug Development and Discovery – Public private partnership" organized by South Asian Chapter of American College of Clinical Pharmacology (ACCP) between 3rd and 4th October 2009.
18. Ms. Akanksha Thakkar Won 2nd joint prize (Dr S. Karandikar) for paper presentation on "Is the genotyping of mutant

alleles CYP2C9*2 and CYP2C9*3 cost-effective for the prediction of phenytoin toxicity in Indian epileptic patients?" at 3rd International Conference on "Drug Development and Discovery – Public private partnership" organized by South Asian Chapter of American College of Clinical Pharmacology (ACCP) between 3rd and 4th October 2009.

19. Mr. Ninad Maniar won 1st prize (Dr S. Karandikar) for paper presentation on "Causality assessment of adverse events in the medical intensive care unit of a tertiary referral centre: a comparison of two scales" at 3rd International Conference on "Drug Development and Discovery – Public private partnership" organized by South Asian Chapter of American College of Clinical Pharmacology (ACCP) between 3rd and 4th October 2009.
20. Dr. Abbas Rupawala won 2nd prize (Dr S. Karandikar) for paper presentation on "Evaluation of the activity of Cytochrome P450 2C9 (CYP2C9) activity in healthy, adult Western Indian population by phenotyping and genotyping" at 3rd International Conference on "Drug Development and Discovery – Public private partnership" organized by South Asian Chapter of American College of Clinical Pharmacology (ACCP) between 3rd and 4th October 2009.
21. Dr. Arpit Sharma, Lecturer, ENT awarded Indian Society of Otolaryngology Pr Patrice tran.Ba Huy Foreign Travel Fellowship for year 2008-09 for observing Lateral Skull base Surgery at Hospital Lariboisiere at Paris France for duration of two weeks in Sept. 2009

National Awards

1. M. Sc. student, Mr. Abhay Shrivastav of Department of Biochemistry –was selected for all India Competition organized by ABLE India and Department of Science and Technology Government of India for Biotechnology project on "Omega – 3 fatty acid production" and was ranked in the first 15 places
2. Dr Anurag Ranjan Lila of Department of Endocrinology awarded 2nd Prize in "Dr. Maitreyi Ray Chaudhuri Memorial Competitive Session on Diabetes" organized by Diabetes association of India, West Bengal Lecture on "Should Glycemic control in type 2 diabetes be relaxed".
3. Dr Anurag Ranjan Lila of Department of Endocrinology awarded 3rd position in Torrent young scholar award programme, Endocrinology 2009-2010, held at Ahmedabad, Awarded a scholarship of Rs. 25, 000/- Debate topic "Drug vs Exercise in Prediabetes"
4. Dr Vijaya Sarathi of Department of Endocrinology awarded 1st Prize at 1st Biennial Meeting of ISPAE Pediatric Endocrine Training Program at New Delhi.
5. Dr Jai representing Department of Surgical Gastroenterology received first prize for paper presentation at IHPBA Bangalore conference.
6. Dr Raunak Parikh of Department of Microbiology won the 1st prize in the oral paper section at the National Conference of Hospital Infection Society of India, 2009 for the paper titled "Assessment of infection control measures for prevention of nosocomial transmission of Tuberculosis"
7. Dr. Ritesh Vernekar awarded 1st Best platform presentation for his paper "Assesment of RIFLE criteria in hospitalized patient with ARF" at Annual Conference of Indian Society of Nephrology – January 2009
8. Mrs. Zarine D. Ferzandi of Occupational therapy Felicitated by All India Institute of Physical medicine & Rehabilitation for rehabilitative services
9. Ms. Shweta G. Joijode of Occupational therapy awarded Youth Talent Award at EMCON-09
10. Dr. Sunil Karande, Professor of Pediatrics Elected as a "Fellow of Indian Academy of Pediatrics"
11. Ms Reshma Parekar of Pharmacology & Ayurveda Research Centre was awarded a cash prize as runner-up in the Guffic Award session for research on Indigenous Agents International Conference on Integrative & Personalized Medicine and 42nd Annual Conference of Indian Pharmacological Society organized by National Research Institute of Ayurveda for Drug Development and Indian Pharmacological Society, West Bengal Branch at Kolkata 10th to 12th December 2009, for her paper entitled, "Anti-inflammatory, Analgesic and Antiplatelet Effects of Dashmula: An Exploratory study. Reshma Parekar, Dr Padmaja Marathe, Dr NN Rege
12. Radhika Parikh –(III MBBS)representing PSM Received first prize for STS (ICMR) research paper "A study of determinants of immunization coverage among 12-23 month old children in a health post area of Mumbai city by using lot quality assurance sampling technique". at National seminar.
13. Dr. Yogita B from PSM received Best paper in "Community work" at 36th National conference of IAPSM to - for paper presentation on "A study of health care utilization & expenditure in tribal community of Thane district".
14. SR Parkar, S Adarkar, S Batra Seetha laxmi, NN Nair, SH Moghe, from department of psychiatry won Dr. AV Shah – best paper award in Indian psychiatric society – west zone, for the original research paper titled "Are the effects of cannabis dependence on glucose metabolism similar to schizophrenia ? an fdg pet understanding"
15. Dr. Vikash Kumar, from Department of Urology was awarded CKP menon prize for Best paper presentation

USICON,2009, Indore.

16. Dr.Aniruddha Gokhale, from Department of Urology won Eagle Travelling Fellowship & 1st prize in urology quiz – WZUSICON, 2009, Khajuraho
17. Dr. Venkateshwaran N (Senior resident) received the Microsurgery fellowship for junior Plastic Surgeons at APSICON 2008 (National Conference of the Association of Plastic Surgeons of India) held at Mahabalipuram

State Awards

1. Dr.Jayashree Sharma: Professor and Head received 'Rotary Club of Bombay Uptown, Wadala' Vocational Service Award
2. Dr Rahul K Gupta of Pediatric Surgery received Ali Irani Award 3RD Prize in State MCIAPSCON
3. Dr V Kini of Department of Anesthesia awarded 1st prize for Comparison of efficacy of standard and English macintosh laryngoscope blade at Wisacon 2009
4. Dr V Kini of Department of Anesthesia awarded 1st prize for Case report on Anaesthetic management of patient posted for hip hemiarthroplasty with IHD, bilateral pleural effusion and prostate malignancy with skeletal metastasis using lumbar plexus block at WAD 2009
5. Dr Monal of Department of Anesthesia awarded 1st Prize Case Report on Subarachnoid block administered in prone position in a case of giant gluteal neurofibroma
6. Dr Shashidhar of Department of Anesthesia awarded 1st prize on case report on Totally awake fiberoptic intubation: Comparison of northpole tube and pvc tube
7. Dr A Bajaj of Department of Anesthesia awarded 1st prize for case report Anaesthesia management for postembolectomy above knee amputation in patient with severe cardiorespiratory morbidity
8. Dr. Vaibhav Keskar of Pediatrics awarded 1st prize (Gold Medal) for the oral paper entitled 'Serum lipids in dengue infection' at MAHAPEDICON 09
9. Dr Hemant Bhanarkar, Department of Surgical Gastroenterology received Second prize for poster presentation at Masicon2009, Aurangabad
10. Dr Kashmira Limaye of Department of Microbiology won the 1st prize in the oral paper section at the Maharashtra Chapter Conference of the IAMM for the paper titled "Microscopic observation drug susceptibility (MODS) assay for diagnosis and drug susceptibility testing of M. tuberculosis – Its role in resource poor setting."
11. Dr Pallavi Surase of Department of Microbiology won the 1st prize in the poster section at the Maharashtra Chapter Conference of the IAMM for the paper titled "Bacteriology of SSI in Different Specialities".
12. Juhi Gupta of Department of Microbiology was awarded the K.V.P.Y scholarship for her work on 'Evaluation of Biofilm Forming Ability amongst Clinical Isolates of *Pseudomonas aeruginosa* and Staphylococcus Spp and In Vitro Activity of Cymbopogon Citratus And Cyzygium aromaticum Oils – A pilot study' under Gita Nataraj.
13. Dr Atul Goel Professor and Head Department of Neurosurgery: Chairman of the meeting, Glioma challenge. Maharashtra chapter of Neurosciences, Nagpur, 29th May 2009.
14. Dr. P. K. Shah Professor of Obstetrics and Gynecology received MOGS - Dr. Sarojben Desai excellence award on 06.03.09, Mumbai.
15. Dr. H. K. Chaudhari Associate Professor of Obstetrics and Gynaecology Won first prize for best poster presentation in March 2009 MOGS (Mumbai Obstetrics and gynaecological society) conference on Perinatal morbidity & mortality in MSAF.
16. M. Muranjan of Pediatrics awarded 1st PRIZE at MAHAPEDICON 09 for Mystery of the undiagnosed nodules Genetics to the rescue–
17. A. Landge of Pediatrics awarded 2nd prize for Analytical study of Cerebral Malaria in a tertiary care Paediatric Intensive Care Unit. at MAHAPEDICON 09
18. Dr. Sonal Bhatia of Pediatrics: Awarded a Medal at the 20th Annual CME of Athavale Research Foundation- "Reflections 2009" on 20th September 2009 for standing First in LTMMC at the MD Pediatrics examination held in May 2009.
19. Amita Mehta of Physiotherapy Invited to speak on "Fitness testing & training for health promotion at Somaiya College of Physiotherapy
20. Chhaya Verma of Physiotherapy Invited to speak on "Physiotherapy management of complex regional pain syndrome in hand at meeting of Interventional Pain Consultants Anesthesiologists, Mumbai
21. Jaimala Shetye of Physiotherapy Invited for a talk on Women's Health by Shree Hitwadhini Industrial Society 18th March 2009
22. Dr. Pramod Kamble Lecturer from Department of Gen Surgery has been felicitated by Municipal commissioner of Mumbai for special work & service during 26/11

23. Dr Aparna Deshpande, Professor in Gen Surgery made a Presentation on minimal invasive approach for infected pancreatic necrosis at MASICON-08 and a Poster presentation on "IVC aneurysm" at MASICON-08
24. Dr.Aniruddha Gokhale from Department of Urology received 2nd prize in paper presentation in podium -, MUS Annual meeting 2009, Alibaug.

College Awards

1. "BEST Resident" award was given to Dr.Rahul Gupta, of Department of Cardiology DM(Cardiology) for the year 2009.
2. Dr. Sunil Dharmani awarded 3rd Best poster on "Progression factors in C.K.D. at Annual poster competition organized by staff & Research Society Jan. 2009.
3. Miss. Shinde Poonam Nagesh of Maharashtra Nursing Council Exam for Revised General Nursing & Midwifery Diploma 3 ½ years course :-Mrs. Sushila U. Sheth Prize for Final year Nursing Student scoring highest marks 1336/1600 Institutional Honors
4. Patil Pallavi Appaso First year G.N.M. Exam – June 2008 Student Nurse stood first by securing 406/500 Marks at institute level.
5. Rahul Kumar Gupta of Pediatric Surgery received 2nd Prize in Staff society Presentation
6. Abhang Swati Jalinder 2nd year G.N.M. Exam – June 2008. Student Nurse –stood first at institute level by securing – 412/500 marks.
7. Shinde Poonam Nagesh 3rd year G.N.M. Exam July 2008, Student Nurse –stood 1st at Institute level, by securing 513/600 marks.
8. Student Nurse - Shinde Poonam Nagesh Interns Nursing Exam January 2008. Final Year Nursing Student Marks 1336/1600
9. Mr. Stephen B. A. Sams, Professor and Head of Occupational therapy was felicitated for Dedicated Contribution to Seth Dhurmal Bajaj Orthopedic Centre & Research Institute, Seth G S Medical College & KEM Hospital
10. Mrs. Snehal P. Desai of Occupational therapy Warden Ladies Hostel, Seth GSMC & KEMH.
11. Mrs. Snehal P. Desai of Occupational therapy -Resource Person "Management of mutilated hand injuries ", at 59th Foundation Day of OT School & Center, Seth GSMC & KEMH.
12. Mrs. Rupali Borkar of Occupational therapy Resource Person "Management of mutilated hand injuries ", at 59th Foundation Day of OT School & Center, Seth GSMC & KEMH.
13. Lysosomal Storage Disorder: a diagnostic odyssey ! S Agarwal, M. N. Muranjan, Keya.Lahiri from Pediatrics: Best paper award in the staff society meeting (Dr. Amrut Modi Award, G.S.M.C. , K. E. M. Hospital, Mumbai, 27.01.2009)
14. Sonal Bhatia from Pediatrics: Presented "Idiopathic Pulmonary Hemosiderosis: Approach to Diagnosis and Management" at the Inter-Collegiate Pediatrics Clinical Meeting on 18th November 2009 at The Department of Pediatrics, Seth G.S. Medical College & KEM Hospital
15. Jyostna Thosarf from Department of Physiotherapy Invited as a guest speaker by 'Woman Development Cell' of K.E.M. Hospital to deliver lecture "Care & Exercises for early at home.
16. Mariya Jiandani from Department of Physiotherapy Invited to deliver lecture on "Chest Physical Therapy at workshop conducted by SNDT college & Nursing
17. Mariya Jiandani from Department of Physiotherapy Invited to speak on "Fitness testing & training for health promotion at Somaiya College of Physiotherapy
18. Dr. Lalita Nikam from Department of Physiology was awarded cash prize of 5000 Rs. for standing 1st in the university exam of M.D. Physiology, amongst the students of GSMC
19. Riddhi Shah from Department of Physiology was awarded scholarship for standing 1st in Physiology in 1st M.B.B.S. exam conducted by university, amongst the students of GSMC

Patient Care

Patient Care

Anatomy

The department contributes indirectly to patient care by providing quality anatomy education to students so that they turn out to be better clinicians.

Anesthesia

Anesthesiology department catered to 43 operation theater tables located in 15 OT complexes. Anesthesia services were given to about 60,000 surgical patients and the department catered to 25,000 Anesthesia OPD patients for pre-operative evaluation. The department has special post-operative pain relief services and anesthesia intensive care unit. Anesthesia services were given for workshops were conducted in the following specialties: AMASICON 2009 (Laparoscopic), Liposuction in plastic Surgery

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: Automated Biochemistry Analyzer

Cardiology

No. of Procedures done in Mobile Cath Lab from 1st September-30th November 2009 : 149

| Types of Procedures | No. of Procedures |
|----------------------|-------------------|
| Coronary Angiography | 149 |

No. of Procedures done in Cath Lab from 1st January 2009 to 30th November 2009: 2219

| Sr. No. | Types of Procedures | No. of Procedures |
|---------|-------------------------------|-------------------|
| 1 | Coronary Angiography | 1330 |
| 2 | Check Angiography | 0025 |
| 3 | Diagnostic Cath | 0102 |
| 4 | BMV | 0189 |
| 5 | BMV failed | 0022 |
| 6 | BPV | 0017 |
| 7 | BAV | 0006 |
| 8 | BTV | 0001 |
| 9 | BAS | 0002 |
| 10 | ASD DC | 0030 |
| 11 | ASD DC Failed | 0003 |
| 12 | PDA Amplatzer Device Closure | 0016 |
| 13 | PDA Cocoon Device Closure | 0001 |
| 14 | PDA TCC | 0009 |
| 15 | RSOV DC | 0002 |
| 16 | AP Window Device closure | 0002 |
| 17 | Coarctoplasty | 0010 |
| 18 | Coarctoplasty stent | 0004 |
| 19 | Coarctoplasty failed | 0001 |
| 20 | PTCA | 0007 |
| 21 | PTCA with stent | 0147 |
| 22 | PTCA Failed | 0011 |
| 23 | PPI Implantation | 0105 |
| 24 | PPI with Coronary Angiography | 0009 |
| 25 | AICD | 0008 |
| 26 | AICD with CAG | 0001 |
| 27 | Pacemaker Explanation | 0009 |

| Sr. No. | Types of Procedures | No. of Procedures |
|---------|--|-------------------|
| 28 | Electrophysiology Study | 0042 |
| 29 | Electrophysiology Study and Radio Frequency Ablation | 0093 |
| 30 | MAPCA coil embolisation | 0001 |
| 31 | Alcohol Septal Ablation (HOCM) | 0003 |
| 32 | Retrieval of central venous catheter from IVC | 0001 |
| 33 | CAG with EPS | 0005 |
| 34 | CAG with EPRFA | 0005 |
| | Total No. of procedures | 2219 |

Table: Utilization of Cardiology Services

| No. | Services | Number |
|-----|--|--------|
| 1 | Number of patients who received care in the Intensive Cardiac Care Unit (ICCU) | 1205 |
| 2 | Number of patients admitted to General Cardiology Ward (Ward 32) | 1421 |
| 3 | Number of Computerized Stress Tests (CST) done | 2071 |
| 4 | Number of patients who availed of color Doppler (CD) facilities | 4822 |
| 5 | Number of ECGs done (Emergency Medical Section) | 74486 |
| 6 | Number of ECGs done (Emergency Medical Section) | 12900 |

Chest Medicine

The total number of admissions for year 2009 is 700. Of these, 178 patients required Intensive Care. The Department of Chest Medicine has outpatients Chest clinics on bi weekly basis. The total number of old patients who attended the outpatient services was 130138, while 5666 new patients attended the clinic. A total of 43787 samples were processed for arterial blood gas (ABG) analysis. The number of patients who underwent various pulmonary testing procedures is provided in the Table below.

Table: Pulmonary Function tests carried out by the Department of Chest Medicine

| Pulmonary Function Tests | |
|--------------------------|------|
| FV Loop | 2150 |
| DLCO | 246 |
| RV/TLC | 130 |
| PEFR | 1445 |
| Bronchoprovocation | 3 |
| ABG Studies | 11 |

*Data for 2009 from 1st Jan 2009 to 30th Nov 2009.

The number of specialized procedures done by the Department is listed below in a Table.

Table : Special Procedures carried out Procedure

| | Number |
|--|--------|
| Bronchoscopy | 116 |
| Pleural tapping | 119 |
| Sleep study | 14 |
| Lymph node fine needle aspiration cytology | 26 |
| Pleural biopsy | 1 |

Asthma Education

The department of chest medicine has an *asthma education programme* for indoor and outdoor patients.



Asthma education

In addition, the EPRC team is also involved in creating asthma awareness and education of school children.

The EPRC team provides a *special service* to the BMC wherein an annual respiratory morbidity survey of BMC employees working in the chlorination department and sewage pumping stations is also conducted. The details of these surveys are published in the Environmental Status Report. The environment pollution research centre conducts regular surveys and health check ups in response to citizen complaints as well.

Special facilities for patients

- An integrated approach to the 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 of the disease.
- We also have the facilities to conduct bronchoscopy when indicated, 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.

New Services Added:

We have also obtained state of the art VELA ventilator with capnostat facility for the intensive care and have been able to provide noninvasive ventilation at higher oxygen requirements for patients of ARDS.

Timings of the ABG lab has been extended by one hour i. e. from 8.00 am – 8.00pm

Mortality rate:

The total number of admissions is 700. 178 patients required Intensive Care. The total number of deaths in 2008 is 27 (till date). The overall mortality rate is 3.8%.

Table: Comparison of mortality rates for the two consecutive years

| | 2009 (till date) | 2008 |
|------------------------------|------------------|------|
| No. of Admissions (total) | 700 | 664 |
| No. of admissions to Ward 32 | 522 | 452 |
| IRCU admissions | 178 | 212 |
| Number of Deaths | 27 | 41 |
| IRCU Mortality rate | 15% | 19% |

*Data for 2009 from 1st Jan to 30th Nov 2009

Hospital Acquired Infection Rate: Nil

Cardio Vascular and Thoracic Surgery

Out-patient Services

Four Outpatient Clinics are conducted every week. New patients as well as follow-up patents 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 15th December 2009, 3256 new cases were evaluated for various Cardiac Thoracic and Vascular ailments.

Operative work:

Total Admissions: 1169

Total Surgeries : 977 (open heart: 661, closed: 208, emergency:108)

Clinical Pharmacology

- Therapeutic drug monitoring (TDM) services

| Sr. No. | Therapeutic drug monitoring (TDM) services | Total No. of Patients | No. of Follow up Patients | No. of New patients |
|---------|--|-----------------------|---------------------------|---------------------|
| 1. | Blood levels of Phenytoin, Phenobarbitone, Carbamazepine, Carbazepine epoxide, Valproic acid and Lamotrigine | 3020 | 1740 | 1280 |
| 2. | Blood levels of Warfarin and its hydroxyl metabolite | 125 | 70 | 55 |
| 3 | Lithium | 106 | 86 | 20 |

- **Malaria Diagnosis**

| Source | Total No of Slides | Total Positive | P. vivax | P. faiciparum | Mixed | Patients admitted in ward 24 |
|--------------|--------------------|----------------|--------------|---------------|------------|---------------------------------|
| OPD patients | 10666 | 783 (7.34%) | 660 (84.29%) | 100 (12.77%) | 23 (2.93%) | P.vivax- 38 P. falciparum- 1 |

- **Single nucleotide polymorphism by genotyping** was established by PCR-RFLP method for

- 100 patients on warfarin
- 100 Patients on Phenytoin

- **Blood DNA extraction** is being carried out for pediatric patients admitted in wards.

Dentistry

The department handles about 100-120 patients per day with different dental problems from simple cavities to those requiring major maxillofacial surgeries. The Department is provides facilities such as expectations root canal treatment.

Dermatology

New activities started, any specific noteworthy work including increase in patients:

Multi-platform harmony laser machine, which has revolutionized the treatment of following untreatable diseases:

Stable vitiligo, Hirsutism, Acne scars. Psoriasis and Facial Rejuvenation etc.



Multiplatform Harmony Laser

- New **CO₂ laser machine** for Warts, DPN, Acrochordons, Stable Keloid etc.
- **Q-switched Nd-YaG Laser machine** for Tattoo removal, Nevus of Ota etc
- Iontophoresis for excessive sweating over palms and soles.
- Phototrichogram study in androgenic alopecia.
- Derma -roller for treatment of atrophic scars.

Emergency Medical Services (Medicine)

The EMS provides round-the-clock emergency services to the patients coming to the hospital. Three new ventilators have been acquired in 2009 to further optimize patient management

Table: Statistics of services provided by the EMS

| Service | Number |
|--|--------|
| No. of patients attending the EMS outpatient department | 66890 |
| No. of patients attending the 'Fever OPD' | 20423 |
| No. of patients admitted to the EMS | 6457 |
| Special Procedure: Thrombolysis | 495 |
| No. of patients who received ventilator support in the EMS | 677 |

ENT

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.

Workload

| Year | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 upto Nov. |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| Indoor patients - Plastic surg | 713 | 802 | 763 | 867 | 880 | 744 | 1002 | 950 | 777 |
| Indoor patients - Burns | 125 | 153 | 135 | 197 | 255 | 173 | 151 | 105 | 73 |
| O.P.D. Patients | 7715 | 8259 | 7566 | 9084 | 9494 | 7140 | 8802 | 10001 | - |
| Casualty Reference | 1300 | 1177 | 1263 | 1533 | 1326 | 1013 | 1175 | 928 | 1178 |
| Routine operations | 1391 | 1819 | 1835 | 1852 | 2007 | 1268 | 1976 | 922 | 1475 |
| Emergency operations | 1414 | 1236 | 1252 | 1406 | 1592 | 1064 | 1721 | 2357 | 1665 |
| Total Operations | 2805 | 3055 | 3187 | 3258 | 3599 | 2332 | 3697 | 3279 | 3140 |
| Referrals from other departments | 667 | 931 | 1372 | 1437 | 2227 | 2052 | 2503 | 2268 | 1497 |

Special Services for Patient : Maxillofacial OPD

Comprehensive hand clinic

Special Facilities for Patients : Occupational Therapy services exclusively attached to our dept.

New Services Added : Comprehensive hand clinic, Thursday 2.30 pm

Maxillofacial OPD Mondays, Ward 16, 2.30pm

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%) |

Endocrinology

A. Quality and Quantum Of Patient Care

1. Indoor admission: 315 (Jan 2009 to Nov. 2009)

2. Outdoor patient: (Jan. 2009 to Nov 2009)

| | New proforma | Old proforma | New patients | Old Patients | Total |
|---------------------------|--------------|--------------|--------------|--------------|-------|
| Diabetes Clinic | 629 | 7090 | 2877 | 4148 | 14744 |
| Thyroid Clinic | 682 | 3882 | 2221 | 2424 | 9209 |
| Puberty and Growth Clinic | 533 | 2292 | 977 | 1097 | 4899 |
| Total : | 1844 | 13264 | 6075 | 7669 | 28852 |

3. Total Workload of Laboratory under Department of Endocrinology: This is shown in Table below

Table: Number of tests carried out in Endocrinology Laboratory

| Laboratory | Tests carried out |
|-------------------------|-------------------|
| Biochemistry Laboratory | 27064 |
| Hormone Assays | 35504 |

The figures pertain to the period: 1 Jan2009 to 30 Nov 2009

The department runs a variety of services. These include Diabetes Clinic, thyroid clinic, Obesity Clinic and Puberty and Growth Clinic. Interesting and challenging cases are discussed with radiologists, neurosurgeons, neuro-pathologists and nuclear medicine physician so that patient management can be optimized.

Forensic Medicine

Consultation to Dept. of Paediatric Surgery in 2 cases of child sexual abuse and estimation of age of 1 person for availing of senior citizen status.

Gastroenterology

The Gastroenterology O.P.D. is conducted thrice a week on Monday, Wednesday and Saturday morning.

| O.P.D. Patients | Number of patients |
|---|--------------------|
| New patients | 3709 |
| Follow up patients | 9144 |
| Indoor Patients | |
| Admitted to Gastroenterology wards | 1053 |
| Referred patients (Indoor) | 2101 |
| Procedures | |
| <i>Diagnostic</i> | |
| Upper GI Scopy | 1748 |
| Colonoscopy | 360 |
| E.R.C.P. | 45 |
| Proctoscopy | 230 |
| Liver Biopsy | 98 |
| <i>Therapeutic Procedures</i> | |
| Esophageal Variceal Sclerotherapy | 65 |
| Esophageal Variceal Band / Loop Ligation | 124 |
| Endoscopic clipping for bleeding lesions/ polyps | 6 |
| Esophageal Dilatation | 120 |
| Esophageal Prosthesis Placement | 2 |
| Gastric varices injection with glue | 06 |
| Bleeding Ulcer Injection | 22 |
| APC | 5 |
| Endoscopic biliary sphincterotomy and drainage | 53 |
| Endoscopic pancreatic sphincterotomy and drainage | 4 |
| Pancreatic cyst drainage | 3 |
| Polypectomy | 14 |
| Foreign Body removal | 2 |
| Percutaneous endoscopic gastrostomy | - |
| Rectal Stricture Dilatation | 14 |

Special Procedures

Endoscopies in children are done under general anesthesia: Gastroscopies:– 80; Colonoscopies - 20.

Special Investigations

Esophageal pHmetry was done in 3 patients. Esophageal Manometry was done in 87 patients.

Anorectal manometry: 70

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

General Surgery

All units see around 1500 patients per month in the regular OPDs. Around 150 patient per month are admitted. All units render many specialized services including laparoscopy, specialized GI procedures, treatment of breast and colorectal cancer.

Hematology

The department provides daily routine and emergency services to patients with 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.

Inpatient Services

The comparative data of number of patients admitted and the number of deaths for the last few years is provided in the Table below.

Table: Numerical data regarding inpatient, day care and laboratory services

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------|------|------|------|------|------|------|------|
| No. of admissions | 788 | 699 | 700 | 688 | 651 | 736 | 708 |
| No. of deaths | 50 | 54 | 46 | 50 | 56 | 48 | 37 |
| Day Care Service | 1182 | 1370 | 1693 | 1536 | 2094 | 3528 | 3061 |
| Outpatients | | | | | | 5018 | 5014 |

Day Care Services

The department runs a day care service for patients who require treatment on a day care basis. This includes patients of: Thalessemia 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, and Leukemias & lymphomas for chemotherapy.

Outpatient Services

Over 5000 old and new patients took benefit of outpatient services offered by the Department of Hematology.

| | | | | | | |
|--------|------|------|------|------|------|------|
| TOTAL= | 2007 | 3011 | 5018 | 2158 | 3241 | 5014 |
|--------|------|------|------|------|------|------|

Laboratory services:

The Hematology Laboratory conducts various tests such as Hemogram, Bone Marrow aspiration, Biopsies, Hemolytic Workup, Haemostatic Work up and Iron studies are done.

*Medicine:**Anti-retroviral therapy (ART) Center*

Around 3000 patients are enrolled with ART centre which provides follow up services. In virology OPD, around 2000 patients are on ART. Patients are provided with pre-test counseling, post-test counseling, treatment counseling. Sexual counseling, financial help and nutritional help via NGOs. Free ART and drugs for OI treatment are provided via ART centre.

Medical Intensive Care Unit

The department has a total of 23 ventilators, which provide non-invasive & invasive mechanical ventilation to patients with Acute lung injury, ARDS, Respiratory depression and Cardio respiratory failure. In the last year approximately 450 patients were provided ventilator support.

Other noteworthy services provided by the Department include:

Plasmapheresis: This is provided to patients of Gullian Bare Syndrome, Myasthenia Gravis, TTP, Polymyositis, both MICU patients and 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 procedures done: 172
- 2 Decho 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. This helps analyze infection patterns, identify culprit organisms and their resistant pattern.

Interactive rounds with faculty of physiotherapy department especially for proper Chest PT, Respiratory muscle, strengthening exercises.

Physiotherapy and Occupational therapy facilities at Hypertension OPD

Microbiology

The clinical bacteriology division processed approximately 46000 specimens during the year. 25000 isolates were tested for their susceptibility pattern. Routine detection for meticillin resistance and ESBL is established. The division also proactively identified and limited the spread of hospital acquired infections in different patient care areas. The mycobacteriology division processed 22000 specimens for microscopy and 1800 for culture. The division successfully completed drug susceptibility testing on 100 MTB isolates as a pre-accreditation requirement. The parasitology division processed 5000 stool specimens for routine microscopy and 250 for opportunistic parasites. 500 blood specimens were processed for malaria antigen. The mycology division processed 5000 specimens for fungal culture. The virology division processed more than 24000 sera for

HIV antibodies. 11200 and 4700 specimens were processed for detection of HBsAg and HCV antibodies respectively. The immunology division performed CD4 estimations on more than 8500 blood samples. The serology division processed more than 23000 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 performs viral load estimations on payment of Rs 2000. The department participated successfully in EQAS conducted by Indian Association of Medical Microbiologists.

Neonatology

I. Neonatal Intensive Care Unit : 37 bedded

| Sections | Type of Services | Cot 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 2009):

| | Number |
|--|--------|
| Total no. of babies born | 6717 |
| No. of low birth weight (LBW) babies born | 2821 |
| NICU admissions | 1679 |
| No. of Pre-term babies | 1346 |
| No of neonates who were provided Ventilatory support | 262 |
| No. of Kangaroo Mother Care (KMC) recipients | 883 |

III. New Services: Initiation of High Frequency Ventilation in newborns

Nephrology

Nephrology Department provides outdoor, indoor and Emergency care for patient suffering from renal diseases facilities available are clinical nephrology, dialysis, transplantation and laboratory services. The quantum of services provided in the year 2009 is stated below

Table: Nephrology Services

| | Number |
|---|--------|
| No. of indoor admissions | 1849 |
| No. of referrals attended | 4290 |
| No. of transplants performed | 13 |
| No. of kidney biopsies performed | 95 |
| No. of peritoneal dialyses performed | 1 |
| No. of hemodialyses performed | 5971 |
| Continuous Ambulatory Peritoneal Dialysis | 5 |

Neurology

Overall highlight of patient care services –OPD & Indoor patient services

Trends – Procedure wise for each procedure –

EEG – Paper EEG - 478

Video EEG – Inter-ictal - 876

Ictal - 204

EMG–nerve conduction - 459

Special services for patients-Pre-surgical evaluation of refractory Epilepsy

Special facilities for patients – Botulinum toxin for movement disorder.

New facilities provided – Pre-surgical assessment of Parkinson's Disease.

New OPD – Paediatric Neurology OPD started from 1st Sept. 2009

Mortality rate -

| Year | Neuro Pts | Epilepsy Pts | Indoor Pts | Paper EEG | EMG Done | Video EEG done |
|---------------|-----------|--------------|------------|-----------|----------|----------------|
| 2007 New | 5655 | 3432 | 902 | 671 | 428 | 570 |
| Old | 7580 | 4512 | | | | |
| 2008 New | 6500 | 3600 | 950 | 575 | 560 | 861 |
| Old (approx.) | 8000 | 5000 | | | | |
| 2009 New | 5992 | 3761 | 862 | 478 | 459 | 1080 |
| Old | 7815 | 4915 | | | | |

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. They are placed in respective departments, some Nursing Tutors have also specialization with Master Degree in Pediatric Nursing, Psychiatric Nursing and Community Health Nursing and Cardio-Vascular Thoracic Nursing.

Table: Nursing Staff for the Year 2009

| Category | Matron | Senior Asst. Matron | Junior Asst. Matron | O. T Supt. | Ward Sister-in-charge | Staff Nurses | House Keeper | Ward / Theater Asst | Principal | Sister Tutor |
|----------|--------|---------------------|---------------------|------------|-----------------------|--------------|--------------|---------------------|-----------|--------------|
| Number | 1 | 2 | 3 | 1 | 92 | 743 | 1 | 26 | 1 | 23 |

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 Sisters , 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 Mansoon and Bomb blast by all trained staff nurse and student nurses.

Obstetrics and Gynecology

Table: Services Provided

| | Number |
|---|--------|
| Number of confinements | 5945 |
| Number of major obstetric and gynecological surgeries | 2613 |
| Number of minor obstetric and gynecological surgeries | 1290 |
| Number of oncosurgeries performed | 6 |
| Number of operative laparoscopies done | 7 |

Occupational Therapy

The department provides all types of acute, sub acute and late rehabilitation care. Along with in-patient care the department offers services to the outpatient 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, Arthritic, Autistic and Cerebral Palsied children, other Pediatric Neurological conditions and O.T. Care in Neonatology, Hematological conditions like Hemophilia Hospice care in leukemia's, Gerontology.

Specialized OPD intervention:

- Obesity and Cardiac Risk Modulation clinic at CVTC (Occupational Therapy Department)
- Rheumatoid Arthritis Clinic (Occupational Therapy Department)
- Pediatric NDT
- Kangaroo Mother Care
- NICU clinic
- Sensory Integration Clinic
- Back School Clinic
- Musculoskeletal management for Hemophilia
- Burns, Plastic Surgery and Specialized Hand Clinic
- De-addiction: Intervention and Fitness
- Neuro-rehabilitation and Movement Disorder clinic
- Musculoskeletal & Neurological Rehabilitation
- Psychiatry: Intervention and Work Fitness
- Child Guidance Clinic
- Hypertension Clinic

Work load

| | Outpatient Department | In patient care |
|-----------------|-----------------------|-----------------|
| Patients | 7558 | 23281 |
| Visits | 19395 | 108140 |

Ophthalmology

- special ward for Keratoplasty patients which gives complete Eye-care in the form of various ophthalmic procedures Like Contact lens, intraocular lens implantation, keratoplasty Flueresein angiography& Vetreo retinals surgery, diagnostic Facilities with ultrasound, slit lamp, perimeter & Fundus Cameras are available for out patients and for these specially refund .
- Well established 'Eye-Bank' with facilities for enucleation storage use for the balls.
- Center for diseases of the Posterior segment of Eye. It has Facilities for colour and Fluorescein in funds Photography . photocoagulation is presently done with Double frequency Yag Laser. Vitreo Retinal Surgery Is Regularly done in the Dept.

Total Operations : 1881

Total Admission :1317

Orthopedics

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.

OPD has been started for cerebral palsy patients.

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

CVTC Laboratory 116

Annual workload

1. Autopsy Pathology
 - a. Cardiopulmonary blocks received 343
 - b. Cardiopulmonary blocks accepted 213
 - c. Blocks prepared 2512
 - d. Slides prepared 5250
2. Surgical Pathology
 - a. Specimen received 502
 - b. Blocks prepared 896
 - c. Slides prepared 2266
3. Special stains etc. 2319
4. Cytopathology
 - a. Cytological samples received 756
 - b. Slides prepared 2312

CVTC Laboratory 315 (CVTC Building)

Annual Workload

- a. Blood collections 16,923
- b. Hemograms 61700
- c. Prothrombin time 14325
- d. Routine Urine Examination 2787
- e. Routine body Fluid Examination 163
- f. Lipid Profile 24194
- g. Complete Lipid Profile 30,253
- h. Creatine phosphokinase & isoenzyme 1100
- i. Serum Amylase 137

CVTC Immunology Lab 316

- a. Serum immunoglobins 303
- b. Serum complement (C₃, C₄) 1967
- c. High sensitivity C-reactive protein 5589
- d. RA factor 710
- e. Cryoglobins 15
- f. Bronchialveolar lavage cytology 20

Cytology (library bldg. 2nd floor)

Participated in external quality control programme of PGI Chandigarh and Tata Memorial Hospital, Mumbai with excellent results.

- a. Total FNAC performed 3975
- b. No. of slides generated from FNAC 15900

| | |
|--------------------------------------|------|
| c. PAP stain carried out on | 7950 |
| d. Giemsa stain carried out on | 7950 |
| e. No. of fluid samples for cytology | 374 |
| f. No. of slides generated from FNAC | 748 |
| g. PAP stain carried out on | 374 |
| h. Giemsa stain carried out on | 374 |

OC Laboratory

| | |
|---------------------|------|
| a. Hemograms | 9963 |
| b. Biochemistry | 5287 |
| c. Hb | 9963 |
| d. PCV | 2084 |
| e. ESR | 9963 |
| f. WBC total | 9963 |
| g. WBC differential | 9963 |
| h. MP | 217 |
| i. BT/CT | 02 |

EMS Laboratory

| | |
|----------------------------------|---------|
| a. Haemograms | 1,01066 |
| b. CBC | 71,058 |
| c. Platelet count | 96,660 |
| d. PCV | 4901 |
| e. Smears for malarial parasites | 74,143 |
| f. Arterial Blood Gas | 27377 |
| g. CSF | 2272 |
| h. MPA | 74,143 |
| i. Vivex | 6535 |
| j. Falci | 3203 |
| k. Mixed | 1660 |
| l. Total MP Positive | 11,398 |

Surgical Pathology (Library Bldg. 2nd Floor)

| | |
|------------------------------|-------|
| a. No. of specimen | 8200 |
| b. No. of blocks | 21343 |
| c. No. of slides prepared | 26500 |
| d. No. of special stain | 2365 |
| e. No. of frozen section | 320 |
| f. No. of frozen bits cut | 1250 |
| g. No. of kidney biopsies | 193 |
| h. No. of kidney blocks | 238 |
| i. No. of Bone marrow blocks | 185 |

Clinical Pathology and Hematology (MSB 6th Floor)

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

| | |
|--|------------------------|
| a. Hemograms | 66,472 |
| b. Malarial parasites | 13,948 |
| c. Malaria Antigen (Optimal + QDX) | 902 |
| d. Platelet count | 44,629 |
| e. Special investigations (RBC, sickling, LE cell etc) | 2090 |
| f. Bone marrow biopsies | 390 |
| g. Special stains for leukemia | 164 |
| h. Total urine samples | 17,560 + 1700 = 19,260 |
| i. Total fluids | 2466 |

Neuropathology (MSB 6th Floor)

Clinical Pathology

- a. No. of Haemograms 968
- b. No. of CSF examined 166

Biochemistry

- a. No. of Ascitic / Pleural 2449
- b. Proteins urine prophyrin

Histopathology

- a. No. of tissues received 1001
- b. No. of blocks prepared 1458
- c. No. of slides prepared 1509
- d. No. of tissue for cryo / squash 151/558
- e. No. CSF cyto / cryptococci 168/233

Autopsy

- a. No. of brains received 114
- b. No. of blocks prepared 1285
- c. No. of slides prepared 1325
- d. With spl stains

Clinical & Hematological Services

- 1. Outpatient Department Laboratory (MSB Ground Floor)
 - a. Blood collections 2,34,095
 - b. Hemograms 2,34,095
 - c. Coagulation profile (BT/CT) 3,310
 - d. Routine urine examination 60,348

Pediatric Surgery

Total admissions : 3020

- Total Surgery : 2644
- Major Surgery : 571
- Minimal Access Surgery: 186
- Minor Surgery : 2073

Pediatrics

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 |

New services:

- Pediatric Anti Retrovirus Therapy clinic – new day i.e. Wednesday morning as per the national government directive, common HIV OPD day for the country.
- Pediatric Epilepsy Care Clinic for children suffering from epilepsy, stressing on monitoring of treatment (TDM) and management of co-morbidities. 79 new patients enrolled in 2009.
- New facilities provided – PICU benches for patient relatives, Patient information system PICU and Renovated school clinic.
- Pediatric Chest Clinic for Asthmatic and Allergies (Preventive and Therapeutic) –181 new patients

- Pediatric Rheumatic and Nephrology OPD emphasizing on monitoring and treatment of renal disorders and rheumatic disorders - 25 and 29 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.
- 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

Pharmacology & Ayurveda Research Centre

- OPD services: Ayurveda Research Centre of Department of Pharmacology and Therapeutics runs an OPD on Friday afternoon. Last year, 2700 patients registered in the OPD.
- Indoor admissions in the Ayurveda Ward were done whenever detailed assessment and therapeutic procedures were required.
- *Panchkarma* and other therapeutics procedures were performed on 970 patients who were admitted on Day Care basis. Ksharsootra was supplied to Department of Surgery for 35 patients with fistula in ano.
- Monitoring for Quality of Ayurvedic Formulations: 41 Ayurvedic formulations were analyzed for synthetic steroids and of these 17 were found to contain synthetic steroids. In addition 6 samples were received for detection of Lead, 6 for Mercury, and 6 for Arsenic.
- Ayurvedic therapeutic facilities are being strengthened by introducing newer techniques like yoga, advice regarding daily and seasonal diet and activities for health promotion and *avagah swedan*.

Physiotherapy

*P.T. School & Centre have facility to offer specialty Physical Therapy patient care in the 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
- **New Services:** Relaxation techniques in chronic pain syndrome.
- Evaluation and training of geriatric patients to reduce the risk of falls.

New Facilities:

- Transcutaneous nerve stimulation in hypertensive patients.
- Myofascial release in cervical spondylosis

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 units and Wards of K.E.M. Hospital
- Daily average of P.T., OPD attendance: 500 patients
- Daily average of PT Indoor attendance: 600 patients

Preventive and Social Medicine

I. Services in KEM campus:

a. General OPD services :

PSM department manages General OPD services in KEM Hospital wherein all new patients attending KEM Hos-

pital 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 2009, 42,739 patients were examined in GOPD (male - 25,787, female – 16,952) . 11,711 (25%) patients required referral to other specialties for further management.

In the same premises, screening of BMC employees is also carried out for infectious diseases and chronic diseases. A total of 3090 employees (male – 1814, female – 1276) were examined in 2009.

b. Immunization OPD :

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

Vaccine beneficiaries:

Table: Beneficiaries of the Immunization Clinic

| Name and dose of the Vaccine | Number of beneficiaries | | |
|------------------------------|-------------------------|--------|-------|
| | Male | Female | Total |
| BCG | 2535 | 2035 | 4566 |
| OPV 0 | 2017 | 1708 | 3725 |
| DPT 1/ OPV1 | 897 | 663 | 1560 |
| DPT2 / OPV2 | 585 | 442 | 1027 |
| DPT 3 / OPV3 | 589 | 392 | 981 |
| HBV 1 , HBV 2, HBV 3 | 1892 | 1614 | 3446 |
| Measles | 479 | 364 | 843 |
| MMR | 452 | 346 | 798 |
| DPT / OPV B1 | 325 | 240 | 565 |
| DT / OPV B2 | 177 | 121 | 298 |

In addition, 8 rounds of Pulse Polio Sundays followed by a week of IPPI activities within the campus were conducted in the year of 2009.

c. Drop-in-Centre :

A care and support project in HIV-AIDS in collaboration with MDACS, provides personalized counseling to beneficiaries and their families, refers the patients to other health care institutes / NGOs for health & non-health services and provides advocacy on issues concerned with HIV+ve people.

Counseling Services:

Table: Beneficiaries of counseling services provided by the Department of Preventive and Social Medicine

| Details | M | F | Total |
|-------------------------------------|-----|-----|-------|
| No. of cases counseled | - | - | - |
| Old | 526 | 399 | 925 |
| New | 348 | 210 | 558 |
| Total No. of partner counseled | 354 | 276 | 630 |
| No.of of family / friends counseled | 232 | 204 | 436 |

d. Swine flu screening in peripheral hospitals and mobile teams :

Swine Flue (H1N1) Emergency Response, by establishing special screening OPDs at 12 peripheral BMC hospitals was coordinated by PSM department of KEM Hospital. The lecturers & RMOs and interns from all the three Municipal medical colleges screened the patients at these hospitals from 7th of August 2009 to 4th of November 2009. The team from KEM hospital was designated V. N. Desai Hospital Santacruz, Bhabha Hospital, Bandra and Shatabdi Hospital Deonar.

Total number of patients screened and treated by the team during this period is shown in the Table below.

Table: Patients screened for Swine Flu

| Sr. No. | Name of Hospital | Total No. of patients | No. of patients treated | No. of swabs taken |
|---------|------------------------|-----------------------|-------------------------|--------------------|
| 1 | Bandra Bhabha Hospital | 4615 | 414 | 299 |
| 2 | V. N. Desai Hospital | 2269 | 193 | 73 |
| 3 | Shatabdi Hospital | 4623 | 339 | 83 |

The department also assisted in household surveys and screening activities conducted for the detection of swine flu. These activities were followed by screening activities for detection of malaria.
(Swine flu from 3.9.09 to 26.11.09 and malaria from 22.9.09 to 26.11.09)

Table: Screening activities carried out in the population

| No. | Details | Number of patients |
|-----|--------------------------------|--------------------|
| 1 | Houses covered | 65,763 |
| 2 | Population covered | 4,11,606 |
| 3 | People screened | 7754 |
| 4 | Patients referred | 382 |
| 5 | Peripherals smear slides taken | 1371 |
| 6 | Chloroquine administered | 1405 |

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 investigations 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 4604 and total deaths were 198.

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 2009 till date, 1799 patients were examined in the General OPD at Naigaon.

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

In the year 2009 till date, 450 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 OPDs conducted

| Day | Morning Session | Afternoon Session |
|-----------|--|---|
| Monday | General OPD, POPD, TB-OPD, STI clinic Dental OPD | Psychiatry OPD, AGI |
| Tuesday | General OPD, Pediatric OPD, TB-OPD, STI clinic, Immunization | New ANC Registration |
| Wednesday | General OPD, Pediatric OPD, TB-OPD, STI clinic, Dental OPD, Leprosy Clinic | Psychiatry OPD, Chronic OPD, Gynecology OPD |
| Thursday | General OPD, Pediatric OPD, TB-OPD, STI clinic, Dental OPD, Immunization | Chronic-OPD, ANC Clinic |
| Friday | General OPD, Pediatric OPD, TB-OPD, Dental OPD, STI clinic | Psychiatry OPD, ANC Clinic |
| Saturday | General OPD, Pediatric OPD, TB-OPD, STI clinic, Immunization | ----- |

Others - Cataract camp - Monthly

Table: Patient Visits In General OPD and Pediatric 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 & Asthma 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.

The information about the beneficiaries of these various activities is provided in the Tables below.

Table: Immunisation OPD beneficiaries at Naigaon Health Post

| Vaccine | Male | Female | Total |
|----------------------|------|--------|-------|
| BCG | 947 | 858 | 1815 |
| OPV 0 | 733 | 694 | 1427 |
| DPT 1/ OPV1 | 1327 | 1082 | 2409 |
| DPT2 / OPV2 | 1253 | 1192 | 2445 |
| DPT 3 / OPV3 | 1373 | 1200 | 2573 |
| HBV 1 , HBV 2, HBV 3 | 1126 | 962 | 2088 |
| Measles | 1006 | 916 | 1922 |
| MMR | 371 | 633 | 1004 |
| DPT / OPV B1 | 801 | 748 | 1549 |
| DT / OPV B2 | 902 | 851 | 1753 |
| TT | 770 | 645 | 1315 |
| TT (ANC) | - | 1418 | 1418 |

Table: Attendance at the 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% |

Table: Attendance at the 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 |

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
- Medicine O.P.D., Gynaecology O.P.D. – twice a week
- Skin O.P.D. , Ophthalmology O.P.D. – once a month
- Pathology laboratory , Radiological investigations – once a week

Table: Beneficiaries of services at the Rural Health Training Centre, Sakwar

| Services | Patients examined |
|-------------------|-------------------|
| General OPD | 29044 |
| TB OPD | 453 |
| Leprosy OPD | 1282 |
| Dental OPD | 1051 |
| Ophthalmology OPD | 240 |
| Gynecology OPD | 446 |
| Ante Natal Clinic | 188 |

Radiology

| Radiology Procedures | No. of Patients |
|---|-----------------|
| HSG | 286 |
| IVU | 1821 |
| Barium | 2618 |
| USG | 34120 |
| CT | 22744 |
| MRI | 6964 |
| INR | 1152 |
| VIR | 1143 |
| Gen. Radiology No. of Patients (New) | 10552 |
| No. of Patients (Old) | 58529 |
| X-ray (CVTC) No. of Patients | 8166 |
| No. of Patients (Old) | 3679 |
| X-ray No. of Patients New (OC) | 12126 |
| Old | 13252 |

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.

Since its establishment three years back, we have catered to patients from other teaching institutes of Mumbai, and other various reputed hospitals not only of Mumbai, but also from other parts of Maharashtra and India.

The USP of our department is the Quality care, on par with International standards, at a very low cost, with empathy towards patients. We have operated successfully on patients who have been refused surgery elsewhere or deemed inoperable elsewhere. 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.

Since our OT is getting renovated from Sept 2009, the numbers are less in second half.

Trends:

Table: Data regarding work carried out at a Glance

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------------|------|------|------|------|------|------|------|
| OPD attendance | 1670 | 1560 | 2504 | 2718 | 2882 | 2793 | 2737 |
| Indoor Admissions | 779 | 651 | 519 | 678 | 691 | 701 | 521* |
| Surgical procedures undertaken | 276 | 237 | 224 | 321 | 344 | 347 | |
| GI scopies performed | 451 | 575 | 654 | 699 | 368 | 280 | 194 |
| Hospital infection rate (%) | 2 | 7 | 10 | 8 | 6 | 7 | 4 |
| No. of deaths | 2 | 6 | 8 | 7 | 9 | 11 | 6 |

*: Represents numbers till 30th November 2009. The numbers appear small as the operation theatre is undergoing renovation

Special services for patients:

1. Radio-frequency ablation of non operable solid organ tumors:

We have procured radiofrequency ablator which enables to ablate tumors which have been deemed inoperable, or in patients who are reluctant and not willing for surgeries, owing to its complex nature and for the fear of morbidity. With the help of our radiological colleagues, till date we have done 36 patients of Liver tumor, under CT/ USG guidance. This procedure which costs around Rupees one lakh in private hospitals, is done at the basic cost of needle, which too is obtained at concessional rate. The entire procedure cost s the patients only Rs 25,000/-.

2. Video-endoscopy suite:

We have made a dedicated state of art, Vide-Endoscopy suite, having upper GI, lower GI, lateral viewing and choledochoscope as well. The patients are given color print-outs of the reports. All this is done at a very nominal charge of Rs 250/- only.

Special facilities for patients:

Counseling of the patients and their relatives:

Each and every patient and his relatives, prior undergoing surgery is counseled regarding the nature of surgery, the outcome and the likely complications. Depending on the patient's level of intelligence, the counseling is done either verbally, pictorially and even through video-CDs of the procedure.

New service added:

1. Starting of Liver transplantation Centre at KEM hospital
2. Development of state of the art Modular operation theater and ICU

Tranfusion Medicine

In addition to the routine services, Transfusion Medicine provides Single Donor Platelets(prepared by plateletpheresis) to patients, particularly to those with haematological disorders, monsoon related illnesses and those undergoing cardiac surgery. Total 1304 units of Random Donor platelets and about 216 units of Single Donor Platelets (SDP) were issued for the patients of monsoon related illnesses. The need of 150-200 blood units per day for patients admitted in our hospital is fulfilled by about 200-220 blood donation camps in a year with over 38000 blood units collected annually.

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
 - Urodynamic Studies (Uroflowmetry): This laboratory helps in evaluating people with obstruction to urine flow.
 - Doppler ultrasound: This investigation helps in evaluating patients with infertility and following transplantation.
 - Radiological investigations like Retrograde Ureterogram and Retrograde Pyelogram.
 - Uro-endoscopy
 - Phalldynamic Studies (Impotence Studies).
 - RGP/PCN
 - 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 considered 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 has devised this economical prosthesis costing Rs.8,000/- versus Rs.40,000/- for the imported variety.

Table: Workload of the Department (for last 3 Years) Patient Workload

| Year | Gen. Urology | O.P.D | Attendance | | Indoor Admissions | Referrals Calls | |
|-----------------------|--------------|--------------|-------------|-------|-------------------|-----------------|-----------|
| | | Stone Clinic | Infertility | Total | | Emergency Calls | |
| | | | | | | Indoor | Intra op. |
| 2007 | 6755 | 7886 | 1012 | 15653 | 943 | 800 | 12 |
| 2008 | 5894 | 6302 | 729 | 12925 | 670 | 1394 | 27 |
| 2009 (till Nov. 2009) | 5842 | 5838 | 754 | 12434 | 934 | 1235 | 35 |

Table: Diagnostic Workload

| Year | USG | Cystoscopy & Related Procedures | Uroflowmetry | Trust Guided Biopsy |
|------|-----|---------------------------------|--------------|---------------------|
| 2007 | 35 | 1240 | 1264 | 40 |
| 2008 | 26 | 774 | 198 | 144 |
| 2009 | 25 | 1354 | 880 | 220 |

Table: Operative Workload

| | 2007 (Till Nov.) | 2008 (Till Nov.) | 2009 (Till Nov.) |
|-------------------------------|------------------|------------------|------------------|
| Open work | 127 | 77 | 143 |
| Transplant – (LRDT + Cadaver) | 23 | 16 | 13 |
| Endo-urology : | | | |
| VIU | 70 | 82 | 80 |
| TURP | 78 | 61 | 70 |
| Endomeatotomy | 3 | 2 | 3 |
| Litholapaxy | 9 | 23 | 30 |
| URS | 50 | 44 | 77 |
| PCN | 45 | 35 | 40 |
| PCNL | 184 | 87 | 97 |
| PCCL | 12 | 14 | 9 |
| Endopyelotomy | 5 | 0 | -- |
| TURBT | 20 | 15 | 21 |
| Laparoscopy | 57 | 63 | 35 |

| ESWL: Location | 2007 (till Nov.) | 2008 (till Nov.) | 2009 (upto Nov.) |
|----------------|------------------|------------------|------------------|
| Renal Stone | 95 | 190 | 197 |
| Ureteral Stone | 88 | 142 | 52 |

Community Care

Community care

Anatomy

The postgraduate doctors of the department catered to patients attending the Fever OPD and Mobile Fever OPD vans during the H1 N1 outbreak.

Anesthesia

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

Conducted 5 ACLS courses for H1N1 infection

Supported residents to donate blood in blood donation camps.

Biochemistry

Departmental members were part of the team sent to MCGM Head office for medical checkup of employees and perform blood investigations for members of Anti – corruption Bureau.

Cardiology

Organized Blood donation camps for the month of December, 2009

Chest Medicine

Conducted following respiratory morbidity related health surveys to study the effects of air pollution on health.

Asthma Prevalence Study in School Children (Std.VIII & IX) Narepark Mun.sec school; Byculla Municipal Secondary school(Urdu & Marathi medium), Chhabildas Secondary school (boys), Prabhadevi secondary school no.2 and S.I.E.S High school during Aug – Nov.09

Asthma Prevalence & respiratory morbidity related health surveys in residential societies of Sudha park society, Ghatkopar; Bhandup complex, Chheda nagar, Chembur and Premjyot complex in Mar- May 09

Asthma Prevalence & respiratory morbidity related health surveys in employees of BMC head office, Versova pumping station, Pise - Panjre- Pol Chlorination plant, Mumbai Police and Anti-corruption Bureau in July- Dec 09

Social Awareness camps and lecture on asthma and it's trigger factors along with emphasis on treatment compliance was given to all students of schools listed above.

Dr.Amita Athavale (professor and head) has delivered a talk on 'talk time on world asthma day' conducted by IBN Lokmat on 5- 05-09 thus contributing to spread of awareness among masses regarding asthma.

Dentistry

The Department members organized camps all over the city to create social awareness about oral hygiene

Endocrinology

Social Awareness camps and lectures for Diabetes and Osteoporosis were conducted for residents of following colonies as Dabhalkarwadi Sewree, Anmol Co-operative Housing Society Dadar, Janata Colony school ground, Worli Village, Tejukaya Mantion Ganesh Utsav Mandal, Lalbaug, Jijamata Nagar Kalachowki, Saint Domnic Church, Wadala, Ambewadi Abhyudaya Nagar & Panchshil Seva Sangh, Kalachowki, All Printing Press, Wadala, Vidya Nagar Mahatma Gandhi Road Goregaon, Maharashtra School, Dadar, Gomata Nagar Transit Camp, Lower Parel, Vishvas Sangh Sevasangh, Ashoknagar, Bhandup, Seva Foundation Merwanji Street, Parel, Kurla Municipal school, Nagrik Seva Sangh, Lalbag, Mahatma Phule Sadan, Curry Road, Achanak Krida Mandal, Dombivali, Family Welfare Society, Lower Parel, Casp" NGO, Mahim and Prasiddhi NGO, Prabhadevi

Hematology

Dr. Farah Jijina conducted Cancer awareness programmes in schools, colleges and offices and organised anti tobacco campaign. She also conducted breast cancer awareness programmes, and general awareness for cancer education.

Medicine

Dr.A.R.Pazare, Dr.N.D.Karnik, Professor, Dr.Raminder Singh, Associate Professor Dr.R.N.Sahay, Associate Professor conducted the medical health check up camp for employees of Mumbai Police and BMC.

Blood donation camp organized by the residents

Dr.S.B.Salagre, Associate Professor organized the hypertension and Diabetes detection Camp on 26th Jan.2009 for general public and police Personnel of Pydhonie Police Station.

Medical Camp on the occasion of World Kidney day on 14th March 2009 at Purandar Stadium, Dadar.

Health Screening Camp for the BMC Head Office employees which was held at BMC Head Quarters from 27th July 09 to 30th July 2009.

Anemia Awareness & Detection Camp for the female employees of S.G.S.M.C.& K.E.M.Hospital on 26.11 & 27.1109 in Medicine Seminar Hall.

Dr.Archana Sonawale, Assistant Professor conducted 5 training lectures for AMOs of peripheral Hospitals on 'Swine Flu'

Microbiology

Medical Officers and Practitioners training program for RF /RHD awareness and prevention in collaboration with PSM department

Screening of school children in the age group of 5-15 years for RF/RHD

Assisted in the conduct of the free kidney check up camp organized by Gosumec Alumni Association

Neonatology

Guest lecture on Lactation Management and Kangaroo Mother Care organized by Inner Wheel Club of Airport for mothers at Nanavati Hospital, on 6/8/09.

Nephrology

Conducted camps for early defection and screening for Chronic Kidney disease on world kidney day 13th March 2009.

Dr. Hase N.K. delivered series of lecture on Asmitha Vahini' All India radio on options after Kidney failure and protection of kidney Sept. – October 2009.

Dr. Hase N.K. participated "Camp on Kidney Hypertension & .DM. organized by Nashik Medico on 30th May 2009.

School of Nursing

Offers patient care at Urban Health centre, Naigaon, Maternity Hospital, Dadar

Offers patient care at Rural Community Health Services, Nere, & Ajiwali Panvel Primary health Centre

Participation in National Health Programme like Pulse Polio programme at Nere, Ajiwali Panvel, PHC. and Kharghar

Arranged street play was on HIV Aids Awareness on WORLD AIDS DAY ON 1.12.2009

Arranged street plays, Health Education Programmes and Exhibitions at Naigaon, Primary Health Centre and Ajiwali and Nere, Panvel, Rural PHC. by Nursing Students.

Has started child to child programme at B.J. Deorukhkar Municipal Primary School, Naigaon, Dadar

Obstetrics

Workshop on Breast feeding in collaboration with Breast feeding Promotion Network of India for Residents in August 2009.

Guest lecture on Maternal health scenario in Rural India by Prof Roger Jeffery on 11th November 2009 for RMOs

Sensitization session on Adoption Awareness for RMOs with Family Service Centre, Mumbai.

Occupational therapy

Snehal P. Desai (Assistant Professor) has conducted lectures on first aid & Cardio Pulmonary Cerebral Resuscitation for a community organized by MCGM Disaster management cell.

Snehal P. Desai has offered Occupational Therapy Service for camp organized by Bhagwan Mahaveer Viklang Sahayata Samiti & Goenka Group of Industries at Badlapur in August 2009

Kirti R. Kene (Junior Occupational Therapist) conducted a camp "Fitness in elderly-May 09" organized by Rotary club Downtown.

Kirti R. Kene an active member for "Hemophilia management & well being of persons with Hemophilia" camp at Jaipur. At Santok ben medical college in 8th August'09

Kirti R. Kene Has been a member of a CME on hemophilia at S.P Medical College, Bikaner, Rajasthan; Management & interaction with patients & their families at Shahari slum dispensary, Sarvodaya basti at Bikaner
 Vaijanti L. Jain(Junior Occupational Therapist) an active member for youth rallies (5 km walk) conducted at Marine drive for awareness about Drug abuse in teenagers
 -Vaijanti L. Jain offered Occupational Therapy Service for camp organized by Bhagwan Mahaveer Viklang Sahayata Samiti & Goenka Group of Industries at Badlapur in August 2009.

Pediatric Surgery

Organized social awareness camp in Dhanu, Chinchwad and Kasara

Pediatrics

Interns posted in pediatric department attended camps as directed by PSM department.
 Health education in general for patients' relatives in the wards.
 Health education lectures on awareness of rheumatic fever / heart disease
 Support for camps for pediatric check up in community
 Arranged school clinic education & posters
 Residents deputed for National Adoption Awareness Week 19.11.2009 from Department of Pediatrics.

Pharmacology and ARC

Participated in health camp conducted on World Kidney Day at Purandare stadium on 21st March 2009.
 Organized a health camp at Chaityabhumi on 6th December 2009 to provide care and awareness about rational use of Ayurvedic drugs.

Physiotherapy

Arranged Awareness Programs on:
 Risk factors in obese women & Role of Exercise and lifestyle modification.
 Risk factors in IHD and role of Lifestyle education.
 Ergonomic Advise to House wife to protect neck and shoulder joint injury

Preventive & Social Medicine

Anaemia detection program conducted in Jan.09 at Naigaon Maternity Home
 Bone density check-up camp with poster exhibition at BIT chawls, in March 09 .
 Eye check up camp organised for senior citizens at Naigaon community in collaboration with Ophthal Dept, KEM Hospital
 Bone density check up camp organised for KEM staff members alongwith poster exhibition on osteoporosis in April 09.
 Hypertension awareness & detection program with involvement of undergraduate medical students in Naigaon community
 Sankrant Haldikumkum celebration held at Naigaon Maternity Home Jan.09. Skit by nursing students, nutrition demonstration, Til-laddu distribution, poster exhibition & health education was provided
 Population day celebration in collaboration with Kamgar Kalyan Kendra, Naigaon in July 09 – Talk given by PSM staff.
 Breast feeding celebration program at Naigaon community& Kalachowky community hall in Aug.09 included Poster exhibition, skit by nursing students, prize distribution to underfive children and their mothers.
 Anaemia awareness program conducted at police headquarters No.8, Naigaon in May 09 included anaemia detection & poster exhibition – Total participants – 45
 Mental health awareness program conducted at Naigaon Maternity home in collaboration with Pyschiatry dept. with poster exhibition in Oct. 09
 Geriatric day celebration program at Kamgar Kalyan Kendra included yoga demonstration for geriatric people in Nov.09.
 World AIDS Day celebrated on 1.12.09 with panel discussion on HIV/AIDS.

Community Outreach Health Services in Malvani area :

- Swine flu screening in community by resident & interns.
- Health check up camp for children of construction workers at construction sites in coordination with NGO 'Mobile crèche' in February 2009:
- Bone densitometry camp conducted in Malvani UHC for geriatric population of the community in October 2009.

Social awareness camps:

- Organised 26 poster exhibitions on various health topics developed Patient Education Centre in different areas in the institute and community.
- Skit presented on ANC care, Breast Feeding & Immunization by nursing students for patients attending ANC OPD in December 2008
- Skit on DOTS for TB performed in the community as well as in the center for patients on DOTS on occasion of World TB Day, March 09
- Skit & special talk on Women Health Day, March 09.
- World breastfeeding week: Skit by interns at Choksy Hospital & Malvani UHTC, panel discussion at UHTC, rally in community in Aug. 09
- World Mental Health Day celebrated on 8/10/09 in coordination with Psychiatry Department, KEM hospital. Sessions conducted to increase awareness and dispel misconceptions about mental illnesses.
- World Geriatric Day celebrated on 28-29/10/09.
Bone densitometry, poster exhibition & skit presentation & geriatric population attending the function were given information about 'Elderline'.
- World AIDS week celebrated from 1.12.09 to 7.12.09 with skit in the community, poster exhibition, quiz for police staff and lecture for NSS students.

Social awareness lectures:

- AGI training conducted for girls (school drop-outs) from the community in collaboration with Malvani health post no.1.
- Sessions on family life education were taken for adolescent girls attending sewing class in community.
- Orientation training on sexual harassment at work place.

Community Outreach Health Services at RHTC Sakwar :

- Regular Health check up of 5 aanganwadis under Sakwar subcentre beneficiaries
- Regular health check up of 3 balwadis managed by Ramkrishna Mission beneficiaries
- Comprehensive health check up with health education for Ashramshala students at Belwadi
- Eye check up camp at Mokhada in collaboration with Rotary international on 26.1.09
- 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.

Social awareness lectures:-

- Dr. S.S. Bansode : Professor was invited as chief guest for breast feeding week celebration at Abhyudaya Nagar, Kala chowki, Kamgar Kalyan Kendra during Aug.09 where health talk was given on breastfeeding, & balanced diet.
- Dr. S.S. Bansode Invited as chief guest during International Women's day celebration on 8th March 09 at B.Ed college of Gokhale's Society college of education and research. Lecture on importance of international womens day, followed by talk on Nutrition / HIV-AIDS / PNDT.
- Dr. K.P. Bhate : Assoc. Professor conducted two rural workshops on IYCN at Sangh District and Hingoli District – Feb. & Nov.09
- Dr. K.P. Bhate arranged five workshops at TISS for CARAT sensitization of counselor from Gujrat
- Dr. K.P. Bhate conducted IYCN training of RMOs from 3 dept. and all the medical colleges and Co-ordinated IYCN workshops and consultation meetings with MUHS
- Dr. K.P. Bhate Radio program on Infant and Young child nutrition on vividhbharti on 4.12.09.
- Dr. S. Acharya : Assoc. Prof. gave guest lectures on 'STI & RTI' for ICTC counselors from different states Gujrat, Chhatisgarh at TISS.
- Dr. S. Acharya : Assoc. Prof delivered lecture on 'Reproductive health & family planning during refresher training of counselors
- Dr. S. Acharya : Assoc. Prof gave a guest lecture on 'Anaemia and balanced diet' for NSS volunteers (250) at Ambedkar college.
- Dr. S. Acharya : Assoc. Prof gave lecture on Family life education skills for tribal youth (80) at Sakwar and lecture on Sexuality and body mapping lecture for street children with NGO 'Prerana'

Psychiatry

Trained psychiatrists examine and treat patients hailing from Malavani Psychoeducational lectures are taken during community programmes. This year lectures taken were about 'Deaddiction' during Mental Health week, A poster exhibition was also organized for awareness of the community. Individual & group counseling services are also provided where needed. Patients requiring detailed testing and evaluation are occasionally referred to psychiatry department of KEM Hospital when needed. This year 1032 patients were evaluated. The staff gave several talks on suicide prevention strategies, on scholastic backwardness, self esteem, and communication skills.

Transfusion Medicine

Increase the awareness about blood donation amongst the college students and the youth in the society, lectures were taken by Dr.Charusmita Modi, Associate Professor at Gurukul College, Ghatkopar and Acharya College, Chembur and Dr. Swarupa Bhagwat, Assistant Professor took lectures at Gokhale College

-Felicitation of the blood camp organizers and regular voluntary blood donors on 1st October 2009, the National Voluntary Blood Donation Day.

Education

Education

Anatomy

Courses offered and intake:

The courses taught by the Department of Anatomy are listed in Table 1:

Table 1: Courses taught by the Department of Anatomy Serial No.

| | Courses taught | Annual Intake | Results (% of pass) |
|---|-------------------------|---------------|------------------------|
| 1 | I MBBS | 180 | 95 % |
| 2 | MD Anatomy | 04 | 100 % |
| 3 | Ph.D. Anatomy | NIL | - |
| 4 | M.Sc. (Applied Biology) | NIL | - |
| 5 | I B. P. Th . | 33 | 92.5% |
| 6 | I B.O.Th. | 35 | 76.7 % |
| 7 | Nursing | 80 | -- |

Information about other courses taught by the Department of Anatomy is provided in Table 2.

Table 2: Other courses conducted

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

During the year, the department conducted several collaborative workshops, which are listed in table 3 below:

Table 3: Collaborative Workshops conducted by the Department of Anatomy

| Sr. No. | Name of the Workshop | Department Collaborated with | Date |
|---------|--|--|----------|
| 1 | Workshop for Phonosurgeons (PHONOCON 2009) | ENT Department, Bombay Hospital | 13/02/09 |
| 2 | FESS | ENT Department, PD Hinduja National Hospital | 19/09/09 |
| 3 | Annual Arthroplasty course Bombay Orthopedic Society (BOS) | Dept. Of Orthopedics | 21/09/09 |
| 4 | Cadaveric Workshop on Spinal instrumentation (BOS) | Dept. Of Orthopedics | 06/12/09 |
| 5 | Cochlear Implant workshop | ENT Department, Hinduja Hospital | 20/12/09 |

Library Holdings:-

| | |
|-------------------------------------|-------|
| Total No. of Books: | - 222 |
| No. of New Books purchased in 2009: | - 63 |
| No. of Journal titles: | - 03 |
| Total No. of Journals: | - 111 |

Anesthesiology

MD Intake: 16; Results 100% DA: Intake 15; Results 100%

CPCR: Advanced Cardiac Life Support (ACLS): 30 workshops, attended by 100 students.

- New courses added and Intake

One year fellowship courses started with approval from the Maharashtra University of Health Sciences (MUHS) Courses in Cardiac Anesthesia, Neuro Anesthesia, Pediatric Anesthesia. The intake is two students per course.

- Library

1. No. of books: 600

2. Computer equipped Dept library is available for use to faculty and residents.

Biochemistry

Fifteen undergraduate students from basic Sciences all over Mumbai participated in the summer training in laboratory. GCLP Course: 42 delegates from Maharashtra and one from Punjab participated.

Courses offered and annual intake:

Ist M.B.B.S. – 180

F.Y.P.T. – 40

D.M.L.T. – 10

M.Sc. (I) – 12

M.Sc. (II) – 12

M.Sc. (Research)

Ph. D.

Library:- Total No. of Books: 825

New Books added: 15

Results:

Table 4: The results of various courses conducted by the Department of Biochemistry

| Course | Appeared | Passed | Percentage of students successful |
|----------------|----------|--------|-----------------------------------|
| First M.B.B.S. | 184 | 172 | 94 |
| F.Y.P.T. | 47 | 35 | 75 |
| D.M.L.T. | 9 | 3 | 33 |
| M.Sc. (I) | 11 | 8 | 78 |
| M.Sc. (II) | 10 | 10 | 100 |

Cardiology

The Department trained six trainees from Mumbai, New Delhi and Gujarat as Observers in the Department **Courses offered and intake for the current year:**

- D.M. Cardiology: At present three residents joined for the cardiology course.
- M.D. (Medicine: Allied) Resident doctors registered with Department of Medicine are posted for three months in the Department of Cardiology for training.
- IIIBPTh and BOTh students & MPT students for clinics.
- SN.D.T. M.Sc. Nursing students are guided for their thesis work.

Undergraduate students are provided guidance for research projects under Kishor Vaigyanik Puraskar Yojana (KVPY) and ICMR studentships.

Chest medicine

Training workshops on education

M. Sc. Nursing students from SNDT University regularly undertake Chest Medicine rotation. Besides delivering lectures on important respiratory diseases, bedside clinics, the faculty also acts as “external guide” for their thesis as well for their examinations.

MBBS, Occupational and Physiotherapy students are regularly posted in Chest Medicine as part of their curriculum and undergo training through lectures and bedside clinics.

The Dept. of Chest Medicine & Environmental Pollution Research Centre, Seth G. S. Medical College & K. E. M. Hospital organized 4 workshops with lectures pertaining to use of mechanical ventilation in patients with ARDS following H1N1 infection. This was conducted for district medical officers from various parts of Maharashtra. A total of 24 medical officers attended these training sessions.

M. Sc pharmaceutical medicine are posted for carrying out clinical research in collaboration with our department

Cardio-vascular thoracic surgery (CVTS)

The department offers the M. Ch Course of three years duration in Cardiovascular and thoracic Surgery under the aegis of the Maharashtra University of Health sciences (MUHS), Nashik. We have an intake of 3 students each year. K.E.M Hospital is

very often the first choice of PG Students at the time of registration and this reflects the quantum and quality of training in the department. The residents go through a rigorous training program aimed at attaining basic clinical and surgical skills. The residents rotate through other disciplines like Cardiology, Chest Medicine, Vascular Interventional Radiology and Surgical Oncology at Tata Memorial Hospital. The department has an active teaching program in the form of clinical presentations, journal club, diagnostic catheterization conferences and mortality meetings. The department also runs one year courses in the Extra Corporeal Perfusion Technology. The intake is of three students ever year. The course is awaiting accreditation from the MUHS. The department also gives six months observation and training to the students recommended by the Bakken Institute. Departmental library: 356 books

Clinical Pharmacology

Courses Offered

DM Clinical Pharmacology 2 seats/ year

PhD Applied Biology (Mumbai University) – 5 seats filled

M.Sc. Applied Biology- 5 students registered, 2 students completed

M.Sc. Pharmaceutical Medicine, MUHS - 9 students from 2nd Year

Teaching Programs

- Journal Club (weekly once)
- PG Program/ Seminar (weekly once)

Library

| Total No. of books available in 2009 | Total No. of Journals available in 2009 |
|--------------------------------------|---|
| 185 | 4 |

Dentistry

The Department trains observers who come here for Training management of various dental problems

Dermatology

- Guest lectures delivered by G.S.M.C. K.E.M. staff.

Dr. Uday Khopkar

1. Histopathology of Leprosy at Dermacon 09 at Bengaluru.
2. Dermatoscopic findings & Histopathology in Vitiligo at CME on Vitiligo & Melanocyte Culture at KEM Hospital
3. Differential Diagnosis of Fever with Rash at Goregaon General Practitioners Meet.
4. Prevention of Bed Sores at Neena Foundation, Mumbai.
5. Immunopathogenesis of Psoriasis at conference organized by IADVL Rajasthan Branch.
6. Systemic Therapy of Psoriasis at conference organized by GCDC Chembur.
7. Histopathology of Scleroderma at CUTICON 09, Mumbai.

Dr Vidya Kharkar:

1. Delivered a lecture on history taking, clinical examination, and management of STI to medical officers organized by MDACS
2. As an expert opinion in dept. of pharmacology at Seth G.S. Medical college.

Dr Sunanda Mahajan:

1. Delivered a lecture on history taking, clinical examination, and management of STI to medical officers organized by MDACS.

Dr Siddhi Chikhalkar

1. Delivered a lecture on history taking, clinical examination, and management of STI to medical officers organized by MDACS.
2. Guest speaker on international women's day on the topic of cosmetology procedures.
3. Clinic In-charge of Yuva Kendra and Adolescent health.

Courses, workshops, conferences, C.M.E. programme organized by department. Title, date, in collaboration/ funding from other organizations

1. IADVL Clinical meeting at JMLT Hall in KEM hospital in June 2009.
2. CME on Vitiligo and Melanocyte Culture in collaboration with Institute for Integrative Biology and Genomics, New Delhi at KEM Hospital in November 2009.

Courses, workshops, conferences, C.M.E. programs attended:

1. Dr Uday Khopkar, Dr Vidya Kharkar, Dr Sunanda Mahajan, Dr Siddhi Chikhalkar, Dr Bhavana Doshi attended CME and workshop of 37th national IADVL conference 09 at Bangalore on 6-7th January 2009.
2. Dr. Rameshwar attended the 2nd National Conference on HIV in Jan 09.
3. Dr.Vidya Kharkar, Dr.Sunanda Mahajan, Dr. Siddhi Chikhalkar conducted supervisory visits to different STI centres in Mumbai as resource person.
4. Dermatosurgery Workshop organized by IADVL Maharashtra Branch at RGMHC, Thane in Mar09 attended by Dr Uday Khopkar, Dr Vidya Kharkar, Dr Sunanda Mahajan, Dr Siddhi Chikhalkar, Dr Bhavana Doshi, Dr.Rameshwar, Dr Dipti , Dr Gaurav Garg, Dr Rashmi, Dr Nilam.
5. Post graduate lecture series arranged by IADVL Maharashtra branch at Sion attended by , Dr Uday Khopkar, Dr Vidya Kharkar, Dr Sunanda Mahajan, Dr Siddhi Chikhalkar, Dr Bhavana Doshi, Dr.Rameshwar, Dr Dipti , Dr Gaurav Garg, Dr Rashmi, Dr Nilam, Dr Sachin.
6. Dr. Rashmi, Dr. Nilam, Dr. Gaurav Garg, Dr. Bhushan, Dr. Sachin, Dr. Sandeep undergone STI Training by MDACS.
7. Dr. Vidya Kharkar, Dr.Sunanda Mahajan, attended BEST OF EADV, INDRA 09 at Mumbai on 30 August 09.
8. Dr. Vidya Kharkar, Dr.Sunanda Mahajan attended Fotocon 09 national conference held at Bangalore from 23-25 Oct.
9. CME on Retinoid use in Acne at, Mumbai in Oct. 2009 attended by Dr. Gaurav, Vijay, Rameshwar, Sarika , Rashmi, Bhushan, Dr Gaurav Garg, Dr Sachin.
10. Annual conference of Maharashtra IADVL, CUTICON 2009 held at Mumbai in Nov 09, attended Dr Uday Khopkar, Dr Vidya Kharkar, Dr Sunanda Mahajan, Dr Siddhi Chikhalkar, Dr Bhavana Doshi, Dr.Rameshwar Gutte, Dr. Gaurav Gupta, Dr.sarika ,Dr.Vijay ,Dr.Prajact, Dr.Gaurav Garg, Dr. Bhushan ,Dr. Rashmi, Dr.Nilam,Dr.Viral,Dr.Sanseep
11. Conference on Occupational Dermatitis at Bangalore on 21-22 nov.09 attended by Dr Gaurav Garg and Dr Bhushan Madke.

Endocrinology**Courses offered, intake for the current year**

| Course | Annual Intake |
|--------------------------|---------------|
| DM (Endocrinology) | 3 |
| Diploma in Diabetology | 4 |
| Ph. D (Applied Biology) | 4 |
| M. Sc. (Applied Biology) | 1 |

In addition, the department participates in the training of students registered for M. Sc. (Pharmaceutical Medicine) course
The Departmental Library has 156 books

Forensic Medicine

- a. February 2009 – 7 (seven only)
 - b. August 2008 -- 178 (one hundred & seventy- eight only)
TOTAL --185
- II MBBS examinations of the MUHS, Nashik
- a. held in December 2008 -February 2009
 - i. No of candidates sent up : 173 (one hundred seventy- three only)
 - ii. No of candidates passed : 172 (one hundred & seventy- two only)
 - iii. No of candidates failed : 01 (one only)
 - iv. Percentage of passed candidates : 99.42
 - v. No of distinctions : 32 (18.49%)
 - b. held in May-June 2008
 - i. No of candidates sent up : 07 (seven only)
 - ii. No of candidates passed : 06 (six only)
 - iii. No of candidates failed : 01 (one only)
 - iv. Percentage of passed candidates : 85.71

Library

82 standard & reference textbooks + 4 journals

Gastroenterology

Courses offered and intake for the Current year:

DM Gastroenterology; 2 students

General Surgery

The department trained three international observers. It also trains fellows in Laparoscopic surgery for a certificate course recognized by the Maharashtra University of Health Sciences (MUHS).

Hematology

Approval from the World federation of Hemophilia, for recognition of the Department of Hematology & ITH as an International Hemophilia Training centre (IHTC),

Medicine

- The department participates in training of M. Sc. (Pharmaceutical Medicine) by providing them guidance for research projects. Twenty-nine International Observers and Elective Trainees were trained
- The department and its faculty members offered training to four batches of 6-8 District Medical Officers posted for Medical Intensive Care Unit (MICU) rounds in past 3 months as part of swine flu Management Training Program, organized by Director (ME & MH) familiarize them in critical care.

New courses added and intake:

One year Fellowship in critical care with an intake of two students per year was started in August 09. The course is recognized by the Maharashtra University of Health Sciences (MUHS) and an

4) Library: MICU library stocks books pertaining to Medicine, infection & critical care.

Microbiology

HIV

- Training of laboratory technicians on collection of dried blood spot for implementation of HIV PCR for early infant diagnosis (EID).
- "EQAS in HIV" – Training workshop for Laboratory technicians in collaboration with MDACS.
- STI/RTI training workshop for laboratory technicians in collaboration with MDACS.
- Training of Nurses on HIV/AIDS
- Dr Supriya Paranjape & Dr Shashir Wanjare were resource persons for STI/RTI training workshop for Nurses and Laboratory technicians conducted by MSACS .

Infection Control

- Point of care training programme for all class IV employees on hand hygiene.
- Point of care training to health care providers of intensive care units on preventing catheter related blood stream infections (CR-BSI), surgical site infections (SSI) and ventilator associated pneumonia (VAP).

Postgraduate

- 3 students registered for M.D (Microbiology) during the year (full capacity). Pass percentage at M.D examination during the year 75%.
- One student joined the Ph. D program & one student completed M.Sc.

Neonatology

I. *Programs organized:*

1. Workshops in Kangaroo Mother Care for doctors & occupational therapists in May June 2009
2. Inaugural function of World Breastfeeding Week 2009 on 3rd Aug, 09 in collaboration with Dept. of PSM & Mumbai Breastfeeding promotion Committee
3. In Service Training Program in Lactation management for staff nurses & resident doctors on 4th & 5th Aug, 09 in collaboration with Mumbai Breastfeeding Promotion Committee (MBPC)
4. Seminar on Lactation Management for student nurses on 12/8/09 in collaboration with Mumbai Breastfeeding promotion Committee.
5. Lecture series (10 sessions) in Research Methodology from 23/7/09 to 1/10/09.

Workshop in Kangaroo Mother Care in collaboration with National Neonatology Forum Mumbai on 22/12/09

International Observers: The department trained two clinical psychologists from Colombia, South America in Kangaroo Mother Care

Courses offered and intake for the current year

| Courses offered | Annual Intake | Result |
|-------------------------------|---------------|--------------------------------------|
| DM (Neonatology) | 1 | 100% |
| IAP Fellowship in Neonatology | 2 | Newly started course, Exam in May 10 |

New courses added and intake for the current year:

MUHS Fellowship in Neonatology: The first department to start such a course.

Library: 178 books

Nephrology

Department of Nephrology is recognized for DM nephrology, applied biology and for M.Sc., Ph.D. by research.

| Course | Annual Intake | Percentage of students passed |
|--------------------------|---------------|-------------------------------|
| DM (Nephrology) | Two | 100% |
| M. Sc. (Applied Biology) | Two | ongoing |
| Ph. D (Applied Biology) | Three | ongoing |

Neurosurgery

International and national observers attend neurosurgical services: The Department has a Microneurosurgical laboratory for anatomical dissections, the only one of its kind in Western India. It is in great demand. The laboratory is recognized by Neurological Society of India and World Federation of Neurosurgical Societies (WFNS). The Department has 4 recognized 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

The School of Nursing, K.E.M. Hospital is conducting a 3 ½ years revised G.N.M. Diploma course with 6 months Internship.

Total numbers of Students: 1st year: 92 students, 2nd year: 69 students; 3rd year: 86 students and Interns: 72 The 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 2009 | 2 nd yr G.N.M. Exam June – 2009 | 3 rd Yr G.N.M. Exam July – 2009 | Internship Exam Jan -2009 |
|----------------------|--|--|--|---------------------------|
| Candidate Appeared | 70 | 83 | 72 | 81 |
| Distinction | -- | 4 | 4 | 6 |
| 1 st Div. | 33 | 39 | 51 | 60 |
| 2 nd Div. | 31 | 39 | 13 | 15 |
| Pass | 3 | 1 | -- | -- |
| Fail | 3 | -- | 4 | -- |
| Total Passed | 67 | 1 | 72 | 81 |
| Percentage | 95.71% | 100% | 94.44% | 100% |

Obstetrics and Gynecology

No. of Foreign students who were trained in the Department: 16

The total holdings in the Departmental Library: Books: 392 and Journals: 107

Occupational therapy

Courses offered, Intake for the current year and Results.

1. *B. O.Th.* : 4 1/2 years' course.

Intake capacity: 40 Seats.

2. *M.O.Th.*: 3 years' course.

Intake capacity: 20 Seats.

Externship: 6 months duration for students from colleges affiliated to MUHS.

Observership: 1 month duration in the field of interest.

Intake for the Current Year:

| S. No | Year | October Batch | Regular Batch |
|-------|----------------|---------------|---------------|
| 1 | First B.O.Th. | 09 | 35 |
| 2 | Second B.O.Th. | 08 | 18 |
| 3 | Third B.O.Th. | 08 | 14 |
| 4 | Fourth B.O.Th. | 15 | 22 |
| 5 | Interns | 04 | 19 |
| 6 | M.O.Th. - I | - | 09 |
| 7 | M.O.Th. - II | - | 13 |
| 8 | M.O.Th. - III | - | 13 |

Results:

| S. No. | Year | Percentage of Passing |
|--------|----------------------------|-----------------------|
| 1 | First B.O.Th. | 65% |
| 2 | Second B.O.Th. | 70% |
| 3 | Third B.O.Th. | 100% |
| 4 | Fourth B.O.Th. | 95% |
| 5 | M.O.Th. - III (Final Year) | 75% |

Library Holdings

60 Journals Books: 371

Ophthalmology

MBBS, DOMS, MS Training

Orthopedics

Academic activities:

The department has a full-fledge training program for M.S. Orthopaedics, which is recognized by the University of Mumbai and MUHS (Maharashtra University of Health Science) Nashik. It is also recognized by the Medical Council of India (MCI) and National Board of Examination, New Delhi to train DNB Orthopaedics candidates.

Actual

Pathology

- MD Pathology course - 8 students per year.
- Observer in Pathology Post Graduate students doing MD pathology or DNB pathology from Holy Spirit Hospital - 6 students, Somaiya Hospital - 2 students and from Gulbarga - 3 students.
- MD Pathology in Tata Memorial Hospital - 6 PG students in Pathology for 2 months each.
- Observers in pathology laboratory - students doing B.Sc. Microbiology and Paramedical courses at various colleges all over the city, Medical Laboratory Technology courses (CMLT) at various hospitals. Over 100 such students per year doing above mentioned courses came as Observers in the various laboratories in the Department of Pathology for variable period ranging from 2 weeks to 1 year.
- SNMT Nursing students lecture series taken by teaching staff of Department of Pathology - 18 lectures.
- Post Graduate courses for DMLT students (10) conducted by MUHS.
- 1 Research fellow doing Cytopathology course for the 1 year.

Pediatric Surgery

Fellowship course in Pediatric Minimal Access Surgery (Total 2 seats)

Pediatrics

- There have been more than 25 presentations at State and National level conferences and more 15 publications from the department.
- Foreign students training and supervision.
- Visits by foreign faculty members
- Asthma Workshop: Inhalers, spacers, mask, nebulisers, PEFR, Spirometry, Pulse Oximetry, 28.01.2009 – Pediatric Seminar Room, Ward 2
- Criti-care workshop: Rational Antimicrobial use in Pediatric ICU (with Depictive cases).
- Guest lecture by Dr. Priya Kishnani (Director, Metabolic Clinic, Assoc.Professor in Pediatrics, Duke University, Medical Center, Durham NC, USA) on Enzyme Replacement Therapy for Lysosomal Storage Disorders.
- Drawing workshop conducted by Master Himalaya Patkar on 3.06.2009 for admitted patients.
- Certificate of appreciation for the Intra-collegiate Round of 21st IAP Paediatric Quiz for undergraduates at Seth G. S. Medical College, KEM Hospital on 17.07.2009.
- ORS Week Celebration – CME held on 29/07/2009, Tuesday at Seth G.S. Medical College and KEM Hospital, Mumbai.
- “In-service Training Workshop on Breast-feeding & Lactation Management” conducted at KEM Hospital from 4.08.2009 to 06.08.2009.
- Training for Physiotherapy and Occupational Therapy students.
- Teaching programs for B. Sc and M. Sc students.
- M P Bhagat Oration program held on 17.08.2009 Parent Education Workshop on enhancing the quality of life in a Thalassemia family held on 29.09.2009 at Seth GSM College and KEM Hospital, Parel.
- H1N1 Overview and Guidelines: Dr. S. B. Bavdekar, C. T. Deshmukh, K. Lahiri; August 2009
- Pediatric DOTS sensitization CME held on 30.09.2009 at Dept. of Pediatrics, KEM Hospital, Parel.
- Probiotics in GI disorders in children and adults programme on 6th November 2009 Educational grant from Yakult DANONE Yakult Danone India Pvt. Limited
- Dissertation: Formulation of Research Question: Dr. S. B. Bavdekar, PG Lecture
- DOWNS, Dr. M. Muranjan, PG Lecture

Academic Collaborations

- Exams conducted in the department MBBS, DCH, MD of MUHS and Mumbai University.
- MUHS Department of Infectious Diseases, Nashik – MSC Pharmaceutical Medicine, PG degree course affiliated to Department of Pediatric Medicine for Research Project. 2009-2010 3 batches of 12 students

Pharmacology and Ayurveda Research Center:

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 National Hospital & Research Centre (7th September to 1st October 2009)
- Three days lecture and demonstration program on Authentication of Herbal Medicine for students of M. Sc Pharmaceutical Medicine, MUHS March 2009 (1st – 3rd March) and November 2009 (18th to 20th November)
- Training of IInd MBBS students for regional and state level Pharmacology quiz by departmental faculty members.

Elective trainees

- The department trained four trainees in conduct of clinical trials and laboratory and experimental techniques.
- The department also provided guidance to under-graduate students for research projects (KVPY and ICMR)

Workshops / CMEs / Guest lectures organized

- Dr Ranjit Roychaudhuri delivered UK Sheth Oration on “Enhancing Access to Quality Medicine – Delhi Experience” on 23rd January 2009.
- Fourth Summer Training Program for undergraduate students of science faculty (Biotechnology, Microbiology, Life Science, Zoology and Botany) (n = 22) was conducted from (5th May 2009 to 15th May 2009) to expose them to various aspects of animal and clinical research, and laboratory techniques.

Courses Offered

| | Courses Offered | Intake for the current year | Results |
|---|---|-----------------------------|---|
| 1 | MD Pharmacology | 5 | 4 PG students completed and 1 received placement in leading pharmaceutical organization and 3 opted for career in academics(2 in Seth GSMC) |
| 2 | Summer Training Program for undergraduate students of science faculty | 22 | - |
| 3 | PhD Applied Biology | 1 | 1 completed the work and is in process of submitting synopsis |
| 4 | M.Sc. Applied Biology | 1 | 2 completed the work and is in process of submitting synopsis |

Library: Current holding 745 books. Around 40 books were added this year in ARC library and Dept. together.

Physiology

- Dr. Munira Hirkani is pursuing 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, lecture were also held for FYBOTH/FYBPTh, third year OT, Bombay Hospital & Hinduja Hospital and SNDT nursing students, Tata Radiotherapy, Radiology technicians of the Garware institute on request.

Physiotherapy

Courses Offered Bachelors in Physiotherapy – Four years + Six months of Internship (Intake capacity – 40) Masters in Physiotherapy – three years

Specialty

- PT in Musculoskeletal Sciences
- PT in Neurosciences
- PT in Cardiopulmonary Sciences
- Intake capacity – 20
- Library Books - 500

Preventive and Social Medicine

International observers and elective trainees :

| | Courses offered | Intake | Results |
|---|---|--|------------------------------|
| 1 | M.B.B.S. | 175 | |
| 2 | Diploma in Public Health | 2 | 100% |
| 3 | M.D. (PSM) | 14 | 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 | 03 | 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 | MSW – Vimala College – Thrissur Kerala | Field posting & training by PSM Dept. | |

Teaching and Training at Malvani Health Centre:

- Training of first year & third year nursing students of Bhagwati & Cooper hospital about community medicine.
- Seminars conducted for every batch of interns on topics like RNTCP, STI & HIV/AIDS, Malvani UHC, UIP & cold chain.
- CME for RMOs twice a week on case studies & presentations, environmental study, social case presentation, biostatistics, important topics like health economics, management, Communication skills, team building & personal development.

Internship:

For the year 2009, the Department of PSM, Seth G.S. Medical College trained 169 regular batch interns, 21 casual batch interns, 42 Externs from Institutes within India and 15 Externs from Institutes outside India (In all 190 interns & 59 externs under MUHS). Two Mumbai University interns were also trained this year. The Orientation programs for the Regular and

casual batches of interns were also organized.

Interns participated as members of the Medical team in various outreach activities like School Health Check– up program, Pulse Polio Immunization programs, Ganapati Visarjan, Political rallies, Maha pari-nivaran Din, Ashadi Ekadashi Mela and National level sports activities.

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

Surgical Gastroenterology

International Observers and Elective Trainees: One qualified surgeon from Nagpur Medical College was trained for a period of two months

Courses offered and intake for the current year

DNB GI-Surgery with third student enrolled this year.

Fellowship course in MAS – June 2009 –under MUHS: Three students have been enrolled. Staff representation in university committees, bos, and other academic bodies:

- DR RD Bapat: Vice Chancellor-Mahatma Gandhi Medical University.
Dr Avinash. N. Supe
- Course Director- GSMC FAIMER Regional Institute
- President elect and EC member “International hepatobiliary Association” Indian section
- Scientific Committee member “ International HPB Association, IASG, ISG
- Board of studies member, Faculty “ MUHS
- Co-ordinator: Department of Medical education. MUHS
- Governing Council member “ Maharashtra Chapter of ISG
- Faculty to MHA- TISS
- DNBE, MCI inspector for GI Surgery
- Member of Committee for revision of MBBS, MS, DNBE GI surgery curriculum “ Ministry of Health”, MCI, NBE

Training Workshops on Education Conducted and nos of Participants:

Table: List of Workshops conducted by the Department of Gastroenterology Surgery

| No | Workshop title | No. of participants |
|----|--|---------------------|
| 1 | Regional FAIMER course | 20 |
| 2 | Basic Lap training and Cadaveric workshop. | 10 |

Library

The department has started an Electronic Library, the first of its kind in a teaching institute. The library is equipped with the latest educational video CDs and CDs of all the important textbooks. Besides we have online registration for the latest GI Journals.

Transfusion Medicine

- Guest lectures by Dr.Geeta Paranjape, Medical Director, Carter BloodCare, Texas, USA :
 - Granulocyte Infusions on 31/03/2009
 - Neonatal alloimmune Thrombocytopenia on 1/04/2009
 - Blood Transfusion in Clinical Practice on 30/11/2009
- Lectures are taken for second M.B.B.S . students, D.M.L.T. 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 observer ship in the blood bank.
- Technologists take specialized training in ‘Component Preparation and Plateletpheresis’.

The Department trained one observer from Karnataka

- The department conducts training programs for Staff Nurses and Technicians on Blood Bank Procedures and for Clinical residents on ‘Rational Use of Blood and Blood Products’
- The department has well equipped library with the latest books and journals on Blood Transfusion and Immunohaematology.

Urology

Academic activities

The department has a full-fledged training program for M. Ch. residents since 1980 which is recognized by the University of

Mumbai. It is also recognized by the Medical Council of India (MCI) and National Board of Examination, New Delhi to train DNB urology candidates. Many urologists trained here occupy prestigious positions not only in India but abroad also.

- A. *Inter-departmental meetings and Teaching Program* : The teaching program includes regular integrated undergraduate lecture for all the 3 terms and post-graduate teaching schedule for M.Ch. (Urology) students in the form of clinical, case presentation, bed side clinics, ward rounds, uro-nephrology meetings, Journal reviews and operative video session. The departmental teaching activities include, daily morning rounds, grand rounds and periodic specialty clinics and meetings (transplant meet, case discussion sessions, uro-radiology clinics, inter-departmental meeting with Nephrology department, symposium and seminars)
- B. *PG Teaching schedule in collaboration with Mumbai Urological Society* every 3rd and 4th Saturday (1 to 2pm) {Journal Club, Uro-pathology, Symposium / Seminar}
- C. *Medical Education*: We get observers from various centers in India and abroad.
- D. P.G. Teaching :
 - a. Didactic lectures as per University program
 - b. Discussion of thesis work
 - c. discussion of research projects at regular intervals.
 - d. Linical case discussion
- E. Super-specialty Training By Rotation
 - 1. Nephrology : Nephrology dept., K.E.M. Hospital - 1 month
 - 2. Uro-Oncology : Tata Memorial Hospital - 1 month
 - 3. Uro-dynamic study : BYL Nair Hospital - 1 month

Research

Research

Anatomy

Investigator initiated

- A morphometric Study of Hepatic Vasculature on Cadaveric Liver
- The morphology and relations of the ilio-cava junction to aortic bifurcation and lumbosacral vertebrae
- Anatomy of Sciatic Nerve in Gluteal Region and Back of Thigh
- Morphometric study of Bony Landmarks around Cavernous Sinus in Cadavers
- Study of Anatomical Variations of Radial Nerve in Cadavers
- Study of Left Coronary Artery and its Branches in Cadavers
- Study of Popliteal Artery in Cadavers
- Morphometric Study of Dry Human Sacra

Collaborative

- Isolation, Expansion and Transdifferentiation of Mesenchymal Stem Cells from Umbilical Cord Matrix into Endothelial Cells– in collaboration with Department of Pharmacology & Therapeutics & Obstetrics & Gynecology (Department of Biotechnology funded)

Anesthesia

MD dissertations

- Efficacy of modified MPC in the prediction of difficult airway and correlation of it with intubation difficulty scale in pediatric patients (student- K D'souza, guide-S Pandya)
- Comparative study on Postoperative analgesia in lower limb arthroplasty with continuous epidural infusion of 0.125% bupivacaine and two different analgesics- fentanyl and sufentanil (student- R Dwivedi, Guide- S Pandya)
- Changes in haemodynamic parameters, EtCO₂ and O₂ saturation during perioperative period in paediatric laparoscopic surgery (student- P Rajbhoj, Guide- M Garasia)
- Effect of Priming Principle of Induction Dose of Propofol- A randomized controlled trial (student- J Kamble, Guide- B Tendolkar)
- Comparison of rocuronium bromide and vecuronium bromide in neurosurgical patients(student- K Kargirwar, Guide- P Gujjar)
- Comparative study between McIntosh, Miller and McCoy blade with respect to laryngeal visualization of larynx ease of intubation, pressor response and complication (student- P Behera, Guide- RD Patel)
- Anaesthetic management of transcatheter closure of atrial septal defect-a retrospective study(student- B Shashidhar, Guide- N Dave)
- Conscious sedation in patients undergoing non-thoracotomy placement of AICD / CRTD devices- an observational study(student- A Bajaj, Guide- S Umbarkar)
- Comparative study of the effect of 4% lignocaine spray for attenuation of cardiovascular responses to laryngoscopy and intubation in patient who will require elective surgery under general anesthesia with endotracheal intubation(student- B Rathod, Guide- S Lele)
- A prospective randomized controlled trial comparing the efficacy of preoxygenation in 20 degree head up versus supine position(student- T Patol, Guide- S Dave)
- Prediction of difficult endotracheal intubation and incidence among general population undergoing general surgical procedure under general anesthesia-A prospective observational study(student- R Barman, Guide- S Salgaonkar)
- Sensory –motor anesthetic and hypotension after subarachnoid block: combined spinal-epidural versus single shot spinal technique(student – N Agarwal, Guide- S Gvalani)
- Prediction of difficult endotracheal intubation in thyroid surgery- a prospective observational study(student- G Gupta, Guide- P Shroff)
- A comparative clinical study of attenuation of cardiovascular responses to laryngoscopy and intubation employing lignocaine, diltiazem and combination of both lignocaine and diltiazem(student- K Shah, Guide- M Nadkarni)
- Postoperative Analgesic effect of intramuscular Diclofenac versus Intramuscular aceclofenac in patients undergoing laparoscopic cholecystectomy: a randomized double blind trial(student- K patel, Guide- M Buddhi)

- The effects of intravenous granisetron on the sensory and motor blockade produced by intrathecal bupivacaine
- The efficacy and safety of bupivacaine(student- A Tilak, Guide- M Buddhi)
- Clonidine combination versus bupivacaine alone in caudal block in children: A randomized controlled prospective double blind trial(student- V kini, Guide- N Dave)
- Comparative study of malleable stylet versus gum elastic bougie with or without use of cricoid pressure for ease of tracheal intubation(student- D Ruparel, Guide- RD Patel)
- Effect of intravenous clonidine during laparoscopic cholecystectomy(student- H Pawar, Guide- S Gvalani)
- Comparison of USG guided versus conventional IJV cannulation in pediatric patients posted for cardiac surgery(student- P Dalvi, Guide- M Sarkar)
- Influence of resident training on anesthesia induction times(student- P Khobragade, Guide- P Gujjar)
- Comparative study of granisetron versus combination of granisetron and dexamethasone in controlling postoperative nausea and vomiting in patients operated under general anesthesia(student- V Ranveer, Guide- M Nadkarni)
- Use of Intravenous rocuronium priming to accelerate neuromuscular blockade in children(student- R Chandran, Guide- S Umbarkar)
- A comparative study of clonidine versus fentanyl as adjuvants to bupivacaine in spinal anaesthesia for lower limb orthopedic surgeries(student- S Momin, Guide- S Pandya)
- Comparative study of oral premedication in children: Midazolam versus ketamine(student- R Chhabria, Guide- M Garasia)
- A Comparison study of sevoflurane and propofol for LMA insertion in adult patients(student- B Mohanty, Guide-B Tendolkar)
- Comparison of injection rocuronium and injection succinyl choline for intubating conditions and haemodynamic stability(student- S Yelle, Guide- S Lele)
- Comparison of Truview, McCoy and McIntosh laryngoscopes use in patients using cervical spine immobilization(student- B Chakraborty, Guide-S Dave)
- To compare the ease of tracheal intubation facilitated by the gum elastic bougie or stylet while using Truview laryngoscope(student- B Chakraborty, Guide- S Dave)
- Use of Intravenous clonidine for prolongation of spinal anesthesia with 0.5% bupivacaine(student- D Pawar, Guide- P Shroff)

Biochemistry

Guides- SP Dandekar , AM Varadkar, CA Sathe, SA Rane for MSc and Phd students

- Properties and toxicity of small amyloid peptides
- Sperm membrane integrity in male factor indicators and unexplained infertility
- Predictive value of biochemical markers in cardiovascular and renal disorders
- Prediction of ovarian response and enhancement of implantation rates in assisted reproductive techniques (ART).
- Significance of Human seminal plasma Prostatic Inhibin (HSPI) in the patho physiology of some human prostatic diseases.
- Application of HSPI – ELISA technique and other hormones in the study of prostate related diseases
- Study of heavy metals in chronic Renal failure
- Studies in Biochemical Parameters from Breast Milk of Malnourished Mothers.

Cardiology

Industry funded

- 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
- PREDICT (Perceive risk of Ischemia & Bleeding in acute coronary syndrome patients).
- Evaluation of the anti-anginal efficacy and safety of oral administration of ivabradine compared to placebo on top of a background therapy with a calcium antagonists (amlodipine or nifedipine) in patients with stable angina pectoris. A 6-weeks Randomized double-blind parallel-group international multicentre study.
- 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.

- 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.
- Study with an Endothelin Receptor Antagonist in Pulmonary arterial Hypertension to Improve clinical outcome. A multicentre, double-blind, randomized, placebo-controlled, parallel group, event-driven, Phase III study to assess the effects of ACT 064992 on morbidity and mortality in patients with symptomatic pulmonary arterial hypertension
- Randomized, multinational, double blind study, comparing a high loading dose regimen of clopidogrel versus standard dose in patients with unstable angina or non-ST segment elevation myocardial infarction managed with an early invasive strategy.

Investigator initiated

- An international multicentre randomized controlled of intensive insulin therapy targeting normoglycemia in acute myocardial infarction: the RECREATE (Researching Coronary Reducing by Appropriately Targeting Euglycemia) pilot study”.

Chest Medicine

- Asthma prevalence study in school children
- Asthma Prevalence Study has been completed in school going children from standard VIII to X. (1162 students from a total of 6 schools have been included).
- ICMR collaborations - Study of prevalence of auto-antibodies in patients with tuberculosis

Clinical Pharmacology

Govt. Funded projects

- Pharmacogenetics of warfarin to guide dosing and individualizing drug therapy.
- Phase Ib study with CDR134-D123 an anti-diabetic compound from marine source in patients with type-2 diabetes to assess safety, tolerability and efficacy.
- Immunological and metabolic effects of Panchakarma.
- Proof of Safety & Efficacy studies on selected Positive Health Promoters:
 - A Proof of Concept prospective double-blind, placebo controlled, comparative, randomised, parallel group, multi-centric clinical study to evaluate short-term effect of PHP-Aging on the physical and emotional well being of elderly subjects.
 - A Proof of Concept prospective double-blind, placebo controlled, comparative, randomised clinical trial to assess the effects of PHP-Cancer in improving quality of life in patients receiving chemotherapy for treatment of breast cancer.
 - A Proof of Concept prospective double-blind, placebo controlled, randomised, multi-centric study to evaluate the safety and activity of PHP-Diabetes in patients with Type 2 Diabetes mellitus receiving oral anti-diabetic agents.
 - A Proof of Concept prospective double-blind, placebo controlled, randomised, multi-centric study to evaluate the activity and safety of PHP-Diabetes in patients freshly diagnosed with Type 2 Diabetes mellitus.

Investigator initiated Projects

- Pharmacogenetics of immunosuppressants in renal transplant patients (in collaboration with the department of nephrology)
- Drug delivery systems for safety and efficacy of anti tubercular drugs using liposomes and nano particles (ongoing)
- Evaluation of Primaquine pharmacokinetics in the patients of P.vivax and P.falciparum malaria.(ongoing)
- Audit of therapeutic drug monitoring of Anticonvulsants at tertiary referral centre
- Evaluation of the prevalence of clinical factors associated with off label use of drugs used in oncology. (ongoing)
- Study of Ethics committee approval letters: compliance to schedule Y/ICMR 2006
- To evaluate the factors/reasons that motivate the Indian parents to consent for research – A questionnaire study.

Sponsored projects

- A Double-blind, Randomized, Placebo Controlled Trial to evaluate the safety and tolerability of the single dose of advanced Odomos spray TM in children. (Completed)
- Comparative evaluation of efficacy and safety of primaquine SR Tablets Vs Primaquine conventional Tablets in the Prevention of Relapse of Plasmodium Vivax Malaria. (Ongoing)
- A double-blind, Randomized Placebo controlled trial to evaluate the safety and tolerability of single dose of advanced Odomos naturals cream in children. (ongoing)

- Open label. Randomized, Dose Escalation Phase 1 study in Healthy Adult Volunteers to Evaluate the safety and Pharmacokinetics of a Human Rabies Immuno Globulin Administered in conjunction with Rabies Vaccine (RABIVAX) - (ongoing)
- Pharmacokinetic study of injection colistin after Intravenous administration of injection colistimethate sodium in subjects with nosocomial infection caused due to MDR gram negative bacilli (Ongoing)

Thesis

- Assessment of Cytochrome P450 2E1 genotype and relation to susceptibility to anti tuberculosis drug induced hepatotoxicity in patient with tuberculosis at tertiary referral centre. (ongoing)
- Characterization of thiopurine methyltransferase (TPMT) gene polymorphism in normal, healthy, Indian volunteers. (ongoing)
- Evaluation of the incidence and risk factors of hyperlactatemia and lactic acidosis in patients receiving Highly Active Anti Retro Viral Therapy in a tertiary referral centre. (ongoing)
- Evaluation of Cytochrome (CYP2E1) activity in healthy, adult Maharashtrian subjects to serve as an indicator of INH induced hepatitis. (completed)
- Evaluation of the activity of cytochrome CYP2D6 in normal, healthy Western Indian population by Phenotyping.

CVTS

- Development of an experimental model employing vascular endothelial cells for its potential use in Tissue Engineered Conduits” (Submitted to DBT, Govt. of India)
- 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 revascularisation.
- Randomized study to assess efficacy of three different ablative procedures to treat atrial fibrillation in patients with valvular heart disease

Dermatology

Completed

- Phase-II double blind, randomized study of molecule LLL-3348 in the treatment of chronic plaque psoriasis by Lupin Pharma.
- Randomized, double blind, comparative trial of efficacy of Halobetasol Vs Clobetasol in treatment of Lichen Simplex chronicus
- Epidemiology and clinical profile of multiple nail dystrophies
- Clinicoepidemiological study of Atopic dermatitis

Ongoing

- 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 CO₂ laser in Keloid management
- Dermatoscopy of Seborrheic Dermatitis and Androgenic Alopecia
- 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.
- Efficacy of sulfasalazine in patients of alopecia areata.
- Usefulness of Phototrichogram in diffuse type of hair loss .
- Usefulness of Phototrichogram in androgenic alopecia.

EMS Medicine

- Thrombolysis in STEMI
- Outcome of arrhythmias in EMS ICU

Endocrinology

Academic/Investigator initiated

- Molecular Genetics in Vit D metabolism & Bone Mineral density study.
- Phenotype Genotype and Radiological correlation of growth hormone deficiency.
- -Efficacy of Stereotactic conformal radiotherapy (SCRT) compared to conventional radiotherapy in minimizing late sequelae in children and young adults with brain tumors
- Genotype-Phenotype Correlation In Indian Patients With Pheochromocytoma/ Paranglioma”.
- Genotype, Phenotype And Radiological Correlation Of Idiopathic hHypogonadotrophic Hypogonadism
- Evaluation of Salivary Cortisol in the diagnosis of Cushing syndrome.
- Level of 25 Hydroxy Vitamin D in young Healthy Indian Population and its relationship with Parathyroid Hormone
- Treatment of hypogonadism with testosterone in type 2 diabetes mellitus.
- To study the prevalence of thyroid dysfunction in patients on Amiodarone at a tertiary referral centre

Industry funded

- GENERATIONS Study Ref.: Protocol H4Z-MC-GJAD titled: “Effects of Arzoxifene on Vertebral Fracture Incidence and on Invasive Breast Cancer Incidence in Postmenopausal Women with Osteoporosis or with Low Bone density
- PPD1: Protocol No. 01-05-TL-322OPI-001 A Multicenter, Randomized, double blind and Placebo-Controlled Study to Determine Efficacy and Safety of the combination of SYR-322(SYR110322) and Pioglitazone HCL (ACTOS) in Subjects with Type 2 Diabetes
- Protocol: MK-0822-018-01 Title: A Phase 3 Randomized, Placebo – Controlled clinical trial to assess the safety and efficacy of Odanacatib (MK-0822) to reduce the Risk of Fracture in Osteoporotic Postmenopausal Women Treated with vitamin D and calcium.
- SIBA Study : Trial ID NN1250-3668, “A 26 week randomized, controlled, open label, multi centric three arm, treat to target trial comparing efficacy and safety of three different dosing regimens of either Soluble Insulin Basal analogue (SIBA) or insulin glargine with or without combination with OAD treatment, in subjects with type 2 diabetes mellitus” Phase: 3a study.(completed)
- LIRAGLUTIDE Study A Randomized, Double Blind ,Multiple Dose Study In subjects with Diabetic Nephropathy To Evaluate The Effect Of RWJ-676070 on albuminuria, when added to Angiogenesis-Converting Enzyme inhibitor and/ or angiotensin II Receptor Blocker.
- SIBA Study : Trial ID – NN 1250-1836 : Phase 2 trial : A 16 week randomized, open labelled, four-armed, treat-to-target, parallel-group trial comparing SIBA D once daily, SIBA E once daily, SIBA D Monday, Wednesday & Friday and Insulin glargine once daily, all in combination with metformin, in subjects with type 2 diabetes failing on OAD treatment.

Collaborative

- To formulate Registry of people with Diabetes with Young Age at the Onset in Western India (ICMR)
- A genetic analyses of polycystic ovary syndrome with special emphasis on genes involved in insulin resistance
- Study of PON1 gene variants and its association with cardiovascular disease risk factors in women with PCOS
- Efficacy of Stereotactic conformal radiotherapy (SCRT) compared to conventional radiotherapy in minimizing late sequelae in children and young adults with brain tumors (SCRT Trial)(Tata Memorial Centre)

Gastroenterology

- AST and ALT levels in normal healthy volunteers
- Anorectal manometric parameters of healthy adult volunteers
- Intestinal permeability in Portal Hypertension
- Histopathology in patients with acute on chronic liver failure
- Anticoagulation in patients with hepatic venous outflow tract obstruction
- Application of newer classification of achalasia cardia

General Surgery

- Laparoscopic cardiomyotomy in patient with achalasia cardia and cirrhosis of liver
- Thoracoscopic extraction of impacted denture
- Laparoscopic total colectomy for benign pancolonic disorders
- Laparoscopic hernia repair prospective study

- Antibiotic study in diabetic foot
- Trial conducted on diabetic foot patients
- Preoperative diagnosis & excision of IVC

Hematology

- Clinical and lab 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)

Medicine

AR Pazare

- 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 TRUVADA™TM
- Prevalence of lactic acidosis and hyperlactetemia in patients on antiretroviral therapy (NIH funded)
- Prevalence of HLA amongst HIV positive treated vs. untreated patients. (ICMR funded)
- Prevalence of HLA amongst HIV positive patients who developed Nevirapine reaction vs. patients who did not have any reaction to Nevirapine (ICMR funded)

ND Karnik

- 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 (in conjunction with Clinical Pharmacology and Serum Institute of India Ltd)
- 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
- Adverse events in MICU - ICMR project
- Hemodynamic monitory using pulmonary artery catheter in patients of leptospirosis with ARDS - ICMR project.

AG Rajadhyaksha

- Study of Microvascular complications in newly diagnosed DM and short term follow up with treatment.
- Hyperlipidaemia, Clinical profile and 1 year follow up with therapy.
- Cawdit IMT and its correlation with disease activity with RA.
- Cardiovascular involvement in patients with SLE.

RN Sahay

- study of young thrombosis patients to profile the etiology and clinical profile.

SB Salagre

- A study of Young Hypertensive subjects attending Tertiary Care Hospital
- A study of left ventricular function assessment in Hypertension Subjects.
- A study of ABPI and its correlation with diastolic Blood Pressure, Dyslipidemia and anthropometric measures.
- A study of prevalent of Hypertensive crises and their relation to diastolic Blood Pressure and Anthropometric measure.

A Sonawale

- OA- Clinical profile and response to vacuum therapies.
- Foot deformities in RA
- GBS clinical profile and cost effectiveness of Plasmapheresis Vs IvIg.

Microbiology

- The RF/RHD registry successfully completed the second year and has been granted an extension of a further six months.

- The collaboration with Queensland Institute of Medical Research, Brisbane on “Molecular Characterization of Group A and G Streptococcus” is continued.
- HIV subtypes in serodiscordant couples was successfully completed in collaboration with NARI, Pune.
- Real time PCR for the detection and drug susceptibility testing of MDRTB, has been standardized under the collaborative project with the Department of Immunology and Laboratory Medicine, BARC .

Neonatology

- Intrapartum oropharyngeal and nasopharyngeal suctioning in neonates born with meconium stained amniotic fluid : Indian Scenario.
- Effect of protein supplementation on growth in very low birth weight infants.
- Knowledge, attitude & practice of Kangaroo Mother Care amongst family members practicing it.
- Association of HLA with HIV infection in collaboration with National Institute for Research in Reproductive Health Indian Council of Medical Research.
- Neurodevelopmental assessment of very Low Birth Weight infants at one year of corrected age using Griffith's mental developmental Scales.
- 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.

Nephrology

On going Projects:

- A Randomized double blind, placebo controlled, Parallel – group, multinational safety and Efficacy Trial of 100mg, 300mg and 900mg of Abetimus sodium in Systemic Lupus Erythematosus (SLE) Patients with -History of Renal disease.
- Evaluation safety of Darbepoietin in Renal Anaemia.
- Quality of Life & Renal function in Renal donors.
- Phase contrast microscopy in evaluation of haematuria.
- “Darbepoietin safety and efficacy in treatment of anaemia of C.K.D.
- Cinacalcet and calcitriol in treatment of secondary hyperparathyroidism of C.K.D.

Neurology

- 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 - (Johnson and Johnson)
- Prospective, multicentre, open label, clinical study to evaluate efficacy and safety of R- TPR-011 in patients with multiple sclerosis.(Reliance).
- 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). (PRA).

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 and gynaecology

Dr. S. V. Parulekar

- Study of laparoscopy for chronic pelvic pain.
- Study of Endometrial Thermal Balloon ablation in abnormal uterine pain.

Dr. Niranjana Mayadeo

Ongoing Project

- A study of Simple Behavioral Intervention to reduce Episiotomy rates
- Prevalence of Infertility In India
- Phase III-Multicentre Clinical Trial With Subdermal Single- Rod Contraceptive Implant – Implanon.
- Phase IV Multicentric Study with Centchroman

Projects sanctioned by Ethics, to be started

- Introduction of medical methods of safe abortions at district hospitals of India,
- A Study of Teenage Pregnancy and its Outcome, Projects sent by ICMR, approved by Director, Ethics clearance pending
- Tranexamic acid for the treatment of postpartum haemorrhage: an International, randomized, double blind, placebo controlled trial.
- Pre – Programme Introduction of Cyclofem and Noristerat injectable Contraceptives through District Hospitals and NGO clinics.
- Baseline data for estimating prevalence of obstetric fistulae in India.

Dr P.Y. Samant

Ongoing Research project:

- Clinical collaborator with NIRRH for project on association of host Immunogenetic Factors with HIV Infection

Dr. A.R. Chauhan

- Sub-investigator for a multicentric international project on “Effects of Arzoxifene on vertebral fracture incidence and on invasive breast cancer incidence in postmenopausal women with osteoporosis or with low bone density” (*Generation Study*)
- Principal investigator with NIRRH for project on “Cryopreservation and in vitro culture of primordial follicles from human ovarian tissue
- Co- investigator with National Institute of Immunohaematology for project To establish normal ranges for lymphocyte subsets in cord blood obtained from aborted fetuses of 15-20 weeks gestation which can be utilized for the antenatal diagnosis of primary immunodeficiency disorders

Hemangi Chaudhari

- Clinical collaborator with NIRRH for project on Purification of immune related proteins from pooled human amniotic fluid collected at term
- Clinical collaborator with NIRRH for project on Association of Chlamydia trachomatis infection and host immunogenetic factor in manifestation of reproductive complications
- Clinical collaborator with NIRRH for project on Embryo loss due to epigenetic abnormalities in the male germ line
- Clinical collaborator with NIRRH for project on ‘Association of bacterial vaginosis with preterm delivery’

Dr. Himangi S. Warke

- Sub-investigator for a multicentric international project on “Effects of Arzoxifene on vertebral fracture incidence and on invasive breast cancer incidence in postmenopausal women with osteoporosis or with low bone density” (*Generation Study*)
- Clinical collaborator with NIRRH for project on “Purification of immune related proteins from pooled human amniotic fluid collected at term”
- Clinical collaborator with NIRRH for project on “Association of Chlamydia trachomatis infection and host immunogenetic factor in manifestation of reproductive complications”
- Clinical collaborator with NIRRH for project on “Embryo loss due to epigenetic abnormalities in the male germ line”
- Clinical collaborator with NIRRH for project on ‘Association of bacterial vaginosis with preterm delivery’

Occupational Therapy

Ongoing projects

- Exploratory study to evaluate tolerability, safety and activity of ashwagandha in healthy volunteers
- Comparative Study for Lymphedema in Filariasis: Between Heat Therapy and Pneumatic Compression Therapy
- Effect of conventional occupational therapy and yoga in chronic low back pain.
- Efficacy of neutral wrist and metacarpophalangeal splint in carpal tunnel syndrome

- To study the effect of play in conjunction to developmental support programme in children with developmental delay.
- To study the effects of specific visual stimulation in conjunction to developmental support program in infants with visual impairment.
- To study the effectiveness of treadmill training in conjunction with conventional occupational therapy on mobility of chronic stroke patients
- To study the effectiveness of balance training and resistive exercises versus resistive exercises in diabetic peripheral neuropathy
- To study the effects of kinesio-taping as an adjunct to occupational therapy in low back pain
- To study the effects of kinesio-taping as an adjunct to occupational therapy in low back pain
- A study to compare the effect of conventional exercise therapy versus balance exercise therapy in patients with knee osteoarthritis.
- To study the effectiveness of occupational therapy for burned hand: A comparison between modified functional cock up splint and conventional cock up splint
- Effect of Electromyographic Biofeedback training for shoulder muscles in Frozen Shoulder Syndrome
- To study the effectiveness of Occupational Therapy in post traumatic elbow stiffness: A comparative study between static elbow splint versus static progressive elbow splint.

Orthopaedics

Dr. S.K. Srivastava

Biomechanics of Rigid Kyphotic curves in its correction.

Dr. M.M. Desai

On going:

- On OPD – for closed fracture
- Tibia – global trial in phase II.

Pathology

- Collaborative project conducted by Dr. AM Patwardhan, Professor & Head, Department of Cardiothoracic Surgery and Dr. Divate, Department of Pathology entitled “Development of an experimental model employing vascular endothelial cells for its potential use in tissue-engineered conduits” - sponsored by the Department of Biotechnology, Government of India.
- “Study of the effects of Ramadan fasting on some physiological and biochemical parameters in young healthy medical students between age group of 18 to 28 years” collaborative - Departments of Physiology (Dr. Daimi & Dr. Fadia) & Pathology - CVTC Laboratory 315 (Dr. Thanekar & Dr. Divate).
- Project on periampullary carcinoma in collaboration with HPR India by Dr. Toshi Mishra and Dr. Amita Joshi.
- Project on morphologic changes in liver biopsy in pts. of acute on chronic liver failure by Dr. Amita Joshi and Dr. Rachana Chaturvedi along with Gastroenterology Department.
- Project on Cryopreservation & tissue culture of Human Ovaries - Dr. Amita Joshi with team from IRR.
- Effects of Arzoxifene on vertebral fracture incidence and on invasive breast cancer incidence in post-menopausal women with osteoporosis or with low bone density (Collaborating with Department of Endocrinology) - Dr. Leena Naik and Dr. Gwendolyn Fernandes.

Pediatrics

Dr. Keya Lahiri

- Principal Investigator: Indian Council of Medical Research – Task force on inborn metabolic diseases project on “Newborn Screening for Congenital Hypothyroidism & Congenital Adrenal hyperplasia: A Multicentric Study”.
- Clinical & Laboratory spectrum of Malaria
- Study of diagnostics and therapeutics in lysosomal storage disorders at a tertiary care centre
- Clinical co-relation and evaluation of spirometry in children with asthma

Dr. CT Deshmukh

- Adrenal Gland Function in children with catecholamine resistant septic shock.
- Analytical study of children on directly observed treatment short course in a tertiary care centre.
- Study of Health related Quality of Life of Patients with Rheumatic heart disease

- MRI in pediatric Cardiac disorders
- Comparison between daily chest Xray and as needed Xray chest in children who are mechanically ventilated.
- Screening the Household Pediatric Contacts of Newly Diagnosed Adult Cases of Pulmonary Tuberculosis
- Pattern of packed cell requirement in Pediatric Intensive care unit
- Antimicrobial sensitivity pattern in Bacterial nosocomial infections in Pediatric Intensive care unit
- Assessment of immunization compliance and adverse event following immunization
- Analytical study of severe malaria in a tertiary care pediatric intensive care unit
- Rheumatic fever/ heart disease ICMR prevalence study

Dr. SB Bavdekar

- Determining Utility of Performing Lumbar Puncture routinely in children aged up to 18 months suspected to have febrile convulsions
- Study of Quality of Life of Parents of children with thalassemia major .
- Adverse events associated with selected off-label drugs used in Pediatric Wards
- Ventilator-associated pneumonia: role of inflammatory markers in prognosis
- A Double-blind, Randomized, Placebo Controlled, Trial to Evaluate the Safety and Tolerability of single dose of Advanced Odomos Spray™ in Children
- A Descriptive Observational Study to Identify Adverse Events in Pediatric General Ward for Causality Assessment
- Screening the Household Paediatric Contacts of Newly Diagnosed Adult Cases of Pulmonary Tuberculosis
- Determination of nature and frequency of Adverse Drug Events during and following blood transfusions in children with thalassemia
- Determination of predictors of mortality in children with malaria
- A Double-blind, Randomized, Placebo Controlled Trial to Evaluate the Safety and Tolerability of single dose of Advanced Odomos Naturals Cream™ in Children
- A study to assess reasons why parents consent for children to participate in clinical trials
- Review of Informed Consent Documents submitted for initial review for statements related to compensation for injured research participants

Dr. RK Vaswani

Completed

- Behavioral assessment of children on long term steroid therapy.
- Health related quality of life in children with epilepsy.

Ongoing:

- Behavioral functions in school going children with epilepsy.
- Role of Therapeutic drug monitoring of anticonvulsants in management of children with epilepsy.

Dr. MN Muranjan

- "Determination of beta galactosidase and arylsulfatase A from cultured human fibroblasts: Comparison with enzyme activity in human leukocytes" [MSc thesis]
- "Incidence & economic burden of adverse drug reactions in the Pediatric intensive care unit"
- "Birth defects at an urban tertiary care public hospital: Economic burden to the health care system"

Dr. M.S. Tullu

- Co-investigator for study No. CP/10/09 entitled "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" (Cipla Ltd.).
- Behavioral Screening Of Children Attending Peadiatric Department Of A Tertiary Care Teaching Hospital.
- 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.
- Response Of Clinical Symptoms And F_{50} To Inhaled Steroids In Patients With Asthma Who Have Been Newly Started On Steroid Therapy And In Patients Requiring Increase In Dose Of Steroids.
- Clinical co-relation and evaluation of spirometry in children with asthma

Dr. Sandhya Jadhav

- Factors affecting ART Adherence among children

Dr. Keya Lahiri

- 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 have mild asthma. (Ethics Committee 12/08/2009). Dr. K. R. Lahiri & Dr. Milind Tullu.

Dr. CT Deshmukh

Ongoing:

- Phase IV open, label, randomized, parallel group, multicentre clinical study to determine and compare reactogenicity of Pentac vaccine with Tritanrix-HB-Hib vaccine in Indian infants.

Dr. SB Bavdekar

Completed:

- A Double-blind, Randomized, Placebo Controlled Trial to Evaluate the Safety and Tolerability of single dose of Advanced Odomos Spray™ in Children [completed February 2009]

Ongoing:

- A Double-blind, Randomized, Placebo Controlled Trial to Evaluate the Safety and Tolerability of single dose of Advanced Odomos Naturals Cream™ in Children

Dr. MN Muranjan

- Co-Investigator: Indian Council of Medical Research – Task force on inborn metabolic diseases project on “Newborn Screening for Congenital Hypothyroidism & Congenital Adrenal hyperplasia: A Multicentric Study”

Dr. Santosh Kondekar

- Joined Fellowship course FAIMER 09 at GSMC
- As a co-investigator in Phase IV clinical trial of pentavalent vaccine, sponsored by SIIL

Pharmacology & Therapeutics and Ayurveda Research Centre

Academic

- Evaluation of protective effects of Indian medicinal plants on cardiovascular system using *in vivo* & *in vitro* experimental models by Dr SK Kamat, Dr NN Rege, Dr. Pratiksha Kapse, Ms. Snehal Mungekar.
- Evaluation of Saraswatarishta and its combination with modern antidepressants in experimental models of behavioral despair. Dr Padmaja Marathe, Ms Reshma parekar, Dr NN Rege
- Drug utilization study on patients of psoriasis in the Dermatology department of a tertiary care hospital. Ujwala Kulkarni, Dr Yashashree Shetty.
- Drug utilization study on patients of skin infections in the Dermatology OPD of a tertiary care hospital. Dr Sandeep Narawane, Dr Hardik Pathak, Dr Tejal Patel, Dr Yashashree Shetty.
- Analysis of NSAIDS usage and prescription monitoring in orthopaedic OPD in KEM hospital. ICMR project STS programme. Mr Tushar Aditya, Dr Padmaja Marathe, Dr Yashashree Shetty.
- A review of reports of site monitoring visits by the institutional Ethics Committees – a tertiary care hospital experience. Dr Yashashree Shetty, Dr Padmaja Marathe, Dr Sandhya Kamat.
- Participation of Human volunteers (non patients in clinical research studies conducted at a tertiary care hospital) – a review of ethical issues. Dr Padmaja Marathe, Dr Sandhya Kamat, Dr Yashashree Shetty.
- Ethical issues in biomedical research: Analysis of research projects submitted to the ethics Committee of a tertiary care hospital in Mumbai. Dr Padmaja Marathe, Dr Sandhya Kamat, Dr Yashashree Shetty.
- A study to assess and analyze the awareness of ethics amongst health care professionals involved in research on human participants. Dr Yashashree Shetty, Dr Priyanka Ingle, B.A.M.S., M.Sc. Pharmaceutical Medicine, PhD Scholar (Pharmaceutical Medicine).
- A drug utilization study in patients of asthma attending the Chest Medicine OPD of a tertiary care hospital. Dr Sandhya Kamat, Dr Sonal Gawande, Dr. NN Rege.
- Evaluation of analgesic activity of dashamula using thermal, chemical & mechanical models in rats and mice. Dr Pramod Bhalerao, Dr Shirish Joshi.

National Collaboration

- “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)”, sponsored by Dept of Biotechnology, Govt. of India in collaboration with Departments of Anatomy, Gynecology and Obstetrics and

Pharmacology and Therapeutics. (Investigators: Dr NN Rege and Dr SK Kamat)

- “Evaluation of Indian Medicinal Plants for Anti-atherosclerotic Effects and Exploration of Their Possible Mechanisms of Action” sponsored by Dept. of AYUSH, Govt. of India (Investigators: Dr NN Rege, Dr SK Kamat, Dr Pradeep Vaidyashwar and Dr. Dinesh A. Uchil)
- “Proof of safety & efficacy on selective plant based positive health promoters”, sponsored by Indian Institute of Integrative Medicine (CSIR), Govt. of India and in collaboration with Departments of Medicine, Surgery, Endocrinology and Ayurveda Research Center, Seth GS Medical College.
 - “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”. Dr NN Rege, Dr Padmaja Marathe, Dr Yashashree Shetty.
 - “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”. Dr NN Rege, Dr Padmaja Marathe, Dr Yashashree Shetty.
 - “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”. Dr N N Rege, Dr Sandhya Kamat.
 - “A proof of Concept prospective, double blind, placebo controlled, randomized clinical trial to assess the effects of PHP–Cancer in improving quality of life in patients receiving chemotherapy for treatment of Breast cancer”. Dr N N Rege, Dr Tejal Patel.
- ICMR project entitled “Exploratory Study to evaluate tolerability, safety and activity of Ashwagandha in healthy volunteers” in collaboration with Medical Research Centre, Kasturba Health Society. (Investigators: Dr NN Rege, Dr R.K. Tripathi).

Industry sponsored

- A prospective, controlled, randomized, comparative, study to evaluate the glycemic index of test (food) products: Rice 1 and Rice 2 in healthy volunteers. (Investigators: Dr NN Rege, Dr R.K. Tripathi).

Completed Projects:

Academic

- Evaluation of effect of Loratidine, Chlorpheniramine and Aspirin on platelet aggregation *in vitro*. Dr BD Samant, Dr Yashashree Shetty, Dr Hardik Pathak.
- Comparison of Effects of Two Formulations of Indian medicinal plants, *Tinospora cordifolia* (Tc) and *Phyllanthus emblica* (Pe) with or without *Ocimum sanctum* (Os) on immune system by Dr NN Rege, Dr SK Kamat, Dr Vinod Shetty, Dr Shankar S. and Ms Dipti More.
- Comparative evaluation of effects of two formulations containing *Phyllanthus emblica* and *Tinospora cordifolia* with and without *Ocimum sanctum* on learning and memory performance in animals, Dr NN Rege, Dr SK Kamat, Dr Harshad Malve.
- Evaluation of antidepressant activity of ropinirole alone & in combination with fluoxetine in acute & chronic behavioral models of depression. Dr NA Manjrekar, Dr SK Kamat, Dr Girish Joshi, Dr. Sanman Ghorpade.
- Assessment of potential drug interaction between modern medicines and herbal/ herbo-mineral formulations in animal model of chronic diseases by Dr NN Rege, Dr Padmaja Marathe, Ms Reshma Parekar .
- Evaluation of protective effect of *Tinospora cardifolia*, *Phyllanthus emblica* with & without *Ocimum sanctum* coating against infection in normal & myelosuppressed animals: An experimental study. Dr Shankar S, Dr SK Kamat, Dr NN Rege.
- ‘Observational study to gather opinion & assess awareness about dissertation’ in the final year post-graduate students of KEM Hospital. Dr Dnyaneshwar G. Kurle. Dr Shirish Joshi. Poster of this study was presented in the conference ‘Good Teaching Practices’ at Pune, organized by Department of Medical Education & Technology (MET), MUHS.
- Evaluation of performance and perception of medical undergraduate students to Integrated teaching method: A prospective, comparative, parallel, 3- arm study. Dr Rakhi Tripathi, Dr Sharmila Jalgaonkar, Dr Pankaj Sarkate.
- An *in vitro* study to evaluate the effects of Ayurveda drugs on hair growth by Dr NN Rege, Ms Sadhana Babar.

National Collaboration

- Development of herbominerals & plant based disease oriented immunomodulatory formulations in collaboration with Department of Science and Technology, Govt. of India, Shree Dhootpapeshwar Ltd, with Sharadini Dahanukar’s

ACART, TN medical college and Ayurveda Research Center, Seth GS Medical College (Dr NN Rege, Dr SK Kamat)
Industry Sponsored

Ayurveda Research Centre

- Evaluation of Ayurvedic herbomineral formulation for immunomodulatory activities.
- Establishment of models to screen drugs used for hair growth.
- Evaluation of plant based drugs and / vitamins for their effects on hair growth using *in vitro* hair follicle organ culture system. Departments of Dermatology and Pharmacology and Therapeutics.
- To compare the efficacy and safety of Arshkalp in the treatment of internal hemorrhoids in comparison with combination of 5% lignocaine gel and Isabghula powder – A Phase IV randomized –controlled parallel group open label study. Departments of gastroenterology and Pharmacology and Therapeutics. Dr Deepika Jindal, Dr NN Rege and Dr AN Supe.
- A Proof of Concept, Prospective, Double Blind, Controlled, 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. Departments of Cardiology and Pharmacology and Therapeutics. Dr Harshad Malve, Dr NN Rege, Dr Prafulla Kerkar
- Acute toxicity study on a batch of Paracetamol tablets. Dr Sanman Ghorpade, Dr Padmaja Marathe, Dr NN Rege.
- “Evaluation of safety and efficacy of (Ampicillin + Dicloxacillin) combination against (Ampicillin + Cloxacillin) combination in patients of Acute Sinusitis– A Phase IV, Prospective, Interventional, Double blind, Randomized, Controlled, Parallel group study”. Dr BD Samant, Dr Hardik Pathak, Dr Jyoti Dabholkar.
 - Departmental members contributed to the advancement of research training of the faculty and students of the institute, e.g. Dr. Padmaja Marathe during her tenure as Secretary, Ethics Committee for Research on Human Subjects (ECRHS) coordinated new SOPs formulation & revision of existing SOPs and coordinated the SIDCER international survey for the recognition of the ECRHS in Feb 2009, based on which the Committee has been awarded an accreditation by SIDCER. Dr Sandhya Kamat, Professor and Member, ECRHS, Dr Yashashree Shetty, Asst. Professor, and Secretary, Committee for Academic Research Ethics (CARE) contributed to the activity.

Physiology

Completed Projects:

- To study the effect of anulom vilom pranayam on human auditory and visual reaction time in Indian adolescents aged 18-22 years- Dr. Manish Dhadse
- To study the effect of pranayam on the blood glucose level- Dr. Vinod Shende
- To study cardiovascular response to isometric hand grip exercise in males and females in seated and supine position- Dr. Alika Sharma
- Comparison of finger dexterity test and forearm muscular strength in right handed and left handed medical students to judge the motor skills- Dr. Sneha Chopde
- Comparative study of cardiovascular endurance in swimmers and non swimmers- Dr. Devendra Patil
- To study cardiovascular response to exercise in the Diabetic Type II Patients and controls by using Harvard's Step Test- Dr. Rameshwari Ahire
- To study the effect of pranayam on the visual acuity of the medical students- Dr. Megha Khairnar
- To study the effect of pranayam on respiratory rate and ventilatory functions of lung.-Dr. Shivraj Manaspure
- To study the effect of suryanamaskar on Aerobic Capacity and Perceived Exertion in medical students- Dr. Sourabh Phulmali
- Case based learning – Is it an effective teaching learning methodology?- Dr Munira Hirkani
- Quiz as a teaching and learning method in medical education' carried out as a part of MET cell workshop by Dr. Sourabh Phulmali , Dr. Megha Khairnar, Dr. Rameshwari Ahire, Dr. Daimi Badar , Dr. Shivraj Manaspure , Dr. Adwait Godse, Dr. Devendra Patil , Dr. Bhavana Bhirud.

Ongoing Research:

- To study the effect of Ramadan fasting on some physiological and biochemical parameters in healthy medical students of age group 18-28 years- Dr. Daimi Sayed Badar Azhar
- Study of correlation of the body composition and physical fitness index in the age group 17-21 years –Dr Adwait Godase
- Comparative study of cardiovascular endurance in stair case climbers and non climbers in medical students- Dr Sheetal Mankar

- Study & comparison of pulmonary function test in healthy, nonsmoking subjects of different age groups-Dr Geeta Jagia
- The study of effect of yoga on hypertensive individuals - Dr Vineet kumar Jagnany
- To study altered autonomic nervous activity as a potential etiological factor of premenstrual tension & premenstrual dysphoric disorder- Dr Vinny Ghanshyam kaurani
- Cardiovascular response to exercise in young ,normal weight & overweight medical students in the age group of 18-25 years-Dr Angesh Bagade
- Comparative study of auditory reaction time & tactile sensibility in blind & sighted individuals-Dr Bhavana Bhirud
- The effect of yoga on some physiological parameter in healthy individuals between 30-40 years-Dr Megha Bhonde
- Comparative study of VO_2 Max & physical fitness in trained aerobic dancers & working women of same age group- Dr Pallavi Sawant
- To study body fat composition & anaerobic capacity in first year medical student -Dr Seema Jadhav
- Study of circadian rhythm of peak expiratory flow rate in healthy young individuals -Dr Nitin Dhokane
- Co-relation of pulmonary function tests with body fat percentage in young normal Weight & overweight medical students in age groups of 18-25 years -Dr Smita Galphade
- To study aerobic capacity (VO_2 Max) in first year medical students - Dr Jayashree Jadhav
- Developing marking scheme for long answer questions & short notes in the subject of Physiology at Seth GSMC.- Dr. Kshitija Patkar
- Effect of alternate nostril breathing on cardiorespiratory & autonomic variables in Healthy young individuals- Dr Anup kumar Dhanvijay

Physiotherapy

- Cardiovascular response to repetitive Mckenzie Lumber Spine exercises
- The cardio respiratory response to shuttle walk test and six minute walk test in patients with COPD as compared to normal individuals
- Comparison of effect of unsupported upper limb endurance training and lower limb endurance training in patients with chronic obstructive pulmonary disease
- Comparison of autogenic drainage (AD) and active cycle of breathing techniques (ACBT) in patients with chronic obstructive pulmonary disease (COPD)
- Effect of proprioceptive neuromuscular facilitation technique in patients on ventilator support for weaning off
- Physiological response to chest physiotherapy in preterm neonates
- Evaluation of functional capacity in physiotherapy students of Seth G.S. Medical College
- Cardiorespiratory changes to chest physiotherapy maneuvers in patients with acute exacerbations of pulmonary conditions
- Comparison of Mobility Flexibility & balance in the lower limb in bharatnatyam dancers and non-dancers
- To compare effectiveness of mobilization (MWM) with movement vs pain release phenomenon for pain relief and improvement of function in patients with tennis elbow.
- Correlation of Neurodynamics response with ankle foot mechanics in young adults
- Comparison of the effects of ultra sound V/s myofascial release technique in treating planter fasciitis
- Co-relation of core strength to the dynamic balance and agility in tennis players
- To study the efficacy vastus medialis of vastus medialis oblique strengthening exercise patellar taping and hamstring stretching as a treatment in patients with osteoarthritis of knee joint
- To study co-relation of endurance of deep core muscles to dynamic stability in young females with chronic mechanical low back pain
- Effect of manual therapy techniques on knee proprioception in patients with osteoarthritis of knee
- Task oriented intervention enhances walking distance, speed and balance efficiency in post stroke patients
- Reliability and validity of tinnetti mobility test for individual with parkinson's disease
- Early modified intense multisensory stimulation improves glosglow coma scale in paediatrics with non-traumatic acute neurological insult
- 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 iliotibial band stretching in addition to conventional physical Therapy in subjects with knee osteoarthritis
- 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
- Effect of Sensory specific balance training in elderly
- The effect of Triceps Brachii Vibration on Proprioception during Motor performance of elbow joint-A Normative study

PSM

Dr. S.S. Bansode Gokhe :

- Study of menstrual hygiene practice amongst females in reproductive age group of 15-45 yrs" in collaboration with Tata Institute of Social Sciences, Deonar and Karolinska Institute Sweden.

Thesis

- Comparative Study of Utilization and Quality of Services at VCTCS in Different Level of Health Care Setting
- An Epidemiological Study of Factors influencing the Current Morbidity Pattern and mental health status of Geriatric Women in urban slum Area with Special Reference to their Socioeconomic Condition.
- A Study of Morbidity Profile among Resident Doctors in a Tertiary care Hospital
- A Prospective Study to assess the Determination Influencing and Affecting Blood Donations amongst Voluntary Blood Donors and non donor Student youth Cohorts in a Metro city.
- A Longitudinal Study to Assess the Views of the Concerned Stakeholders regarding to adolescence Health education with regards to developing a Consensual Opinion.
- A Quality Analysis of Maternal Health Services at Rural Health centre.
- A Comparative Study to Assess Determinants of Reproductive Health with Special reference to Gynaecological Morbidities amongst Urban and Rural women of Reproductive Age Group
- To Study the Health Profile\Morbidity Amongst the Secondary School Children with the Special Reference to Epidmiological Assessment of school Dropouts.
- Evaluation of quality of Services in Anganwadis of ICDS A Rural and Urban Comparison.
- Observation of magnitude of Anxiety and Depression in Urban slum Population with respect to Social Factors and their Health Seeking Behaviour
- Study of some Epidemiological Features of Perimenopausal and Menopausal Health Problems in Women from Urban Community
- Prospective study of Low birth weight (LBW) infants in Malvani
- Epidemiology of HTN in Urban slum-Malvani
- Substance abuse in males >15 years age – Malvani
- An epidemiology study of physically challenged children attending special school in Urban city

- Study of implementation of leprosy control program at primary and secondary level health care facilities in a rural area – Sakwar
- Family planning practices and unmet needs among eligible couple – Malvani
- A study of perceptions determining adolescent sexual behaviour in Malvani
- Unmet needs in PLHWA – Malvani
- An international study of factors influencing health seeking behaviour of an urban slum – Malvani
- Child rearing practices – Malvani

Collaborations :

- ICMR student fellowship research – Mr. Aditi Agarwal “Study of diagnostic and management practices regarding tuberculosis and involvement in RNTCP among private practitioners in an urban slum in a metrocity”- year 2009 - Guide Dr. S.M. Acharya, Assoc. Professor, PSM Dept
- Community Research Projects in tribal area under RHTC Sakwar (Guide Dr. S. Acharya , Dr. S.S. Shanbhag) :-
- Baseline socio-demographic survey in Sakwar
- A cross-sectional study of leprosy affected persons attending LRC, Sakwar
- Altitude and practices of tribal male youth about education and addiction
- Knowledge and altitude of tribal male youth for diarrhea & malaria
- Study of unmet needs of family planning in Sakwar village.
- Effectiveness of family like education among ITI students trainees
- Study of menopausal changes among perimenopausal women in Sakwar village
- Knowledge , altitude and practice of malaria in Sakwar sub centre
- Utilization and quality of reproductive health care services among tribal women in Sakwar.
- In-depth interview of unskilled birth attendant in tribal area
- Nutritional assessment of underfive children in Sakwar
- Effectiveness of advocacy measures in improving immunization coverage in children.
- 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.

Surgical Gastroenterology

Ongoing Projects:

- Reptilase trial : We Completed trial on reptilase. Phase IV trial to evaluate the outcome of the said drug in minimizing the intra-operative bleed
- Co-relation of CEA levels and the operability status in Ca Pancreas-
- Study of Anal Manometry in patients undergoing treatment with diltiazm for anal fissure.
- Structured training in Laparoscopy for residents
- Fast Track surgery in GI Surgery

Completed Projects:

- Comparison of Nitrogesc ointment with Diltiazam ointment in management of anal fissure.
- Assessment of Sepagrd Gel in management of wounds.

Collaborations

- Proposed collaboration with NHS (National Health Services-UK), and Liver transplant surgeons of UK to establish and develop Cadaveric Liver ransplant program at our institute.
- Collaboration with Department of Transplant Surgery , Sir Gangaram Hospital, New Delhi.

Transfusion medicine

- Standardization of Ficoll Hypaque Density Gradient Centrifugation Technique for Harvesting of Mononuclear Cells from Human Peripheral Blood and its Quality control.
- An Evaluation of PROCLEIX Ultrio Assay With The Procleix System (NAT) Testing to Determine The Percent Yield and Prevalence in High Incidence Population. (In collaboration with NIIH)

Urology

- Open label, randomized multicentric clinical trial of Mycobacterium W in combination with Docetaxel Vs Docetaxel alone in metastatic hormone refractory prostate cancer
- 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.

In process:

- 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.”

Publications

Publications

Anatomy

- Patil Rashmi – Comment on Inguinal Canal Development : The Muscular Wall and the Role of Gubernaculum (Letter to the editor) – Clinical Anatomy (2009); 22(7)

Anaesthesia

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- Shroff PP, Patil V Efficacy of cuff inflation media to prevent postintubation -related emergence phenomenon: air, saline and alkalinized lignocaine Eur J Anaesth; 2009; 26(6): 458-462
- Prakash Krishnan, Manjula Sarkar Analysis of Predictors of Postoperative Outcome of High Risk Patients Coming for Obstetric Procedures J Anaesth Clin Pharmacol 2009; 25(1): 66-68.
- Prerana P Shroff, G.P Dureja, Bipin Patel, R. D. Patel, Sona T Dave, Anita N Shetty, Vijaya Jaiswal; Functional Evaluation of an Indigenous Infusion Flow meter ACCUFLOW: Multicentric Comparative Study in Elective Surgical Procedures; J. Anaesth Clin Pharmacol 2009; 25 (4): 467-470.
- Dr Vimalraj, Dr N. Dave, Dr M. Garasia Pneumothorax: a rare complication during ventriculoperitoneal shunt surgery Indian Journal of Anaesthesia 2009; 53(3): 375-76
- Dr N. Dave Evaluation of the ProSeal LMA in paediatric laparoscopy. J Anesth Clin Pharmacol 2009; 25(1): 71-73
- Dr N. Dave Thoracoscopic clipping of Patent ductus arteriosus Journal of Anesthesiology Clinical Pharmacology 2009; 25(2): 228-231
- Dr N. Dave Combined spinal epidural for gastroschisis repair Indian Journal of Anesthesia 2009; 53(2): 223-225
- V. Amale, M. Sarkar & S. Pandya Intraoperative Cerebrovascular Accident Due To Post Clinoid Meningioma Can Mimic TURP Syndrome During TURP Surgery;; The Internet Journal of Anesthesiology. 2009 Volume 19 Number 2
- P.Behra V Amale, P.Pednekar, R.D.Patel, S. Pandya Anesthetic management of a patient with Giant cell tumour of mandible with Rheumatic Heart disease with epilepsy for excision. Internet Journal Of Anesthesia, Vol.No.20.No.2(2009)
- Dr N. Dave Postoperative brachial plexus neuropathy following general anaesthesia Internet Journal of Anesthesiology 2009 Volume 20 Number 2
- Dr N. Dave Peri-operative management of Conn's syndrome - a case report Internet Journal of Anesthesiology 2009 Volume 19 Number 2

Biochemistry

- Influence of Method of Specimen Collection on Various Preanalytical Sample Quality Indicators in EDTA Blood Collected for Cell Counting - Tester F Ashavaid, Sucheta P.Dandekar, S Khodaiji, M H Ansari and Adarsh Pal Singh. Indian Journal of Clinical Biochemistry, 2009; 24 (4) : 356-360.

Cardiology

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- Nishaki Mehta, Nidheesh Mishra, Prafulla Kerkar. "Transcatheter closure of RSOV & ASD"- Case Report, Journal of Invasive Cardiology, in press.
- Prafulla Kerkar, Charan Lanjewar, Biju Ephrem, Nidheesh Mishra. A Planimetry of Mitral Stenosis in Rheumatic Heart Disease by Magnetic Resonance Imaging. Journal Valvular Heart Disease -2009 in press.
- Charan Lanejwar, Sanjit Jolley, Shamir Mehta Effects of Aspiration Thrombectomy on Mortality in Patients with Acute Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention: A meta-analysis of the randomized trials Indian Heart Journal, July-August, 2009.
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Chest Medicine

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Clinical Pharmacology

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In the Limelight

In the Limelight

DNA 30th July, 2009



36 SANJAY OAK
Dean, KEM Hospital

Public Spirit

In mid-2007, a newborn abandoned and stabbed at least 20 times was rushed to Nair Hospital. Going by the notoriety of public hospitals, the baby should not have lasted even an hour. But Dr Sanjay Oak had other plans... Excellence in public healthcare is the motto of Dr Oak, the man during whose tenure as dean, six departments of Nair Hospital got certified by the International Standardisation Organisation. A paediatric surgeon, he is known for taking up complicated cases, like the newborn's. It is for such feats that Dr Oak, who is also the director of the municipal corporation's health services, was awarded an honorary degree in surgery by the prestigious Royal College of Surgeons, Edinburgh. That should not take away from him the 14 academic degrees he holds, the subjects including law, administration and human resource development. But there is method in his bewildering choice of subjects: he strongly believes that only medical professionals should run hospitals owing to their superior understanding of patient care.

CITY

KEM doctors save infant with rare congenital defect



Rishikesh Wagh was born with ALCAPA, due to which his heart could not supply oxygenated blood to the body, making him suffer from breathlessness, poor appetite and slow development.

LATA MISHRA

A nine-year-old boy whose jumbled coronary arteries meant that his heart did not get enough oxygenated blood was successfully operated upon by doctors in KEM Hospital on Thursday.

Rishikesh Wagh was born with a rare congenital defect. The left coronary artery, which supplies oxygenated blood to the heart, was located near the pulmonary artery, which carries de-oxygenated blood to the lungs. The condition is called Anomalous Left Coronary Artery from Pulmonary Artery (ALCAPA) where the left coronary artery emerges from the pulmonary artery instead of the aorta. This anomaly meant that his heart could not supply oxygenated blood to the rest of the body, making the child suffer from breathlessness, poor appetite and slow development.

Such children rarely survive for even six months. Rishikesh's father, Dilip Wagh, who runs a paan shop in Dhule, brought the child to Mumbai after he showed signs of breathlessness last month.

"It is very rare congenital birth defect in India and in my 20-year-long career, I have never seen a child with such a defect," said Dr N B Agrawal, cardio-vascular surgeon at KEM Hospital.

HOW ALCAPA AFFECTS THE CHILD?

Coronary arteries are blood vessels that supply the heart with red or oxygen-rich blood. There are usually two large coronary arteries that arise from the aorta — one from the right side and one from the left. Sometimes, for reasons not known, when the heart and blood vessels are forming, the left coronary artery arises from the pulmonary artery, like in the case of Rishikesh.

Right after birth, the pressure on the pulmonary artery is so high that enough blood flows through this vessel to supply the heart with oxygen. Over the next two months, the pressure in the pulmonary artery drops and so does the blood flow through this vessel.

The decreased amount of oxygen-rich blood leads to damage of heart muscle cells. As a result, the heart is not able to pump as much blood as the body needs. This causes symptoms of congestive heart failure, such as poor feeding, slow growth.

Initially, he thought the child had a common congenital condition. "But, the medical report suggested that he had a very rare birth defect. It was a very difficult operation. Rishikesh's heart was pumping only half of the required amount of blood. As far as I know, only 20 such cases have been operated upon in India. Only one in five lakh children suffer from this problem," Dr Agrawal said.

To correct the complication, doctors moved the left coronary artery, along with a button of tissue, away from the pulmonary artery and stitched it to the aorta, which is the opening for the left coronary artery. After that, doctor sutured the pulmonary artery with pericardial, or heart tissue.

Rishikesh also had a more

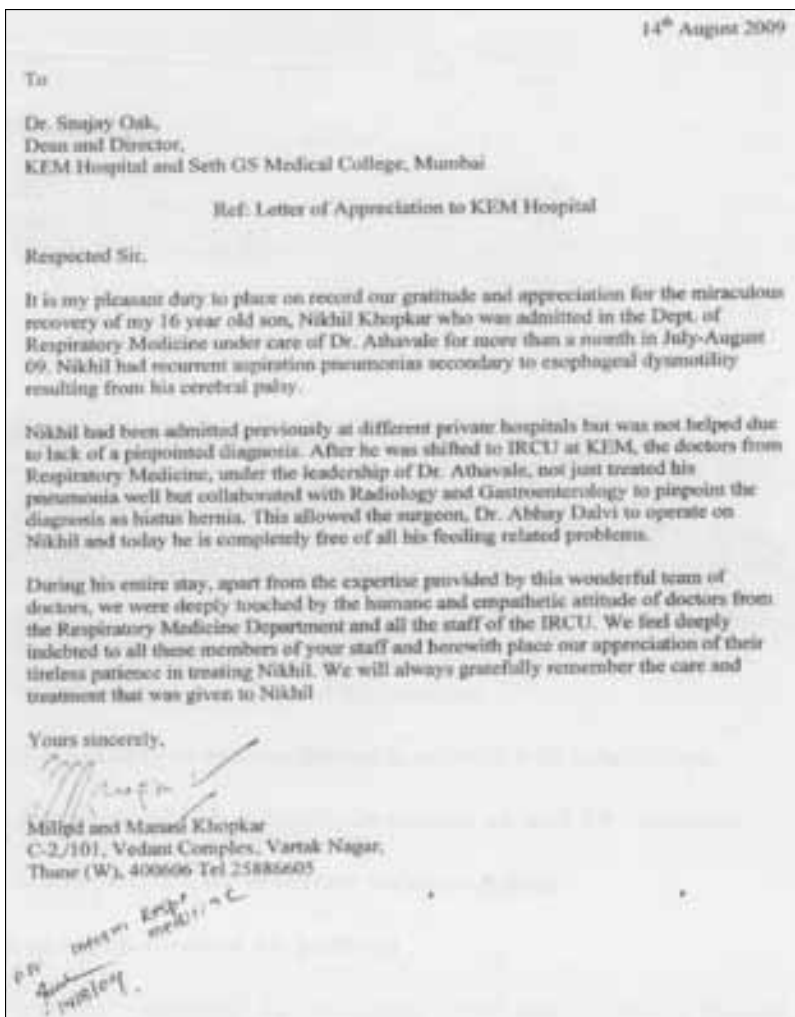
common ailment — a hole in his heart — which the doctors rectified.

"Rishikesh is absolutely fine now. He will be out of the Intensive Care Unit soon," Dr Agrawal said.

Wagh said, "He is my only son. I am grateful to the doctors for saving his life."

ABOUT THE SURGERY

The aim was to connect the anomalous left coronary artery with the aorta. Its success depends on the exact location of the anomalous left coronary artery. Sometimes, it can be moved, along with a button of tissue, from the pulmonary artery and sewn into the aorta. If it is located far away from the aorta, a 'tunnel' is made from the aorta to the anomalous left coronary artery.



Chest medicine

All India Radio Broadcast

Dr. A.U. Athavale (Professor and Head) delivered a talk on 'Chronic Respiratory Diseases' on All India Radio Akashwani Programme "Arogyam Dhansampada" relayed on 23-04-09

IBN Lokmat

Dr. A.U. Athavale (Professor and Head) delivered a talk on 'Talk time' on 'World Asthma Day' conducted by IBN Lokmat on 5- 05-09 thus contributing to spread of awareness among masses regarding asthma.

Pandemic H1N1 Awareness

The Dept. of Chest Medicine & Environmental Pollution Research Centre, in co-ordination with the departments of medicine, pediatrics ,anesthesia and microbiology, Seth G.S. Medical College & K.E.M. Hospital, organized 4 workshops with lectures and hands on training pertaining to use of mechanical ventilation in patients with ARDS following H1N1 infection. This was conducted for district medical officers from various parts of Maharashtra. A total of 24 medical officers attended these training sessions.

INDIAN EXPRESS

Tags : Mumbai, World Asthma Day Posted: Tuesday , May 05, 2009 at 2338 hrs Mumbai:

On World Asthma Day, doctors and specialists in Mumbai are drawing attention to this year's theme: "You Can Control Your Asthma".

"The Delhi case is important to look at in the wake of the theme," says Dr Amita Athavale, the HOD of Environment Pollution and Research Centre at the KEM Hospital, referring to the recent death of a 17-year-old New Delhi student who complained of breathing trouble and died before she could be rushed to hospital. "People should be educated about identification of triggers and empowered with preventive measures," says Athavale.

According to Meera Isaacs, principal of Cathedral School, the Delhi case is a wake-up call. Every school should rethink their policies to make it easier for a student to receive help when it is critical, she says, adding that schools should tie-up with the hospital closest to them and conduct awareness and training camps for staff and teachers.

Dr Pramod Niphadkar who runs an allergy and asthma clinic at Dadar feels the apathy towards asthma should be done away with. People, he says, should measure their own health risks and take control of them.

There are new medicines and devices available. The 'peak flow meter' is one of the simplest and easiest ways to check expiratory flow rate, which is a measure of how hard and how quick air can be breathed out, Dr Niphadkar says. It is affordable and every family who has a history of asthma should have it.

One of the measures the government is taking is to ensure that controller medication therapy, which has proved effective in reducing asthma admission cases in hospitals, is provided free of cost from the next financial year to people who have enlisted themselves in educational programs such as the one at KEM hospital.

From medical camps being conducted by various hospitals and NGOs, it has come to light that there has been a steady rise in the prevalence of asthma in the city owing to pollution. Allergy is an important factor in asthma.

One of the measures suggested is that hotel and food industry should list food contents so that consumer do not suffer. A study being conducted by the Harkisondas Hospital shows that pigeon droppings could trigger asthma. Few other things that should be taken care of are food preservatives.

Dr Athavale says, "Asthma is a long term disease and health checks should be regular. It is 'You' who is important. Getting oneself educated is priority".

Times News Network - BMC goes green on bio-med waste

Clara Lewis, TNN 4 June 2009, 03:36am IST

MUMBAI: On World Environment Day, the BMC is taking a green step. All the Bio-Medical Waste (BMW) generated in its hospitals will be disposed of in bio-degradable bags instead of plastic ones. However, the cost of Rs 6 crore against the present annual expenditure of Rs 1.5 crore has raised eyebrows. Half the waste generated by the city comes from civic hospitals. All the waste is disposed of at the Deonar dumping ground. Kishore Gajbhiye, additional municipal commissioner, in charge of public health, said the decision to use bio-degradable bags was made following a visit to civic hospitals by officials from the MPCB last year. "They were very unhappy with the manner of disposal of bio-medical waste. It was then decided to replace plastic bags with bio-degradable ones," said Gajbhiye. The three major hospitals-KEM, Sion and Nair generate 5,000 kg of BMW daily. Of this, 2,800 kg is autoclaved and 2,200 kg is incinerated.

Dr Amita Athavale, head of the chest medicine department at KEM, who regularly conducts studies on the health of people residing near the Deonar dumping ground, said it was a very good decision. "Plastic takes nearly 2,000 years to degenerate whereas these bio-degradable bags made from starch degrade in 45-60 days. They are environment friendly and a must for the city," said Dr Athavale. However, civic sources said in case of autoclaving where steam pressure is used to sterilise the BMW, the bio-degradable bags were a waste of money. "The end product is merely a lump that is then disposed of at the dumping ground. How will bio-degradable bags help in such a situation? Besides, who will check if bio-degradable bags are being used while burying the waste," asked civic sources.

Gajbhiye said every hospital has an official in charge of BMW. „It is the officer’s responsibility to ensure that the waste is properly disposed of. The BMC has only made a start and as the cost is high, the BMC will reduce or increase the usage of bags depending upon how well the process works,“ he added.

Dentistry

Operated rare case of TMT ankylosis published in Navakal & Lokmat (daily newspaper)

Students

Dr. Yashashree Shetty, along with undergraduate students, has attended UNESCO- WELT-JUGEND- FESTIVAL STUTTGART, youth festival in Stuttgart, Germany from 11-19th July 2009 on “Climate change & Global warming” and prepared a formal statement for the world to follow.

Looking Ahead

Looking Ahead

Anatomy

Teaching

- Air-conditioning of the Dissection Hall, Microanatomy Laboratory, Anatomy Lecture Theatre with Laminar Airflow Systems has been planned in the forthcoming year.
- Electron Microscopy Facility, Plastination Facility, Genetics Laboratory will be set up to facilitate teaching to undergraduate students and to carry out research activities by postgraduate students.
- The mortuary of the department of Anatomy is going to be renovated with new hydraulic systems for easy transfer of bodies.
- Close circuit camera TV will be set for monitoring of the Lecture Theatres, Laboratories and Departmental Corridor for security.

Anesthesia

Teaching

- A centre for 'Difficult airway training' will be started.
- A DM degree course in Cardiac Anaesthesia, Neuro-anaesthesia, Paediatric Anaesthesia will be initiated.

Patient care

- Out patient department for pain management will be started by the department.
- Two floors will be reserved for setting up operation theatres including state of art super-specialty operation theatres in the new building.
- A 10 bedded AICU and a 10 bedded HDU has been planned
- Old equipments in the Department will be replaced with new equipments.
- Provision of facilities for peri-operative management of liver transplant surgeries.

Research

- The following study will be carried out in the department.
"A randomized parallel group comparative study evaluating the efficacy and tolerability of injection diclofenac sodium 75mg/1ml given as an IV injection versus diclofenac sodium 75mg/3ml given as an infusion in the management of post operative pain" - Dr Prerana Shroff, Dr Sarla Pandya Dr Priti Pednekar Dr Deepak Ruparel.

Biochemistry

Teaching

- To introduce innovations in teaching technology which will be relevant and facilitate better students' learning.

Patient care

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

Research

- To collaborate with National and International Agencies and to diversify and upgrade the research activities
- Complete renovation of laboratory and the department is being carried out.

Cardiology

Teaching

- The extensive experience available in trans-septal punctures techniques to be translated into a training course for interested Cardiologists.
- Fellowship program for post DM /DNB candidates in Paediatric Cardiology, Adult interventional cardiology and Electrophysiology.

Chest Medicine

Teaching

- The department plans to start an education program on interstitial lung diseases and asthma for patients and health care workers.

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 VideoEEG for sleep studies.
- We will also be acquiring new aspiration cytology needles which will be used for transbronchial needle aspirations.
- We have also put in a request to procure an ultrasound machine which will be useful for diagnosis and guided procedures.

Research: (Ongoing)

- A study of pulmonary sequelae of ARDS patients.
- A study of prevalence of auto-antibodies in patients with tuberculosis.
- Study of prevalence of Hepatotoxicity in patients on Anti TB Treatment.
- Sputum Eosinophils & CRP in chronic stable bronchitis.
- Health effects of Air pollution.

Cardio-vascular and Thoracic Surgery (CVTS)

Teaching

- Expansion of the facilities has been proposed in the 2nd phase of the institution development plan. It will be expected to complete by 2012.
- A separate area of 1500 sqft is proposed for combined library and seminar hall for Cardiology, CVTS and Chest Medicine departments in the proposed multistoried building.

Clinical Pharmacology

Patient care

- Setting up of TDM programme for immunosuppressant in the transplant programme of the hospital.
- Pharmacogenetic clinic (warfarin & others) to reduce side effects

Dentistry

Patient care

- Planning to get Radio Visuography machine(RVG) for spontaneous X-Ray (IOPA) For Patients

Dermatology

Patient care:

- The department of dermatology has introduced new patient care services in the form of laser therapy for vitiligo and psoriasis and also for conditions like acne scar and hirsutism that were hitherto untreatable with medicines.
- We are planning for Botox and Fillers Treatment for crows feet, wrinkles, nasolabial folds etc.

Endocrinology

New areas to be developed in next 15 years in Teaching

- To start a diabetes Educators programme for nursing staff/ Medical social worker
- Fellowships in Pediatric and Adolescent Endocrinology, Reproductive Endocrinology

Patient Care

- To establish Foot Care Clinic
- Diabetes services to be enhanced to curtail number of patients visits.
- Diabetes prevention programme
- To establish clinic for "Disorders of sexual development"
- Neuro Endocrinology clinic

- Thyroid Sonography
- To establish patient support group
- Obesity Clinic

Research

- To establish molecular endocrinology laboratory
- To establish regional referral centre for genetic diagnosis in endocrine disorders.
- To establish genotyping in patients with congenital adrenal hyperplasia
- To establish newborn screening programmes in congenital hypothyroidism and congenital adrenal hyperplasia
- Further research in pharmacogenetics in various endocrine disorders like Diabetes Mellitus Osteoporosis etc.
- Increasing number of national and international publications.

Gastroenterology

Patient care

- Establishment of a Liver ICU in coordination with Department of Gastroenterology surgery 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 can not 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 the GI Surgery Department, a combined OPD for patients requiring integrated care is being planned.

Surgical Gastroenterology

Patient care

- In the immediate future we propose to establish a Liver Transplant program.
- To set up a modular OT with class Air ceiling management system.
- To set up a separate GI-ICU, comprising of six beds for better intensive management of the patients.
- To set up another ward to accommodate the patients and thus overcome overcrowding of the patients.

Medicine

Teaching

- Starting fellowship in HIV care.
- Journal reviews/ topics reviews of critical care topics by fellow student doing critical care fellowship.
- Interactive session with ISCCM Mumbai.

Research

- Research in field of basic sciences involved with HIV.
- International publications.

Neonatology

Patient care

- Establishment of emergency Neonatal Care services
- Establishment of fetal medicine clinic.
- Initiation of Community based Kangaroo Mother Care.

Nephrology

Teaching

- Fellowship in dialysis technology.

Patient care

- The department plans to expand deceased donor programme & CAPD programme.
- C.K.D. – Clinic.

- S.L.E. & Vasculitis Clinic.
- Paediatric Nephrology Clinic

Neurology

Patient care

- To start Stroke Unit.
- Dementia Clinic.
- 2nd Phase epilepsy surgery – Invasive monitoring.
- Intra operative electro-corticography.

Neurosurgery

Patient care

- The Department is establishing its own neurovascular laboratory, specifically for intraoperative angiography.

Nursing

Teaching

- The department looks ahead to provide facilities in the School of Nursing such as well equipped fundamental nursing, nutrition, community health nursing laboratories. Updated libraries for students and staff.
- BSc. Nursing college proposal will be put up.
- Critical Care Nursing Course will be started.
- Internet facilities for the students and staff.

Obstetrics and Gynecology

Teaching

- 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.
- Advance formulation of curriculum for 'SOFT SKILLS' training of residents
- Training with modules for endoscopy for postgraduates.

Patient care

- Additional fetal monitors for better labor ward management.
- Extra postnatal ward is planned since existing postnatal ward has about 175-200% occupancy at all times.
- Postoperative monitoring facilities for all post-operative patients with cardioscope, defibrillator and pulse oximeter.
- Recovery room with monitoring facilities for Obstetrics OT, Gynec OT & FP OT with resuscitation equipment & life support equipment.
- Advanced endoscopic surgery units are being planned to reduce no of laparotomies and in effect, reduce hospital stay and costs to patients and MCGM.
- Centre for assisted reproduction is planned.
- High risk pregnancy and autoimmune disorder OPD.
- Gynaecologic endocrinology OPD.
- Gynaecologic oncology OPD.
- Intensive Labour Care Unit is planned.

Occupational Therapy

Teaching

- To develop E-learning programs for distant learning and education.
- Formulation of the PhD program for Occupational Therapy.
- Provision of the facility of internet and intranet in the department.
- Renovation of the department portraying the specialty areas developed in the past years.

Patient care

- To establish state of art department of Occupational Therapy reflecting the latest trends and technological care imparted

by the professionals, improvised over the last 50 years.

- To set up a unique rehabilitation care center for the physically and mentally handicapped with facility of disability evaluation.
- To introduce an orthotic and prosthetic department in the Occupational Therapy Center.

Research

- To collect data for standardizing scales on the Indian population in different fields of Occupational therapy for the purpose of assessment & intervention.

Orthopedics

Patient care

- To establish Computer navigation assisted spinal surgery and arthroplasty
- To introduce bone banking advances.
- To establish Spinal rehabilitation center.
- Upgradation of equipments and facilities in operation theatres
- Upgradation of OPD for more patient friendly out patient care
- The time allocated for operations to be increased with increase in number of OTs from three to four.
- To set up dedicated orthopaedic trauma unit with 3 orthopaedic table (2 clean and 1 septic table) in the EMS.
- To create more place in OPD to cater 300 patients per day.
- To set up research laboratory for stem cell, regeneration medicine, cartilage transplant, bone banking so as to work in direction of current technology development across the globe.
- To set up intensive care unit for Orthopaedic supra major cases.

Pathology

- Initiate immunohistochemistry for tumor markers.
- Upgradation of Lipid and Enzyme Biochemistry sections with automated systems.
- Procurement of additional photomicrography microscopes.

Pediatrics

Teaching

- Focusing on CME's on IMNCI, Advance Therapies (Enzyme therapy for LSD), preventive pediatrics (Asthma and Allergies), New born screening (Hypothyroidism and CAH), Chronic disorders (Epilepsy).
- Introducing role play teaching method for teaching undergraduate students.
- Staff Room and Pediatric office block to be set up.
- To procure more computers and LCD Projector for the department.
- Updating of the Departmental Library.

Patient care

- Creating and enhancing specialties viz Genetics, Critical Care and Behaviors Disorders in Children.
- Waiting area for relatives for PICU patients.
- Long pending request for Morning Pediatric OPD'S.
- Separate OPD block for pediatrics and special OPDs.
- Pediatric ART programme with international collaboration.
- Critical supervision of EMS Pediatrics and dedicated Senior Staff/ Residents to interact with parents, relatives.
- Security measures for Patients, Relatives, Residents and Staff.
- Ensuring referral/ transfer of patients with proper counseling and accompanied by House Officers.

Research

- Upgrading Genetic Division (PRL)
- IMNCI Training (WHO, MUHS).
- National programme coordinating centre for pediatrics.
- Research dedicated to pediatric critical care, tropical and infectious diseases

Pharmacology and Therapeutics, Ayurveda Research Centre

Teaching

- Model prescription for common disease conditions for undergraduate students.
- Formulation of Specific instructional objectives for teaching pharmacology to undergraduate Students.
- Development of Centre for Pharmacodynamic studies to strengthen research and learning experiences for postgraduate students.

Patient Care

- Upgradation of Ayurvedic Drug Utilization Services.

Research

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

Physiotherapy

Teaching

- To provide audiovisual facilities in the Lecture Theaters.
- Laboratories with facilities to learn exercise physiology and Electrotherapeutics and Electrodiagnosis
- To provide Computers with advance Information Technology to staff and postgraduate students.
- Restructuring & expansion to accommodate patient care & teaching centre systematically.

Patient Care

- To set up balance and gait analysis laboratory.
- Fitness testing and training laboratory.
- Cardio-respiratory rehabilitation units
- Job analysis and prevention of injury
- Testing and training for physical fitness in students.

Research

- Facilities for objective analysis of physical function testing.

Preventive Social Medicine

Teaching

- Launching new course- diploma in 'Public Health Management' recognized by MOHFW through NIHFWS.
- Developing public health museum and public health laboratory for undergraduate and postgraduate training. Upgradation of teaching and training facilities with state of art equipment in the seminar hall.

Patient care

- Preparation of manuals and SOPs focusing on quality health care.
- Strengthening home based care at Urban Health Centre, Malvani.
- To facilitate availability of social security schemes for ANC patients at Malvani.
- Medical Record system of IDSP to be fully computerized using appropriate software.

Research

- MIS model will be developed for disease surveillance in the institute.

Psychiatry

Teaching

- Initiating a fellowship programme in Deaddiction

Patient care

- Enhancing memory clinic
- Starting ADHD clinic

Transfusion Medicine

Teaching

- A three year course of M.D. in Transfusion Medicine will be initiated after approval from Medical Council of India.

Urology

Teaching

- To develop a centre for training in urology recognized for fellowship by SIU.
- Monthly teaching activity for students of M.Ch.Urology in Mumbai.
- Textbook of Practical urology: Instrumentation

Patient care:

- The department has procured Holium Laser which will be functional from January, 2010
- Flexible endoscopy will be used for operative procedures.
- The department is also planning to maintain computerized database of patients' case records (clinical, radiological and operative details) in the Department of Urology.
- Setting up of patient data archiving system (operative and clinical).

Research

- To conduct a multicentric study on the role of serum PSA as a screening modality in the Indian population.

Physiology

Teaching

- We intend to develop an efficient Exercise laboratory

Research

- To purchase a Body Composition Analyzer
- To upgrade existing equipments for the purpose of research.

Donations and Grants

Donations and Grants

Donations for Patient Care

| Department | Donation/Grant | Given by |
|-----------------------------------|--|--|
| Anesthesia | 'State of the art' anesthesia machine manufactured by Draeger to the Pediatric Surgery Operation Theatre | Narottam Sekhsaria Foundation |
| Cardiology | Rs. 3,05,000/- for care of patients with heart ailment | Mrs. Panaben Haridas Dossa |
| Chest Medicine | Rs.5,000/- for patient care | Mr. Navkesh Batra |
| | Rs.11,000/- for patient care | Mr. Milind Khopkar |
| Cardiovascular & Thoracic Surgery | Rs.79,464/- for instruments used for patient care | SARV Healthcare Pvt. Ltd. |
| Endocrinology | Insulin injections costing Rs. 1,20,000/- for treatment of 132 type 1 diabetes patients | Sanyog Trust, Mumbai |
| Gastroenterology | ERBE electrosurgical machine | Ramprasad Khandelwal Memorial Trust |
| Medicine | Aqua guard to MICU for patient care | Bharat Serum & Vaccines |
| Microbiology | Continuation of project on Rheumatic fever and Rheumatic heart disease | Indian Council of Medical Research |
| Neonatology | Rs. 8,88,000/- for Kangaroo Mother Care project | Shantilal Shanghvi Foundation |
| | Rs. 5,000/- for patient care | Dr. Hakeem |
| Occupational Therapy | Medicine Balls for therapy | Heritage Healthcare |
| Orthopedics | Manman set for JRS OT | DJST |
| Pediatrics | Rs.100, 000/- for patient care | Dr. Mahesh Balsekar Fund - Child Care Trust |
| Preventive & Social Medicine | Rs. 50,000/- for community patient treatment Rs. 10,000/- for community program | Swajan Canara Bank |
| Psychiatry | Rs. 1,19,036/- total donated for patient care, medication and education aid | L.S. Gala Charitable Trust Nana Palkar Smruti Samittee Shree Bidada Sarvodaya Charitable Trust Shree Lalbagcha Raja Sarvajaneek Ganeshotsav Mandal Shree Mahalaxmi Temple Charitable Trust |
| Surgery | Some share of profits towards training workshops in laproscopy | AMASICON 2009 |

Donations for Research Activities

| Department | Donation/Grant | Given by |
|---|---|---|
| Anesthesia | 2 PCA pumps | Macleods Pharmaceuticals Ltd |
| Microbiology | Real Time PCR equipment for Molecular Diagnosis | Sai Pharma |
| | Rs. 4,24,500/- for ICTC | NACO/MDACS |
| | Rs. 2,50,442/- for ART | NACO/MDACS |
| | Rs. 1,50,000/- for EQAS | NACO/MDACS |
| | Rs. 1,35,000/- for Sentinel surveillance | NACO/MDACS |
| | Rs 30,000/- for Bacteriological study of pyoderma cases with special reference to molecular typing of beta hemolytic streptococcal isolates | Research Society, Seth GSMC & KEMH |
| Pharmacology and Ayurveda Research Centre | Rs. 11,39,463/- for Industry Sponsored Research Studies | Pharmaceutical Industries |
| | Rs. 8,00,000/- for Research Studies | Central Council for Research in Ayurveda & Siddha |
| | Rs. 23,59,000/- for PHP Study | Indian Institute of Integrative Medicine |

Donations for Strengthening Department

| Department | Donation/Grant | Given by |
|-----------------------------------|---|--------------------------------------|
| Cardiovascular & Thoracic Surgery | Rs. 32,700/- for Computer Set (including printer, etc) | Pinnacle Biomed Pvt. Ltd. |
| | Rs. 6,500/- for HP LaserJet 1007 Computer Printer | Parag Surgical Co. Ltd. |
| Biochemistry | Rs.10,00,000/- | Department of Science and Technology |
| Dentistry | Computer Printer | Piramal Health Care |
| Medicine | Donations of books to MICU library: | Sanofi Aventis |
| | Harrison's Principles of Internal Medicine | Dr. Atul Khasnis |
| | Current Clinical Medicine | Dr Paul Marino |
| Neurology | Rs. 7,00,000/- for patient care | Ratan Tata Charitable Trust |
| | Rs. 3,00,000/- for patient care | Dorabji Tata Charitable Trust |
| | Rs. 30,000/- for patient care | Mahalaxmi Charitable Trust |
| | Rs. 25,000/- for patient care | Palanpur Charitable Trust |
| | Rs. 21,000/- for patient care | Nana Palkar Smruti Samiti Trust |
| | Rs. 15,000/- for patient care | L. S. Gala Charitable Trust |
| | Rs. 6,000/- for patient care | Ammada Charitable Trust |
| Obstetrics and Gynecology | 7 books costing Rs. 6000/- to GORC library and all issues of Journal of Obstetrics & Gynecology of India 2009 | Dr. S. V. Parulekar |
| Pediatrics | Rs. 100,000/- for Computer, Storage Cupboard, Infrared Thermometers | DPT vaccine trial |
| Physiology | Received a desktop computer as a donation from Dr. A. S. Joshi. | |
| Urology | Lap instruments 30°, 0°, 70° telescopes and OT table to department | Dr.Govind Laungani |

Donations for Conducting Training Programs

| Department | Donation/Grant | Given by |
|--------------|--|------------|
| Microbiology | Rs 22,700/- for "DBS Workshop" | NACO/MDACS |
| | Rs 22,420/- for "Nurses Training Workshop" | NACO/MDACS |
| | Rs 54,175/- for "Basic Training Workshop for Laboratory Technicians" | NACO/MDACS |
| Psychiatry | Rs. 1,50,000/- for "Deaddiction Training Program" | ICMR |

Committees, Societies, Services and Publications

Committees, Societies, Services and Publications

Animal Ethics Committee

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

Total projects received: 2, reviewed 2, and both were approved. Three projects are awaiting review.

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

| Sr. No. | Name of Members | Position on AEC | 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. Pradip Chaudhari | Main Nominee, CPCSEA | Scientific officer, Comparative Oncology & Experimental Nuclear Medicine, AC-TREC, Tata Memorial Centre |
| 4. | Dr. Madhumanjiri Gatne | Link Nominee, CPCSEA | Professor & Head, Pharmacology & Toxicology, Bombay Veterinary college |
| 5. | Dr. V. K. Shrivastava | Nominee, CPCSEA | Scientist outside the Institute |
| 6. | Mr. A. V. Shah | Nominee, CPCSEA | Non- Scientific Socially Aware Member |
| 7. | Dr. S. P. Dandekar | Institutional member | Professor & Head, Biochemistry, Seth GSMC & KEMH |
| 8. | Dr. V. M. Kulkarni | Institutional member | Professor, Surgery, Seth GSMC & KEMH |
| 9. | Dr. P. C. Chauhan | Institutional member | Sr. Veterinary Officer, Seth GSMC & KEMH |
| 10. | Dr. M. J. Sathe | Institutional member | Associate Professor, Microbiology, Seth GSMC & KEMH |
| 11. | Dr. S. N. Kirtikar | Institutional member | Lecturer, Physiology, Seth GSMC & KEMH |

Animal ethics Committee Co-ordinator : Dr. Sharmila V. Jalgaonkar

CARE- Committee for Academic Research Ethics

Established: 14th November 2008

First version of SOPs: October 2008

Second version of SOPs: 1st December 2009

This committee presently functions according to the requirements laid down in Schedule Y of the Drugs and Cosmetics Act (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 twelve meetings were held in the year 2009. A total of 172 Thesis and 93 other Academic projects were submitted to the Committee. Six of the projects were approved at first submission as there were no scientific and ethical issues in the submitted protocols.

Activities of the CARE in the year 2009

| Year 2009 | Total reviewed projects | Under Process | Approved | Rejected |
|----------------|-------------------------|---------------|----------|----------|
| Thesis | 172 | 108 | 64 | - |
| Other Academic | 93 | 33 | 60 | - |

Significant activities

1. *Formulation of new Standard Operating Procedures* – The CARE has formulated new detailed, individual task based Standard Operating Procedures (23 in number) to ensure strict compliance with national and international ethical guidelines and requirement. The Standard Operating Procedures have been implemented with effect from 1st December 2009.
2. *Awards – SIDCER Recognition* - CARE is the first committee in the country to be recognized by SIDCER which is “Strategic Initiative for Development of Capacity in Ethical Review” a network of ethical fora of many countries. The recognition program was organized by the FERCAP (Forum for Ethical Review Committees of Asia-Pacific) and coordinated by the ICMR.

The CARE participated in a rigorous International Survey held during February 2009 prior to which the members underwent a series of trainings (3 workshops). International recognition of the CARE will benefit the faculty members

and students conducting research in the following ways in future.

- Ensuring optimum safety and wellbeing of patients participating in research
 - Ensuring the highest ethical standard in review of research projects
 - Assurance of adherence by the researchers to high scientific standard in conduct of research projects.
 - Better research and funding opportunities from industry, the Government of India and foreign institutions.
3. Dr. Yashashri Shetty Member Secretary of CARE was selected as a trainee surveyor to survey at the Tata Memorial Centre from 23rd – 25th February 2009 under Dr Christina Torres.
 4. The CARE has organized an "Orientation Programme in Clinical Research and Ethics", a three days workshop for Post graduate students of Seth G. S. Medical college and KEM Hospital from 7th – 9th September 2009 at Medicine Seminar Hall.
 5. GCP Workshop for ECRHS and CARE members - The ECRHS organized and conducted one day GCP Workshop for the ECRHS and CARE members of the Seth GS Medical College and KEM Hospital on "Ethics in Clinical Research" on 11th September 2009.
 6. Dr. Kamal Hazari Chair person of CARE has attended IRB workshop organized by the US NIH which was held on 2nd December and 3rd December 2009 at a hotel in Delhi. The partner of NIH in this workshop is Family Health International (FHI).

Constitution of CARE

| 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 | Lecturer, (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 | Assoc. Professor, (Anaesthesiology) GSMC & KEMH | M.D., DNB | F |
| 5. | Dr. Praveen Iyer | Member | Lecturer, (Anatomy) GSMC & KEMH | M.D. | M |
| 6. | Dr. Sandhya Kamat | Member | Associate Professor (Pharmacology & Therapeutics) GSMC & KEMH | M.D. | F |
| 7. | Dr. Janhavi Kedare | Member | Lecturer, (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) | Lecturer (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

The following activities are carried out :

Education: Funding for a meeting on good lab practices was given to the Department of Biochemistry

Research:

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

| Sr. No | Department | Project Name | Sponsors 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 |
| 3 | Gastroentology | "Phase II randomized, placebo-controlled study to evaluate the safety, tolerability and efficacy of different regimens of MK -7009 when administered concomitantly with Pegylated interferon and Ribavirin in treatment –native patients with chronic genotype 1 Hepatitis C virus infection". | |
| 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 |

Interest from a Fixed Deposit of Rs. 8480/- was given as prizes as per the following list:

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

Donation and Grants

| Sr. No. | Name | Income Donation/Grants | Expenditure |
|---------|-------------------|------------------------|--------------|
| 1. | Patient Care | ----- | 1,24,083.00 |
| 2. | Research | 2,95,444.00 | 6,51,,206.00 |
| 3. | Training Programs | 2,05,900.00 | 1,31,687.00 |
| 4. | Awards | 8,480.00 | 4430.00 |

Diamond Jubilee Society Trust

Introduction

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

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

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

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

Diamond Jubilee Society Trust was able to collect a substantial amount of donations in the year (January 2009- December 2009) Rs. 2,34,51,170/- (inclusive of Foreign donations equivalent of Rs. 84,59,583/- and Govt. Research Grant of Rs. 43,02,145/-). These have been utilized for the following purposes:

Patient care

To strengthen the services offered by the institute to patients

1. Donations worth Rs. 8,84,469/- were given in form of essential equipment, accessories and consumables to various departments, laboratories and intensive care units of the institutes as per their requirements.
2. Emergency Medical Services facilities are being supported through the collections of Sanyog Ganesh.
3. Donation was accepted from Narottam Sekhsaria Foundation of Rs. 10,75,000/- towards purchase of the high track Pediatric Anesthesia machine and 3,50,000/- for training of a team for the liver transplant programme at Sir Ganga Ram Hospital, New Delhi.
4. Donation was accepted from Ramprasad Khandewal Memorial Trust of Rs. 9,40,000/- towards purchase of ERBE electrosurgical machine for the Department of Gastroenterology.
5. Donation was accepted from Mr. Rajeev Kothari of Rs. 45,000/- towards patient care.

Medical education

1. Financial support (Rs. 1,45,000/-) was extended for 8 research projects undertaken by postgraduate students, after reviewing the proposals by 3 independent reviewers.
2. New audio systems have been provided to lecture theatres.
3. Financial support was extended for the guest house for external examiners in the campus.
4. 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.
5. Donation was accepted from Mr. Rajeev Kothari of Rs. 45,000/- towards purchase of books for Home Lending Library.

Donations were accepted for the following activities undertaken for students:

1. MUHS approved Fellowship/Certificate courses by various departments
2. Certificate course in 'Clinical Research for Undergraduates', and 'Clinical Research Training Programme' for postgraduates conducted by Department of Clinical Pharmacology.
3. 'Summer Training Programme' for students of science faculty conducted by Department of Pharmacology and Therapeutics.
4. 'Shidori', the co-curricular programme for the undergraduate students.
5. Workshops conducted by the individual Departments:
 - i. 'Medical Statistics for postgraduates' by department of Clinical Pharmacology held on 12th – 16th January, 2009
 - ii. 'Research Methodology' workshop conducted by Department of Neonatology
 - iii. 'Training Workshop on Emergency Medicine & Disaster Preparedness' by Department of Medicine
6. Cultural events like *Advait* (Marathi play competition in December) and *Aavishkaar* in the month of January (intercollegiate skill event).
7. Interns Convocation program.
8. Donations were accepted for financial support to GOSUMAG- 09.

Donations were accepted for the following Faculty development programmes

1. Fourth 'GSMC FAIMER Regional Institute' by Medical Education (ME) Unit
2. '10th and 11th Certificate Courses in Medical Education Technology' Part –I & II by ME Unit.
3. Workshops conducted by the individual Departments:
 - i. 17th 'Functional Endoscopic Sinus Surgery Workshop' by Departments of ENT and Anatomy
 - ii. 'CPCR Training Course' by Department of Anesthesia
 - iii. 'Laparoscopic Training Programme' by Department of Surgical Gastroenterology
 - iv. International CME on 'Pathology of Non-Neoplastic lung lesions' by Department of Pathology held on 12th -14th February, 2009

Medical Research

1. The Trust has received donations (Rs 1,10,49,391/-) for research projects undertaken by various departments. In addition, it received funds from Government organizations towards research projects (Rs. 51,38,427/-).
2. Donation worth US \$ 16,776 (Rs. 8,06,926/-) 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.
 - Surgical Operating Microscope was purchased for Clinical Skill & Research Laboratory of the Department of Anatomy.

Publication

- Annual Report of Seth GS Medical College & K.E.M. Hospital-2008 was published under the aegis of Diamond Jubilee Society Trust.
- 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

- Donation was received from an alumnus (Dr Rajesh Pahwa) from abroad towards GOSUMAG-08.
- Donations were also received from alumni from India towards GOSUMAG-08 and cultural activities of students.
- Donations were also received from alumni from India towards renovation of auditorium in CVTC building – The Sen -Kinare Auditorium.

Work environment

- Website of the institute to propagate the activities of the institute and facilitate communication and interaction with other medical professionals is being supported.
- Assistance for maintenance of front lawn and garden in the KEM campus.
- Provided computer stationary for College office computers

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: 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 2009

A total of thirteen meetings were held in the year 2009. A total of 28 pharmaceutical sponsored projects and 12 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 9 projects out of 40 projects have been approved, and for the remaining 31, replies are awaited.

Status of the ongoing sponsored projects as on 23rd December 2009

- 1 project submitted in 1999 is ongoing.
- 3 projects submitted in 2001 are ongoing.
- 1 project submitted in 2002 is ongoing
- 5/59 projects submitted in 2004 are ongoing
- 3/52 projects submitted in 2005 are ongoing
- 7/64 projects submitted in 2006 are ongoing
- 18/69 projects submitted in 2007 are ongoing
- 20/45 projects submitted in 2008 are ongoing

Status of the ongoing academic projects as on 23rd December 2009

1/142 projects submitted in 2000 is ongoing.

1/185 projects submitted in 2003 is ongoing

1/135 projects submitted in 2004 is ongoing

1/103 thesis and 2/78 other academic projects submitted in 2005 are ongoing.

1/78 thesis and 3/72 other academic projects submitted in 2006 are ongoing.

34/275 thesis and 14/80 other academic projects submitted in 2007 are ongoing.

116/233 thesis and 80/117 other academic projects submitted in 2008 are ongoing

Significant achievements and activities of the ECRHS in the year 2009

1. *Formulation of new Standard Operating Procedures (SOPs)* – The ECRHS has revised the existing SOPs and added 2 new SOPs on ‘Request for Waiver of Written Informed Consent’ and ‘Exemption from the Ethics Review for Research Projects’ making a total of 23 SOPs. A new Informed Consent Document for research study involving genetic testing was added to SOP 5. The revised SOPs have been implemented with effect from 26th June 2009.
2. *Awards – SIDCER Recognition* - It is the matter of pride for us that the ECRHS is the first in the country to be recognized by SIDCER which is “Strategic Initiative for Development of Capacity in Ethical Review”: a network of ethical fora of many countries. The recognition program was organized by the FERCAP (Forum for Ethical Review Committees of Asia-Pacific) and coordinated by the ICMR.
The ECRHS participated in a rigorous International Survey held during February 2009 prior to which the members underwent a series of trainings (3 workshops). International recognition of the ECRHS will benefit the faculty members and students conducting research in the following ways in future.
 - Ensuring optimum safety and wellbeing of patients participating in research
 - Ensuring the highest ethical standard in review of research projects
 - Assurance of adherence by the researchers to high scientific standard in conduct of research projects.
 - Better research and funding opportunities from industry, the Government of India and foreign institutions.
3. *Appointment of a new Sub Committee* under the ECRHS for review of Serious Adverse Events (SAEs) – In keeping with recommendations of the SIDCER surveyors a new sub committee was formulated with Dr. Urmila Thatte as chairperson and Dr. Raakhi Tripathi (Co-opted member) as member secretary. The SOPs regarding formulation and activities of subcommittee were included in SOP 2.
4. *GCP Workshop for ECRHS and CARE members* - The ECRHS organized and conducted one day GCP Workshop for the ECRHS and CARE members of the Seth GS Medical College and KEM Hospital on “Ethics in Clinical Research” on 11th September 2009.

Constitution of the ECRHS

| 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 | Professor (Pediatrics) GSMC & KEMH | 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. Milind Y. Nadkar | Member | Professor, (Medicine) GSMC & KEMH | M.D., FICP | M |
| 9. Dr. Sweta Salgaonkar | Member | Associate Professor, (Anesthesiology) GSMC & KEMH | M.D. | F |

| Name of Members | Position on Ethics Committee | Designation & Affiliation | Qualification | Gender |
|-----------------------------|--|---|---|--------|
| 10. Dr. Yashashri Shetty | Member | Assistant Professor, (Pharmacology & Therapeutics) GSMC & KEMH | M.D., DBM. | F |
| 11. Dr. Avinash Supe | Member | Professor & Head (Surgical Gastroenterology) GSMC & KEMH | M.S., FCPS, FICS, DME, DNBE, DHA. | M |
| 12. Dr. Urmila Thatte | Member | Professor & Head (Clinical Pharmacology) GSMC & KEMH | M.D., DNB., Ph.D. | F |
| 13. Dr. D. N. Upasani | Member (External Legal Expert) | Medical Director, Ghatkopar Hindusabha Hospital, Mumbai | M.S., L.L.B. | M |
| 14. Dr. Raakhi Tripathi | Co-opted Member | Associate Professor, (Pharmacology & Therapeutics) GSMC & KEMH | M.D. | F |
| 15. Mrs. Sadhana Bhatkhande | Alternate Member (Social Worker) | Medical Social Worker, (Psychiatry) GSMC & KEMH | M.A. (in social work), Masters in counseling and Psychotherapy. | F |
| 16. Mrs. Pratibha Rao | Alternate Member (External Layperson) | - | M. SC. (Chemistry) | F |
| 17. Dr. 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

The office bearers:

Hon. President: Dr. Sanjay Oak
Hon. Vice President: Dr. L.M.Shah & Dr. Sharad Gogate
Hon. Secretaries: Dr. Gita Nataraj, Dr. Ram Prabhoo
Hon. Jt. Secretary: Dr. Dinesh B.Salgaonkar
Hon. Treasurer: Dr. Lopa Mehta

Managing Committee members: Dr. R. D. Pandit, Dr. Hrishikesh Pai Dr. Pramod D. Munagekar, Dr. Vaibhav M. Dedhia, Dr. Janak M. Shah, Dr. Ajay B. Tilwe, Dr. Sunil G. Puntambekar, Dr. Vidya N. Acharya, Dr. M.Natrajan, Dr. N.N.Rege, Dr. Mohan Kembhavi.

- Presently the Alumni have a membership of 3700. The period January 2009 to Dec 2009, saw an addition of 205 life members.
- Donation received from Dr. Patwardhan Avi & Nilima US of Rs. 10000/-
- Donation received from Sujaya Foundation Mumbai as generous support towards the free check-up medical camp on the occasion of "World Kidney Day" on 14th March 09 at the Purandare stadium, Dadar, Mumbai.
- On Foundation Day, 22nd January 2009, to get the GOSUMEC family together a contributory Annual Dinner organized with musical programme "Megh Malhar" in College lawn.
- Dr. Sindhu R. Pandit Memorial oration was held on 23/1/09 and delivered by Dr. Shirish Sheth who spoke on "What really matters in medical practice". The orator was felicitated with a silver plaque.
- Educational Activity: Free medical camp on 14th of March 09 between 2.00pm to 7 pm at the Purandare stadium, Dadar, Mumbai on chronic kidney diseases titled 'know your kidneys' During this event distribute educational material, conduct relevant laboratory investigations & conduct clinical examination. 200 people were attend this camp.
- Gosumec alumni association presents a talk by renowned Gynecologist Dr Deepak Dave on "what is success" As part of the series 'skills not taught in medicine' on Date: 7.9.09 in Dr Sen/Dr Kinare Auditorium.
- Gosumec alumni association presents a talk by Dr Avi Patwardhan & Dr Nilima Patwardhan from USA On "GSMC UMMS:Globalization of Medicine" "GSMC – UMMS Student Exchange Programme" on 7.12.09 in MLT.

Orations: Orations organized with collaboration of other societies are as follows:

- ORACON-I 09 :23rd January 2009 in Jivraj Mehta Auditorium
Dr GM Kurulkar Oration, Dr UK Sheth Oration, Dr. Sindhu R Pandit Oration & Dr. P.Raghavan Oration

- ORACON-II 09 :29th April 2009 in Jivraj Mehta Auditorium
Dr. T O Shah Memorial Oration, Dr. Ivan J Pinto Oration & Dr.M.D.Motashaw Memorial Nephrology Oration.
- ORACON 09-III:17th August 2009 at Jivraj Mehta Auditorium
Dr. Maneck P Bhagat Memorial Oration, Dr.PC Bharucha Memorial Oration & GUEST LECTURE: Prof. Mary Hibbard.
- ORACON 09-IV:1st Dec 2009 at Jivraj Mehta Auditorium
Dr.Duart Monterio Oration & Dr. V.N. Bagadia Oration
- Awards & Honors:
The Dr. Redkar Memorial awardees for the year who were felicitated on the foundation day included Dr Prakash Kore (Administrative MO), Shri Subhodh Paradkar(Hospital OA), and Smt. Rekha Parande (College OA).
- The process for registration of the GAA with the charity commissioner is completed and the association duly registered. (Maharashtra State, Mumbai 1684/2008 GBBSD)

Infection Control Committee (HIC)

KEMHIC was established in 1990 with the aim of evolving, implementing and monitoring infection control practices. Chaired by Director (ME & MH,G & K) Dr Sanjay Oak, it has on its membership Dr Gita Nataraj (Microbiology) as Convenor, and Dr J V Hardikar (Professor and Head,Surgery) as Co Convenor . A new co-convenor will now be appointed after Dr Hardikar's retirement. The other members of the committee are Dr Preeti Mehta (Professor and Head, Microbiology), Dr. Anand Rankhambe (Deputy dean), Dr. ND Bhosale (Deputy dean), Dr Ruchi Nanawati (Professor and Head, Neonatology), Dr. A.R. Pazare (Prof. and Haed, Medicine), Dr. S.V. Vaidya (Prof., Orthopedics), Dr. N. B. Agrawal (Prof., CVTC), Dr. Smita Divate (Pathology), Dr Hemangi Warke (OBGY), Mrs. Madhuri Dhoiphode (Supt.Pharmacy), Head Clerk (GS), DSO /SO, P.V Taware (Sister I/C), Sister Jyothi Srivastava (Asst Matron), Sister J.A. Tamroe (Sister tutor), Sister Parab (Sister tutor), ORM, Sub Engineer as its members. Seven meetings were held during the year. A stringent check was kept on infection rate of the hospital, biomedical waste management and sterilization techniques. 'Hand Hygiene Day' was commemorated on 5th May, 2009. Approximately 300 HCWs were personally approached and the procedure and importance of hand hygiene explained. A questionnaire based survey was carried out on the level of awareness. The committee proposes to concentrate more on prevention rather than control and is planning activities to increase awareness and compliance for the same. In the coming year, the committee looks forward to a proactive role in formulating the antibiotic policy in consensus with the clinicians and microbiologists.

Journal of Post-graduate Medicine (JPGM)

The Journal of Postgraduate Medicine (JPGM) was established over 55 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 Vinita Salvi (till Oct 2009) |
| | Dr Majula Sarkar |
| | Dr Pradeep Vaideeswar |

Contributors: The journal receives over 800 manuscripts annually from around the globe. 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 Kingdom (UK) | 57 |
| United States of America (USA) | 51 |
| Turkey | 22 |

| Country | No. of manuscripts submitted |
|--|------------------------------|
| Iran | 12 |
| Egypt | 11 |
| Nigeria | 10 |
| Pakistan , Spain | 9 each |
| Greece, Saudi Arabia | 7 each |
| China | 6 |
| Canada, Italy, Malaysia | 5 each |
| Australia, Taiwan | 4 each |
| Indonesia, Korea, Mexico, Qatar | 3 each |
| Argentina, Croatia (Hrvatska), Czech Republic, Germany, Ireland, Israel, Japan, Morocco, Switzerland | 2 each |
| Belgium, Bosnia and Herzegovina, Brazil, Denmark, Greenland, The Netherlands, Saint Kitts And Nevis, Singapore, Sri Lanka, Sudan, Thailand, Tunisia, Ukraine, Yugoslavia | 1 each |

Reviewers: The journal's 3000-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 four years (2004-07) consistently in terms of a composite SCImago Journal and Country Rank (SJR) and for cites per document in the last two years.

Table 2 : Increasing citations of Journal of Postgraduate Medicine (JPGM)

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|---|------|------|------|------|------|------|------|------|
| Citations for articles of previous 2 years (A) | 1 | 12 | 33 | 75 | 112 | 88 | 99 | 138 |
| % increase from 2001 | - | 400 | 1005 | 2150 | 3450 | 2750 | 3000 | 5150 |

Impact Factor: The JPGMs impact factor for the year 2008 stands at 1.538. With this, the Journal has entered the select list of journals that are assessed for IF. It is noteworthy that the Journal has straightaway claimed second position amongst Indian journals, in the first year of assessment, itself.

Revival of Sections and Introduction of new Sections: special sections like Ethics Forum have been revived. New sections such as ADR section and Students' Forum continue to attract interesting contributions.

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.

Contribution to training of authors: The Journal organized JPGM Writecon 2009, a conference on medical writing with the aim of training young researchers in scientific writing. The two-day conference organized on 3rd and 4th December 2009 was attended by over 130 delegates from India and neighboring countries. The conference was highly appreciated by the delegates.

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.

The Staff Society has signed a memorandum of understanding (MOU) with Medknow Publications and Media Pvt. Ltd. for publishing the journal for the next five years. The journal is now on a firmer financial base.

Medical Education Unit

Highlights and Achievements:

- 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.
- The Medical Education Unit of Seth GSMC & KEMH was selected as one of the 10 **Regional Centre** in the country by MCI & their after upgraded to one of the four **Nodal Centres** in the country. The first 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 September (8th – 10th September, 2009).
- *Inauguration of Medical Education Unit Conference Hall* – on 3rd March, 2009 by Dr. Ved. Prakash Mishra Chairman, Academic Cell, Medical Council of India and Vice Chancellor, Datta Meghe Institute of Medical Sciences University, Nagpur & Dr. K. Ramnarayan, Dean, Malayaka Manipal Medical College & Dr. Sanjay Oak, Director, Medical Education & Major Hospitals. The conference Hall is located on the 4th floor of the college building and is equipped with furnitures which are self contained for audiovisual interaction.

Education and Research

A. Certificate Courses in Medical Education

Medical Education Unit conducted two certificate courses-10th and 11th Certificate Course in Medical Education Technology. 36 teachers from various Mumbai Medical Colleges were trained in the 10th certificate course and 27 teachers were trained in the 11th certificate course. Each course was conducted in two parts. First parts of 10th & 11th Certificate courses were conducted in March and in April 2009 respectively. The sessions included basics of Medical Education Technology (Adult Learning Principles, Educational Objectives, Teaching Learning Methods, Teaching Learning Media and Assessment) in first three day sessions. The participants were also given educational research projects in their parent institutes. Participants returned with group projects and presented them in second session. Part II of the 10th Certificate course was conducted in November 2009 and part II of the 11th Certificate course was conducted in December 2009. During the second session the participants were also exposed to advanced topics of Integrated Teaching, Clinical Skills Assessment and Item Analysis. ME Unit members Dr. Pritha Bhuiyan, Dr. Nirmala Rege, Dr. Avinash Supe, Dr. Shubhangi Parkar, Dr. Sucheta Dandekar, Dr. Preeti Mehta, Dr. Shyamkishore, Dr. Praveen Iyer and Dr. Yuvaraj Bhosale conducted the sessions. Following ME Unit faculty-Dr. Ashwini Karve, Dr. Neena Sawant, Dr. Ratnendra Shinde, Dr. Sandeep Bavadekar, Dr. Milind Nadkar, Dr. Munira Barot, Dr. Aparna Deshpande, Dr. Ajita Nayak, and Dr. Tejal Patel also conducted sessions during the courses.

B. GSMC Faimer Regional Institute

ECFMG (Educational Council for Foreign Medical Graduates, USA) has established a Foundation for the Advancement of International Medical Education and Research (FAIMER) which initiated the program known as the FAIMER Institute consisted of training of faculty in knowledge and skills required of a medical educator through short contact courses and also facilitating curricular improvements in their colleges through project work. Medical education in India has not given adequate priority to its role in addressing the country's vast problems in health care. There is a need to develop programs including topics such as team work, leadership and networking. There is also a need to promote quality educational research in the region. GSMC-FAIMER Regional Institute was initiated this year by incorporating modules in the existing program in stepwise manner. The program is designed to teach education methods and leadership skills, as well as to develop strong professional bonds with other medical educators around the country. It is also intended to promote appropriate changes in medical education in India and other countries of this region through the training of medical college faculty in educational methods and research and by facilitating curricular change in their institutions. The fifth GSMC FAIMER Regional Institute programme was conducted at the Institute from 8th to 17th June 2009. A total of twenty participants from all over Maharashtra and outside Maharashtra participated in the programme. Our FAIMER faculty namely Prof. Janet Grant and Deborah Discerns alongwith Dean & Director Dr. Sanjay Oak inaugurated the programme. The programme module consisted of different sessions on Group Dynamics (Dinesh, Avinash, Sucheta), Good teaching Practices Student Assessment (Payal, Avinash, Ashwini), ML Web discussion (Anshu, Chetna, Avinash), Change Management (Janet, Henal), etc conducted by national and international faculties of GSMC FAIMER Regional

Institute. The newly introduced the sessions were- Distance learning taken by Janet & Praveen, Innovations in Assessment taken by Avinash & Dinesh, Conflict Management taken by Vimal & Shubangi, Microteaching sessions by Nirmala and Pritha and Qualitative Research taken by Janet & Nirmala. There was an interactive session of 2008 batch and 2009 batch. The whole programme was conducted at YMCA, Mumbai Central. It was a great experience as all the participants showed their keen interest towards GSMC FAIMER Regional Institute. It is also proud moment for the institute that the model created by the institute is being now accepted globally and similar institutes are being planned at Brazil, Coimbtore- India, Uganda, South Africa etc.

C. 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 & there after upgraded to one of the four Nodal Centres in the country. The first 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 September (8th – 10th September, 2009).

The inaugural function of "GSMC-KEMH MCI Regional Centre" and the course was held at the Jivraj Mehta Auditorium on 8th September 2009. Dr. Mrudula Phadke, Hon'ble Vice Chancellor, Maharashtra University of Health Sciences was the Chief Guest and Dr Vedprakash Mishra, Chairman, Academic Cell, Medical Council of India and Vice Chancellor, Datta Meghe Institute of Medical Sciences University, Nagpur was the Guest of Honour.

The participants were from medical institutions from Maharashtra and Madhyapradesh. A total of 22 participants attended the workshop. Of these, 9 were from Maharashtra (other than GSMC) and 7 were from Madhyapradesh. The remaining 6 were from the parent institute (Seth GS Medical College and KEM Hospital). It was a 3 days workshop, including sessions on Basics of Medical Education Technology (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.

D. Appointments:

Faculty members of ME Unit are appointed as-

1. Co-ordinator – Dept. of Medical Education – MUHS
2. Board of Studies – Specialty, Super specialty boards, MUHS & Mumbai University
3. Curriculum Revision Committee – Ministry of Health
4. Faculty Development Task Force – Medical Council of India
5. Editorial Team of International Journal "Medical Education"
6. South Asian Advisory Panel for Wolters Kluwer (Health) & Elsevier.
7. Member of Board of Studies : Krishna Medical Institute – Karad
8. Editorial member - Paincyclopedia

6. Publications and 7. Presentations

Contribution of staff members in various National and International Medical education Forums.

1. National faculty for the "National Conference of Health Professionals Education, NCHPE 2009, Pune on 12th and 13th December 2009.
 - Take a talk on "Principles of Educational Research and Publication" - *Dr. Avinash supe*
 - Presented paper on "Certificate Course in Medical Education Technology – Our Experience" - *Dr. Pritha Bhuiyan, Dr NN Rege and ME Unit members*
 - Presented Paper on-"Undergraduate Psychiatry Education-What General Practitioners Have to Say" – *Dr SR Parkar*
 - Presented Paper on "Use of MS Excel for Item Analysis of Single Best Response type of MCQs in Anatomy administered in Formative Assessment of First MBBS Students"- *Dr K Shyamkishore*
 - Presented paper on "Problem Based in Anatomy" - *Dr. Yuvaraj Bhosale*
 - Presented paper on "Current Postgraduate Medical Curriculum in Anatomy: Perception of Postgraduate Students and Anatomy Teachers"- *Dr Praveen Iyer*
2. Invited Faculty at Goa Medical College for Workshop on Medical Education Technology, Topic " OSCE & OSPE," *Dr. Sucheta Dandekar*
3. Invited Faculty at Goa Medical College for Workshop on Medical Education Technology, Topic "Curriculum Planning"- *Dr. N. N. Rege*
4. Invited Faculty at TNMC and took a session on MCQ Formulation – *Dr K Shyamkishore, Dr YJ Bhosale.*

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 | Associate Professor – Clinical Pharmacology |
| 6 | Dr. Padmaja Marathe | Associate Professor – Pharmacology |
| 7 | Dr. Kamaxi Bhate | Associate Professor – P.S.M. Dept. |
| 8 | Dr. N D Bhosle | Dy. Dean |
| 9 | Dr. Milind Salve | Asst. Dean |
| 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. Krishna Narkar | 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. Deficiency other important medicines like Inj. KCl, Dizepam, Vitamin K, Thiamine, Frusemide, Ondansetron, Pantoprazole and many others.

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

Secretary : Dr. K.P. Bhate

Committee Members

1. Dr. Jayashri Mondkar HOD Neonatology, LTMC President
2. Dr. Ruchi Nanavati HOD Neonatology KEMH
3. Dr. Nandanwar HOD Ob & Gy. LTMC.
4. Dr. Daksha Pandit HOD PSM Terna medical College
5. Dr. Rekha Udani HOD Paediatrics, D.Y. Patil Medical College
6. Dr. Padmaja Samant AP Ob& Gy. KEMH
7. Dr. Shobha Kowli HOD PSM Somaiya Medical College.
8. Dr. Sushma Malik Professor neonatology BYL Nair Hospital.
9. Dr. Manish Shriwastav Lecturer PSM KEMH
10. Dr. Prashant Gangal BPNI
11. Dr. Sanjay Prabhu BPNI
12. Dr. Rajlakshmi Nair UNICEF
13. Dr. Shailesh Gupta Indian Association of Paediatrics

Departments of PSM, Obstetrics, Paediatrics and Neonatology from all the medical Colleges of Mumbai and Navi Mumbai are the members of MBPC.

Work done

- Workshops for undergraduate medical students, Resident Medical Officers , Lecturers, Nursing staff and administrative staff on (Infant and Young Child Nutrition) IYCN.
- TOT of the doctors, nursing staffs of the Health Department of MCGM on IYCN.
- Curriculum Planning on IYCN for MUHS for UG students.
- Curriculum Planning for the Certificate course on Mother Support Group Leaders.
- Started Mother Support Group Councillors Services for ANC, PNC, and Paediatrics and Neonatology departments in all the three BMC Medical Colleges.

Research Society

The office bearers and executive committee a member of Research Society for 2009 to 2014 is as follows:

| | |
|------------------------------|---|
| 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. Sona Dave

Research Grants: Four research projects selected for second set 2008-09(Dec) on the basis of merit.

| Sr.No. | Department | Title of Project |
|--------|--|---|
| 1 | Dr. MG Karmarkar AP Microbiology | Molecular typing of beta hemolytic streptococcal isolates with special reference to pyoderma cases in Mumbai |
| 2 | Dr. U.Khopkar HOD- skin & VD | An experimental study for standardi-zation of epidermal melanocyte culture |
| 3 | Dr. NJ Gogtay AP, Clinical pharmacology | Evaluation of Primaquine Pharmacokinetics in the patients of Plasmodium vivax and Plasmodium falciparum malaria |
| 4 | Dr. Manju Sarkar Prof. Anesthesia | Comparative study of cardioprotection offered during on pump cardiac surgeries by two techniques: Inhalational Sevo-flurane versus Remote Ischaemic |

Research Society has received donations for research projects under taken by various departments:

| Sr. No | Department | Title of Project | Sponsors Name |
|--------|--|---|---------------------------------------|
| 1 | Psychiatry Dr. S. R. Parkar Prof. & Head | Protocol No.: 99824 "Sertindole versus risperidone safety outcome study: a randomised, partially-blinded, parallel group, active-controlled study" | Lundbeck India Pvt.Ltd. |
| 2 | Cardiology Dr. P. G. Kerkar Prof. & Head | Current / Oasis -7 study- "A randomized, multinational, double blind study, comparing a high loading dose regimen of clopidogrel versus standard dose in patients with unstable angina or non-ST segment elevation myocardial infarction managed with an early invasive strategy" | St. John's Medical College, Bangalore |
| | | Study code- RCO/2006/0100 : A Study to evaluate the effect of Recon Oil Blend on Lipid Profile in patients of Dyslipidemia | Recon oil industries Ltd |
| | | Marico Trial: A proof of concept, prospective, double blind, controlled, randomized study to evaluate the LDL-Cholesterol lowering activity of saffola oil (Blend of 80% rice bran oil and 20% sunflower oil) in patients with hyperlipidemia | |
| | | Seraphin study: | Chiltern Int. Pvt.Ltd |
| 3 | 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 |
| | | Brivaracetan: 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 Develop. India |

List of the ongoing projects for the year 2009-10 are as follows.

1. Psychiatry Department-
 - Protocol no.S1543002 -Quintiles Spectral (I) P.Ltd
 - Protocol. D 1447C00144 - Quintiles Research (I) P.Ltd
 - Protocol no. R076477-SCH-3015: Quintiles Research (I) Pvt. Ltd.
 - Protocol No.: 99824 - Lundbeck India Pvt.Ltd
2. Cardiology Department –
 - Current / Oasis -7 study– St.John's Medical College, Bangalore
 - Marico Trial: A proof of concept, prospective, double blind, controlled, randomized study to evaluate the LDL-Cholesterol lowering activity of saffola oil (Blend of 80% rice bran oil and 20% sunflower oil) in patients with hyperlipidemia
 - Seraphin study: Chiltern International Pvt.Ltd
3. Neurology Department –
 - Brivaracetan PPD Pharma Develop. India P.Ltd
 - Johnson & Johnson study - Johnson & Johnson Ltd.
- Award: Amount awarded for Dr. Sohrab A.E.Hakim Prize in Ophthalmology – a cash prize of Rs. 500/- given to Mr. Vaibhav Vaidya, IIIrd MBBS Aug.2006 batch student.
- Workshop On Statistics And Research Methodology
 - 15-16 Sept.09 for 3rd year residents in MLT – Speakers- Dr. P.Abraham & Dr. Madhav Welling

- 12-13 Dec 09 for 1st & 2nd year residents in MLT – Speakers –Dr. Karnad, Dr. Bavdekar, Dr. Thatte & Mrs. V. Sriganesh

Orations organized with collaboration of other societies are as follows:

- ORACON-I 09 :23rd January 2009 in Jivraj Mehta Auditorium
Dr GM Kurulkar Oration by Dr PL Jahagirdar on “A walk Down the Memory Lane: Four Decades of Teaching Learning Experience”
Dr UK Sheth Oration by Dr Ranjit Roy Chaudhury on “Enhancing Access to Auality Medicine Delhi Experience”
Dr. Sindhu R Pandit Oration by Dr Shirish Sheth on “What really matters in medical practice”
Dr. P.Raghavan Oration by Dr. Arvinder Soin on “Liver Transplant in India: Current Status and future prospects”
- ORACON-II 09 :29th April 2009 in Jivraj Mehta Auditorium
Dr. T O Shah Memorial Oration by Dr Milind Kirtane on “Silence to sound”
Dr. Ivan J Pinto Oration by Dr Upendra Kaul on “Prevention of cardiovascular events in Indians of arrhythmias – The Journey so far in India”
Dr.M.D.Motashaw Memorial Nephrology Oration by Dr VN Acharya on “Problems of Hospital Infection Control and approach to its management”
- ORACON 09-III:17th August 2009 at Jivraj Mehta Auditorium
Dr. Maneck P Bhagat Memorial Oration by Dr Bharat Dalvi on “New modalities in non-surgical management of congenital heart disease”
Dr. PC Bharucha Memorial Oration: Prof. Steven Flanagan on “Neurorehabilitation – Challenges and the Road Ahead.”
GUEST LECTURE: Prof. Mary Hibbard on “Cognitive Rehabilitation”
- ORACON 09-IV:1st Dec 2009 at Jivraj Mehta Auditorium
Dr.Duart Monterio Oration by Dr.R.A.Mashelkar on “Emerging Innovation Practices & Policies for Health Care Needs of Resource Poor People.
Dr. V.N. Bagadia Oration by Dr. J. K. Trivedi on “Families and Mental Disorders- Challenges in the 21st Century”.

Staff Society

| | | |
|-----------------|------------------|---------------------------------|
| Office bearers: | President | Dr. Sanjay Oak. Director ME &MH |
| | Vice President | Dr. Manjula Sarkar- Anaesthesia |
| | 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

Total Monthly Scientific Meetings: 9

Amrit Modi Award Paper Presentation Meetings: 5

1. 149th Meeting held on 25th February 2009
Paper presentation from the departments of Dermatology, Neurosurgery, GI-Surgery.
Felicitation of Dr. Anjali Joshi-HOD-Physiology who had taken superannuation on 1/3/09.
Amrit Modi Award: Dr. Aadil Chagla – Neurosurgery.
2. 152th Meeting held on 23rd June 2009
Paper presentation from the departments of Biochemistry, Gastroenterology, Chest Medicine & EPRC. And felicitation of Dr. JV Hardikar HOD- Surgery, Dr. BD Samant- HOD Pharmacology and Dr. H.Yadav- lecturer PSM, who had taken superannuation on 30/6/09.
Amrit Modi Award: Dr. Akash Shukla – Gastroenterology.
3. 153rd Meeting held on 25th August 2009
Paper presentation from the departments of Biochemistry, Pediatric Surgery, Anesthesia. All promoted faculty members

and newly joined faculty members were felicitated with flowers by Dr. Manjula Sarkar. Twenty two members were present for felicitation.

Amrit Modi Award: Dr. Sucheta Dandekar – Biochemistry.

4. 156th Meeting held on 20th November 2009

Paper presentation from the departments of PSM, Orthopedic & Spine Surgery, Anesthesia. Dr. Shilpa Adarkar and Dr. Yashashree Shetty present a report on UNESCO world youth festival at Stuttgart. Amrit Modi Award: Dr. Ashok Rathod – Orthopedic & Spine Surgery.

Guest lectures & Felicitation: 4

1. 150th Meeting held on 19th March 2009: Guest lecture by Dr. Bhavin Jhankaria, Video Presentation by Dr. Aadil Chagla and Felicitation of Dr. Kashalikar Prof Physiology who had taken superannuation on 1/4/09.

2. 154th Meeting held on 14th September 2009

Felicitations of Mr. Stephen Sams – Prof. & Head Occupational Therapy and Dr. Gita Krishnamurthy – Prof. Biochemistry with T-Shirts and a logo frame, logo frame and mug resp. who were due to retire on 1st Oct. 2009. Dr. Yash Lokhandwala, Cardiologist, who delivered the guest lecture on “Sudden Cardiac Death”. Dr. Lokhandwala was felicitated by memento (logoframe). Director Dr. Sanjay Oak (ME & MH) and the staff members of Full Time Teacher Association of Seth GSMC & KEMH were felicitated with flower bouquet in view of the efforts taken by them for 6th pay commission.

3. 155th Meeting held on 1st October 2009

Lecture by Dr. Ashok R Mehta, President Medical wing, Medical Director & consultant cancer surgeon, BSES Municipal General Hospital managed by Brahma Kumaris GHRC on “Values in health care” and Lecture by Dr. Mohit Gupta- Consultant Cardiologist BSES Municipal General Hospital managed by Brahma Kumaris GHRC on “Mending Science and Spiritual Health” Followed by Practical demonstration on Rajyoga Meditation by Sister Kavita from Prajapita Brahma Kumaris Parel Center. Felicitated with mementoes.

4. 157th Meeting held on 18th December 2009

Felicitations of Dr. Bhardwaj – Prof. & Head Physiology and Dr. Varadkar – Prof. Biochemistry with logo frame and mug, T-Shirts and a logo frame resp. Promoted members were felicitated with flower. Guest Lecture: “Theme: Abandoned Children and older children adoption by Ms. Savita Nagpurkar, Sr. Project Office, IAPA & Mrs. Najma Goriawalla. Lecture on “Freedom from jealousy hazard by Mrs. S Ransubhe - Manshakti Kendra, Lonawala

Foundation Day programme:

- Contributory Annual Dinner organized by the Staff Society with musical programme “Megh Malhar” and dinner in College lawn.
- **Orations:** Orations organized with collaboration of other societies are as follows:
- ORACON-I 09 :23rd January 2009 in Jivraj Mehta Auditorium
 - Dr GM Kurulkar Oration by Dr PL Jahagirdar on “A walk Down the Memory Lane: Four Decades of Teaching Learning Experience”
 - Dr UK Sheth Oration by Dr Ranjit Roy Chaudhury on “Enhancing Access to Quality Medicine Delhi Experience”
 - Dr. Sindhu R Pandit Oration by Dr Shirish Sheth on “What really matters in medical practice”.
 - Dr. P.Raghavan Oration by Dr. Arvinder Soin on “Liver Transplant in India: Current Status and future prospects
- ORACON-II 09 :29th April 2009 in Jivraj Mehta Auditorium
 - Dr. T O Shah Memorial Oration by Dr Milind Kirtane on “Silence to sound”
 - Dr. Ivan J Pinto Oration by Dr Upendra Kaul on Prevention of cardiovascular events in Indians
 - Dr.M.D.Motashaw Memorial Oration by Dr VN Acharya on “Problems of Hospital Infection Control and approach to its management”
- ORACON 09-III:17th August 2009 at Jivraj Mehta Auditorium
 - Dr. Maneck P Bhagat Memorial Oration by Dr Bharat Dalvi on “New modalities in non-surgical management of congenital heart disease”
 - Dr.PC Bharucha Memorial Oration by Prof. Steven Flanagan on “Neurorehabilitation – Challenges and the Road Ahead” and Guest Lecture by Prof. Mary Hibbard on “Cognitive Rehabilitation”.
- ORACON 09-IV:1st Dec 2009 at Jivraj Mehta Auditorium
 - Dr.Duart Monterio Oration by Dr.R.A.Mashelkar on “Emerging Innovation Practices & Policies for Health Care Needs of Resource Poor People.
 - Dr. V.N. Bagadia Oration by Dr. J. K. Trivedi on “Families and Mental Disorders- Challenges in the 21st Century”.

- **Executive Committee Meetings : 5 Annual General Body Meeting : 1**
- Donations received from Unichem Laboratories Rs. 8818/-, The Parel Chemist Gift shop Rs.30000/- & Satish Manohar Jadhav Rs. 3000/-, & Ipca Laboratories Ltd Rs. 10000/- towards Amrit Modi Award Paper Presentation Meetings expenses with prize amount, Foundation Day programme, guest lectures, orations and other activities of staff society.

Telemedicine

Chairperson: Dr Sanjay Oak, Director (Medical Education and Major Hospitals)

Members: Dr Sandeep B Bavdekar, Professor of Pediatrics

Dr Kamakshi Bhate, Associate Professor, Preventive and Social Medicine department

- The Maharashtra Telemedicine Project is a collaborative project of Indian Space Research Organization (ISRO), Govt. of Maharashtra and Municipal Corporation of Greater Mumbai. The project is one of the initiatives taken under the National Rural Health Mission (NRHM).
- The KEM Hospital Telemedicine Center has been connected with Telemedicine Centers at Aurangabad, Alibaug, Beed, Chandrapur, Karad, Latur, Nandurbar, 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 KEM Telemedicine Committee
- In the period January- November 1049 patients have derived benefit of expert advice from KEM Hospital.

Women's Development Committee

The WDC was established in this hospital in November 2006 and comprises of representatives from the various cadres of teaching, non-teaching, nursing, clerical, labor staff and medical students. The new committee was appointed with effect from August 2009. The tenure of the said committee is for 3 years. The office bearers include:

- | | |
|---|------------------|
| • Dr Sanjay Oak | President |
| • Dr Neena Sawant | Chairperson |
| • Dr Seema Bansode- Gokhe | Vice Chairperson |
| • Dr Saroj Sahdev (Staff) | Member |
| • Dr Anahita Chauhan (Staff) | Member |
| • Dr Kishor Khushale (Staff) | Member |
| • Dr.Siddhi Chikhalkar (Staff) | Member |
| • Dr. Sharmila Jalgaonkar (Staff) | Member |
| • Dr Santosh Salagare (Staff) | Member |
| • Mrs Sadhana Bhatkande (Social Worker) | Member |
| • Mrs Rekha Parande (Clerical staff) | Member |
| • Mr Tanay Dixit (Clerical staff) | Member |
| • Mrs Suman Bhosale (Nursing Tutor) | Member |
| • Mrs. Alka Iyer (Class IV) | Member |
| • Mr. Sakharam Bandagle (Class IV) | Member |
| • Dr. Vikram Nahate (PG student) | Member |
| • Dr. Sujata Tank (PG student) | Member |
| • Ms. Nancy Purvar (UG student) | Member |
| • Mr. Neil Shah (UG student) | Member |

The WDC is looking after the welfare of women employees and students.

It has conducted the following activities this year:

- **6th February'09** : "Hithguj" a program in collaboration with IBN Lokmat sakhi Parivar. The speakers were Ms Meenal Mohadikar, Rajani Pandit, Rohini Ninave and Neelam Shirke.
- **9th March '09 (International Womens day)**: A Symposium on "Caring For Elderly at Home" was arranged for the staff of KEM hospital. The speakers were Dr. Raminder Singh (Physician), Dr S.R. Parkar (Psychiatrist), Mrs Kirti

Gupte (personal experience), Mr Murlidhar Bhat (Dignity Foundation), Mrs Jyotsna Thosar (Physiotherapist) and Mrs Shubhada Khade (Matron).

This was followed by a Marathi Ekankika “ Hya Katarveli” by the alumni of GSMC. It was enjoyed by all the staff and students.

- 10th March 2009 :
I CARE : A programme for staff nurses was arranged in the Medicine Seminar Hall at 2.00pm . Dr Shilpa Rao, Prof in Surgery gave valuable inputs on breast cancer awareness and asked all nursing staff above 40 years to get themselves examined on her OPD days. Dr Bichile then gave a talk on Osteoporosis.
- 12th March 2009:
Dr Sawant gave a talk on stress management for the nursing staff and students in their function on women's day celebrations.
- 13th March 2009 :
Screening Of Marathi Movie “Bai Manooos “ was specially arranged for the staff and students. Shri Arun Nalavade shared his experience of making the film which was enjoyed by all.
- **24th June 09** : Symposium on LOOKING BEAUTIFUL : IN BODY & MIND with Kaya Skin Care. Speakers were Dr. Snehal Sriram (Dermatologist), Dr Samir Karkhanis (Plastic Surgeon) and Dr Mundra (Psychiatrist).
- **1st July 09** : Screening of film “ Not only Mrs Raut.
- **26th August 09** : Yoga Shibir by Shree Ramdevji Baba Patanjali Yog trust
- **30th September 09** : Guest talk on Garbhasanskar by Dr. Snehalata Deshmukh.
- **26th & 27th Nov 09** : Anemia detection camp in collaboration with depts. of Medicine, Pathology and PSM.
- **8th Dec 09**: Guest Talk on “Streeyanchi Laingik Mansikta” by Dr Vithal Prabhu.

Working Committee for the Prevention of sexual harassment at workplace

(PSH Committee of MCGM)

Composition of the Committee:

Chairperson : Additional Municipal Commissioner (Eastern Suburbs)

Working Chairperson : Dr. Suhasini Nagda Dean Nair Dental College

Secretary : Dr. Kamaxi Bhate

Members :-

1. Ms. Sneha Khandekar (NGO Member)
2. Dr. Shubhangi Parker HOD Psychiatry KEM
3. Ms. Kamthe Dy. Labour Office
4. Ms. Asha Malshe Jt. Chief PO KEM Hospital
5. Dr. Neelesh Shah HOP Psychiatry LTMC
6. Mr. P.B.Patil Dy.Chief Engineer Solid Waste
7. Ms. Geeta More Patil Education Department
8. Ms. Sheela Talvdeker Enquiry Department.

Work done

Co-ordination and assessment of 64 committees that evaluate complaints

Training of the Complaint Committee members in rotation (Once a month)

Investigating the complaints (Nine in all from all over the MCGM) and suggesting recommendations.

Soft Launch of Savitri Bai Phule Gender Resource Centre at Elphinston .

Printing of Pamphlets for awareness

P-rinting of Posters to be provided to all the Municipal hospitals and maternity homes (This Poster Was Adopted from Patient Education Centre, PSM Dept ,KEM Hospital Mumbai)

Support Services

Support Services

Dietetics

- Diets were prescribed and counseled to 9000 patients so far. This includes references of indoor, outdoor of medical, surgical, pediatric, orthopedic and other specialty units. MICU, SICU, IPCU etc. references are also done.
- Follow-up of patients on regular basis.
- Wide spectrum of diseases like Hypertension, Diabetes, Gastrointestinal, Cardiovascular, Renal, PEM, Burns, Inborn Errors etc are assessed and accordingly Oral, Enteral or Parenteral diets are planned.
- Daily Quality checking .
- Menu planning as per seasonal vegetables.
- Supervision of food preparation and distribution, food tasting.
- Daily rounds are taken in AKD wards, LICU, IRCU, ICCU, CVTS and Chest Medicine departments.
- Average number of patients seen per day – 30.
- Attending the referrals.
- Total number of patients seen from the period of January 2009- December 2009 are 10,200
- Diet planning for 8 new cases of inborn errors from Pediatric Research Laboratory (PRL).
- Ongoing project work with G.I Medicine , Endocrine & CVTS Departments.

Engineering (Civil)

- Management of day to day maintenance as well as repair and renovation works in the hospital as well as in the premises.
- Following activities were done in 2009:
 1. Renovation of Auditorium
 2. Ward no. 32 (Respiratory & Bronchoscopy area) including paying side room in CVTC Building
 3. Renovation of Blood Bank
 4. Renovation of Microbiology department
 5. Orthopedic department, Spine O.T.'s
 6. Gastroenterology department in M.S. Building
 7. Renovation of Ward no. 17 & 18 Skin department,
 8. Conversion of Swine Flu Ward and Guest House above PRL department

Engineering (Mechanical and Electrical)

- Maintenance activities of Mechanical and Electrical Engineering like Generators, Central air conditioning plants, Lifts, Medical gases, Central Oxygen supply system, Central Suction, Central Compressor, Central LPG, fire fighting system, Capacity EPABX system (Telephone Exchange) & about 200 computers its peripherals, PA SYSTEM AMC/CMC of all medical equipments At present following officers are working in M & E Section.

Achievements of M & E Dept. during 2009-2010

1. Lift replacement at 4 A Wd, College building, AKD and Nursing School
2. EPABX – Digital EPABX installed with additional PRI Cards all Extension provided with DID (Direct inward Dialing) facility- Introduced P.C. Based consoles for ease of handling huge traffic. This facility is provided first time in any hospital.
3. Air conditioning of Mobile Cath Lab 4th floor CVTS
4. Uninterrupted supply of O₂, NO, LPG, Electricity round the year and attended all the complaints promptly.
5. Barrier gates (Boom barriers) provided at gate No. 1,2,3 & 7.
6. Modification in cots for Mosquito nets at RMO Quarters.
7. Air conditioning of state of the art Liver Transplant OT with class –I air quality.
8. Replacement of AHU units at Urology – M.S. building.
9. Replacement of 25 yrs. Old Bldg. and M.S. Bldg. Central AC Plants of 420 Tr. with 1350 TR centrifugal VFD energy saving plant.
10. Procurement of walk in cooler for Medical Store and Diet Section.
11. Replacement of package plant of Lab. 43, Medical General Store, IPCU, MOT, Speech Therapy room (Audiology).
12. Purchase of deep freezer (-20 degree C to -80 degree C)
13. Work of replacement of AHU's Urology ICU, Hematology CT Scan, SICU, Library Bldg., Spine OT (with class 100

air quality), Recovery area, ROC OT Recovery, pathology Lab. Microbiology Lab. NICU, AKD Wd. 34, OG OT.
14. Replacement of air compressors and vacuum pump at CVTC building.

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 linens and some surgical dressing materials are purchased and issued by this department. Doctor's apron, technical staff apron, ward boy's 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.

General stores

The general stores is located on 2nd floor & 4th Floor of the Stores Bldg. The working hours are 10.30-5.30. The general stores plays a supportive role in procurement, storage and distribution of items such as X rays, surgical instruments, lab reagents and stationery. Items not on non schedule are purchased by invitation quotations. It is computerized and has a staff consisting of one head clerk, six clerks and 6 hamaals.

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

1. & 4. Education Highlights & Achievements:

1. Seth G.S.Medical College, Library completed work of Barcoding for Books and for Library users. The work of giving barcodes to bound Volumes is in progress.
2. Subscribed 169 journals, and purchased 194 books. The online access to 179 journals was made available to all on Intranet.
3. The Medical databases, 'M D Consult,' Clinical resources @ ovid, 3d Anatomy, 'BMJ Clinical evidence' were subscribed & access is available to all on Intranet.
4. New online Database, 'Proquest Library Complete' was subscribed for the year 2009. Access is available on 'Intranet'.
5. The computer section was upgraded & 5 new computers with Internet access provided for students on change of Rs. 10/- per hour.

Holdings: Library journals' holdings are available on the KEM Website on Internet. The list updated for 2009. Updated Library books' list is available on Webslim on Intranet.

Donation and Grants : The grant of Rs. 1.5 lacs was received from "National Medical Library" for Interlinking Medical College Libraries in India. It was utilised for appointing 2 persons for preparing barcodes for books & Journals.

A grant of Rs. 45,000/- was received from Dr. Rajiv Kothari. 'GOSUMEC ALLUMINI Member .' We had purchased books for Undergraduate Library, YDM Home lending Section.

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. It is proposed to include all Springer – Verlag journals & Dessertations in the proquest database.

Online access to all the springer journals & Dessertations will be available 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 Commiitteess: The Library Commiittees is an advisory commiittees and following members are present in it. Dr. Dilip Karnad has resigned from the Municiple Service & Dr. Kashalikar has retired due to Superannuation from

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|------------------------|---------------|----------------|
| 1. The Dean | Seth G.S.M.C. | |
| 2. Dr. Ravi Ramakantan | Member | Radiology Dept |
| 3. Dr. S. V. Parulekar | Member | Gynec. Dept. |
| 4. Dr. A. N. Supe | Member | Surgery Dept. |

| | | |
|-----------------------|-----------|----------------------|
| 5. Dr. C. T. Deshmukh | Member | Pediatric Dept |
| 6. Dr. Amita Mehta | Member | Physiotherapy Dept. |
| 7. Dr. Nalini Shah | Member | Endocrine Dept. |
| 8. Dr. Nithya Gogtay | Member | Clin. Pharmac. Dept. |
| 9. Dr. Bhuiyan | Member | Anatomy Dept. |
| 10. Dr. Hase | Member | A.K.D.Dept |
| 11. G. S. of Student | Member | |
| 12. Mrs. S.B.Kolekar | Secretary | Ch.Med.Librarian |

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.

Medical Stores

Medical store plays a supporting role in day to day functioning of the hospital, procurement storage & distribution of drugs and medicines. These are procured as scheduled and non-scheduled items as per hospital requirement and issue accordingly. The following schedules are used and the total budget is 11.5 crores. The injection and tablet section are fully airconditioned. There is a large cold room with the temperature maintained between 2 and 8 C. A total of 9 staff members work in this section.

Schedule I : I.V. & Injection.

Schedule II : Tablet & Capsules

Schedule III : Syrups & Ointments.

Schedule IV : Contrast Media.

Schedule V : Drugs, Pharmaceuticals & Disinfectant.

Schedule VI : Laboratory Chemicals, Stains, Reagent Solutions.

Pharmacy

- Steam sterilisation & E.T.O. gas sterilisation of materials received from wards and O.T.'s.
- Preparation of E.D.T.A., Fluoride, Phenol bulbs and empty bulbs required for collection of blood & urine samples
- Supply of sterile distilled water
- Orientation given about functioning of C.S.S.D., Pharmacy, functioning of stores, various dispensing units
- Dispensing the medicines

Social Service

- The total donation collected was Rs.6,50,70,509
- Donated medicines like Tegretol, Insulin, Normal salines bottles.
- Donation of Intra Ocular lenses for ophthalmology patients, Bed sheets & blankets for wards.
- High protein nutrition, protinex B Nutrition supplements, free fruits and biscuit for indoor patients
- Donation of Rs.5000 was arranged for renovation of EMG Room.
- A domestic flour mill for Diet section and a water cooler for employees rest room was arranged.
- Lunch Project for relatives of patients coming from out of Mumbai
- 208 Blood collection camps and a total of 40,000 blood bags collected.
- Group Educational Activities were conducted for patients and their relatives in wards and in OPD's on a regular basis
- Awareness on HIV/AIDS was organized on 'World AIDS Day'
- Various lectures on Mental Health, Blood donation, HIV/AIDS were conducted

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.

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