

# Annual Report 2011



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



## *The year that was...*



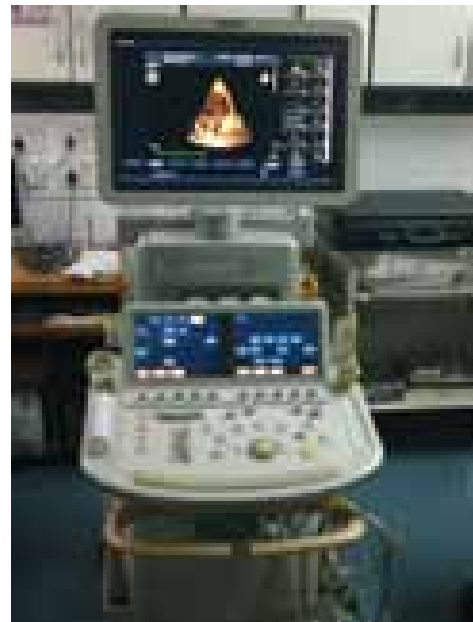
Shidori – 2011



Geriatric Care

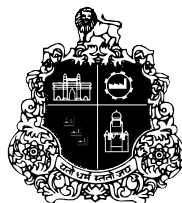


Kyphosis correction



3D echocardiography





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

ANNUAL REPORT  
2011

Concept (Front & Back cover)

**Dr. Sanjay Oak**

Director -Medical Education and Major Hospitals  
Professor of Pediatric Surgery

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

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**Smt. Shailaja Girkar**  
Deputy Mayor

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Regional MLA

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Leader of the House

**Shri Rajhans Singh**  
Leader of the Opposition & MLA

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Chairman-Standing Committee

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(Eastern Suburbs)

**Shri Mohan Adtani**  
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**Shri Rajiv Jalota**  
Additional Municipal Commissioner (Projects)

**Shri Rajendra Vale**  
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(General Administration)

**Shri Sanjay (Nana) Ambole**  
Municipal Councillor

**Shri Vinod Ghedia**  
Chairman, Education Committee





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

The year 2011 was marked by several achievements. These have been in diverse areas with the patient at the centre. A new automated biochemistry analyzer was commissioned and the new cath lab saw a record increase in procedures. The dermatology department established the technique of dermatoscopy for the first time for the diagnosis of hair and skin disorders. The ENT department established a *Hear for all* program for the management of children with congenital anomalies. The department of pathology has set up immunohistochemistry for tumor typing as well as for patients with breast cancer. Several departments and operation theater complexes underwent renovation including GI surgery, plastic surgery, gynecology and obstetrics and pediatric surgery. The library completed bar coding and access to several e books and journals was given online. Comprehensive care for Parkinson's disease with deep brain stimulation is now provided as also comprehensive breast care services, a first for the municipal corporation.

Where do we go from here? Plans for 2012 are rapidly gathering speed. These include completion of ongoing renovations, several new fellowships including an important one in Family Medicine, new DM courses and acquisition of instruments. Plans are afoot to establish yet another cath lab, a chest pain registry, a foot care clinic, a liver intensive care unit, emergency neonatal care services, computer navigation assisted spinal surgeries and many more. Once again, after a span of over 80 years, with aesthetics wedded to excellence, these institutions will stand tall, soar high and dream bigger, and brighter. At the end of the day however, as several thousand patients walk through these hallowed portals with hope in their hearts, it is remains our primary responsibility to ensure that they get the best medical care from kind, caring and compassionate physicians, hands that comfort, soothe and heal. In the words of Rabindranath Tagore, “I slept and dreamt that life was joy. I awoke and saw that life was service. I acted and behold, service was joy. . “.

A handwritten signature in dark ink, appearing to read 'Sanjay Oak', with a stylized flourish at the end.

**Sanjay Oak**

Director – Medical Education & Major Hospitals

## Editorial Team

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Dr. Nithya Gogtay

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Dr. Chetan Kantharia  
Dr. Padmaja Marathe

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Dr. Saket Thaker

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Dr. Gita Nataraj

• **Looking Ahead**

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• **Publications**

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• **Research & Collaborations**

Dr. D.G. Shenvi

• **Support Services**

Dr. Nithya Gogtay

## **Appendix**

Glimpses of History

Contact Information



## Editor's Note . . .



At the dawn of 2012, we are ready to embark on another journey and look forward to yet another foundation day. It is the time of the year to take stock and also look ahead to the future. This annual report in its individual chapters chronicles accomplishments, teaching, research, publications, awards, and much much more. While the general format of the report has remained the same, it has nonetheless chronicled the numerous changes, minor and major that have taken place in the last 12 months.

The experience of putting this document together has been both humbling and enlightening. A huge thank you is due to Dr Sanjay Oak, Director- Medical Education and Major Hospitals for his continued faith in me, his patience, vision and tenacity of purpose. This has helped shape the document. Thanks is also due to heads of departments and staff members for sending information on time. The team that helped me put the report together deserves sincere thanks too - Gita Nataraj, Geeta Phaterpekar, Sunil Karande, Chetan Kantharia, Padmaja Marathe, Raakhi Tripathi, and DG Shenvi. Thank you everyone for meeting the deadline and also staying with me for the last 4 years.

My thanks are also due to my head of the department Dr Urmila Thatte for her inputs throughout the making of the report. I owe a debt of gratitude to the students of my department- Asmita, Siddharth, Saket, Santosh and Dibya for going beyond the call of duty and their relentless efforts at follow up. Lastly thanks are also due to Lakshmesh and Kalpesh at Urvi Compugraphics and Drs Lopa Mehta and ML Kothari for painstaking editing, formatting, and inputs with photographs and the cover design.

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

Efforts have gone into making the report comprehensive, yet discerning. It is hoped that as one sifts through the pages, the quality and quantum of patient care, education and research come through and we look ahead to 2012 with new hope and zest.

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

**Nithya Gogtay**



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



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

## Vital Statistics

Annual Statistical Report for the Year 2011	
Description	Year 2011
Scheduled Beds	2,288
Total No. of Admissions	81,811
Daily Average of Admissions	224
Total attendance, New Cases (OPD)	6,32,796
Average daily OPD attendance	2,102
Attendance, Old Cases (OPD)	11,26,572
Average Attendance New Cases (OPD)	3,743
Total attendance (New & Old)	17,59,368
Total attendance Average	5,845
Surgeries	55,589
	Major 24,767
	Minor 30,822
	Scopies 8,231
Deaths	6,728
Death rate	8.22%
Total attendance in Casualty	2,31,264
Total No of Medico legal cases	30,865
Total No of In-patient days	5,49,237
Average Bed Occupancy	83.6 %
Average patients stay (In- patient)	6.71
Total No of Deliveries	7,037

## Human Resources

### K.E.M. Hospital Staff

#### Medical Staff

1. Director (ME&MHs)	1
2. Academic Dean	1
3. Deputy Dean	2
4. Assistant Dean	2
5. AMO	11
6. Residents	867

#### Superior Staff

1. Administration	127
2. Engineer & Maintenance	29

#### Para-Medical Staff

567

#### Nursing Staff

997

#### Student Nurses

350

#### Labour Staff

##### Permanent

2700

##### Badlee

64

### Seth G.S. Medical College

#### Full Time Teaching Staff

1. Professor	90
2. Associate Professors	135
3. Lecturers / Tutors	156

#### Honorary Teaching Staff

16

#### Superior Staff

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

#### Undergraduate Medical Students

753

#### School of Physio & Occupational Therapy

1. BO Th	40
2. BP Th	40

#### Post Graduation

1. MD/MS	185
2. DM/MCh	35
3. MSc by paper	12
4. MSc by Research	23
5. MO Th	20
6. MP Th	20
7. PhD	22

#### Medical Diploma

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

#### Fellowships & Certificate Courses

25



# B u d g e t

## Year 2010 - 2011

Sr. No.	Account Head	(In Thousands)
	<b>Establishment expenses</b>	
1	Basic Pay(Supervisory and Subordinates)	223488
2	Incentive Bonus (Supervisory and Subordinates)	2420
3	Basic Pay(Labour, Technical and Others)	22341
4	Incentive Bonus(Labour, Technical and Others)	2101
5	Dearness Allowance(Supervisory and Subordinates)	198799
6	House Rent Allowance (Supervisory and Subordinates)	76157
7	Conveyance Allowance (Supervisory and Subordinates)	20
8	Leave, travel Assistance(Supervisory and Subordinates)	4639
9	Municipal Medical Allowance (Supervisory and Subordinates)	1056
10	Other Allowances (Supervisory and Subordinates)	47042
11	Dearness Allowance(Labour, Technical and Others)	15532
12	House Rent Allowance(Labour, Technical and Others)	7844
13	Leave, travel Assistance(Labour, Technical and Others)	1006
14	Transport Subsidy Allowance(Labour, Technical and Others)	2200
15	Municipal Medical Allowance(Labour, Technical and Others)	917
16	Other Allowances (Labour, Technical and Others)	267
17	Leave Encashment	7667
18	Stipend Of Interns	9600
	<b>Total Establishment Expenses</b>	<b>623096</b>
	<b>Administrative Expenses</b>	
1	Property taxes/Municipal taxes	685
2	Office Electricity expenses	12700
3	Official Telephone expenses	475
4	Mobile Phone expenses	45
5	Postage Expenses	100
6	Reference Books & Journals	14700
7	Stationery	30
8	Consumables	75
9	Photocopying Expenses	30
10	Conveyance	30
11	Membership Fees for various organizations/ Associations	2500
12	Ceremony/ events Expenses	50
13	Miscellaneous Administrative Expenses	255
	<b>Total Administrative Expenses</b>	<b>31675</b>

	<b>Operation and Maintenance Expenses</b>	
	<b>Account Head</b>	<b>(In Thousands)</b>
1	Clothing	10
2	Radio Isotope Materials	5000
3	Laboratory equipments	600
4	Diet and Nutrition Supplements	200
5	Linen	5
6	Chemical	700
7	Instruments	1500
8	Equipments	500
9	Ayurvedic Medicines	250
10	General Civil Repairs- Hospitals/ Health	6000
11	Consumption of Stores/ Spares- Hospitals/ health	100
12	General Civil Repairs- Staff Quarters	8000
	<b>Total Operation and Maintenance Expenses</b>	<b>22865</b>

### K.E.M Hospital

	<b>Total</b>
<b>Expenditure</b>	
Establishment	1592730
Administrative Expenses	45218
Total Operation and Maintenance Expenses	674033
<b>Total</b>	<b>2311981</b>

# Achievements and Highlights



# Achievements and Highlights

## Anatomy

### *Education*

- Introduction of the Foundation Course which is a part of Vision 2015 in its routine teaching program for the undergraduates MBBS students
- Conducted the second “Intercollegiate quiz for 1<sup>st</sup> MBBS students.

## Anesthesia

### *Patient care*

- Started Pain clinic outpatient department

### *Education*

- 16 courses conducted of Advanced Cardiac Life support
- 1year fellowship course started with approval from MUHS – Cardiac Anesthesia, Neuro Anesthesia, and Pediatric Anesthesia.
- CMEs, workshops and guest lectures conducted on “The art of pain management, topics in pediatric anesthesia, peri-operative management of the recipient in Liver Transplant, hemodynamic monitoring and success stories of peripheral nerve blocks

## Biochemistry

### *Patient care*

- Commissioning of New Automated Biochemical Analyzer in Central Clinical Biochemistry Laboratory

### *Education*

- Coordinated Shidori 2011
- 7<sup>th</sup> Certificate course in Good Clinical Laboratory Practices and 35 delegates participated from all over Mumbai.
- Seminar on Total Quality Management for Clinical Diagnostic Laboratories

### *Research*

- Collaboration with NIRRH, IIT Mumbai and TIFR

## Cardiology

### *Patient care*

- The installation of the new cath lab has helped number of procedures touch a record high of 2500.
- Tremendous increase in the primary angioplasty program. Finalized a protocol for the chest pain registry in the emergency medical services.
- The largest series in the world of patients undergoing transcatheter closure of RSOV.

### *Education and Research*

- The poster “Percutaneous transluminal septal myocardial ablation for hypertrophic Obstructive Cardiomyopathy : Acute Results and Midterm Follow up” was selected as one of the Seven Award winning posters out of 233 poster presentations at the Cardiological Society of India (CSI) Conference held in Mumbai.
- 3 poster presentations at the 63<sup>rd</sup> Cardiological Society of India (CSI) Annual meeting held at Mumbai.

## Chest medicine

### *Patient care*

- 731 patients educated on asthma and management by the medical social workers
- specialty care provided to Shatabdi hospital

### *Education*

- C.M.E on” Asthma and Allergic Disorders
- An Essay Competition for medical students and post-graduate residents was held to commemorate “World TB Day -2011

- Hands on training on spirometry for all postgraduate students
- CME on medical insurance for asthma and allergic disorders

#### *Research*

- The Environment Pollution Research Centre, studied 3295 individuals as part of the medical survey to assess respiratory morbidity due to effect of air pollution.

### **Clinical Pharmacology**

#### *Patient Care*

- Setting up of a warfarin clinic for predicting drug induced bleeding.
- Geno typing facility for predicting drug toxicity due to HIV drugs.
- Immunophenotyping for leukemia patients

#### *Education*

- Successful completion and conduct of 1 year fellowship in clinical science funded by DBT, Govt. of India
- UG Course in Clinical Research under the aegis of MUHS.
- Several workshops on statistics, Good Clinical Practice, Research Methodology and Outcomes Research.
- Initiated MUHS fellowship on drug development.

#### *Research*

- Completion of work on evaluation of primaquine kinetics in liver and renal dysfunction
- Successful completion of a Phase I study with a monoclonal antibody against the Rabies virus.
- 5 papers presented at International meetings held outside India.

### **CVTS**

- Completed renovation of Ward 31, ICU and CVTS OT

### **Dentistry**

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

### **Dermatology**

#### *Patient care*

- Initiated and established the technique of Dermatoscopy of inflammatory and pigmentary diseases for the first time in India. This non-invasive technique is important for diagnosis of skin and hair problems.

#### *Education*

- New edition of undergraduate textbook "Skin Diseases & Sexually Transmitted Infections" on dermatology by Dr Uday Khopkar
- Dr Siddhi Chikhalkar successfully completed IADVL training fellowship in Dermatopathology at CMC Vellore in Sept – Oct 2011
- Dr. Vidya Kharkar served on the editorial review board for STI Journal and Journal of aesthetics and surgery.

### **Endocrinology**

#### *Education*

- CMEs organized on Radiotherapy in Pituitary disorders, Chromosome abnormalities and Human Diseases, diabetes and Hypertension
- Inter college QUIZ for under graduate students of three MCGM Medical Colleges and Grant Medical College on Diabetes Day
- Symposium on Incretins

## ENT

### *Patient care*

- Launched “HEAR FOR ALL” for deaf children with congenital anomalies

### *Education*

- Staff members delivered invited lectures and conducted CMEs and workshops round the year

## Gastroenterology

### *Patient care*

- More than 7000 patients seen and registered in the liver clinic
- Liver transplant OPD started in collaboration with GI surgery services every Monday afternoon.
- Special Care Liver OPD every Friday afternoon.
- The department acquired a Video endoscopy system with magnification from MCGM funds. It is the first such system in MCGM.
- Introduction of high resolution manometry and antroduodenal manometry
- Dr Akash Shukla received special training in hepatology, liver ICU management and post liver transplant care at Barcelona.

### *Education*

- Seminar on prevention and management of Hepatitis B

## GI surgery

- Department installed modular OT complex along with 2 ICU facilities
- One Cadaveric liver transplant was carried out in January 2011

## Library

- Bar coding completed
- Purchased new, ‘Library Security System with tattle tapes’ at ground floor Library.
- Online access to 210 journals was made available to all on Intranet.
- Purchased 93 E-Books and access is available through Intranet.

## Hematology

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

## Medicine [including the MICU]

### *Patient care*

- Care of critically ill patients like complicated tropical illnesses e.g. malaria, leptospirosis, dengue, septicemia, poisoning, fever and acute lung injury/ ARDS needing ventilator therapy.
- Management of obstetric and gynecological patients presenting with medical emergencies as also post vascular and neuroradiology interventions.

### *Education*

- Dr. Smrati Bajpai completed Fellowship in Clinical Sciences under the aegis of Department of Biotechnology in January 2011 and Dr. Manish Itollikar completed Fellowship in Critical Care under the aegis of MUHS in August 2011.

### *Research*

- ICMR collaborative projects, several clinical trials. The paper “Linezolid induced serotonin syndrome” won 2<sup>nd</sup> prize for Best Poster Paper at MAPICON 2011.
- Critical Care Training Programme 2011 17<sup>th</sup> to 19<sup>th</sup> December 2010 with rounds in the MICU and NICU

## Microbiology

### *Patient care*

- Participated and performed successfully in the External Quality Assurance Scheme for diagnostic tests conducted by the Indian Association of Medical Microbiologists, RNTCP and QASI.
- Completed standardization of molecular detection of MRSA.

### *Education*

- revision of UG curriculum under MCI Vision 2015
- revision of laboratory manuals for HIV published by National AIDS Control Organization, Govt. of India.
- 2 CME programs in tune with WHO themes- antimicrobial resistance and hand hygiene.

### *Research*

- successfully completed one ICMR sponsored project and obtained approval for two more projects.

## Neonatology

### *Patient care*

- Dr. Ruchi Nanavati is National faculty for Facility Based Newborn Care Program under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India supported by Norway India -Partnership Initiative (NIPI) & UNICEF
- Department of Neonatology recognized as the regional “Collaborative Center for Facility Based Newborn Care” under National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF

### *Education*

- Organization of 3<sup>rd</sup> Annual Lecture Series in Research Methodology consisting of 11 lectures

### *Research*

- Work by Balan R et al won the Dr Manchanda Neonatology Research Gold Medal Award at 48<sup>th</sup> Annual National Conference of Indian Academy of Pediatrics, held at Jaipur on Comparative Efficacy of Kangaroo Mother Care versus Expressed Breast Milk administration on pain associated with removal of adhesives in Very Low Birth Weight Infants : a randomized Trial

## Nephrology

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

## Neurology

### *Patient care*

- Invasive Electrophysiology and Advanced Epilepsy Surgery- the only center in Maharashtra to start Corticography and Cortical dysphasia surgery in adults. Six surgeries done with extremely good result.
- Comprehensive Parkinson's Care Centre :In collaboration with neurosurgery department “Deep brain stimulation done for Parkinson's patients. It is the only centre in government Hospital offering this surgery. Pallidotomy for cervical dystonia” was performed recently at this centre for the first time
- The department has started Pediatric Neurology OPD.

## Neurosurgery

### *Patient care*

- Innovative techniques developed for treatment of complex craniovertebral anomalies including basilar invagination, Chiari malformations and atlantoaxial dislocations. Plate and screw fixation of C1-C2 junction and distraction of the craniovertebral junction by spacer devised in the department has revolutionized treatment of these disorders.
- Extensive experience in the treatment of complex tumors that include trigeminal neurinomas, foramen magnum meningiomas, sphenoid wing meningiomas and cerebellopontine angle tumors.
- Acquisition of the latest Ultrasonic suction apparatus (CUSA), and C- arm for intraoperative radiography and angiography and neuroradiological endovascular interventions.



- Zeiss operating microscope Pentero, Erbe cautery machines and Martin Operation Theatre Lights with camera have been added to the operation theatre.

## **Nursing**

### *Education*

- Implemented 3 ½ years new syllabus for Diploma in General Nursing and Midwifery.
- Computer education as well as research study education is included in this syllabus in 2<sup>nd</sup> year

## **Obstetrics and Gynecology**

### *Patient care*

- novel method of tubal ligation
- novel technique of vaginal myomectomy

### *Education*

- Skills workshops for resident doctors and staff members on labor, case record sheets, infection control and PPTCT, suture and ligation techniques, use of the computer, and GIFs for teaching operative techniques.
- CMEs on labor management, operative video workshop, research methodology and manual vacuum aspiration and postpartum IUD insertion.

## **Occupational therapy**

### *Patient care*

- acute, sub-acute and late rehabilitation care

### *Education*

- Lecture on Introduction to epidemiological research
- workshop on bands, balls and balance for hand and upper extremity rehabilitation

### *Research*

- study on the effectiveness of play based therapy on play behavior of children with Down's syndrome
- study on effectiveness of aerobic exercises on mild hypertension
- several papers and poster presentations

## **Ophthalmology**

### *Patient care*

- Daily outpatient clinics and surgeries

### *Education*

- MBBS, DOMS, DO, MS, Training
- Dr Arjun Ahuja appointed on the editorial board of AIOJ

## **Orthopedics**

### *Patient care*

- the department has protocolled patient management in subspeciality of spinal surgery, arthroplasty and arthroscopy.

### *Education*

- Courses conducted- spine, arthroplasty, arthroscopy, cadaveric workshop in Arthroscopy and spine, pelvi-acetabular course, computer navigation, foot and ankle injuries, cadaveric workshop, cervical myelopathy and pedicular screws fixation.

## **Pathology**

### *Patient Care*

- Upgradation and automation of the Surgical Pathology Cytology, Cardiovascular pathology and Hematology Departments for better services and timely delivery of reports.
- Initiated ANA ds DNA test in Immunology Lab at CVTC building.

- Established Immunohistochemistry test for breast cancer patients.
- Established Immunohistochemistry for Tumor typing

#### *Education*

- Organization of “International Multispeciality CME’ from 10<sup>th</sup> to 12<sup>th</sup> February 2011 for postgraduate students and practicing pathologists.
- Organization of “Placental Pathology CME”
- CME on “Clinical assessment and diagnostic tools for cardiovascular diseases
- Organization of “Monsoon illness”

### **Pediatric Surgery**

- Department fully renovated with fully refurbished ward, ICU and OT.
- Organized the International Pediatric Urology Live Operative Workshop in Nov 2011 along with dept of Urology.

### **Pediatrics**

#### *Patient care*

- management of Gaucher’s children with enzyme replacement therapy
- screening of more than 20,000 newborn babies for congenital hypothyroidism and congenital adrenal hyperplasia

#### *Education*

- Organized CMEs and workshops on growth monitoring and developmental delay, learning disabilities, critical care, pediatric infectious diseases, clinical genetics, ORS and management of cystic fibrosis

### **Pharmacology**

#### *Education*

- PHARMATECH 2011, a national workshop for postgraduates in pharmacology was organized at Seth G.S. Medical College and K.E.M. Hospital, from 22<sup>nd</sup> to 31<sup>st</sup> March 2011.
- AS Paranjpe “Pharmacology Intercollegiate Quiz” for II MBBS undergraduate students from Mumbai zone was organized on 20<sup>th</sup> August 2011. Team of II year MBBS students of Seth GSMC and KEMH trained by the departmental members bagged the regional level trophy.

#### *Research*

- Six awards to departmental members for the research work in the field of phytopharmacology, Ayurveda, ethics and rational use of medicines.
- Mr Khushal Gohil, 2<sup>nd</sup> MBBS was awarded Kishor Vaidyanik Protsahan Puraskar (KVPY project) for his project completed under the guidance of Dr Sandhya Kamat.

### **Physiotherapy**

#### *Patient care*

- Interventions for brachial plexus injury, hand injuries, neuromuscular injuries, premature babies on the ventilator, osteoporosis, and stroke rehabilitation.

#### *Education*

- commencement of PhD program
- workshops on GCP and ethics, literature search, kinetic control, cancer rehabilitation and communication skills, obesity and osteoporosis\_

### **Preventive and Social Medicine**

#### *Education*

- PhD courses in Community Health recognized by the MUHS
- Posters, banners developed on hand washing and hospital waste management along with hospital infection control committee by Patient Education Centre.

### *Research*

- Collaborative partnership for promotion of AYUSH with Centre Council of Research in Ayurveda through Ayurveda Cancer Research Institute.

## **Psychiatry**

### *Patient care*

- deaddiction networking project

### *Education*

- Indo- Israel workshop on trauma preparedness
- awareness program on World No Tobacco day
- awareness program on mental health education
- CME on bipolar disorders

## **Radiology**

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

## **Transfusion medicine**

### *Education*

- Taken lead in starting a postgraduate's course in Transfusion Medicine leading to the award of M.D. in Immunohaematology and Blood Transfusion for the first time in Maharashtra

## **Urology**

### *Patient care*

- The department has started the advanced laparoscopic programme along with advanced oncology and reconstructive surgical programme.
- 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.
- Procured laparoscopy trainer to train postgraduate students in basic Laparoscopy procedures before they perform them on patients.
- Offers low cost penile implants to patients.
- Procured 'Revolix Laser Machine' dual Thallium and Holmium laser for comprehensive management of prostate, bladder cancer and stone surgery.
- Over 16,500 patients were treated on the all urology OPD's during the year and over 1500 operations were performed including kidney transplantations.

### *Education*

- workshop conducted on stricture urethra
- pediatric urology workshop
- live workshop on TURP
- Two papers, three video and four posters were presented in National / Zonal Conferences won prizes.

### *Research*

- several randomized controlled trials
- metabolic evaluation of patients with renal stones
- role of PSA screening in patients with carcinoma prostate



# Awards and Honors



# Awards and Honors

## Anatomy

Ist MBBS Students won the first prize in the “Intercollegiate Anatomy Quiz- 2011”

## Anesthesia

Dr Rupali Likhate and Dr Seema Waidande won the 3<sup>rd</sup> prize for the state quiz for “Anesthesia in Plastic and Reconstructive Surgery”.

## Cardiology

The poster on “Percutaneous transluminal septal myocardial ablation in hypertrophic obstructive cardiomyopathy: Acute results and mid term follow up” presented at the Cardiological Society of India Conference at Mumbai was selected for an award.

## Chest Medicine

Mr. Manohar Pawar –Laboratory Technician was awarded the best employee of the year at the institute’s foundation day.

## Clinical Pharmacology

- Dr. Kannan Sridharan won Dr. Manjeet Singh Prize for oral presentation on “Association of genetic polymorphisms of CYP2C9 and VKORC1 with bleeding due to warfarin” in the 44th National Conference of Indian Pharmacological Society held at Manipal, Karnataka during December 2011.
- Ms. Shital Bendkhale won “Best Thesis Award” for MSc.
- Mr. Nitin Mali won 1st prize (Dr. Ashok B. Vaidya prize) at ACCP for poster presentation on “Evaluation of the activity of Cytochrome P450 2D6 (CYP2D6) in normal, healthy adult Western Indian population.
- Dr. Kannan Sridharan won 2nd prize for the paper (oral presentation) entitled, “Demographics of the animal bite victims in a tertiary care hospital” at South Asian chapter of American College of Clinical Pharmacology conference held in Mumbai.
- Dr. Kannan Sridharan won 1st prize for poster presentation at staff society meeting held at Seth GS Medical College & KEM Hospital for the paper entitled, “Pharmacokinetics of single dose of 15 mg primaquine in special populations and normal healthy volunteers”.
- Tasleem Katchi won the first prize in the poster presentation category at TRINITY 2011, the Undergraduate medical students conference at LTMG Hospital, Mumbai Feb 2011 for her work on “ Evaluation of the polymorphism of CYP2C9 in a Western Indian population”
- MEDICON 2011, The Forum for Medical Students’ Research, 4th International Conference, 11-14th May 2011, JJ Hospital, Mumbai.
- Tanvi Modi : best paper (oral) for the work on “Evaluation of genetic polymorphisms of CYP2C9 and VKORC1 and association with warfarin toxicity
- Bindiya Doshi : best paper (poster) for the work on “Evaluation of pharmacokinetics of single dose 15mg primaquine in patients with hepatic dysfunction and healthy human participants”
- Shaunak Kulkarni, II<sup>nd</sup> MBBS- “Why do normal healthy participants consent to participate in non therapeutic studies?” (Poster at DIA meeting, Chicago, June 2011)

## Dermatology

- Dr Siddhi Chikhalkar won the Priyadarshini Asmita Award by Maharashtra Journalist foundation and the Gyan Jyoti Savitribai Phule Award by Adarsh Foundation Samajik Sevabhavi Sanstha, Kolhapur.
- Dr Suchitra Kardekar won an appreciation prize for poster disseminated molluscum contagiosum in autosomal recessive type of hyper IgE patient at Cuticon 2011.
- Dr. Pinanky Jadhav was awarded an appreciation award for “Angiosarcoma on nose- successful outcome” at Cuticon 2011.
- Dr Vidya Kharkar – won the first prize (above 40 age group) at mini marathon at 85th foundation day of the institute.

## GI Surgery

- Presidential Oration of IHPBA for Dr Avinash Supe – Developing HPB units in India
- Awarded Masters In Health Professions Education by University of Illinois, Chicago – August 2011

## Endocrinology

- Dr. Varsha Karande Patil- won the best case presentation at Amrita Clinical Endocrinology training programme.
- Dr. Nalini S. Shah: was elected as President of Indian Society of Pediatric and Adolescent Endocrinology for year 2009-11.

## Medicine

- Residents from won the medical quiz at MAPICON 2011, the Torrent young scholars award and the Western zone hematology quiz.
- Professor Raminder Singh was awarded the fellowship of the Indian College of Physicians
- A paper by Salagre S et al on “Assessment of Left Ventricular Function in Hypertensive Subjects’ was awarded the first prize at HSICON 2011.

## Microbiology

- Limaye K et al won the R. C. Garg Memorial award for the best original article entitled, “Utility of microscopic observation of drug susceptibility assay for M.tuberculosis in resource constrained settings” published in Indian Journal of Tuberculosis, October 2010.
- Garg A (PG student) won 1<sup>st</sup> prize for quiz at TROPACON- 2011, Annual Conference of Indian Academy of Tropical Parasitology held at Nagpur in November 2011
- Hardas Pathak Oration award 2011 to Dr. Preeti Mehta, Professor and Head, Department Of Microbiology as a lifetime achievement for her contribution to the development of Microbiology in Maharashtra in the field of research and training at MICROCON 2011.
- Wagle S (PG student) won 1<sup>st</sup> prize for poster presentation entitled, “Post laparoscopic abdominal wall zygomycosis due to Apophysomyces elegans in an immunocompetent patient: A case report” at MICROCON 2011, 17<sup>th</sup> Maharashtra Chapter Conference of IAMM
- Raut S (PG student) won the 1<sup>st</sup> prize in quiz at the Infectious Disease Certificate Course conducted by P.D Hinduja National Hospital and Medical Research Centre, Mumbai

## Neonatology

Dr Ruchi Nanavati

- National faculty & In charge of Regional Collaborative Center of Facility Based Newborn Care Project under National Reproductive and Child Health Program, Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF
- Member of the MCI reconstituted Board of Specialty in Neonatology for drafting / updating the curriculum for DM Courses in the specialty of Neonatology.
- President of National Neonatology Forum Mumbai
- President of Mumbai Breastfeeding Promotion Committee.
- EC member of National Neonatology Forum Maharashtra Branch

## Urology

- Dr.Sujata Patwardhan honored by Savitribai Phule Stree Sansadhan Kendra, Mumbai on Women’s Day (08/03/2011)

## Neurosurgery

Prof Atul Goel

- Conductor Live surgery workshop, Kolkata-5,6 August, 2011
- Guest speaker at several national and international meetings

Prof. Aadil Chagla

- Visiting Professor, Goa Medical College
- Guest speaker at several national and international meetings



- Man of the match sporting program ISPN GOA Panaji Oct 2011 GOA

## **Nuclear Medicine**

- Dr Shwetal Pawar (Assistant Professor) was awarded the Pediatric Nuclear Medicine Fellowship (Bill Marshall Fellow) of the Great Ormond Street Children Hospital and UCL (Institute of Child Health), London.

## **Nursing**

- Mrs. Sushila U. Sheth Prize for Final year Nursing Student scoring highest marks 1309/1600 awarded to Miss. Amkar Shubhalata Subhash
- Mayor's Award -- Miss. Sunayana Prabhakar Dumbre
- GNM exam toppers- PP Mohan. Pooja Gosavi, Sushma Ghadi, Shubhalata Amkar

## **Occupational therapy**

- Mrs. Jayashri S. Kale (Professor & Head): Appointed as an Expert for Medical Board of Hemophilia Federation of India
- Ms. Punita V. Solanki (Assistant Professor): A certificate was awarded for contribution to the scientific program as a Judge for pre conference scientific paper evaluation for the 48<sup>th</sup> Annual National Conference of All India Occupational Therapists Association held at Chennai from 9<sup>th</sup> to 11<sup>th</sup> January 2011.
- Shriharsh S. Jahagirdar (Tutor): was invited as an expert by Star Majha, Marathi Television Channel for live career counseling program "Career Majha" on paramedical courses as a career option on 7<sup>th</sup> June 2011 between 3.00 pm to 3.30 pm. Also awarded Best paper in Mental Health" at 48<sup>th</sup> Annual National Conference of AIOTA held on 9<sup>th</sup> to 11<sup>th</sup> January 2011 at Chennai for a paper titled "Therapeutic Play – An Occupational Therapy intervention to build group dynamics in adolescents"
- Mrs. Zarine D. Ferzandi (Associate Professor) - Invited as an expert Occupational Therapist for implementation of "Rehabilitation Project" at up gradation and modernization of Occupational Therapy departments of regional mental hospitals of Maharashtra State on 5<sup>th</sup> November, 2011 by the Additional Director, Health Services (State Hospitals), Mumbai
- Ms. Punita V. Solanki (Assistant Professor): Was appointed as a member of Special Medical Board constituted by the Competent Authority, MHT-CET' 2011 by Directorate of Medical Education & Research (DMER) on 2<sup>nd</sup> August 2011, to do disability evaluation of a student claiming admission for MBBS course in MUHS, in Physical Handicap Quota. Evaluation was done by a team including two Orthopaedic Surgeons, a Physician, a Physical Therapist and an Occupational Therapist.

### *MUHS Student Awards:*

Undergraduate & Postgraduate Examinations (May-June 2011) First Rank Holders: Mr. Saumil Bimal Asher, Ms. Charmi Karsan Savla, Ms. Mamta Jagdish Gupta, Ms. Hiral Surendra Sangoi, M.O.Th. (Developmental Disabilities): Ms. Vaishali Bhaiyalalji Lokhande

- Interns Batch 2011: Aishwarya Swaminathan, Chaitrali Kulkarni, Mrudula Khedekar, Preksha Chheda and Shriharsh S. Jahagirdar (Tutor): Presented a case series (dissertation) titled "To study the effects of client centered approach in neurodegenerative conditions using Canadian Occupational Performance Measure (COPM)" at the Trinity Oracle'2011 held on 19<sup>th</sup> February 2011, at Lokmanya Tilak Municipal Medical College, Sion and won the best paper award in allied health faculty.
- Ms. Poonam D. Sawant (MOTh Student), Mrs. Jyothika N. Bijlani (Former Professor): Awarded Kailash Merchant Trophy for Best Paper in Neurology at 48<sup>th</sup> Annual National Conference of AIOTA for the paper titled "To study the effects of non linguistic and linguistic auditory stimulation as an adjunct to developmental support program in high risk infants on their pre-linguistic behavior and linguistic performance.
- Mr. Alok S. Patil (MOTh Student), S. B. A. Sams (Former Professor & HOD): Awarded KEMOT Youth Talent Award for the Best Paper at 48<sup>th</sup> Annual National Conference of AIOTA for the paper titled "Effects of isometric elastic resistance training on chronic neck pain.

## **Pathology**

- Dr Toshii Mishra won several prizes at MAPCON
- Dr. Sneha Dhariwal received 2<sup>nd</sup> prize for Oral paper hematology "Sickling phenomenon-A surprise at autopsy" in MAPCON 2011, Dhule

- Dr. Sachin Chaudhari, received 3<sup>rd</sup> prize for Oral paper presentation at Cytocon 2011 at National IAC Conference at Dharwad “ Role of dyplastic megakaryocyte and eosinphilic precursors in diagnosis of myeloid sarcoma on lymphnode FNAC.”

### **Pediatric surgery**

Dr Jiwanlal Patel won the first prize for the best paper on “Thoracoscopy in traumatic diaphragmatic hernia: our experience of 3 cases at the National Conference of IAPS, October 2011.

### **Pediatrics**

- Dr. Milind S. Tullu: Awarded title - “Fellow of Indian Academy of Pediatrics (FIAP)
- Dr. Chhaya Mehta & Dr. Mamta Muranjan: First prize for Dr. Amrit Modi – GSMC Award Paper Presentation - Missed immunizations, Opportunity may not knock again, Co-author, First prize for Dr. Amrit Modi – GSMC Award Paper Presentation, conferred by the Staff Society of the institute.
- 2<sup>nd</sup> Prize awarded to the Poster- Shobi Anandi et al. A Rare Cause of Recurrent Pyogenic Meningitis. CHILD NEUROCON 2011 (National Conference of Association of Child Neurology)
- 3<sup>rd</sup> prize for Poster presentation on “Unusual Presentations of CNS Tuberculomas”. Authors: Jade J.D., Khandagale A., Ghunawat J.R., Vaswani R.K., Deshmukh C.T., Mehta C.P.

### **Pharmacology & Therapeutics**

- Gufic award for research work on indigenous agent was won by Dr Harshveer Malhi, 3<sup>rd</sup> year resident at 44<sup>th</sup> Annual Conference of Indian Pharmacological Society. .
- 1<sup>st</sup> prize for the paper presented by Tripathi RK et al on Evaluation of serious adverse event (SAE) reports: An ethical perspective at the 1<sup>st</sup> FERC National conference on Research Ethics in Mumbai.
- 1<sup>st</sup> prize for the paper presented by Marathe PA et al Compensation for Participation in Research: A Review of Protocols and Informed Consent Documents Submitted for Review to two Ethics Committees presented at 1st FERC National conference on Research Ethics at Mumbai.
- 2<sup>nd</sup> prize in essay competition organized by Ayurvediya masik, Pune in June 2011 to Dr Sudatta Shirolkar for the essay entitled, “*Bharat Sarvatra English Madhyamatun Ayurvediya Shikshan- Yogya ki Ayogya*”?
- First Prize for the best paper presented at the PG award paper session for a paper presented by Malhi HM et al. Audit feedback: A useful method to change prescribing practices at the 166th scientific Meeting of the Staff Society at the institute.
- 3<sup>rd</sup> prize in poster presentation by Gawde S et al. Knowledge, Attitude and Practices toward Ayurvedic Medicine Use among Resident Doctors: A Survey at a Tertiary Care Hospital at Staff society presentation at the institute.

### **Physiology**

Late Dr. Dharani's Cash prize of Rs. 5000 was awarded to Dr. Devendra Patil for standing 1<sup>st</sup> in university exam of M.D. Physiology, amongst the students of G.S.M.C. Late Dr. Dharani's Cash prize of Rs. 1000 was awarded to Ansari Shehbaz Mohd. Salim for standing 1st in Physiology in 1<sup>st</sup> M.B.B.S. exam conducted by university, amongst the students of the institute.

### **Preventive and Social Medicine**

Dr R.R. Shinde was elected President of the Mumbai Branch of IAPSM and Dr Rujuta Hadaye as the Secretary. Both also received recognition as PhD guides.

### **Transfusion medicine**

The department's blood bank received the award for Best performing Blood Bank Award on the occasion of world AIDS Day.

# Patient Care



# Patient Care

## Anatomy

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

## Anesthesia

- Anesthesiology department catered to 43 operation theater tables located in 15 OT complexes. Anesthesia services were given to about 63,000 surgical patients & the department catered to 25,000 Anesthesia OPD patients for pre-operative evaluation.
- The department has special post-operative pain relief services and anesthesia intensive care unit.
- Anesthesia services were given for workshops conducted in the following specialties: Pediatric Surgery OT, Urology OT & Plastic Surgery OT.

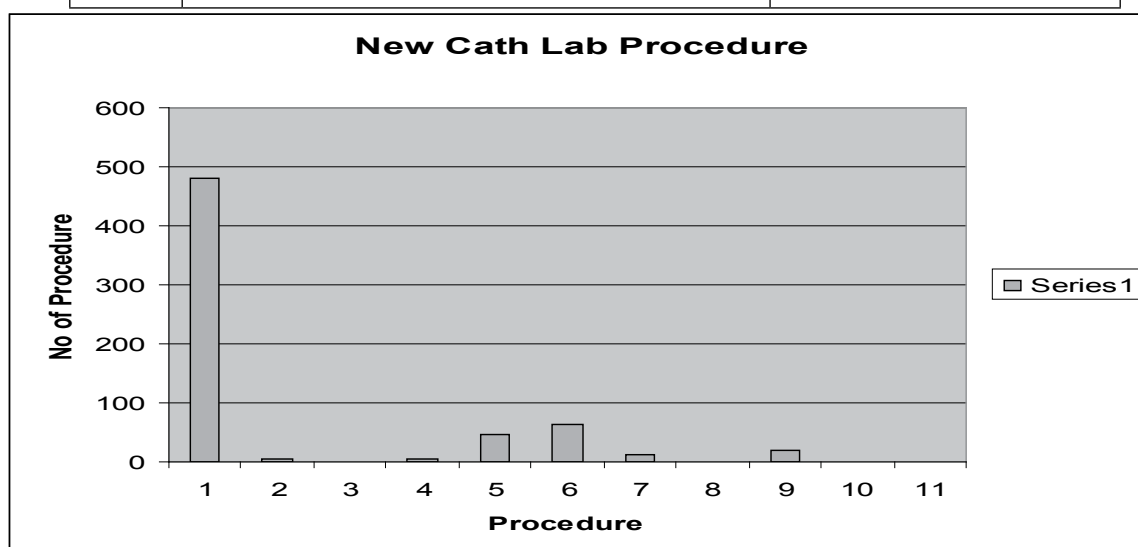
## Biochemistry

- Central Clinical Biochemistry Laboratory (CCBL)-Total number of tests carried out – 1531732
- Emergency Medical Services Laboratory (EMS Lab) Total Number of tests carried out –369720

## Cardiology

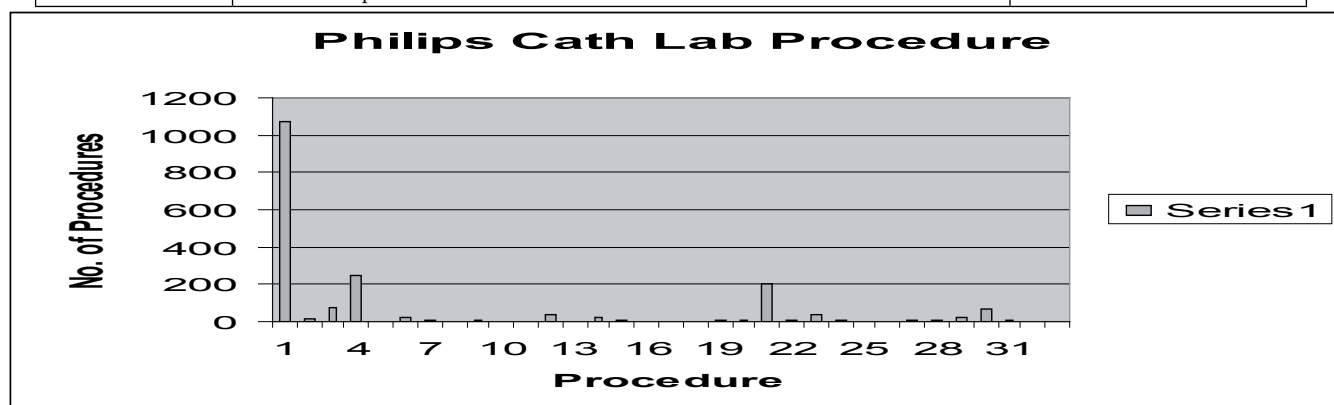
No. of Procedures done in Mobile Siemens Cath Lab in 2011: 635

Sr. No.	Types of Procedures	No. of Procedures
1	Coronary Angiography	480
2	Coronary Angiography + EPS	005
3	Coronary Angiography + EPRFA	001
4	Coronary Angiography + PPI	006
5	EPRFA	047
6	PPI	063
7	EPS	011
8	PPI Explanation	001
9	PPI Replacement	019
10.	BAS	001
11.	Fluoro	001
	Total	635



## No. of Procedures done in Philips Cath Lab in 2011: 1910

Sr. No.	Types of Procedures	No. of Procedures
1	Coronary Angiography	1072
2	Check Angio	0018
3	Diagnostic Cath	0078
4	BMV	0247
5	BMV failed	0003
6	BPV	0021
7	BAV	0008
8	BAV failed	0001
9	BTV	0004
10	VSD DC	0001
11	VSD DC Failed	0001
12	ASD DC	0035
13	ASD	0001
14	PDA Amplatzer Device Closure	0023
15	PDA Cocoon Device Closure	0009
16	PDA TCC	0003
17	RSOV DC	0001
18	Foreign Object retrieval	0002
19	Coarctoplasty	0006
20	PTCA	0005
21	PTCA with stent	0202
22	PTCA Failed	0007
23	PPI Implantation	0034
24	AICD	0009
25	AICD(Battery Replacement)	0003
26	AICD Explanation	0001
27	Pacemaker Explanation	0004
28	Pacemaker(Battery Replacement)	0010
29	Electrophysiology Study	0026
30	Electrophysiology Study and Radio Frequency Ablation	0068
31	HOCM	0006
32	HOCM Failed	0001
33	Coronary cameral fistula	0001
	Total No. of procedures	1910



Total Procedure (cath Lab 1 +2) = 2545

Total No. of patients admitted in ICCU & Wd.32: 3069

Total No. of patients admitted in Ward 32 : 2973

CST: Total no. of patients done : 2042

CD: Total no. of patients done : 5000

Holter Total no. of patient done : 300

ECG: EMS

: 60,400

CVTC : 19707

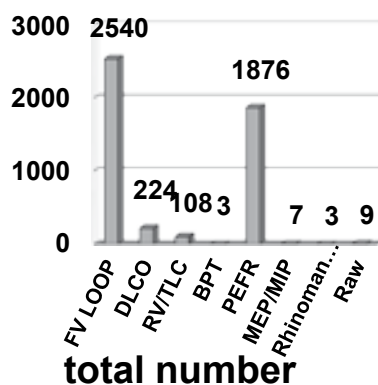
CVTC OPD

: 10512

## Chest Medicine

The total number of admissions for year 2011 is 1120. Of these, 186 patients required Intensive Care. The Department of Chest Medicine has outpatients Chest clinics on bi weekly basis. The total numbers of new patients seen till date are 6330 (till 30/11/11).

Pulmonary Function Tests 2010	
FV Loop	2540
DLCO	224
RV/TLC	108
PEFR	1876
RAW	9
MEP/MIP	7
RHINOMANOMETRY	3
BRONCHOPROVOCATION	3



Arterial Blood Gas Laboratory: 40608 Tests Performed

(Total admissions 2011- 1/1/2011 to 30/11/2011)

	Number of admissions
IRCU	186
WARD	934
TOTAL	1120

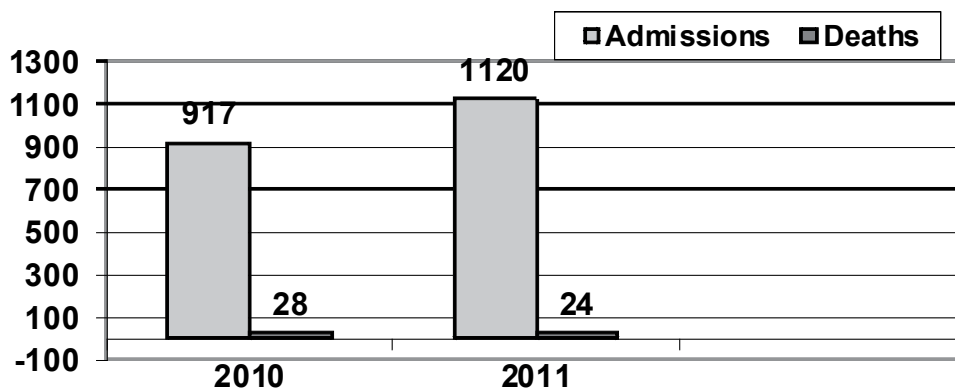
OPD	Numbers
NEW	6330
OLD	15248

## Mortality rate

The total number of admissions is patients required Intensive Care. The total number of deaths in 2011 is **24**. The mortality rate is **2.14%**. (Till 30/11/2011)

	2010	2011
Admissions	917	1120
Ward 32	717	934
IRCU	200	186
Deaths	28	24
IRCU Mortality rate	14%	12.9%
Total mortality	3.0%	2.14%

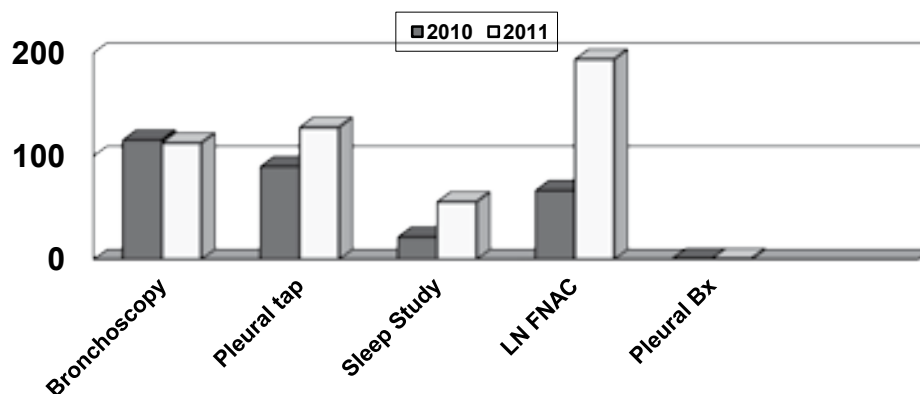
\*Data for 2011 from 1st Jan to 30th Nov 2011



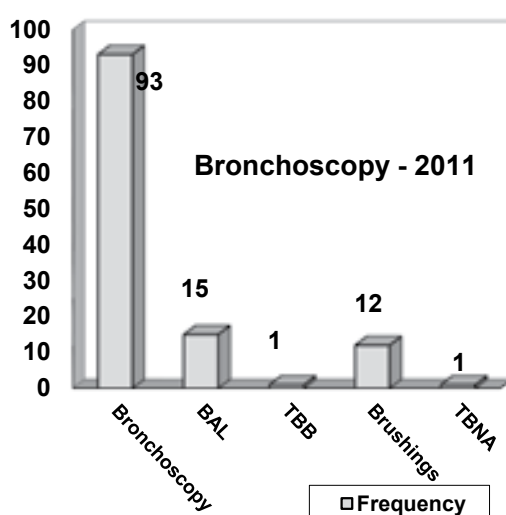
Procedures	
BRONCHOSCOPY	86
PLEURAL TAPPING	128
SLEEP STUDY	56
LYMPH NODE FNAC	194
PLEURAL BIOPSY	01

\*Data for 2011 from 1st Jan 2011 to 30th Nov 2011.

## PROCEDURES - 2011



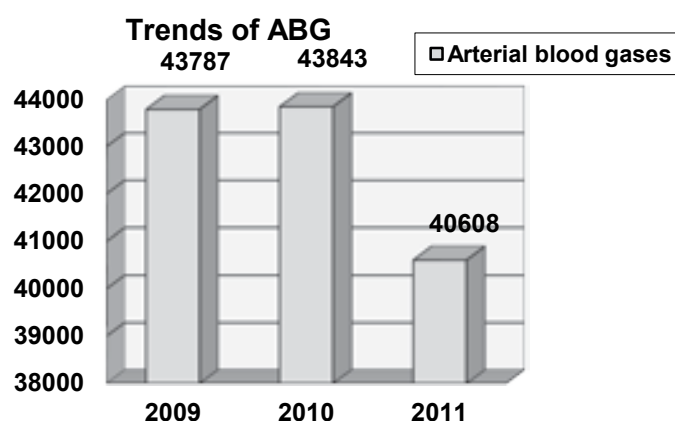
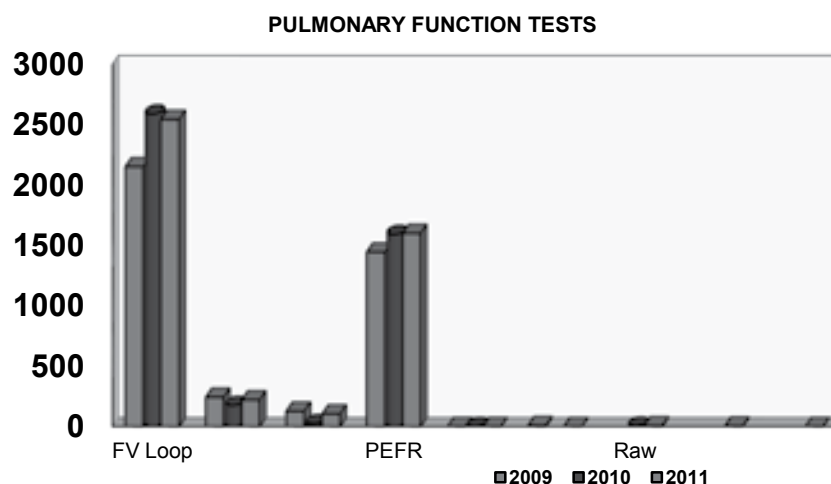
\*Data for 2011 from 1st Jan 2011 to 30th Nov 2011



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

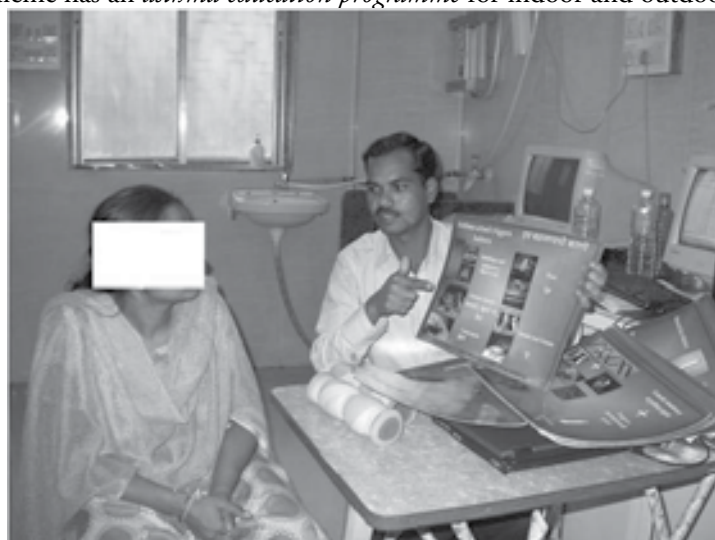
\*Data for 2011 from 1st Jan 2011 to 30th Nov 2011.





#### *Asthma Education*

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



**Medical- Social Worker giving Asthma Education**

In addition the EPRC team is also involved in creating asthma awareness and education of school children. The EPRC team carries out an annual respiratory morbidity survey of BMC employees working in the chlorination department and sewage pumping stations. The details of these surveys are published in the Environmental Status Report. The environment pollution research centre conducts regular surveys and health checkups in response to citizen complaints as well

#### *Special facilities for patients*

- An integrated approach to the lung health of the patients rather than only their disease is what we believe in. On the first visit itself the patient is assessed by the physician, the physiotherapist, the dietician and the social worker when applicable.

- As most of the respiratory diseases are chronic conditions, educating the people about the disease, compliance with medications and appropriate usage of drug delivery devices are of utmost importance. The medical social workers of this department regularly educate and assess the patients.
- Environment plays an important aspect in respiratory cases, so the work and home environment of the patients needs to be assessed in indicated cases. In special cases, a team comprising of a doctor, a social worker and a health visitor visits the patients' home/work environment to assess any environmental aspect acting as a trigger factor for respiratory ailments.
- Diagnostic & therapeutic bronchoscopy services are provided on round the clock basis, along with the expertise required for transbronchial and endobronchial mass biopsies, transbronchial needle aspiration & bronchoalveolar lavage.
- We also perform fiber optic bronchoscopy guided endotracheal intubations for patients with difficult or distorted airway anatomies in various operation theatres.
- DOTS Plus services for treatment of MDR pulmonary patients has been started at Sewree T.B hospital since July 2010. Dr.Athavale is a member of the DOTS plus committee in Mumbai and Dr. V.S.Khatri is the co-coordinator for the services. The number of patients enrolled in 2011 is 293.
- The dept also undertook Therapeutic Broncho-Alveolar Lavage for patient of Pulmonary Alveolar Proteinosis (5 Sessions) under General Anesthesia in Thoracic OT.

#### *Bronchoscopy:*



**Bronchoscopy Suite**

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

We also undertook Therapeutic Broncho-Alveolar Lavage for a patient of Pulmonary Alveolar Proteinosis (5 Sessions).

#### *New Services Added:*

With Director's initiative, a specialty OPD has been started to cater for Asthma patients Saturday afternoons from 27/08/2011 in addition to existing Monday & Thursday Chest Clinics.

### **Clinical Pharmacology**

- Therapeutic drug monitoring (TDM) services
- A total of 2695 patients were seen. There were 1508 follow up patients and 1187 new patients. Blood level estimations were done for phenytoin, phenobarbitone, carbamazepine, carbamazepine epoxide, valproic acid and lamotrigine.
- In collaboration with the Department of cardiovascular and thoracic surgery and medicine 60 patients on stable doses of warfarin were tested for blood levels of warfarin and its hydroxyl metabolite. A total 90 lithium patients were seen (66 follow-ups and 24 new cases).
- Malaria diagnosis and admissions in ward 24: A total of 12866 slides were screened. 1623 were positive (12.61%) P.vivax- 1581 (97.41%), P.falciparum- 35(2.15%), mixed infections- 7 (0.44 %).

#### *New services added*

- Immunophenotyping of leukemia patients
- Dept. identified as Regional ADR monitoring centre of the pharmacovigilance program of India.

## CVTS

### *Out Patient Services*

Four Outpatient Clinics are conducted every week

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

New patients as well as follow-up patients are seen in the OPD. The follow up clinics are especially important for those who have undergone complex congenital heart surgeries and especially valve replacement surgeries that need their anticoagulation management under supervision and congenital heart surgeries whose palliation has been done for evaluation for completion procedures. Till 30<sup>th</sup> November, **2579** new cases were evaluated for various Cardiac Thoracic and Vascular ailments

### *Operative work details*

Total Admissions: 744

Total Surgeries : 593 (Open - 373, Closed -81 Emergency 139)

## Dermatology

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

## Endocrinology

### *Quality and Quantum Of Patient Care*

- Indoor admission: 154
- Outdoor patient: From January 2011 to November 2011

	New proforma	Old proforma	New patient	Old Patient	Total
<b>Diabetic Clinic</b>	354	7209	3344	4945	15852
<b>Thyroid Clinic</b>	291	3632	2996	3864	10783
<b>P&amp;G Clinic</b>	551	2829	1281	1587	6248
<b>Total :</b>	1196	13670	7621	10396	32883

- *Hormone Assay Report 2011*

S.No	Test	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Total
1	T3	1068	814	904	379	818	733	457	815	848	828	1065	8729
2	T4	1083	842	980	830	853	819	575	889	952	857	1114	9794
3	TSH	1544	1216	1324	1175	1179	1173	1089	1214	1233	1219	1593	13959
4	FSH	235	141	171	136	137	140	148	153	134	152	152	1699
5	LH	224	158	165	139	143	151	136	148	162	138	158	1722
6	PRL	246	185	204	160	141	177	166	135	186	161	180	1941
7	Testo	145	123	126	103	80	95	119	117	68	124	122	1222
8	S.Cortisol	188	147	189	138	104	164	94	107	131	159	207	1628
9	HGH	143	109	57	62	41	43	66	54	68	44	33	720
10	ACTH	24	23	37	18	19	26	31	53	35	58	14	338
11	PTH	164	142	145	99	7	49	35	61	47	101	124	974

S.No	Test	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Total
12	IGF1	17	26	41	31	25	25	19	5	40	27	47	303
13	IGFBP3	3	6	2	0	4	2	0	2	0	0	1	20
14	AMA	73	78	108	83	89	91	72	10	69	98	137	908
	Total :	5157	4010	4453	3353	3640	3688	3007	3763	3973	3966	4947	43957

*Biochemistry 2011*

	Test	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Total
1	Blood Sugar	1753	1875	1974	1805	1597	1898	1755	1698	1393	1317	1894	18959
2	HbA1c	108	124	130	88	71	101	85	70	63	59	43	942
3	S. Calcium	108	117	126	116	0	0	0	0	0	0	0	467
4	S. Albumin	108	117	126	114	0	0	0	0	0	0	0	465
5	Alk Phosphatase	108	117	129	110	0	0	0	0	0	0	0	464
6	S. Phosphrous	108	117	126	116	0	0	0	0	0	0	0	467
7	S. Creatinine	108	117	127	116	0	0	0	0	0	0	0	468
8	S. Protein	8	8	0	0	0	0	0	0	0	0	0	16
9	SGO T (AST)	0	6	0	0	0	0	0	0	0	0	0	6
10	SGP T (ALT)	0	6	0	0	0	0	0	0	0	0	0	6
11	Urinary Calcium	61	79	68	69	0	0	0	0	0	0	0	277
12	Urinary Creatinie	61	79	68	69	0	0	0	0	0	0	0	277
13	Urinary Phosphorus	61	71	66	69	0	0	0	0	0	0	0	267
14	S. Magnesium	15	6	0	0	0	0	0	0	0	0	0	21
	Total :	2607	2839	2940	2672	1668	1999	1840	1768	1456	1376	1937	23102

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

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

Monday: Diabetes OPD-discussion in OPD

Reassessment of old diabetes patients

Tuesday: Diabetes OPD-Clinical Discussion in OPD

Thyroid Clinic

Wednesday: Ward Round-Presentation and Discussion of Ward Cases

Thursday: Diabetes Clinic – discussion in OPD

Type1Diabetes Clinic

Radiology meet

Pituitary meet: once in a month on Wednesday.

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

Nuclear Medicine meets: once a month on Wednesday

Nuclear Medicine Physician and Endocrinologist meet to discuss challenging cases

Histopathology meeting: once a month on Wednesday

Thyroid meeting: Here once a month interdepartmental case based discussion between radiology, pathology and Endocrinology is held once a month

Friday: Puberty and Growth OPD

Diabetes Clinic – New Cases

Thyroid Clinic

Saturday: Puberty and Growth OPD

(Gestational diabetes cases seen on all days)

**ENT**

Inpatients admission - JPD I-1335, JPD II- 661

Major surgical procedure –922

Minor surgical procedure – 1710

Emergency surgical procedure

New out patients –21887

## Forensic Medicine

- Dept of Paediatric Surgery in 8 cases of child sexual abuse
- Dept of General Surgery in 4 cases of sexual abuse and 30 cases of suicidal hanging
- Dept of Gynaecology in 40 cases of allegedly malnourished & sexually abused females.
- Dept of Psychiatry in 40 cases of alleged sexual abuse in mentally challenged females.
- Estimation/verification of age of 61 sports- persons as directed by Sports Authority of India.
- Estimation/verification of age of 10 workmen of Reliance Industries Limited

## Gastroenterology

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

Number of patients seen

<i>O.P.D. Patients</i>	
New patients	4390
Follow up patients	9520
<i>Indoor Patients</i>	
Admitted to Gastroenterology wards	960
Referred patients (Indoor)	4100
<b>Procedures</b>	
<i>Diagnostic</i>	
Upper GI Scopy	3900
Colonoscopy	540
E.R.C.P.	400
Proctoscopy	650
Liver Biopsy	150
<i>Therapeutic Procedures</i>	
Esophageal Variceal Sclerotherapy	140
Esophageal Variceal Band / Loop Ligation	720
Endoscopic clipping for bleeding lesions/ polyps	6
Esophageal Dilatation	250
Esophageal Prosthesis Placement	12
Gastric varices injection with glue	20
Bleeding Ulcer Injection	60
Argon Plasma Coagulation	65
Endoscopic biliary sphincterotomy and drainage	220
Endoscopic pancreatic sphincterotomy and drainage	70
Pancreatic cyst drainage	2
Polypectomy	20
Foreign Body removal	15
Percutaneous endoscopic gastrostomy	5
Rectal Stricture Dilatation	2

### *Special Procedures:*

Endoscopies in children are done under general anesthesia: 150

### *Special Investigations:*

Esophageal pHmetry was done in 15 patients. Esophageal Manometry was done in 125 patients.

Anorectal manometry:190 Antroduodenal :01

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

## GI surgery

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

Liver Resections, Surgery for Klatskin Tumor, Whipple's surgery, Esophagectomy, radical gastrectomy, Total colectomies, advanced Laparoscopic Surgeries. Liver OPD was started on Monday in collaboration with department of Gastroenterology.

## Medicine

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

### ART Centre:

- **Total Number of new patients enrolled in Pre ART Programme = 11,824**
- **Total number of new patients started on ART = 5455**
- General Medicine:
  - o New patients : 22376
  - o Old patients : 19354
  - o Total patients: 41730
- IDSP OPD: (January -October 2011):
  - o New patients-485
  - o Old patients-108
  - o Total patients-593
- Rheumatology OPD:
  - o New patients - 2014
  - o Old patients- 5223
  - o EMS – OPD -12500
  - o ICU Admissions -725
- Hypertension OPD: Services as a specialty clinic on every Wednesday.
  - o New Patients: 637
  - o Old Patients: 5299
  - o Total Patients: 5936
- Headache OPD :
  - o New patients 1100
  - o Old patients 978
  - o Total 2078
- Geriatric OPD:
  - o New patients 142
  - o Old patients 712
  - o Total patients 854

## MICU

- Total 23 ventilators - to provided noninvasive & invasive mechanical ventilation to Acute lung injury/ ARDS/ Respiratory/ depression/ Cardio respiratory failure patients.
- Number of patients on ventilator approximately- 450.
- *Plasmapheresis:*
- To patients of Gullian Bare Syndrome, Myasthenia Gravis, TTP, Polymyositis, both MICU patients & Medical ward patients with help of plasmapheresis pump 5-10 per week.
- Renal replacement therapy is given by following :
  - o CAVH, CVVHDF on CRRT machine available in MICU. Total patients treated with this modality 25. Total procedure done 192.
  - o 2D Echo done by portable, USG + Echo machine on MICU & General Medical ward patients: 305.
  - o Bronchoscopy: Therapeutic, Diagnostic bronchoscope and fiberoptic bronchoscope: total 48
  - o Percutaneous tracheostomy: total 18

### 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. 16 Multipara Monitors & 1 USG & 2D Echo Machine for Critically ill patients. 1 new ECG machine and 2 Defibrillator procured for patient care.

## Microbiology

The clinical bacteriology division processed approximately 50,000 specimens during the year. Approximately 27,000 isolates were processed for their susceptibility pattern. Routine detection for methicillin resistance, ESBL, Amp C and Carbapenemase is established. The division also proactively identified and limited the spread of hospital acquired infection in different patient care areas. The mycobacteriology division processed 30,000 samples for microscopy and 1,000 for culture. The parasitology division processed 9,000 specimens which included stool routine microscopy, opportunistic parasites and malaria antigen detection tests. The mycology division processed 3,000 specimens for fungal microscopy and 2,979 specimens for culture. The ICTC division processed more than 29,142 sera for HIV antibodies and 4,000 sera for reagin antibodies. The virology division processed 16,694 and 9,786 specimens for detection of HBs Ag and anti-HCV antibodies respectively. The immunology division performed CD4 estimation on more than 11,510 blood samples. The serology division processed more than 22,000 blood/serum/CSF specimens. Designated sera were also sent to the molecular diagnostic reference laboratory at Kasturba Hospital for PCR in cases of Leptospirosis and Dengue. The molecular diagnostic laboratory performed viral load estimations on 25 patients referred by ART centre. The faculty as a part of routine activity oversees the laboratory at GTB hospital, Sewree and has upgraded the facility for diagnostics with MGIT 960. Accreditation for the same is under process.

## Nephrology

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

Total No of OPD patients	5904
Indoor patients	1289
Referred patients	8972
Kidneys biopsies	118
Acute Peritoneal dialysis	35
C.A.P.D	11
Haemodialysis performed	5763
Kidney transplants	11

Test done in A.K.D. Lab.(till Nov. 2011)

Complete Blood Count	20625
Urine Routine & Microscopic	19865
24 hrs. urinary protein	15800
Stool Routine	75
Creatinine	2300
Urine osmolality	1590
Serum osmolality	1590
Miscellaneous culture	82
Sensitivity routine	600
Sensitivity extended	600
Miscellaneous culture	82
Sensitivity routine	22
Sensitivity extended	22
Blood culture	210
Sensitivity routine	50
Sensitivity extended	50
Australia Antigen (Elisa)	2115
HCV	2115

## Neonatology

*Neonatal Intensive Care Unit: 37 bedded*

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

*Section A:* Babies born in K.E.M. Hospital who are not infected are kept in this area.

*Section B:* Babies born in K.E.M. hospital who are at risk of developing infection or babies transferred from other municipal or private hospitals are managed here.

*Section C:* This section renders intermediate care to the neonates. The babies who do not require close and continuous monitoring are looked after here.

*Ventilator section:* The babies requiring ventilatory care are closely monitored and managed here.

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

*Kangaroo Mother Care Center :* The department is selected as the center of excellence for initiating Kangaroo Mother Care for Low Birth Weight babies in India, **the first** & one of the regularly followed up here for growth, nutritional status, neuromotor, neuro developmental & neurosensory assessment & early intervention therapy is institutes when required.

## Neurology

OPD & Indoor patient services

*Trends – Procedure wise for each procedure –*

EEG – \*Paper EEG - Nil

Video EEG – Inter-ictal - 175

Ictal - 973

EMG – nerve conduction - 350

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

*Special facilities for patients –* Botulinum toxin for movement disorder.

*New facilities provided –*

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

*Mortality rate -*

YEAR	NEURO PTS	EPILEPSY PTS	INDOOR PTS	Paper EEG	EMG	Video EEG
2009 New	5992	3761	862	478	459	1080
Old	7815	4915				
2010 New	5034	3561	866	185	129	1166
Old	6900	13291				
2011 New	5220	3620	905	0	350	1148
Old	7215	7510				

## 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. 1500 surgeries were performed in the neurosurgery operation theatre. Video EEG and neuropsychological assessment are available for evaluation of epilepsy patients. Radionics CRW Stereotaxy apparatus are available to perform deep brain biopsies and functional neurosurgery.



Brainlab Neuronavigation system installed for image guided cranial and spinal surgeries. Digital subtraction angiograms and endovascular neurointerventional procedures are now being performed. Carotid stenting, coiling of aneurysms and treatment of cranial and spinal arteriovenous malformations is being routinely done.

## Nursing

We have specialized clinical nurses in various field such as Pediatric, Neonatology, Psychiatry, Stoma therapy, Oncology, Burns, Operation Theater Technique, Diploma in Hospital Administration Diploma in Nursing education & Administration, I.C.U, Nursing and B.Sc. Nursing. All they are place in respective department, some Nursing Tutors have also specialization with Master Degree in Pediatric Nursing, Psychiatric Nursing and Community Health Nursing, Cardio-Vascular Thoracic Nursing.

### *Total Nursing Staff present in year 2011*

Matron	1
Sr. Asstt. Matron	2
Jr. Asstt. Matron	4
O.T. Supdt.	2
Ward Sister	99
Staff Nursing	714
A.N.M.	
House Keeper	1
Ward Assistant	26
Theatre Asstt	12
Principal	1
Sr. Tutors	25
P.H.N	1

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

## Obstetrics & Gynaecology

Total No. of confinements	6366 till Nov. 2011
Total major surgeries (Obstetric OT)	2057
Total minor surgeries (Obstetric OT)	1104
Total surgeries (Gyn OT)	526
Oncosurgeries	7

Restarted the following activities after renovation of hospital building-

1. Infertility clinic IUI

## Occupational therapy

### *Specialized OPD Interventions:*

Sr. No	Name	Building	OPD No.	Day	Timings
1	Obesity clinic	CVTS	4	Mondays, Thursdays & Saturdays	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
2.	Cardiac Risk Modulation clinic	CVTS	4	Tuesdays, Wednesdays & Fridays	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
3.	Pain Management Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
4.	Rheumatoid Arthritis Clinic	CVTS	307	Saturdays	9.00 am to 12.00 pm
5.	Neonatal High Risk OPD	Multistory New Building, 1 <sup>st</sup> Floor		Wednesdays	1.00 pm to 4.00 pm

Sr. No	Name	Building	OPD No.	Day	Timings
6	Back School Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
7	Musculoskeletal management for Hemophilia	CVTS & Orthopedic Center	4 & 412	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
8	Hypertension Clinic	Multistory New Building, 1 <sup>st</sup> Floor		Wednesdays	9.00 am to 12.00 pm
9	Neuro Rehabilitation and movement disorder clinic	Old K.E.M Hospital Building	Ward 10, OT Department	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
10	De-addiction: Intervention and Fitness	Orthopedic Center	OT department in Ward 40	Mondays to Saturdays	9.00 am to -12.00 pm
11	Breast Clinic	New building	11	Friday	2.00 pm to 4.00 pm
12	Psychiatry: Intervention and Work Fitness	Old K.E.M Hospital Building	OT OPD 79	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
13	Child Guidance Clinic – New Patients OPD	Old K.E.M Hospital Building	OT OPD 79	Mondays & Thursdays	1.00 pm to 4.00 pm
14	Kangaroo Mother Care	Behind Orthopedic Center	--	Mondays and Thursdays	10.00 am to 12.00 pm
15	Pediatric Neuro Developmental -New Patients OPD	Old K.E.M Hospital Building	OT OPD 79	Saturdays	9.00 am to 12.00 pm
16	Sensory Integration Therapy	Orthopedic Center	412	Mondays to Fridays	1.00 pm to 4.00 pm
17	Burns, Plastic Surgery and Specialized Hand Clinic	Old K.E.M Hospital Building	OT OPD 260	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm
18.	Synovitis Management Clinic	Orthopedic Center	412	Mondays to Fridays & Saturdays (Half Day)	9.00 am to 12.00 pm & 1.00 pm to 4.00 pm

**Workload:**

Workload	Outpatient Dept	In Patient Care	Intensive Care
Patients	9,396	14,576	1,620
Visits (Treatment Sessions)	37,993	92,046	4,460

**Ophthalmology**

- This dept. has an OPD and Operations are being performed in OT on all days.
- It has a special ward for keratoplasty patients
- It gives complete eye care in the form of various ophthalmic procedures like contact lens, IOL implantation, keratoplasty, Fluorescein Angiography and vitreo retinals surgery, diagnostic facilities with ultrasound, slit lamp, perimeter & fundus cameras are available for OPD patients and for these specially referred.
- There is a well established “Eye Bank” with facilities for enucleation, storages use of the balls.
- This dept. is a well known centre for diseases of the posterior segment of eye.
- It has facilities for color and Fluorescein in fundus photography.
- Photocoagulation is presently done with the double frequency Yag Laser.
- Vitreo Retinal Surgery is regularly done in the department.
- Total operations: 2299
- Total admissions: 1685
- New services added with no.s: NIL
- New facilities provided: NIL

## Orthopedics

Orthopedic department performs over 3000 major and 2000 minor surgeries including 300 joint replacements, 200 arthroscopy cases and 500 spine cases. The number of OPD cases seen is approx. 100 new cases besides follow-up of old cases. Three theatre complexes:

*Routine Orthopedic Operation Theatre:* Two theatre rooms (both with laminar flow).

*Joint Replacement & Spine Surgery Theatre:* State of the art Joint Replacement & spine surgery theatre. This theatre complex is exclusively for Joint & Spine surgeries.

*Orthopedic Trauma Services Theatre:* Two operating rooms located in the Emergency Medicine Services Complex.

## Pathology

The Department of Pathology, besides undergraduate and postgraduate teaching, has the largest number of laboratory services rendered to the patients and these for the sake of convenience are housed in different areas of the hospital.

### *CVTC Laboratory 116 (CVTC Building First Floor)*

#### Annual Workload

a. Surgical Biopsies and Excisions	270
b. Cardiopulmonary Autopsies	261
c. Sputum and Other Fluids for malignant cells	445
d. Autopsy Special stain	214
e. Surgical Special Stain	241
f. Cytology	420

### *CVTC Laboratory 315 (CVTC Building First Floor)*

#### Annual Workload

a. Blood Collections (OPD+ Wards)	20,271
b. Hemograms	14,705
c. Prothrombin time	15,476
d. Routine Urine Examination	3532
e. Routine body Fluid Examination	207
f. Lipid Profile	15,179(Tg) +15,179 (Cholesterol) =30,378
g. Complete lipid Profile	3,690(Tg) + 3,690(Cholesterol)+ 3,690,(HDL)+3690(LDL) =14,760
Serum Amylase	170
CPK	289
CPK- MB	289
LDH	57

### *CVTC Immunology Lab 316*

a. RA factor	917
b. Cryoglobins	34
c. Anticardiolipin antibodies	524
d. Antinuclear Antibodies	395
e. Anti ds DNA antibodies	125
f. Bronchialveolar lavage cytology	19

### *Cytology (library Bldg 2<sup>nd</sup> floor)*

Total FNAC performed	3700
No. of slides generated from FNAC	22200
PAP stain carried out on	11100
Giemsa stain carried out on	11100
No. of fluid samples for cytology	650
PAP stain carried out on	650
Giemsa stain carried out on	650

### *O. C Laboratory*

Hemograms	11,016
Biochemistry	6499

Hb	11,016
PCV	2621
ESR	11,016
WBC total	11,016
WBC differential	11,016
MP	198
BT/CT	06

*EMS laboratory*

Hemograms	1, 17,343
Smears for malarial parasites	8425
Arterial Blood Gas	32,400
CSF	1533

*Surgical Pathology (library bldg 2<sup>nd</sup> floor)*

No. of specimen	7926
No. of blocks	26476
No. of slides prepared	40519
No. of special stain	4472
No. of frozen section	138
No. of frozen bits cut	404
No. of kidney biopsies	182
No. of kidney blocks	288
No. of Bone marrow blocks	180

*Clinical pathology and hematology (MSB 6<sup>th</sup> floor)*

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

Hemograms	2,01488
Malarial parasites	3670
Optimal / QDX (Malarial antigen test)	2455
Platelet count	33,995
Special investigations (RBC, sickling, LE cell, Retic count, buffy coat, Microfilaria)	49,624+188+02+1284+623+612 = 52333
Special stains for leukemia	77+78 = 155
Bone marrow biopsies, Bone marrow Aspirate and Imprint	222+392= 614
Urine examination	66877
Fluid samples for microscopy	2193

*Neuropathology (MSB 6<sup>th</sup> floor)**Clinical Pathology*

No. of Hemograms	965
No. of CSF examined	1027

*Biochemistry*

No. of Ascitic/Pleural	2193
Proteins urine porphyrin	1027

*Histopathology*

No. of tissues received	1028
No. of blocks prepared	2598
No. of slides prepared	2924
No. of tissue for cryo/squash	73/405
No. of CSF cyto/ cryptococci	204

*Autopsy*

No. of brains received	111
No. of blocks prepared	1419

No. of slides prepared	1670
With spl stains	486

#### *Clinical & Hematological Services OPD 008*

#### **1. Outpatient Department Laboratory (MSB Ground Floor)**

a. Blood collections:	90, 000
b. Hemograms:	1, 30,054
c. Coagulation profile (BT/CT):	3300
d. Routine urine examination:	48,848
e. Malarial Parasites	1600
f. Platelet count	2000

#### *Autopsy*

<b>Total No. Autopsies Performed</b>	440
--------------------------------------	-----

#### *Pediatric surgery:*

Total admissions	1867
Surgeries	1085
Major surgeries	488
Minimal access surgeries	185
Minor surgeries	412
Started single incision laparoscopic surgeries – 10 + 3 (Lap Appendectomy and lap ovarian cystectomy)	

#### **Pediatrics**

<b>Patient Services</b>	<b>2011 (till 15<sup>th</sup> Nov 2011)</b>
General Pediatric OPD	31387
Indoor Admissions	4051
EMS Admissions	2560
EMS Attendance	15011
PICU Admissions	428
Under Five Clinic	2736
Rheumatology & Nephrology Clinic patient visits	193 & 578
Pediatric Chest Clinic (total patient visits & new patients)	712 total patient visits (41 newpatients)
Genetic Clinic patients (total patients & new patients)	715 total patients (452 new patients)
School Clinic patient visits	1347
Thalassemia day care centre admissions	1967
Pediatric epilepsy clinic patient visits (total & new)	1033 total visits (129 new patient visits)
Learning Disabilities clinic	527 total registrations & 375 patients certified/ evaluated.

#### **Pharmacology**

- OPD services: Ayurveda Research Centre of Department of Pharmacology and Therapeutics runs an OPD on Friday afternoon. Last year 3263 patients were 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 792 patients who were admitted on Day Care basis. *Ksharsootra* was supplied to Department of Surgery for patients with fistula in ano.
- Monitoring for Quality of Ayurvedic Formulations: 45 Ayurvedic formulations were analyzed for synthetic steroids and of these 9 were found to contain synthetic steroids. 30 samples were received for detection of heavy metals.
- Advice was provided to the Octroi department of MCGM regarding plant drug containing formulations with justification.
- Resident doctors of the department took part in the patient care by providing services to the Fever OPD, in Emergency Medical Services of the institute, from June to September 2011.

## Physiotherapy

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

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

Physiotherapy dept. provided services to :

- 3, 00,000 patients -
  - o 1,20,000 - outdoor patients at Physiotherapy OPD
  - o 1,80,000 - Indoor patients at Cardiovascular & Throacic Centre, Orthopedic 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

*New Services:*

Rehabilitation in spine conditions

*New Facilities:*

- Core strengthening for obese women
- Rehabilitation program for GBS patients
- Scapular control training for shoulder joint dysfunctions.

## Plastic Surgery

*Patient care*

- 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	2011 (upto Nov )
Indoor patients - Plastic surg	642
Indoor patients - Burns	75
O.P.D. Patients	7953
Casualty References	628
Routine operations	763
Emergency operations	1666
TOTAL OPERATIONS	2429
Referrals from other departments	1441

*Special services for patient:* Comprehensive hand clinic, Thursday 2.30 pm. Maxillofacial OPD Mondays, Ward 16, 2.30pm  
*Special facilities for patients:* Occupational Therapy services exclusively attached to our department.

## PSM

### *Services in KEM campus:*

- General OPD services:*

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

During year 2011, 52,665 patients were examined in GOPD (male – 31,948, female 20,567). 10,052 (19%) 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 3050 employees (male – 2178, female – 872) were examined in 2011.

- Immunization OPD:*

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

### *Vaccine beneficiaries:*

Vaccine	Male	Female	Total
BCG	2588	2352	4940
OPV 0	2507	2293	4800
DPT 1, DPT2, DPT 3/ OPV1, OPV2, OPV3	1813	1314	3127
HBV 1 , HBV 2, HBV 3	1856	3219	5075
Measles	421	343	764
MMR	318	268	586
DPT / OPV B1	302	256	558
DT / OPV B2	167	158	325

In addition, 10 rounds of Pulse Polio Sundays followed by a week of IPPI activities within the campus were conducted in the year of 2011.

- Integrated Disease Surveillance Program:*

Daily Disease surveillance is done through SDU established at KEM Hospital, PSM Dept. for patients with Acute Gastroenteritis, Leptospirosis, Dengue, Malaria and fever cases admitted in KEM Hospital. Epidemiological investigation in the field for these cases is 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 is carried out in the vicinity of the outbreak areas by the PSM residents. The total cases admitted in this year were 3453 and total deaths were 244.

### *Services at Naigaon Health Centre:*

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

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

In the year 2011 till date, 1391 patients were examined in the General OPD at Naigaon.

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

In the year 2011 till date, 268 beneficiaries benefited from this clinic

### *Services at Malvani Urban Health Centre:*

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

Patient Visits in General OPD & Pediatric OPD:

	CHILDREN		ADULT	TOTAL
	0-5 YEARS	6- 12 YEARS		
MALE	7815	5647	18305	31767
FEMALE	6790	5880	27739	40409
TOTAL	14605	11527	46044	72176

## Special OPDs:

OPD		No. of Patient Visits
Dental		721
Psychiatry		1412
Gynecology		92
Ophthalmology	Total	1552
	Cataract surgeries	64
Dressing		604
Injections given		1538
Skin		2698

Outdoor community camps: 10

## Patient visits in Chronic Patients OPD:

DISEASE	MALE	FEMALE	TOTAL
Hypertension	283	1327	1610
Diabetes mellitus	86	202	288
Ht with dm	228	679	907
Bronchial asthma	52	65	117
Epilepsy	43	12	55
Bronchial asthma+htn	121	121	242
Htn+ihd+ba	16	16	32
Total	845	2446	3291

## National Health programmes

## Revised National Tuberculosis Control Programme:

Pulmonary tuberculosis			Extra pulmonary tuberculosis	Total Cases registered		
Smear positive		Smear negative				
New cases	Relapses				M	F
138	71	54	66	174	155	329

## Maternal &amp; Child Health Programme:

No. Of IUD insertions	109
No. Of OC pill beneficiaries	492
No. Of condoms distributed	12400

Statistics for ANC (1<sup>st</sup> december 2010 – 17<sup>th</sup> july 2011)

## New registrations

ANC	1 <sup>st</sup> Trimester	2 <sup>nd</sup> Trimester	3 <sup>rd</sup> Trimester	Total
	107	233	18	358
ANC TT immunization	TT1 -266	TT 2- 68	TT B - 243	577

High-risk cases identified: 54

## Well Baby Clinic: Patient Visits

Beneficiaries	Normal	Mild	Severe	TOTAL
New	110	49	33	192
Old	199	66	25	290
Total	309	115	68	482

## Universal Immunisation Programme:

SEX	MALE		FEMALE		TOTAL
	< 1yr	> 1 yr	< 1yr	> 1 yr	
BCG	555	0	523	0	1078
DPT + OPV	2483	18	2060	12	4573
HBV	2453	0	2113	0	4566
MEASLES	618	5	557	3	1183
BOOSTER1 & 2 (DPT)	0	1254	0	1193	2447
MMR	0	627	0	642	1269
TT	0	833	0	839	1672



Average Target achieved in Pulse Polio Immunization: 98.76%

#### STI OPD:

	Male	Female	Trans Gender	Total
Clinic visits with STI/RTI complaints & were diagnosed with STI/RTI	37	734	4	775
Follow up visits for index STI/RTI complaints	21	389	241	651
No. Of patients counseled	478	1221	650	2349
No. Of condom provided	1420	11020	440	12880

#### Laboratory investigations:

Investigation	No. of patients		Total
	Positive	Negative	
Sputum AFB	420	2205	2625
VDRL	13	1640	1653
UPT	106	123	229

#### 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, Dental O.P.D, Leprosy O.P.D. , Tuberculosis O.P.D. Gynaecology O.P.D – once a week, Pathology laboratory, Radiological investigations – once a week, Medicine O.P.D.,– twice a week, Skin O.P.D., Ophthalmology O.P.D. – once a month

Services	Patients examined
General OPD	25884
TB OPD	903
Leprosy OPD	1038
Dental OPD	820
Ophthalmology OPD	386
Gynaec. OPD	258
ANC OPD	21
Total	29310

## Psychiatry

#### Patient Care

There are two main sections of the department

General psychiatry – 60 BEDS

Bombay De-addiction centre of excellence - 30 BEDS

#### Facilities provided are:

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

#### GENERAL

In this year the numbers of new patients seen in OPD were - 2876

On follow up the no of patients examined were approximately – 15105

The no of indoor patients admission were -

EEGs done were - 860

ECTs given were – 630

Deaddiction Centre

In This year the Number of patients seen In OPD was -1397

Indoor Admission 2011 -188

Deaddiction	Male (Psy)	Female (Psy)	Total
188	425	243	668

# DRUG DEADDICTION LABORATORY WORK REPORT (Jan 2011 to DEC 2011)

Name of the test Done for received Sample	No. of Samples
Urine alcohol (indoor +outdoor) by Dichromate or by morphine method	8801
Indoor urine sample for	
Morphine	310
Cannabis	435
Benzodiazepine	22
Cocaine	--
Our door urine samples for	
Morphine	270
Cannabis	524
Benzodiazepine	52
Cocaine	--
Amphetamine	03
Rave party patients	
Morphine	22
Cannabis	103
MDMA	21
Cocaine	---
Amphetamine	05
Miscellaneous Samples (Pudi, Tablet, Misri)	22
Grand Total (1+2+3+4+5) =	10590

	Alcohol		Opioid		Nicotine	
	New	Old	New	Old	New	Old
January	71	378	18	61	4	2
February	53	379	27	58	2	2
March	66	302	29	57	8	8
April	60	263	21	46	5	2
May	40	282	19	27	4	2
June	57	296	18	28	2	1
July	44	260	13	25	3	-
August	56	292	21	45	3	-
September	50	286	15	36	6	-
October	50	203	18	26	4	1
November	61	270	13	28	4	1
Total = 1397	652	32	212	437	45	19

## SPECIALIST SERVICES

### Group Therapy Services

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

Suicide attempts: - 129

Sexual dysfunctions: - 133

Carers of Patients with Schizophrenia: -326

### Specialized Clinics

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

- Child guidance clinic for children with psychiatric disorder

New - 620

Follow up - 425

- Geriatric clinic for old age patients: New – 33

- Epilepsy surgery clinic

#### *New Services:*

- Epilepsy surgery clinic

### **Surgery**

OPD patients attended – 1833

Indoor patients' admission – 1106

Elective Major Surgeries – 76

Elective Minor Surgeries – 167

Emergency major Surgeries – 111

Emergency Minor Surgeries – 133

### **Transfusion medicine**

In addition to the routine services, Transfusion Medicine provides single Donor Platelets (prepared by plateletpheresis) to patients, particularly to those with hematological disorders, monsoon related illnesses and those undergoing cardiac surgery. Total 1767 units of Random Donor Platelets and about 300 units of Apheresis Platelets, Single Donor Platelets (SDP) were issued for the patients admitted in our hospital. 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**

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

#### *Investigative Facilities offered*

- Ultrasonography: Urology department has its ultrasound machine where scans of urological patients are done.
- Urodynamic study machine: - department of urology has purchased UDS machine from STATUS MEDICAL PVT LIM. This machine is used to study patients with bladder outflow obstruction, urinary incontinence and neurogenic bladder. The study is done daily in department of urology and has reduced the inconvenience caused to patients. Previously patients have to wait for 3 months to get appointment for UDS at NAIR HOSPITAL. Now it is done with waiting period of hardly one week
- Urodynamic Studies (Uroflowmetry): This laboratory, located in the department 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 DEVICED 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, urology has devised this economical prosthesis costing Rs.8, 000/- versus Rs.40, 000/- for the imported variety.

*Patient Education Activities:*

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

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

Workload of the Department (for last 3 Years)

Patient Workload:

Year	O.P.D Attendance					Indoor Admissions	Referrals / Calls		
	Gen.Urology		Stone Clinic		Infertility		Total	Emergency Calls	
							Indoor	Intra op.	
2009 (till Nov. 2009)	5842		5838		754	12434	934	1235	35
2010 (till Nov. 2010)	3810		4346		564	8720	1116	2310	30
2011 (till Nov. 2011)	3806		4904		530	9240	1189	2537	38

*Diagnostic Workload:*

Year	USG	Cystoscopy & Related Procedures	Uroflowmetry	Trust Guided Biopsy	UDS
2009 (till Nov.)	25	1354	880	220	--
2010 (till Nov.)	120	954	1020	232	--
2011 (till Nov.)	214	1037	1446	294	280

*Operative Workload:*

	2009 (Till Nov.)	2010 (Till Nov.)	2011 (Till Nov.)
<b>Open work</b> 60to 70% in operative work	143	263	307
<b>Transplant</b> (LRDT + Cadaver)	13	17+2 =19	17
<b>Endo-urology :</b>			
VIU	80	67	84
TURP	70	105	106
Endomeatotomy	3	--	--
Litholopaxy	30	37	28
URS	77	175	196
PCN	40	39	48
PCNL	97	146	200
PCCL	9	03	10
Endopyelotomy	--	--	--
TURBT	21	37	37
Laparoscopy	35	17	20
<b>ESWL: Location</b>	<b>2009 (upto Nov.)</b>	<b>2010 (upto Nov.)</b>	<b>2011 (upto Nov.)</b>
Renal Stone	197	130	--
Ureteral Stone	52	30	--

# Community Care



# Community care

## Anesthesia

The department conducted a basic life support training course for paramedical personnel to handle emergency scenarios

## Chest medicine

Conducted respiratory morbidity related health surveys to study the effects of air pollution on health and asthma prevalence in several areas of the city including municipal schools in Mulund, Ghatkopar, Dadar, Byculla and Naigaon; Siddivinayak & Vaity Cottage, Zarina Park Mankhurd, Colaba, Love grove junction, Versova and Pise Panzrapole chlorination plants and pumping stations; sewari Police line and Sewari Koliwada areas, Asalfa village(Ghatkoper) and Maravalli village (Chembur), BSES & Navlai Society, Gorai. The faculty and Residents were a part of team conducting awareness and treatment for monsoon related ailments in various parts of Mumbai during June to October this year. A survey of school students in several areas to impart education on asthma and its triggering factors along with emphasis on treatment compliance was also carried out.

## Endocrinology

Diabetes detection and osteoporosis camps were organized at the institute on 5<sup>th</sup> and 19<sup>th</sup> January, 9<sup>th</sup> February and 16<sup>th</sup> March 2011.

## Gastroenterology

Carried out immunization of all high risk personnel against Hepatitis B

## GI Surgery

Published a community awareness booklet in Marathi and English on Liver Transplant. Faculty published several articles in lay press about various health topics

## Medicine

Conducted several monsoon diseases related health check up camps for the community in different parts of the city. Conducted lecture -series for private general practitioners on Malaria and various monsoon related diseases. Dr.Shobha Itolikar participated in camp organized on Women's Day at Mahim on 5<sup>th</sup> March 2011. Dr.S.B.Salagre and Dr.Kunal Metha participated in Community camp at Naigaon for Senior Citizens on World Diabetes Day, 14<sup>th</sup> Nov 2011. Dr.Vaibhav Chewoolkar, participated in Diabetes & hypertension Camp on 20<sup>th</sup> November 2011 at Tilak Hospital, Worli. The MICU faculty organized an onsite Mechanical Ventilator training to medical officers in Konkan region.

## Neonatology

Dr. Ruchi Nanavati delivered a lecture on Breastfeeding for students of Human Resource & Nutrition on 4<sup>th</sup> August, 2011 at SVT College of Home Science, SNDT Women's university, Juhu

## Pediatrics

Dr. Sonal Bhatia, Dr. Chhaya Mehta and Dr. Dipali Jambhale with residents conducted Monsoon Health Camps from June 2011 to September 2011 at various locations in Mumbai. Dr. Mukesh Agrawal, Dr. Surbhi Rathi, Dr. Milind Tullu & Dr. Dipali Jambhale organized ORS day Celebrations & Poster Competition in July 2011. They also Organized Lactation management workshop and Breastfeeding Week celebrations in August 2011 and conducted Adolescent Health Week. Dr. Sunil Karande conducted "Workshop on Learning Disability" held for School Teachers on 1<sup>st</sup> October and on 17<sup>th</sup> December 2011 to sensitize and train them to recognize students with learning disability early and refer them for evaluation. He also organized a CME on Learning Disabilities for Pediatricians, Psychiatrists, Counselors, Special Educators, Clinical Psychologists, Occupational Therapists and students of these specialties on 15<sup>th</sup> November 2011. Dr. Mamta Muranjan, conducted a camp for patients with lysosomal storage disorders organized by the Lysosomal Storage Disorders Support Society of India (LSDSSI) and Fetal Care Research Foundation, Chennai, on the occasion of the Rare Disease Day, February 28, 2011. She also organized a clinic for physician and patient interaction for patients with Gaucher's disease and their families.

## Nursing

Patient services at urban health centre, Naigaon maternity hospital. Rural community health services, at Nere, Panvel primary health centre. Participation in National Health Programmes like Pulse Polio programme at Nere, Panvel, PHC and Kharghar sub centre, Navi Mumbai. Conducted street play exhibitions on HIV Aids Awareness on WORLD AIDS DAY. Arranged Streets Plays, Health Education Programs and Exhibitions at Naigaon, Primary Health Centre and Nere, Panvel, Rural PHC by Nursing Students.. Initiated child to child programme at B.J. Deorukhkar Municipal Primary School, Naigaon

## Obstetrics and Gynecology

Organized health camps in collaboration with the Department of PSM at Rural Health Training Center, Khardi (Thane district). Dr. N. M. Mayadeo conducted education and training of Medical Officers, Paramedical Staff for Prevention and management of Post-Partum Haemorrhage (PPH) at district level in March 2011. Dr Padmaja Samant delivered a Health talk and Awareness on Sexual Harassment on Women's Day at Sahitya Sangha organised by Maharashtra Labour Organization 8<sup>th</sup> March 2011. She also conducted community training at Kandivali organised by Committed Communities Development Trust in March.

## Occupational therapy

Mrs. Jayashri S. Kale conducted a community based program for the Dhulia Chapter of Hemophilia to assist the Chapter in its formation and organization of rehabilitation unit for enhancing patient care. She also conducted an aqua therapy session for the young hemophiliacs. Mr. Shriharsh S. Jahagirdar conducted parent workshops on "Handling of child with Cerebral Palsy" and "My child and his senses" at Swayam Rehabilitation Center for spastics. He was invited as a panelist for community program for the parents of children with ADHD. Mrs. Kirti Amol Patil conducted Aquatic Training camp for Hemophilia patients at Shantisagar Resort, Badlapur and a camp for the elderly.

## Ophthalmology

Organized various Eye camps in several parts of the city throughout the year namely at Abhyudya Nagar and Ghatkoper in February 2011, Mulund in March 2011, Dharavi and GTB nagar in October 2011 and at Wadala in November 2011

## Pathology

Conducted blood donation camps for monsoon related illnesses and blast victims

## Pediatric surgery

Successfully running the outreach programme at Shatabdi Hospital, Govandi and operated on 40 patients in last 1 year

## Pharmacology & Therapeutics

Conducted Free Ayurveda health checkup camps at Vasai on 6<sup>th</sup> November 2011 and at Parel Bhagini Mandal on 20<sup>th</sup> December 2011. Participated in the health camp organized at Chaityabhumi on 6<sup>th</sup> December 2011 to provide care and awareness about rational use of Ayurvedic drugs.

## Physiotherapy

Jaimala Shetye delivered social awareness talks on "Psychology of dysfunction" at Thane. Sushama Gajakos conducted camps /sessions on Counseling & pelvic floor exercise in women for prevention of incontinence in March 2011 and follow up camp was held in May 2011 at Malvani.

## PSM

PSM Department of KEM Hospital coordinated MCGMs Aarogya Abhiyaan. There were over 2 lakh beneficiaries. Over 25,000 benefitted from the Sunday camps. Health camps were held on male reproductive health, for female sex workers and street children.

*Camps in the community by Malvani Health Centre:*

- School health check up camp & poster exhibition for 8<sup>th</sup> standard student of St. John's school, BMC colony, was organized in the month of Jan-2011. (Beneficiaries – 30)



### *Community Outreach Health Services in Malvani area: HIV/AIDS Week celebration*

- Visit of All RMOs, interns and STI counselors to Sakhi Char Choughi
- AIDS awareness rally
- Focus Group Discussion of Youth group from the community on issues related to HIV/AIDS. (Beneficiaries- 15 boys)
- Quiz on HIV/AIDS awareness conducted among students of N.T.C.C. D.Ed College. (Beneficiaries-36 students)
- Poster exhibition held at Ambojwadi rickshaw stand. (Beneficiaries- 150)

### *International Women day celebration*

- Meeting with self-help groups. Three role-plays where issues raised included dowry, Women's cell initiative by Mumbai police, Alcoholism & family, sex determination and female foeticide and financial independence of women. (Beneficiaries- 40 women)
- Program for contraceptive awareness and family planning (64 beneficiaries)
- Comprehensive health care camp for female patients suffering from Urinary Incontinence in collaboration with Dept. of Obs & Gyn and Dept. of Physiotherapy (Beneficiaries- 28 women)

### *WHO day celebration (Theme- Antimicrobial resistance – No action today, No cure tomorrow)*

- Poster exhibition for Patients on DOTS treatment plus an interactive session with skit highlighting Prevention of MDR TB among TB pts. (beneficiaries- 40)
- Skit on irrational drug practices and poster exhibition focusing on Management of common childhood illnesses and prevention of misuse of drugs
- Follow-up camp for female patients suffering from Urinary Incontinence in collaboration with Dept. of Obstetrics & Gynecology and Dept. of Physiotherapy
- Discussion on "Health Issues for women" taken by for women at Ambujwadi. (Beneficiaries- 30)

### *World breastfeeding week celebration - Theme: Talk to me – 3D experience*

- IYCN training on breast-feeding organized for the staff of Maulana Azad maternity home. (Beneficiaries- 30)
- Baby crawl video displayed along with a skit and discussion on right practices of breastfeeding for various groups. -Food & Nutrition demonstration

*World Diabetes Day Celebration* in collaboration with Lions International at MUHC. (Beneficiaries- 45 diabetics)

## **Community Outreach Health Services Naigaon**

Month	Name of Activity	No. of Participants
January	1. Theatre of Oppressed workshop was conducted with Balwadi parents and tailoring girls group on UF care and TB social stigma	200
	2. Sankrant Haldikumkum programme with under five mother's, ANC & PNC and their relation skit was performed by RMOs at Naigaon Maternity Home	62
February	Haldikumkum programme for all OPD patients and relatives from Naigaon Maternity Home. Skit was performed by nursing students dengue fever & domestic violence	150
March	Women's day ( 8th march ) programme with under five mothers, ANC, PNC and Adolescent clinic groups	200
April	1. Awareness programme on drug use "World Health Day" observation for Naigaon UG students families	230
	2. Vocational training workshop session was organized for Naigaon Adolescent groups with the help of NGO.	50
May	1. Nutrition supplementation & help for Medical Aids from different trustees	60
	2. Health check up of 0-5 yrs. children and health education on child care with the involvement of UG students	
June	1. HT detection program for family member's referrals & intervention in Naigaon BDD chawls. UG students families	250
	2. Awareness session on family care in Kamgar Kalyan Kendra	80
July - August	Awareness & Sensitization sessions on BF conducted in Naigaon community with different groups – eg. women, youth ANC, PNC, Balwadi parents and Marathi school 8 <sup>th</sup> & 9 <sup>th</sup> std.	600
September	Health education and posters exhibition on awareness about waterborne diseases and fever at Kamgar Kalyan Kendra	100
October	1. Health education and posters exhibition on DM care & HT care for Naigaon geriatric OPD patients and eye check up was done for cataract operation	55
	2. Mental health week awareness programme was organized for parents and Adolescent clinic in Naigaon community.	
November- December	1. "World Diabetes day" awareness programme and DM,HT detection camp was conducted for senior citizens of Naigaon community – RBS, HT check up and general checkup was done, health education & posters exhibition on DM care was arranged.	82
	2. Health check up of 0-5 yrs. children and health education on child care with the involvement of UG students	60

*Training and talks in the community*

- Nutrition Exhibition in Ma-Beti Mela at Gender Resource Centre
- Exhibition on Anaemia At Gender Resource Centre of MCGM
- Nutrition Training of the Barefoot councillors at GRC (t
- Camp at Naigaon Diabetes and School Health
- Exhibition on Diabetes and Blood pressure at Naigaon
- Diabetes and Blood pressure at Naigaon
- Exhibition on girl child at Naigaon
- Street Play on Breast Feeding

**Community Outreach Health Services at Rural health Center Sakwar**

The department in collaboration with TIFR & TCS has developed M-Technology project for effective communication, feedback and data management at PHC, sub centre level. Other activities include

- Regular Health check up of 7 aanganwadis under Sakwar sub centre beneficiaries – 284 children
- Regular health check up of 3 balwadis managed by Ramkrishna Mission beneficiaries – 75 children
- Comprehensive health check up with health education for Ashramshala students at Belwadi, beneficiaries - 514
- Regular Health check up of old inmates at Vruddhashram at Sakwar – Beneficiaries - 111
- Regular health education sessions on maternal and child health for tribal women attending Monthly Mahila Shibir at Sakwar RHTC. Beneficiaries – 300-350.
- Certificate course for “Community health worker” : teaching sessions of 7 students ( theory 49 lectures and 38 practical’s)
- ITI students teaching sessions : 70 students – 60 theory lectures on various health topics.

**Activities conducted at Rural Health Center at Khardi**

- Training session on National Pulse-polio programme conducted for health care workers
- Supervision of National pulse-polio rounds
- General health check up at Birwadi.
- Breastfeeding awareness program
- Skit regarding awareness about TB and DOTS treatment.
- Camp “Manav Vikas Prkalp” – health check up of pregnant women and children.
- Organized healthy baby and mother competition
- Over and above this, several talks were taken by all faculty.

**Psychiatry***Community outreach services*

- Women related psychiatric problems are dealt with on every Thursday at Savitribai Phule Stree Sansadhan Kendra, Worli. Clinical and Neuropsychological evaluation of patients with MULTIDRUG Resistant Tuberculosis patients carried out on every Tuesday at Sewri TB Hospital. WHO DOT Plus Programme. Malavani Community Outreach Centre -A community psychiatric health Centre is run by the department at Malavani. Trained psychiatrists examine and treat patients hailing from this area. Psycho educational lectures are taken during community programmes. Individual and 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 1600 patients were evaluated

*Social awareness camps and lectures*

- Dr Ajita Nayak delivered Lecture on “ Internet Gambling Addiction” at Gamblers Anonymous meeting held at Thane. Dr Neena Sawant delivered lecture on ‘to create awareness about Dementia’ at community centers at Chunabhatti and Marine lines. Dr Janhavi Kedare delivered a lecture for parents of students of Maharashtra high school on mental health issues in children. Dr Suresh Borade delivered a lecture on “Schizophrenia ”for students of Maharshi Dayanand College

**Transfusion medicine**

Conducted 180 Blood Donation Camps and collected 32462 units of blood in the year.

# Education



# Education

## Anatomy

Serial number	Courses taught	Intake of Students (for 2011)	Results (% of pass for 2010-11)
1	I MBBS	180	96 %
2	MD Anatomy	06	100 %
3	I B.P.Th.	40	90 %
4	I B.O.Th.	40	70%
5	Nursing	80	--
6	I B.P.M.T	35	60%

Other courses – biomedical engineering, radiotherapy technician course, BSc nursing, and nursing. Workshops on flap dissection, flap dissection, arthroscopy, phonosurgery, functional endoscopy and sinus surgery, shoulder arthroscopy and cochlear implants were conducted along with other departments.

## Anesthesia

- MD Intake: 22 Results: 100%
- DA Intake: 16 Results: 100%
- CPR: Advanced Cardiac Life Support (ACLS) : 30 workshops, attended by 300 students.
- New courses added and Intake: One year fellowship course started with approval from MUHS – Cardiac Anesthesia, Neuro Anesthesia, and Pediatric Anesthesia. 2 students per course.

## Biochemistry

- 15 UG students from basis Sciences all over Mumbai participated in summer training in laboratory.

## Cardiology

- D.M. Cardiology: 6 residents.
- M.D. (Medicine - Allied): residents posted for 3 months
- III BPT and BOT students and Masters in Physiotherapy students posted for clinics.
- SNTD MSc nursing students guided for their thesis.
- Undergraduate students selected and work on KVPY and ICMR studentships.

## Chest Medicine

- International observers: 1 (Medical Student) – 15 days (United Kingdom)
- Elective Trainees: Externs from Russia (3)
- M. Sc. Nursing students from SNTD University and Fortis hospital, Mulund regularly undertake Chest Medicine rotation.
- MBBS, Occupational and Physiotherapy students are regularly posted as part of their curriculum .
- M.Sc pharmaceutical medicine students are posted for clinical research.
- M.Sc Environmental Science & Biotechnology students undertake dissertations

## Clinical Pharmacology

- DM- Clinical Pharmacology 3 seats/ year
- PhD-Applied Biology (Mumbai University) – 4 seats
- PhD-Clinical Pharmacology- 5 Seats
- MSc Applied Biology- 7 students
- Fellowship in Clinical Sciences- 28 students
- M.Sc Pharmaceutical Medicine- 6 students
- UG course in clinical research under the aegis of the MUHS – 38 students
- MUHS Fellowship in Drug Development - 2 seats

## Teaching Programs

- Journal Club (weekly once)

- PG Program/ Seminar (4 times a week)

## **CVTS**

- M Ch- 4 students
- Clinical presentations, journals club, diagnostic catheterization conferences and mortality meeting.
- One year certificate course in the Extra Corporeal Perfusion Technology. – 3 students.
- Lecture series for 2<sup>nd</sup> year BPMT course 2011-12 from MUHS and 3<sup>rd</sup> year practical .
- Six months observation and training to the students recommended by the Bakkenn Institute.

## **Dermatology**

- M.D. Dermatology
- DVD
- Supervised visits to STI centers every 3 months
- IADVL Clinical meet Feb 2011

## **Endocrinology**

- DM Endocrinology
- Diploma Diabetology
- Ph.D. applied Biology
- MSc. Applied Biology: 1 student

## **ENT**

- MS ENT
- Microsurgery workshop
- Cochlear implant workshop with cadaveric dissection
- Micro ear surgery workshop
- Live Otology workshop

## **Forensic Medicine**

- Teaching and training of II MBBS students. Pass percent 100%, 18 distinctions. University Gold medal in Forensic Medicine and Toxicology for Miss Naincy Purwar

## **Gastroenterology**

- DM Gastroenterology: 2 students

## **GI surgery**

- HPB and GI Surgery courses
- Monthly meeting for GI surgery trainees from all over Mumbai
- Clinical training for IInd MBBS students

## **MICU**

- 20 International Observers and Elective Trainees
- 2 batches of 4 Medical Officer from Civil Hospital, Sindhudurg posted for MICU rounds for training in ventilator management.
- 5 students of MSc. Pharmaceutical Medicine -
- Fellowship in critical care 2 students per year
- Seminar on Role of MICU in Monsoon related diseases for MCGM medical officers.

## **Microbiology**

- Planning of national UG curriculum

- A training workshop on “External Quality Assurance Scheme in HIV” for Laboratory technicians in collaboration with MDACS.
- A workshop on “EQAS proficiency panel testing” for ICTCs (District Reference Laboratories) in collaboration with MDACS.
- Six students registered for MD Microbiology
- One student submitted thesis for PhD degree
- One student submitted thesis for M.Sc. Degree
- Two CME programs in tune with the WHO themes” antimicrobial resistance in April and hand hygiene
- An awareness program conducted for all the staff members occasion of World TB day

### **Nephrology**

- DM Nephrology -2
- MSc applied biology- 3
- PhD Applied Biology – 3

### **Neonatology**

- International Observers and Elective Trainees: Miss. Swathi Lakshminarayanan
- DM neonatology – 1
- MUHS fellowship – 2

### **Neurology**

- International observers and Elective trainees- 2

### **Neurosurgery**

- International and national observers attend neurosurgical services.
- Micro neurosurgical laboratory for anatomical dissections, the only kind in Western India
- M.Ch. Neurosurgery - 2 seats

### **Nuclear Medicine**

- DNB in Nuclear Medicine – 2 seats from 2012

### **Nursing**

- School of Nursing conducts 3 ½ years revised G.N.M. Diploma Course
- Total numbers of Students: 1<sup>st</sup> year - 98, 2<sup>nd</sup> year - 97, 3<sup>rd</sup> year - 8, Interns - 66
- Total Students - 346
- Higher Education: Two Staff nurses are sent on deputation for Bsc(Nursing)

### **Obstetrics and Gynecology**

- International observers and elective trainees- 5 + 2 Indian students
- MBBS- 180 students
- DGO- 24
- MS- 56

### **Occupational therapy**

- B.O.Th: 40 seats
- B.O.TH in 2011: 34 students
- M.O.Th: 20 students

### **Ophthalmology**

- International observers and Elective trainees: 2

## Pathology

- Observership offered for Autopsy training and Histopathology training to post-graduates in Pathology and Laboratory Technology training for Paramedical students all over India.
- M.D. (Pathology) – 14 students
- D.M.L.T - 10 students
- Certificate course in Cardiovascular Pathology through the Indian College of Pathology.
- Fellowships in Cytopathology, Renal Pathology, GI Pathology, Cardiovascular Pathology, Pediatric Pathology
- B.P.M.T Course – 22 students.

## Pediatrics

- MD Pediatrics
- DCh pediatrics
- Fellowship course in pediatric intensive care
- Certificate course in respiratory care
- International Observers- 4

## Pediatric Surgery

- PG CME with live operative workshops
- Fellowship course in Pediatric Minimal Access Surgery successfully continued: 3
- Presented 6 papers and 1 poster in the Maharashtra State Chapter Conference 2011
- Presented 4 papers and 2 posters at the National conference of IAPS – Mahabalipuram 2011 and won award for best paper

## Pharmacology

- MD Pharmacology- 3 candidates. 100% results. Dr Deepika Jindal stood first in MUHS
- PhD Applied Biology
- MSc Applied Biology
- Conducting e-quiz for the students of II MBBS and initiation of e-learning activities
- UG student projects for ICMR and KVPY scholarships of the Government of India
- PHARMATECH 2011, a national workshop for postgraduates in pharmacology
- Conducted workshops on Good Clinical Practice, Ethics and Research Methodology

## Physiology

- Postgraduate course in human physiology
- 180 students Ist MBBS
- Integrated lectures for IIIrd MBBS students
- 40 students – FYBOTh
- Training of nursing students of Bombay Hospital, Hinduja Hospital, Hiranandani Hospital and SNTD nursing
- Bachelor of Para-medical technology -1<sup>st</sup> and 2<sup>nd</sup> year
- Training of radiology technicians- Tata Memorial Center and Garware institute

## Physiotherapy

- Bachelors in Physiotherapy – Four years + Six months of Internship – 40 students
- Masters in Physiotherapy – Three years - 18 students

## Preventive and Social Medicine

- A structured training program has been developed for foreign students visiting. There were 2 international students in the year
- MBBS – 180 students
- DPH- 2
- MD – 16
- BPMT- 22



- Leadership in public health management - 4
- Training for students of Postgraduate course in pharmaceutical medicine, Bachelor of Occupational Therapy, Bachelor of Physiotherapy and B.Sc nursing
- Training at Malvani health center – TB, DOTS, DOTS-plus, education for adolescent girls
- Training of interns for pulse polio immunization, management of the fever clinic swine flu epidemic, and malaria awareness in the community.

### **Plastic Surgery**

- International Observers and Elective trainees- Dr. Haness from Germany
- MCh Plastic Surgery- 2 students

### **Urology**

- Mch Urology
- Several workshops and conferences organized including on cadaver organ donation



# Research



# Research

## Anatomy

### *Completed*

- A Study of Lumbar Sympathetic Trunk variations and their clinical correlation
- Surgical Anatomy of Ulnar Nerve in the Cubital Tunnel
- Isolation, Expansion and Transdifferentiation of Mesenchymal Stem Cells from Umbilical Cord Matrix into Endothelial Cells and Comparison of them with Human Umbilical Vein Endothelial Cells (HUVECs)' – in collaboration with the Obstetrics and Gynecology department.

### *Ongoing*

- Microanatomical features of Pituitary Gland
- Efficacy of Multimedia Teaching in Microanatomy: a comparison with Traditional Teaching
- Study of development of Long Bones in Fetuses
- A Study of Ansa Cervicalis and its Variations in Cadavers
- Functional Anatomy of Rotator Cuff
- Anatomy Quiz – A Novel Method of Teaching Anatomy
- Morphometric Study of Suprascapular Notch
- Revisiting the Curriculum in Histology Techniques for Anatomy
- Perceptions of Undergraduate Students on Use of Flashcards as a Mode of Learning Anatomy
- A Study of Variations of Subclavian Artery in Cadavers

### *Student research projects (completed)*

- A Study of Anatomical Variations of Radial Nerve in Cadavers'
- A Study of the Popliteal Artery in Cadavers
- A Study of Left Coronary Artery and its Branches in Cadavers
- A Morphometric Study of Dry Human Sacra

### *Student research projects (ongoing)*

- A Morphometric Study of the Right Atrioventricular valve in Cadavers
- A Morphometric Study of the Human Trachea in Cadavers
- A Study of External Carotid Arteries in Cadavers
- A Morphometric Study of the Arch of Aorta and its Branches in Cadavers
- A Morphometric Study of the Human Dry Typical Thoracic and Lumbar Vertebrae
- A Morphological Study of Human Internal Iliac Artery in Cadavers
- A Study of Brachial Artery in Cadavers
- A Morphometric Study of Various Foramina of the Dry Human Skull
- A Study of Femoral Artery in Cadavers
- A Study of Common Fibular Nerve and Its Branches in Leg in Cadavers

## Anesthesia

- A Randomized parallel group comparative study evaluating the efficacy and tolerability of injection diclofenac sodium 75 mg / 1ml given as an IV injection vs. diclofenac sodium 75 mg / 3 ml given as an infusion in the management of postoperative pain (clinical trial sponsored by Troikaa Pharmaceuticals Ltd)
- Comparison of 0.75% Ropivacaine + fentanyl with Bupivacaine (0.5%) for spinal anaesthesia in lower limb surgeries.
- Comparison of Bupivacaine vs. Ropivacaine in candal block in children.
- Randomized study for evaluation of efficacy as prophylactic antiemetic for post-operative nausea & vomiting to patients undergoing lap surgery.
- Comparison of efficacy of IV paracetamol and Diclofenac for post-operative Analgesia in Neurosurgeries
- Comparison of efficacy of IV paracetamol and Diclofenac for post-operative Analgesia in Neurosurgeries.
- Tei index & ejection fraction for assessment of LV function in MS patients undergoing MVR.
- Comparison between Tranview EVO2 & Mc.coy laryngoscope for intubation using 3 stylets Malleable, straight & directable styllets.
- Comparison of efficacy of Ropivacaine & Bupivacaine for pre-incisional infiltration in tonsillar fossa for post-operative

Analgesia for tonsillectomy in pediatric age group.

- Comparison of Ropivacaine vs. Bupivacaine for Post-op pain relief as peritoneal institution in laproscopic Cholecystectomy - A randomized controlled trial.
- Role of Anesthesiologist in management of low back pain using epidural steroid.
- Randomized prospective study of patient controlled epidural analgesia using fentanyl and bupivacaine vs. patient controlled analgesia with IV Morphine for Major Abdominal surgery.
- Comparison of efficacy of a Ramosetron vs. ondansetron in prevention
- Comparison between palenasetron and Ondensetron in PONV.
- Comparison of haemodynamic responses of hypertensives & Normotensive patient using Macintosh & LMA & Lightwand.
- Efficacy of pre-treatment to prevent withdrawal response of Rocuronium, a comparison of fentanyl with ketamine.
- Role of 0.2% Ropivacaine in thoracic epidural anaesthesia in off pump CABG patient.
- Comparative study between Truview Laryngoscope vs. Macintosh laryngoscope in view of haemodynamic response & POGO Scoring.
- Premedication in children : a comparison between oral midazolam and oral clonidine.
- Prospective study observing outcome following posterior fossa craniotomy in patient with sitting position.
- Compare & analyze effect of Intravenous clonidine V/s. Intravenous Dexmedetomidine on duration of sensory Block, duration of motor block, heart rate & blood pressure in patients of Bupivacaine spinal anaesthesia posted for various surgeries.
- Prediction of difficult intubation.
- Comparison of propofol and etomidate in cardioversion.
- Comparison of intrathecal clonidine in different doses and in combination with fentanyl for abdominal hysterectomy under subarachnoid block.
- PCEA in major abdominal surgeries using bupivacaine and fentanyl in continuous plus bolus infusion Vs. bolus infusion.
- Left Vent. function monitoring with the help of TEE & PA catheter.
- Prospective randomized trial of comparison of lignocaine Vs. esmolol and combination for attenuating cardiovascular response to intubation.
- Effect of priming principle on Induction dose requirement of propofol.
- Efficacy & safety of Tranexamic acid in TKR surgery, ARCT.
- Time course of Neuro muscular action of .6 mg/kg of Rocuronium in young & old patients with or without renal failure patients undergoing Urological surgeries.
- Comparison of Caudal Ropivacaine, Ropivacaine + Neostigmine, Ropivacaine + Ketamin in caudal block.
- Randomized prospective study of dose comparison of tranexamic acid in cyanotic heart disease patients.
- DEXMED effects on Hemodynamic in Lap Cholecystectomy.
- Comparison of Post Op. Epidural Analgesia between Bupivacaine & Ropivacaine in TKR.
- Comparison of Dexmedetomidine Vs. Midazolam in Tympanoplasty.
- Comparison of effect of fentanyl lidocaine propofol and dexmedetomidine lidocaine propofol on Tracheal intubation without use of muscle relaxant.
- Comparison of IV lornoxicam versus IV fentanyl for intra op and post op analgesia in minor to moderate ENT surgeries.
- To study the hemodynamic changes due to CO2 insufflations in pediatric video assisted Thoracic Surgery.
- Randomized Controlled Trial of Tracheal intubation using Airtaq & comparing with Light Wand in Adult patient.

## Biochemistry

### *Ongoing Research Projects*

- Biophysical properties and toxicity of small amyloid peptides
- Role of Laser assisted hatching in rat (assisted productive technique) to improve pregnancy rate
- Biochemical and immunological characterization of monoclonal antibodies against Tetanus toxin
- Evaluation of antiproliferative and antiangiogenic activity of bioactive compounds present in *Curcuma Longa* and *Tinospora Cordiofolia* in cervical cancer
- Biochemical parameters in HIV/TB CO infection
- Re-evaluation of healthy ranges of liver enzymes and analysis of red cell membranes in patients with liver diseases, sperm

membrane integrity in male factor indications and in unexplained infertility

- Evaluation of biochemical parameters in young hypertensives
- Composition of blood cell membrane and plasma lipids in children with Protein Energy Malnutrition

## Cardiology

### *Ongoing*

- 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
- 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.
- A Comparison of Prasugrel and Clopidogrel in Acute Coronary Syndrome (ACS) Subjects with Unstable Angina/Non-ST-Elevation Myocardial Infarction (UA/NSTEMI) Who are Medically Managed – The TRILOGY ACS Study
- Randomized, double-blind, triple-dummy trial to compare the efficacy of otamixaban with Unfractionated Heparin + eptifibatide, in patients with Unstable angina/Non ST segment Elevation Myocardial infarction scheduled to undergo an early invasive strategy
- An investigator-initiated and conducted, collaborative, phase III, multi-centric, open label, randomized, controlled trial of continuous positive airway pressure for the treatment of obstructive sleep apnea to prevent cardiovascular disease”. SAVE (Sleep Apnea cardiovascular Endpoint study)
- A multicenter, randomized, double-blind, parallel group, active-controlled study to evaluate the efficacy and safety of LCZ696 compared to enalapril on morbidity and mortality in patients with chronic heart failure and reduced ejection fraction

### *Completed:*

- PREDICT (Perceive risk of Ischemia & Bleeding in acute coronary syndrome patients).
- An International Multicentre Randomized Controlled Trial of Intensive Insulin Therapy Targeting Normoglycemia In Acute Myocardial Infarction

## Chest Medicine

### *Ongoing*

- Asthma prevalence study in school children
- Prevalence of Asthma and effects of Air pollution on Asthma in collaboration with National Environment Engineering & Research Institute (NEERI).
- Allergen Testing in Asthma patients
- Effects of Tuberculosis on Lung after treatment
- PFT and post TB

### *Completed Projects*

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

## Clinical Pharmacology

### *Ongoing (Academic)*

- Evaluation of pharmacokinetics of single dose Primaquine 15 mg in patients with hepatic dysfunction
- Evaluation of pharmacokinetics of single dose Primaquine 15 mg in healthy human volunteers
- Application of proteomics to aid biomarker discovery in patients of P.vivax and P.falciparum malaria.

- Evaluation of children with learning disabilities using psychomotor tests on Mindomatics™ software.
- Pharmacogenomics of CYP2C19 with pharmacodynamics of clopidogrel
- Evaluation of pharmacokinetics of single dose Primaquine 15 mg in patients with renal dysfunction
- Pharmacokinetics of Primaquine in malaria patients.
- Evaluation of polymorphisms of CYP2B6 and CYP3A5 in HIV-1 infected patients and association with Nevirapine adverse events.
- Evaluation of polymorphism of Cytochrome P4502B6 by genotyping in HIV patients on Efavirenz therapy and co-relating with safety
- Evaluation of Pharmacokinetics of anti-malarial drugs in children.

#### *Sponsored projects:*

- Analysis and search for leads from research project reports supported by DBT through the Medicinal and Aromatic Plants Task Force
- Pharmacogenomics of anti-epileptic drugs: Role of ABCB1, CYP2C9, CYP2C19, SCN2A and SCN1A in optimizing the therapy
- Pharmacogenomics of CYP2C9, VKORC1 and CYP4F2 with adverse effects of warfarin
- Comparative evaluation of efficacy and primaquine SR tablets vs Primaquine conventional tablets in the prevention of relapse of plasmodium vivax malaria
- Assessment of cytochrome P450 genotype (CYP 2E1) & relation to succetpibility to anti tuberculosis drug induced hepatotoxicity in patients with tuberculosis at a tertiary referral centre.
- Association of genetic polymorphisms of cytochrome P450 2C9(CYP2C9) with diphenylhydantoin induced adverse reactions in epileptic patients.
- Pharmacogenetics of Adverse Drug Reactions : Role of drug metabolizing enzymes and VKORC1 polymorphisms in reducing drug toxicity due to antitubercular drugs and Warfarin.
- Magnetic Resonance spectral analysis of urine samples from malaria patients admitted to KEM Hospital, Mumbai (Pilot Study).
- Phase III trial of FDC of Arterolane maleate and PQP tablets in patients with acute uncomplicated P.Vivax malaria.
- Comparative evaluation of efficacy and safety of primaquine SR tablets vs primaquine conventional tablets in the prevention of relapse of plasmodium vivax malaria.
- Three way, three period, cross over bioequivalence study of single oral dose of three brands of 300mg Phenytoin sodium tablets marketed in India, on healthy Indian human volunteers

## **Cardio Vascular and Thoracic Surgery**

#### *Ongoing projects*

- Safety and Efficacy of Intracoronary and Intramyocardial delivery of autologous bone marrow mononuclear cells in patients with triple vessel coronary artery disease and left ventricular dysfunction undergoing surgical revascularization.
- Randomized study to assess efficacy of three different ablative procedures to treat atrial fibrillation in patients with valvular heart disease.

## **Endocrinology**

#### *Ongoing*

#### *Academic projects*

- Genotype-Phenotype Correlation in Indian Patients with Pheochromocytoma/Paraganglioma.
- Genotype, Phenotype and Radiological Correlation of Idiopathic Hypogonadotrophic Hypogonadism
- Phenotype and Genotype correlation of growth hormone deficiency
- Prevalence of Cushing syndrome in patients with Type 2 DM in Indian patients.
- Study of efficacy of ketoconazole and/or cabergoline in uncured Cushing disease
- Molecular Genetics in Vitamin D and Bone Mineral study
- Evaluation of Salivary Cortisol in the diagnosis of Cushing syndrome

#### *Pharmaceuticals*

- Clinigene study: A phase III 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 Calcium and Vitamin D



- SYR-322-OLE-012: A Long Term Open Label Extension Study to Investigate the Long Term Safety of SYR110322 (SYR-322) in Subjects with Type II Diabetes
- GENESIS study: The Genetic and Neuro Endocrinology of Short Stature International Study (GeNeSIS)
- Exenatide Study: "A Comparator-Controlled Study to Examine the Effects of Exenatide Once Weekly Injection on Glucose Control (HbA1c) and Safety in Asian Subjects with Type 2 Diabetes Mellitus Managed with Oral Antidiabetic Medications." (Study ID: H8O-MC-GWCK)
- Generations Study :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"
- Emerge 8 study: "A randomized double blind, placebo-controlled clinical trial to assess the effects of Taspoglutide (RO50730310 on cardiovascular outcomes in patients with in adequately controlled type 2 diabetes and established cardiovascular disease
- SHOX study: A 26 week randomized, controlled, open label, multicentre, multinational, 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.
- LEADER study: Liraglutide Effect and Action in Diabetes: Evaluation of cardiovascular outcome Results. A long term, multi-centre, international, randomized double-blind, placebo- controlled trial to determine liraglutide effects on cardiovascular events.
- DUAL study: A 26 week randomized, parallel three-arm, open label, multi-center, multinational treat-to-target trial comparing fixed ratio combination of insulin degludec and liraglutide versus insulin degludec or liraglutide alone, in subjects with type 2 diabetes treated with 1-2 oral anti-diabetic drugs(OADs).
- Growth Hormone study: A randomized, open-label, parallel-group, multi-centre trial comparing the efficacy and safety of 12 months treatment with one daily dose of ZOMACTON® to one daily dose of GENOTROPIN® in the treatment of children with idiopathic growth hormone deficiency.

#### *Studies in Collaboration*

- ICMR National Project: To formulate Registry of people with Diabetes with Young Age at the Onset in Western India
- Study of PON1 gene variants and its association with cardiovascular disease (CVD) risk factors in women with PCOS
- Efficacy of Stereotactic conformal radiotherapy (SCRT) compared to conventional radiotherapy in minimizing late sequel in children and young adults with brain tumors (SCRT Trial)

#### *Completed*

- A genetic analyses of polycystic ovary syndrome with special emphasis on genes involved in insulin resistance - collaboration with NIRRH

## **Gastroenterology**

#### *Ongoing projects*

- AST and ALT levels in normal healthy volunteers
- Anorectal manometric parameters of healthy adult volunteers.
- Intestinal permeability in Portal Hypertension compared with that in normal subjects
- Evaluation of Pharmacokinetics of single dose Primaquine (15mg) in patient with hepatic dysfunction .
- Histopathology features of acute on chronic liver failure and its relation to clinical outcome.

#### *Completed projects*

- Non cirrhotic portal fibrosis may not be a dying disease.
- Predicting response of therapy in achalasia cardia on High Resolution Manometry (HRM)
- Assessment of nutritional status in Patients with ulcerative Colitis.
- Application of newer classification of achalasia cardia
- Role of Anorectal Manometry in predicting outcome of colostomy closure.
- Pregnancy outcome is poor Women with Hepatic Venous Outflow Tract Obstruction.
- Characterization of minimal hepatic encephalopathy standardization and validation of the psychometric hepatic encephalopathy score (PHES) A multicenter Indian Study.
- Immune events, transcriptomics and biomarkers in hepatitis E pathogenesis.
- Study of colonic transit time on patients of irritable bowel syndrome and their correlation with Bristol stool score.

- To study the role of socioeconomic factors in patients of hepatic venous outflow tract obstruction (HVOTO).
- Evaluate and compare the acid inhibitory effects of Rabeprazole and Pantoprazole with reference to CYP2C19 phenotype and genotype status in normal healthy.
- An association of Immunogenetic and autoimmune parameters with clinical manifestations in Inflammatory Bowel Disease (IBD) patients from Western India.
- To study cost effectiveness of lactulose and rifaximin treatment in hepatic encephalopathy

## GI Surgery

### *Ongoing Projects*

- Correlation of medial margins and recurrence in pancreaticoduodenectomy
- Study of structure and function of colon after colectomy
- Study of Portal Biliopathy
- Laparoscopic Structured training versus Traditional Training
- Anesthetic Lozenges for endoscopy ( Trial)
- Hepgel at IV site ( Trial)
- Factors affecting outcome in surgery for Ulcerative Colitis

## Forensic Medicine

### *Completed*

- Erdheim-Chester disease with extensive coronary involvement.

## Medicine

- Double blind placebo controlled clinical trial to evaluate the efficacy and safety of interferon alfa n3 in addition to standard of care in adults hospitalized due to severe acute influenza.
- Prospective, multicentric , double blind randomized, phase 3 clinical study to compare efficacy and safety of intravenous Kallikrein versus Placebo along with standard supportive care in treatment of mild to moderate ischemic strokes.
- The study on the discordant seropositive couples in relation with incidence, use of contraception and willingness to start family.
- A Randomized, Double-blind Phase 2b Study to Evaluate the Efficacy, Safety, and Tolerability of A-623 Administration in Subjects with Systemic Lupus Erythematosus (AN-SLE 3321)
- OSKIRA 2 – D4300C00002: A Phase III, Multi-Centre, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study of Two Dosing Regimens of Fostamatinib Disodium in Rheumatoid Arthritis Patients with an Inadequate Response to DMARDs
- OSKIRA-X - D4300C00005: A Long-term Extension Study to Assess the Safety and Efficacy of Fostamatinib Disodium (FosD) in the Treatment of Rheumatoid Arthritis

### *Ongoing Projects*

- Study of Central Nervous System manifestations in HIV patients.
- Study of Neurological manifestations in Vivax malaria.
- Retrospective and prospective study of patients with aortoarteritis.
- Study of hypertension in elderly subjects.
- Role of relaxation therapy in patients with hypertension
- A prospective observation study to evaluate prescription patterns and factors affecting drug use in geriatric hypertensive patients in a tertiary care hospital.
- Evaluation of important biochemical parameters in young
- Lifestyle risk factors and effectiveness of lifestyle interventions on Metabolic Syndrome' in collaboration with department of Biochemistry
- Assessment of cognitive performance in Hypertensive and normotensive individuals of age group 40 to 75 years in collaboration with department of physiology
- Assessment & enhancement of Communication Skills in Post Graduate students of MEDICINE DEPARTMENT
- Open label, randomized dose escalation phase I study in adult volunteers to evaluate safety and pharmacokinetics of human monoclonal antibodies to rabies in comparison to human immune globulin in conjunction with rabies vaccine.- Collaborations pharmacy dept./ Bharat serum

- Open labeled randomized controlled trial of comparison between leucocytes reduced blood transfusion & regular non leucocyte reduced blood transfusion in severe falciparum malaria. - ICMR project.
- Colistine pharmacokinetics in critically ill patients admitted in MICU. - Clinical pharmacology/ cipla ltd.
- Beside estimation of glomerular filtration rate in hospitalized elderly(age  $\geq$  60 yrs) patients and effect of co- morbid conditions and drug treatment on the glomerular filtration rate. - MICU
- Effect of glutamine supplementation in critically ill patients. - MICU/ Medicine dept.
- Adverse events in MICU - ICMR project
- Hemodynamic monitory using pulmonary artery catheter in patients of leptospirosis with ARDS - ICMR project.
- Clinical profile, complications and ventilator outcome of guillain barre syndrome patients in MICU
- Adverse drug events in Geriatric indoor patients.
- Study of Myocardial function in patients of Sepsis.
- Clinical profile, complications, outcome with assessment of SOFA score of patients admitted in MICU for invasive ventilation.

#### *Completed Projects:*

- Study of clinical & thrombophilia profile in young patients(< 45 yrs)
- Study of ABPI and its correlation with diastolic Blood pressure, dyslipidemia and anthropometric measurements
- Study of prevalence of Hypertensive Crisis and their relation to diastolic blood pressure and other factors

#### *Presentation*

- Study of Hypertension in Young
- Study of Anemia prevalence among Female Employees of Tertiary Care Hospital
- Asymptomatic Hyperuricemia in Hypertensive Subjects
- Study of the effects of Lifestyle Modifications on the blood pressure in Hypertensive subjects
- Congenital Methemoglobinemia in Adults-A Rare Case
- Neuroleptic Malignant Syndrome with Myriad Features –An Unusual Case
- Assessment of Left Ventricular Function in Hypertensive Subjects.

## **Microbiology**

#### *Ongoing projects*

- A multicentric national project on “A population based surveillance of invasive disease caused by S.pneumoniae or H.influenzae or N.meningitidis in children less than 5 years of age in India”
- Comparison of an automated blood culture system (BACTEC 9050) with conventional blood culture for rate and time to recovery of aerobic bacteria from blood
- Comparison of PCR and conventional blood culture for detection of bacterial pathogens in blood
- Prevalence of parasitic infections in school children
- Bacterial blood stream infections in HIV infected individuals
- Carbapenem resistance mechanisms in enterobacteriaceae in a tertiary care hospital
- Association of HLA with HIV-1 transmission in serodiscordant couples
- Surveillance of pathogens and their resistance pattern in urinary tract infections in HIV infected patients
- Diagnosis of pediatric tuberculosis with special reference to PCR and urinary lipoarabinomannan assay
- Re-evaluation of the diagnostic titer of H and O agglutinins in Widal test for the diagnosis of typhoid fever in Mumbai
- Multilocus sequence typing of Groups A,C and G Streptococcal clinical isolates from Mumbai
- The role of real time PCR in detection and determining drug resistance in tuberculosis with BARC

#### *Completed projects*

- Identification and speciation of Malassezia in patients clinically suspected of having Pityriasis versicolor and Seborrheic dermatitis
- Biofilm forming capacity in different species of Staphylococci
- Characterization of staphylococcal cassette chromosome mec types I to V in clinical isolates of methicillin resistant Staphylococcus aureus in a tertiary care hospital in Mumbai
- The ever increasing reservoirs in the health care environment – The Role of Health Care Workers
- Utility of a simple rapid ICT test (Enterocheck WB) for typhoid fever in comparison to conventional Widal test.

## Nephrology

- Darbepoetin clinical Trial : CDP/02/07 A randomized, open label, multicenter study to evaluate the efficacy and
- Safety of Darbepoetin as compared to Erythropoietin in patients with anemia of chronic kidney disease (CKD )
- Prophylactic versus as and when dialysis in acute kidney injury
- Adult onset nephritic syndrome: clinical spectrum and outcome
- Spectrum of Renal diseases at a tertiary care referral center
- Comparison and prediction of 24 hrs Proteinuria from spot urine protein creatinine ratio and protein osmolality ratio
- Clinical profile, antibiotic susceptibility and treatment outcome in Urinary Tract Infection due to (ESBL)
- Extended spectrum Beta Lactamase producing bacteria.
- Evaluation of Music Therapy on progression in patients with Chronic Kidney Disease a prospective randomized controlled study
- Isolation, characterization of multipotent renal progenitor cells & its evaluation in the experimental animal model of Acute Renal Ischemia & reperfusion Injury

### *Completed project*

- New onset diabetes in renal transplant
- Post Transplant Erythrocytosis

## Neonatology

- Comparison of NIPPV with NCPAP as a weaning mode in babies with RDS Dr. Ruchi Nanavati
- INSURE : An Indian experience
- Randomized control trial of fluid restriction in term neonates with Hypoxic Ischemic Encephalopathy
- Role of CD64 in the diagnosis of Neonatal Sepsis
- Evaluation of CD11b, CD64, CD88, CD 282 as early diagnostic markers in detection of neonatal sepsis

### *Collaborative projects*

- Ophthalmic evaluation of normal babies and High Risk NICU graduates in collaboration with KB Haji Bachooali Charitable Ophthalmic and ENT hospital, Facility Based Newborn Care in collaboration with National Reproductive and Child Health Program of Ministry of Health & Family Welfare, Government of India supported by Norway India Partnership Initiative (NIPI) & UNICEF
- Newborn Screening in collaboration with Indian Council of Medical Research
- Evaluation of CD11b, CD64, CD88, CD 282 as early diagnostic markers in detection of neonatal sepsis in collaboration with National Institute of Immunohematology
- Association of HLA with HIV infection Mumbai.
- Role of CD64 in the diagnosis of Neonatal Sepsis
- Comparison of Polymerase Chain Reaction (PCR) and conventional blood culture for detection of bacterial pathogens in blood with Dept. of Microbiology.

## 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.

## 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
- 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
- A phase 2 multicenter, double blind, placebo controlled, Dose ranging study to determine the safety and efficacy of Daclizumab HYP (DAC HYP) as a monotherapy treatment in subjects with Relapsing – Remitting Multiple Sclerosis (MS)
- A double blind randomised placebo-controlled multicenter study to compare the efficacy and safety of intravenous Kallikrein versus placebo along with standard supportive care in treatment of mild to moderate ischemic strokes

- A doubleblind, randomized, placebo controlled multicenter study to assess the efficacy and safety of adjunctive zonisamide in Pediatrics partial onset seizures
- A doubleblind, randomized, placebo controlled multicenter parallel group study to evaluate the efficacy and safety of Brivaracetam in subject ( $\geq 16$  to 80 yrs old) with partial seizures

## Occupational therapy

### *Ongoing projects*

- To study the effectiveness of “D” chair on fine motor skills in children with Down’s syndrome: A comparative study
- To study the effect of early vestibular rehabilitation on balance after acoustic neuroma surgery: A comparative study
- Effectiveness of mental practice as an adjunct to occupational therapy intervention in improving upper limb function in patients with stroke: A randomized controlled trial
- To study the effectiveness of a client centered occupational therapy intervention in patients with Guillian Barre Syndrome: A randomized controlled trial
- To study the effectiveness of finger abduction splint as an adjunct to occupational therapy in patients with stroke: A randomized controlled trial
- To study the effectiveness of proprioceptive neuromuscular facilitation technique as an adjunct to occupational therapy in chronic low back: A randomized controlled trial
- Effectiveness of neutral wrist metacarpo-phalangeal hyperextension splint in carpal tunnel syndrome: A randomized controlled trial
- To study the effect of dynamic microstomia splint on mouth opening in facial burn: A comparative study
- To study the effect of shoulder gliding exercises along with occupational therapy in the management of frozen shoulder: A comparative study
- Effectiveness of swiss ball & theraband exercises as an adjunct to occupational therapy in ankylosing spondylitis: A randomized controlled trial
- Effectiveness of neuromuscular and proprioceptive training as an adjunct to occupational therapy in rheumatoid arthritic hand: A randomized controlled trial
- To study the effectiveness of visual perceptual training on handwriting skills in children with handwriting dysfunction
- Hemophilia Rehabilitation since 2007.
- To develop model of early intervention for infants at risk for developmental disabilities in India

## Obstetrics & Gynecology

### *Ongoing*

- Endometrial thermal balloon ablation
- Genital prolapse staging: modified POP-Q classification
- Results of site specific repair of genital prolapsed
- Prevalence of Infertility in India
- Phase III-Multicentre Clinical Trial with Subdermal Single-Rod Contraceptive Implant – Implanon.
- A study on Teenage Pregnancy & its outcome.
- Hospital based surveillance of female genital fistula
- Evaluation of Progesterone Vaginal Ring (PVR) as a new contraceptive option in India
- Tranexamic acid for the treatment of postpartum hemorrhage: An International, randomized double blind, placebo controlled trial
- Formulated and submitted a detailed project ‘Sexual Practices in Pregnancy and Puerperium
- Evaluation of role of parenteral Progesterone for continuation of pregnancy in cases of threatened abortion.
- Comparative study of visual inspection of cervix by 3% acetic acid versus Pap smear by Bethesda method in a sexually active women reproductive age group as an equally or more effective cervical cancer screening method in a low resource setup.
- Effect of head low position in post spinal headache in low risk Cesarean section patients.
- Evaluation of factors responsible for anaemia in registered antenatal cases and development of strategies to reduce anaemia in labour.
- Use of Human Fetal Samples as Referral Controls during Differentiation and Pre- clinical Evaluation of Human Embryonic Stem Cells” in collaboration with National Institute for Research in Reproductive Health

- Cryopreservation of Primordial Follicles and In Vitro Culture of Primordial Follicles
- To establish normal ranges for lymphocyte subsets in cord blood obtained from aborted fetuses of 15- 20 weeks of gestation which can be utilised for the antenatal diagnosis of primary immunodeficiency disorders
- To determine the Efficacy of Oral vs Vaginal Misoprostol for Induction of Second Trimester Abortions”
- Contraceptive vaginal ring releasing Etonogestrel and Ethinylestradiol (NuvaRing): Cycle control, acceptability and tolerability study in Indian women
- Association of Host Immunogenetic Factors with HIV infection
- Obstetric Care in Mumbai: An Ethics Analysis
- Collectins and other immune related proteins in immunoregulation of pregnancy maintenance
- Clinical collaborator in NIRRH research project “Association of Chlamydia trachomatis infection and HLA in the manifestation of reproductive complications”
- Clinical collaborator in NIRRH research project “Association of host immunogenetic factors with Human papillomavirus (HPV) infection in development of cervical cancer in Indian women
- Embryo loss due to epigenetic disturbance in the male germ line
- Purification of immune related proteins from pooled human amniotic fluid collected at term”
- Embryo loss due to epigenetic abnormalities in the male germ line”
- Association of host immunogenetic factor with HPV infection in development of cervical cancer in Indian women

## Orthopedics

- Functional and Radiological outcome of large head uncemented total hip replacement in patients of ankylosing spondylitis with fused hips.
- Does mechanical axis restoration predicts good clinical outcome after Total Knee Replacement (TKR) ? – Retrospective study with minimum of 10 years followup.
- CT Based morphometric analysis of cervical pedicle in Indian population – Is transpedicular screw fixation feasible?
- Invitro analysis of antibacterial efficacy of vancomycin and Teicoplanin when mixed with antibiotic leaded Bone cements in varying concentration against MRSA.
- Comparative evaluation of results of fixation of inter trochanteric fracture of neck of femur type 3, 4 and 5 with bone graft and without bone graft.
- Evaluation and comparison of stable and lax distal radiocarpal joint and wrist joint in fractures of lower end radius treated conservatively with closed reduction and multiple k wire fixation.
- Complication of fibula grafting at donor site
- Anatomic consideration of anterior trans articular screw fixation in atlantoaxial instability in Indian population
- Long term clinical and radiological followup cemented Total Hip Replacement
- Biomechanics of Rigid Kyphotic curves in its correction.

## Pathology

### *Ongoing projects*

- Comparative Evaluation of Malaria Rapid Diagnostic Test Kits” Purpose: To evaluate an unknown kit in comparison with the standard known kits and with the gold standard “peripheral smear
- Effect of Bacopa Monniera extract on lipid peroxidation of cultured human endothelial cells. A cell culture approach

## Pediatric surgery

### *Ongoing studies*

- Efficacy of propranolol in the management of cutaneous hemangiomas
- Surgical site infections in pediatric surgical practice
- Comparison of different products in the prevention of peri stomal excoriations
- Role of conservative surgery in the management of ovarian torsion
- Study of head injury
- Efficacy of topical Betamethasone in the management of phimosis
- Biliary Atresia – follow-up
- Role of USG guided hydrostatic reduction of intussusception in pediatric population

## Pediatrics

### *Ongoing*

#### *Sponsored projects*

- A Phase 3, Randomized, Multi-Center, Multi-National, Double-Blind Study to Evaluate the Efficacy, Safety and Pharmacokinetics of Once Daily Versus Twice Daily Dosing of Genz-112638 in Patients With Gaucher Disease Type 1 Who Have Demonstrated Clinical Stability on a Twice Daily Dose of Genz-112638 (EDGE)
- A phase IV open label, randomized, parallel group, multicentre study to determine and compare reactogenicity of Pentavac vaccine of SIIL with Tritanrix of GSK in Indian infants.
- A Phase IV Open Label, Randomized parallel group, multicentric clinical study to determine and compare reactogenicity of pentavac vaccine of SIIL with Tritanrix- HB + Hib of GSK in Indian infants.
- Newborn Screening for Congenital Hypothyroidism & Congenital Adrenal hyperplasia: A Multicentric Study'- A National pilot project.
- A Phase IV Open Labelled, Randomized, Parallel Controlled Multicentric Study to assess reactogenicity of Pentavac (SIIL) against Tritanrix – HB + Hib (GSK) vaccine

#### *Academic projects*

- Clinical profile of childhood asthma in a tertiary care centre.
- Parental Perceptions of their child's asthma, management and medication use.
- Thrombocytopenia in children – A study of Clinical, Biochemical profile and Therapeutic outcome.
- Evaluation of Pharmacokinetics of Antimalarial Drugs in children.
- A study of comparison between blood transfusion/conservative management among severe anemia patient with malaria at a tertiary care centre.
- Factors influencing the prognosis of epilepsy in children.
- Optimal Breast feeding practices-Are they a myth or reality- An observational survey.
- Clinical Profile and Outcome of Acute Respiratory illness in patients admitted to Pediatric intensive care unit of Tertiary Care Teaching Hospital.
- Quality of life in HIV infected children in relation with CD4 count and ART treatment
- Current status of disease severity and chloroquine responsiveness in children with P. vivax malaria.
- Efficacy of antipyretic prophylaxis & antipyretic with Clobazam prophylaxis in prevention of recurrence of simple febrile seizures
- Role of FNAC in evaluation of lymphadenopathy in pediatric age group & its clinicopathological correlation.
- Evaluation of pharmacokinetics of Chloroquine in children
- Nasal carriage of MRSA & antibiotic susceptibility in healthy preschool children
- Correlation between Clinical features & neuroimaging findings in children with epilepsy.
- Gaucher's disease – Clinical characteristics, genotype-phenotype association & response to enzyme replacement therapy.
- An intervention for improvement in knowledge & attitude of parents/guardians as regards inhalational therapy in pediatric asthma.
- To determine risk factors for mortality in HIV-positive pediatric patients on ART.

#### *Completed*

- Clinical co-relation & evaluation of Spirometry in children with asthma
- Perception of grandmother regarding breast feeding.
- Efficacy of ACE-1 inhibitors when used along with digoxin and/ or diuretics in treatment of congestive heart failure in children.
- Study of spectrum of congenital heart disease & associated anomalies in a tertiary care hospital.
- Correlation between clinical manifestations and immunosuppression (CD4 level) in HIV-infected children
- Role of Therapeutic Drug Monitoring of Anticonvulsants in Management of children with Epilepsy.
- Quality of life in children with congenital heart disease following non-surgical cardiac intervention.
- The study of the incidence, etiology, risk factors and outcome of ventilator associated pneumonia in a tertiary care level III Pediatric intensive care unit of public hospital
- Factors affecting ART adherence among children- parent's perception.

*Faculty projects*

- An assessment of asthma- related anxiety levels in parents/ guardians of children with asthma using the “Parent Asthma-Related Anxiety Scale (PAAS)” (Principal investigator- MUHS Fellowship in Pediatric Respiratory Disorders).
- Evaluation of modes of weaning from mechanical ventilation
- Evaluation of packed Cell requirement in Pediatric Critical Care Unit
- A phase IV open label, randomized, parallel group, multicentre study to determine and compare reactogenicity of Pentavac vaccine of SIIL with Tritanrix of GSK in Indian infants.
- Hypo and Isotonic Maintenance fluid in Pediatric Patients
- Prevalence of Fungal Infection in Pediatric Critical Care Unit
- Cross-sectional, observational study to assess the use of off-label drugs in Pediatric outpatient department at a tertiary health care center. MSc in Pharmaceutical Medicine.
- Comparison of beta-hexosaminidase activity in human fibroblasts and leukocytes
- Mamta Muranjan, S. Mallakmir: Mucopolysaccharidosis: A study of clinical features and complication, project completed. Fellow in Clinical Genetics, MUHS.
- Clinical Correlation & Evaluation of Spirometry in Children with Asthma
- Study of Strategies for Weaning Pediatric Patients from Mechanical Ventilation
- Packed Red Cell Transfusion Practices at a Tertiary Care Level Pediatric Intensive Care Unit: A Prospective Observational Study
- An assessment of asthma- related anxiety levels in parents/ guardians of children with asthma using the “Parent Asthma-Related Anxiety Scale (PAAS)
- A study of thrombocytopenia in a tertiary care Pediatric intensive care unit
- Cross-sectional, observational study to assess the use of off-label drugs in Pediatric outpatient department at a tertiary health care center
- Cross-sectional, observational study profile of pediatric patient with convulsion disorder
- Correlation of Quality of Life of Thalassaemic patients with serum ferritin levels
- Prospective Observational Study of Sodium levels in indoor patients receiving isotonic verses hypotonic maintenance fluids.
- Study of fungemia in pediatric intensive care unit and associated risk factors
- Cross sectional, observational Association profile of Acute Diarrhoeal Diseases in Children with Malnutrition in Pediatric Department.

**Pharmacology***Ongoing projects**Academic*

- Evaluation of protective effects of Indian medicinal plants on cardiovascular system using in vivo & in vitro experimental models
- Fixed dose combination – determination of their usage by prescription audit & a critical appraisal of their rationality
- Assessment of effectiveness and impact on quality of life of different treatments for rheumatoid arthritis
- A prospective observational study to evaluate prescription patterns and factors affecting drug use in geriatric hypertensive patients in a tertiary care hospital
- Evaluation of effect of Mandurabhasma on structural and functional integrity of small intestine in comparison with ferrous sulphate using an experimental model of iron deficiency anemia
- Evaluation of drug utilization & awareness of antidiabetic medication in patients suffering from diabetes attending the endocrinology OPD in a tertiary care hospital
- Evaluation of antidepressant activity of piracetam in animal model of behavioral despair
- Reduction in ethanol consumption by ceftriaxone and ampicillin compared to naltrexone in potentially alcoholic rats
- Effect of Putranjiva roxburghii and Curculigo orchoides on phagocytosis and chemotaxis by polymorphonuclear cells (in vitro study)
- Biological confirmation of the HPTLC results of steroidal adulteration in Ayurvedic drug sample
- An observational study to determine the presence of any association between different “prakritis” as described in Ayurveda and disease severity, subtypes and quality of life in patients of Irritable Bowel Syndrome
- Exploratory study of healthy volunteers for the assessment of Dhatusarata



- Analysis of NSAIDS usage and prescription monitoring in Orthopaedic OPD in KEM hospital
- Evaluation of drug utilization in ante-natal care outpatient department of a tertiary care hospital in Mumbai
- Participation of Human volunteers (non patients) in clinical research studies conducted at a tertiary care hospital – a review of ethical issues
- Ethical issues in biomedical research: Analysis of research projects submitted to the ethics Committee of a tertiary care hospital in Mumbai
- Evaluation of symposium /seminar as teaching learning tool in post graduate curriculum

#### *Industry sponsored*

- Effect of Extramune Tablet and Extramune Syrup on phagocytosis and chemotaxis, by polymorphonuclear cells (in vitro study). Sponsored by Charak Pharma Ltd

#### *Completed Projects*

##### *Academic*

- Evaluation of effects of Indian medicinal plants on coagulase negative Staphylococci and Staphylococcus aureus in biofilm state: An in vitro study
- To study the effects of Indian medicinal plants on intestinal mucosal barrier in experimentally produced gastrointestinal dysfunction in animals
- Evaluation of antidepressant activity of Indian medicinal plants in experimental models of behavioral despair
- Evaluation of analgesic activity of dashamula using thermal, chemical & mechanical models in rats and mice
- To evaluate antidepressant activity of statins alone and in combination with fluoxetine in acute and chronic behavioral models of depression
- Effectiveness and Impact on quality of life of different treatments for rheumatoid arthritis: A cross-sectional study
- Evaluation of serious adverse event (SAE) reports: An ethical perspective
- Completeness of project application forms submitted to institutional ethics committee (IEC) of a tertiary care hospital
- Compensation for Participation in Research: A Review of Protocols and Informed Consent Documents Submitted for Review to two Ethics Committees
- Knowledge, attitude and practices toward medical research among resident doctors: A survey at a tertiary care hospital
- Drug utilization pattern and cost Analysis in rheumatoid arthritis patients – a cross sectional study in tertiary care hospital, Mumbai
- A study of application forms submitted to the Ethics Committee
- Knowledge, attitude and practices toward Ayurvedic medicine use among resident doctors: A survey at a tertiary care hospital
- Students perception regarding pharmacology teaching using role play method (RPM) and case based learning (CBL)
- To develop and introduce active learning modules in small group teaching for II MBBS students in pharmacology

#### *Industry Sponsored*

- Oral Nutrition supplementation (ONS) in hospital patients
- A prospective, controlled, randomized, comparative study to evaluate the glycemic index of rice (food) production healthy volunteers

## **Physiology**

#### *Completed Research*

- The effect of yoga on some physiological parameter in healthy individuals between 30-45 years
- Comparative study of VO<sub>2</sub> Max & physical fitness in trained aerobic dancers & working women of age group 30-45 years
- To study anaerobic capacity & body composition in first year medical students
- Study of circadian rhythm changes in peak expiratory flow rate in healthy young adults
- Co-relation of pulmonary function tests with body fat percentage in young normal weight & overweight students of first year MBBS course
- To study aerobic capacity (VO<sub>2</sub> Max) in first year medical students
- Effect of alternate nostril breathing on cardiorespiratory and autonomic variables in young healthy adults
- A study of cognitive scores in hypertensives and normotensives

*Ongoing Research*

- Gender differences in effects of cognitive stress on working capacity
- Comparative study of physical fitness parameters between working women and housewives aged 20-40 years
- Determining the norms for aerobic capacity in young healthy Indian population aged 18-25 years
- Comparative study of auditory and visual reaction time in normal young Indians and players of Indian sports Kho-kho and kabaddi
- Study of physical fitness in cricket players in Mumbai
- Comparative study of cardio-vascular autonomic responses in children age group 18-25 years of parents having diabetes and non-diabetes
- Comparative study of visual and auditory reaction time in resident doctors before and after 24 hours emergency duty
- Effect of different musical tempo on post exercise recovery and VO2 Max in young adults
- Comparative study of pulmonary function tests and its co-relation to BMI in athletes and non-athletes

**Preventive and Social Medicine***Ongoing*

- A cross-sectional study of cost effective analysis of the health care services provided per patient per day in a municipal general hospital and a private hospital.
- Epidemiological Study Of Acute Respiratory Infections In Children Less Than 5 Years Of Age In Urban Field Practice Area Of A Tertiary Care Medical Institution.
- Study of association of various maternal risk factors in congenital anomalies
- A study of ecological factors & health seeking behavior of patients of animal bite attending ARV OPD in a tertiary care hospital
- A cross sectional study of morbidity and nutritional assessment of Anganwadi children in tribal area of Thane district
- A Comparative Study Of Geriatric Problems Among Rural And Urban Communities
- A cross-sectional study on assessment of client's perception in terms of satisfaction and service utilization in an Urban Health Centre
- A Longitudinal study to determine the epidemiological factors affecting nutritional status of pregnant women in antenatal & postnatal period reporting at Urban Health Centre.
- An interventional study to determine the effectiveness of intensified pre-treatment counseling in enhancing patient compliance in RNTCP in an urban slum.
- A Study of Health & Nutrition Status of Children under 3yrs of age in context of utilization & effectiveness of ICDS services in urban area.
- A comparative study at utilization of Janani Suraksha Yojana and Matruada Anadan Yojana in urban & rural settings.
- An Epidemiological Study of Job Satisfaction amongst Class IV Employees in a Tertiary Care Hospital in Mumbai.
- To study the epidemiological profile of taxi drivers in the background of occupational environment, stress and personality characteristics.
- A study to evaluate prescribing indicators of prescription practice adopted by intern in urban health center.
- A study to assess biomedical waste management system in tertiary hospitals in a private and public hospital in Mumbai.
- An epidemiological study of street children utilizing services of shelter home in an urban area with special reference to their post de-addiction life.
- Perspectives of programme managers implementing targeted intervention projects in HIV/AIDS for female sex workers.
- Evaluation of impact and outcome of anti-malarial activities in a tertiary care hospital.
- A Study of Epidemiological determinants influencing health and health care amongst women domestic workers in the city of Mumbai.
- A Study of Epidemiological determinants influencing health and health care among the construction workers in the city of Mumbai
- The Study of Determinants of Alcohol Dependence and successful alcohol de-addiction in patients attending de-addiction clinic of a Tertiary Health Care Center
- A Study to assess determinants of obesity among adolescents in a municipal & private school of a Metropolitan City
- A cross sectional study of infant feeding practises followed by women attending Well Baby Clinic in an Urban health centre

- Longitudinal study to determine correlates of antenatal care activities with pregnancy outcomes amongst women registered in antenatal clinic in an Urban Health Center.
- To study epidemiological factors in gender based violence against women in reproductive age group coming to gender resource center located in metropolitan city
- Assessment of utilization of reproductive and child health services and client satisfaction regarding the same at PHC level.
- A longitudinal Study of epidemiological factors related to road traffic accidents and their impact on patients.
- To assess the effect of nutritional intervention on under nourished adolescent school going girls.
- A Study to assess the effectiveness of the training intervention on diagnostic, management & referral practices for Tuberculosis and their involvement in DOTS Programme in an Urban Slum Area.
- A study of utilization of health care services with special reference to maternal & child health in an urban slum community of a Metropolitan City.
- A study to evolve needbased interventions for strengthening ANC services in Urban Health Centre.
- Roles, responsibilities, scope & work facilitation from the perspective of ASHA workers working at a PHC
- An epidemiological study of street based FSWs with special reference to their lifestyle, health needs and sexual behavior in select suburban areas of Mumbai City.
- A longitudinal study to assess cost incurred by TB patients under DOTS treatment in an urban health center

#### *Faculty projects*

- Evaluation of the transition of HIV-T.I. NGOs to CBOs with reference to MSMs” a MDACS - NACO Assignment.
- Use of Mobile Technology ( M - Health ), for Health Data Management in RCH Programme – Rural.
- Establishing RHTC at Aarey colony - collaboration between dairy development board and PSM Dept G.S.M.C
- Developing Modular Training for B.Ed Teachers on rational use of medicines.
- Epidemiological study amongst women in reproductive age group related to Gynecological morbidities (cervical & breast cancer).

### **Transfusion medicine**

#### *Ongoing projects*

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

### **Nuclear medicine**

#### *Ongoing Projects*

- Indirect radionuclide scintigraphy as a screening tool for diagnosis of bladder dysfunction – multicentric study
- Myocardial viability on cardiac PET scan,
- Dilated Cardiomyopathy- ?Ischemic vs non-ischemic.

### **Urology**

#### *Completed*

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

#### *Ongoing*

- Role of Serum PSA in Screening of Carcinoma Prostate in Indian Population
- Efficacy of Medical expulsive therapy in renal calculi  $\leq 5$  mm.
- Prospective open study to document the demographic profile, investigations data & treatment outcome of patients presenting with BPH.

#### *In process*

- Metabolic evaluation of patients with renal stones

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

# Publications



# Publications

## Anatomy

- Bhuiyan, P.S, Rajgopal, L., Shyamkishore, K. – Prevalidated Multiple Choice Questions in Anatomy -2<sup>nd</sup> ed. Mumbai, Bhalani Medical Publishers; 2011
- Vaideeswar P, Yewatkar D, Nanavati R, Bhuiyan P – Ectopic Liver Tissue in Umbilical Cord- *Jr Postgrad Med*;2011;57:229-30.

## Anesthesia

### International

- Shah P, Subnis B, Varshney A, Pradhan C, Murthy TV, Shah D, Jaiswal V. “Clinical Efficacy of a novel new injectable diclofenac formulation designed for intradeltoid use in post-operative pain management”. *Int J Clin Pharmacol Ther*. 2011;49(4):286-90

## Biochemistry

- Mangoli V, Mangoli R, Dandekar S, Suri K, Desai S. Selection of viable spermatozoa from testicular biopsies: A comparative study between pentoxiphylline & hypoosmotic swelling test – *Fertil Steril*. 2011;95(2):631-4.
- Nutrition and biochemistry for nurses by Sreemathy Venkatraman and Sucheta Dandekar; Book published by Elsevier 2011

## Cardiology

- Lanjewar Charan, Santosh Shiradkar, P.G.Kerkar and Agrawal Ashish Stenting of Anomalous Left Main Coronary Artery Stenosis in an Adult with a Retroaortic Course. *Cardiol Res Pract*. 2011;2011:296946 .
- Phadke M S, Dr. Kerkar P.G. Complication of Percutaneous coronary interventions, *Text book of Interventional Cardiology in India*, Editor Dr.Nakul Sinha, Published by Elsevier.
- Bhalgat PS, Kerkar P.G: Aortic regurgitation following transcatheter closure of AP window: Case report accepted for publication in the *Journal of Invasive Cardiology*.
- Shrivallabh Karlekar, Kerkar PG: Epidemiology of Indian Dyslipidemia, *Textbook of Dyslipidemia* (Recommendations in management of Indian patients), Published by Elsevier
- Pradeep Vaideeswar, Rajib Gupta, Prashant Mishra, Charan Lanjewar, Abhijit Raut Atypical cardiac myxomas : a clinicopathologic analysis and their comparison to 64 typical myxomas, *Cardiovasc Pathol*. 2011 Aug 10.
- Phadke M S. Punjabi P. Sharma S et al Acute pancreatitis complicated by ST elevation myocardial infarctions --- accepted for publication in *the Journal of Emergency Medicine*.

## Chest Medicine

- Gita Nataraj, Swapna Kanade, Raunak Parikh, Vijay Khatri, Preeti Mehta, Amita Athavale and Bamne Arun Incremental yield in sputum smear positivity by examining a second early morning sputum specimen in follow-up patients on DOTS: 7 year analysis of RNTCP laboratory register. *Ind J Tuberc* 58: 60-5.
- “Dainik Prahar” – Asthma Education Article in Marathi

## Clinical Pharmacology

- Taur SR, Bavdekar SB, Thatte UM. Survey of ethics committee protocol approval letters: compliance with Schedule Y/ICMR guidelines 2006. *Ind Jr Med Ethics* 2011; VIII: 214-16.
- Gogtay NJ, Doshi BM, Kannan S & Thatte UM. A Study of Warning Letters issued to Clinical Investigators and Institutional Review Boards by the United States Food and Drug Administration. *Ind Jr Med Ethics* 2011; VIII 211-14
- Gogtay NJ, Bavdekar SB. Assessment of safety and tolerability of local application of DEBA cream in infants and children. *Int J Risk Saf Med*. 2011 Jan 1;23:1-3
- Bhatia S, Tullu MS, Kannan S, Gogtay NJ, Thatte UM & Lahiri KR. An unusual recurrence of anti-tubercular drug-induced hepatotoxicity in a child. *Jr Postgrad Med* 2011; 57: 147-52.
- K Holloway, E Mathai, Andy Gray, A Kotwani, C Wattal, S. Chandy, E Mathai, K. Thomas, M Mathai, J Mathews,

- I Joseph, U Thatte, R Kulkarni, G Koppikar, A Gous, E Pochee, A Gray, S Essack, A Sturm, Surveillance of community Antimicrobial Use in Resource - Constrained settings – Experience from five pilot projects. *Tropical Medicine and International Health* 2011; Vol 16, No.2, 152-161.
- K Holloway, E Mathai, Andy Gray, A Kotwani, C Wattal, S. Chandy, E Mathai, K. Thomas, M Mathai, J Mathews, I Joseph, U Thatte, R Kulkarni, G Koppikar, A Gous, E Pochee, A Gray, S Essack, A Sturm, Surveillance of community Antimicrobial Use in Resource - Constrained settings – Experience from five pilot projects. *Tropical Medicine and International Health* Vol 16 (3):368–374.
  - Taur S, Thatte UM. Leadership Initiative Perspectives in *Clinical Research* | 2011; Vol 2 Issue 3; pp 81.
  - Gogtay NJ, Thatte UM, Kulkarni PS. Data on normal healthy volunteers screened for a Phase I study and an analysis of how many actually get randomized. *Nat Med Jr Ind (in press)*.
  - Doshi M and Thatte UM. “Significance of Drug levels of Medications in Chronic Pain Management”, in “Symptom Oriented Pain Management”; Ed. Baheti D, Bakshi S, Gupta S and Gehdoo R, Jaypee Medical Publishers, New Delhi, India, 2011
  - Taur S, Thatte UM, “Introduction to Statistics” in “Book on Clinical Trials” Eds. AD Paul, Alice Kuruvilla. in Press
  - Parab S, Taur S, Thatte UM, “Clinical Data Management” in “Book on Clinical Trials” Eds. AD Paul, Alice Kuruvilla. In Press
  - Thatte UM. Ethical Issues in Clinical Trials, in A Textbook of Clinical Pharmacy Practice: Essential concepts and skills. Ed. G Parthasarathy; 2011

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# In the Limelight



# In the Limelight

## Cardiology

A demonstration of Transcatheter Closure of Ruptured sinus of Valsalva aneurysm was beamed live to an audience in an International Cardiology Conference in August this year. This received great appreciation from the fraternity and media alike.

## Chest medicine

**Pollution in city making kids ill**

The study revealed that 3.6% of the children had asthma while 6.18% complained of breathing problems.

Dr. Anika Athavale, head of the department of chest medicine and the Environment Pollution Research Centre of KEM Hospital, Parel, who conducted the survey, said, "There is an increase in the incidence of children suffering from respiratory ailments in the last few years. The survey was conducted to find out the prevalence of respiratory ailments in the city. The survey was conducted among 1,103 students from six private and civic schools in central and south central Mumbai. The students ranged from 11 to 17 years of age.

The study revealed that 3.6% of the children had asthma while 6.18% complained of breathing problems. Their peak expiratory flow rate - the maximum rate at which a person can exhale - was below 50% of acceptable values.

Dr. Anika Athavale who heads the chest medicine and EPRC department, KEM Hospital that conducted the survey attributed the problems to air pollution caused by factors such as vehicle and industrial pollution and dust coming from construction sites.

During the survey, doctors from the hospital advised students on asthma, its symptoms, factors that trigger it and the importance of prompt and adequate treatment.

**WHAT IS PEFPR?**

Peak expiratory flow rate (PEFPR) is a person's maximum speed of expiration, as measured with a peak flow meter by a compact device.

- The compact device measures a person's ability to exhale
- If a person is well, PEFPR readings are higher. They are lower when the air passage is constricted.
- Normal levels for an adult are 300.
- For a child, it depends on the child's height, weight and age.
- Doctors can determine significance of asthma and lung functionality on the basis of PEFPR values.
- Based on a child's height and weight, the BMC had set a PEFPR of 300 as the benchmark.

**INTERVENTION BY THE BMC**

- The intervention started with the first asthma awareness talk in February 2007.
- Schools are given pointers on asthma reduction for children, parents and teachers.
- The target audience is given information on diagnosis and management of asthma.
- 66 students diagnosed with asthma were advised to go to KEM Hospital for detailed lung function tests and advice on managing the illness.

**BREATHLESS IN MUMBAI**

The department of chest medicine and the Environment Pollution Research Centre of KEM Hospital, Parel, conducted a survey among 1,103 students from six private and civic schools in central and south central Mumbai to study the prevalence of respiratory ailments caused by pollution. The survey went on for two years.

**SOME OF THE FINDINGS**

**Nare Park School, Parel**  
NUMBER OF STUDENTS: 60 (studying in Class 6 and 9)  
AGE GROUP: 12 to 16  
PREVALENCE:  
3 students (5.0%) Diagnosed with asthma  
4 students (6.6%) Diagnosed with low peak expiratory flow rate (PEFPR)

**Prabhadevi Municipal School**  
NUMBER OF STUDENTS: 310 (studying in Class 6 and 9)  
Male: 161, female: 149  
AGE GROUP: 12 to 17  
PREVALENCE:  
8 students (2.6%) Diagnosed with asthma  
10 students (3.2%) Had low PEFPR

**SHS School, Sun**  
NUMBER OF STUDENTS: 608 (studying in Class 6 and 9)  
AGE GROUP: 12 to 17  
PREVALENCE:  
17 students (2.8%) Diagnosed with asthma  
41 students Had low PEFPR or were on some form of treatment but were never diagnosed with asthma  
8.78% students were in the grey zone likely to develop asthma soon

**Chashidan High School, Dadar (West)**  
NUMBER OF STUDENTS: 195 (studying in Class 6 and 9)  
AGE GROUP: 12 to 17  
PREVALENCE:  
None of the students had asthma  
2 students (1.0%) Had low PEFPR and were in the grey zone

**East Byculla BMC school (Marathi medium)**  
NUMBER OF STUDENTS: 78  
Male: 32, female: 46  
AGE GROUP: 12 to 17  
PREVALENCE:  
No student showed low PEFPR  
2 students On inhaled therapy and in the grey zone but none being diagnosed with asthma

**East Byculla BMC school (Hindi medium)**  
NUMBER OF STUDENTS: 66  
Male: 21, female: 45  
AGE GROUP: 11 to 16 years  
PREVALENCE:  
1 student had wheezing but normal PEFPR values  
2 students had wheezing enough, but normal PEFPR  
1 student had frequent colds but normal PEFPR

Hindustan Times 17<sup>th</sup> Feb 2011

**times metro | 03**

## State asked to curb pollution

**HT Correspondent**  
\* [timesmetro@timesgroup.com](mailto:timesmetro@timesgroup.com)

**MUMBAI:** The Parliamentary standing committee on environment, science and technology, during its visit to the city on Thursday, expressed concern over increasing pollution in Mumbai, asking the state and local administration to take steps to control it.

The delegation of 21 Members of Parliament, led by Dr T. Siddaramaiah, met chief minister Prithvi Raj Chavan and senior bureaucrats, including chief secretary Rajanwar Galwade, municipal commissioner, Rajesh Kumar, to review the condition of the environment in the state.

The delegation addressed issues such as pollution, new coastal regulatory zone norms and the sustained efforts needed to increase forest cover.

The delegation also cited the Hindustan Times report dated February 16 that air pollution was causing respiratory ailments among children.

The HT report was based on a two-year-long survey conducted by the civic body among LKG school students.

A press release issued by the state said that the delegation told government officials that "we must preserve the environment for the sake of our children".

The state is now preparing an action plan to control pollution levels. Former unionised

**Pollution in city making kids ill**

**City airport 2nd best in**

**HT report on Thursday**

ious measures planned by the Brihanmumbai Municipal Corporation, including increasing green zones, monitoring construction sites and decreasing the level of smoke from dumping grounds.

Officials from the Maharashtra Pollution Control Board admitted that there has been a steady increase in the respirable suspended particulate matter in Mumbai due to vehicular pollution and rampant construction.

"The state government has said that it will increase air monitoring stations in the city to keep a check on pollution levels," a senior government official said, repeating apologetically because he is not authorised to speak on the subject. "Officials told the delegation that the Mumbai metro and sewerage were expected to reduce the dependence on private vehicles."

Hindustan Times 17<sup>th</sup> Feb 2011

# 'More Kurla teens prone

## HEALTH STUDY Fewer cases of the disease found among students in central Mumbai schools

**Sonal Shukla**  
\* [sonal.shukla@hindustantimes.com](mailto:sonal.shukla@hindustantimes.com)

**MUMBAI:** Students in Kurla are most affected by asthma, revealed a six-month study conducted across 10 schools by KEM Hospital. The study was conducted to understand the prevalence of the disease among teenagers.

The Environmental Pollution Research Center (EPRC) at KEM Hospital conducted the study in which they interacted with LKG students (3 to 5 years) from 50 municipal and private schools in central and eastern Mumbai between September 2010 and February 2011.

"The prevalence of asthma was highest in children from schools in Kurla and lowest in schools from central Mumbai," said Dr Anita Athavale, head, KEM's chest medicine department and EPRC. The names of the schools have been withheld on request.

In one school in Kurla, 15.7% of the students surveyed suffered from asthma while at another, 14.2% students had the disease. The study found that fewer students in areas such as



**Hashim Khan who lives in Kurla was diagnosed with asthma last year.**  
RAJENDRA GUNDEKAR

suffered from asthma.

Dr Athavale attributed the high prevalence of asthma at Kurla to increasing air pollution caused by vehicular and industrial pollution and dust emanating from construction sites.

The study is in keeping with ongoing global research on the health impact of air pollution and the rise in allergic diseases. "Absence from school and loss of working days are indicators of disease severity and lead to increased disability-adjusted life years," the study states.

During the study, doctors also noticed a lack of awareness among children. "Parents should also be alert and not disregard complaints of breathlessness from their children," said Dr Athavale.

and loss of working days are indicators of disease severity and lead to increased disability-adjusted life years," the study states.

During the study, doctors also noticed a lack of awareness among children. "Parents should also be alert and not disregard complaints of breathlessness from their children," said Dr Athavale.

### RESULTS

**ASTHMA PREVALENCE IN 10 SCHOOLS**

**15.7% - 14.2%**  
Two schools in KURLA

**10.8% - 5.1%**  
Two schools in NAUGAON

**9% - 7.08%**  
Two schools in BHATKOPAR

**3.43% - 7.4%**  
Two schools in MULUND

**2.7%**  
School in BYCULLA (E)

### MITIGATION ACTIONS RECOMMENDED BY THE STUDY

**CURE**  
dentification / construction activity related to particulate pollution

### THE STUDY

School Prevalence of Asthma 2010-2011, surveyed 1,878 students in Class 3 and Class 4 from 10 schools. They were asked to fill a questionnaire and were put through breath tests to understand their lung capacity. The doctors also educated students about asthma, its symptoms, factors that trigger it and the importance of prompt and adequate treatment.

nessed with asthma last year. "We stay in a crowded area with narrow lanes and small houses. A building is being constructed nearby and there is a lot of smoke and dust," said five-year-old Subhanshu Khan, 10.

Another patient, Rishabh Galwade, 8, has been using an inhaler for her asthma for the past few months. The Class 4 student suffers from occasional bouts of cough and cold. "Our locality is in an industrial area and the traffic congestion creates a lot of smoke," said five-year-old, Swati Nerke, 10, who lives in a school near Salford Pool, Kurla.

"Asthma in children can get precipitated because of dust, smoke and air pollution. Kurla is dealing with problems such as heavy traffic, lack of proper ventilation, garbage burning, overcrowding and unhygienic conditions," said Dr Rupa Menon, who has been running a children's hospital at Kurla for the past 25 years.

Dr Menon's patients include Hashim Khan, 12, who was diagnosed with asthma last year.

Hindustan Times 30/5/2011

30/5/14

# Heavy metal in your air

## BREATHE OUT BMC records show rising levels of iron, lead, copper in city

**By Anil Jain**  
anil.jain@hindustan-times.com

**WHAT YOU ARE BREATHING IN**

ANNUAL AVERAGE	WORLD	INDIA	INDONESIA	INDONESIA	CHINA	INDONESIA	INDONESIA
Iron	1.0	1.2	1.2	1.2	1.2	1.2	1.2
Lead	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Copper	0.05	0.05	0.05	0.05	0.05	0.05	0.05

**HOW THEY DID IT**

The BMC has been monitoring the levels of heavy metals in the air since 2007. The data shows a steady increase in the levels of iron, lead, and copper in the air over the years. The BMC has been monitoring the levels of heavy metals in the air since 2007. The data shows a steady increase in the levels of iron, lead, and copper in the air over the years.

**'KURLA WORST HIT BY ASTHMA'**

A study conducted by the BMC has found that Kurla is the worst hit area in the city when it comes to asthma. The study found that the levels of heavy metals in the air are highest in Kurla, which is a residential area. The BMC has been monitoring the levels of heavy metals in the air since 2007. The data shows a steady increase in the levels of iron, lead, and copper in the air over the years.

Hindustan Times 30/5/2011

# Air is host to stealthy, minute pollutants

**By Anil Jain**

**F**irst, the good news. The level of sulphur dioxide and nitrogen oxide in the city's air has come way below the permissible limit. Thanks to government measures like the banning of old taxis and the implementation of international pollution norms for automobiles.

Now the bad news. The level of Respiratory Suspended Particulate Matter (RSPM) has gone beyond the stipulated limit in all the major areas like Kurla and Mahad, almost touching the limit in Bandra in a few days.

**FOUL BREEZE**

Location	RSPM (µg/m³)	SO <sub>2</sub> (µg/m³)	NO <sub>x</sub> (µg/m³)
Kurla	108.42	12	41
Mahad	118	30	73
Bandra	87.37	21.57	31.41

*"Respiratory Suspended Particulate Matter Period: April 2011. Source: BMC"*

Infection levels, especially around areas witnessing construction activity, are on the higher side. There is a high probability of people getting chest infection and allergies.

**Anita Athavale** | KEM HOSPITAL

The data for April 2011, was provided by the Maharashtra Pollution Control Board's air monitoring stations.

RSPM comprises fine, invisible particles that arise from construction activity, the movement of diesel vehicles and the burning of fireworks. Environmentalists say the burning of fireworks sends toxic metals like aluminium and cadmium into the atmosphere. "It is a known fact that every year after the festival season, the incidence of asthma and bronchitis increases. Also, the heavy metals contained in fireworks get washed by the rain into the soil," said Sumati Abdulali of Awaaz Foundation.

The pollutants can trigger asthma, pneumonia and heart-related ailments. The average RSPM level in Kurla was 108.42µg/m³ and in Mahad 118µg/m³. In Bandra, it was 87.37µg/m³.

Environmentalists and cardiologists say the increase in the incidence of asthma and pneumonia in recent years correlate with an increase in RSPM levels. "Infection levels, especially around areas witnessing construction activity, are on the higher side. There is a high probability of people getting chest infection and allergies," said Anita Athavale, head of KEM hospital's environment pollution research centre.

She said that diesel-based automobiles emit RSPM as do petrol vehicles using lower gears. "Any fuel which does not get fully combusted emits RSPM like carbon and lead. Vehicles in Mumbai move at a crawling speed, which leads to an increase in particulate matter."

Ailments like bronchitis are on the rise. On average, the lung capacity of a man decreases by 10ml per year after he crosses the age of 50. But due to air pollution, this capacity decreases by 100ml per year.

High levels of RSPM can also affect the health of children. "Like in adults, it may trigger asthma and even heart-related ailments," said Rohini Chowgule, founder of the Environmental Medical Research Centre at KEM hospital.

Times of India 01/6/2011



Hindustan Times 7th June 2011



Times of India 21 Nov 2011

Dear Dr. Smith,

From the day I have met you, there hasn't been a single day that I haven't been inspired by you. Whenever I had the opportunity to talk to you or to discuss with you, I'd feel so nice, just looking at your lively eyes and your cheerful smile they gave me a confirmation of a different kind of certainty, you know the one's that say, "You can get through this" or "It'll be all right" or "everything will be fine."

I deeply admire your passion, spirit and commitment towards your work. It is because of you that I had the opportunity to meet Dr. Ramesh Beshpale and recover this well. I will always cherish each and every moment that I spent, from the days of KEM to the days)

Letter of appreciation

spent recovering at Jaslok Hospital - It has been an incredible journey.

I want to thank you and your group of doctors especially - Dr. Sparna Dyer and Dr. Jayraj - for handling my case so well.

It has been a sheer pleasure meeting you. I wish all the very best and good luck for the future. Keep up the good work - ALWAYS and FOREVER !!!

Warm Regards,

Yours sincerely,

Ph No - 9819315396 Ashoomi Shetty  
(December - March)  
2010

PS- You are AWESOME and you totally ROCK !!!

Letter from pt – Ashoomi Shetty

## Neonatology:

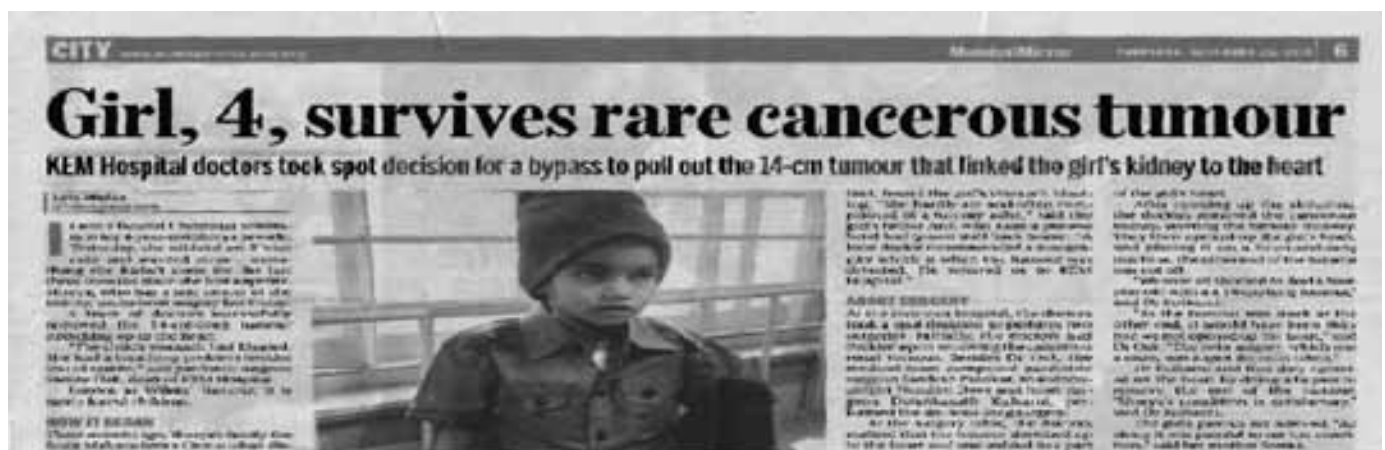
### Newspaper / Magazine report

- Maharashtra Times Tejaswini Award to Senior Staff Nurse Rekha Samant
- Article on Kangaroo Mother Care: A Hug Can Save Your Baby in Hindustan Times dated May 23, 2011

## Occupational therapy

Mrs. Jayashri S. Kale (Professor & Head): Interviewed by local channel of Goa State on the occasion of World Disability day on 3<sup>rd</sup> December'2011

## Pediatrics



## Pharmacology

1. "Shatabdi EC-CON 2011" activity, along with the faculty name appeared in different newspapers like Desh-Dhoot, Gaokari, Navakaal, Loksatta and Lokmat on 27<sup>th</sup> and 28<sup>th</sup> February 2011.
2. Dr Yashashri Shetty was felicitated by "Scroll of honour" by Om Shakti Mahila Vrunda, Kalyan, Dombivali and Bhiwandi Kannada Sangh on 1<sup>st</sup> February 2011 on their 5<sup>th</sup> annual day celebrations at Atre Hall, Kalyan for the contributions at



social front. It appeared in the newspaper Udayavani-Mumbai, Kannada local paper on 4<sup>th</sup> Feb 2011.

3. “Shatabdi EC-CON 2011” activity, Loksatta.



4. Dr. Sudatta Shirolkar was interviewed by DD Sahyadri Marathi news channel interview “Ayurvedia Camp” Chaityabhumi, on 6<sup>th</sup> December, which was telecast on 8<sup>th</sup> December 2011.



# Looking Ahead



# Looking Ahead

## **Anatomy**

- Mortuary Renovation – The departments' mortuary is going to be renovated with new hydraulic systems for easy transfer of bodies
- CCTV monitoring of lecture theatres, laboratories and departmental corridor (for security)
- Preparation of e-learning modules for microanatomy and gross anatomy for 1<sup>st</sup> MBBS students
- Electron Microscopy Facility
- Plastination Facility
- Genetics laboratory
- Air-conditioning of Dissection Hall, Microanatomy Laboratory, Anatomy Lecture Theatre with Laminar Airflow Systems

## **Anesthesia**

### *Patient care*

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

### *Education:*

- Difficult airway training centre.
- DM in Cardiac Anesthesia, Neuro Anesthesia, Pediatric Anesthesia.

## **Biochemistry**

### *Teaching*

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

### *Patient care*

- To be able to reduce turn-around time and to analyze all the parameters that are prescribed

### *Research*

- To collaborate with National and International Agencies and to diversify and upgrade the research activities.

## **Cardiology**

A portable echo-colour Doppler machine and another Cath lab are expected once the requisite procedure is completed. We are in the process of starting a Chest pain registry which would include all patients presenting to the EMS with acute chest pain. This will help us study and understand the etiology, demographic profile, and spectrum of manifestations of coronary artery disease, as well as the reasons for late presentation of acute MI patients. Fellowship program for post DM /DNB candidates in Pediatric Cardiology, adult interventional cardiology and electrophysiology is proposed.

## **Chest medicine**

### *Patient care:*

The department will be acquiring multi-parameter monitors for IRCU. This will further help us to care better. The development of a fully equipped interventional bronchology facility is in the pipeline as is VideoEEG for sleep studies. We have also put in a request to procure pleuroscope that will help us in diagnosis and management of pleural diseases. The incidence of atopic and allergic illness is on the rise, the need has been felt to develop a full-fledged laboratory where tests including skin prick tests and desensitization may be carried out to alleviate patients with refractory atopic conditions.

## **Clinical Pharmacology**

- Patient care- set up blood level estimation of immunosuppressants in renal transplantation- cyclosporine, tacrolimus, sirolimus and provide routine monitoring in collaboration with department of nephrology.

- Capacity building in Therapeutic Drug Monitoring with the use of LCMSMS and in the area of stem cell research.
- Set up Preferred research center for Health Economics and Outcomes Research in collaboration with Pfizer Ltd.

## CVTS

Expansion of the facilities has been proposed in the 2<sup>nd</sup> phase of the institution development plan. It will be expected to complete by 2014.

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

## Endocrinology

- Patient Care
  - o Establish Foot Care Clinic
  - o Diabetes services to be enhanced to curtail number of patients' visits.
  - o Diabetes prevention programme
  - o Establish clinic for "Disorders of sexual development"
  - o Neuro Endocrinology clinic
  - o Thyroid Sonography
  - o Establish patient support group
  - o Obesity Clinic
- Research
  - o Establish molecular endocrinology laboratory
  - o Establish regional referral centre for genetic diagnosis in endocrine disorders.
  - o Establish genotyping in patients with congenital adrenal hyperplasia
  - o Establish newborn screening programmes in congenital hypothyroidism and congenital adrenal hyperplasia
  - o Further research in pharmacogenetics in various endocrine disorders like Diabetes Mellitus Osteoporosis etc.
  - o Increasing number of national and international publications.
- Education
  - o Start a diabetes Educators programme for nursing staff/ Medical social worker
  - o Fellowships in
    - o Pediatric and Adolescent Endocrinology
    - o Reproductive Endocrinology

## Gastroenterology

Future plan of department categorized into:

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

## GI surgery

### Future plan of the department:

1. Expand Liver Transplant program.
2. To set up another ward to accommodate the patients and thus overcome overcrowding of the patients.
3. Conduct HPB and Laparoscopy Training courses

## Forensic Medicine

Application in November 2011 to the MUHS, Nashik for starting the postgraduate course in Forensic Medicine (MD)

## Medicine

Dr. A.R.Pazare Unit

1. CMEs planned in HIV, Malaria.
2. Future studies planned on outcomes research and cost of illness studies
3. Future studies planned to conduct a metaanalysis.

## MICU

Interactive session with ISCCM Mumbai

- Journal reviews/ topics reviews of critical care topics by fellow student doing critical care fellowship.

## Microbiology

*Projects to be undertaken*

- Comparative study of light microscopy, antigen detection and Light Emitting Diode Microscopy for diagnosis of malaria
- Utility of Light Emitting Diode Microscopy of Tuberculosis in HIV positive patients
- Carriage rate of resistant organisms in throat and colon of apparently healthy school going children
- Role of CD 64 expression in neonatal sepsis
- Characterization of Mycobacteria isolated from cases of extra pulmonary TB and drug susceptibility pattern of Mycobacterium tuberculosis
- Prevalence of Clostridium difficile associated diarrhea and its related risk factors
- ICMR grant application for Antimicrobial resistance – National multicentric study
- ICMR grant application for National Diarrheal Disease Surveillance- Multicentric Study
- DBT grant application for Indo-Australian Biotechnology Fund for the project entitled “Toward identification of missing links between nephritis-associated streptococcal strains and renal diseases – a burgeoning health problem in India and the Indigenous population of Australia.”

## Neonatology

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

## Neurosurgery

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

## Neurology

*Patient Care*

- Stroke Unit
- Dementia Clinic
- 2<sup>nd</sup> Phase epilepsy surgery – Invasive monitoring Intra operative electro-cortico graphy

## Nuclear medicine

*Patient care*

- Radionuclide therapy ward for therapy of cancer thyroid and neuroendocrine tumours
- Dedicated PET/CT for diagnosis of cancer and cardiology and neurology

## Nursing

- A. Arranging meetings with various Nursing staff for improving quality care.
- B. Arranging training programmes for all nursing staff.
- C. OT Technique short term certificate course for 3 months

D. Forwarding proposals to starts P. B. Bsc (Nursing) and MSC (Nursing) programmers

E. On giving workshops on 'Communication skills and Interpersonal Relationships'.

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, BSc. Nursing College proposal, Critical Care Nursing Course.

## **Occupational therapy**

### *Patient care*

The department has a vision of establishing a state of art department of Occupational Therapy reflecting the latest trends and technological care imparted by the professionals, improvised over the last 61 years. We also wish to set up a unique rehabilitation care center for the physically and mentally handicapped with facility of disability evaluation. We wish to incorporate an orthotic and prosthetic department at the Occupational Training School & Center of Seth G. S. Medical College and K. E. M Hospital.

### *Education*

We wish to develop E-learning programs for distant learning and education.

We are in the process of formulating the PhD program for Occupational Therapy. We also wish to start integrated Masters Program and Short Certificate Courses at the University Level.

### *Research*

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

### Campus and Infrastructure

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

## **Obstetrics & Gynecology**

### *Patient Care*

- Additional fetal monitors for better labour ward management
- Intensive care facilities in labor ward
- 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
- Endoscopic Surgery OT is planned to reduce the of laparotomies and in effect, reduce hospital stay and costs to patients and BMC
- Sub specialty OPDs and Services are planned as follows:
  - a. High Risk Pregnancy OPD
  - b. Gynaecologic Endocrinology OPD
  - c. Gynaecologic Oncology OPD
  - d. Infertility including ART OPD
  - e. Fetal Medicine and Genetic Counseling

## **Ophthalmology:**

- To buy three new operating microscope worth Rs. 60,00,000/-
- A new specular operating microscope

## **Orthopedics:**

- Computer Navigation assisted spinal surgery and arthroplasty
- Bone banking
- Spinal rehabilitation center
- Upgradation of equipments and facilities in operation theatres
- Upgradation of OPD for better patient care
- OT time to be increased with increase in no. of OT from three to four.

- Dedicated orthopedic trauma unit with 3 orthopedic table (2 clean and 1 septic table) in EMS
- To create more place in OPD to cater 300 patients per day
- Research Lab for stem cell, regeneration medicine, cartilage transplant, bone banking so as to work in direction of current technology development across the globe.
- Intensive care unit for Orthopedic supra major cases

## **Pathology**

### *Patient care*

- Up-gradation of lipid and Enzyme Biochemistry with automated systems
- Re-establishment nephelometric quantization of immunologic parameters and plasma proteins
- Initiate testing for beta 2 glycoprotein 1 antibody and establish panel of tests for lupus anticoagulants.
- Continue up-gradation of Surgical Pathology and Hematology with automated equipment and new techniques
- Continue up-gradation of hematology services with five part differential blood cell counters.
- Initiation of immunocytochemistry on FNAC slides and cell blocks

### *Education*

- Creation of a museum in CVTC laboratory 116 for display of mounted and wet specimens of hearts and lungs.

### *Campus and infrastructure*

- Modernization of museum underway.
- Procurement of photomicrographic microscopes
- Enhance postgraduate teaching with penta-head microscopes.

### *Patient care*

- Establish routine immunohistochemistry for tumor markers.
- Establish routine IHC for ER,PR of breast tumors
- Upgrade of lipid and Enzyme Biochemistry with automated systems
- Re-establish Nephelometer quantity of Immunology parameters and plasma proteins
- Expand range of lipid profile investigation
- Continue up gradation of Surgical Pathology and Hematology with automated equipment and new techniques
- Initiate fluorescent microscopy for autoantibody testing - Immunology laboratory.
- Continue upgradation of hematology services with additional automated analysers.
- Enhancing cytological techniques with cytocentrifugation, cell block preparation etc.
- Continue to enhance surgical pathology services with automated equipment.

### *Education*

- Creating a seminar room in the CVTC laboratory 116 to hold teaching sessions for residents in Cardiology, Cardiac Surgery and Chest Medicine.
- Creation of a museum in CVTC laboratory 116 for display of mounted and wet specimens of hearts and lungs.

### *Research*

- Initiate phase II of the Department of Biotechnology, Government of India funded collaborative research project with Department of Cardiac surgery – “Development of an experimental model employing vascular endothelial cells for its potential use in tissue engineered conduits.”

### *Campus and infrastructure*

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

## **Pediatric surgery**

### *Patient care*

- Modular OT set up to be established

## **Pediatrics**

### *Patient Care*

- Expansion of the Pediatric Wards bed strength from 90 to 120 teaching beds and increase teaching units from 3 to 4.

### *Education*

- Initiation of Fellowship Programs in Pediatric Neurology & Learning Disabilities.

### *Research*

- Establishment of Core Committee to monitor the on-going research projects in the Pediatric Department.

### *Campus & Infrastructure*

- Renovation and restructuring of Pediatric Research laboratory (PRL) with more emphasis on research in rare inborn errors of metabolism.
- Renovation & Refurbishment of Pediatric Intensive care unit

## **Pharmacology**

### *Patient Care*

- Upgradation of existing facilities for Ayurvedic therapy

### *Education*

- E- learning modules for undergraduate students
- Model prescriptions for common disease conditions for undergraduate students.
- MCQ booklet for undergraduate students
- Development of Centre for Pharmacodynamic studies to strengthen research and learning experiences to postgraduates

### *Research*

- Upgradation of existing research facilities ( in cardiovascular and neuropharmacology laboratories) in the Department of Pharmacology and Therapeutics

## **Physiology:**

### *Research:*

- We intend to develop an efficient Exercise laboratory
- To purchase a Body Composition Analyzer
- To upgrade existing equipments for the purpose of research.

## **Plastic Surgery**

### *Future plan of department*

Starting fellowship in Hand surgery

### *Patient Care*

Joint clinics to be started with

- Orthopaedics
- Vascular Malformation (Interventional radiologists)

### *Education*

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

### *Research*

- Plan to start a microsurgery laboratory



## Psychiatry

### *Patient Care*

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

### *Education*

- Introducing the OSCE format in training and examination of students

### *Research*

#### Ongoing Projects-

- Co-Investigator for methadone maintenance treatment project.
- Co investigator for Cultural Foundation Interview DSM –V Project.
- A Consultation Liaison Psychiatry
- A WHO project on efficacy of project to study the prevalence of psychiatric comorbidity in medical patient Dot plus-therapy in patients of multiple drug resistance tuberculosis?

#### Future Project:

- A study of coping mechanism caregiver burden and perceived social support in caregivers of geriatric patients
- Substitution therapy for Methadone maintenance therapy on Opioid dependence
- Support Group for children of alcoholics
- Support Group for Narcotics Anonymous
- Day care centre for long term of rehabilitation of Schizophrenia.
- Global fund – training of doctors & nurses in harm reach in inject able drug user.

## Transfusion Medicine

### Future plan of the department –

- Full automation in ELISA testing
- Computerization in Blood Bank
- To complete renovation in Blood Bank.
- To increase voluntary blood collection to 50,000 annually
- To get NABH Accreditation from quality council of India, New Delhi

## Urology

- Setting up of patient data archiving system (operative and clinical)
- As a centre for training in urology recognized for fellowship by SIU
- Publication of book on instrumentation

### *Cadaver Retrieval Workshop*

- “Urinary Diversion” Workshop
- Indo-US collaboration for organ transplant
- Projects: MUHS recognized courses for Urology OT Technician and Transplant Anesthesia



# Donations and Grants



# Donations and Grants

## Biochemistry

Biochemistry Bench-Top Analyzer worth ~ Rs 9 lakhs

## Cardiology

Mrs. Panaben Haridas Dossa donated Rs 3.05 lakhs for management of Heart Ailments.

## Chest medicine

### *Patient care*

- Mr. Iqbal Ahmed Qureshi donated a nebuliser to Department of Chest Medicine and EPRC in memory of his father Mohurram Ali.
- Smt. Jayashri Pramod Niphadkar donated 1 Deep Freeze (-15°C) to Department of Chest Medicine and EPRC.

## CVTS

M/s Pinnacle Biomed donated 3 computers for office work.

## Clinical Pharmacology

- Support from Glenmark Pharmaceuticals Ltd. for conducting under graduate course in clinical research.
- Grant in aid Pfizer Ltd. for conducting workshop on Outcomes research
- Funding from Indian council of Medical Research, Department of Biotechnology, Department of Science and Technology and various pharmaceutical companies for academic and sponsored studies.

## Endocrinology

Dr. P. P. Dedhia donated a new Centaur ADVIA CP for Immune Assay Test towards patient care.

## Medicine

- IPCA Laboratories donated Rs. 8000/- (rupees eight thousand only) for upgradation of Hypertension Services.

## MICU

1. Donations of books to MICU library:
  - o Infectious diseases in Critical Care Medicine – Second Edition (2008) – Burke.A Cunha
  - o Emerging issues and controversies in infectious disease – First edition (2010) - I.W. Fong
  - o Oxford Handbook of Critical Care – Third edition (2010) – Mervyn Singer
  - o Critical care Handbook of the Massachusetts General Hospital – Fifth edition (2010) – Luca M. Bigatello.
  - o Management of Infectious diseases – First edition (2010) – Manoj Jain, Dilip Mathai
  - o Handbook of Nutrition in Intensive Care Unit – First edition (2008) – Dr. Madhu choudhry
  - o Nutritional in Clinical Practice – Second edition (2010) – David L. Katz.
  - o British National Formulary – (September 2010)
  - o Cardiovascular Diabetology – Advances in Cardiology – Vol 45 – E. Z. Fisman
  - o Clinics in Liver disease – November 2010 - Vol 14 - No - 4 jay H. Lefkowitz.
  - o Landmark papers in Infectious disease – BMJ Journals.

## Microbiology

Grant from NACO for ICTC, EQAS and CD4 testing – Rs. 2, 27,000/ for patient care.

## Research

Grant from NACO for HIV Sentinel Surveillance – Rs. 1, 50,000/-

Grant from ICMR for Project – Rs. 13,16,030/- for 1<sup>st</sup> year only

B.D India for research project on BACTEC – Rs. 42,000/-

G.S.K for research project on invasive diseases in children – Rs 50,000/-

## Training Program

Grant from NACO for training of Laboratory Technicians – Rs. 30,000/-

## Strengthening Department

Grant from National Vector Borne Disease Control Program – Rs. 50,000/-

Grant from NACO – Rs. 2, 88,000/-

## Neonatology

### *Patient care*

- 5 Radiant Warmers & 2 Phototherapy Units donated by Lions Club International.
- LED Phototherapy donated by Bird Meditech Innovative Technologies.

## Neurology

Donations received for patient care from Ratan Tata Charitable Trust, Dorabji Tata Charitable Trust, L. S. Gala Charitable Trust, Nana Palkar Smruti Samiti Trust, Mahalaxmi Charitable Trust and others.

## Obstetrics & Gynaecology

### ICMR HRRC (from ICMR)

Rs. 9 lakh      HRRC Interim Grant

Rs.37, 500/-      Teenage Pregnancy Project

Rs. 1 lakh      Prevalence of Infertility Project

## Occupational therapy

**Training Program:** Danish Electronics, Jogeshwari donated Rs. 5000/- and partly sponsored International Occupational Therapy Day Celebrations held on 16<sup>th</sup> November 2011.

## Ophthalmology

Vitreotomy machine from Mr. Deepak Gaondalwala worth Rs. 6000/-

Indirect Ophthalmoscope from Universal Shops and Art Foundation worth Rs. 1, 00,000/-

## Orthopedics

- Received Cautery machine for EMS OT from Sahyog Trust (DJST)
- Sponsorships received from various companies towards participation in Workshops, Courses etc. routed through DDE.

## PPTCT Department (from MDACS)

Rs. 20,722/-      Annual Grant

## Pathology

### *Research*

- Dr P. K. Sen Research Society donated Rs 45,000 for Ph.D project “Effect of Bacopa Monniera extract on lipid peroxidation of cultured human endothelial cells. A cell culture approach”.
- M/s Biomeriux India Pvt. Ltd donated Rs 50,000 for “Comparative Evaluation of Malaria Rapid Diagnostic Test Kits”

### *Strengthening the department:*

Teaching Pathologists Conference group – Mumbai donated RS 5,000 for Department and faculty development and activities.

## Pediatric surgery

### *Patient care*

Open surgery instruments –

Plasma TV – 1

Fridge(ward) – 1

Biomedicon systems and Patient Aryavir Vora and Dr. Hemangini Shah and Dr. Ranbije.

### **Pediatrics**

Lioness Club of Breach Candy donated Rs 2 lakhs towards 5 infusion pumps to Department of Pediatrics (Co-ordinated by Dr. Mukesh Agrawal & Dr. Milind S. Tullu) [30.06.2011]

### **Pharmacology**

Funding received from Abbott Nutrition Research Division (Rs 6 lakhs), Marico Industries Ltd. (Rs 7.34 lakhs) and Charak Ltd. (Rs 1.30 lakhs ) for Clinical Trials.

### **Physiology**

Dr. J. B. Dharani donated Rs 4,000 towards Books for Departmental library.

### **P.S.M**

Rs. 15,000/- sanctioned from UNICEF for celebrating Breastfeeding week Programme

### **Psychiatry**

Donation of Rs.127, 400/- arranged to help patients for medications

### **Urology**

High Frequency C-Arm machine donated by Kishor Musale Trust, Mumbai





# Committees, Societies, Services and Publications



# Committees, Societies, Services and Publications

## Academic Committee

### January – December 2011

The Academic Committee of the institute meets under chairmanship of the head of the institute to discuss the issues arising in the local educational scenario and to take policy decisions for the transaction of the curriculum. From the mid of this year Dr. Shubhangi Parkar, Professor in Psychiatry was appointed as the Academic Dean and accepted the responsibility of Academic Committee activities. The members of this committee are from the different disciplines. The current composition of the Academic Committee is as follows:

**Chairpersons:** Dr. Sanjay Oak, Director (ME & MH) • Dr. Shubhangi Parkar, Academic Dean

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

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

In the year 2011, 7 meetings of the Academic Committee were held.

- During these meetings the members deliberated on various issues related to the academic programmes and the necessary actions were taken.
- Streamlining of issues related to MUHS examination, internship programme and clinical electives abroad was achieved through the deliberation.
- Disciplinary actions were recommended in some cases including absentism of students and interns.
- A memorandum of understanding between the Govardhan Seth Medical College (KEM Hospital) and the Tata Memorial Centre on the training of postgraduate medical students was approved by the committee which would strengthen the PG training programmes of both the institutes.
- Students' request for transcripts to attend clinical postings abroad was accepted and they were allowed to accept clinical electives abroad provided they complete the necessary terms as per rules in GSMC and KEMH.
- MUHS Guidelines regarding malpractice in practical examination were discussed and informed to all departments to be followed.
- Requests of parents and students to consider absence or to conduct examination out of turn were considered on case to case basis and with approval from the Grievance Committee.

- Assistance was extended to Grievance Committee whenever matters were referred to the Academic committee to facilitate decisions.
- Guidelines were formulated for selection of articles for publication in GOSUMAG and are being followed since this year.
- A suggestion was given that in the beginning of internship programme, the interns should be made aware of rules and regulations, with further reinforcement by the heads of the department during their posting. It was also decided that the each intern must read and sign the Rules and Regulations paper to make sure that they are aware of the same. Regular record keeping and taking signature at the end of individual posting is a must.
- Suggestions were given to the departmental heads regarding erratic attendance by the students during the posting to facilitate their decision making.

#### **A. Student's Grievance Committee:**

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

**Established:** April 2010

Student's Grievance Committee deals with the complaints of students. Dr. Amita Joshi coordinates these meetings. The current composition of the Student's Grievance Committee is as follows.

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

#### **B. Local Advisory Committee:**

**Established:** March, 2010

**The power and duties of the Local Advisory Committee is to-**

- prepare the budget and financial statement of the college or institution;
- recommend to the management the creation for the teaching and other posts;
- determine the programme of instruction and Internal evaluation and to discuss the progress of studies in the college;
- make recommendations to the management for the improvement of the standard of teaching in the college or Institution;
- formulate proposals of new expenditure not provided for in the college budget;
- advise the principal regarding the intake capacity of various classes, preparation of time-tables, distribution of the available teaching work-load and such other matters relating to the internal management of the college and discipline of the college students as may be referred to it by the principle, from time to time;
- consider and make recommendations on the inspection report, if any;
- consider and make recommendations on the report of the local inquiry committee; if any
- prepare the annual report on the work done by committee for the year ending, on the thirtieth June and submit the same to the management, the management Council of the University and to the Director;
- perform such other duties and exercise such other powers as may be entrusted by the management and the University.

The current composition of the Local Advisory Committee Members is as follows:

Sr. No.	Name of Local Advisory Committee	Occupation & Designation
1.	Dr Sanjay Oak	Director ( Medical Education and Major Hospitals)
2.	Dr. Narayan Bhosale	Dy. (Dean) (B)
3.	Mrs. Shubhangi Chavan	GHC
4.	Dr. Amita Athavale	Professor & Head, Chest Medicine
5.	Dr. RR Shinde	Professor & Head, Dept. of Preventive & Social Medicine
6.	Dr. Yuvaraj Bhosale	Associate professor, Dept. of Anatomy
7.	Mr More	Head Clerk (UG)

## **Animal Ethics Committee**

The Animal Ethics Committee was established in 1997. The committee was registered with CPCSEA in 1999. (Registration no: 60/1999/CPCSEA). The committee presently functions according to the guidelines laid down by the Committee for the

Purpose of Control and Supervision of Experiments on Animals (CPCSEA).

Two meetings were held in the year 2011; one each in the months of February and June. Details of projects submitted to the Institutional Animal Ethics Committee in the year 2011 are as follows:

Total projects received and approved- 6

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

Sr. No.	Name of Members	Position on AEC	Occupation & Designation	Gender
1.	Dr. NN Rege	Chairperson	Professor. & Head, Pharmacology & Therapeutics, Seth GSMC & KEMH.	F
2.	Dr. SK Kamat	Member-Secretary	Professor, Pharmacology & Therapeutics, Seth GSMC & KEMH.	F
3.	Dr. SV Jalgaonkar	Member Co-ordinator	Assistant Professor, Pharmacology & Therapeutics, Seth GSMC & KEMH.	F
4.	Dr. PR Chaudhari	Main Nominee, CPCSEA	Scientific officer, Comparative Oncology & Experimental Nuclear Medicine, AC-TREC, Tata Memorial Center.	M
5.	Dr. MM Gatne	Link Nominee, CPCSEA	Professor & Head, Pharmacology & Toxicology, Bombay Veterinary College.	F
6.	Dr. VK Shrivastava	Nominee, CPCSEA	Scientist outside the institute	M
7.	Mr. AV Shah	Nominee, CPCSEA	Non-Scientific Socially Aware Member	M
8.	Dr. SP Dandekar	Member	Professor & Head, Biochemistry, Seth GSMC & KEMH.	F
9.	Dr. AS Umap	Member	Sr. Veterinary Officer, Seth GSMC & KEMH.	M
10.	Dr. MJ Sathé	Member	Associate Professor, Microbiology, Seth GSMC & KEMH.	M
11.	Dr. SN Kirtikar	Member	Associate Professor, Physiology, Seth GSMC & KEMH.	F

## Committee for Academic Research Ethics (CARE)

Established: 14<sup>th</sup> November 2008

First version of SOPs: October 2008

Second version of SOPs: 1<sup>st</sup> December 2009

The committee presently functions according to the requirements laid down in Schedule Y (20<sup>th</sup> 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 Participants laid down by the Indian Council of Medical Research 2006. A total of **ten meetings were held in the year 2011**. A total of 167 Thesis & 71 Other Academic were submitted to the Committee for Academic Research Ethics for initial review during the year.

*Activities of the CARE in the year 2011*

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

Year 2011	Total reviewed projects	Under Process	Approved	Rejected
Thesis	167	52	115	-
Other Academic	71	26	45	-

Status of the ongoing academic projects as on 31<sup>st</sup> December 2011

14 out of 80 other academic projects submitted in the Year 2007 are ongoing.

105 out of 117 other academic projects submitted in the Year 2008 are ongoing

196 out of 209 thesis and 56 out of 95 other academic projects submitted in the Year 2009 are ongoing

160 out of 173 thesis and 93 out of 119 other academic projects submitted in the year 2010 are ongoing

Departments	Thesis	OA
Anatomy	-	1
Anesthesia	15	3
Biochemistry	4	2
Chest Medicine	5	3
CVTS	3	2
ENT	3	-
Pharmacology	2	9
Orthopedics	8	5
Medicine	9	7
Neurology	1	2
Nephrology	1	2
Neuro surgery	-	1
Ophthalmology	1	1
Occupational Therapy	13	-
Physiotherapy	18	1

Physiology	6	1
Transfusion Medicine	2	1
PSM	16	5
Pediatrics	16	-
Psychiatry	2	5
Radiology	4	-
Microbiology	8	1
Cardiology	-	3
Surgery	13	1
Urology	-	2
Gastroenterology	-	4
Nuclear Medicine	-	1
Endocrinology	2	-
Obstetrics and Gynecology	8	4
Clinical Pharmacology	-	4
Hematology	-	1
Dermatology	4	-
Social Science	1	-
Skin and VD	-	2

#### *Significant achievements and activities of the CARE in the year 2011*

1. Dr Y Shetty and Dr P Marathe were invited as faculty, Dr Yashashri Shetty and Dr Padmaja Marathe for the lecture on “History of Research Fraud and evolution of Ethics Hospital Ethics Committee” and “Role and responsibilities of EC” for the first training programme for members of Committees by Shatabdi Ethics Committee- “Shatabdi EC-CON 2011”.
2. Guest lecture on “Formation of Ethics committee Role and responsibilities of EC for C.L.A.I.M.S Pvt Ltd.
3. Shetty YC, Marathe PA, Billa GV, Nambiar N. Paper presented on “A Study Of Application Forms Submitted to the Ethics Committee” at 1st FERCI National conference on Research Ethics
4. Vikram Londhye has presented a paper titled” Awareness about Ethics Committee amongst Medical teachers in a medical college” at 1st National Conference of FERCI. He also attended a workshop on CTRI( Clinical Trial Registries of India) arranged by the Indian Council of Medical Research.

#### *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	Assistant Professor, (Pharmacology& Therapeutics) GSMC & KEMH	M.D., DBM.	F
3.	Dr. Anahita Chauhan	Member	Assoc. Professor, (Obstetrics & Gynaecology) GSMC & KEMH	M.D.	F
4.	Dr. Sona Dave	Member	Professor, (Anaesthesiology) GSMC & KEMH	M.D., DNB	F
5.	Dr. Praveen Iyer	Member	Associate Professor, (Anatomy) GSMC & KEMH	M.D.	M
6.	Dr. Padmaja Marathe	Member	Associate .Professor (Pharmacology& Therapeutics) GSMC & KEMH	M.D.	F
7.	Dr. Janhavi Kedare	Member	Associate Professor, (Psychiatry) GSMC & KEMH	M.D.	F
8.	Dr. Varsha Kulkarni	Member	Professor, (Surgery) GSMC & KEMH	M.S.	F
9.	Dr. Vikram Londhye	Member (External Scientific Expert)	Associate Professor (Medicine & Rheumatology clinic) TNMC & BYL Nair Charitable Hospital	M.D.	M
10.	Mrs. Manju Manda	Member (External Layperson)	Section officer, Railways	B.Sc Pharmacy	F
11.	Dr. Sadhana Mahashabde	Member, (External Legal Expert)	Advocate High Court	B.Sc., LLB, LLM, PhD.	F
12.	Dr. Ruchi Nanavati	Member	Professor and Head, (Neonatology) GSMC & KEMH	M.D.	F
13.	Mr. Elvis Thomas	Member (External social Expert)	Associate Professor (College of social work of Nirmala Niketan Institute)	M.S.W.	F

## Department Development Fund

The following activities are carried out by the trust:

### 1. Patient Care

The trust is patient care facilities in K. E. M. Hospital with up-to date and modern equipments & instruments and to attend to and take of the patients.

### 2. Education

Bio- chemistry: 7<sup>th</sup> Good Clinical Meeting.

### 3. Research

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

Sr. No	Department	Project Name	Sponsors Name
1	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
2	Clinical Pharmacology	"Clinical Pharmacology study of artemether in hepatitis C virus infected patients, after repeated oral administration during 7 days : a proof of concept study"	Kemin Pharma
3	Clinical pharmacology	"An open label, prospective, randomized clinical trial to assess safety and pharmacokinetics of recombinant anti-D immunoglobulin versus polyclonal anti-D immunoglobulin in health Rh negative study participants"	Bharat Serums & vaccines Pvt. Ltd
5.	Clinical Pharmacology	"Application of proteomics to aid biomarker discovery in smear positive patients of P.vivax and P.falciparum".	Indian institute of Technologies

### 8. Award and Honors

- Interest from a Fixed Deposit of Rs. 8480/- has been given as prizes as per the following list:  
the list of prizes is as follows:
  - Dr. Nina Dahejia Prize: Interns of G. S. Medical College
  - Dr. L. H. Hiranandani Prize: 3<sup>rd</sup> M.B.B.S Student (ENT)
  - Dr. Geeta Rao Memorial Prize: MS (Surgery)
  - Dr. V. H. Muzumdar: Final MBBS students (Ophthalmology), MD Obst & Gynecology.
  - Dr. G. S. Ambardekar: MD (Anesthesia) & Diploma in Anesthesia
  - Silver Jubilee: Occupational Therapy
  - Dr. V. G. Rao: PSM for 1<sup>st</sup> & 2<sup>nd</sup> highest the final MBBS Exam.
  - Pandurangi Award to Orthopedic –Best Resident.

Foundation day: Sanctioned for Miscellaneous expenses of Rs, 22,000/- through DDF General Fund.

### 9. Donation and Grants

Year Jan 2011 to December 2011

Sr. No	Name	Income Donation/Grants
1.	Patient Care	-----
2.	Research	7,23,066.00
3.	Training Programs/workshop	17,17,785.00
4.	Awards	8,480.00

### 10. Committees

Following work was done.

- Total 10 meetings taken throughout the year.
- Four projects are currently ongoing (please see page No- 1).
- Sanctioned for Rs.25,000/- through DDF General Fund for the part payment for Printing and Publication of the Annual Report of the institution for the year 2011.
- Provided internet connection to several Departments ( e. g. Dean , Dean Residence, PA to Dean, Student Section, Nurses Home, Superior Establishment) AE (M&E).

## 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 also been **recognized as SIRO**, by Department of Scientific and Industrial Research for years 2010 - 2013.

### *Composition*

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

**Secretary:** Dr. N.N. Rege, **Treasurer:** Dr. A.N.Supe, **Trustees:** Dr. Sujata Patwardhan, Dr. Nitin Karnik, Dr Vishnu Kanhere, **Advisors:** Dr. R.D. Bapat, Dr. M.L.Kothari

### *Activities of the trust*

Diamond Jubilee Society Trust was able to collect Rs.2,88,04,447 /- of donations in the year (January 2011- December 2011) inclusive of Foreign donations equivalent of Rs. 13,12,700/- and Govt. Research Grant of Rs.34,59,980 /-. These have been utilized for the following purposes:

### *Patient care*

#### **To strengthen the services offered by the institute to patients**

1. Donations worth Rs.18,73,454 /- were used to purchase essential equipments, accessories and consumables for various departments, laboratories and intensive care units of the institutes as per their requirements.
2. Patient education programmes of Patient Education Cell were supported.
3. EMS facilities are being supported through the collections of Sanyog Ganesh.
4. Donation was accepted from Narottam Sekhsaria Foundation of Rs.60,65,352/- towards purchase of instruments and equipments required to support liver transplant programme and for medicines of the patients.
5. Donation was accepted from Dr. Bibhuti Dasgupta of Rs.20,000 to be received quarterly towards patient care, medical research and facilities of Orthopaedic department.

### *Medical education*

1. Financial support of Rs. 2,40,000/- was provided for 13 research projects undertaken by the postgraduate students and junior faculty members
2. The students who have excelled in their academic career were awarded prizes and scholarships (n=26) by the trust. Funds for this purpose have been donated by past students and teachers of the institute in memory of their dear ones

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

- MUHS approved Fellowship/Certificate courses by various departments
- Undergraduate Certificate Course in Clinical Research conducted by the Department of Clinical Pharmacology under the aegis of MUHS
- 'PHARMATECH-2011' a National level workshop for the postgraduate students of Pharmacology organized by the Department of Pharmacology and Therapeutics
- 'Pharma Quiz' for the undergraduate students conducted by the Department of Pharmacology and Therapeutics
- 'Training Workshop on Emergency Medicine & Disaster Preparedness' for undergraduate students, interns and residents by Emergency Medical and Surgical Services
- 'Shidori', the co-curricular programme for the undergraduate students



- Cultural events organized by the undergraduate students like *Aavishkaar* in the month of January (intercollegiate skill event) and *Advait* (Marathi play competition in December)

*Donations were accepted for the following Faculty development programmes*

1. 7<sup>th</sup> 'GSMC FAIMER Regional Institute' by the ME Unit
2. 12<sup>th</sup> Certificate Courses in Medical Education Technology' Part –II by the Medical Education Unit
3. Orientation course for ME Unit Co-ordinators by the GSMC – KEMH- MCI Nodal Centre
4. Basic Courses in Medical Education Technology (n=4) conducted by the GSMC – KEMH- MCI Nodal Centre
5. 'Critical Care Training Programme' of the institute (n=3)
6. Lecture series in 'Research Methodology for the Clinicians & Resident Doctors' conducted by the Department of Neonatology
7. Workshops conducted by the individual Departments:
  - a. Live operative workshop 'RECON-UROL 2011' conducted by the Department of Urology
  - b. 'Microear surgery, Cochlear implant & Bone Anchored Hearing Aid Workshop' conducted by the Department of ENT
  - c. 20<sup>th</sup> 'Functional Endoscopic Sinus Surgery Workshop' by Departments of ENT and Anatomy
  - d. 'Teacher's Training Programme on Learning Disability' conducted by Learning Disability Clinic of the Department of Pediatrics
  - e. 7<sup>th</sup> International Surgical Workshop on 'Laryngotracheal Stenosis Surgery' to be conducted by the Department of ENT
  - f. 'Dermatoscopy CME' to be conducted by the Department of Dermatology (Skin)
8. Support for utilizing cadaver facilities of the department of Anatomy during
  - a. 'Pelviacetabular Cadaveric Course' conducted by the Department of Orthopaedics under the auspices of Bombay Orthopaedic Society
  - b. ENT Cadaver Demonstration Workshop
  - c. Workshop by Phonosurgery Workshop Trust
  - d. Orthopaedic workshop conducted by Bombay Orthopaedic Society
  - e. Bombay Cadaver Course of Bombay Hospital
  - f. Reconstructive Surgery Workshop' conducted by the Department of Plastic Surgery and Tata Memorial Centre

*Medical Research*

The Trust has received donations (Rs. 1,47,14,039/-) for research projects undertaken by various departments. In addition, it received funds from Government organizations towards research projects (Rs. 34,59,980/-).

*Publication*

1. Annual Report of Seth GS Medical College & KEM Hospital-2010 was published under the aegis of Diamond Jubilee Society Trust.
2. 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*

1. Donation was accepted from Dr. Tejal Patel of Rs. 51,000/- towards for patient care and medical Research.
2. Donation was accepted from Dr. Anthony Sequeria towards institution of Dr. ML Kothari best student award and Dr. Sanjay Oak best resident award (Rs. 1,00,000/- each).

*Work environment*

1. Donation of Rs. 1,00,000/- received as per the will of late Dr. Ms. naval M. Dharamsey, practitioner in Parel area towards facilities of medical students.
2. Support extended by DJST for
  - a. Website of the institute to propagate the activities of the institute and facilitate communication and interaction with other medical professionals
  - a. Annual maintenance of indoor patient monitoring software in Registration OPD and MRO section
  - b. Support for installation of kiosk to disseminate institutional information to visitors
  - c. Audio systems installation in the lecture theatres (Theatre 2 and 5)
  - d. LCD Projectors and computers facilities in lecture theatres (Theatres 2-5)
  - e. Provision of computers, printers and computer stationary for GS Medical College Office

- f. Support for activity of Breast Clinic, Department of surgery; assistance for import of equipment to the Department of Neurosurgery
- g. Financial support for appointment of personnel on specialized posts like web assistant
- h. Support for welfare activities of the institutional members
- i. Support for heritage activities of the institute
- j. Maintenance of front lawn and garden in the KEM campus.

## Ethics Committee for Research on Human Subjects (ECRHS)

### Seth GS Medical College and KEM Hospital

Established: 1986

Reformulated in 1999 with the chairperson from outside the institution

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

First version of SOPs: May 2000

Second version of SOPs: Nov 2005

SOPs dated: 14<sup>th</sup> November 2008

Third version of SOPs: 26<sup>th</sup> June 2009

The committee presently functions according to the requirements laid down in Schedule Y (20<sup>th</sup> 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 2011*

A total of twelve meetings were held in the year 2011. A total of 41 pharmaceutical sponsored projects and 8 government sponsored projects were submitted to the Ethics Committee for initial review during the year.

None of the Pharmaceutical projects were approved at first submission as there were scientific and ethical lacunae in the submitted protocols. The comments by the ECRHS members, pertaining to modifications in the protocol were sent to investigators. The answers to ECRHS comments were then reviewed and the project was granted approval. Till date 14 projects out of 46 projects have been approved, 3 projects have been archived and for the remaining 29, replies are awaited.

Year 2011		Pharma	Govt
I	Total no. of projects reviewed	41	8
II	Total ongoing projects	10	4
III	Type of study		
	Phase I	1	-
	Phase II	5	-
	Phase III	17	1
	Phase IV	7	1
	NA	11	6
IV	Departments	Pharma	Govt
1	Biochemistry	-	1
2	Cardiology	4	-
3	Chest Medicine	1	1
4	Clinical Pharmacology	8	-
5	Endocrinology	3	1
6	Gastroenterology	2	-
7	Immunohaematology	1	1
8	Medicine	5	-
9	Microbiology	-	1
10	Neurology	3	-
11	Neonatology	1	-
12	Nephrology	1	
13	Obstetrics and Gynaecology	2	2
14	Orthopaedics	2	-
15	Pathology	1	-
16	Pharmacology	2	-

	Year 2011	Pharma	Govt
17	Psychiatry	-	1
18	Surgical Gastroenterology	2	-
19	Urology	3	-
	<b>Serious Adverse Event Reports</b>	<b>Pharma</b>	<b>Govt</b>
1	Total no. of SAE at our site		
	Initial report	24	-
	Follow up report	22	
2	Total no. of death	1	-
3	Our site late reporting (after 7 <sup>th</sup> day)	-	-
4	Responses (query) from EC regarding SAE		
	Query letters	20	-
	Noted letters	32	-
5	SUSAR	10,902	-

*Status of the ongoing sponsored projects as on 10<sup>th</sup> December 2011*

1 project submitted in 1999 is ongoing.

1 project submitted in the Year 2001 is ongoing.

5 out of 59 projects submitted in the Year 2004 are ongoing

2 out of 52 projects submitted in the Year 2005 are ongoing

3 out of 64 projects submitted in the Year 2006 are ongoing

9 out of 69 projects submitted in the Year 2007 are ongoing

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

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

31 out of 51 projects submitted in the Year 2010 are ongoing

*Significant achievements and activities of the ECRHS in the year 2011*

1. Training programs organized by the ECRHS: First FERCI National Conference on Research Ethics: Challenges for Ethics Committees on 5<sup>th</sup> - 6<sup>th</sup> Nov, 2011 in India was organized by Tata Memorial Hospital, in Association with, K E M Hospital Mumbai.
2. Training programs attended by ECRHS members and staff for updating GCP training Participation of members :
  - a. Seven members of the the ECRHS Dr. Urmila Thatte, Dr. Sandeep Bavdekar, Dr. Sunil Kuyare, Dr. Padmaja Marathe, Dr. Yashashri Shetty, Dr. A. N. Supe, Mrs. Manisha Naik Dalal and two staff members of the ECRHS Mrs. Janhavi Katkar and Ms. Padmini Jadhav attended the first FERCI National Conference on Research Ethics: Challenges for Ethics Committees on 5<sup>th</sup> - 6<sup>th</sup> Nov, 2011
  - b. Two staff members of the ECRHS Mrs. Janhavi Katkar and Ms. Padmini Jadhav attended workshop on Statistics and Research Methodology on 27<sup>th</sup> - 28<sup>th</sup> Sep, 2011, Organized by Research Society Seth GSMC and K E M Hospital.
  - c. CITI Course in The Protection of Human Research Subjects: Dr. Bavdekar has completed an online training course in Ethics and is ongoing for Dr. Urmila Thatte, Dr. Padmaja Marathe, Dr. Sunil Kuyare and Mrs Janhavi Katkar

Assistance provided to other Ethics Committees: The ECRHS has assisted many other ethics committees for setting up and formation of SOPs within and outside Mumbai like Ethics committee of Seven Hills hospital Mumbai, Shatabdi Hospital Nashik, Asha Parekh Hospital of Santa Cruz, Mumbai, and Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow. Few members from these committees have undergone hands-on training as observers and got trained in the ECRHS office and during the ECRHS meetings.

*Constitution of the ECRHS from 1<sup>st</sup> January 2011*

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. Sunil Kuyare	Member Secretary	Assistant Professor, (Microbiology) GSMC & KEMH	M.D., DHA, FME.	M
3. Dr. Sandeep Bavdekar	Member (External Scientific Expert)	Professor and Head (Pediatrics), TN Medical College and BYL Nair Hospital.	M.D., D.C.H.	M
4. Dr. Kaizad Damania	Member (External Scientific Expert)	Professor, (Obstetrics & Gynaecology) N. Wadia Maternity Hospital	M. D., DNB., F.C.P.S., D.G.O., D.F.P.	M
5. Mrs. Manisha Naik Dalal	Member (External Layperson)	-	M. Com	F

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

#### ECRHS Office bearers

Name of Employee	Designation & Affiliation	Gender	Contact details
1. Mrs. Janhavi Katkar	Administrative Manager	F	Email: ethicscommittee@kem.edu / nayanvkatkar@gmail.com Intercom no.: 7515 Direct no. : 24122188 Mobile no. : 9820757259
2. Ms. Padmini Jadhav	Executive Assistant	F	
3. Mr. Kiran Baraskar	Office Attendant	M	

## Gosumec Alumni Association

The office bearers and managing committee members

Hon. President Dr. Sanjay Oak

Hon. Vice President Dr. Sharad Gogate

Hon. Secretaries Dr. Gita Nataraj, Dr. Ram Prabhoo

Hon. Jt. Secretary Dr. Dinesh B. Salgaonkar

Hon. Treasurer Dr. N.N. Rege,

Managing Committee: Dr. ML Kothari, Dr. Lopa Mehta, Dr. VN Acharya, Dr. PD Munagekar, Dr. HD Pai, Dr. VM Dedhia, Dr. J Shah, Dr. A Tilwe, Dr. S Puntambekar, Dr. M. Natrajan, Dr. M Kembhavi, Dr. M Sarkar, Dr. A Deshpande, Dr. RY Prabhu.

- The alumni has a membership of 4054. The period January 2011 to Dec 2011, saw an addition of 182 life members.

- The balance amount from GSMC 1984 batch donation was used for renovation of Library Audio Visual room, purchase of LCD projector and chairs. Inauguration of Library AV Room was done by Dr. Sanjay Oak, Director (ME& MH) and President of GAA on 8<sup>th</sup> October 2011.
- GSMC 1987 batch alumni had donated Rs. 501000/- in the last financial year. In addition to this, donation of Rs.310000/- and \$1750 was received in the current year.
- On Foundation Day, 21st January 2011, to get the GOSUMEC family together a contributory Annual Dinner was organized with musical programme in College lawns.

#### *Educational Activity*

- GAA sponsored UG/PG quiz 1<sup>st</sup> & 2<sup>nd</sup> Prize with certificate.  
UG -PG 1<sup>st</sup> cash prize of Rs.300/- & 2<sup>nd</sup> cash prize of Rs. 200/- with certificate was given to PSM & Anesthesiology departments. The names of the prize winners are Dr. Pankaj Gupta PG Quiz-PSM-1st prize, Miss Naincy Purwar-UG Quiz-PSM-1st prize, Miss Aayushi Mohan UG Quiz-PSM-2nd prize, Dr. Keyur Bhavsar & Dr. Kshiti -PG Quiz, Anesthesia-1st prize, Dr. Pradeep Dalvi & Dr. Roshith Chandran- PG Quiz, Anesthesia-2nd prize and Dr. Prateek Bobhate- PG Quiz-PSM-2nd prize
- GAA donated Rs 15,000.00 towards printing & publication of GOSUMAG 2010, the UG magazine
- GAA supported an awareness programme conducted by the Department of Microbiology on the occasion of World AIDS day on 7<sup>th</sup> Dec 2011.
- Awards & Honors: The Dr. R B Redkar Memorial awardees for the year who were felicitated on foundation day (21/1/11) included Dr. Parmeshwar Gound (Administrative Medical Officer), Smt. Shailaja Jadhav (Hospital Office Administrator) and Mr. Paresh N Nayak (College Office Administrator).
- Orations were organized in collaboration with other societies

## Hospital Infection Control Committee

The committee is chaired by Director (ME & MH,G & K) Dr Sanjay Oak, and has as its members Dr Gita Nataraj (Microbiology, Convenor), Dr A.K Gvalani (Professor and Head, Surgery), Dr Preeti Mehta (Prof and Head, Microbiology), Dr A R Pazare (Prof and Head, Medicine), Dr Ruchi Nanavati (Prof and Head, Neonatology), Prof, Orthopedics, Dr N.B Agarwal (Prof, CVTS), Dr Salve (Asst Dean), Dr Smita Diwate (Pathology), Dr Himangi Warke (OBGY), Matron, Assistant Matron, Sister tutors, Superintendent Pharmacy and other administrative staff as members. Six meetings were held during the year. A check is kept on infection rate of the hospital, biomedical waste management and sterilization techniques. A CME on 'Antimicrobial Resistance' was held on 7<sup>th</sup> April 2011 with the departments of Microbiology and PSM and another CME on 'Hand Hygiene' was held on 5<sup>th</sup> May, 2011. Brochures, posters and point of care awareness was conducted by the faculty of Department of Microbiology. Feedback on common nosocomial isolates were provided to the different surgical departments. In the coming year, the committee looks forward to improving compliance with hand hygiene, biomedical waste management and provide inputs as required in formulating the antibiotic policy and auditing infection control rates.

## Journal of Post-graduate Medicine (JPGM)

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

<b>Editor</b>	Sandeep B Bavdekar
<b>Associate Editors</b>	Dr Nithya Gogtay
	Dr Dattatreya Muzumdar
<b>Consulting Editors</b>	Dr Manjula Sarkar
	Dr Milind Tullu
	Dr Pradeep Vaideeswar

- **Contributors:** This year the journal received over 1100 manuscripts, which is the highest number of manuscripts received any time since its inception. The contributors were drawn from all over the world with over 40% of the manuscripts being contributed by authors based overseas.
- **Reviewers:** The journal's 4000-strong army of experts spread over all the continents helped in ensuring that only quality

articles are published in the Journal.

- **Impact Factor:** The JPGMs impact factor for the year 2010 stands at 1. 589. With this, the Journal has maintained its second position amongst all Indian medical journals.
- **Commitment to open access:** The JPGM is committed to ensure greater availability of information about clinical trials in the public domain. As an important step to fulfill this objective, JPGM has collaborated with other important Indian journals in drafting and signing a Statement that encourages scientists to register their trials.
- **Availability of digitized back issues:** During the last two years, the JPGM has uploaded full texts of its issues published in 1976-79 at its website. With this, JPGM's issues published since 1976 are available on the net.
- **Enhancement of author-friendly character:** Detailed instructions regarding manuscript preparation and submission have now been posted at the journal website. This has been done to enhance the 'author-friendly' character of the Journal. These instructions now clearly elucidate the nature of each section or article type published in the Journal.
- Many new features have been added on the Journal website, maintained by the publisher. Medknow Publications and Media Pvt. Ltd.:

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

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

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

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

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

- **Efficient handling of manuscripts**

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

**Table 3: Efficient handling of manuscripts**

Submission to First Decision	2004	2006	2008	2010	2011
Number of Articles Submitted	628	804	760	1102	1160
Days to Suggest Reviewers	6.83	15.75	29.86	13.24	5.36
Days Taken by Reviewers	28.48	19.42	16.05	16.71	14.80
Days taken by Editor for Decision	34.59	81.94	56.15	14.53	8.54
Days until Paper is Under Review	69.90	117.12	120.06	44.48	28.70
Revisions					
Days from First Decision Until Revision Arrives	25.33	28.94	22.49	16.72	<b>17.72</b>
Days for Editor To take Decision	4.85	12.62	2.3	4.72	<b>4.44</b>
Articles Re-Reviewed	110	89	63	85	<b>59</b>
Days for Re-Review by Reviewers	12.8	8.5	10.52	6.11	<b>6.48</b>
Days to send Revision Decision by Editors	4.85	12.62	2.3	4.72	<b>4.44</b>
Days from Revision Receipt to Revision Decision	22.5	33.74	15.62	15.55	15.36
Accepted Papers					
Days from First Submission to Acceptance	112.3	126.98	163.1	140.4	<b>119.64</b>
Days from Acceptance to Publication	163.9	204.95	101.49	94.32	90.56

- **Other measures:**

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

In a bid to avoid delay, JPGM now provides alerts and reminders to authors and reviewers by sending an SMS on mobiles.

JPGM is now has a firmer financial base and is able to contribute to the Staff Society's funds.

## Medical Education Unit

### *Activities of Medical Education Unit Jan 2010 – Jan 2011*

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

#### A. GSMC-KEMH MCI REGIONAL CENTRE

The fourth, fifth and sixth workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in February (22<sup>nd</sup> to 24<sup>th</sup> February 2011), April (6<sup>th</sup> to 8<sup>th</sup> April 2011) and September (27<sup>th</sup> to 29<sup>th</sup> September, 2011) respectively.

##### 1. Orientation Course in Medical Education Technology for Coordinators:

The orientation and basic course on 'Medical Education Technology' for the co-coordinators was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the month of January (3<sup>rd</sup> to 6<sup>th</sup> January 2011). The participants were from the Medical institutions from Maharashtra and Uttar Pradesh. A total of 9 participants attended the workshop. Of these, 9 were from Maharashtra and Uttar Pradesh. The designations are as follows: A. Professor & Head – 4, B. Professor – 1 and C. Associate Professors – 4. Three were from preclinical disciplines, 2 from paraclinical and 4 were from clinical disciplines.

##### 2. 4<sup>th</sup> MCI Basic Course:

The fourth workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the month of February (22<sup>nd</sup> to 24<sup>th</sup> February 2011). The participants were from the Medical institutions from Maharashtra. A total of 27 participants attended the workshop. Of these, 10 were from Maharashtra (other than GSMC). The remaining 17 were from the parent institute (Seth GS Medical College and KEM Hospital). The designations are as follows: A. Associate Professors – 6 and B. Assistant Professor – 21. Twelve were from preclinical disciplines, 5 from paraclinical and 10 were from clinical disciplines.

##### 3. 5<sup>th</sup> MCI Basic Course:

The fifth workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the month of April (6<sup>th</sup> to 8<sup>th</sup> April 2011). The participants were from the Medical institutions from Maharashtra. A total of 63 participants attended the workshop. Of these, 35 were from Maharashtra (other than GSMC). The remaining 28 were from the parent institute (Seth GS Medical College and KEM Hospital). The designations are as follows: A. Prof. & Head – 5, B. Professor – 7, C. Associate Professors – 24 and D. Assistant Professor – 27. Twenty nine were from preclinical disciplines, 14 from paraclinical and 20 were from clinical disciplines.

##### 4. 6<sup>th</sup> MCI Basic Course:

The sixth workshop on 'Medical Education Technology' was conducted by the GSMC- MCI Regional Centre as a part of Faculty development programme in the month of September (27<sup>th</sup> to 29<sup>th</sup> September 2011). The participants were from the Medical institutions from Maharashtra. A total of 33 participants attended the workshop. Of these, 22 were from Maharashtra (other than GSMC). The remaining 11 were from the parent institute (Seth GS Medical College and KEM Hospital). The designations are as follows: A. Professor – 7, B. Associate Professors – 12 and C. Assistant Professor – 13. Fourteen were from preclinical disciplines, 11 from paraclinical and 8 were from clinical disciplines.

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

#### B. GSMC FAIMER REGIONAL INSTITUTE

The seventh GSMC FAIMER Regional Institute programme was conducted at Seth G S Medical College & KEMH, Mumbai from 7<sup>th</sup> to 16<sup>th</sup> June 2011. A total of twenty participants from all over Maharashtra and outside Maharashtra participated in the programme. The FAIMER faculty namely Prof. Janet Grant inaugurated the programme. This year,

British Deputy High Commissioner Peter Buckingham from British Deputy Commission, Mumbai visited the institute during the course. The programme module consisted of different sessions on Group Dynamics (Mrunal, Avinash, Sucheta), Good teaching Practices Student Assessment (Payal, Avinash, Ashwini), ML Web discussion (Anshu, Chetna, Avinash), Change Management (Janet, Henal) conducted by national and international faculties of GSMC FAIMER Regional Institute. The newly introduced the sessions of Distance learning taken by Janet & Praveen, Innovations in Assessment taken by Avinash, Conflict Management taken by Vimal & Shubangi, Microteaching sessions by Nirmala, Pritha and Anshu and Qualitative Research taken by Janet & Nirmala. There was an interactive session of 2010 batch and 2011 batch along with the valedictory programme of 2009 batch.

#### C. Certificate Courses in Medical Education

Medical Education Unit conducted the Part II of the 12<sup>th</sup> Certificate Course in Medical Education Technology in the month of March 2011. 20 teachers from various Mumbai medical schools were trained in the 12<sup>th</sup> certificate course. The participants presented their completed project. Following ME Unit members Dr. Pritha Bhuiyan, Dr. Nirmala Rege, Dr. Avinash Supe, Dr. Shubhangi Parkar, Dr. Sucheta Dandekar, Dr. Preeti Mehta, and Dr. Yuvaraj Bhosale the faculty members for the workshop. Dr. Shyamkishore, Dr. Praveen Iyer, Dr. Ashwini Karve, Dr. Munira Barot, Dr. Ajita Nayak, Dr. Raakhi Tripathi and Dr. Tejal Patel were also conducted various sessions as faculty members.

## Mumbai Breast Feeding Promotion Committee

Mumbai Breastfeeding Promotion Committee is a collaborative group of Medical Colleges (Departments of Neonatology, Pediatrics, Obstetrics & Gynecology and PSM), Public Health Department of MCGM, various NGOs, & UNICEF working towards the promotion of Breastfeeding in the community. The activities involved are creating awareness by conducting trainings for health professionals, health education in the community by lectures, street plays, and slogans.

President: Dr. Ruchi Nanavati, Professor and Head, Department of Neonatology, KEM Hospital, Secretary: Dr. Shobha Kowli, Professor & HOD, Department of Preventive and Social Medicine, KJ Somaiya Hospital, Mumbai, Vice President: Dr. Sushama Malik, Professor, Department of Pediatrics, Nair Hospital, Mumbai.

The inaugural function of World Breastfeeding Week was organized on 3/8/2011 at K.J Somaiya Medical College, Mumbai. 400 health personnel attended the inaugural function. The MBPC members who have successfully completed International Board Certified Lactation Consultant examination were felicitated during the program which included 4 faculty members from KEM Hospital: Dr. Bhate, Dr. Armiety, Dr. Manisha Srivastav and Dr. Ruchi Nanavati. Various activities were conducted over a period of month to protect, support and encourage breastfeeding. The following personnel were trained:

Category	No. of trained
PG medical & Nursing students	948
Ayurvedic & Physiotherapy students	94
MSW, MBA, HRD personnel	263
Community awareness program	1669

Training of trainers program in Infant & Young Child Nutrition was conducted in November 2011 for Public Health department of MCGM. 27 trainers were trained. This is an ongoing activity to promote breastfeeding in Mumbai.

## ORACON- Congress of Orations

### A collaborative effort of all societies

#### *Dr. UK Sheth Oration*

by Dr. Bharat Dalvi Topic:- "Medical Research in India- A Clinician's Perspective. Possibilities and Limitations.

#### *Dr. Sindu R Pandit Memorial Oration*

by Dr. Gautam Sen Topic:- "Quality Assurance in Medical Education.

#### *Dr. MD Motashaw Memorial Oration*

by Dr Sundaram Hariharan Topic:- "Evolution of Kidney transplantation over 6 decades".

#### *Dr. T O Shah Memorial Oration*

by Dr. Anil D'cruz Topic:- "Current status Head & Neck Cancers".



*Dr. Manek P. Bhagat Oration*

by Dr. Suhas Prabhu Topic:- Antimicrobial Resistance- Meeting the Challenge.

*Dr. AC Duarte Monteiro Oration*

by Dr. R. D. Lele Topic: Molecular Biology provides a new interface between Ayurved & Modern medicine.

## Research Society

*The office bearers and executive committee member of Research Society 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. S. Ravat

### Research Grants

Following research projects selected for funding grants on the basis of merit.

Sr. No.	Department	Title of Project
<b>2010 - 2011 First Set</b>		
1	Dr. Sunil Karande Prof.Pediatrics	Evaluation of Pharmacokinetics of Anti-Malarial Drugs in Children
2	Dr. Priyanka Prasad AP Microbiology	Re-evaluation of Diagnostic titre of "H" & "O" agglutinins in the Widal test for the diagnosis of Typhoid fever in Mumbai
<b>2010 - 2011 Second Set</b>		
1	Dr. Swapna Kande AP Microbiology	Comparison of conventional phenotypic methods and rapid immunochromatographic test for differentiation of M. tuberculosis and nontuberculous mycobacteria.
2	Dr. Snehalata Gajbhiye AP Pharmacology & Therapeutics	Evaluation of effect of Mandurabhasma on structural and functional integrity of small intestine in comparison with ferrous sulphate using an experimental model of iron deficiency anemia.
3	Dr. Sanjeeta Umbarkar AP Anesthesiology	The effect of Single Induction Dose of Etomidate on Cortisol levels in Cardiac Surgery using Cardiopulmonary Bypass.
4	Dr. Sandhya Kamat Prof. Pharmacology & Therapeutics	Study of the immunomodulatory potential of India medicinal plants on the thymocytes of swiss albino mice
<b>2011 -2012 First Set</b>		
1	Dr. Tejal Patel AP Pharmacology & Therapeutics	Confirmation of the HPTLC results of steroidal adulteration in Ayurvedic drug sample biologically
2	Dr. Uma Shinde AP Biochemistry	Evaluation of important biochemical parameters of young hypertensives
3	Dr. Urmila Thatte Prof & HOD Clinical Pharmacology	Association of genetic polymorphisms of Cytochrome P450 2C19, ABCB1 and response to Clopidogrel.
4	Dr. Shobna Bhatia Prof & Head Gastroenterology	An association of Immunogenetic and autoimmune parameters with clinical manifestations in Inflammatory Bowel Disease (IBD) patients from Western India.

2 Research grant Enquiries Applications were received for the year 2011-12:

List of the ongoing projects & Research Society has received donations for these projects under taken by various departments are as follows:

Sr. No	Department	Title of Project	Sponsors Name
1	Cardiology Dr. P. G. Kerkar Prof. & Head	Seraphin study:	Actelion Pharmaceutical
		Predict Study	Sanofi -synthelabo India
		Protocol H7T-MC-TABY(B)	Quintiles Research (I) Pvt. Ltd
		Ivabradine Study	Clininvent Research Pvt.Ltd.
		TAO Study	Sanofi-synthelabo I Ltd
		CHF Study: Novartis trial	Novartis Healthcare Pvt, Ltd

2	Neurology Dr. S.H.Ravat Prof. & Head	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
		Johnson & Johnson study	Johnson & Johnson Ltd
		Biogen PRA Study	PRA International
		Reliance Clinical Trial	Rel Life Sciences P.Ltd
		Quintile Clinical trial -Epilepsy Study	Quintiles Research (I) Pvt. Ltd
		Bharat Serum	Bharat Serums and vaccines Ltd
		Epilepsy Makrocare	Makrocare Clinical Research Ltd

**Award:** Amount awarded for Dr. Sohrab A.E.Hakim Prize in Ophthalmology – a cash prize of Rs. 500/- given to Riddhi Shah, IIIrd MBBS Aug.2009 batch student.

*Workshops on Statistics and Research Methodology / Good Clinical practice.*

- Two days workshop on Statistics and Research Methodology on 17th - 18th August 2011 for 1st year Residents. Speakers: Dr. Vasumati, Dr. SB Bavdekar, Dr. Urmila Thatte and Dr. N.Gogtay.
- Two days workshop on Statistics and Research Methodology on 27th - 28th September 2011 for Full Time Teachers and residents. Speakers: Dr. Vasumati, Dr. Sunil Karande, Dr. Urmila Thatte, Dr. N.Gogtay & Dr. Sudeep Shah.
- One day workshop on Good Clinical Practice for full time staff members of KEM Hospital on 5<sup>th</sup> October 2011 in CVTS conducted by Dr. Saifuddin Kharawala

## Staff Society

*Office bearers*

President	Dr. Sanjay Oak
Vice President	Dr. Seema S Bansode
Hon. Secretary	Dr. Kishor Khushale
Hon.Jt.Secretary	Dr. Uma Shinde
Treasurer	Dr. Santosh Salagre
Editor JPGM	Dr. Sandeep Bavdekar

- Total Monthly Scientific Meetings: 5
- Award Paper Presentation Meetings: 2
- Guest lectures and felicitations- 2
- Executive Committee meetings- 8
- Annual General Body meeting on 29<sup>th</sup> July 2011.

*Best Paper Awards (staff)*

- Chhaya P. Mehta- Pediatrics. Missed immunizations: Opportunity may not knock again.”
- Shilpa Adarkar- Psychiatry Topic:- “Rave Party- Youth Profile.”

*Best paper awards (PG students)*

### Oral

- Dr. Harshveer Singh Malhi- Pharmacology (first) Topic: “Audit feedback: A useful method to change prescribing practices”
- Dr. M. Balakrishnan- Psychiatry (second) Topic: “A study of HIV associated dementia in the HIV clinic of general hospital”
- Dr. Abhishek Singh- Urology (third) Topic:- “A study of serum PSA in relation to Carcinoma Prostate in India population”

### Poster

- Dr. Kannan S.- Clinical Pharmacology (first) Topic: “Pharmacokinetics of single dose (15mg) of Primaquine in special populations and normal volunteers”
- Dr. Arun Kumar- Psychiatry (second) Topic: “Socio-demographic profile & drug-seeking situation in nicotine dependence” & Dr. Gawde SR (third) Topic: “Knowledge, attitude and practices towards
- Ayurvedic medicine use among modern medicine physicians: a survey at a tertiary care hospital”.

- Donations The Parel Chemist Gift shop Rs.10,000/- and Mr.Shetty – GSMC Canteen Rs. 10,000/- towards Foundation Day programme and Medknow Publications & Media Pvt. Ltd. Rs. 72446/-

## Telemedicine Center

The Maharashtra Telemedicine Project was initiated as a collaborative project of Indian Space Research Organization (ISRO), Govt. of Maharashtra (GoM) and Municipal Corporation of Greater Mumbai. The project is one of the major initiatives under the National Rural Health Mission (NRHM). The annual budget provided till November 2011 is Rs. 4,99,500/-. The KEM Hospital Telemedicine Center has been connected with Telemedicine Centers at Alibaug, Chandrapur, Karad, Kamathe, Nandurbar, Navapur, Ratnagiri, Sindhudurg, Sawantwadi, Satara, Shahapur and Thane through a satellite link & Broadband connection. The KEM Telemedicine Center is working as a Specialty Center and its doctors are providing expert advice (all specialties and super-specialties) to patients and doctors from these peripheral centers.

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

Chairperson: Dr. Sanjay Oak; Members- Dr Sandeep Bavdekar, Dr. Kamaxi Bhate and Dr. Milind Tullu. The day-to-day working of the Center is carried out by Mr. Sandeep Mehendale, the Facility Manager.

This year, a total of 1972 patients have derived benefit. The disciplines whose opinions have been sought include anesthesiology, ayurvedic medicine, cardiology, cardio-thoracic surgery, chest medicine, dermatology, dentistry, endocrinology, gastro-enterology, gastro-enterology surgery, general medicine, general surgery, gynecology and obstetrics, hematology, neonatology, neurology, neurosurgery, ophthalmology, orthopedics, otorhinolaryngology, pediatric surgery, pediatrics, plastic surgery and radiology.

Through this program, KEM Hospital and Municipal Corporation of Greater Mumbai are providing their contribution to promotion of health of Maharashtra's rural populace.

**Table : Center-wise & month-wise statistics of number of patients offered expert opinion through KEM Telemedicine Center**

No.	Center	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Total
1	Alibaug	-	-	7	10	5	19	38	34	36	29	41	219
2	Aundh	-	4	12	6	2	4	6	0	-	5	1	40
3	Bhandara	-	3	5	2	3	-	-	0	-	-	-	13
4	Chandrapur	-	-	-	-	-	5	1	0	1	2	3	12
5	Jalana	-	4	5	-	1	1	1	0	-	-	-	12
6	Jalgaon	-	-	-	-	-	-	1	1	1	-	5	8
7	Karad	-	-	10	2	-	1	-	0	23	29	29	94
8	Kalvan	-	-	-	-	-	30	-	0	32	45	25	132
9	Kamathe	-	-	-	-	-	-	-	0	7	7	23	37
10	Nandurbar	-	-	-	-	7	34	26	65	-	33	125	290
11	Mangaon	-	-	1	8	-	-	-	0	-	-	-	9
12	Navapur	-	-	-	-	-	-	-	0	-	-	3	3
13	Nashik	-	-	1	-	-	-	-	0	-	-	-	1
14	Osmanabad	-	-	-	-	-	-	1	0	-	1	6	8
15	Ratnagiri	-	-	23	34	47	31	33	74	103	51	53	449
16	Sindhudurg	-	-	11	17	16	5	1	0	2	4	30	86
17	Satara	-	-	-	-	-	-	-	0	4	21	20	45
18	Shahapur	-	-	-	-	-	-	-	0	-	5	33	38
19	Thane	-	1	19	14	48	34	44	70	94	32	55	411
20	Udgir	-	-	-	-	-	4	9	5	1	1	1	21
21	Washim	-	-	-	-	11	10	11	1	1	-	-	34
22	Wardha	-	-	-	-	4	-	-	-	-	-	-	4
23	Malegaon	-	-	-	-	-	-	-	-	-	-	1	1
24	Ahmednagar	-	-	-	-	-	-	-	-	1	-	1	2
25	Hingoli	-	-	-	-	-	-	-	-	-	1	-	1
26	Ambad	-	-	-	-	-	-	-	-	-	2	-	2
27	Total	-	12	94	93	144	178	172	250	306	268	455	1972

## Women's Development Committee

The WDC is established in this hospital since Nov 2006 and comprises of representatives from the various cadres of teaching, non-teaching, nursing, clerical, labour 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 Anjali Kharkar      | (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           |
| • Mr Makarand Pantoji     | (UG student)     | Member           |

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

It has conducted the following activities this year:

- **25<sup>th</sup> Jan;** Haldi Kumkum with a program on "Special recipes for sankrant" by Dr Shefali Batra.
- **February and March :** Salsa lessons with dance maestro Jyothi Sarkar
- **8<sup>th</sup> March (International Womens day):** A talk show with 4 prominent women in different fields. The speakers Chitra Datar, Rani Gunaji, Deepali Vichare and Prof Neeta Tatke.
- **9<sup>th</sup> March :** Workshop on Basic Photography by ace photographer Raju Shukla.
- **22<sup>nd</sup> June:** Symposium on Children and education .Speakers were Mrs Anuradha Gore, Social worker from NGO with screening of documentary film on child abuse.
- **7<sup>th</sup> September :** Screening of documentary film on female foeticide "Janani" with poetry competition on Stree Brhunahatya for all staff. There were 54 entries and 10 prizes were given.
- **13<sup>th</sup> October:** Bone density camp in collaboration with departments of dietetics and physiotherapy
- **27<sup>th</sup> December :** Symposium on "Salla Soundaryacha" Speakers Minal Potnis (Facial Yoga), Mr Damodar (Makeup) and Dr Siddhi Chikhalkar (Advances in Cosmetology).

## Working Committee for the Prevention of Sexual Harassment at Workplace

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

# Support Services



# Support Services

## Dietetics

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

### *Mrs. Manasi. Bapat (Department of Nephrology)*

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

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

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

### *Other activities*

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

## Dispensary

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

### *Staff Working at Dispensary*

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

## Engineering (Mechanical and Electrical)

The work of electrification and rewiring has been carried out in LIC ward, ward no.31 (C.V.T.S Building) Microbiology department, ward no. 42 & R.O.C.O.T (M.S Building), ward no. 28 (O.C Building), dept of surgical pathology, dept of forensic Medicine and Library (Library Building ).

Old D.G Seth of C.V.T.S Bldg is replaced by new 200KVA D.G. Seth and new D.G. Seth at M.S. Bldg is replaced by new 250 KVA D.G. Seth.

The work of replacement of central A.C plants of C.V.T.S building and Library Building has been completed.

The work of replacement of Old AHUs of C.V.T.S.O.T and Urology Dept Seminar Hall has been completed.

The work of replacement of Old AHUs of I.R.C.U ward and National Institute of Immune Hematology is in progress and will be completed soon.

The work of replacement of Mortuary Cabinets of 09 Nos body and 27 Nos body Mortuary is in progress and will be completed soon.

The work of replacement of Voltas A.C plant by New M/s Blue Star Plant which provides A.C supply to old building and new building is in progress. Out of 03 units, 02 units have been commissioned. Installation of 3<sup>rd</sup> unit is in progress.

A new X-Ray scanning machine for scanning of visitor's bags has been installed at gate no.2 of K.E.M Hospital campus.

The work of replacement of electric Control Panel in various building of hospital is in progress which reduces the cost of monthly electricity charges.

## Furniture and linen

This department includes 1 head clerk, 2 clerks, and 2 Hamaals. Linen and surgical materials are purchased and issued by the department. Aprons of doctors, technical staff, ward boys clothes, ayah bai clothes are also issued. Bed sheets, mattresses, and patients' linen are issued. Material is purchased from scheduled contractors that are fixed by the Furniture and Linen Committee. The process is one of tendering. Ledger books are maintained and records of issue, posting, balance and billing is done on a regular basis.

## Laundry

This department has one Head Clerk, 1 clerk, 3 laundry assistants and 7 labor staff. Soiled linen from various wards and theaters are collected and given to the Municipal Power Laundry [MPL] and private dhobis for washing and ironing. The linen is then collected and distributed to various wards and theaters. Record keeping and billing is done on a daily basis.

## Library

### *Highlights & Achievements:*

1. Seth G.S.Medical College, Library completed work of Barcoding of bound Volumes in the library.
2. Purchased new, 'Library Security System with tattle tapes' at ground floor Library.
3. Subscribed 158 journals, and purchased 127 books. The online access to 210 journals was made available to all on Intranet.
4. The membership of National Medical Library's ERMED Consortia was continued for 2011.
5. We have purchased 93 E-Books and access is available through Intranet.
6. We had continued to subscribe 6 databases and alongwith Proquest Database we have included Dessertations. Online access to all Databases is available on Intranet.
7. We have purchased new Medical Database,'Up to date from 2011. The link is given on Intranet.

### *Holdings*

- Library journals' holdings are available on the KEM
- Website on Internet.
- Updated Library books' list is available on Webslim on
- Intranet. Links are given to all online resources of the Library on Intranet.

### *Donation and Grants*

1. Seth G.S.Medical College 1984 Batch students have renovated the audio-visual room. They have donated 45 chairs, one LCD Projector, one Podium for audio-visual room.
2. National Medical Library has given free online access to Medical journals through ERMED Consortia on Intranet on IP address & username password.



### *Looking Ahead*

**Education :** We are planning to subscribe more databases such as Ovid MD, Micro medics, and more e-books, so that Doctors will get relevant latest information immediately on Intranet. It is proposed to purchase an aggregator to access Medical information on one click.

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

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

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

Library Statistics	2012
Short Issue	207
P.G. Daily Issue	3691
Home Issue	118
U.G. Daily Issue	7451
Internet online access	3466
Xeroxing	27435
Inter Library Loan	38

### **Medical Record Office**

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

### **Medical Stores**

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

### **Pharmacy**

#### *Principal activities*

- The department performs steam sterilization and ETO gas sterilization of materials received from the wards and operation theaters.
- 5 units work round the clock.
- Prepares EDTA, fluoride, phenol bulbs and empty bulbs required for collection of blood and urine samples.
- Supplies sterile distilled water and distilled water to wards and labs.
- Orientation given about functioning of CSSD, pharmacy, stores, dispensing units, preparation of mixtures, ointments, lotions and distillation unit to students of diploma and degree courses from Pharmacy colleges as also students of hospital administration.
- Glycerine Acriflavine, glycerine magsulf, Mist KCl, Cough expectorant, liniment and Eusol solution for indoor patients are prepared and dispensed.

### **Poor Box Charity Fund (PBCF)**

Donations were collected in PBCF from various donors and from sources such as Prime Minister's National Relief Fund, Chief Minister's Relief Fund, Siddhivinayak Trust and Mahalaxmi Trust. The money is used for poor and deserving patients. This year a total of Rs 2.3 crores were disbursed to benefit 20,440 patients. Approximately 3.43 crores were donated by Jeevandayee Yogana and 664 patients benefited.



# Glimpses of History



# Glimpses of History

## **Parel: From History to Hospitals**

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

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

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

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

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

### *Hospitals & Medical Colleges*

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



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

be properly qualified independent Indian gentlemen not in government service.

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

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

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

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

#### *Medical Research*

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

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

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

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

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

**Vinita Salvi**

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

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

#### *Food for Thought*

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

#### *Washing Dirty Linen*

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

#### *Sweeping Times*

Keeping the place clean sends a shiver down the spine of even the most efficient administrator. KEM hospital generates 1300

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

### *Let Your Light Shine*

The surgeon concentrates on the field of surgery, scalpel in hand, ready to make his next move. Suddenly, he is instantaneously blinded as the bank of theatre lights overhead shut off in response to a massive power failure all over Mumbai. But, before he can ponder his next step, the lights come on again.- The emergency generators automatically take over and the theatre is flooded with light once more. The hospital receives its power supply through 15 main electrical cables with as many as 60 meters. The power supply to the various areas is then segregated into those that serve critical areas such as operation theatres and intensive care units as compared to the other areas. The cables to the essential areas are connected to an automatic mains failure panel, which is set to recognize any interruption in the power supply lasting 3 seconds. The diesel-fired generators are automatically triggered and generate sufficient power to supply all the critical areas of the hospital, within the; next 15 seconds.

The responsibility of ensuring that all systems are kept going and machinery functioning properly lies in the hands of the Electrical Department. This department must also attend to the maintenance of the central suction pipes, which are essential in any hospital, and the supply of compressed air and medical gases such as oxygen and anesthetic gases. Currently, besides their usual job of ensuring an uninterrupted water and electrical supply and making certain that all things electrical are humming smoothly, the department staff are immersed in attending to the high-tech ultra-modern "Emergency medical services" that has just been commissioned. It effectively means that they are trying to be in a dozen different places-attending to a hundred different tasks all at the same time. Mr Choukkar, the Assistant Electrical Engineer earnestly explains the electrical maintenance work as he simultaneously juggles with a telephone instrument needing repairs.

All vital areas of the hospital, such as operation theatres and intensive care units, have to be centrally air-conditioned. The animal house too requires this facility. A total of 47 Air Handling Units (AHUs) ensure that these areas, and those within, remain cool. Additional package air-conditioning units have been installed in certain operation theatres and laboratories while 140 window units also service smaller areas. On the other hand, the Transfusion Medicine, and the two mortuaries require an even lower temperature and thus need separate refrigeration units. In effect, vast quantities of energy are expended to ensure an optimum temperature in the requisite areas.

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

### *The Water of Life*

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

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

**Vinita Salvi**



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## Notes

Notes



*The year that was...*



Visit by Shri Uttam Kamble



Salman Khan with children  
having congenital ear anomalies



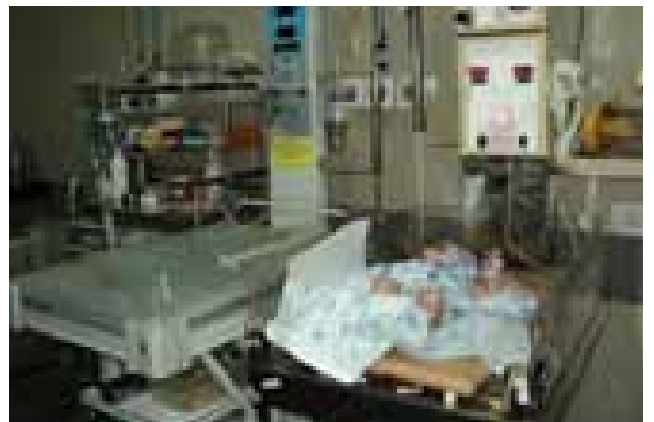
Renovated UG Section of Library



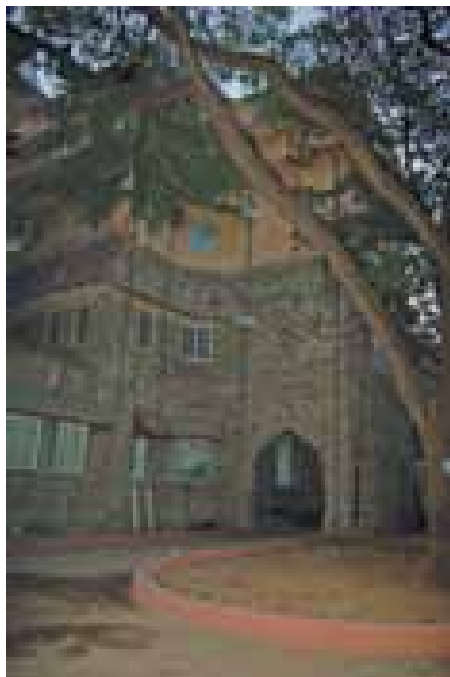
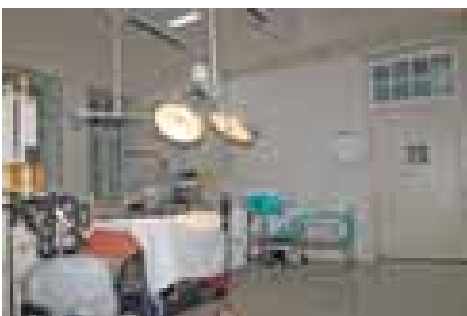
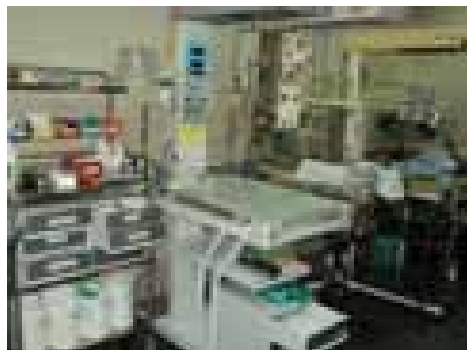
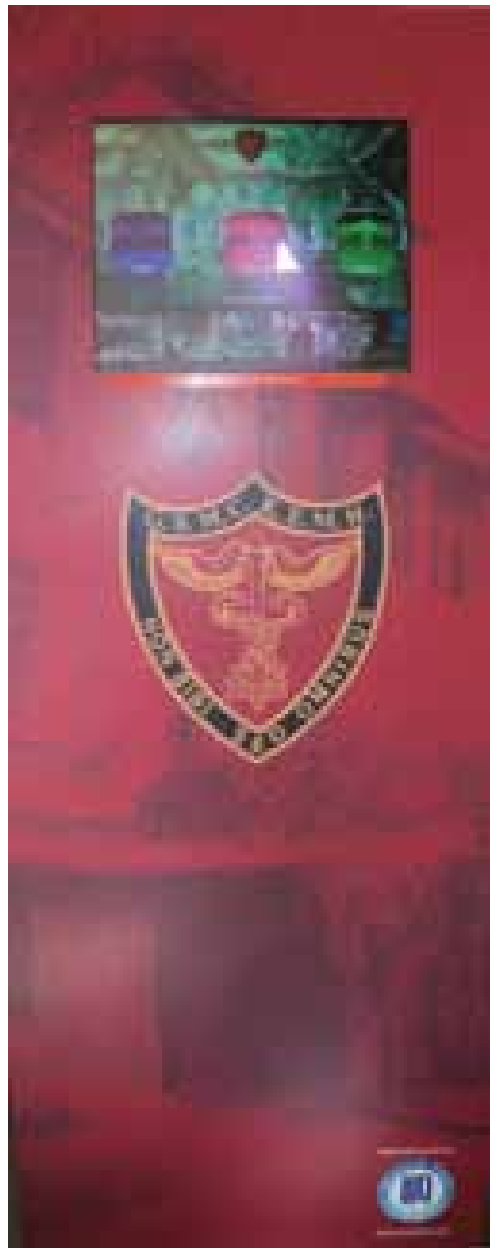
Visit by Medical Clowns from Israel



Renovated Pediatric Surgery Ward



Renovated CVTC ICU



A New Look