



# The Gujarat Cancer & Research Institute

*(M.P.Shah Cancer Hospital)*

**REGIONAL CANCER CENTER**

*(Recognized by Ministry of Health & Family Welfare, Govt. of India)*



**Research  
Early Detection  
Surgical treatment  
Awareness & Prevention  
Training & Education  
Chemotherapy, Radiation therapy  
Palliative care**



Annual Report 2013-2014

**Shri Pankaj R. Patel**  
**Chairman, Governing Board, GCRI**

**Members of Governing Board**

**Nominated by  
Govt. of Gujarat**

**Shri Rajesh Kishore, IAS**  
Principal Secretary, Health & Family  
Welfare Department,  
Government of Gujarat  
(Up to June, 2014)

**Shri Anil Mukim, IAS**  
Principal Secretary, Health & Family  
Welfare Department,  
Government of Gujarat  
(July, 2014 Onwards)

**Shri P.K. Taneja, IAS**  
Commissioner of Health Services,  
Government of Gujarat  
(Up to June, 2014)

**Shri J.P. Gupta, IAS**  
Commissioner of Health Services,  
Government of Gujarat  
(July, 2014 Onwards)

**Shri L. Chuaungo, IAS**  
Secretary, Finance Department  
(Expenditure), Government of Gujarat  
(Up to June, 2014)

**Shri Sanjeev Kumar, IAS**  
Secretary, Finance Department  
(Expenditure), Government of Gujarat  
(July, 2014 Onwards)

**Chairman, Managing Director**  
GMDC

**Dr. Bharat Amin, MS**  
Nominated by Government of Gujarat

**Nominated by  
Gujarat Cancer Society**

**Shri Prashant Kinarivala**  
General Secretary,  
Gujarat Cancer Society

**Shri Kshitish Madanmohan**  
Secretary, Gujarat Cancer Society

**Dr. N.L. Patel**  
Vice President, Gujarat Cancer Society

**Shri Deepak Navnitlal**  
Vice-President, Gujarat Cancer Society

**Nominated by Govt. of India**

Deputy Director General, Ministry of  
Health & Family Welfare,  
Government of India

Director (IF), Ministry of Health,  
Government of India

**Hospital Administration Team**

**Dr. Shilin Shukla**  
Director  
(upto 30 September, 2013)

**Dr. Kiran Kothari**  
Deputy Director

**Dr. Rakesh Vyas**  
Incharge Director  
(01 October, 2013 onward)

**Dr. Geeta Joshi**  
Deputy Director

**Shri Narendrasinh Chavda**  
Hospital Administrator

'JOINT VENTURE OF GOVERNMENT OF GUJARAT AND  
THE GUJARAT CANCER SOCIETY'

## **GUJARAT CANCER & RESEARCH INSTITUTE**

(M. P. SHAH CANCER HOSPITAL)



### **REGIONAL CANCER CENTRE**

(Recognised by Ministry of  
Health & Family Welfare, Government of India)

MEMBER OF UICC



International Union Against Cancer  
(UICC)

### **ANNUAL REPORT 2013-2014**

Civil Hospital Campus, Asarwa, Ahmedabad 380 016, Gujarat, INDIA  
Tel: 079-22688000 (Hunting); Fax: 079-22685490  
Website: [www.cancerindia.org](http://www.cancerindia.org); E-Mail: [gcriad1@bsnl.in](mailto:gcriad1@bsnl.in)

# Our Mission

The mission of the GCRI is to provide state-of-the-art diagnostic and therapeutic services to the patients of all types of origin and financial background suffering from cancer. Its scope also encompasses registering the tumor

burden in the population, prevention through awareness drives, solving local medical problems through research and training of medical students as well as imparting knowledge to the medical fraternity.

## To Fulfil The Mission, GCRI

- Conducts OPD and indoor activities for diagnosis, staging, treatment and monitoring disease progress.
- Renders free or subsidized treatment to needy patients without any distinction of caste, creed or religion.
- Provides training to new generation of doctors as well as practicing fraternity.
- Offers unique experimental and research-oriented diagnosis and treatment services to test new forms of diagnosis and therapy in order to improve quality of life and expected survival of those afflicted with cancer.
- Organizes public education programmes, the diagnostic and blood donation camps, conferences and other scientific meets.
- Displays a permanent Cancer Awareness and Anti-tobacco exhibition and arranges other preventive efforts.
- Runs instruction based Hospice Centre, Home-Hospice Services and Rehabilitation Service.

## Our Vision

GCRI, with a multi-disciplinary close relationship between cancer care, research and education, intends to provide the greatest hope to the patients and the general population whose needs, we endeavour to cater to. It strives to see that fruits of modern science reach up to the last man. GCRI believes that the world class cancer research, state of art therapeutic efforts and intensive and

extensive educational efforts regarding prevention, detection, treatment and palliation in the field of cancer will improve the quality of life of all those who suffer from it. GCRI collaboration believes that with other cancer organisations, research laboratories and pharma-research establishments will bring a better tomorrow.

## Our Core Values

### GCRI is dedicated to

- Scientific attitude and humane approach to diagnosis and treatment of cancer.
- Inquisitiveness, innovation and creativity in the field of research and its translation into day-to-day clinical applications.
- Value oriented as well as information and skill-intensive educational programmes.
- Respect to all schools of thoughts and endeavours for free exchange of ideas with due acknowledgements of contributions by each member of GCRI.
- Simple, effective and targeted awareness programmes for prevention as well as early detection of cancer and anti-tobacco drive directed at the medical profession and population at large.
- Providing hope, sympathy and respect to all those who are terminally ill.

कवचिदर्थं कवचिद्धर्मं कवचित् मैत्रीपरायणम् ।  
कर्माभ्यासं कवचिच्चैति चिकित्सा नास्ति निष्फला ॥

“Sometimes money, sometimes wisdom, sometimes social support or sometimes work experience is obtained. One’s efforts to alleviate suffering never go un-rewarded.”

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## Message from Chairman



The fight against cancer is one of the toughest fights one can face. Each year the count of those battling it is on the rise. Some are fortunate to have families and friends who support them. Some others grimly battle it out on their own. Gujarat Cancer & Research Institute (GCRI) has been playing a stellar role as a Regional Cancer Centre giving a reassurance to patients that they are not alone.

Cancer is the fastest growing disease worldwide. Each year, about 12 million people are diagnosed with cancer across the globe. In developed countries, cancer has become the leading cause of death, and in developing countries, it is second only to heart disease. Our elderly population is at high risk as it has been found that after the age of 55 years, the risk of cancer increases to 78% in developed countries as opposed to 58% in developing countries. By 2020, the global cancer burden is expected to rise by 50% owing to the increasingly elderly population. It is estimated that by 2030, the global cancer burden will nearly double, growing to 21.4 million cases and 13.2 million deaths.

All this is likely to pose a challenge to the delivery of cancer care as it will increase the need for more comprehensive and accessible cancer care management. Coordinated, team-based cancer care will be essential to ensure value-based care. The increasing incidence and prevalence of cancer will place new demands on our health care systems.

Gujarat Cancer & Research Institute's (GCRI) mission has been to look at comprehensive healthcare management to address these challenges. Last year 28,813 new cases were registered. GCRI treated 2,99,393 outdoor patients and 2,46,672 indoor admissions. The sheer number of tests and screenings which is an important part of cancer detection and treatment handled by GCRI last year is equally staggering - 19,08,765 laboratory tests have been conducted, 2,93,135 histologic, cytologic and bone marrow examinations, 1,03,238 imaging and radiological investigations besides 20,944 major and minor surgeries, 50,036 chemotherapy and 80,000 radiation treatments. All this speaks of GCRI's ongoing commitment to help patients receive cutting-edge treatment and services, especially those who are underprivileged and needy.

With research being one of the important components GCRI has 5 well equipped research labs, 54 research projects and 9 clinical trials are currently underway. GCRI is connected with national registry programme spearheaded by ICMR, the Ahmedabad district cancer control programme rolled out by the Govt. of India under NCCP and the Govt. of Gujarat's cancer atlas project.

GCRI also conducts OPD and indoor activities for diagnosis, offers treatment, monitors disease progress and renders free or subsidized treatment to needy patients. It runs early detection programme, hospice care, telepathology and telemedicine projects and has also instituted a patient care evaluation committee. Six mobile cancer screening van (Sanjeevani Rath) camps were organized in various places of Gujarat.

Several programmes have been initiated for education and creating awareness. In 2013, 7238



visitors from various schools, colleges, institutions and NGOs participated in the exhibition on the hazards of tobacco and smoking.

Cancer has diverse implications and impacts diverse populations. GCRI has been committed to meet this challenge by stepping up efforts directed at screening for cancer, treating, and improving survival of cancer besides looking at strategies to manage the costs related to cancer. A comprehensive and appropriate cancer strategy takes into account that cancer strikes across age groups, gender and socioeconomic disparities. Any healthcare strategy must include prevention and early detection of cancer, evidence-based treatment strategies, access to affordable cancer management, supportive care to meet patient needs and provide support and dignity in all settings.

There is much ground to be covered in this ongoing fight against cancer and GCRI is fortunate to have a team of dedicated and highly committed physicians, surgeons, academicians, researchers, administrators and healthcare management professionals who carry the torch of care and compassion and with it light the hope for people suffering from the scourge of cancer.

As we march ahead in this battle against cancer, we will continue to strive to improve the patient care facilities as well as clinical care. We also plan to undertake a broadbased transformational programme which will take us to higher levels of excellence in care and treatment. The overall aim is to transform GCRI into a world-class cancer care, treatment and research centre.

Date : June 27, 2014

Mr. Pankaj R. Patel, Chairman,  
Governing Board, GCRI



## From The Desk of Incharge Director



It is almost one year, since I took over the charge of Director, Gujarat Cancer & Research Institute. I have served this institute since 1985 in various capacities, but after holding the highest position of administration, I got opportunity to see the management and patient care aspect of this largest cancer care centre, very closely.

The biggest strength of GCRI is its patient flow. Though the largest number of patients attending GCRI is from Gujarat, 18% are from neighboring states of Rajasthan, MP, Maharashtra and even Bihar. Almost 21% patients are from city of Ahmedabad. It is not only number, which is increasing by 3 to 5 % every year, it reflects their faith in the healthcare system of GCRI, which brings them to us for treatment.

MA Yojana, Low Income Group scheme and other Govt-Schemes have boost up our scope of serving the people from lower socio-economic strata, which is the mission of GCRI, "To serve one & all". About 17% of patients we treat belong to MA yojana and 23% patients are getting benefit of other schemes of Central and State Government. This gives us ample opportunity to serve underprivileged, which should not be deprived of their right to have equal opportunity to healthcare. They are receiving treatment for their Cancer at par with any other corporate Cancer Center, having technically advanced cancer treatment facility.

Same is true for children suffering from various childhood cancers. They get benefit of Government's "School Health Program". Out of total 2011 childhood cancers like leukemia, lymphomas, cancers of bone, eye and intestine treated, in 2013 at our institute, 651 children were covered under School Health Program.

GCRI is the only stand alone Cancer Care unit, a state institute having high end equipment for diagnosis, treatment and research in cancer. The services of GCRI are extended in North Gujarat, where GCRI Siddhapur Cancer Care Centre has been operational since Oct 2013. This centre has started radiation therapy treatment for patients of Patan, Mehsana, Sabarkantha and Banaskantha district and also for patients from border area of Gujarat and Rajasthan.

No Cancer Care is complete without reaching out to community. GCRI has done tremendous work, not only in early detection, awareness and prevention but also reaching out to patients at home for palliative care in advanced stage of disease.

Dedicated staff and technology support are strength of this organization. I am convinced that our institute has ample scope and opportunity in Cancer Control, Cancer Care and Cancer Research. In coming years it will be reaching out to more and more patients by supporting many upcoming Cancer Centers in Gujarat.

Dr. R K Vyas, In-charge Director

Date : June 27, 2014

## GCRI Profile At A Glance

### GCRI - Speciality Hospital for Cancer Regional Cancer Centre

- 650 indoor beds - Largest Cancer Hospital of the country
- 28,813 New Cases
- 2,99,393 Outdoor patients
- 2,46,672 Indoor admissions
- 19,08,765 Laboratory tests
- 2,93,135 Histologic, cytologic and bone marrow examinations
- 1,03,238 Imaging and Radiological investigations
- 20,944 Major and Minor Surgeries
- 50,036 Chemotherapy Treatment
- 80,000 Radiation Treatment

### GCRI - Speciality Medical Education Centre

- DM - Medical Oncology
- MCh - Surgical Oncology
- MD – Pathology, Microbiology, Radiodiagnosis, Gynaecological Oncology, Anaesthesiology, Radiotherapy
- DMRE – Radiodiagnosis; DA – Anaesthesiology;  
DCP – Pathology; DGO – Gynaecological Oncology
- Postgraduate Students – 98 Students
- PhD - Life Sciences & Medical Microbiology – 14 Students
- Dissertation Students of different universities – 15 Students
- Diploma in Medical Laboratory Technologists – 50 Students
- MSc in Cancer Biology -15 Students

## GCRI Profile At A Glance

### GCRI - Research Organisation

- 5 well equipped Research Labs
- 54 on-going Research Projects; 9 Clinical Trials
- Scientists are PhD Guides
- Additional support from - National Cancer Institute (NCI), USA/Germany/IARC/DST/DBT/CSIR/ICMR/DAE/GSBTM/DMER/GUJCOST/GCS
- Clinical Research hub for National and International drug trials

### GCRI - Community Commitments

- National Registry Programme - ICMR
- Ahmedabad District Cancer Control Programme Govt. of India under NCCP
- Prevention of cancer - Anti-Tobacco drive  
Early detection - Vasna Centre & Cancer Detection Camps
- Hospice care; Home Hospice care
- Helping hand to poor patients
- Telepathology and Telemedicine projects
- Patient Care Evaluation Committee; Oncology Training Centre
- Sanskar Chowk (Entertainment and Education of Patients and their Relatives)
- Night Shelter for Patient's Relatives

# A. ANAESTHESIOLOGY

## (A1) ANAESTHESIOLOGY

10

Dr. Bipin Patel  
Professor & Head

Dr. Geeta Joshi  
Professor & Head  
Pain and Palliative Care  
Deputy Director

Dr. Bhavna Shah  
Dr. Jayshree Thakkar  
Dr. Priti Sanghavi  
Professors

Dr. Jenish Patel  
Dr. Amita Jansari  
Junior Lecturers

Dr. Dipika Patel  
Dr. Neeta Gosai  
Dr. Damini Makwana  
Dr. Leena Patel  
Associate Professors

Dr. Kinna Shah  
Dr. Bijal Shah  
Dr. Priti Patel  
Dr. Madhuri Bhade  
Dr. Bhavna Patel  
Dr. Rekha Solanki  
Assistant Professors



**Services:** The services of department of anaesthesia are spread throughout the hospital. Expertise of anaesthesiologists are not only required in giving anaesthesia or monitored anaesthesia, but plays an important role in peri-operative care, pain management, care of ICU patients, emergencies and resuscitations and central venous access. Neuro-Onco-Anaesthesia is a Superspeciality, which has well established Anaesthesia services.

Cancer Pain Management, which requires intervention are treated by anaesthesiologists. We have well established set up for anaesthesia, advanced monitoring, airway management and ventilatory support for critically ill patients. Anaesthesia services are integrated part of each and every departments of institute.

| Details of Work Done                          | Number of Patients |
|---|--------------------|
| Major Operations                              | 5289               |
| Neuro OT                                      | 552                |
| Day Stay Unit                                 | 6480               |
| Pain Clinic Interventions (Nerve blocks)      | 228                |
| CT Scan + MRI + USG Guided Biopsy + PET Scan  | 269                |
| Intra + Intra Cavitary Radium                 | 941                |
| Anesthesia in pediatric patients (RT)         | 1846               |
| Interventional Therapy under anesthesia(IVTC) | 42                 |
| Central and Peripheral venous access          | 1197               |

### Educational Activities

Every second Saturday, a lecture on 'Learn CPR, Save Life' for all resident doctors, faculties and nursing staff of GCRI was organised by Dr. Kinna Shah, Dr. Jayshree Thakkar and Dr. Geeta Joshi.

### Major Achievements

**Dr. Bipin Patel** is a State President IMA GSB for the year 2013-2014. He is a member of National working group of IMA, GFATM, RNTCP, PPM, and RCC project of IMA.

**Dr. Jayshree Thakkar** coordinated workshop on 'PICC and Central Venous Access' held at GCRI on August 17, 2013.

**Dr. Priti Sanghavi and Dr. Dipika Patel** completed 'Certificate course in Essentials of Palliative Care Medicine' in June 2013.

**Workshop Organized:** A workshop on PICC and Central Venous Access Grosshong Central Venous Catheter and Peripheral Port insertion was organised at GCRI on August 17, 2013. Dr. Priti Patel, Dr. Jayshree Thakkar and Dr. Bipin Patel were the organising secretaries.



## (A2) PAIN & PALLIATIVE MEDICINE

12

Dr. Geeta Joshi  
Professor & Head  
in Anaesthesiology

Dr. Kalpesh Mecwan  
Dr. Ruchira Trivedi  
Medical Officers



**Services:** Being a Regional Cancer Center, we have un-interrupted supply of oral Morphine for Cancer patients. Interventional procedures for Pain Management are done in co-ordination with anaesthesiologists. Intravenous, subcutaneous or Epidural Morphine injection is given for difficult cases.

| Details of Work Done  | Number of Patients |
|---|--------------------|
| New OPD Patients  | 2494               |
| Follow up OPD Patients  | 5412               |
| Interventions done for Pain Management                                      | 235                |
| Indoor Patients attended  | 295                |
| Other Interventions (PEG, Ryle's Tube, T'stomy, J'stomy, ICD Insertion etc) | 51                 |
| Home Hospice Care   | 62                 |
| Admissions to Hospice, Community Oncology Centre, Vasna                     | 138                |

### Clinical Activities

Patients with pain and other symptoms like Nausea, Vomiting, Diarrhea, constipation, Anorexia, Fatigue, Depression, Insomnia, Anxiety are referred to us as Out-patients as well as from In-patients. We also provide supportive care to patients undergoing Radio and Chemotherapy and help them

tolerate side effects.

We take care of terminally ill patients and counsel their relatives for upcoming event.

We do home visits in afternoon on daily basis for home bound patients and make them comfortable in their own environment.

Patient with maggots in wound, having difficult symptoms, and terminally stage of disease are

admitted at Hospice at Vasna Center. Counseling is the most important part of Palliative Care. Counseling regarding disease, its stage, recurrence and prognosis is part of the care. Patients and their families are provided Social, Spiritual and Psychological support along with medicines.

### Academic Activities

Department is recognized for “Essentials of Palliative Care” a certificate course recognized by IAPC. This course was conducted in June 2013 and December 2013. Total 36 medical and paramedical staff completed this course successfully.

### Research Activities

Sphenopalatine Block for Head & Neck Cancer Pain Management: This is a project supported by Gujarat Cancer Society, started in July 2013. It will be done over a period of two years and 50 patients suffering from Pain due to Head & Neck cancer, will be treated by Radio frequency ablation of Sphenopalatine Ganglion and will be followed up. **Dr. Priti Sanghavi**, **Dr. Geeta Joshi** and **Dr. Dipak Patel**, (Neurosurgeon) are investigators for the project.



A dedicated computer system with software for patient records is available for record keeping. Such records will go a long way in providing assistance to Cancer Registry as well. A periodic evaluation of the data helps us in research and further planning of treatment. Jiv Daya Foundation has provided this online software for keeping Patients' record.

### Community Activities

#### World Hospice & Palliative Day celebration:

'World Hospice & Palliative Day' was celebrated on October 12, 2013 at Hospice Center, Vasna, Ahmedabad. A Poster Competition was held amongst the staff of Hospice. The staff acknowledged all patients and got their feedback. **Dr. Pankaj M. Shah**, Vice President of Gujarat Cancer Society remained present and encouraged the staff involved in noble work of Holistic care of patients.

### Major Achievements

**Dr. Geeta Joshi** was elected as Governing Council Member of Indian Association of Palliative Care at IAPCON 2013, Bangalore.





# B. COMMUNITY ONCOLOGY & MEDICAL RECORDS

14

Dr. Parimal Jivarajani  
Associate Professor &  
Head

Mr. Mansukh Patel  
Medical Record Officer

Mr. Himanshu Patel  
Mr. Jayesh Solanki  
Statistical Assistants

Mr. Ratnakar Shrotriya  
Medical Record Keeper

Ms. Vishruti Pandya  
Junior Statistical Assistant



**Services : New O.P.D.**

During the year 2013, a total of 28,813 patients are registered. The documents under various schemes/categories such as Below Poverty Line (B.P.L.) cards, Employees State Insurance Scheme (E.S.I.S.), State government employees/pensioners, Mukhyamantri Amrutam Yojana (MA Yojana), Lower income group category, Scheduled Castes (SC), Scheduled Tribes (ST) categories, etc. are verified. Some special radiological and laboratory investigation cards are issued. Year wise general statistics is also prepared.

**Old O.P.D.**

It maintains the records of newly registered cases as well as old (follow-up) cases. There are 2,99,393 outdoor patients visited during the year 2013. Pathology reports and Traveling pass are issued. The work of indoor patient registration and medical reimbursement are also done. Patient's follow up information are also kept. Other departments are also referring case files for their study purposes. Computerised medical certificate are issued. Forms for Medclaim policy and Life Insurance policy of expired patients are filled.

| Details of Work Done                              | Number of Patients |
|---|--------------------|
| Total new cases registered (Cancer & Non-cancer)  | 28813              |
| Adult Cases                                       | 27527              |
| Pediatric Cases                                   | 1284               |
| Total No. of Outdoor Patients visited             | 299393             |
| New Admission during the year                     | 19190              |
| Inpatient days                                    | 246672             |
| Average inpatient stay                            | 12.96              |
| Strength of beds                                  | 650                |
| Death During the Year                             | 1367               |
| Haematological investigations                     | 814830             |
| Biochemical investigations                        | 694273             |
| Bacteriology investigations                       | 18874              |
| Serology investigations                           | 85282              |
| Cytological investigations                        | 16861              |
| Histological examinations                         | 91959              |
| Bone Marrow examinations                          | 4395               |
| Biopsy Procedures (Other than Endoscopies & BMBx) | 11091              |
| Total BT given to the patients                    | 14865              |
| Total Plasma/PRP given to the patients            | 18992              |
| Imaging & Radiological Investigations             |                    |
| MMR Barium Swallow & other X-rays                 | 54298              |
| Ultrasound examinations                           | 23460              |
| CT Scan investigations                            | 14122              |
| MRI   | 2982               |
| Mammograms  | 4443               |
| OPG   | 3071               |
| Colour Doppler                                    | 862                |
| Radiation Treatment                               |                    |
| Brachy Therapy                                    | 902                |
| Cobalt Teletherapy                                | 925                |
| Linear Accelerator                                | 5062               |

| Details of Work Done                        | Number of Patients |
|---|--------------------|
| Bhabhatron                                  | 2798               |
| Mould prepared for Planning                 | 2569               |
| Simulator treatment Planning                | 8056               |
| Surgical Operations                         |                    |
| Major                                       | 4839               |
| Minor                                       | 10646              |
| I.V.T.C                                     | 4917               |
| Neurosurgical Operation                     | 542                |
| Nuclear Medicine (Isotope)                  |                    |
| PET CT Scan                                 | 1250               |
| Isotop Scan                                 | 3013               |
| Iodine Therapy                              | 83                 |
| Tumor Markers                               | 32459              |
| Immunochemistry and Flow Cytometry          | 7384               |
| Biochemical investigations (Research wing)  | 426                |
| Karyotyping and FISH analysis               | 2632               |
| Physiotherapy treatment                     | 23635              |
| Total Number of Chemotherapeutic procedures | 50036              |
| Bone Marrow Transplants                     | 32                 |
| ECG   | 18636              |

### Activities

The department works largely in three different areas. (a) Cancer Registry Programme (b) Cancer Control Programme and (c) Cancer Epidemiology

#### (a) Cancer Registry Programme:

Cancer registry plays a major role in ensuring good quality cancer data which can be helpful in cancer care, planning of health service and cancer control programmes. The department has been maintaining both hospital based cancer registry and population based cancer registry.

**Hospital Based Cancer Registry:** The hospital based cancer registry has been functioning since long. It is initiated and run by the institute as per the standards and norms prescribed by the National Cancer Registry Programme (NCRP) of the Indian Council of Medical Research (ICMR).

**Population Based Cancer Registry:** In collaboration with National Cancer Registry Programme (NCRP), ICMR, department is working on two research projects for population based cancer registries.

**1. Rural Cancer Registry Ahmedabad district Project:** It was started from 1<sup>st</sup> January 2004 with the objective of assessing the magnitude and types of cancers in Ahmedabad Rural Areas and to calculate estimate of cancer incidence in Ahmedabad District.

**Activities:** Report for the year 2011 is ready to publish. Collection and compilation of cancer data for the year 2012 has been completed. Work for the year 2013 is in progress.

**2. Population Based Cancer Registry Ahmedabad Urban Agglomeration Area:** It was started from the year 2007 with the objective of assessing the magnitude and types of cancers in Ahmedabad city and to calculate estimate of cancer incidence in Ahmedabad Urban Area.

**Activities:** Collection and compilation of cancer data for the year 2011 has been completed. Work for the year 2012 and 2013 is in progress.

### (b) Cancer Control Programme:

The department runs cancer control programme as per the aim and objectives laid down by National Cancer Control Programme, Government of India. The department organises various cancer awareness and detection camps for primary prevention of cancers by health education especially hazards of tobacco consumption and necessity of genital hygiene for prevention of cervical cancers and secondary prevention i.e. early detection and diagnosis of cancers.

**Cancer Awareness Camps:** The department organises cancer awareness camps with the objectives of promoting awareness about the risks of common cancers and their curability if detected early in the community. During these camps, knowledge on cancer like its causes and natural history, warning signs and symptoms of cancer are explained to the

visitors. Self-examination methods are emphasized particularly of oral cavity with need for quitting tobacco. Method of breast self-examination is also propagated among women visitors. Awareness about cancer is created by distribution of publicity material like pamphlets, posters, flip charts, exhibition and audio-visual programmes.

In a year, 3 education camps (Cancer Exhibition) were organized and 300 individuals visited the exhibition.

**Cancer Detection Camps:** Department involves in arrangement of cancer detection camps at various places in Gujarat. The objectives of the detection camps are to detect cancers in their early stage especially oral cancers in men, and breast and cervical cancers in women. Suspicious cases were referred to GCRI for further diagnostic and therapeutic care.

In a year, 31 cancer detection camps were organized in Gujarat State and screened 1897 individuals and 33 suspicious cases referred to GCRI. Following table shows summary report of cancer detection camps.

**Mobile Cancer Screening Van (Sanjeevani Rath) Camps:** A high tech cancer screening mobile van (Sanjeevani Rath) was launched in the year 2009 to detect the cancer patients in their early stages of the ailment, especially in rural areas. The expert team identifies suspected cases of possible cancer and if needed, refers them to GCRI for further evaluation. This mobile cancer screening van is equipped with advanced mammography and sonography machine which are very useful to detect breast cancer - the most common cancer found in women in their very early stage.

A total of 6 mobile cancer screening van (Sanjeevani Rath) camps were organized in various place of Gujarat state and screened 277 individuals and 26 suspicious cases referred to GCRI during the year 2013. Following table shows summary report of Sanjeevani Rath camp activities.

### Siddhpur Cancer Care Centre OPD

A total of 120 OPD days at Siddhpur screened 632 individuals and 291 suspicious cases referred to GCRI during the year 2013.



### Cancer Awareness Activities at Community Level:

Department is taking active participation in celebration of different days like World No Tobacco Day, World Cancer Day, National Cancer Awareness Day, Kite Flying Day, Holi, etc. The objectives of these celebrations are :

- i) To create awareness about cancer among common people
- ii) To motivate people about screening of common cancers (Oral, Breast and Cervix)
- iii) To sensitize people against tobacco hazards

### (c) Cancer Epidemiology:

Department helps Doctors and Researchers for Statistical Analysis of their studies. It provides various data to the Doctors and Researchers for their dissertation / research work. Department also provides various statistical data and reports to the Administration and Government as and when required.

During the year 2013, 47 GCRI staff requested for data retrieval and 14 GCRI staff was assisted for their Statistical Analysis work.

## Research Activities

Department has two research projects.

**HPV Vaccine Project:** GCRI is a collaborative research centre with International Agency for Research on Cancer (IARC), Lyon, France, and working on a project entitled Effectiveness and safety of 2 Vs 3 doses of HPV vaccine in preventing cervical: An Indian multi-centre randomized trial.

**INDOX Project:** GCRI is one of the participating centres for INDOX case control consortium study for breast cancer and colorectal cancers in India.

Meeting organized: The Ahmedabad Cancer Registry Advisory Committee (ACRAC) Meeting was organised on October 15, 2013.



# C. GYNAECOLOGICAL ONCOLOGY

18

Dr. Shilpa Patel  
Professor & Head  
Chief of Unit - I

Dr. Pariseema Dave  
Professor

Dr. Ava Desai  
Professor Practicing  
Chief of Unit - II

Dr. Meeta Mankad  
Professor Practicing  
Chief of Unit - III

Dr. Anjana Chauhan  
Associate Professor  
(Practicing)

Dr. Ronak Bhansali  
Assistant Professor  
(Practicing)

Dr. Ruchi Arora  
Dr. Bijal Patel  
Dr. Chetana Parekh  
Assistant Professors



The gynaecological department conducts a well woman clinic daily at the hospital especially for early detection of pre-invasive and invasive cervical malignancy. Pap's smears and Colposcopy are performed free of charge. Biopsies are taken at nominal charge. Camps for early detection are conducted at various places in Gujarat including organizations such as Air Force, Armed Forces etc.

| Details of Work Done                                     | Number of Patients                       |
|--|--|
| OPD patients   | New cases-3672<br>Follow-up cases -11328 |
| Pap smear  | 8130                                     |
| Cervical Biopsy, Vulval Biopsy<br>Endometrial Aspiration | 2193                                     |
| Colposcopy   | 205                                      |
| Total Major Surgeries                                    | 491                                      |
| Radical Hysterectomy + BPLND                             | 80                                       |
| Laparotomy for Ovarian Tumors                            | 244                                      |
| Staging Laparotomy for Endometrial<br>Cancer             | 69                                       |
| Radical Vulvectomy + Groin Dissection                    | 18                                       |
| Other Major Surgeries                                    | 80                                       |
| Total Minor Surgical procedures                          | 347                                      |

### Clinical Activities

The department offers services in following areas (1) Well Woman Clinic for early detection of gynaecological malignancies, especially Pap's smears for cervical cancer. (2) Colposcopy Clinic is run with the help of a state-of-the-art Zeiss colposcope with teaching aid. Colposcopies are performed and directed biopsies taken. During the year, total 205 Colposcopies were performed. (3) Conservative management of pre-invasive cervical cancer by Large Loop Excision of the Transformation Zone (LLETZ). It is one of the first centers in India to have established facilities of LLETZ, which is considered the best method for the diagnosis and treatment of premalignant cervical lesions. During the year, 15 Large Loop Excision of the Transformation Zone were performed. (4) Referral Centre for diagnosis and management of all premalignant and invasive gynaecological malignancies such as cervical cancer, trophoblastic disease, ovarian tumors, vulvar cancer, endometrial cancer etc.

A Total 149 camps organized at various places in this year.

### Academic Activities

A total of 215 lectures were taken in the department for teaching and academic purpose. Knot tying workshop organised by department with the help of B'braun Company on March 15, 2013.

### Research Activities

There are two research projects on human papilloma virus type 16 and 18 in cervical cancers and VEGF family expression in cancer cervix in collaboration with Biochemistry Research Division are ongoing.

### Major Achievements

**Dr. Shilpa Patel**, Professor and HOD awarded a FOGSI GSK Prize for the best paper entitled 'Ovarian carcinoma or abdominal Tuberculosis? – A diagnostic dilemma: Study of 15 cases' published in Journal of Obstetrics and Gynecology of India, 2012.

**Dr. Anjana Chauhan**, nominated as Scientific Committee Member in Managing Committee of AOGS for the year 2013-2014.

**Dr. Bijal Patel**, received second prize in the poster competition at first Indian Cancer Congress 2013, New Delhi, November 21-24, 2013.

**Dr. Dipika**, third year resident, awarded best poster prize at Radiology Conference, Vadodara, March 2013.

**Dr. Arun Desai**, second year resident, awarded second prize in the poster competition at SOGOG, Vadodara, 2013.



## D. MEDICAL & PAEDIATRIC ONCOLOGY

20

Dr. Asha Anand  
Professor & Head  
of Medical Oncology

Dr. Pankaj Shah  
Dr. Kirti Patel  
Dr. Shilin Shukla  
Professor Emeritus

Dr. Shailesh Talati  
Professor & Chief  
of Medical Unit III  
(Practicing)

Dr. Harsha Panchal  
Dr. Apurva Patel  
Professors

Dr. Sandip Shah  
Associate Professor  
incharge of BMT  
(Part time practicing)

Dr. Sonia Parikh  
Associate Professor

Dr. Nitin Joshi  
Junior Lecturer-  
Pediatician

Dr. Dilip Shah  
Hon. Physician

Dr. Premal Thakore  
Dr. Dipal Parekh  
Dr. Urvi Parekh  
Endocrinologists

Dr. Rohan Kusumgar  
Psychiatrist

Dr. Rajiv Bansal  
Dr. Bhavesh Thakkar  
Gastroenterologists

Dr. Kamlesh Shah  
Dr. Kinnari Patel  
Medical Officers-  
BMT



**Services:** Department of Medical & Paediatric Oncology, GCRI has dedicated Medical & Paediatric Oncology Wings. The Department started functioning in 1972 and has established Clinical Trial Wing (CTW) in 1986, Super Specialty DM Medical Oncology Course in 1991, Paediatric Oncology Centre in 1992 and Bone Marrow Transplantation (BMT) Service in 2000.

| Details of Work Done  | Adult patients | Paediatric patients | Total        |
|---|----------------|---------------------|--------------|
| <b>Clinical Cases</b>   | <b>76371</b>   | <b>17576</b>        | <b>93947</b> |
| New + Refer   | 12464          | 1321                | 13785        |
| Old   | 63907          | 16255               | 80162        |
| <b>Procedures:Total</b>   | <b>9938</b>    | <b>5109</b>         | <b>15047</b> |
| Bone Marrow Aspiration  | 4888           | 1744                | 6632         |
| Others<br>(Intrathecal, Pleural & Ascitic Fluid Aspiration)   | 5050           | 3365                | 8415         |
| <b>Chemotherapy:Total</b>   | <b>52971</b>   | <b>6842</b>         | <b>59813</b> |
| Day Care Chemo – Room No. 7   | 43557          |                     | 43557        |
| Special Ward  | 1893           |                     | 1893         |
| Male Medical Ward   | 4794           |                     | 4794         |
| Female Medical Ward   | 2389           |                     | 2389         |
| Isolation Ward  | 338            |                     | 338          |
| <b>BMT:Total</b>  | <b>31</b>      |                     | <b>31</b>    |
| <b>Autologous</b> (Multiple Myeloma 8, Lymphoma 4, Hodgkins Disease 7, Neuroblastoma 1)                                   | <b>20</b>      |                     | <b>20</b>    |
| <b>Allogenic</b> (Acute Myeloid Leukemia 4, Aplastic Anaemia 4, Myelodysplastic Syndrome 1, Follicular Lymphoma 1, LAD 1) | <b>11</b>      |                     | <b>11</b>    |

### Academic Activities

The department runs DM Medical Oncology Superspeciality Course attached to BJ Medical College and Gujarat University since 1991 with an enrollment of 10 students every year. The students actively participate in clinical and educational activities of the department. Daily morning Academic session are conducted for DM students which include case presentations, journal club and other oncology topics under guidance of faculty. CME on oncology for under graduate and post graduate students of BJ Medical College are regularly conducted. Faculties are invited for guest lectures and lecture series are kept on webcast.

### Research Activities

The department has undertaken research projects supported by GCS, ICMR, and Pharma companies.

### Major Achievements

**Dr. Shilin Shukla**, Professor Emeritus awarded Dr. Aabaji Thatte Oration in the year 2013. He is editor of Medical Section of Gujarati Vishwakosh and consultant of Sarth Gujarati Jodni Kosh, Gujarat Vidyapith, Ahmedabad.

**Dr. Asha Anand** is appointed as Referee for peer review of Indian Journal of Pharmacology.

**Dr. Harsha Panchal** is incharge of Ratinoblastoma Tumor Board.

**Dr. Kinnari Patel** was observer in Royal Free Hospital London from May 5, 2013 to August 20, 2013.

**CME Organised:** CME in oncology was organised by BJ Medical College and Department of Medical Oncology on February 12, 2014 and Organising Secretaries were **Dr. Sonia Parikh** and **Dr. Bhavesh Parekh**.



# E. PATHOLOGY

(E1) HISTOPATHOLOGY, CYTOLOGY, BIOCHEMISTRY, HAEMATOLOGY

22

Dr. Manoj Shah  
Head and Professor  
(Practicing)

Dr. Dhaval Jetley  
Dr. Priti Trivedi  
Professors

Dr. Trupti Patel  
Associate Professor

Dr. Biren Parikh  
Dr. Birva Shah  
Dr. Beena Brahmbhatt  
Dr. Amisha Gami  
Dr. Majal Shah  
Dr. Jyoti Sawhney  
Dr. Ashini Shah  
Assistant Professors

Dr. Vibha Vyas  
Dr. Jahanvi Gandhi  
Junior Lecturers

Dr. Kazoomi Patel  
Dr. Trupti Jansari  
Dr. Anshul Agrawal  
Dr. Prakash Vidja  
Dr. Ripal Gosai  
Dr. Pratik Patel  
Fellows



# Technical Staff of Pathology



The Department of Pathology has been upgraded with various equipments for Clinical Pathological Analysis Report work. It includes various services like Histopathology, Cytology, Haematology, Biochemistry, Blood Bank, Paediatric Oncology Haematology, Vasna Hospice Haematology, Immunohistochemistry and Microbiology.

**Services:** Pathology department is the heart of our Hospital; central to any cancer management is tissue diagnosis. Metabolic profile and Haematological alteration in a cancer patient plays a pivotal role in overall outcome. The department is well equipped with highly sophisticated microscopes attached with camera and computer for teaching and record purposes. It provides services of Histopathological diagnosis, frozen section diagnosis, haematological tests, biochemical tests etc. The department has an internet facility for tele-pathology.

### Histopathology

| Details of Work Done                                  | Number of Patients |
|---|--------------------|
| Total number of biopsies / slides                     | 19030              |
| Total sections biopsy                                 | 22728              |
| Total operative specimens                             | 3947               |
| Number of slides                                      | 68956              |
| Total biopsies and specimens for review               | 7536               |
| Total number of slides (Review specimen and biopsies) | 20443              |
| Frozen specimens                                      | 586                |
| Total biopsies and specimens                          | 24304              |
| Total number of slides (Biopsy and specimens)         | 94052              |
| <b>Total number of slides</b>                         | <b>261582</b>      |

### Cytology

| Details of Work Done            | Number of Patients |
|---------------------------------|--------------------|
| Pap smear                       | 15120              |
| Fine Needle Aspiration Cytology | 5690               |
| Fluid cytology                  | 4208               |
| Outside / camp Pap Smears       | 1912               |
| Total cytology blocks           | 228                |
| <b>Total</b>                    | <b>27158</b>       |

### Biochemistry Laboratory

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| Blood Sugar          | 47681              |
| BUN                  | 39725              |
| S.Creatinine         | 78731              |
| S. Na                | 48153              |
| K+                   | 48212              |
| S.CL-                | 48657              |
| S.Alk.Phosphatase    | 38112              |
| S.G.O.T.             | 42453              |
| S.G.P.T.             | 42375              |
| S. Total Protein     | 34533              |
| S. Albumin           | 45027              |
| S. Globulin          | 8888               |
| S.Bilirubin Total    | 42821              |
| S. Bilirubin Direct  | 42821              |
| S.Bilirubin Indirect | 42821              |
| S. Acid Phosphatase  | 68                 |
| S.Uric Acid          | 6415               |
| S.Cholesterol        | 8955               |

| Details of Work Done    | Number of Patients |
|-------------------------|--------------------|
| S.Calcium               | 11366              |
| S.Phosphorus            | 1262               |
| S.Amylase               | 435                |
| S.Acetone               | 739                |
| Urine for B.J. Protin   | 0                  |
| 24 Ltrs.Urinary Protein | 17                 |
| C.S.F/Fluid             | 1351               |
| S.Magnesium             | 5193               |
| Triglyceride            | 3289               |
| H.D.L.C.                | 3279               |
| V.L.D.C.                | 3279               |
| L.D.L.C.                | 3279               |
| LD-P                    | 8102               |
| CYCLO                   | 402                |
| MTX                     | 1504               |
| LIPASE                  | 83                 |
| S. Iron                 | 158                |
| TIBC                    | 116                |
| <b>Total</b>            | <b>7,10,302</b>    |



## Haematology

| Details of Work Done              | Number of Patients |
|-----------------------------------|--------------------|
| Haemoglobin                       | 128455             |
| TC                                | 128411             |
| PC                                | 128410             |
| RBC                               | 128410             |
| Differential Count                | 128410             |
| Differential Count (Manual)       | 56138              |
| Erythrocyte Sedimentation Rate    | 3561               |
| Urine analysis                    | 12669              |
| Urine Bile Salt / Bile Pigment    | 12669              |
| PS / Indices                      | 4534               |
| Prothrombin Time                  | 28279              |
| APTT                              | 27643              |
| Plasma Fibrinogen                 | 449                |
| Fibrinogen Degradation Product    | 76                 |
| Glucose-6-Phosphate Dehydrogenase | 63                 |
| Fetal Haemoglobin                 | 4                  |
| LE Cell                           | 0                  |

| Details of Work Done   | Number of Patients |
|------------------------|--------------------|
| Sticking Test          | 22                 |
| Sucrose Lysis Test     | 105                |
| Osmotic Fragility Test | 10                 |
| Reticulocyte Count     | 1772               |
| CSF Microscopy         | 536                |
| Pleural Fluid          | 413                |
| Ascitic Fluid          | 267                |
| Other Fluids           | 49                 |
| Stool Test             | 576                |
| Bone Marrow            | 4767               |
| Bone Biopsy            | 2300               |
| PS Stain               | 953                |
| Sudan Stain            | 962                |
| Iron Stain             | 236                |
| Lapa Stain             | 14                 |
| D-dimerd               | 9                  |
| <b>Total</b>           | <b>801172</b>      |

### Clinical Activities

The department conducts blood collections for special investigations at Out-door Patients' Department (OPD) at the Hospital especially for early detection of pre-invasive and invasive malignancy. Pap's Smears Tests and Serological Tests are performed free of charge and biopsies are taken at nominal charge. The Department of Pathology also examines and gives expert opinion of the outside Biopsies and Specimens and also performs Immunohistochemistry tests thereon. The outdoor Blood Donation Camps are conducted at various places in Gujarat. The department also actively participates in GCRI Academic Meetings.

### Academic Activities

The department imparts Practical/Theory Training to Post-graduate students /Doctors for MD Degree, DCP and observers come from various local hospitals and from other States as well as to students for Medical Laboratory Techniques Course. Maintenance of patient's record and statistical data analysis is done.

### Major Achievements

**Dr. Trupti Patel**, Associate Professor was organizing secretary of CME in Cytopathology.

**Dr. Biren Parikh**, Assistant Professor obtained degree of Master of Business Administration (MBA) and was organizing Secretary for Scientific Partnership for Her2 Testing Excellence (SPHERE) held in July 2013. He and **Dr. Beena Brahmhatt**, Assistant Professors were organizing secretaries of Workshop and CME on Clinical Flow Cytometry held at GCRI in February 2014.

**Dr. Satarupa Samanta**, Resident, won First Prize for oral paper presentation at VS Hospital on March 2, 2014.

**Dr. Shailee Mehta**, Resident, won First prize for poster presentation at CME on Clinical Flowcytometry held at GCRI in February 2014.

**Dr. Krutika Bhatt**, Resident won Second Prize for oral paper presentation at VS Hospital on March 2, 2014.

**Dr. Tanvi Gupta**, Resident won Third prize for poster presentation at CME on Clinical Flowcytometry held at GCRI in February 2014.

## (E2) BLOOD BANK

26

Dr. Rima Kusumgar  
Assistant Professor & Incharge  
Dr. Rajkumar Jethva  
Medical Officer



**Services:** Blood Bank is well equipped with all the modern equipments like Fully automated blood grouping and antibody screening machine, Column Agglutination [Gel-technology], Fully Automatic ELISA Machine, Apheresis machines, Blood Irradiator, Fully Automatic Component Separation Machine like: Optipress and TACE-II for leukoreduction of components which prevents the blood transfusion reactions. Apheresis procedures include plateletpheresis and therapeutic Apheresis and peripheral blood Stem Cell collection.

| Details of Work Done                 |                     | Number of Tests   |
|--------------------------------------|---------------------|-------------------|
| <b>Donor Area</b>                    |                     |                   |
| Blood Tapping                        |                     | 14743             |
| Replacement donors                   |                     | 8638              |
| Voluntary donors                     |                     | 5351              |
| Outdoor camps                        |                     | 97                |
| <b>Transfusion</b>                   |                     |                   |
| Whole Blood                          |                     | 0                 |
| PCV (Packed Red Cell)                |                     | 14865             |
| PC (Platelet Concentrate)            |                     | 13792             |
| FFP (Fresh Frozen Plasma)            |                     | 3415              |
| Single donor platelet                |                     | 712               |
| Autologous & Allogenic BM Collection |                     | 53                |
| Therapeutic Leukocytapheresis        |                     | 9                 |
| <b>Tests</b>                         | <b>For Patients</b> | <b>For Donors</b> |
| Blood Groups                         | 23837               | 14743             |
| Coomb's Test                         |                     | 443               |
| Du test for weak antigen             |                     | 734               |
| Cross Match                          |                     | 28683             |
| HbsAg                                |                     | 14743             |
| HIV                                  |                     | 14743             |
| HCV                                  |                     | 14743             |
| VDRL                                 |                     | 14743             |
| Malarial Parasites                   |                     | 14743             |

## Clinical Activities

Blood Bank collects blood from voluntary and replacement donors in the hospital and outside hospital by arranging the outdoor blood donation camps, collecting 15,000 blood bags per year. Blood grouping of the donors and patients is done and blood is supplied to the patients after cross-matching with latest technology.

## Academic Activities

The department is involved in training programme for Resident Doctors and Lab Technicians. It is also involved in teaching programme of M.L.T. Students. M.D. (Transfusion Medicine) students from the B.J. Medical College as well as doctors and technicians from all over Gujarat come for training of Component Separation and Apheresis procedures.

## Major Achievement

Blood Bank awarded Blood Donor Motivation from Ahmedabad Municipal Corporation AIDS Control Society (AMC-ACS) in 2013.



# (E3) MICROBIOLOGY

28

Dr. Parijath Goswami  
Professor & Head  
Dr. Foram Patel  
Assistant Professor



**Services:** The department is equipped with Fully automated Bacteriology (Identification and Antibiotic sensitivity testing) system, Semi automated Blood culture system BACTEC 9050 and Fully automated ELFA (Enzyme Linked Fluorescence Assay) system. It looks after the diagnosis of infectious diseases complicating cancer involving bacteria, fungi, Serodiagnosis of viral diseases, and molecular diagnosis of the infection in patients. It also caters to bring out guidelines for prevention of Health Care Associated Infection (HCAI), performs periodical surveillance and conducts frequent training programmes for nursing staff for HCAI.

| Details of Work Done                | Number of Tests            |       |
|-------------------------------------|----------------------------|-------|
| Culture & Antibiotic Susceptibility | Aerobic                    | 3602  |
|                                     | Anaerobic                  | --    |
|                                     | Fungal                     | 4432  |
|                                     | Blood (aerobic)            | 3251  |
| Microscopy                          | Special Gram Stain         | 381   |
|                                     | Routine Gram Stain         | 3602  |
|                                     | H.pylori                   | 13    |
|                                     | Z. N. Stain                | 566   |
|                                     | Pneumocystis Carinii Stain | 85    |
|                                     | Stool for Ova/Cyst         | 42    |
|                                     | Wet preparation            | 200   |
| Serology                            | Widal Test                 | 115   |
|                                     | RPR Test                   | 17    |
|                                     | C-reactive Protein         | 98    |
|                                     | RA test                    | 53    |
|                                     | CMV IgG test               | 65    |
|                                     | CMV IgM test               | 66    |
|                                     | HBeAg /AntiHBeAg           | 645   |
|                                     | S. HIV                     | 30541 |
|                                     | S. HBsAg                   | 30911 |
|                                     | S. HCV                     | 22031 |
|                                     | B2 Micro globulin          | 257   |
|                                     | Anti HbS                   | 108   |
|                                     | HbclgM                     | 216   |
|                                     | Western Blot test          | 16    |
|                                     | Dengue test                | 86    |
|                                     | Malaria                    | 66    |
| <b>Total</b>                        | <b>101380</b>              |       |

## Clinical Activities

The Microbiology department is mainly concerned with clinical diagnosis of infection and research work. As far as the diagnostic work is concerned, patient samples referred by surgical oncology / medical oncology / paediatric oncology / BMT units / gynaec oncology / neuro oncology / uro oncology / radiotherapy departments and OPD's

are subjected for culture identification and sensitivity tests and diagnosis of particular infection by various other test methods. Routine day-to-day laboratory diagnostic culture methods of all clinical samples are performed. Serological diagnoses of different infectious diseases are also carried out.



# F. RADIODIAGNOSIS (F1) IMAGING SERVICES

30

Dr. Hitesh Rajpura  
Professor & Head

Dr. Saumil Desai  
Professor

Dr. Himanshu Soni  
Associate Professor

Dr. Tejal Shah  
Dr. Bharat Chaudhary  
Junior Lecturers

Dr. Ajay Upadhyay  
Visiting Interventional  
Radiologist

Dr. Milan Jolapara  
Visiting Neuro Interventional  
Radiologist

Dr. Dilip Shah  
Part Time Echo-Cardiologist



**Services:** The department is fully equipped with 500 MA Siemens X-ray units, OPG machine- Siemens, Siemens IITV guidance Fluoroscopy machine, Mammomat-Mammography machine, Logic 200 Pro-series USG machine, GE advantage II – USG machine, V Scan portable USG machine, Siemens G-50-Doppler Machine, Fuji CR system, Medsynapse- Department networking and data storage system, CT W2000 Spiral CT scanner Hitachi, Siemens 6 slice (Emotion) CT scan and 0.4 Tesla Hitachi Aperto MRI Machine.

| Details of Work Done | Number of Tests | Number of Patients |
|----------------------|-----------------|--------------------|
| X-ray                | 52076           | 52076              |
| IVP                  | 11              | 11                 |
| Barium swallow       | 2601            | 2601               |
| Barium Enema         | 5               | 5                  |
| OPG                  | 2937            | 2937               |
| USG                  | 21426           | 21426              |
| Portable USG         | 369             | 369                |
| Color Doppler        | 852             | 852                |
| USG guided biopsy    | 2616            | 2616               |
| Pleural Tapping      | 85              | 85                 |
| Ascites tapping      | 42              | 42                 |
| CT scan              | 13376           | 13376              |
| CT guided biopsy     | 586             | 586                |
| MRI                  | 2707            | 2707               |
| PTBD                 | 55              | 55                 |
| Mammography          | 4499            | 4499               |
| RFA                  | 9               | 9                  |
| 2D Echo              | 630             | 630                |
| PCN                  | 12              | 12                 |
| CT SRS               | 7               | 7                  |
| CT Angio             | 30              | 30                 |
| CT Block             | 2               | 2                  |

### Clinical Activities

The department of Radio diagnosis conducts radiological part of health checkup programme at COC vasna. X-ray, mammography and ultrasonography are performed at cheaper rates, for early detection of pathology. Department also support radiological part at various camps and health checkup programmes managed by institute.

### Academic Activities

Regular lectures, case presentation, journal presentation and interesting case discussion conducted for resident doctors in the department.

### Research Activities

We are maintaining patient's data and images. We are generating statistical data and studies which are published in national and international conferences.

## (F2) Nuclear Medicine and PET CT

32

Dr. Swati Rachh  
Chief & Assistant Professor

Dr. Rasna Tiwari  
Assistant Professor

Dr. Nilam Patel  
Dr. Rinku Patel  
Medical Officers



**Services :** The department is equipped with Gamma Camera Dual head (infinia), PET-CT scanner (Discovery 600), Three Dose Calibrator, Survey Meter, Surface Contamination monitor, L-bench, Thyroid Uptake system, Two Fume Hood (one in radio-pharmacy other in iodine therapy ward), Decontamination Kit, Lead lined decay drum, Four lead barrier for I-131 therapy ward and Pocket dosimeter.

| Details of Work Done           | Number of Patients |
|--------------------------------|--------------------|
| Bone scan                      | 1632               |
| Cardiac scan                   | 107                |
| Parathyroid scan               | 36                 |
| Silography scan                | 72                 |
| Thyroid scan                   | 254                |
| HIDA scan                      | 46                 |
| MIBI Thyroid scan              | 1                  |
| DTPA scan                      | 71                 |
| DMSA scan                      | 150                |
| DRCG scan                      | 1                  |
| MIBG scan                      | 4                  |
| EC scan                        | 355                |
| I-131 Whole body / Iodine scan | 217                |
| High dose iodine therapy scan  | 88                 |
| DMSA- V scan                   | 2                  |
| I-131 Toxicosis therapy        | 32                 |
| Samarium therapy               | 0                  |
| GI study                       | 1                  |
| PET-CT scan                    | 1153               |

## G. RADIOTHERAPY

Dr. Rakesh Vyas  
Incharge Director

Dr. Jayprakash Neema  
Professor & Head

Dr. Gopal Maheshwari  
Professor

Dr. Devang Bhavsar  
Dr. U. Suryanarayan  
Associate Professors

Dr. Ankita Parikh  
Dr. Maitrik Mehta  
Dr. Pooja Nandwani Patel  
Dr. Sonal Patel Shah  
Assistant Professors





**Services:** The department is fully equipped with four Linear Accelerators with facilities of 3 Dimensional Conformal Radiotherapy (3DCRT), Intensity Modulated Radiotherapy (IMRT), Stereotactic Radiotherapy (SRT) and Stereotactic Radiosurgery (SRS), one Cobalt Machine, one Bhabhatron machine one Contact Therapy machine, one Low Dose Rate (LDR) Brachytherapy Unit, three Microselectron High Dose Rate (HDR) machines, two Simulator Machines and one Siemens CT Simulator Machine which is in Radiology department.

| Details of Work Done                              | Number of Patients |
|---|--------------------|
| OPD new cases                                     | 18100              |
| Cases referred from outside only for Radiotherapy | 2100               |
| Cobalt Teletherapy                                | 4200               |
| Linear Accelerators                               | 7500               |
| Brachytherapy                                     | 1550               |

### Clinical Activities

The department is treating patients come from nearby cities and also from Rajasthan, Madhya Pradesh and Maharashtra. It also participates in GCRI academic meetings.

### Academic Activities

Regular lectures, seminars twice weekly by resident doctors and bed side case presentation by resident doctors conducted in the department.

### Research Activities

Maintenance of patient's record is done. The data is presented in national and international level conferences and published in national and international journals.

### Major Achievements

**Dr. Jayprakash Neema** received GUNILLA Bental oration award in ARRTICON in August, 2013.

**Dr. Pooja Nandwani Patel** awarded Indian Cancer Society's Most Promising Oncologist 2013 at Best of ASCO, June 2013, Mumbai, India. She did one month's fellowship at Santa Clara Medical Hospital in October 2013. She also received SNO (Society of Neurooncology) Travel Fellowship to attend SNO's Annual Meeting in November 2013.

**Dr. Maitrik Mehta** completed educational course on Image Guided Radiotherapy in Clinical Practice at Royal Society of Medicine, London in October 2013.



## H. SURGICAL ONCOLOGY

There are six Surgical Oncology Units (H1), and six Superspeciality Oncology Units (H2-H7). Superspeciality Oncology Units are Interventional Therapy Centre (H2), Musculoskeletal Onco Surgery (H3), Ophthalmic Surgery (H4), Paediatric Surgery Oncology (H5), Plastic Surgery Oncology (H6) and Urosurgery Oncology (H7).

### General Surgical Oncology

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| Major surgeries      | 4411               |
| Minor surgeries      | 16941              |
| Endoscopy procedures | 15204              |

### Superspeciality Oncology

| Details of Work Done         | Number of Surgery |
|------------------------------|-------------------|
| Plastic Surgery Oncology     | 102               |
| Urosurgery Oncology          | 278               |
| Musculoskeletal Onco Surgery | 188               |
| Paediatric Surgery Oncology  | 160               |
| Ophthalmic Surgery           | 12                |

### (H1) General Surgical Oncology

Dr. Kiran Kothari  
Deputy Director & Professor

Dr. Shashank Pandya  
Professor & Head

Dr. Rajen Tankshali  
Dr. Jignesh Goswami  
Professors

Dr. Ashok Patel  
Dr. Jayesh Prajapati  
Dr. Jayesh D. Patel  
Dr. Jayesh J. Patel  
Dr. Mahesh Patel  
Dr. Hemant Shukla  
Associate Professors

Dr. Chaitanya Shroff  
Dr. Shailesh Patel  
Dr. Umank Tripathi  
Dr. Yogen Chheda  
Dr. Devendra Jain  
Assistant Professors  
Dr. Anoop Puri  
Junior Lecturer



**Services:** The department offers services in diagnosis, treatment and palliative care of the patients in the field of Cancers of Head and Neck, Thoracic, Gastro-intestinal and Colorectal, Hepato-pancreato-biliary, breast and others. In the last year total 4411 major surgeries were performed by general surgical oncology. Different surgical teams occupy eight major surgical operation theatres. Day stay unit facilities are provided for biopsy, endoscopic procedure and evaluation of lesion before planning of surgery. The department is involved in diagnostic, perioperative care, follow up and care of terminally ill patients.

## Clinical Activities

Camps for early detection of cancer are conducted at various places in Gujarat and in the neighbouring states, including organizations such as ONGC, Air Force and Armed Forces etc. The department also participates in GCRI academic meetings.

## Academic Activities

Regular lectures and teaching programmes are conducted for M.Ch. Resident Doctors and Fellows in the department in the form of case presentation, seminar, journal reading and region wise topic presentation.

## Research Activities

Maintenance of patient's records and statistical data analysis is done. The data is presented in national level conferences and published in national / international journals.

## Major Achievements

**Dr. Kiran Kothari**, Deputy Director & Prof. & Chief of Surgical Unit – III has done Hospital Executive Management Development Programm (HxMDP) offered by AIIMS, Srinagar (J & K), May, 2013. He has also done certificate Course in Research Methodology (CRM) offered by IIPHG, October,

2013. He has cleared PGDHHM (Post Graduate Diploma in Hospital and Health Management) theory examination course offered by IGNOU, 2013. Project submitted on 'Establishing Operation Theatre Services in New Medical College'. He has been elected as Joint Editor of 'Indian Journal of Surgery (IJS)' for the period of 6 years 2013 to 2018. He delivered 'P.K. Sen Memorial Orator' during ASICON 2013 held at Ahmedabad in December, 2013. He also delivered H. Lalmohan Singh Memorial Oration and Performed Breast Surgery at Pre-conference workshop during ASIMANICON 2013 held at Imphal in October, 2013. He is a Co-Investigator for the project on "Identifying role of miRNAs in Breast Cancer" (DBT Project).

## Conference organized

CME for B.J. Medical College M.S. (General Surgery) and M.S.(ENT), resident doctors was organized on March 2, 2014 at Cama Hall, GCRI, Ahmedabad. It was full day comprehensive teaching session. Total 100 students and faculty attended the CME. All students participated in CME and in interactive sessions. At the end of CME, participants were given the certificate, power point presentation of proceedings and useful study materials in pen drive.



## (H2) Interventional Therapeutic Centre (IVTC)

Dr. Yatin Patel  
Visiting Consultant for Endoscopy Procedures

Dr. Parthiv Mehta, Dr. Viral Shah  
Visiting Pulmonologists

Dr. Manish Bhatnagar, Dr. Sushil Narang, Dr. Rajivkumar Bansal  
Visiting, Gastroenterologist & Endoscopists

**Services:** The department had conducted 4921 procedures from April 2013 to March 2014 which included 220 E.R.C.P. procedures. Only 50% institutes in the world carry out more than 200 procedures every year making this a high volume centre for this specialized procedure. In addition to carry out routine diagnostic procedures all therapeutic procedures like dilatations, banding, sclerotherapy, Glue therapy, Pyloric dilatations,

ballon dilatation for achalasia cardia, oesophageal SEMS placement, duodenal SEMS placement, foreign body removal, snare ampullary excision for ampullary adenoma, biliary and pancreatic stenting, pleuroscopy, polypectomies and colonic stenting were carried out. The department has also been imparting training programme for those interested in learning endoscopy.

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| Gastroscopy          | 2352               |
| R.T. Insertion       | 420                |
| Dilatation           | 348                |
| Peg Insertion        | 39                 |
| Banding              | 96                 |
| Endoprosthesis       | 31                 |
| Inj. Glue            | 19                 |

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| Colonoscopy          | 660                |
| Rectal Stent         | 1                  |
| E.R.C.P.             | 220                |
| Bronchoscopy         | 715                |
| Pleuroscopy          | 10                 |
| B.M. Biopsy          | 9                  |
| Block                | 1                  |
| <b>Total</b>         | <b>4921</b>        |







### (H3) Musculoskeletal Surgery

Dr. Jyotindra Pandit  
Visiting Consultant

Dr. Mandip C. Shah  
Assistant Professor

**Services:** It has two OPD days in a week. The operation theatre of Musculoskeletal Oncology is well equipped with ultra-modern instruments and equipments like oscillating saw, oscillating drill, universal assimilating drill, laminar air flow,

radiolucent operation theatre table with all necessary attachments, Image Intensifier Television (IITV) etc. In this period total 188 surgeries were performed.

### Academic Activities

The department is also actively involved in teaching programme of M.Ch. students including

dissertation submission and internally case presentations in the institutional clinical meetings.

### (H4) Ophthalmic Surgery

Dr. Ashish Shah  
Visiting Consultant

**Services:** The department offers services in OPD, Operation Theatre and Day Stay, twice per week.

They examine, investigate and treat patients. In this period total 12 surgeries were performed.

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| OPD Patients         | 186                |
| GCRI Health Check up | 110                |
| Eye surgeries        | 12                 |

### Clinical Activities

Retinoblastoma tumor board initiation along with paediatric oncologists, radiation oncologists, pathologists and consultants from M & S Institute of Ophthalmology (for laser biopsy of retinoblastoma cases). In the last year about 30 tumor board meetings were held.

## (H5) Paediatric Surgery Oncology

Dr. Kumar Sumit Pramod  
Visiting Consultant

**Services:** The department offers its services to paediatric OPD, Day Stay Unit and operation theatre for treatment of paediatric cancer patients. The department does the procedure of Hickman

catheterization, a very important central catheter, for paediatric patients. The procedure is done under radiological guidance. In this period total 160 surgeries were performed.

### Academic Activities

The department is also actively involved in teaching programme of M.Ch. students including

dissertation submission and internally case presentations in the institutional clinical meetings.

## (H6) Reconstructive (Plastic) Surgery

Dr. Hemen Jaju, Dr. Hemant Saraiya, Dr. Parag Kothari  
Visiting Consultants

**Services:** Apart from attending OPD once a week, reconstructive surgeries are done in main operation theatre twice per week. In this period, total 102 surgeries were performed. Reconstructive surgeries for head and neck cancer patients and CFRs with the help of neurosurgeons

are done. Screening of patients requiring prosthesis is done in OPD and they are guided about the artificial limbs and body parts. The department offers services to the patients from all over Gujarat who require reconstruction of lost body parts and guides them about prosthesis.

### Academic Activities

The department is also actively involved in teaching programme of M. Ch. students including

dissertation submission and internally case presentations in the institutional clinical meetings.

## (H7) Urosurgery Oncology

Dr. Hemang Baxi and Dr. Rupesh Shah  
Visiting Consultants

**Services:** The department offers services in OPD, operation theatre and day stay unit. In this period

total 278 surgeries were performed. They examine, investigate and treat patients of urogenital cancer.

### Academic Activities

The department is also actively involved in teaching programme of M.Ch students including

dissertation submission and internally case presentations in the Institutional clinical meetings.

# I. NEUROSURGERY

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Dr. Dipak Patel, Dr. Navin Patel, Dr. Tejas Patel  
Visiting Consultants



**Services:** The department is well equipped with two operation theatres. The operation theatre is well equipped with Laminar Air Flow and state of the art anaesthesia system by British Oxygen Company, Microscope with CCTV by Zeiss, Ultrasonic Surgical Aspirator by Valley Lab, Modern Diathermy Generator by Valley Lab and Bovi, C-Arm with DSA facilities, Operation table with remote control, Radio Frequency Lesion Generator, Intensive Care facilities with state of the art cardio respiratory monitoring system and its own dedicated Central Sterile Supply department.

| Details of Work Done | Number of Patients |
|----------------------|--------------------|
| Supramajor surgery   | 434                |
| Major surgery        | 117                |
| Minor surgery        | 21                 |

## Academic Activities

The department is also actively involved in teaching programme of M.Ch. students including dissertation submission and internally case presentations in the Institutional clinical meetings.

## Clinical Activities

The department is running OPD on Monday and Thursday every week where new patients are examined and the follow up patients are regularly attended in the OPD. The indoor references are regularly attended. The services to the poor patients for neurosurgical diseases are offered. In this period 434 Supramajor, 117 major and 21

minor surgeries (Total = 572) were performed. The department also provides emergency services to the patients. The regular teaching to the Medical Officers and Research Fellow is carried out during the ward round and operation. The clinical meeting of the institute is being regularly attended by all the medical staff and the presentations are made in the clinical meeting as per the schedule. All the medical staff remains update with reading of the standard neurosurgical text books and the journals at the library. The department is also having interactions with other departments of the hospital e.g. Surgical Oncology, Plastic Surgery, Medical Oncology, Endocrinology, Biochemistry, Pathology, Radiation Oncology, Radiology and Physiotherapy. The medical staff is regularly presenting the clinical research paper at the national and international conferences. There is also potential to start DNB courses in the speciality of Neurosurgery at the Institute.

## J. SUPPORT SERVICES

Dr. Rakesh Vyas  
Incharge Director

Dr. Kiran Kothari  
Dr. Geeta Joshi  
Deputy Directors

Shri Narendrasinh Chavda  
Hospital Administrator

Dr. Bhalchandra Pandya  
Dr. Deepak Rathod  
Dr. Dhruvi Desai  
Resident Medical Officers



### (J1) Administrative Services

There are two Class-I level, four Class-II level and thirty-nine Class-III level employees. In addition three Resident Medical Officers offer their services. A Professional Contribution and Recognitionary Civil Engineer and a management trainee actively assist it.

For day-to-day smooth functioning of the various activities, hospital administration has 6 sections. (i) Human Resources Section, (ii) Secretarial Services Section, (iii) Store and Purchase Section, (iv) Account Section, (v) Engineering & Maintenance Section and (vi) Resident Medical Officer Section.



### 5S System



## (I) Human Resources Section



### Activities

This section looks after the procedural aspects of the human resources development, recruitment, promotion, disciplinary action etc. We have computerised system for maintenance of presence of every employee and leave management of all the

employees. The section also maintains database of various training programmes and the trainees for our human resources requirements as well as the section looks after the general administrative procedures.



## (ii) Secretarial Services Section



### Activities

Secretarial services are provided by this section with the help of ultramodern equipments like computers, copiers, scanners, fax, internet etc. The section also supports all the secretarial

requirements for the organisation of workshops, seminars, conferences, publications of various materials etc.

## (iii) Store and Purchase Section



### Activities

The main duty of this section is to procure necessary consumables, purchase of hospital supplies, medical and research equipments. It also

looks after the maintenance contracts, repairs of minor and major equipments etc.

### (iv) Account Section



#### Activities

Account section looks after the maintenance of accounts, payments of various bills, receiving hospital fees, payment of wages etc. All these

activities are computerised and most of the things are done with the help of computer.



#### 5S System

## (v) Engineering & Maintenance Section



### Activities

Engineering and Maintenance section supports the hospital management by undertaking various civil works, interior decoration, planning and execution of new purchases, construction etc. Electrical engineer and his team looks after the day-to-day maintenance of electrical installations, air-

The hospital management division also deposes employees from the aforesaid sections to attend various programmes arranged by the AMA and

conditioning plants, Window Air Conditioners etc. They also provide support for the maintenance of hospital's in-cable services and maintenance of sound systems in the Cama Hall and for the various programmes arranged by the Institute.

other organisations to update their knowledge about the current practices of their subjects.



## (vi) Resident Medical Officer Section

Dr. Bhalchandra Pandya

Dr. Dhruiti Desai

Dr. Deepak Rathod



### Activities

The services offered by them include: (1) Looks after clinical and supportive services of GCRI and COC, Vasna, (2) Guidance and help patients regarding treatment at GCRI, (3) Help the needy patient to get their treatment at concessional rate as per rules of the institute, (4) Looks after Patient Care and Home Hospice Services in Ahmedabad and at COC, Vasna, (5) Conduct Patient Evaluation Meeting, and (6) Medical help for the health of GCRI staff.

Resident Medical officers are backbone of day to day "Patient Grievances" redressal. They are incharge of various Govt. schemes for providing financial assistance to patients. Our center is largest center receiving Govt. support for BPL patients under "Mukhya Mantri Amrutam Yojana" and 50% concession scheme for people of "Low Income Group".

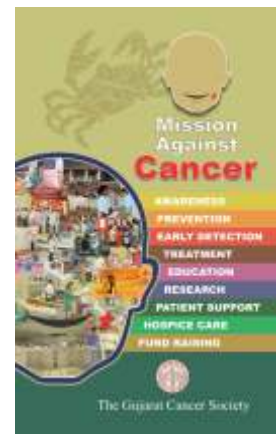


## (J2) Educational Graphics & Medical Photography



**Services :** The department plays an important role in catering all the needs of Photography and Graphics work of the institute for the purpose of clinical, educational and public awareness activities. The department has three qualified graphic artists cum photographers and is equipped with digital in-house production facility of educational material. The annual department workload includes more than 6000 clinical and various institutional activities photographs. Besides this the technical manpower is

contributing their expertise in designing institutional publication and printing materials e.g. designing annual reports, GCS Research Journal and cancer awareness exhibitions. The department is also involved in facilitating preparation of presentation materials and handouts for scientific meetings. The department also participates in all the GCRI/GCS public awareness campaigns.





### (J3) Library



**Services:** Library is the academic nerve center of the institute. It caters to the needs of use with its resources. The regular and selective addition of books and journals to this library has enriched its collection and made it a good reference center particularly in the field of oncology. Through this, library has a vast collection printed and digital books and journals of oncology. Library covers area about 4,450 square feet. GCRI library is well equipped with audio-visual aids, for offline viewing of digital media archive. It also has a separate air-conditioned computer room of users

with 12 computers with broadband and Fiber Optic Internet facilities. Faculties, Researcher, Postgraduate students, Fellows can access online journals and books that are subscribed by the institute through the computers and internet facility provided by the library. GCRI Library provided – Lending service, Reference service, Repography service, Document delivery service (Articles on Request), and Interlibrary loan. Workshop, Conference, Training details, Meetings and Latest arrival in the library are displayed on the Library notice board.

| Details of Work Done   |
|--|
| Individual Reading Room Facilities to Doctors, Staff and Student   |
| Lending service (Book/Journals Issue-Return)   |
| Reference service (New arrival books/Journals, Thesis, Dissertation, Log book, Rare Reference books etc) |
| Reprography service (Xeroxing, Scanning, Printing)   |
| E-mail alert Service for all new events and library updating   |
| Inter library Loan facility  |
| Internet Facility  |

| Details of Work Done   |
|--|
| 12 terminals with LAN connection for access online journals and books that are subscribed by the institute and offline using for digital media   |
| CD/DVD Writing   |
| Document Delivery service (Article on request) and Current awareness services  |
| Literature Search Service: Library professionals are conduct of literature search for the users. The search results are delivered either as hardcopy form or as electronic form to user's desktops |

## Resources in GCRI Library

| Resources   |
|---|
| Books - 605 (2001 onwards)  |
| Back Volumes Journals - 4000 (2001 onwards)   |
| Current 61 National and International Journals  |
| Proquest Online Full text Database with 1260 online Medical Journals  |
| Audio-Video Collection Books and journals - 300 and Special collection on conference report of Live Surgery SELSICON 2011 (71) and HPB Workshop 2012 (11) |
| Softcopy and Hardcopy of Thesis, Dissertation, Logbook-300  |
| Annual report (1972 to onwards) / Statistical data report (1994 onwards)  |
| Question paper on hardcopy and softcopy for DM, MCH, MLT, MD  |
| Softcopy of Clinical Photographs (2009 onwards) and Clinical Meeting (2010 onwards)   |

## Users Details

| Resources                     |
|-------------------------------|
| Users                         |
| Doctors (Faculties) -130      |
| Resident Doctor - 181         |
| Fellow - 19                   |
| Oncology Nursing Member - 375 |
| Clinical Research Staff - 19  |
| GCRI Admin Staff - 110        |
| Visitors                      |

## Digital Library

GCRI library has taken up initiative towards making access to the Open Access Journals and Books related to cancer available online. Wifi facility installed in library and research wing for internet and data sharing. GCRI Library database is managed through SOUL 2.0 software with bar code facilities. The collection of the library is available online through the web OPAC facility of the SOUL 2.0.





# (J4) Nursing Services

Mrs. Mona Darji  
Matron Grade I

Mrs. S.J. Macwan  
Matron Grade I



**Services:** We have diversified the services of nursing to various specialties like Stoma clinic and BMT unit rendering services to the patients as per the requirement and this is the new development in the Nursing department. The future goals are to have trained oncology nurses in maximum numbers and also to train the nursing for further sub-specialties. Also, to standardise the nursing care will help giving quality care to the patients. The senior and junior nursing staff have attended national workshops related to their services.

**Stoma Clinic** is run by trained Enterostomal Therapists, Minaxiben Bhavsar and Nilamben Dave. This is the first Stoma Clinic in Gujarat State started on March 4, 1983. The services offered by the department include: (1) Giving pre-operative counselling to the patients and their relatives, (2)

Before operation, stoma marking to prevent future problem, (3) Selection of the stoma bags according to stoma size and applying on ostomy patients as well as faecal fistula drainage patients, (4) Giving detail instruction and advise about stoma bags and stoma management to patients and their relatives and application of stoma bag, (5) Giving Post operative counselling to patients and their relatives, (6) Keeping detail record of Indoor and Outdoor patients like Colostomy, ileostomy, ileal conduit, faecal fistula and Drainage, (7) Keeping detail record of various types of stoma bags for indoor and outdoor patients, (8) Teaching nursing students about colostomy care and (9) Keeping the records of cancer care patients.

| Details of Work Done       | New Cases | Old Cases |
|----------------------------|-----------|-----------|
| Colostomy Patients         | 136       | 832       |
| Ileostomy Patients         | 56        | 234       |
| Ileal conduit (urostomy)   | 63        | 314       |
| Drain + faecal fistula     | 46        | 27        |
| Stoma bags record          |           |           |
| Total Number of bags given | 11625     |           |

## Major Achievements

**Mrs. Mona Darji**, Matron Grade I won Second Prize and **Mrs. Priti Macwan**, Sahayak Staff Nurse, won First Prize for poster presentation at First Indian Cancer Congress held at New Delhi during November 21-24, 2013.





## (J5) Pharmacy



**Services:** The Pharmacy Wing is functioning in five sections. (i) Main Pharmacy, (ii) Indoor Pharmacy,

(iii) Outdoor Pharmacy, (iv) Paediatric Pharmacy and (v) Sanskar Chowk Pharmacy.

### Activities

About 444 medicines are dispensed from this department. The Pharmacy Computers are linked with all bill collection counters to know the day today availability stock of medicines in pharmacy. Pharmacy services are arranged in such a way that

outdoors patients from OPD can collect their medicines (Tablet/capsules) from ground floor Room No.25, which is just near to cash collection counter. Indoor patients (admitted in wards) and Day Care patients (patient on chemotherapy



treatment) can collect their medicines from second floor (Indoor pharmacy) near to BMT ward Room No. 210. Paediatric patients are supplied medicines from paediatric pharmacy. From Sanskar Chowk Pharmacy all medicines are supplied to OT, Post Operative, Special Room and Radiotherapy patients. It remains opened on working days as well as on holidays from morning 9.00 am to evening 8.00 pm. Requisition of medicines from various departments and wards are dispensed from Main Store – first floor above Annapurna canteen. Delivery of purchased medicines is accepted at Main Store – first floor above Annapurna Canteen. Number of patients under School Health Programme is markedly increased and all medicines are purchased and supplied to them. Special services are provided to special room patients on priority base. Special services are also provided to patients taking treatment under BMT, advance paid patients as

well as post paid patients from various organisation and Central Government employees. Patients under GCS's adoption scheme and GCS's Poor Patient Fund are provided free pharmacy services as per rules of the institute. Patients with BPL card and falling under SC/ST category are supplied costly drugs as well as surgical items / ortho surgical items free of cost. To provide better services to patients the pharmacy services hours are extended and remains open from 8.00 am to 8.00 pm.

Silent billing services are started by pharmacy department in the month of November, 2011. Simultaneous work of billing and dispensing of medicines are now performed by pharmacist on each counter of pharmacy. Markedly reduction noted in queue of patients waiting because of silent billing services.

## (J6) Physiotherapy



### Clinical Activities

The department render services to both indoor and outdoor patients. Indoor services are mainly for postoperative phase who had undergone surgery or for patients who are on ventilators or tracheostomy patients. Outdoor services are mainly consists of preoperative chest physiotherapy, pain relief and rehabilitation. All patients undergoing for major operation are

referred to this department. Electrotherapy has various pain relief modalities. Rehabilitation of paraplegics, quadriplegics, amputees, orthopaedic conditions like total knee replacement, hip replacement, rotationplasty and peripheral nerve injury. The department also treat paediatric group of patients having the above problems by giving them quality of treatment which helps them to live near normal life. The patients of trismus, radiation mucositis, lymphoedema are treated over here.

### Academic Activities

Department arranges clinical teaching lectures for physiotherapy students from different colleges. Observer training is also given. Postgraduate students are doing dissertation under guidance of Dr. Manali Shah, Senior Physiotherapist. Students of nursing and Biomedical engineering are attending the department and get orientation and training.



### Public Services

The department sends many patients to paraplegia hospital or prosthetic department for spinal support. Department also provide mouth opening devices for trismus patients. Department provides gymnasium service to staff members of GCRI for fitness.



## (J7) Prosthesis & Rehabilitation Centre



**Service:** The department prepares artificial limbs and organs. Part of face and other prosthesis mentioned below are made from silicone, acrylic and

sponge (U form sheet). A total of 331 new and 323 follow-up patients were attended the department for prosthesis.

| Details of Work Done | Number |
|----------------------|--------|
| Ear Prosthesis       | 32     |
| Eye Prosthesis       | 27     |
| Nose Prosthesis      | 06     |
| Lip Prosthesis       | 08     |
| Cheek Prosthesis     | 10     |
| Chin Prosthesis      | 06     |
| Forehead Prosthesis  | 07     |
| Neck side Prosthesis | 02     |
| Finger Prosthesis    | 11     |
| Thumb Prosthesis     | 01     |
| Breast Prosthesis    | 211    |

### Academic Activities

The department arranges lecture of plastic surgeons of the subject. MDS students also attend the department and get training of external prosthesis of maxilla facial and rehabilitation. General Nursing students, BSC Nursing students, and MSC Nursing tutors also come to learn about External Prosthesis as it is one of the subjects for the curriculum.



**Before**



**After**

# K. CANCER BIOLOGY

## (K1) Biochemistry Research Division

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Dr. Prabhudas Patel  
Senior Scientific Officer &  
Head

Dr. Jayendra Patel  
Dr. Franky Shah  
Senior Scientific Officers





**Services:** The department is equipped with Spectrophotometer, Centrifuges, Electrophoresis Unit, Gel documentation System, High Performance Liquid Chromatography, Thermal Cycler and Proteomic work station.

| Details of Work Done |         | Number of Tests | Number of Patients |
|----------------------|---------|-----------------|--------------------|
| Serum                | Protein | 305             | 305                |
| Electrophoresis      |         |                 |                    |

### Clinical Activities

Serum protein electrophoresis (SPE) is a test that examines specific proteins, globulins. In this technique serum is placed into agarose gel and exposed to an electric current to separate the serum protein components into five major fractions by size and electrical charge: serum albumin, alpha-1 globulins, alpha-2 globulins, beta globulins, and gamma globulins. SPE is very important in differential diagnosis of multiple myeloma.

### Academic Activities

Theoretical and practical demonstration of various molecular biology and biomedical techniques were carried out for the students who came as observers from various universities. Weekly seminars are also conducted in the division by staff members to discuss recent trends in cancer research.

### Research Activities

The research activities of the division are revolving around the following aspects. Assessment of the role of tobacco habits, various other lifestyle and sociodemographic factors, dietary patterns and interplay of enzymatic and non enzymatic antioxidants in an etiology of tobacco related cancers. Applications of proteomics in cancer research by analysis of 2 dimension maps from serum and cytosolic proteins of patients with various malignancies. The alterations in glycoproteins membrane glycolipids, glycoprotein metabolic enzymes and glycoprotein electrophoretic changes are evaluated to assess their role in diagnosis, prognostication and

management of cancer patients. In addition NF-kB pathway, role of telomeres-telomerase and its components, matrix metalloproteinases and tissue inhibitor of metalloproteinases are studied. Salivary biomarkers in oral cancer, assessment of p53 mutations and its polymorphisms in oral and breast cancers, vitamin D signaling pathway and DNA repair pathway in breast cancer, HPV and angiogenesis in oral and cervical cancer are also studied. A multinational project on 'Immunoscore' a new approach for colon cancer classification is on-going.

### Major Achievements

The division received **Smt. Vibha Mehta Runner-up trophy** for maximum number of publications in the year 2013-2014.

**Ms. Bhairavi Vajaria**, Junior Research Fellow, received Dr. T B Patel Bronze Medal (Young Scientist) for oral paper presentation during Hospital Day Celebrations on May 26, 2014 and won First prize for oral presentation at National Seminar on Biochemistry held at MG Science Institute during December 20-21, 2013.

**Ms. Kinjal Patel**, Junior Research Fellow, won Best Paper Award for oral presentation by Indian Society of Oncology at First Indian Cancer Congress held at New Delhi during November 21-24, 2013.

**Ms. Shruti Patel**, Junior Research Fellow, won First Prize for poster presentation at National Seminar on Biochemistry held at MG Science Institute, Ahmedabad, during December 20-21, 2013.

## (K2) Cell Biology Division

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Dr. Prabhudas Patel  
Senior Scientific Officer &  
Head

Dr. Manisha Brahmhatt  
Dr. Pina Trivedi  
Dr. Dharmesh Patel  
Research Assistants



**Services:** The department is recently equipped with Metafer, automatic metaphase and interphase scanning and capturing system for Karyotyping and FISH (fluorescence In Situ Hybridization) assays. It has fully motorized epifluorescence microscope (Imager.Z2) from Zeiss, Germany with special filter sets for FISH and multicolor FISH. It has IKAROS software for Karyotyping and ISIS software for FISH by Metasystems, Germany. The system also has facility of automatic spot counting for FISH analysis for hematological malignancies and solid tumor using Metacyte software. It has 4 review stations. Moreover, the division also has three other systems from Metasystems, Germany and Cytovision software by Applied Imaging, USA. In addition to Karyotyping, FISH (Fluorescence in situ hybridization), M-FISH (multicolor FISH) and generation of custom made FISH probes from Bacterial artificial chromosomes also provides precise chromosomal breakpoint mapping in leukemia as well as in solid tumor patients. For FISH automation, hybridization and, denaturation chamber (Thermobrite, Vysis, USA) helps in rapid and consistent FISH assays. The facility for multiplex-FISH is first of its kind in the country. Cell Biology Division is equipped with the state of art set up for research in the area of clinical cytogenetics. The division is actively engaged in research on various aspects of chromosomal abnormalities. Major clinical services provided by the division are for diagnosis and prognostication of patients with various hematological malignancies. The services are provided to the GCRI patients as well as other cases referred from various other places.

| Details of Work Done   | Number of Tests |
|--|-----------------|
| Conventional Cytogenetic study of leukemia from bone marrow/peripheral blood | 1382            |
| FISH tests for following genetic rearrangements                              | 1087            |
| Translocation 9;22   | 759             |
| Translocation 8;21   | 114             |
| Translocation 15;17  | 51              |
| Translocation 16;16/inversion 16   | 117             |
| Rearrangements of 5q (two different loci)                                    | 6               |
| Rearrangements of 7q (two different loci)                                    | 3               |
| Copy number of X &/or Y  | 30              |
| Rearrangements of MLL gene   | 4               |
| Translocation 12;21  | 3               |

### Clinical Activities

The division caters extensive clinical cytogenetic services for leukemia patients. It includes karyotype and FISH analysis in CML, AML, and various other hematological malignancies to help diagnosis and prognosis. The department has also initiated solid tumor FISH from FFPE sections. It includes HER-2 neu gene rearrangements in breast cancer, N-MYC gene rearrangements in neuroblastoma, i(12p) gene rearrangements in Germ Cell Tumor and ALK gene rearrangements in NSCLC.

### Academic Activities

The division enrolled graduate and post-graduate students from universities across India for

observership, project work and dissertation. Staff of the division is involved in M.Sc. Cancer Biology course for theory and practical work, initiated by Department of Cancer Biology at GCRI.

### Research Activities

The main research thrust of the division is chromosome analysis of leukemia patients. Chromosomal anomalies are documented at diagnosis and during later stages of the disease, which aids in prognostication and clinical research. Metaphase chromosomes are obtained following short-term cultures of peripheral blood lymphocytes and bone marrow. The novel chromosomal anomalies as per the leukemia subtypes are contributed to existing pool of databases of chromosomal aberrations in leukemia by publishing in national and international journals. Karyotype analysis by GTG banded metaphases is substantiated by locus specific and/or whole chromosome FISH in leukemia and solid tumor, and multiplex-FISH for increased sensitivity of chromosome anomaly detection. Generation of custom made FISH probes from Bacterial artificial chromosomes to identify novel chromosomal breakpoints.

### Major Achievements

The department received **Smt. Vibha Mehta Trophy** for maximum publications for the year 2013-2014.

# (K3) Immunohistochemistry & Flow Cytometry Division

60

Dr. Hemangini Vora  
Senior Scientific Officer & Head

Dr. Nilima Desai  
Junior Scientific Officer

Dr. Kruti Rajvik  
Dr. Shalvi Mehta  
Research Assistants





**Services :** The division is facilitated with Automated Ventana Immunostainers for immunohistochemistry work, BD FACS Canto II eight colour Flow Cytometer for flow cytometry work and Eppendorf Thermal Cycler for molecular biology work.

| Details of Work Done                                  | Number of Tests | Number of Patients |
|---|-----------------|--------------------|
| <b>Clinical Work</b>                                  |                 |                    |
| <b>Immunohistochemistry Work</b>                      |                 |                    |
| Immunohistochemical Markers (72 markers)              | 18257           | 3704               |
| Estrogen and Progesterone receptors (ER/PR)           | 2892            | 1417               |
| Her-2-neu   | 1361            | 1361               |
| <b>Flow Cytometry Work</b>                            |                 |                    |
| Immunophenotyping markers by Flow Cytometry           | 13477           | 963                |
| CD 34 percentage                                      | 116             | 32                 |
| PNH study   | 700             | 55                 |
| Total   | 36803           | 7532               |
| <b>Research Work</b>                                  |                 |                    |
| Immunohistochemical markers                           | 1220            | 270                |
| Markers by Flow Cytometry                             | 1754            | 101                |
| Immunohistochemical markers for MD, MCh dissertations | 320             | 320                |

### Clinical Activities

The division evaluates 72 immunohistochemical markers for differential histopathological diagnosis, and predictive markers such as ER, PR and Her-2-neu in breast cancer. By Flow cytometry 46 markers are being evaluated for immunophenotyping of acute leukemia / CLPDs, and for PNH and CD34 evaluation. The division is NABL accredited for Flow Cytometry work.

### Academic Activities

Cancer Biology department started MSc Cancer Biology in affiliation to Gujarat University in July 2014. The division participates in teaching of MSc Cancer Biology and enrolls PhD students. Post-graduates (MSc/Mpharm) from various universities of Gujarat enrolled for dissertation work and MSc and MDS students as observers.

### Research Activities

The main areas of research include study of PI3K-AKT pathway, and EMT pathway in breast cancer.

Moreover, evaluation of circulating tumor cells and cancer stem cells are evaluated by Flow Cytometry in breast cancer patients. Further, a project is proposed on molecules that influence cancer stem cell niche in breast cancer. Minimal Residual Disease is evaluated by flow cytometry and using molecular markers in B-ALL. EGFR downstream signaling pathway in non-smoker adenocarcinoma of lung and immune dysfunction in oral cancer are also being studied. Based on above research areas 7 research projects are ongoing in our division.

### Major Achievements

**Ms. Sandhya Rasalkar**, Junior Research Fellow, received 2nd prize for presentation at Science Day Celebration on February 28, 2013.

**Ms. Kruti Rajvik**, Research Assistant, received Dr. T.B. Patel Silver Medal for oral paper presentation during Hospital Day Celebration on May 26, 2014.

**Conference/Workshop Organised:** Division has participated in Workshop and CME on Clinical Flow Cytometry held on February 23-24, 2014.

# (K4) Medicinal Chemistry and Pharmacogenomics

62

Dr. Rakesh Rawal  
Senior Scientific Officer

Dr. Apexa Raval  
Research Assistant



**Services:** The department is well equipped with molecular biology facilities and connected to research, education and also provides diagnostics and clinical services. Division is involved in the advanced molecular diagnostic services for Chronic Myeloid Leukemia patients such as detection of BCR-ABL fusion gene, PML-RAR fusion gene using Real Time PCR technology since it is essential for the treatment selection and monitoring of patients.

| Details of Work Done                            | Number of Tests | Number of Patients |
|---|-----------------|--------------------|
| BCR-ABL fusion gene estimation by real time PCR | 921             | 921                |
| PML-RAR fusion gene estimation by real time PCR | 132             | 44                 |

### Clinical Activities

Diagnostic tests for major and minor BCR-ABL fusion and PML-RARa are carried out with advanced molecular techniques to aid in diagnosis and thereafter monitoring of leukemia patients. The lab is involved in the sample collection and the pre RNA extraction process of the clinical trial of Novartis.

### Major Achievement

**Ms. Krupa Shah**, Junior Research Fellow received First Prize for poster presentation in Hemato-oncology section at First Indian Cancer Congress held at New Delhi in November 21-24, 2013.

### Workshops and Seminar Conference

**Organised:** GSBTM Sponsored hands-on training workshop for 14 participants on Human Adult Stem cell was organised on March 11-16, 2013 and Bioconclave 2013 - One day seminar on MD Simulation & QSAR in Drug Design was organised on March 29, 2013.



**First Batch of M.Sc. Cancer Biology July 2013**

# (K4) Molecular Endocrinology Division

64

Dr. Nandita Ghosh  
Senior Scientific Officer & Head

Dr. Trupti Trivedi  
Senior Scientific Officer



**Services:** Besides research and educational activities, the major thrust of the division is to provide routine clinical diagnostic services for cancerous and non-cancerous patients referred to our institute. The diagnostic services includes are analysis of various tumor markers, thyroid and hormone profiles which are performed on Chemiluminescence System Cobas e 411 Immunoanalyser.

| Details of Work Done | Number of Tests | Number of Patients |
|----------------------|-----------------|--------------------|
| AFP                  | 3382            | 1984               |
| B HCG                | 2953            | 1697               |
| CEA                  | 7917            | 6162               |
| PSA                  | 3027            | 1726               |
| CA 125               | 4768            | 3318               |
| CA-19-9              | 2785            | 1510               |
| CA-15-3              | 259             | 53                 |
| FSH                  | 707             | 281                |
| LH                   | 646             | 240                |
| PRL                  | 647             | 223                |
| Estradiol            | 699             | 279                |
| Testosterone         | 505             | 181                |

| Details of Work Done | Number of Tests | Number of Patients |
|----------------------|-----------------|--------------------|
| Cortisol             | 482             | 124                |
| Parathyroid Hormone  | 348             | 143                |
| Vitamin D Total      | 174             | 49                 |
| Growth Hormone       | 359             | 90                 |
| T3                   | 5843            | 4260               |
| T4                   | 5598            | 4262               |
| TSH                  | 7490            | 5858               |
| FT3                  | 866             | 317                |
| FT4                  | 1246            | 724                |
| Thyroglobulin        | 559             | 323                |
| Anti-TPO Ab          | 275             | 119                |
| Total                | 51535           | 33923              |



## Clinical Activities

The Division is NABL Accredited for Special Biochemistry Investigations. At the division, clinical evaluation of total 23 different parameters are being routinely carried out to aid diagnosis and treatment of cancer patients as well as patients with endocrine disorders.

## Academic Activities

The division participates in various academic activities of the institute; weekly seminars of the department, enrolment of PhD students and MSc/MPharm Dissertation students, and Summer Training Programme for MSc/BSc students. Post-graduates from various universities of Gujarat are enrolled for dissertation work and undergraduates as observers for Summer Training Programme. Moreover, the division is actively involved in recently started MSc Cancer Biology course. Lectures and practicals, for students of MSc Cancer Biology are being organized by the division. The division participates in Conferences and CME organized by the Cancer Biology Department.

## Research Activities

Biomarkers are central to detection, diagnosis and management of cancer and hold vast potential for the development of effective new personalized cancer therapies. For this, it is necessary to define

the cumulative genetic events and how genes work, particularly, genomic instability, genes involved in deregulation of signal transduction, transcription factors, cell cycle regulatory and DNA damage and response pathways, and evaluate their clinical relevance. At present, the research activities of this division are focused at studying the clinical relevance of multiple biologic markers by fully exploiting the genetic machinery involved in the initiation and progression of cancer along with tumor microenvironment using recent technologies. In breast and oral cancer, research revolves around the vital role of Jak-Srcs-Stats and cytokine signal transduction pathway mediated by EGFR, DNA damage repair pathways, stem cell markers, their interaction with microRNAs, and subsequently its relevance for patient management. In colorectal cancer, the role of Fas receptor and its ligand, Sparc receptors, vitamin D receptors, Thymidine synthetase and ERCC-1 gene polymorphism will be exploited. The information gained will be valuable for a more reliable estimate of tumor behaviour to predict patients' prognosis, identify individual patients who are at a low risk or high risk of relapse, detection of micrometastasis and monitoring the course of the disease. In thyroid malignancies, the role of cytokines involved in pathogenesis of the disease is exploited. Subsequently statistical analysis of the data is performed.

The Institute is engaged in various types of educational and training programmes, like (L1) Activities of the Scientific Research Committee, (L2) Clinical Research Meetings, (L3) Complementary Training Programme to Formal Education, (L4) Formal Educational Courses, (L5) GCS Research Journal, (L6) Hospital Day Celebration - Research and Educational Aspects, (L7) Professional Training to Doctors and Scientists (Conferences, Workshops), (L8) Professional Training to Paramedics (Technological Courses) and (L9) Staff Training - Intramural and Extramural.

## (L1) Activities of the Scientific Research Committee



The Scientific Research Committee (SRC) functions throughout the year to promote, facilitate and maintain the basic and applied research in the field of cancer under the chairmanship of **Dr. Rakesh Vyas**, Incharge Director and Member-Secretary **Dr. Asha Anand** of the Scientific Research Committee. All the research activities were scrutinised, approved and monitored by the Scientific Research Committee and also by the Ethics Committee, both of which met regularly every alternate months or earlier, if needed. At the SRC meeting, scientific details and other routine issues are discussed. The office bearers of Scientific Research Committee also met in the year several times as and when required.

At the annual meeting, in the presence of invited experts, all the new proposals as well as the ongoing projects were discussed and were approved with budgetary recommendations. At the 6 monthly meeting, new and ongoing projects were

also discussed and approved for continuation.

Annual Meeting of the Scientific Research Committee was held once. However, there were as a part of the scientific review committee, 3 scientific meetings (June 26, October 17, 2013 and January 17, 2014) were held. The Ethics Committee Meetings (July 6, October 26, 2013 and January 25, 2014) were held under the chairmanship of Hon'ble Justice **Shri Bankim Mehta** and Member-Secretary **Dr. Narendra Patel**. Invited members were **Dr. Shilin Shukla, Shri Narayanbhai Patel, Dr. Asha Anand, Dr. Pankaj Shah, Dr. Kirti Patel, Shri Kshitish Madanmohan, Dr. Ushaben Shukla, Shri Madhav Ramanuj, Dr. Anila Kapadia, Smt. Bhadraben Doshi, Shri Ushakantbhai Shah, Dr. Prabhudas Patel and Dr. Hemangini Vora.**

## (L2) Clinical Meetings

Regular bimonthly academic and scientific clinical meetings are arranged at Cama Hall, GCRI, on 2<sup>nd</sup> and 4<sup>th</sup> Saturdays. **Dr. Rakesh Rawal**, Senior Scientific Officer, is the coordinator of this activity and during the year, a large number of clinical and

research subjects are discussed. Total 14 Clinical presentations, 12 Journal presentations, and 12 Mortality Morbidity Case Meeting were discussed at the Clinical Meetings from April 2013 to March 2014.

### (L3) Complementary Training Programme to Formal Education

GCRI allows its infrastructural facilities and educative talent to be used by other educational institutions to give professional training to their students, who come for observership, fellowship,

project work, dissertation work, PhD work, apprenticeship, etc. Total 1224 students from 86 institutions had taken benefit of learning and training facility and opportunity provided by us.

### (L4) Formal Educational Courses

The institute is affiliated to the BJ Medical College and Gujarat University, Ahmedabad, for subspecialty teaching in the subjects of Medical and Surgical Oncology (DM and MCh courses) as well as postgraduate teaching in subjects like Pathology, Radiodiagnosis, Gynaecological

Oncology, Anaesthesiology and Radiotherapy (MD, DCP, DMRE, DA courses). The Institute is also recognized for MSc in Cancer Biology and PhD degree from Gujarat University (Life Sciences and Medical Microbiology) and MS University (Biochemistry).

### (L5) GCS Research Journal

As GCS Research Journal, academic and research work of Research Divisions and Clinical Departments of the Gujarat Cancer and Research

Institute regularly published by GCS. **Dr. Asha Anand, Dr. Pariseema Dave** and **Dr. Nandita Ghosh** were the editors of the bulletin.

### (L6) Hospital Day Celebration

Eminent National Scientists were honoured with Dr. T. B. Patel Oration Award and Shri Ramniklal J. Kinarivala Cancer Research Award. Young Scientists, Clinical Departments and Research Divisions were encouraged with Dr. T. B. Patel Research Medals, Smt. Vibha Mehta and Smt. Vimla Agrawal Rotating Trophies. Shri Madanmohan Ramanlal GCRI Luminary Award is created by the Gujarat Cancer Society with generous donation from Madanmohan family for Senior GCRIan for his valuable contribution to GCRI.

The Hospital Week celebrated on April 19 and 26, 2014 with a festive and jubilant mood. The main events included scientific awards, orations and felicitations in the field of Cancer Research, GCRI Luminary Oration and cultural programme by the staff members. **Shri Pankaj R. Patel**, Chairman GCS-GCRI, was the Chief Guest and **Shri Rajesh Kishore**, IAS, Additional Chief Secretary, Health and Family Welfare, GOG, and **Shri P. K. Taneja**,

Chief Secretary and Commissioner of Health, GOG, were the guest of honour for this occasion. The following were the awardees:

**Dr. T. B. Patel Oration awarded to Dr. Shyam Kishore Shrivastav**, Professor and Head Radiation Oncology, TATA Memorial Hospital, Mumbai. He delivered a lecture on Challenges in Oncology: 'Professionalism, Ethics and Practice'.

**Late Shri Ramniklal J. Kinarivala Cancer Research Award conferred to Dr. Nita Singh**, Professor of Department of Biochemistry, AIIMS, New Delhi. She delivered a lecture on 'Human Papilloma virus and cervical cancer pathogenesis'.

**Shri Madanmohan Ramanlal GCRI Luminary Award conferred to Dr. M. T. Bhatia**, Former Head of Anaesthesiology, GCRI, for his valuable contribution to GCRI and in his discipline Anaesthesia.

## Hospital Day Celebration



Dr. T. B. Patel Oration awarded to Dr. Shyam Kishore Shrivastav, Professor and Head Radiation Oncology, TATA Memorial Hospital, Mumbai



Late Shri Ramniklal J. Kinarivala Cancer Research Award conferred to Dr. Nita Singh, Professor of Department of Biochemistry, AIIMS, New Delhi



Shri Madanmohan Ramanlal GCRI Luminary Award conferred to Dr. Mohan T. Bhatia, Former Head of Anaesthesiology, GCRI



## Dr. T. B. Patel Research Medals awarded to Junior Scientists

|              | Clinical Wing                        | Research Wing  |
|--------------|--------------------------------------|--|
| Gold Medal   | -                                    | -  |
| Silver Medal | Dr. Amita Jansari<br>Anaesthesiology | Dr. Kruti Rajvik<br>Immunohistochemistry & Flow Cytometry Division |
|              |                                      | Ms. Heena Chuahan<br>Cell Biology Division                         |
| Bronze Medal | Dr. Bhavesh Gohil<br>Microbiology    | Ms. Bhairavi Vajaria<br>Biochemistry Research Division             |
|              |                                      | Ms. Toral Kobawala<br>Molecular Endocrinology Division             |



Dr. Amita Jansari, Anaesthesiology



Dr. Kruti Rajvik, Immunohistochemistry & Flow Cytometry Division



Ms. Heena Chuahan, Cell Biology Division



Dr. Bhavesh Gohil, Microbiology



Ms. Bhairavi Vajaria, Biochemistry Research Division



Ms. Toral Kobawala, Molecular Endocrinology Division

## Vimla Agrawal and Vibha Mehta Trophies



Vimla Agrawal Trophy **(Clinical Department)**  
for maximum Publications Anaesthesiology



(First Runner Up)  
Medical Oncology



Vibha Mehta Trophy **(Research Division)**  
for maximum Publications Cell Biology Division



(First Runner Up)  
Biochemistry Research Division

## Cultural Activity by GCRI Staff Member





## (L7) Professional Training to Doctors and Scientists (Conferences, Workshops)

As a part of professional training efforts several scientific meets were organised during the year. Some of them are joint efforts with the professional bodies.

| No. | Workshop/ Conference  | Organisers  | Date                                     |
|-----|---|---|--|
| 1   | IAPC Certificate course Essentials of Palliative  | Dr. Geeta Joshi<br>Department of Pain & Palliative          | June 21-23, 2013<br>December 14-16, 2013 |
| 2   | PICC and Central Venous Access Grosshong Central Venous Catheter and Peripheral Port insertion Workshop | Dr Priti Patel<br>Dr Jayshree Thakkar<br>Dr Bipin Patel     | August 17, 2013                          |
| 3   | Her2 Testing Excellence (SPHERE)  | Dr. Biren Parikh<br>Dr. Manoj Shah                          | October 5, 2013                          |
| 4   | The Ahmedabad Cancer Registry Advisory Committee (ACRAC) Meeting  | Dr. Parimal Jivrajani                                       | October 15, 2013                         |
| 5   | CME in Cytopathology  | Dr. Trupti Patel<br>Dr. Manoj Shah                          | October 18, 2013                         |
| 6   | CME in Medical Oncology   | BJ Medical College and<br>Department of Medical<br>Oncology | February 12, 2014                        |
| 7   | Clinical Flow Cytometry   | Dr. Biren Parikh<br>Dr. Beena Brahmhatt<br>Dr. Manoj Shah   | February 22-23, 2014                     |
| 8   | Science Day Celebration   | Dr. Rakesh Rawal  | February 27, 2014                        |

## (L8) Professional Training to Paramedics (Technological Courses)

Medical laboratory technology is one of the largest and most important professions that provide allied healthcare. The Technicians are skilled scientist who perform test that aid in the diagnosis and treatment of diseases. As vital member of the healthcare team, they assist physician during diagnosis and treatment of patients.

The main objective of the course is to train technologists and help them to get ample opportunities in a variety of laboratory setting. As there is a healthy demand of well qualified medical laboratory technologist, they can get placements in hospitals and laboratory settings public health facilities, industrial laboratory and in colleges. Incharge Director Dr. Rakesh Vyas is the chairperson, and Dr. Priti Trivedi, Professor of Pathology is the Coordinator of the course. All the doctors of the Pathology (12), Microbiology (2) and Blood Bank (3) are involved in the teaching

activities. All junior and senior technologists are involved in the practical training of the students.

It is one year full time course. BSc Microbiology and Biochemistry students are eligible for the course. Total fifty students are selected on the base of BSc results and entrance test results.

MLT course of training is divided in to two parts: Theory and Practicals. Total 80 lectures are taken by the teaching staff doctors to cover the subject. So far practicals are concerned, each students has two months rotation in each subspecialty like Blood bank, Haematology, Biochemistry, Microbiology (clinical Microbiology and Immunology), Cytology and Histology. Each student has to work with a technologist on each table in the course of each single rotation where they are given adequate technical knowledge. Students are also expected to complete all the practical's and prepare a journal which at the end of the rotation must be signed by a

senior doctor. They have to submit feedback form which includes their work efficiency, sincerity and regularity. This form is filled up by technologist and incharge doctor at end of each rotation. There are two types of assessment of the students, day to day assessment and regular assessment at the end of the year in form of theory and practical examination.

All the teaching activities, MLT course exam schedules and MLT course related activities are monitor by Coordinator. Coordinator reports all the activities of MLT course to the Chairperson and Co-chairpersons regularly.

### (L9) Staff Training - Intramural and Extramural

As a part of staff training, nursing and other staff was also exposed to systemic training programme that related to hospital infection control. This year 2 doctors and 13 other staff members of our

Institute were given support and encouraged for training. The training areas included Review Course and Scientific Workshops.

| No. | Name, Designation, Division/ Department   | Date                             | Event  |
|-----|---|----------------------------------|--|
| 1   | Ms. Ila Zalavadia, Staff Nurse<br>Ms. Kiranben Kharadi, Head Nurse<br>Ms. Celina Christian, Staff Nurse | June 10-11, 2013                 | HIV/AIDS Training,<br>College of Nursing,<br>Civil Hospital, Ahmedabad   |
| 2   | Ms. Bhavna Trivedi, Staff Nurse<br>Ms. Minaxi Rathod, Staff Nurse<br>Ms. Kajal Brahmhatt, Staff Nurse   | June 12-13, 2013                 |  |
| 3   | Mrs. Jyotsna Turner, Staff Nurse<br>Ms. Hemangini Dave, Staff Nurse                                     | January 6-11, 2014               |  |
| 4   | Mrs. Usha Patel, Staff Nurse<br>Mrs. Jayshree Shah, Staff Nurse   | January 20-25, 2014              |  |
| 5   | Mrs. Rekha Patel, Staff Nurse<br>Mr. Samir Shaikh, Sahayak Staff Brother                                | January 27 –<br>February 1, 2014 |  |
| 6   | Dr. Kalpesh Mecwan<br>Pain and Palliative Medicine  | July 1 – August 15, 2013         | Training in Palliative Medicine  |
| 7   | Ms. Sangita Dabhi<br>Sahayak Staff Nurse  | August 1-3, 2013                 | Refresher Training Programme,<br>IHBT Department,<br>Civil Hospital, Ahmedabad   |
| 8   | Dr. Franky Shah<br>Senior Scientific Officer,<br>Biochemistry Research Division                         | December 9-13, 2013              | National Training Programme on<br>Entrepreneurship Development and<br>Management for Scientists and<br>Technologists in Government Sector<br>sponsored by<br>Department of Science & Technology,<br>Govt. of India |



## M. COMMUNITY ONCOLOGY CENTRE (COC)

Hariganga Dwarkadas Cancer Detection and Hospice Centre  
Lion Bharat Kshatriya Community Oncology Centre, Vasna



The Community Oncology Centre is created with the help of generous donation from Late Shri Rajendrabhai Dwarkadas Thakore and Lion Bharat Kshatriya. It is a unique centre of its kind for last 20 years. Its initially area of work was hospice activity. For last 12 years its activities have increased in preventive and diagnostic work. Functioning of this centre is different from other hospitals. Its main emphasis is based on community related work: academic, research, preventive etc. We can divide the activities of this centre as under:

- Care of terminally ill patients as a part of hospice
- Cancer awareness permanent exhibition for school and college children in particular and public at large
- Lecture avenue and lecture hall for the cancer awareness functions
- Health check up scheme for early detection of cancer
- Breast cancer help-line for all the queries arising from State of Gujarat as regards early detection and treatment of breast cancer
- Social and cultural activities of the Institute and Society
- Madan Mohan Ramanlal Urban Health Centre
- Cancer Control Activities

## Education and Awareness

We all know cancer is a very complicated and challenging disease. Its incidence has increased with modern life style, particularly oral cavity cancer problem has increased because of the habits like tobacco chewing and smoking. It is important to bring awareness in the community, particularly school and college going students, so they may know the hazards of tobacco and smoking. We have

a permanent exhibition of cancer that educates the society and gives scientific information of the disease and also warns against tobacco and smoking. Last year total 8416 visitors viewed our exhibition. They include medical and paramedical students, nursing students, teachers and tutors, different NGOs of the state etc.

### Names of Schools, Colleges, Institutions, NGOs and other organizations who visited COC during the year 2013-2014

| No. | Details of Schools      |
|-----|-------------------------|
| 1   | F.D. School             |
| 2   | A One School            |
| 3   | Digvijay School         |
| 4   | Divanballubhai School   |
| 5   | Diwine Life School      |
| 6   | I.P. Mission School     |
| 7   | Jay Somnath High School |
| 8   | Sri Ganesh High School  |

| No. | Details of Schools                  |
|-----|-------------------------------------|
| 9   | Ruth Memorial School                |
| 10  | Anand Niketan School                |
| 11  | Geeta High School                   |
| 12  | Nutan Adarsh High School            |
| 13  | Shri V.K. Patel High School, Aslali |
| 14  | U.M. Bhagat School                  |
| 15  | S.H. High School of Comm, Dholka    |



| No. | Details of Colleges             |
|-----|---------------------------------|
| 1   | H.L. College                    |
| 2   | Gujarat Arts & Commerce College |
| 3   | S.L. Arts College               |
| 4   | Bhavans College                 |

| No. | Details of Colleges                            |
|-----|--|
| 5   | Ahmedabad Arts & Commerce College              |
| 6   | C.U. Shah Arts & Commerce College              |
| 7   | R.J. Shah Science College                      |
| 8   | G.L.S. (Smt.M.R. Parikh) Institute of Commerce |

| No. | Details of Medical & Para-Medical Institutes |
|-----|--|
| 1   | AMC Met Medical College - LG                 |
| 2   | N.H.L. Municipal Medical College             |
| 3   | Ahmedabad Homeopathic Medical College        |
| 4   | Manav Nursing School - Visnagar              |
| 5   | Shahjanand College of Nursing                |
| 6   | Joitaba College of Nursing                   |
| 7   | R.R. Patel Nursing College                   |
| 8   | M.M. Singhi Nursing College                  |
| 9   | Govt. School of Nursing, Surendranagar       |
| 10  | Govt. School of Nursing, Siddhpur            |
| 11  | S.S. Agrawal Nursing School                  |
| 12  | Gen. Nursing, Himatnagar                     |
| 13  | Shrey Institute of Nursing                   |
| 14  | Management Academy For Health care           |
| 15  | Mother Teresa Nursing College                |
| 16  | Soham School of Nursing                      |

| No. | Details of N.G.Os                  |
|-----|------------------------------------|
| 1   | Sewa                               |
| 2   | Sanchetana-Khambhat Lioness Group  |
| 3   | Ladol Group                        |
| 4   | Kadava Patidar Samaj               |
| 5   | Ranchhodray Laughing Club          |
| 6   | St. Xaviers Social Service Society |

| No. | Details of Medical & Para-Medical Institutes |
|-----|--|
| 17  | Vraj Institute of Nursing                    |
| 18  | G.N.M. Nursing College, Junagadh             |
| 19  | Gen. Hospital of Nursing, Palanpur           |
| 20  | Grow More Institute of Nursing               |
| 21  | J.G. School of Nursing                       |
| 22  | Chanchalben Mafatlal College of Nursing      |
| 23  | Globe Hospital School of Nursing             |
| 24  | Nursing College, Pansar                      |
| 25  | Nursing College Civil                        |
| 26  | C.M. Patel Nursing College                   |
| 27  | Medilink Institute of Nursing Science        |
| 28  | R.G. Patel Nursing Civil                     |
| 29  | Nutan College of Nursing                     |
| 30  | Dinsha Patel College of Nursing              |
| 31  | Govt. College of Nursing, Dharpur, Patan     |
| 32  | Victoria Jubilee Nursing College             |

| No.   | Details of N.G.Os                         |             |
|---|---|-------------|
| 7   | Agakhan Youth & Sports Board for India    |             |
| 8   | Vrutika Sewa Sangh                        |             |
| 9   | C.R.P.F. Group Gandhinagar                |             |
| 10  | Bharat Vikas Parisad                      |             |
| 11  | Alert Group Bhrahmi Sundari Sahili Circle |             |
| <b>Total Education and Awareness Exhibition</b> |   | <b>8416</b> |

## Cancer related Health Check up

Several warning signals of cancer are known. They often herald presence of disease in an advanced stage. Cancer is curable or prolonged survival is possible only if the disease is detected in its early stage. Moreover, certain common cancer problems of our country are preventable or curable, e.g. oral cavity cancer, breast cancer and cancer of cervix. We are running cancer related health check up programme at this centre for last 12 years for early detection of cancer like oral cavity cancer, breast cancer, and cancer of cervix.

Daily average 30 people take advantage of this activity, especially the middle class of the society. We do it at a concessional price of Rs. 500 only. Regular Health Check-ups are carried out for early detection of cancer at this centre. Different diagnostic facilities for Cancer Screening are also available i.e. mammography, X-rays, sonography, pap smear, FNAC, biopsy etc.

## Cancer related Health Check up



Reception Window



ECG



Pathology Lab



Mammography

## Health Check Up : Doctors Panel

| Gynaecologists     | Physicians           | Surgeons            | Pathologists         | Radiologist    |
|--------------------|----------------------|---------------------|----------------------|----------------|
| Dr. Bina Patel     | Dr. Mustufa Rangwala | Dr. Jayesh Patel    | Dr. Rashida Rangwala | Dr. Tejal Shah |
| Dr. Vaishali Desai | Dr. Darshan Parikh   | Dr. Darshit Dalal   | Dr. Shital Shah      | Resident Dr    |
|                    | Dr. Sanjeev Anand    | Dr. Umank Tripathi  | Dr. Jayshri Joshi    |                |
|                    | Dr. Venil Shah       | Dr. Shailesh Patel  |                      |                |
|                    |                      | Dr. Deepak Rathod   |                      |                |
|                    |                      | Dr. Hemant Shukla   |                      |                |
|                    |                      | Dr. Ashok Patel     |                      |                |
|                    |                      | Dr. Mahesh Patel    |                      |                |
|                    |                      | Fellow Surgeon:GCRI |                      |                |



Details of number of persons examined, various tests and imaging studies performed and detection of cancer cases in a year from April 2013 to March 2014 are as under:

| Total Health Check-up |                      |
|-----------------------|----------------------|
| Mammography           | 4928                 |
| X-ray                 | 7326                 |
| Pap Smear             | 5306                 |
| VIA Test              | 2775<br>8 Malignancy |
| FNAC of Breast Tumor  | 16<br>5 Malignancy   |
| Malignancy detected   | 78                   |

## Hospice

At the COC, terminally ill patients with cancer are given shelter, warmth and palliative care as a part of hospice service. The patients are referred to us by cancer clinicians. Emergency services like Ryle's Tube insertion, catheterization, pain relief, IV injection treatment etc. are being provided. A beautiful environment is provided and all efforts are made to ease their suffering and make their life

comfortable in the small huts with all facilities. Their entertainment is specially looked after. We developed 1<sup>st</sup> hospice centre of its kind in India at COC in 1990 with capacity of 10 beds. Last year 114 patients were admitted and 33 patients died. Average stay of the patients at Hospice Centre is 10-12 days and average income from hospice facility is around Rs. 2500/- month.



As a part of Community Service and to serve larger section of people, Gujarat Cancer Society along with Indian Institute of Management, Ahmedabad Municipal Corporation and Akhand Jyot Foundation has developed Madanmohan Ramanlal Urban Health Centre. The activity of Urban Health

Centre include (1) Family Planning Services, (2) Vaccination Centre, (3) DOT Centre, (4) Anti- natal Care Centre, and (5) Leprosy Centre.

Through various activities mentioned above as well as participation in the HPV vaccine trial of WHO, the Centre is active in Cancer Control Programme.

Hospice Admission

114

Patient Expired

33

## CANCER DETECTION CAMPS, CANCER AWARENESS EXHIBITIONS, SANJEEVANI RATH CAMPS AND BLOOD DONATION CAMPS

GCRI organizes regular cancer detection camps and cancer awareness exhibition in various parts of the state.

### Cancer Awareness Exhibition Camps: 5 Places and 6 Camps

- Bosch Rexroth Limited, Sanand (10/08/2013);
- Senate Hall, Gujarat University, Ahmedabad (18/10/2013)
- Raksha Shakti University, Ahmedabad (23/11/2013)
- St. Xavier's & Loyola School, Ahmedabad (19/01/2014, 20/01/2014)
- Samvedana Trust, Nava Vadaj, Ahmedabad (22/01/2014)

### Cancer Detection Camps: 20 Places and 24 Camps

- General Hospital, Balasinor, Kheda Town Hall, Jamnagar (23/04/2013)
- Shree Vallabhacharyaji Trust, Maninagar, Ahmedabad (04/05/2013)
- ASA clinic, Visnagar, Mehsana (06/05/2013);
- Kalpataru Power Transmission, Gandhinagar (26/05/2013)
- New Parmeshwarpark, Asarwa, Ahmedabad (31/05/2013)
- Revabai General Hospital, Sardhav, Gandhinagar (16/06/2013)
- 311, Field Hospital, Army Campus, Ahmedabad (05/08/2013, 07/08/2013)
- G.K General Hospital, Bhuj (09/08/2013)
- Bharuch Welfare Hospital, Bharuch (01/09/2013)
- Gayatri Shaktipith Mandir, Kalol (28/09/2013)
- Airforce Station, Wadsar, Gandhinagar (09/10/2013, 25/10/2013)
- Lana Dholka (15/11/2013)
- Village Jalisana, Mandal, Ahmedabad (04/01/2014)
- Head Quarters Sector 11, Gandhinagar (12/01/2014)
- 311, Field Hospital, Army Campus, Ahmedabad (16/01/2014, 17/01/2014, 18/01/2014);
- K.B. Patel General Hospital, Chanasama, Patan (19/01/2014)
- Village-Rajoda, Bavla, Ahmedabad (01/02/2014)
- Village-Patna, Kuva, Dehgam, Gandhinagar (26/02/2014)
- Mangalam Hospital, Sabarmati, Ahmedabad (04/03/2014)
- Manav Kalyan Foundation, Khodiyar Nagar, Noblenagar, Ahmedabad (18/03/2014)

### Sanjeevni Rath Camps: 24 Places and 26 Camps

- Sola Civil Hospital, Ahmedabad (06/04/2013)
- 52 Patidar Samaj, Lunawada, Panchmahal (14/04/2013)
- Subu yuva Kendra Nobalnagar, Ahmedabad (07/11/2013)
- Urban Health Center, Vasna, Ahmedabad (13/12/2013)
- R.R General Hospital, Limbadi, Surendranagar, (05/01/2014)
- Urban Health Center, Saijpur, Ahmedabad (10/01/2014)
- Sir Pratap High School, Ider, Sabarkantha (17/01/2014)
- Dhanvantari Hospital, Bapunagar, Ahmedabad (20/01/2014)
- Urban Health Center, Rakhial, Ahmedabad (24/01/2014)

- Rotary Club, Gandevi, Navsari (26/01/2014, 27/01/2014, 28/01/2014)
- Gayatri Vidhyalay, Tharad, Banaskantha (02/02/2014)
- Urban Health Center, Baherampura, Ahmedabad (07/02/2014)
- Taluka Panchayat Kacheri, Kalol, Gandhinagar (16/02/2014)
- Potaliya Urban Health Center, Bapunagar, Ahmedabad (21/02/2014)
- General Hospital, Jamkhambhaliya, Devbhumi Dwarka, (25/02/2014, 26/02/2014)
- General Hospital, Dahod, Panchmahal (27/02/2014)
- General Aastha Hospital, Amreli (02/03/2014)
- Bhaipura Urban Health Center, Ahmedabad (07/03/2014)
- Air Force, Gandhinagar (08/03/2014);
- Santokba General Hospital, Dholka (12/03/2014)
- Dhanvantari Hospital, Bapunagar, Ahmedabad (15/03/2014)
- Kashiba General Hospital, Vatva, Ahmedabad (21/03/2014)
- Chirayu Hospital, Naroda, Ahmedabad (29/03/2014)
- Jyoti Hospital, Visnagar, Mehsana (30/03/2014)

### Blood Donation Camps: 93 Places and 98 Camps

- Balkrishna Textile, Narol, Ahmedabad (04/04/2013)
- Karnavati Processors, Narol, Ahmedabad (8/04/2013)
- Ayodhya Dham, Maninagar, Ahmedabad (14/04/2013)
- Dr. Rasiklal Sarvjanik Hospital, Modasa (17/04/2013)
- Vaibhav Hall, Ghodasar, Ahmedabad (21/04/2013)
- Bhafaiya Hanuman, Limdi, Surendranagar (24/04/2013, 25/04/2013)
- Dhananjay Bunglows, Satelite, Ahmedabad (28/04/2013, 17/11/2013)
- Rajkot Skoda Show Room (18/05/2013, 18/10/2013)
- Panje Sahid, Bhavans College, Khanpur, Ahmedabad (19/05/2013)
- Ahmedabad City SBI Branch (24/05/2013)
- Bharat Petroleum, Hariyala, Kheda (31/05/2013)
- Niki Hospital, Sector 29, Ghandhinagar (02/06/2013, 01/09/2013)
- Lohana Mahajan Vadi, Ved Mandir, Kankariya, Ahmedabad (02/06/2013)
- Ghachiram Chaudhri Bhavan, Opp. Ghevar Complex, Ahmedabad (09/06/2013)
- CTM. Amraivadi, Ahmedabad (09/06/2013)
- GCRI, Ahmedabad (14/06/2013)
- Vatrak General Hospital, Vatrak, Sabarkantha (15/06/2013)
- Jadar, Idar (23/06/2013)
- Om Foundation Blish International School, Mansa (23/06/2013)
- Senior Citizen, Naroda, Ahmedabad (23/06/2013)
- Ambikanagar, Odhav, Ahmedabad (23/06/2013)
- Nakoda Medical Trust, Shree Swaminarayan Temple, Maninagar, Ahmedabad (18/10/2013, 30/06/2013)
- Jain Youth Group, Nirnaynagar, Ahmedabad (07/07/2013)
- Ahmedabad City Homeguards, Lal Darwaja (14/07/2013)
- Ahmedabad City Jain Manav Seva Samaj, Jain Manav Sevashram, Shahibaug, Ahmedabad (21/07/2013)
- Mota Mandir, Limdi, Surendranagar (22/07/2013)
- Vadodara Boys Hostel M.S. University (28/07/2013)
- Chhotalal Ni Chowl, Odhav, Ahmedabad (28/07/2013)
- Gandhinagar Bapu Knowledge College (01/08/2013)
- Vinus Park Land, Vejalpur (04/08/2013)

- Ghuma Bopal (29/12/2013)
- Niki Hospital, Sector 29, Ghandhinagar (02/03/2014)
- Nakoda Medical Trust, Shree Swaminarayan Temple, Maninagar, Ahmedabad (09/02/2014)
- B.D. Rav Sanskrutik Sankul, Poojan Party Plot, Bhuyangdev, Ahmedabad (02/01/2014)
- Gujarat Convention Hall, Helmet Circle (02/01/2014)
- Madhuvan Party Plot, Gandhinagar (05/01/2014)
- Social Group, Jarwala, Patdi, Surendranagar (12/01/2014)
- Yuva Morcha BJP Sangh, Jamalpur Shala No. 11, Ahmedabad (22/01/2014)
- Yuva Morcha BJP Sangh, Indiranagar Part 2, Ahmedabad (23/01/2014)
- Patdi, Surendranagar (23/01/2014)
- Yuva Morcha BJP Sangh, Dhrangadhra, Surendranagar (24/01/2014)
- Kalyan Prushti Haveli, Vastrapur, Ahmedabad (26/01/2014)
- Panchot, Mehsana (26/01/2014)
- Baba Amarnath Mandir, Viratnagar, Odhav, Ahmedabad (26/01/2014)
- IIM, Vastrapur (26/01/2014)
- Gujarat Vidhyapith, Ahmedabad (30/01/2014)
- Krishna Kanaiya Com, Madhupura Chowk, Ahmedabad (30/01/2014)
- Sarva Vidhyalay, Kadi, Mehsna (01/02/2014)
- Saibaba Mandir, Sardar Chowk, Krushnagar (02/02/2014)
- Future Solution, Honey House, Shyamal Cross Road, Ahmedabad (09/02/2014)
- Bhavsar Society, Jawahar Chowk, Sabarmati, Ahmedabad (16/02/2014)
- Babu Knowledge College, Vasan (18/02/2014)
- Lakroda Prathmik Shala, Lodra Gam (26/02/2014)
- RP High School, Vanthvadi, Mehmabad, Kheda (20/12/2013)
- Deshi Lohana Samaj, Kankariya, Maninagar, Ahmedabad (22/12/2013)
- Delvada High School, Mansa (24/12/2013);
- Bilasiya School, Naroda - Dehgam Highway (29/12/2013)
- Ghuma Bopal (29/12/2013)
- Niki Hospital, Sector 29, Ghandhinagar (02/03/2014)
- Nakoda Medical Trust, Shree Swaminarayan Temple, Maninagar, Ahmedabad (09/02/2014)
- B.D. Rav Sanskrutik Sankul, Poojan Party Plot, Bhuyangdev, Ahmedabad (02/01/2014)
- Gujarat Convention Hall, Helmet Circle (02/01/2014)
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- Patdi, Surendranagar (23/01/2014)
- Yuva Morcha BJP Sangh, Dhrangadhra, Surendranagar (24/01/2014)
- Kalyan Prushti Haveli, Vastrapur, Ahmedabad (26/01/2014)
- Panchot, Mehsana (26/01/2014)
- Baba Amarnath Mandir, Viratnagar, Odhav, Ahmedabad (26/01/2014)
- IIM, Vastrapur (26/01/2014)
- Gujarat Vidhyapith, Ahmedabad (30/01/2014)
- Krishna Kanaiya Com, Madhupura Chowk, Ahmedabad (30/01/2014)
- Sarva Vidhyalay, Kadi, Mehsna (01/02/2014)
- Saibaba Mandir, Sardar Chowk, Krushnagar (02/02/2014)
- Future Solution, Honey House, Shyamal Cross Road, Ahmedabad (09/02/2014)
- Bhavsar Society, Jawahar Chowk, Sabarmati, Ahmedabad (16/02/2014)
- Babu Knowledge College, Vasan (18/02/2014)
- Lakroda Prathmik Shala, Lodra Gam (26/02/2014)



- Shree Ram Foundation, Shahibag, Ahmedabad (27/02/2014)
- L.M. Pharmacy College, Ahmedabad (04/03/2014)
- Motibhoyan Gam, Kalol, Gandhinagar (07/03/2014)
- Jodhpur Cross Road, Ratnamani Complex, Ahmedabad (09/03/2014)
- Om Shantinagar - Part 2 Flat Association, Lambha Cross Road (09/03/2014)
- Mahagujarat Industrial Estate, Moraiya, Sanand, Gandhinagar (10/03/2014)
- Crystal Cast Pvt Ltd, GIDC, Vatva (15/03/2014)
- Manav Utthan Foundation, Khodiyarnagar-1, Nobalnagar, Ahmedabad (18/03/2014)
- Shrinanadnagar, Vejalpur, Ahmedabad (23/03/2014)
- Aaska Aligan, Gota, Ahmedabad (30/03/2014)

**COMMUNITY LECTURES BY STAFF**

The doctors of Gynaecological Oncology, Surgical Oncology and Medical Oncology gave public lectures and TV Talks on cancer awareness and

early detection at numerous places on various occasions and at cancer detection camps.



## International Hospice and Palliative Care Day

International Hospice and Palliative Care Day was celebrated on October 12, 2013 at Community

Oncology Centre, Vasna with participation of Hospice patients and staff.



## Global Hand Hygiene Day

We hosted “Global Hand Hygiene Day” on October 15, 2013. Presentation on Health Care associated

infections and prevention as well as video presentation on Hand Hygiene was given.





## Rakshabandhan

Rakshabandhan celebrated with paediatric and

adult cancer patients at GCRI on August 17, 2013



## National Cancer Awareness Day

On the eve of National Cancer Awareness Day on November 7, 2013, Cancer Detection and Awareness Camp was organized at Noble Nagar, Ahmedabad. The exhibition theme centered on early detection, warning signals and prevention of breast, cervix and oral cancer. Exhibits depicting warning signals, and ill effects of tobacco were displayed on site. Senior clinicians from Surgery, Radiology and Gynec oncology department of GCRI

were actively involved in screening. Sanjeevani Rath was also made available on site for mammography and consultation. Total 38 individuals were screened during the camp. Among them 1 was identified to be early oral lesion in a female and two were having suspicious breast anomalies and referred to GCRI for further evaluation.



## World's Cancer Day

February 4, 2014 is celebrated as World Cancer Day every year. This year the theme was on 'Reduce stigma and dispel myths about cancer' under the tagline 'Debunk the myths'. G.C.R.I. and G.C.S. jointly organized following activities on this occasion:

1. Conference of various NGOs working on Cancer Awareness
2. Launching of 'Home Care Van' for patients who



cannot come to Hospital

3. Exhibition on 'Reduce stigma and dispel myths about cancer'

4. Joining hands with 'National Marrow Registry' – for stem cell donation for Bone Marrow Transplantation patients

The event was successful. 20 NGOs participated in this event.



## National Science Day

Bioconclave-2014 was hosted by Department of Cancer Biology and was organized by Dr. Rakesh Rawal, Head, Division of Medicinal Chemistry & Pharmacogenomics on February 27, 2014 as a part of Science Day celebration. The theme of this year's

BIOCONCLAVE is 'Evolving concepts in Stem Cell & Regenerative Medicine'. **Dr Nisha Shah**, Dean Science Faculty, Gujarat University was Guest of Honour for the event.





## Bhoomi Poojan of New GCRI Building

To initiate the process of reconstruction of New GCRI building, Bhoomi Poojan was done on March 3, 2014 in GCRI campus. The foundation ceremony was done by **Shri Nitinbhai Patel**, Minister of Finance, Medical Education and Health and Family Welfare, while the Chief Guests were **Smt. Anandiben Patel**, Minister of Revenue, Roads &

Buildings Capital Project, and **Shri Pradeep Sinh Jadeja**, Minister of Law & Justice. The dignitaries also present were **Smt. Minaxiben Patel**, Mayor, Ahmedabad City and **Shri Pankaj Patel**, Chairman, Gujarat Cancer Society. **Dr. Rakesh Vyas** addressed the gathering and briefed about the activities of GCRI. **Dr. Geeta Joshi** hosted the ceremony.



## Women's Day

As a part of International Women's Day celebration, drawing and elocution competitions were arranged on March 7, 2014. The theme of the day was 'Inspiring the change: For women's advancement everywhere in every way'. The program was well organized by Women Development Cell of GCRI and attended by many

employees of our institute including doctors, nurses and class III and IV staff members. On March 8, 2014, guest lecture by **Mrs. Sudha Mujumdar**, Faculty in basic quality control concept, on 'Improving quality at home and work place' was organized. The awardees of competitions were felicitated.



## Student's Farewell

Farewell for final year resident doctors and research PhD students was organized on March 15, 2014. **Dr. Manda Parekh**, Director, Rural

development Institute was Chief Guest of the function.



## P. FUNCTIONING OF COMMITTEES

### Internal Management Committee

|                     |          |
|---------------------|----------|
| Dr. Rakesh Vyas     | Chairman |
| Dr. Geeta Joshi     | Member   |
| Dr. Kiran Kothari   | Member   |
| Mr. N. T. Chavda    | Member   |
| Dr. Asha Anand      | Member   |
| Dr. Shashank Pandya | Member   |
| Dr. Apurva Patel    | Member   |

### Purchase Committee

|                   |                                      |
|-------------------|--------------------------------------|
| Dr. Rakesh Vyas   | Incharge Director & Member Secretary |
| Dr. Kiran Kothari | Dy. Director, GCRI, Member           |
| Dr. Geeta Joshi   | Dy. Director, GCRI, Member           |
| Mr. N. T. Chavda  | Hospital Administrator               |

### GCRI Website Updating Committee

#### Advisory Body

|                   |                             |
|-------------------|-----------------------------|
| Dr. Rakesh Vyas   | Incharge Director, Chairman |
| Dr. Geeta Joshi   | Dy. Director                |
| Dr. Kiran Kothari | Dy. Director                |
| Mr. N. T. Chavda  | Hospital Administrator      |

#### Technical Committee Members

|                          |                                  |
|--------------------------|----------------------------------|
| Dr. Rakesh Rawal         | Cancer Biology, Member Secretary |
| Ms. Meena Bhatia         | OSD, Admin Wing, Coordinator     |
| Dr. Dhruvi Desai         | RMO, Admin Wing, Member          |
| Dr. Hemangini Vora       | Cancer Biology, Member           |
| Dr. Foram Patel          | Microbiology, Member             |
| Dr. Pooja Nandvani Patel | Radiotherapy, Member             |
| Mr. Kiran Parmar         | IT Department, Member            |
| Mr. Dharmesh Panchal     | Photography & Publicity, Member  |
| Mr. Jagdish Gohel        | Library, Member                  |



Website: <http://www.cancerindia.org>

**Objective:** To improvise, screen and approve GCRI website content prior to hosting.

The committee has defined task and responsibilities. News and Event section is updated

twice in a month (Every 1st and 15th of the Month). Employment and Tender details are hosted as and when required. Departments and services are reviewed once in a year with final approval by Director.

## Library Committee

|                                    |                     |
|------------------------------------|---------------------|
| Dr. Rakesh Vyas                    | Incharge Director   |
| Dr. Geeta Joshi                    | Deputy Director     |
| Dr. Kiran Kothari                  | Deputy Director     |
| Dr. Asha Anand                     | Professor In-charge |
| Dr. Rakesh Rawal                   | Member Secretary    |
| Dr. Hitesh Rajpura                 | Member              |
| Dr. Manoj Shah / Dr. Priti Trivedi | Member              |
| Dr. Ava Desai                      | Member              |
| Dr. Dhruvi Desai                   | RMO                 |
| Mrs. Nuri Chauhan                  | Librarian           |

**Objective:** To review the library related issues and recommend utilization of grant for facility

**Activities:** Library Committee meeting were held on April 24, 2013 and December 05, 2013. The important decisions taken by I/C Director were to renewal of ProQuest Medical Database and 61

improvisation and content creation (Print/Online Journals and Books).

National and International Oncology Journals (Print +Online) for the period of January to December 2013 and Library Membership card is mandatory for all the GCRI library users.

## GCS Research Journal Committee

|                     |                  |
|---------------------|------------------|
| Dr. R.K. Vyas       | Chairman         |
| Dr. Geeta Joshi     | Co-Chair persons |
| Dr. Kiran C Kothari | Co-Chair persons |
| Dr. Asha Anand      | Editors          |
| Dr. Pariseema Dave  | Editors          |
| Dr. Nandita Ghosh   | Editors          |
| Dr. Bipin Patel     | Members          |

**Objective:** The objective of the Gujarat Cancer Society Research Journal is to provide a wider and louder platform to the scientists and doctors to project their work and views more authentically in

|                        |         |
|------------------------|---------|
| Dr. Manoj Shah         | Members |
| Dr. Shilpa M Patel     | Members |
| Dr. Shashank Pandya    | Members |
| Dr. Prabhudas S. Patel | Members |
| Dr. Hemangini H. Vora  | Members |
| Dr. Rakesh M. Rawal    | Members |
| Dr. Harsha Panchal     | Members |

a peer reviewed journal. To serve as an academic-research bridge between the basic science and applied sciences, viz, various disciplines of medicine within and outside GCS-GCRI.



**Activities:** Gujarat Cancer Society Research Journal is a biannually (April and October) peer-reviewed journal published by the Gujarat Cancer Society (formerly published as GCS Research Bulletin). Journal represents academic as well as basic, clinical and clinico-basic research carried out by the staff of the GCRI and GCS during the preceding period starting from publication of the last issue. It generally comprises of invited review articles, publish oration speech, scientific papers

anecdotal reports, summaries of paper and articles published in various journals and other scientific publications, as well as an account of the work presented in the clinical meetings and journal clubs. The frequency of publication is intended to be increased. It should be able to promote the cause of oncology in the country and also abroad, simultaneously projecting the work, the workers, the work-place and the warehouse.

### ICS Cancer Cure Fund

|                    |                       |
|--------------------|-----------------------|
| Dr. Rakesh Vyas    | Incharge Director     |
| Dr. Kiran Kothari  | Dy. Director          |
| Dr. Geeta Joshi    | Dy. Director          |
| Dr. Dhruvi Desai   | RMO                   |
| Shri Bhadrash Shah | Accounts Officer      |
| Shri M.D. Patel    | Medical Record Keeper |

**Objective:** Financial help to poor/needly cancer patients.

### Treatment of MA Yojana & LIG Patients

|                        |                       |
|------------------------|-----------------------|
| Dr. Rakesh Vyas        | Incharge Director     |
| Dr. Dhruvi Desai       | RMO                   |
| Dr. Bhalchandra Pandya | RMO                   |
| Mrs. Shivani Rajput    | Accounts Officer      |
| Shri M.D. Patel        | Medical Record Keeper |

**Objective:** To see that MA Yojana patients get treatment as per government rules.

### Patient Care Evaluation Committee

|                          |               |
|--------------------------|---------------|
| Dr. Geeta Joshi          | Dy. Director  |
| Dr. Bhalchandra Pandya   | RMO           |
| Shri Rasmikant Magiawala | Social Worker |
| Ms. Mona Darji           | Matron        |
| Ms. S J. Macwan          | Matron        |

**Objective:** The committee randomly called the patients from different wards and asked them about their experiences regarding hospital. Patient's suggestions are followed. A questioner has been made with a mention of duration of admission in the hospital, experiences on

admission and during their stay in the hospital, information received about the disease, suggestions regarding treatment expense, opinion about the behaviour of doctors, nurses and other staff members and other important remarks of the patients.

### NABL/H Accreditation Committee

|                      |                           |
|----------------------|---------------------------|
| Dr. Rakesh Vyas      | Incharge Director         |
| Dr. Manoj Shah       | Head of Pathology         |
| Dr. Parijath Goswami | Head of Microbiology      |
| Dr. Priti Trivedi    | Prof. of Pathology        |
| Dr. Hemangini Vora   | Senior Scientific Officer |
| Dr. Nandita Ghosh    | Senior Scientific Officer |
| Dr. Rakesh Rawal     | Senior Scientific Officer |
| Dr. Rima Kusumgar    | Blood Transfusion Officer |
| Ms. Meera Voralija   | Store Incharge            |
| Mr. B.H. Patel       | Head Cleark               |
| Mr. Mahesh Ahir      | Civil Engineer            |
| Mr. Sanjay Patel     | Electrical Engineer       |

**Objective:** To obtain NABL Accreditation for laboratories and to review quarterly the NABL

records of laboratories.

### Fire Safety Committee

|                        |                           |
|------------------------|---------------------------|
| Dr. Rakesh Vyas        | Incharge Director         |
| Dr. Dipak Rathod       | RMO                       |
| Dr. Bhalchandra Pandya | RMO                       |
| Dr. Dhruvi Desai       | RMO                       |
| Dr. Rakesh Rawal       | Senior Scientific Officer |
| Shri K.P. Jayapal      | PS to Director            |
| Shri Mahesh Ahir       | Civil Engineer            |
| Shri Sanjay Patel      | Electical Engineer        |

**Objective:** To understand and implement the fire safety in GCRI after careful assessment of hospital infrastructure as per norms. To prepare and

implement SOP for fire and non fire disaster management in GCRI.

## Disaster Management Committee

|                        |                   |
|------------------------|-------------------|
| Dr. Rakesh Vyas        | Incharge Director |
| Dr. Dipak Rathod       | RMO               |
| Dr. Dhruvi Desai       | RMO               |
| Dr. Bhalchandra Pandya | RMO               |

**Objective:** To act and instruct after evaluating nature of disaster.

## Women's Development Cell

|                          |                 |
|--------------------------|-----------------|
| Dr. Geeta Joshi          | Chairman        |
| Dr. Meeta Mankad         | Co-chairman     |
| Dr. Manisha Brahmhatt    | Secretary       |
| Dr. Kinna Shah           | Joint Secretary |
| Dr. Franky Shah          | Member          |
| Dr. Forum Patel          | Member          |
| Dr. Anjana Chauhan       | Member          |
| Dr. Pooja Nandwani Patel | Member          |
| Mrs. Mona Darji          | Member          |
| Mrs. Dipti Gandhi        | Member          |
| Mrs. Hansa Kanani        | Member          |
| Dr. Rima Kusumgar        | Member          |
| Ms. Ketaki Kathiria      | Member          |

**Objective:** The women development cell has organized three programmes during the year. On Doctor's day July 1, 2014, a Tree Plantation at GCRI was done. A lecture was organised on 'How to save environment on day to day life' on September 12,

2013, by **Ms. Ketki Gadre** Project Officer, Waste Management Group, Centre for Environment Education, Ahmedabad. On International Women's Day March 8, 2013, a 5S Training Programme was coordinated by **Mrs. Sudha Mazumdar**.

## Women's Grievance Cell

|                               |             |
|-------------------------------|-------------|
| Dr. Ameenben Yagnik           | Chairperson |
| <b>Core Committee Members</b> |             |
| Mrs. Bhartiben Parikh         | Member      |
| Dr. Geeta Joshi               | Member      |
| Dr. Hemangini Vora            | Member      |
| Ms. S. J. Macwan              | Member      |
| Dr. J. P. Neema               | Member      |
| Dr. Prabhudas Patel           | Member      |
| Mr. Jaipal Nair               | Member      |
| <b>Advisors</b>               |             |
| Dr. Parijath Goswami          | Member      |
| Dr. Meeta Mankad              | Member      |
| Dr. Priti Trivedi             | Member      |
| Dr. Harsha Panchal            | Member      |
| Ms. Bhavna Patel              | Member      |
| Ms. Dipti Gandhi              | Member      |
| Ms. Sudhaben Gohil            | Member      |
| Mrs. Gajrabhen Vaghela        | Member      |

**Objective:** The purpose to form this cell is to maintain Healthy Working Environment and woman should not feel unsafe at work place.

**Activities:** The first meeting of Women Grievance Cell was held under the leadership of Chairperson Ms. Ameenben Yagnik (Advocate of High Court) On October 6, 2012 at GCRI. The social worker Ms. Bhartiben Parikh, and GCRI members and advisors remained present. The chairperson conveyed that according to Vishakha's Judgment of Supreme Court the Cell should consist of 7 members - One Chairperson, three women members (one social worker and two from the organisation) and three

men members. The proactive role of the committee is to enroll complain of staff member/s related to Gender discrimination, mental harassment and sexual harassment. Patients complains should also be enrolled if the incident is happened in hospital premises. The complainer should submit the complaint form to the cell and verbal complaints can also be entertained. Each complaint should be registered and number should be given accordingly. Two members can first inquire about the complaint and then can be discussed with the other members of the cell. This cell should meet once in two or three months.



## Information Technology Committee

|                      |  |
|----------------------|--|
| Dr. Rakesh Vyas      | Incharge Director, Chairman                  |
| Shri Haren Shah      | Computer Expert and Hon. External IT Advisor |
| Shri Rashmikant Shah | Computer Expert                              |
| Dr. Kiran Kothari    | Dy. Director                                 |
| Shri N. T. Chavda    | Hospital Administrator                       |
| Shri Kiran Parmar    | Computer Engineer                            |

**Objective:** To assess and implement hospital information management system along with laboratory information management system. To

assess hospital IT infrastructure with special reference to utilisation and need for prioritization in procurement process.

## Hospital Infection Control Committee

|                      |   |
|----------------------|---|
| Dr. Rakesh Vyas      | Incharge Director, Chairman                 |
| Dr. Geeta Joshi      | Deputy Director                             |
| Dr. Parijath Goswami | Member Secretary, Professor of Microbiology |
| Dr. Kiran Kothari    | Deputy Director, Surgery, Member            |
| Dr. Shaskank Pandya  | HOD, Surgical Oncology, Member              |
| Dr. Apurva Patel     | HOD, Medical Oncology, Member               |
| Dr. Shilpa Patel     | HOD, Gynaec Oncology, Member                |
| Dr. Bipin Patel      | HOD, Anaesthesiology, Member                |
| Dr. Jayshree Thakker | Professor Anaesthesiology, Member           |

## Activities in Infection Prevention

### General measures

1. Infected patients surveillance: To check if the patient is infected with MRSA / ESBL , pseudomonas or acinetobacter. Emphasis on Hand hygiene to prevent dissemination of Infection to other patients.
2. Monitoring and documenting infection control practices checklist on daily basis.
3. Hospital hygiene
4. Monitoring standard precautions being followed by HCWs (Doctors, Nursing staff and housekeeping personnel)
5. Training programs
  - Preventing Blood stream infections(BSI) – Dr. Parijath. N. Goswami

- Surveillance on sterilization assurance in CSSD and ICUs- Dr. Victor Rosenthal
- International infection control week- Dr. Parijat. N. Goswami
- Displays of Hand hygiene in hospital's sites.
- OT-CSSD Monitoring of Sterilizers
- Vector control program.
- Issues in prevention of HBV infections
- Workshop on controlling infection as a part of NABH

### Specific Measures

6. Renovating the washing , drying , packaging area of CSSD
7. Hand hygiene compliance throughout the hospital: Check list : To follow WHO/CDC

Hand hygiene guidelines “ My 5 Moments of Hand Hygiene”

8. Surveillance of potable water of the hospital.
9. Data generation of 4 indicators of Health care associated infections: CAUTI, CABS, SSI and VAP.
10. Reporting NSI (needle stick injury)
11. Created different registers pertinent to the area like CSSD, Neuro-TSSU, OT TSSU etc for monitoring and documentation.
12. Surveillance of Critical areas like OT, BMT, Chemotherapy wards etc.
13. Sub- committee for justified use of Antibiotics is formed involving;
  - Dr. Apurva Patel, Professor of medical oncology.
  - Dr. Shashank Pandya, Professor and Head of Surgical oncology
  - Dr. Shilpa Patel, Professor and Head of Gynec oncology
  - Dr. Jayshree Thakkar, Professor of

Anesthesiology

- Dr. Parijath Goswami, Professor and Head of Microbiology
  - Mr. A. V. Patel, Pharmacist
14. Sub-Committee for Hospital Waste Management
    - Dr. Parijat N. Goswami, Heads the HWM committee
    - Mrs. Mona Darji, Matron-Grade-1, Heads the HWM committee
    - Mrs. Hemlata Simons, Head Nurse, HWM Nurse, Reports to Mrs. Mona Darji & Dr. Parijat Goswami
    - Mrs. Kashmiri Thaker, Head Nurse, HWM Nurse Reports to Mrs. Mona Darji & Dr. Parijat Goswami
    - Dr. Forum Patel, Manages meetings and submits reports to dr.Parijat Goswami
    - Mr. Akshay Dave, Sanitary Inspector
    - Mr. Ranan, Rajdeep Contractor

## Cleaning Contract Service Committee

|   |                     |
|---|---------------------|
| Dr. Rakesh Vyas   | Incharge Director   |
| Head & Professor of Medical, Surgical, Radiotherapy, Pathology, Radiology or their Senior representatives |                     |
| Dr. Dhruvi Desai  | RMO                 |
| Dr. Bhalchandra Pandya  | RMO                 |
| Ms. Mona Darji  | Matron              |
| Ms. S. J. Macwan  | Matron              |
| Shri Rajendra Rajput  | Admin Officer       |
| Shri Maheshbhai Ahir  | Civil Engineer      |
| Shri Sanjay Patel   | Electrical Engineer |

**Objective:** To ensure highest standards of cleanliness in the hospital and premises.

## Institutional Review Committee For Dissertation/Thesis

|                      |   |
|----------------------|---|
| Dr. Rakesh Vyas      | Chairperson, Incharge Director, GCRI                |
| Dr. Geeta Joshi      | Member Secretary, Dy. Director, GCRI                |
| Dr. Harsha Panchal   | Assistant Member Secretary, Medical Oncology        |
| Dr. Nandita Ghosh    | Assistant Member Secretary, Molecular Endocrinology |
| Mr. Vinay K. Kapoor  | Member (Legal)                                      |
| Mr. Narendra Verma   | Member (Legal)                                      |
| Mr. Ushakant Shah    | Member (Social Worker)                              |
| Dr. Kiran Kothari    | Member, Dy. Director, GCRI                          |
| Dr. J. P. Neema      | Member, Head, Radiotherapy                          |
| Dr. Shashank Pandya  | Member, Head, Surgical Oncology                     |
| Dr. Hemant Shukla    | Member, Surgical Oncology                           |
| Dr. Dhaval Jetly     | Member, Pathology                                   |
| Dr. Trupti Patel     | Member, Pathology                                   |
| Dr. Hitesh Rajpara   | Member, Radiodiagnosis                              |
| Dr. Saumil Desai     | Member, Radiodiagnosis                              |
| Dr. U. Suryanarayan  | Member, Radiotherapy                                |
| Dr. Meeta Mankad     | Member, Gynec-Oncology                              |
| Dr. Pariseema Dave   | Member, Gynec-Oncology                              |
| Dr. Bipin Patel      | Member, Anaesthesia                                 |
| Dr. Bhavna Shah      | Member, Anaesthesia                                 |
| Dr. Parijath Goswami | Member, Microbiology                                |
| Dr. Prabhudas Patel  | Member, Biochemistry Research                       |
| Dr. Hemangini Vora   | Member, Immunohistochemistry & Flowcytometry        |
| Dr. Nandita R. Ghosh | Member, Molecular Endocrinology                     |
| Dr. Rakesh Rawal     | Member, Medical Chemistry & Pharmacogenomics        |
| Dr. Franky Shah      | Member, Biochemistry Research                       |

## Scientific Research Committee

### Chairman, Scientific Research Committee

Dr. R.K.Vyas – I/C Director, GCRI

### Member Secretary, Scientific Research Committee

Dr. Asha Anand

|                      |   |
|----------------------|---|
| Dr. Hemangini Vora   | Assistant Member Secretary, Senior Scientific Officer, GCRI |
| Dr. Sonia Parikh     | Assistant Member Secretary, Medical Oncology, GCRI          |
| Dr. Kiran Kothari    | Member, Prof. of Surgical Oncology, GCRI                    |
| Dr. Geetaben Joshi   | Member, Prof of Anesthesia, Pain & Palliative Care, GCRI    |
| Dr. Devendra Patel   | Member, Former Director, GCRI, Professor Emeritus           |
| Dr. Pankaj Shah      | Member, Vice President, GCS                                 |
| Dr. Kirti Patel      | Member, Dean, GCS Medical College                           |
| Dr. Shilin Shukla    | Member, Former Director, GCRI, Professor Emeritus           |
| Dr. Shashank Pandya  | Member, Prof. & Head of Surgical Oncology, GCRI             |
| Dr. Shilpa Patel     | Member, Prof. & Head of Gynaecological Oncology, GCRI       |
| Dr. Bipin Patel      | Member, Prof. & Head of Anaesthesiology, GCRI               |
| Dr. J.P. Neema       | Member, Prof. & Head of Radiotherapy, GCRI                  |
| Dr. Manoj Shah       | Member, Prof. & Head of Pathology, GCRI                     |
| Dr. Parijath Goswami | Member, Prof. & Head of Microbiology, GCRI                  |
| Dr. Hitesh Rajpara   | Member, Prof. of Radiodiagnosis, GCRI                       |
| Dr. Prabhudas Patel  | Member, Senior Scientific Officer, GCRI                     |
| Dr. Rakesh Raval     | Member, Senior Scientific Officer , GCRI                    |
| Dr. Ashok Patel      | Member, Surgical Oncology, GCRI                             |
| Dr. Shailesh Talati  | Member, Medial Oncology, GCRI                               |
| Dr. Priti Trivedi    | Member, Pathology, GCRI                                     |
| Dr. Saumil Desai     | Member, Radiodiagnosis, GCRI                                |
| Dr. Ava Desai        | Member, Gynaecological Oncology, GCRI                       |
| Dr. Bhavna Shah      | Member, Anaesthesiology, GCRI                               |
| Dr. Forum Patel      | Member, Microbiology, GCRI                                  |
| Dr. Nandita Ghosh    | Member, Molecular Endocrinology, GCRI                       |
| Dr. Trupti Trivedi   | Member, Molecular Endocrinology, GCRI                       |
| Dr. Jayendra Patel   | Member, Biochemistry Research, GCRI                         |
| Dr. Franky Shah      | Member, Biochemistry Research, GCRI                         |
| Dr. Nilima Desai     | Member, Immunohistochemistry & Flowcytometry, GCRI          |
| Dr. Manish Brahmhatt | Member, Cell Biology, GCRI                                  |
| Dr. Pina Trivedi     | Member, Cell Biology, GCRI                                  |



## Ethics Committee

| Name                                 | Profession  |
|--------------------------------------|---|
| Hon'ble Justice Shri Bankim N. Mehta | Chairman, Former Justice  |
| Dr. Narendra Patel                   | Member Secretary, Former Director, GCRI, Senior Radiologist                         |
| Dr. Shilin Shukla                    | Member, Former Director, Medical Oncologist, Professor Emeritus                     |
| Shri Naranbhai Patel                 | Member, Senior Advocate   |
| Dr. Asha Anand                       | Member, Medical Oncologist, GCRI,<br>Member Secretary Scientific Research Committee |
| Dr. Pankaj Shah                      | Vice President, GCS   |
| Shri Kshitish Madanmohan             | Member, Secretary, GCS  |
| Dr. Kirti Patel                      | Member, Dean GCS Medical College  |
| Dr. Ushaben S. Shukla                | Member, Philosopher   |
| Shri Madhav Ramanuj                  | Member, Philosopher   |
| Dr. Anilaben Kapadia                 | Member, Senior Gynaecologist  |
| Smt. Bhadraben Doshi                 | Member, Social Worker (Lay Person)  |
| Dr. Prabhudas Patel                  | Assistant to Member Secretary   |
| Dr. Hemangini Vora                   | Member  |
| Dr. Rakesh Vyas                      | Special Invitee, I/C Director, GCRI   |
| Dr. Kiran Kothari                    | Special Invitee, Dy. Director, GCRI   |
| Dr. Geeta Joshi                      | Special Invitee, Dy. Director, GCRI   |



# Q. RESEARCH ACTIVITIES

98

## (Q1) Research Projects: April 2013 - March 2014

| No.                          | Name of PI   | Project Title  | Funded by                      |
|------------------------------|--|--|--------------------------------|
| <b>Anaesthesiology</b>       |  |  |                                |
| 1                            | Dr. Jayshree Thakkar   | Retrospective analysis of ventilator associated pneumonia  | GCS/GCRI                       |
| 2                            | Dr. Geeta Joshi<br>Dr. Priti Sanghvi   | Sphenopalatine block for head & neck cancer pain management  | GCS/GCRI                       |
| <b>Biochemistry Research</b> |  |  |                                |
| 3                            | Dr. Shilin Shukla<br>Dr. Prabhudas Patel<br>Dr. Hemangini Vora<br>Dr. Manoj Shah | Immuno score as a new possible approach for the classification of colon cancer                             | GCS/GCRI-Multinational project |
| 4                            | Dr. Prabhudas Patel  | Contribution of vascular endothelial growth factor family in oral cancer progression                       | DMER                           |
| 5                            | Dr. Prabhudas Patel  | VEGF family expression in cancer cervix and its prognostic significance                                    | GCS/GCRI                       |
| 6                            | Dr. Prabhudas Patel  | Prevalence of high risk HPV type 16 and 18 in cervical cancers in population from Gujarat, West India      | GCS/GCRI                       |
| 7                            | Dr. Jayendra Patel   | Prevalence of HPV in carcinoma of buccal mucosa: a changing etiology and its' associated molecular targets | GCS/GCRI                       |
| 8                            | Dr. Jayendra Patel   | Analysis by 2D electrophoresis approach in oral cancer   | DMER                           |
| 9                            | Dr. Franky Shah  | Study of diverse molecular markers in breast carcinoma with regard to p53 status                           | GCS/GCRI                       |
| 10                           | Dr. Franky Shah  | Role of vitamin D and vitamin D pathway genes in breast cancer   | ICMR                           |
| <b>Blood Bank</b>            |  |  |                                |
| 11                           | Dr. Rima Kusumgar  | Maximum surgical blood order schedule  | GCS/GCRI                       |
| 12                           | Dr. Rima Kusumgar  | Seroprevalance of HIV, HbsAg and HCV among blood donors  | GCS/GCRI                       |
| <b>Cell Biology</b>          |  |  |                                |
| 13                           | Dr. Prabhudas Patel  | ALK rearrangements in NSCLC patients   | Pfizer/GCRI                    |
| 14                           | Dr. Manisha Brahmbhatt   | Molecular cytogenetics as the laboratorial tool for diagnosis and management of patients with solid tumors | GCS/GCRI                       |
| 15                           | Dr. Pina Trivedi   | Clinical significance of cytogenetic and molecular cytogenetic studies in acute promyelocytic leukemia     | GCS/GCRI                       |

| No.   | Name of PI                          | Project Title   | Funded by                             |
|---|-------------------------------------|---|---------------------------------------|
| <b>Community Oncology</b>                       |                                     |   |                                       |
| 16  | Dr. Rakesh Vyas                     | Rural cancer registry Ahmedabad district  | NCRP, ICMR, Bangalore                 |
| 17  | Dr. Rakesh Vyas                     | Population based cancer registry - Ahmedabad urban agglomeration area   | NCRP, ICMR, Bangalore                 |
| 18  | Dr. Parimal Jivrajani               | Effectiveness and safety of 2 vs 3 doses of HPV vaccine in preventing cervical cancer : an indian multicentric study  | IARC, Lyon, France                    |
| 19  | Dr. Rakesh Vyas                     | Risk factors for breast cancer in india – an indox case control study and life-long vegetarianism and risk of colorectal cancer in india: an indox case control study | INDOX and the University of OXFORD,UK |
| <b>Gynaecological Oncology</b>                  |                                     |   |                                       |
| 20  | Dr. Chetana Parekh                  | Prevalence of high risk human papilloma virus type 16 and type 18 in cervical cancers in population from gujarat, west india  | GCS/GCRI                              |
| 21  | Dr. Archana Bharti<br>Dr. Ava Desai | VEGF family expression in cancer cervix and its prognostic significance   | GCS/GCRI                              |
| <b>Immunohistochemistry &amp; Flowcytometry</b> |                                     |   |                                       |
| 22  | Dr. Hemangini Vora                  | Detection of cancer stem cells in breast cancer patients by multiparameters   | GCS/GCRI                              |
| 23  | Dr. Hemangini Vora                  | Detection of circulating tumor cells in breast cancer patients by multiparameter flowcytometry  | GCS/GCRI                              |
| 24  | Dr. Hemangini Vora                  | Detection of minimal residual disease in acute lymphoblastic leukemia by multicolor flowcytometry   | GCS/GCRI                              |
| 25  | Dr. Hemangini Vora                  | Detection of C-met receptor protein in never smoker lung cancer   | DMER                                  |
| 26  | Dr. Hemangini Vora                  | A study of EGFR downstream signaling pathway in never smoker lung cancer  | DMER                                  |
| 27  | Dr. Nilima Desai                    | Prognostic significance of MDM2 p53 protein expression, cyclinE and basal cytokeratin 5/6 in breast carcinoma   | GCS/GCRI                              |
| 28  | Dr. Nilima Desai                    | Expression of FoxA1 and GATA-3 in breast cancer   | DMER                                  |

| No.                     | Name of PI        | Project Title   | Funded by                  |
|-------------------------|-------------------|---|----------------------------|
| <b>Medical Oncology</b> |                   |   |                            |
| 29                      | Dr. Asha Anand    | Basilea Pharmaceutica Ltd, /A phase III, double-blind, randomized study to evaluate the safety and efficacy of BAL8557 versus a Caspofungin followed by Voriconazole regimen in the treatment of [ Isavuconazonium Sulphate (BAL8557), Isavuconazole (BAL4815)] WSA-CS-008  | Quintiles Spectral Limited |
| 30                      | Dr. Asha Anand    | RLS/TP/2010/07–Prospective, multi-centric, open label, two arm, parallel group, active control, randomized, comparative clinical study to evaluate efficacy and safety of R-TPR-017 / MabThera® in patients with Non-Hodgkin's Lymphoma   | Reliance Life Science      |
| 31                      | Dr. Sandip Shah   | CAMN107A2404 a randomized phase III study of Imatinib dose optimization compared with Nilotinib in patients with Chronic Myelogenous Leukemia and suboptimal response to standard dose Imatinib   | Novartis Healthcare        |
| 32                      | Dr. Sandip Shah   | Study A8081014–entitled: Phase 3, Randomized, Open-Label Study of the Efficacy and Safety of Crizotinib Versus Pemetrexed/Cisplatin or Pemetrexed/Carboplatin in Previously Untreated Patients with Non-Squamous Carcinoma of the Lung Harboring a Translocation or Inversion Event Involving the Anaplastic Lymphoma Kinase (ALK) Gene Locus | Pfizer Ltd                 |
| 33                      | Dr. Sandip Shah   | GP13-301-A Randomized, Controlled, Double-Blind Phase III Trial to Compare the Efficacy, Safety and Pharmacokinetics of GP2013 plus CVP vs. MabThera® plus CVP, Followed by GP2013 or MabThera® Maintenance Therapy in Patients with Previously Untreated, Advanced Stage Follicular Lymphoma. Closed (International )                        | Sandoz-PPD                 |
| 34                      | Dr. Harsha Pancal | B1931008 titled: An open-label, randomized, phase 3 study of Inotuzumab ozogamicin administered in combination with Rituximab compared to defined investigator's choice therapy in subjects with relapsed or refractory CD-22-positive aggressive non-hodgkin lymphoma who are not candidates for intensive high-dose chemotherapy            | Pfizer Ltd                 |
| 35                      | Dr. Harsha Pancal | LUX BREAST-1, 1200.75: An open label, randomized phase III trial of BIBW 2992 and vinorelbine versus trastuzumab and vinorelbine in patients with metastatic HER2-overexpressing breast cancer failing one prior trastuzumab treatment. Active(International )  | Manipal                    |
| 36                      | Dr. Harsha Pancal | A phase II/III Open label Multicentric Randomised trial to determine the safety and efficacy of Non-pegylated Liposomal Doxorubicin (Nudoxa) at two different dose levels as compared to doxorubicin in patients with metastatic breast cancer  | Zydus Cadila               |
| 37                      | Dr. Sonia Parikh  | A Phase II Clinical Study to evaluate the efficacy and safety of NRC-AN-019 in cancer patients failing prior standard therapies   | Natco                      |



| No.  | Name of PI           | Project Title   | Funded by |
|--|----------------------|---|-----------|
| <b>Medicinal Chemistry &amp; Pharmacogenomic</b> |                      |   |           |
| 38   | Dr. Rakesh Rawal     | TGFBeta gene polymorphisms and breast cancer risk   | DMER      |
| 39   | Dr. Rakesh Rawal     | Expression of transforming growth factor beta receptor II in breast carcinoma   | DMER      |
| 40   | Dr. Rakesh Rawal     | Insulin like growth factor-1 gene expression in breast cancer   | DMER      |
| 41   | Dr. Rakesh Rawal     | Isolation and characterization of leukemic stem cells to predict drug response and resistance   | GSBTM     |
| 42   | Dr. Rakesh Rawal     | Developing an in-vitro model to stimulate Imatinib resistance in Ph+ Myeloid Progenitor Cells   | DMER      |
| 43   | Dr. Rakesh Rawal     | Deciphering microRNA dynamics in Imatinib resistance Ph+ CML: in-vitro approach   | GSBTM     |
| 44   | Dr. Rakesh Rawal     | To assess the role of micro RNA and epigenetic regulation of imatinib resistance in chronic myeloid leukemia  | ICMR      |
| <b>Microbiology</b>                              |                      |   |           |
| 45   | Dr. Parijath Goswami | Detection of etiological agents in acute respiratory tract infection by immunofluorescence technique in cancer patients   | GCS/GCRI  |
| 46   | Dr. Parijath Goswami | Detection of Clostridium difficile infection from patients suffering with diarrhoea in particular reference to Antibiotic Associated Diarrhoea (AAD) in cancer hospital | GCS/GCRI  |
| 47   | Dr. Parijath Goswami | Prevalence of systemic fungal infections in oncology patients by Serodiagnosis  | GCS/GCRI  |
| 48   | Dr. Parijath Goswami | Role of sepsis screen and blood cultures in the early diagnosis of Septicemia in febrile neutropenia patients   | GCS/GCRI  |
| 49   | Dr. Parijath Goswami | Antimicrobial profile of hospital acquired Methicillin resistant staphylococcus aureus (HA-MRSA) and phenotypic and genotypic detection of antimicrobial resistance     | GCS/GCRI  |
| 50   | Dr. Foram Patel      | Epidemiology of healthcare associated infection and molecular diagnosis of antibiotic resistance in an intensive care unit  | GCS/GCRI  |
| <b>Molecular Endocrinology</b>                   |                      |   |           |
| 51   | Dr. Nandita Ghosh    | Role of inflammatory mediators in thyroid tumorigenesis   | GCS/GCRI  |
| 52   | Dr. Nandita Ghosh    | Role of thymidylate synthase (TS) and excision repair cross complementation group i (ERCC-I) gene in patients with colorectal carcinoma                                 | GCS/GCRI  |

| No.                      | Name of PI         | Project Title   | Funded by |
|--------------------------|--------------------|---|-----------|
| 53                       | Dr. Nandita Ghosh  | Mutation in exon 14 of Dihydropyrimidine (DPYD) gene and its association with 5-Flourouracil chemotherapy in colorectal cancer        | GCS/GCRI  |
| 54                       | Dr. Nandita Ghosh  | Clinical utility of circulating soluble Fas (sFas) and soluble Fas ligand (sFasL) in patients with locally advanced colorectal cancer | DMER      |
| 55                       | Dr. Trupti Trivedi | Clinical significance of ABCG2, Oct-4 and Nanog in oral squamous cell carcinoma   | DMER      |
| 56                       | Dr. Trupti Trivedi | Clinical relevance of stem cell markers in patients with locally advanced OSCC  | GCS/GCRI  |
| 57                       | Dr. Trupti Trivedi | MRN complex (Mre11/Rad50/Nsb1) proteins in oral cancer  | DMER      |
| 58                       | Dr. Trupti Trivedi | Micro RNA-24 Expression in oral cancer  | DMER      |
| 59                       | Dr. Trupti Trivedi | Clinical Relevance of stem cell markers in patients with locally advanced oral squamous cell carcinoma                                | GCS/GCRI  |
| 60                       | Dr. Trupti Trivedi | Role of DNA damage repair pathway in oral cancer: As predictive markers for therapy response  | GCS/GCRI  |
| <b>Surgical Oncology</b> |                    |   |           |
| 61                       | Dr. Anoop Puri     | Impact of esophagectomy on health related quality of life in patients with esophageal cancer  | GCS/GCRI  |
| 62                       | Dr. Anoop Puri     | Breast cancer awareness among female attendants of the patients visiting GCRI   | GCS/GCRI  |
| 63                       | Dr. Anoop Puri     | Breast cancer awareness among nurses at GCRI  | GCS/GCRI  |

**(Q2) Publications: April 2013 - March 2014**

| <b>Anesthesiology</b>        |  |
|------------------------------|--|
| 1                            | Geeta Joshi: Palliative Care. Textbook of pain management, 3rd edition, 38-41, 2014  |
| 2                            | Geeta Joshi: Intercostals nerve block. Textbook of pain management, 3rd edition, 605-610, 2014   |
| 3                            | Geeta Joshi: Quality of life in head and neck cancer patients - A palliative care perspective. GCS Res Journal, 15: 5-7, 2013  |
| 4                            | Geeta Joshi: Chronic pain syndromes in cancer survivors. Ind J Pain, 26: 147-150, 2012   |
| 5                            | Priti Sanghavi, Bhavna Shah, Geeta Joshi, Bipin Patel: Interventional pain management in head and neck cancer patients. GCS Res Journal, 15: 15-18, 2013   |
| 6                            | Priti Sanghavi, Kinna Shah, Nikunj Patel, Gaurav Sharma, Surabhi Goyal, Bankim Patel: Perioperative management of patient with cardiac pacemaker in non-cardiac surgery - A case report. GCS Med Journal, 9: 96-97, 2014   |
| 7                            | Kinna Shah, Priti Sanghavi, Bipin Patel, Jalpa Balat, Bhumika Revar: Minidose spinal Bupivacaine with or without injection Fentanyl in Day Care surgery. Asian Arch Anesthesiol Resuscitation, 74: 2161-2167, 2012   |
| 8                            | Dipika Patel, Yatrik Ganatra, Neeta Gosai, Bijal Shah, Rashmi Anand, Bipin Patel: A comparative study of thoracic epidural Clonidine HCL and intravenous Fentanyl HCL plus Lignocaine HCL to attenuate hemodynamic response induced by endobronchial intubation. Int J Sci Res, 3: 30-32, 2014     |
| 9                            | Jansari Amita, Priti Sanghavi, Deepa Jadav, Tanmay Tank, Bipin Patel: Anesthetic management of a patient with Wolf-Parkinson White syndrome for modified radical mastectomy - A Case Report. GCSMC J Med Sci, 2: 38-40, 2013   |
| 10                           | Ravi Patel, Madhuri Bhade, Priti Sanghavi, Bipin Patel: Perioperative management of a patient with Glucose-6-phosphate dehydrogenase deficiency - A case report. GMJ, 7: 99-100, 2012  |
| 11                           | Priyanka Patil, Ravi Jain, Saumi Chaudhry, Jayshree Thakkar, Bipin Patel: Tracheal Granuloma as an incidental finding during endotracheal intubation - A case report. Gujarat Med Journal, 7: 123-125, 2012  |
| <b>Biochemistry Research</b> |  |
| 12                           | Kinjal Patel, Bhairavi Vajaria, Rasheedunnisa Begum, Ava Desai, Jayendra Patel, Franky Shah, Shilin Shukla, Prabhudas Patel: Prevalence of high-risk human papillomavirus type 16 and 18 in oral and cervical cancers in population from Gujarat, West India. J Oral Pathol Med, 43: 293-297, 2014 |
| 13                           | Kinjal Patel, Bhairavi Vajaria, Rasheedunnisa Begum, Prabhudas Patel: A review on genetic susceptibility towards oral cancer risk among Indian population. GCS Res Journal, 15: 10-17, 2013  |
| <b>Blood Bank</b>            |  |
| 14                           | Rima Kusumgar, Sandip Shah, Manoj Shah, Pragnesh Shah: Study of collection efficacy of cell separator machine and engraftment outcome of peripheral blood HSCT. South East Asian J of Case Report and Review, 2: 413-421, 2013   |

| <b>Cell Biology</b>           |  |
|-------------------------------|--|
| 15                            | Manisha Brahmbhatt, Pina Trivedi, Dharmesh Patel, Shilin Shukla, Prabhudas Patel: Multiple copies of BCR/ABL fusion signals and t(3;21) in a chronic myeloid leukemia: patient with blast crisis: a rare event with Imatinib Mesylate (Gleevec)-resistance in an indian patient. J Assoc Genetic Technologists, 40:4-9, 2014 |
| 16                            | Manisha Brahmbhatt, Pina Trivedi, Dharmesh Patel, Shilin Shukla, Prabhudas Patel: Location of the BCR/ABL fusion genes on both chromosomes 9 in Ph negative young CML patients: An Indian experience. Ind J Hemat & Blood Transfusion (In Press)   |
| 17                            | Pina Trivedi, Manisha Brahmbhatt, Dharmesh Patel, Shilin Shukla, Prabhudas Patel: Acute Myeloid Leukemia with a masked type of three way t(8;11;21) revealed by Fluorescence In Situ Hybridization using AML1-ETO probe. J Assoc of Genetic Technologists, 40:11-15, 2014  |
| 18                            | Pina Trivedi, Manisha Brahmbhatt, Dharmesh Patel, Shilin Shukla, Prabhudas Patel: Isochromosome der(17)(q10)t(15;17) with an additional copy of RARA-PML Fusion gene in two young APML patients. GCS Res Journal, 15: 3-6, 2013  |
| <b>Community Oncology</b>     |  |
| 19                            | Parimal Jivarajani, Prachi Shah, Jayesh Solanki, Himanshu Patel, Vishruti Pandya, Shilin Shukla: Cancer profile in Patan district, Gujarat: A comprehensive review. GMJ, I.M.A.G.S.B. News Bulletin, 9: 70-74, 2014  |
| 20                            | Parimal Jivarajani, Prachi Shah, Jayesh Solanki, Himanshu Patel, Vishruti Pandya: Magnitude of head and neck cancer in Patan district. GCS Res Journal, 15: 12-14, 2013  |
| 21                            | Parimal Jivarajani, Jayesh Solanki, Vishruti Pandya, Himanshu Patel, Prachi Shah: Pattern of head and neck cancers in regional cancer centre, Gujarat. GCS Res Journal, 15: 27-28, 2013  |
| 22                            | Parimal Jivarajani, Vishruti Pandya, Jayesh Solanki, Himanshu Patel, Shilin Shukla: Cancer atlas in Gujarat, India. GCS Res Journal, 15: 7-12, 2013  |
| 23                            | Parimal Jivarajani, Prachi Shah, Himanshu Patel, Jayesh Solanki, Vishruti Pandya: Cancer estimation of male population in Patan district, Gujarat. Healthline, (Accepted)  |
| 24                            | Parimal Jivarajani, Jayesh Solanki, Prachi Shah, Himanshu Patel, Vishruti Pandya: An overview of tobacco related cancers in Patan district, Gujarat State. BJkines, B.J. Medical College, Ahmedabad (Accepted)   |
| 25                            | Parimal Jivarajani, Prachi Shah, Himanshu Patel, Vishruti Pandya, Jayesh Solanki: Cancer scenario in women in Patan district, Gujarat State. GCSMC J Med Sci (Accepted)  |
| <b>Gynecological Oncology</b> |  |
| 26                            | Anusha Kamath, Ruchi Arora, Ronak Bhansali, Kalpna Dave: Torsion of adnexal mass presenting as acute abdomen: A case report. Ind J of Gynaecol Oncol, 1: 58-60, 2013   |
| 27                            | Ratna Sharma, Ruchi Arora, Ronak Bhansali, Kalpna Dave: Primary malignant melanoma of the uterine cervix: A case report. Ind J of Gynaecol Oncol, 1: 61-62, 2013   |
| 28                            | Shaktisingh Vaghela, Ruchi Arora, Ronak Bhansali, Kalpna Dave: Paraovarian cyst mimicking ovarian malignancy: A case report. Ind J of Gynaecologic Oncol, 1: 55-57, 2013   |



| <b>Medical Oncology</b> |   |
|-------------------------|---|
| 29                      | Asha Anand: Editorial. Should we report unusual presentations of malignancies? GCS Res Journal, 15: 1-2, 2013   |
| 30                      | Sonia Parikh, Shilin Shukla: Myths and facts about cancer. Cancer can be cured! GCS Res Journal, 15: 48, 2013   |
| 31                      | Sachin Jain, Shilin Shukla, Shailesh Talati, Sonia Parikh, Shivani Bhatt, Vinayak Maka: A retrospective study of central venous catheters: GCRI experience. Ind J Med Ped Oncol, 34: 238-241, 2013  |
| 32                      | Prashant Parida, Shailesh Talati, Shilin Shukla, Sonia Parikh, Shivani Bhatt, Bharat Parikh, Asha Anand, Sandip Shah, Harsha Panchal, Apurva Patel, Bhavesh Parekh, Priti Trivedi: T-cell-rich B-cell lymphoma of head and neck region with waldeyer's ring involvement. A case report. GCS Res Journal, 15: 34-35, 2013  |
| 33                      | Vandana Gohel, Shailesh Talati, Shilin Shukla, Sonia Parikh, Asha Anand, Sandip Shah, Harsha Panchal, Apurva Patel, Bhavesh Parekh, Birwa Shah, Ashini Shah, Vashishth Maniar, Divesh Goyal, Shreeniwas Raut: Teratoid Wilms' tumor: An unusual variant of nephroblastoma. GCS Res Journal, 15: 44-46, 2013   |
| 34                      | Divesh Goyal, Sonia Parikh, Shilin Shukla, Shailesh Talati, Asha Anand, Sandip Shah, Harsha Panchal, Apurva Patel, Bhavesh Parekh, Birwa Shah, Vashishtha Maniar, Vandana Gohel, Shreeniwas Raut: Primary diffuse large B-cell lymphoma of the urinary bladder. GCS Res Journal, 15: 36-38, 2013  |
| 35                      | Shreeniwas Raut, Shilin Shukla, Shailesh Talati, Sonia Parikh, Bharat Parikh, Asha Anand, Shivani Bhatt, Sandip Shah, Harsha Panchal, Apurva Patel, Bhavesh Parekh: Splenic infarcts following treatment with Filgrastim—An Unusual Complication. GCS Res Journal, 15: 39-41, 2013  |
| 36                      | Amit Jetani, Apurva Patel, Asha Anand, Shilin Shukla, Bharat Parikh, Shailesh Talati, Sandip Shah, Harsha Panchal, Sonia Parikh, Bhavesh Parekh, Shivani Bhatt: A retrospective study to assess safety and efficacy of Nimotuzumab, a monoclonal antibody against EGFR in combination with chemo radiotherapy in patients with head and neck cancer. GCS Res Journal, 15: 18-21, 2013 |
| 37                      | Vikas Gadhavi, Asha Anand, Apurva Patel, Shilin Shukla, Bharat Parikh, Shailesh Talati, Sandip Shah, Harsha Panchal, Sonia Parikh, Bhavesh Parekh, Shivani Bhatt: Oral Teratoma with a yolk sac component: A case report. GCS Res Journal, 15: 42-43, 2013  |
| 38                      | Pinaki Mahato, Asha Anand, Apurva Patel, Shilin Shukla, Bharat Parikh, Shailesh Talati, Sandip Shah, Harsha Panchal, Sonia Parikh, Bhavesh Parekh, Shivani Bhatt: Primary orbital lymphoma - A case report. GCS Res Journal, 15: 48-50, 2013  |
| 39                      | Prakash Devde, Shilin Shukla, Bharat Parikh, Shailesh Talati, Asha Anand, Sonia Parikh, Sandip Shah, Apurva Patel, Harsha Panchal, Bhavesh Parekh, Shivani Bhatt: Esthesioneuroblastoma - A case report and review of literature. GCS Res Journal, 15: 53-55, 2013  |
| 40                      | Apurva Patel, Bipin Patel, Kirti Patel: Role of PET scan in clinical practice. Guj Med Journal, 65: 19-22, 2013   |
| <b>Microbiology</b>     |   |
| 41                      | Parijath Goswami: Recent trends in HIV infection: A review. GCS Res Journal, 15: 5-9, 2013  |
| 42                      | Foram Patel, Rahul Lunagariya, Varun Chandra, Parijath Goswami: Infections in patients with cancer- GCRI experience. GCS Res Journal, 15: 22-28, 2013   |

| <b>Pathology</b>         |   |
|--------------------------|---|
| 43                       | Priti Trivedi, Divya Kriplani, Ashini Shah, Sanjay Sen, Hemang Baxi, Manoj Shah: Primary small cell carcinoma of renal pelvis: A case report with review of literature. World J Pathol, 2: 53-60, 2013                  |
| 44                       | Priti Trivedi, Divya Kriplani, Amisha Gami, Manoj Shah, Pankaj Shah: Small cell variant of renal oncocytoma with liver metastasis. Int J Surg Pathol, 21: 615-617, 2013   |
| 45                       | Divya Kriplani, Priti Trivedi, Manoj Shah: Renal cell carcinoma with osseous metaplasia. J Case Reports, 3:165-168, 2013  |
| <b>Radiodiagnosis</b>    |   |
| 46                       | Himanshu Soni, Hitesh Rajpura, Jenny Gandhi, Vipashyana Jadav, Hiral Chaudhari: Imaging of Retinoblastoma. GCS Res Journal, 15: 19-26, 2013   |
| <b>Surgical Oncology</b> |   |
| 47                       | Devendra Jain, Nishant Sanghvi, Jayesh Patel, Jayveersinh Jhala: Three years experience of operated cases of oesophagectomy in our surgical unit. GMJ, 69: 41-43, 2014  |
| 48                       | Shishir Shah, Yogen Chheda, Sundaram Pillai, Shakuntala Shah: Total esophagectomy for squamous cell carcinoma with/without standard two field lymphadenectomy - A prospective study. Ind J Surg Oncol, 4: 336-340, 2013 |
| 49                       | Mohit Sharma, Shakuntala Shah, Devendra Parikh, Yogen Chheda, Dipayan Nandy: Retropharyngeal lipoma - A case report. GCS Res Journal, 15: 51-52, 2013   |
| 50                       | Mohit Sharma: Malignant mesothelioma - Case Report. Ind J Cancer, 50: 2013 (Abstract)   |
| 51                       | Nishant Sanghavi: A two years experiences of major pancreatic resection at our high volume regional cancer centre. Ind J Cancer, 50: 2013 (Abstract)  |
| 52                       | Sandeep Gupta: Comparison between free flap and pectoralis major pedicled flap for reconstruction in oral cavity cancer patients - A quality of life analysis. Ind J Cancer, 50: 2013 (Abstract)                        |
| 53                       | Dipayan Nandy, Mohit Sharma, Shakuntala Shah, Ashok Patel, Jayesh Prajapati, Mahesh Patel: Unusual sites of metastasis in squamous cell carcinoma of oral cavity - Case report. Ind J Cancer, 50: 2013 (Abstract)       |
| 54                       | Vikas Warikoo, Kiran Kothari, Mahesh Patel, Dinesh Sharma, K Thakar, M Kumar: Implantation metastasis of head and neck squamous cell cancer at the distant flap donor site. Ind J Cancer, 50: 2013 (Abstract)           |
| 55                       | Vikas Warikoo, Kiran Kothari, Mahesh Patel, Dinesh Sharma, Dipak Rao, Kartikain Ramaswami: Spindle cell carcinoma (sarcomatoid carcinoma) of head and neck. Ind J Cancer, 50: 2013 (Abstract)                           |

**(Q3) Conference Presentation - International  
April 2013 - March 2014**

| No.                           | Name of Presenter | Name of Conference   | Date & Venue                             | Title of Presentation  |
|-------------------------------|-------------------|--|--|--|
| <b>Anesthesiology</b>         |                   |  |  |  |
| 1                             | Dr. Geeta Joshi   | 3 <sup>rd</sup> International Conference on SriLanka Association for the Study of Pain | October 3-4, 2013<br>Kandy, SriLanka     | Neuropathic pain and its management                                    |
| 2                             | Dr. Bhavna Shah   | 3 <sup>rd</sup> International Conference on SriLanka Association for the Study of Pain | October 3-4, 2013<br>Kandy, SriLanka     | Cancer pain management   |
| <b>Gynecological Oncology</b> |                   |  |  |  |
| 3                             | Dr. Ava Desai     | Asia Oceania Geosciences Society   | June 25, 2013,<br>Brisbane,<br>Australia | Beta HCG: The key to management of Gestational Trophoblastic Neoplasia |
| <b>Surgical Oncology</b>      |                   |  |  |  |
| 4                             | Dr. Yogen Chheda  | 4 <sup>th</sup> World Congress of The International Academy of Oral Oncology           | May 15-18, 2013, Greece                  | Significance of level 2b lymph node dissection in clinically N0 neck   |
| 5                             | Dr. Tarun Kumar   | 4 <sup>th</sup> World Congress of The International Academy of Oral Oncology           | May 15-18, 2013, Greece                  | Neoadjuvant chemotherapy in oral cavity cancer                         |

**Conference Presentation - National  
April 2013 - March 2014**

| No.                   | Name of Presenter | Name of Conference  | Date & Venue                                     | Title of Presentation                  |
|-----------------------|-------------------|---|--|--|
| <b>Anesthesiology</b> |                   |   |  |  |
| 1                     | Dr. Geeta Joshi   | 21 <sup>st</sup> Annual Conference of Indian Association of Palliative Care | February 14-16, 2014,<br>Bhubneshwar,<br>Orissa  | Evidence based treatment for bone pain |
| 2                     | Dr. Geeta Joshi   | First World Symposium on Pain   | November 14-17, 2013,<br>Kolkata,<br>West Bengal | Panelist: Research in chronic pain     |

| No. | Name of Presenter    | Name of Conference  | Date & Venue                              | Title of Presentation   |
|-----|----------------------|---|---|---|
| 3   | Dr. Priti Sanghavi   | 1 <sup>st</sup> Indian Cancer Congress 2013                                 | November 21-24, 2013, New Delhi           | Sphenopalatine block for head & neck cancer pain management-80 patients series  |
| 4   | Dr. Priti Sanghavi   | 21 <sup>st</sup> Annual Conference of Indian Association of Palliative Care | February 14-16, 2014, Bhubneshwar, Orrisa | Sphenopalatine block for head & neck cancer pain management-250 patients series   |
| 5   | Dr. Misha Agarwal    | 16 <sup>th</sup> Rajsthan State Conference of ISA                           | September 27-29, 2013, Udaipur            | Comparison of oral gabapentin and clonidine for attenuation of pressure response to laryngoscopy and tracheal intubation  |
| 6   | Dr. Sayed Vora       | 16 <sup>th</sup> Rajsthan State Conference of ISA                           | September 27-29, 2013, Udaipur            | A comparison between prophylactic iv ephedrine and crystalloid preloading for prevention of post spinal hypotension   |
| 7   | Dr. N. Priyadarshini | 16 <sup>th</sup> Rajsthan State Conference of ISA                           | September 27-29, 2013, Udaipur            | Comparative study between inj ketamine hcl + injection midazolam hcl and inj fentanyl citrate + inj midazolam HCL in paediatric patient for procedural sedation in RT, CT and MRI |
| 8   | Dr. Ruchi Barkhane   | 16 <sup>th</sup> Rajsthan State Conference of ISA                           | September 27-29, 2013, Udaipur            | Comparative study of prophylactic dose of intravenous Ketamin HCL & Tramadol HCL for the control of post operative shivering under spinal anesthesia                              |

### Biochemistry Research

|    |                     |  |  |   |
|----|---------------------|--|--|---|
| 9  | Dr. Prabhudas Patel | 33 <sup>rd</sup> Annual Convention of Indian Association for Cancer Research | February 13-15, 2014, Thiruvananthapuram | Insights into molecular signatures of oral cancer                                     |
| 10 | Ms. Kinjal R. Patel | 1 <sup>st</sup> Indian Cancer Congress 2013                                  | November 21-24, 2013, New Delhi          | Contribution of VEGF: A isoforms in oral cancer progression                           |
| 11 | Ms. Kinjal D. Patel | 1 <sup>st</sup> Indian Cancer Congress 2013                                  | November 21-24, 2013, New Delhi          | Polymorphism of DNA repair gene, XPD and breast cancer risk in West Indian population |



| No.                           | Name of Presenter    | Name of Conference  | Date & Venue   | Title of Presentation  |
|-------------------------------|----------------------|---|--|--|
| 12                            | Ms. Bhairavi Vajaria | National Conference On Glycobiology of Cancer: Lectins As Tools & Targets | November 7-9, 2013, Karnataka University Campus, Dharwad | Significance of salivary glycosylation changes in oral precancerous conditions and oral cancer               |
| <b>Blood Bank</b>             |                      |   |  |  |
| 13                            | Mr. Jagdish Diwan    | 2 <sup>nd</sup> Annual Conference Indian Society of Transfusion Medicine  | September 13-15, 2013, Bangaluru                         | An overview of various method of hemoglobin estimation in a tertiary cancer care centre                      |
| 14                            | Mr. Ankit Thakkar    | 2 <sup>nd</sup> Annual Conference Indian Society of Transfusion Medicine  | September 13-15, 2013, Bangaluru                         | An evaluation of blood cross-match ordering practices at Gujarat Cancer & Research Institute, Blood Bank     |
| <b>Cell Biology</b>           |                      |   |  |  |
| 15                            | Dr. Dharmesh Patel   | 1 <sup>st</sup> Indian Cancer Congress 2013                               | November 21-24, 2013, New Delhi                          | Significance of cytogenetic studies in all patients: Characterization at Gujarat Cancer & Research Institute |
| <b>Gynecological Oncology</b> |                      |   |  |  |
| 16                            | Dr. Pariseema Dave   | 21 <sup>st</sup> Association of Gynecologic Oncologist of India 2013      | November 8-10, 2013, Jipmer, Pondicherry                 | Cancer control programme - Role of AGOI  |
| 17                            | Dr. Ava Desai        | ADVANCES 2013   | August 30-31, 2013, Thiruvananthapuram                   | Adolescent genital malignancy  |
| 18                            | Dr. Ava Desai        | ADVANCES 2013   | August 30-31, 2013, Thiruvananthapuram                   | New screening guidelines for gynaecologic cancers  |
| 19                            | Dr. Anjana Chauhan   | 21 <sup>st</sup> Association of Gynecologic Oncologist of India 2013      | November 8-10, 2013, Jipmer, Pondicherry                 | Advanced endometrial cancer: Management dilemma  |
| 20                            | Dr. Bijal Patel      | 1 <sup>st</sup> Indian Cancer Congress 2013                               | November 21-24, 2013, New Delhi                          | Geriatric patients with gynecologic malignancy: Surgical experience  |

| No. | Name of Presenter  | Name of Conference   | Date & Venue                             | Title of Presentation  |
|-----|--------------------|--|--|--|
| 21  | Dr. Chetna Parekh  | 1 <sup>st</sup> Indian Cancer Congress 2013                          | November 21-24, 2013, New Delhi          | Uncontrolled hypothyroidism and ovarian tumor  |
| 22  | Dr. Ruchi Arora    | 1 <sup>st</sup> Indian Cancer Congress 2013                          | November 21-24, 2013, New Delhi          | Morbidity and survival following surgery and radiotherapy in node negative carcinoma cervix patients |
| 23  | Dr. Archana Bharti | 1 <sup>st</sup> Indian Cancer Congress 2013                          | November 21-24, 2013, New Delhi          | Demographic profile of adolescent and young adult (AYA) females in Urban Ahmedabad                   |
| 24  | Dr. Neha Bharghav  | 21 <sup>st</sup> Association of Gynecologic Oncologist of India 2013 | November 8-10, 2013, Jipmer, Pondicherry | Long term survival subsequent to five year survival in gynaec malignancies                           |

#### Immunohistochemistry & Flowcytometry

|    |                     |   |                                 |  |
|----|---------------------|---|---------------------------------|--|
| 25 | Dr. Hemangini Vora  | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Immunolocalization of wild type EGFR, Exon 19 E746-A750 frame deletion and Exon 21 L858R point mutation in triple negative breast cancer |
| 26 | Dr. Nilima Desai    | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Expression of FOXA1 and GATA 3 in breast cancer: An Indian expression  |
| 27 | Dr. Shalvi Mehta    | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Detailed analysis of FLT3 and its correlation with anti apoptotic protein Bcl2 in Indian acute myeloid leukemia                          |
| 28 | Ms. Birva Brahmhatt | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Natural killer T cell subpopulations and immune suppression in oral cancer   |

#### Medicinal Chemistry & Pharmacogenomics

|    |                  |   |                                 |   |
|----|------------------|---|---------------------------------|---|
| 29 | Dr. Rakesh Rawal | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Targeted Amplicon sequencing of tongue cancer genome: Indian experience |
|----|------------------|---|---------------------------------|---|

| No.                     | Name of Presenter    | Name of Conference   | Date & Venue                    | Title of Presentation   |
|-------------------------|----------------------|--|---------------------------------|---|
| 30                      | Ms. Krupa Shah       | 1 <sup>st</sup> Indian Cancer Congress 2013  | November 21-24, 2013, New Delhi | Molecular insight into drug resistance to imatinib in Ph+ CML: Multifactorial approach                  |
| <b>Medical Oncology</b> |                      |  |                                 |   |
| 31                      | Dr. Shilin Shukla    | Indian Cooperative Oncology Network 2013   | June 28-29, 2013, Mumbai        | Faculty   |
| 32                      | Dr. Shilin Shukla    | 1 <sup>st</sup> Indian Cancer Congress 2013  | November 21-24, 2013, New Delhi | Faculty   |
| 33                      | Dr. Shilin Shukla    | International Conference of Genetics   | January 23, 2014, Ahmedabad     | Faculty   |
| 34                      | Dr. Shilin Shukla    | Apollo Cancer Conclave   | February 7, 2014, Chennai       | Faculty   |
| 35                      | Dr. Vashishth Maniar | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion 2013 | November 7-10, 2013, Mumbai     | Primary hepatic burkitt's lymphoma: Case report and review of literature                                |
| 36                      | Dr. Vandana Gohel    | MID Conference of Association of Physicians of Gujarat 2013                                    | October 5-6, 2013, Daman        | Clinical experience of ABVD in Hodgkin's lymphoma: A retrospective analysis from regional cancer center |
| 37                      | Dr. Vandana Gohel    | MID Conference of Association of Physicians of Gujarat 2013                                    | October 5-6, 2013, Daman        | A rare cause of Addison's disease   |
| 38                      | Dr. Vandana Gohel    | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion      | November 7-10, 2013, Mumbai     | Unusual presentation of precursor B cell lymphoblastic lymphoma: A case report                          |
| 39                      | Dr. Divyesh Goyal    | 1 <sup>st</sup> Indian Cancer Congress 2013  | November 21-24, 2013, New Delhi | Primary alveolar rhabdomyo sarcoma of upper lip: A case report  |
| 40                      | Dr. Divyesh Goyal    | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion      | November 7-10, 2013, Mumbai     | Accelerated phase of chediak higashi syndrome mimicking lymphoma - A case report                        |

| No. | Name of Presenter    | Name of Conference  | Date & Venue                | Title of Presentation  |
|-----|----------------------|---|-----------------------------|--|
| 41  | Dr. Divyesh Goyal    | MID Conference of Association of Physicians of Gujarat 2013                               | October 5-6, 2013, Daman    | Clinical experience of non anthracycline based chemotherapy (R-CEOP) in treatment of elderly diffuse large B cell lymphoma |
| 42  | Dr. Shreeniwas Raut  | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-10, 2013, Mumbai | A case series of interesting cases of hyper eosinophilia   |
| 43  | Dr. Shreeniwas Raut  | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-10, 2013, Mumbai | Safety and efficacy of eltrombopag in post hematopoetic stem cell transplantation (HSCT) thrombocytopenia                  |
| 44  | Dr. Kaushal Patel    | MID Conference of Association of Physicians of Gujarat                                    | October 5-6, 2013, Daman    | Ifosfssamide induced encephalopathy a unique presentation  |
| 45  | Dr. Kaushal Patel    | MID Conference of Association of Physicians of Gujarat                                    | October 5-6, 2013, Daman    | Deep vein thrombosis in malignancies   |
| 46  | Dr. Kaushal Patel    | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-10, 2013, Mumbai | Febrile neutropenia in haematological malignancy   |
| 47  | Dr. Kaushal Patel    | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-10, 2013, Mumbai | An unusual case of non hodgkin's lymphoma  |
| 48  | Dr. Ravi Wategaonkar | MID Conference of Association of Physicians of Gujarat                                    | October 5-6, 2013, Daman    | Multicentric castleman's disease - A case report   |
| 49  | Dr. Ravi Wategaonkar | MID Conference of Association of Physicians of Gujarat                                    | October 5-6, 2013, Daman    | Haemophagocytic syndrome - A case report   |
| 50  | Dr. Ravi Wategaonkar | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-10, 2013, Mumbai | A case series of plasmablastic lymphoma  |
| 51  | Dr. Saurabh Prasad   | MID Conference of Association of Physicians of Gujarat                                    | October 5-6, 2013, Daman    | Approach to a patient with primary mediastinal large B-cell lymphoma   |



| No.                     | Name of Presenter   | Name of Conference  | Date & Venue                    | Title of Presentation  |
|-------------------------|---------------------|---|---------------------------------|--|
| <b>Nuclear Medicine</b> |                     |   |                                 |  |
| 52                      | Dr. Swati Rachh     | Annual Conference of the Society of Nuclear Medicine India                                | December 12-15, 2013, Mumbai    | Lung and skeletal metastases in patients with differentiated thyroid carcinoma and evaluation of response to radioiodine therapy |
| 53                      | Mr. Omprakash       | Annual Conference of the Society of Nuclear Medicine India                                | December 12-15, 2013, Mumbai    | Assessment of volatilization of radioiodine (I-131) during handling in the nuclear medicine hot laboratory                       |
| <b>Nursing Services</b> |                     |   |                                 |  |
| 54                      | Mrs. Mona Darji     | 1 <sup>st</sup> Indian Cancer Congress 2013   | November 21-24, 2013, New Delhi | Hematopoietic stem cell transplant and nursing management  |
| 55                      | Mrs. Priti Macwan   | 1 <sup>st</sup> Indian Cancer Congress 2013   | November 21-24, 2013, New Delhi | Role of nurse in stoma management  |
| <b>Pathology</b>        |                     |   |                                 |  |
| 56                      | Dr. Kazoomi Patel   | 54 <sup>th</sup> Annual Conference of Indian Society of Haematology and Blood Transfusion | November 7-11, 2013, Mumbai     | A study of hairy cell leukemia - 18 cases  |
| <b>Radiodiagnosis</b>   |                     |   |                                 |  |
| 57                      | Dr. Chirag Sondarva | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association           | January 23-26, 2014, Agra       | Role of HRCT thorax in pediatric neoplasm  |
| 58                      | Dr. Chirag Sondarva | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association           | January 23-26, 2014, Agra       | Ovarian carcinomatosis: The role of radiologist in planning surgical approach  |
| 59                      | Dr. Paresh Patel    | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association           | January 23-26, 2014, Agra       | Posterior mediastinal mass pictorial essay   |
| 60                      | Dr. Paresh Patel    | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association           | January 23-26, 2014, Agra       | Ultrasound evaluation of thyroid nodules - Benign vs. Malignant disease  |

| No. | Name of Presenter   | Name of Conference  | Date & Venue              | Title of Presentation  |
|-----|---------------------|---|---------------------------|--|
| 61  | Dr. Vishal Bhardava | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association | January 23-26, 2014, Agra | Picrotial essay of blastomas                                 |
| 62  | Dr. Vishal Bhardava | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association | January 23-26, 2014, Agra | Role of PET CT in post treatment case of carcinoma of breast |
| 63  | Dr. Hiral Chaudhari | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association | January 23-26, 2014, Agra | Role of CT Scan in imaging of neuroblastoma                  |
| 64  | Dr. Hiral Chaudhari | 67 <sup>th</sup> Annual Conference of Indian Radiological & Imaging Association | January 23-26, 2014, Agra | Role of CT imaging of IVC                                    |

#### Radiotherapy

|    |                   |   |                                      |   |
|----|-------------------|---|--------------------------------------|---|
| 65 | Dr. Puneet Nagpal | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | Metastatic behavior of subtypes in locally advanced cancer breast                   |
| 66 | Dr. Neha Patel    | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | Quality of life in patient of Head & Neck cancer treated by palliative radiotherapy |
| 67 | Dr. Mehul Gohil   | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | Plasmacytoma of rectum  |
| 68 | Dr. Sunil RA      | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | Retrospective analysis of extranodal non hodgkins lymphoma of head and neck cancer  |
| 69 | Dr. Rahul Misra   | M.P. Gujarat Chapter ARIO Conference 2014                         | February 28 to March 3, 2014, Raipur | Role of sialography in head and neck cancer   |
| 70 | Dr. Rahul Misra   | 4 <sup>th</sup> Annual Conference of Indian Brachytherapy Society | March 14-16, 2014, AIIMS, New Delhi  | Role of interstitial brachytherapy in locally advance carcinoma of cervix           |
| 71 | Dr. Rahul Misra   | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | A rare case of RCC with brain mets after 10 yrs                                     |
| 72 | Dr. Rahul Misra   | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | A rare case of cancer of buccal mucosa with cavernous sinus mets                    |
| 73 | Dr. Rahul Misra   | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | A rare case of carcinoma of ovary with axillary metastasis                          |

| No. | Name of Presenter      | Name of Conference  | Date & Venue                         | Title of Presentation   |
|-----|------------------------|---|--------------------------------------|---|
| 74  | Dr. Jyoti Poddar       | M.P. Gujarat Chapter ARIO Conference                              | February 28 to March 3, 2014, Raipur | Metastatic behavior of subtypes in locally advanced carcinoma of breast   |
| 75  | Dr. Jyoti Poddar       | 4 <sup>th</sup> Annual Conference of Indian Brachytherapy Society | March 14-16, 2014, AIIMS, New Delhi  | A retrospective study to compare the response of external beam RT with or without brachytherapy in patients of cancer of oesophagus |
| 76  | Dr. Yamini Patel       | M.P. Gujarat Chapter ARIO Conference                              | February 28 to March 3, 2014, Raipur | Role of reradiation in head and neck cancer   |
| 77  | Dr. Yamini Patel       | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | ALL with breast infiltration  |
| 78  | Dr. Dimpal Gadhesariya | M.P. Gujarat Chapter ARIO Conference                              | February 28 to March 3, 2014, Raipur | Role of HDR brachytherapy using MUPIT in locally advanced gynecological cancer  |
| 79  | Dr. Dimpal Gadhesariya | 1 <sup>st</sup> Indian Cancer Congress 2013                       | November 21-24, 2013, New Delhi      | Gliosarcoma as a second malignancy in a breast cancer patient   |

### Surgical Oncology

|    |                      |  |                                 |  |
|----|----------------------|--|---------------------------------|--|
| 80 | Dr. Rajen Tankshali  | Annual Conference of the Association of Plastic Surgeons of India 2013 | November 24-27, 2013, Mumbai    | Panelist: Gastro intestinal oncology   |
| 81 | Dr. Sandeep Gupta    | 1 <sup>st</sup> Indian Cancer Congress 2013                            | November 21-24, 2013, New Delhi | Comparison between free flap and pectoralis major pedicled flap for reconstruction in oral cavity cancer patients - A quality of life analysis |
| 82 | Dr. Nishant Sanghavi | 1 <sup>st</sup> Indian Cancer Congress 2013                            | November 21-24, 2013, New Delhi | Major pancreatic resections: Two years experiences at our high volume regional cancer centre   |
| 83 | Dr. Vikas Warikoo    | 1 <sup>st</sup> Indian Cancer Congress 2013                            | November 21-24, 2013, New Delhi | Near total laryngectomy: functional and survival outcome in advanced T3 and T4 laryngeal cancer  |
| 84 | Dr. Vikas Warikoo    | Annual Conference of the Association of Plastic Surgeons of India 2013 | November 24-27, 2013, Mumbai    | Free flap reconstruction in head and neck cancer   |

| No. | Name of Presenter  | Name of Conference                          | Date & Venue                    | Title of Presentation                                      |
|-----|--------------------|---|---------------------------------|--|
| 85  | Dr. Nitin Bomanwar | 1 <sup>st</sup> Indian Cancer Congress 2013 | November 21-24, 2013, New Delhi | Triple negative breast cancer: Retrospective study at GCRI |

**Conference Presentation - State  
April 2013 - March 2014**

| No.                   | Name of Presenter     | Name of Conference   | Date & Venue   | Title of Presentation   |
|-----------------------|-----------------------|--|--|---|
| <b>Anesthesiology</b> |                       |  |  |   |
| 1                     | Dr. Jayshree Thakkar  | CME & Workshop on Essentials of Pain Management                    | October 5-6, 2013, B J Medical College, Ahmadabad                | Cancer pain management  |
| 2                     | Dr. Jayshree Thakkar  | 2 <sup>nd</sup> Academic Meets, Ahmadabad                          | October 30, 2013, LG Hospital, Ahmadabad                         | Cancer pain management  |
| 3                     | Dr. Bhavna Shah       | CME on Woman's Health  | February 5, 2014, B J Medical College, Civil Hospital, Ahmedabad | Importance of vitamin D in woman's health   |
| 4                     | Dr. Carolin Smita     | Ahmedabad Association of Anesthesiologist Conference               | April 28, 2013, Ahmadabad  | Comparative study between betametasone gel and lignocaine gel applied on tracheal tube to reduce postoperative sore throat, hoarseness and cough                      |
| 5                     | Dr. Ravi Umarania     | Gujarat State Branch Indian Society of Anesthesiologist Conference | October 19-20, 2013, Baroda                                      | A comparative study between granisetron and palanosetron for post-operative nausea and vomiting in patients undergoing gynecological surgery                          |
| 6                     | Dr. Pooja Chaudhary   | Gujarat State Branch Indian Society of Anesthesiologist Conference | October 19-20, 2013, Baroda                                      | A comparative study of incidence of post extubation sore throat and hoarseness of voice with and without lignocainejelly 2% application on the endotracheal tube cuff |
| 7                     | Dr. Mangala Prajapati | Gujarat State Branch Indian Society of Anesthesiologist Conference | October 19-20, 2013, Baroda                                      | Delayed hydrothorax after subclavian cannulation - A case report  |



| No. | Name of Presenter         | Name of Conference  | Date & Venue                                    | Title of Presentation   |
|-----|---------------------------|---|---|---|
| 8   | Dr. Dinesh Ghoghari       | Gujarat State Branch<br>Indian Society of<br>Anesthesiologist<br>Conference | October 19-20,<br>2013, Baroda                  | Anesthetic management of<br>a huge thyroid goiter with<br>retrosternal extension -<br>A case report                             |
| 9   | Dr. Devendra<br>Prajapati | Gujarat State Branch<br>Indian Society of<br>Anesthesiologist<br>Conference | October 19-20,<br>2013, Baroda                  | An evaluation of<br>medium term venous<br>access in oncology  |
| 10  | Dr. Jalpa Balat           | Gujarat State Branch<br>Indian Society of<br>Anesthesiologist<br>Conference | October 19-20,<br>2013, Baroda                  | Effect of low dose<br>ketamin hydrochloride<br>on tourniquet induced<br>hypertension  |
| 11  | Dr. Sameer Parmar         | 2 <sup>nd</sup> Academic Meets,<br>Ahmedabad                                | October 30, 2013,<br>L G Hospital,<br>Ahmedabad | Studying role of magnesium<br>sulphate in attenuating<br>arterial pressure increase<br>during laparoscopic<br>abdominal surgery |

#### Biochemistry Research

|    |                      |  |   |   |
|----|----------------------|--|---|---|
| 12 | Dr. Prabhudas Patel  | 2 <sup>nd</sup> Annual Meeting on<br>Gujarat Society of<br>Neuro Oncology        | January 18,<br>2014,<br>Ahmedabad                                 | Molecular biology in<br>neuro-oncology:<br>Future directions  |
| 13 | Ms. Bhairavi Vajaria | National Seminar on<br>Biochemistry:<br>A Science Beyond<br>Compartmentalization | December 20-21,<br>2013,<br>M G Science<br>Institute<br>Ahmedabad | Significance of salivary<br>glycosylation changes<br>in oral precancerous<br>conditions and oral cancer |
| 14 | Ms. Shruti Patel     | National Seminar on<br>Biochemistry:<br>A Science Beyond<br>Compartmentalization | December 20-21,<br>2013,<br>M G Science<br>Institute<br>Ahmedabad | Clinical significance<br>of vitamin D signaling<br>and matrix metalloproteinase<br>in breast cancer     |

#### Cell Biology

|    |                           |  |   |   |
|----|---------------------------|--|---|---|
| 15 | Dr. Manisha<br>Brahmbhatt | International Conference<br>on Human Genetics &<br>39 <sup>th</sup> Annual Meeting of<br>Indian Society of Human<br>Genetics | January 22-25,<br>2014, AMA,<br>Ahmedabad | Childhood CML:<br>A cytogenetic sketch and<br>treatment outcome<br>with Imatinib Mesylate         |
| 16 | Dr. Pina Trivedi          | International Conference<br>on Human Genetics &<br>39 <sup>th</sup> Annual Meeting of<br>Indian Society of Human<br>Genetics | January 22-25,<br>2014, AMA,<br>Ahmedabad | Significance of gain<br>and loss of chromosomal<br>abnormalities in AML :<br>An Indian experience |

| No.                            | Name of Presenter      | Name of Conference   | Date & Venue   | Title of Presentation  |
|--------------------------------|------------------------|--|--|--|
| 17                             | Dr. Pina Trivedi       | International Conference On Recent Advances in Cancer Prevention and Therapeutics 2013                           | November 19-20, 2013, Central University of Gujarat, Gandhinagar | Characterization of cryptic rearrangements, complex variants of PML, RARA in acute promyelocytic leukemia                        |
| 18                             | Ms. Esha Dalal         | International Conference on Human Genetics & 39 <sup>th</sup> Annual Meeting of Indian Society of Human Genetics | January 22-25, 2014, AMA, Ahmedabad                              | Cytogenetic characteristics and its diagnosis and prognostic significance of ALL patients at Gujarat Cancer & Research Institute |
| 19                             | Ms. Hiral Patel        | National Conference on Biochemistry - A Science Beyond Compartmentalization                                      | December 20-21, 2013, M G Science Institute, Ahmedabad           | ABL/BCR gene variant with two-step mechanism: unusual localization and rare/novel chromosomal rearrangements in CML patients     |
| 20                             | Ms. Vidita Patadia     | National Conference on Biochemistry - A Science Beyond Compartmentalization                                      | December 20-21, 2013, M G Science Institute, Ahmedabad           | Isochromosome Der(17)(Q)T(15;17) with an additional copy of RARA-PML fusion gene in two young APML patients                      |
| <b>Community Oncology</b>      |                        |  |  |  |
| 21                             | Dr. Parimal Jivarajani | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat             | December 6-8, 2013, Baroda                                       | Community outreach programme in gynecological oncology   |
| <b>Gynaecological Oncology</b> |                        |  |  |  |
| 22                             | Dr. Pariseema Dave     | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat             | December 6-8, 2013, Baroda                                       | Vulva & Gynecologist   |
| 23                             | Dr. Ava Desai          | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat             | December 6-8, 2013, Baroda                                       | Hereditary cancers: Counseling issues  |
| 24                             | Dr. Anjana Chauhan     | CME organised by Obstetric & Gynaecological Society of Himmatnagar   | April 17, 2013, Himmatnagar                                      | Cervical cancer screening  |
| 25                             | Dr. Anjana Chauhan     | CME by IMA & Association of Obstetric & Gynaecological Society   | May 19, 2013, Ahmedabad  | Management of pruritus vulva   |

| No. | Name of Presenter       | Name of Conference   | Date & Venue                                  | Title of Presentation  |
|-----|-------------------------|--|---|--|
| 26  | Dr. Anjana Chauhan      | CME by IMA & Association of Obstetric & Gynaecological Society                                       | May 19, 2013, Ahmedabad                       | Management of pruritus vulva   |
| 27  | Dr. Anjana Chauhan      | CME on Obstetric & Gynecological Society   | September 15, 2013, Vapi                      | Management of cervical cancer  |
| 28  | Dr. Viren Maheshwari    | Ahmedabad Obstetrics & Gynaecological Society  | November 15-17, 2013, V S Hospital, Ahmedabad | Case report on juvenile granulosa cell tumor of ovary                  |
| 29  | Dr. Arun Desai          | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Fertility outcome after EMACO in Gestational Trophoblastic Neoplasia   |
| 30  | Dr. Kavita Mevada       | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Management of young epithelial ovarian tumour - Study of 50 cases      |
| 31  | Dr. Bhoomi Vesetian     | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Management of pre-pubertal girl with bilateral ovarian tumour          |
| 32  | Dr. Jagruti Patel       | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Tubal malignancy – diagnostic dilemma for radiologist and gynecologist |
| 33  | Dr. Mehul Patel         | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Primary mucinous adenocarcinoma of appendix presenting as ovarian mass |
| 34  | Dr. Priyanka Kadam      | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Gastrointestinal Stromal Tumor mimicking as ovarian tumour             |
| 35  | Dr. Dipika Singh        | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Imaging in adnexal mass in pregnancy                                   |
| 36  | Dr. Vaishakhi Chaudhary | 37 <sup>th</sup> Annual Conference of State Organization of Obstetricians & Gynecologists of Gujarat | December 6-8, 2013, Baroda                    | Transverse vaginal septum  |

| No.   | Name of Presenter    | Name of Conference   | Date & Venue                                     | Title of Presentation  |
|---|----------------------|--|--|--|
| <b>Immunohistochemistry &amp; Flowcytometry</b> |                      |  |  |  |
| 37  | Ms. Sandhya Rasalkar | National Seminar on Biochemistry   | December 20-21, 2013, Ahmedabad                  | Study of biomolecules of cancer stem cells & its niches  |
| 38  | Mr. Janak Prajapati  | National Seminar on Biochemistry   | December 20-21, 2013, Ahmedabad                  | Detection of minimal residual disease in acute lymphoblastic leukemia  |
| <b>Medical Oncology</b>                         |                      |  |  |  |
| 39  | Dr. Ankit Patel      | Joint International Conference   | January 10-12, 2014, Ahmedabad                   | Rare case of Bleomycin induced lung toxicity successfully treated corticosteroid   |
| 40  | Dr. Ankit Patel      | 34 <sup>th</sup> Annual Conference of Association of Physicians of Gujarat | February 16, 2014, Baroda                        | Outcome of 18 patients of aplastic anaemia treated antithymocyte globulin-single centre experience                                 |
| 41  | Dr. Pinaki Mahato    | 34 <sup>th</sup> Annual Conference of Association of Physicians of Gujarat | February 16, 2014, Baroda                        | Case of mediastinal lymphoma presented with spontaneous tumor lysis syndrome   |
| <b>Pathology</b>                                |                      |  |  |  |
| 42  | Dr. Satruapa Samanta | CME on Clinical Flow Cytometry   | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Plasma cell leukemia, clinico-hematological profile & role of IPT in clinching the diagnosis                                       |
| 43  | Dr. Satruapa Samanta | CME on Update in Protein Electrophoresis                                   | March 2, 2014, NHL, Medical College, Ahmedabad   | A histopathological profile of neuroendocrine neoplasms of the gastroenteropancreatic system and unknown origin                    |
| 44  | Dr. Krutika Bhatt    | CME on Clinical Flow Cytometry   | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Clinicohematological profile of acute erythroid leukemia (AML-MM6)   |
| 45  | Dr. Krutika Bhatt    | CME on Update in Protein Electrophoresis                                   | March 2, 2014, NHL Medical College, Ahmedabad    | USG guided FNAC of liver masses and its histocytological co-relation and role of immunohistochemistry in diagnosis of liver masses |



| No. | Name of Presenter   | Name of Conference             | Date & Venue                                     | Title of Presentation  |
|-----|---------------------|--------------------------------|--|--|
| 46  | Dr. Shailee Mehta   | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Hairy cell leukemia  |
| 47  | Dr. Tanvi Gupta     | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Acute leukemia of antibiguous lineage – diagnostic role of immunophenotyping                             |
| 48  | Dr. Anupama Patil   | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Comparison of CD59 Vs. CD55 as a diagnostic marker in paroxysmal nocturnal hemoglobinuria                |
| 49  | Dr. Jaydeep Baraiya | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Hypocellular AML: A case report  |
| 50  | Dr. Mitul Modi      | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Brain tumors following treatment of acute lymphoblastic leukemia   |
| 51  | Dr. Neha Nagrani    | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Flow cytometric immunophenotyping in acute leukemia  |
| 52  | Dr. Vishal Modi     | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Acute promyelocytic leukemia presenting with HLA-DR and CD34 positivity on flow cytometry: A case report |
| 52  | Dr. Mitesh Rathva   | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Flow cytometry: Principles and uses in hematology  |
| 54  | Dr. Kazoomi Patel   | CME on Clinical Flow Cytometry | February 22-23, 2014, Cama Hall, GCRI, Ahmedabad | Sezary syndrome- A case report of peripheral T-cell lymphoma   |

| No.                   | Name of Presenter   | Name of Conference                     | Date & Venue                 | Title of Presentation                                       |
|-----------------------|---------------------|--|------------------------------|---|
| <b>Radiodiagnosis</b> |                     |  |                              |   |
| 55                    | Dr. Jenny Gandhi    | Indian Society of Paediatric Radiology | October 5-6, 2013, Ahmedabad | Retinoblastoma: Role of USG, Doppler, CT and MRI in imaging |
| 56                    | Dr. Chirag Sondarva | Indian Society of Paediatric Radiology | October 5-6, 2013, Ahmedabad | Role of HRCT thorax in paediatric neoplasm                  |
| 57                    | Dr. Paresh Patel    | Indian Society of Paediatric Radiology | October 5-6, 2013, Ahmedabad | Posterior mediastinal mass pictorial essay                  |
| 58                    | Dr. Vishal Bhardava | Indian Society of Paediatric Radiology | October 5-6, 2013, Ahmedabad | Pictorial essay of blastomas                                |
| 59                    | Dr. Hiral Chaudhari | Indian Society of Paediatric Radiology | October 5-6, 2013, Ahmedabad | Role of CT scan in imaging of neuroblastoma                 |



# R. PURCHASE LIST OF EQUIPMENTS 2013 – 2014

123

| No.                        | Name of Equipment   | Qty. | Company Name                         | Price                    |              | Received Date | Installation Date | Warranty Upto |
|----------------------------|---|------|--------------------------------------|--------------------------|--------------|---------------|-------------------|---------------|
|                            |   |      |                                      | Foreign                  | Indian (Rs.) |               |                   |               |
| <b>Microbiology</b>        |   |      |                                      |                          |              |               |                   |               |
| 1                          | Air Petri Sampling System Mark II with Remote Control & Rechargeable Battery Model : LA637 Hi-Media                                   | 1    | M/s. Dynamic Marketing House         |                          | 119175       | 12/09/2013    | 12/09/2013        | 11/09/2014    |
| 2                          | Remi Revolutionary Research Centrifuge Model REMI R-23 with REMI Cat No.R-239 Angle Head  | 1    | M/s. Ultra Scientific Instrument Co. |                          | 104940       | 20/09/2013    | 21/10/2013        | 20/10/2015    |
| <b>Cytology</b>            |   |      |                                      |                          |              |               |                   |               |
| 1                          | Remi Revolutionary Microprocessor Centrifuge Model –REMI R 8C BL With R-81  | 1    | M/s. Ultra Scientific Instrument Co. |                          | 37618        | 07/10/2013    | 18/10/2013        | 17/10/2015    |
| <b>Administrative Wing</b> |   |      |                                      |                          |              |               |                   |               |
| 1                          | TOSHIBA e-356SE Digital Copier With Duplex  | 1    | M/s. Jayesh Corporation              |                          | 186732       | 16/08/2013    | 17/08/2013        | 16/08/2014    |
| 2                          | Digital Duplicator Machine, Computer Compatible Without Computer Interface Card, For High Speed Printing Make : Duplo Model : DPU 850 | 1    | M/s. Jayesh Corporation              |                          | 731844.45    | 12/10/2013    | 15/10/2013        | 12/10/2014    |
| <b>Neuro Oncology</b>      |   |      |                                      |                          |              |               |                   |               |
| 1                          | Drager Savina ICU Ventilator (Adult, Paediatric)  | 1    | Surgiworld Healthcare                |                          | 1800000      | 16/04/2013    | 09/05/2013        | 08/05/2018    |
| 2                          | OPMI VARIO 700 Surgical Neuro Microscope Mfg. By : Carl Zeiss Meditech AG, Germany  | 1    | M/s. Regulus Marketing Pvt. Ltd.     | EURO 84244 + Custom Duty |              | 07/06/2013    | 12/06/2013        | 11/06/2018    |
| 3                          | Karl Storz Neuro Endoscope With Accessories   | 1    | Surgiworld Healthcare                |                          | 6410037      | 22/07/2013    | 25/10/2013        | 24/10/2018    |
| 4                          | High Speed Electrical Drill - Aesculap Model - Micro speed UNI MFG B. Bruan Medical   | 1    | M/s. Western Trading Co.             |                          | 4171726.41   | 06/01/2014    | 09/01/2014        | 08/01/2019    |

| No.                          | Name of Equipment  | Qty.               | Company Name                               | Price                   |                      | Received Date | Installation Date | Warranty Upto |
|------------------------------|--|--------------------|--|-------------------------|----------------------|---------------|-------------------|---------------|
|                              |  |                    |  | Foreign                 | Indian (Rs.)         |               |                   |               |
| <b>Cell Biology Division</b> |  |                    |  |                         |                      |               |                   |               |
| 1                            | Automatic Karyotyping System with accessories  | 1                  | Carl Zeiss (MetaSystems Hard and Software) | EURO 139902             |                      | 26/06/2013    | 19/07/2013        | 18/07/2018    |
| <b>Anesthesia (OT)</b>       |  |                    |  |                         |                      |               |                   |               |
| 1                            | Anesthesia Delivery System - 6 Nos. Model : Fabius Plus-3 Gas with Vapore 2000 Vista XL, SC104 Dragger-Germany (M/s. Dragger Medical India Pvt. Ltd. ) | 6 No. NOT-1, MOT-5 | M/s.Surgiworld Healthcare                  | EURO 98550+ Custom Duty |                      | 17/05/2013    | 21/05/2013        | 20/05/2015    |
| 2                            | Pulmonary Function Test Model-Helius 702   | 1                  | M/s.Mangalmurti Corporation                |                         | 182000               | 10/10/2013    | 10/10/2013        | 09/10/2016    |
| <b>Central Lab</b>           |  |                    |  |                         |                      |               |                   |               |
| 1                            | Beckman Coulter Cell Counter   | 1                  | Beckman Coulter India Pvt. Ltd.            |                         | Reagent Rental Basis | 29/05/2013    | 20/06/2013        | 19/06/2018    |
| 2                            | Remi Microprocessor Research Centrifuge Model – REMI PR-23 with 230-231 Swing Out Head & Ra2314 Reduction Adaptor                                      | 2                  | M/s. Ultra Scientific Instrument Co.       |                         | 178200               | 20/09/2013    | 21/10/2013        | 20/10/2015    |
| 3                            | Capillary Electrophoresis System With Accessories & Power Supply Unit  | 1                  | M/s. Trivitron Healthcare                  |                         | 1400490              | 26/11/2013    | 07/12/2013        | 06/12/2018    |
| <b>Histopathology</b>        |  |                    |  |                         |                      |               |                   |               |
| 1                            | Tissue Processor Model - YSI 103 Yorco   | 2                  | M/s. Ultra Scientific Instrument Co.       |                         | 630000               | 02/09/2013    | 10/09/2013        | 09/09/2018    |
| 2                            | Bright Tissue Floatation Bath Model - BTI 2041   | 2                  | M/s. Marco Scientific Instruments          |                         | 33600                | 14/02/2014    | 14/02/2014        | 13/02/2015    |
| 3                            | Thermo Shandon Model -Histo Star Tissue Embedding System with Accessories  | 1                  | M/s. Labcon Scientific Instruments         |                         | 1365750              | 31/01/2014    | 12/02/2014        | 11/02/2019    |
| 4                            | Thermo Shandon Model EXCELSIOR ES Tissue Processor   | 1                  | M/s. Labcon Scientific Instruments         |                         | 3099375              | 31/01/2014    | 12/02/2014        | 11/02/2019    |



| No.                                   | Name of Equipment   | Qty. | Company Name                              | Price   |                      | Received Date | Installation Date | Warranty Upto |
|---------------------------------------|---|------|---|---------|----------------------|---------------|-------------------|---------------|
|                                       |   |      |   | Foreign | Indian (Rs.)         |               |                   |               |
| 5                                     | Tissue Floatation Bath Free With Thermo Shandon Model-Histo Star Tissue Embedding System with Accessories | 1    | M/s. Labcon Scientific Instruments        |         | Free of Cost         | 19/03/2014    | 19/03/2014        |               |
| 6                                     | Incubator Free With Thermo Shandon Model Histo Star Tissue Embedding System with Accessories              | 1    | M/s. Labcon Scientific Instruments        |         | Free of Cost         | 19/03/2014    | 19/03/2014        |               |
| <b>BioChemistry Research Division</b> |   |      |   |         |                      |               |                   |               |
| 1                                     | Revco Ultra Low Deep Freezer -80°C Model -UXF60086V Mfg. Thermo Scientific                                | 1    | M/s. J. B. Healthcare                     |         | 933940               | 16/01/2014    | 13/02/2014        | 12/02/2019    |
| <b>Blood Bank</b>                     |   |      |   |         |                      |               |                   |               |
| 1                                     | Fully Automated Grouping / Cross Maching / Antibody Screening System Model - QWALYS 38 Needle             | 1    | M/s.Nisha Sales                           |         | Reagent Rental Basis | 14/11/2013    | 21/11/2013        | 20/11/2018    |
| 2                                     | Semi Automated Coagulation Analyzer Model-CL Analyzer   | 1    | M/s. Instrumentation Lab. India Pvt. Ltd. |         | Reagent Rental Basis | 01/02/2014    | 12/02/2014        | 12/02/2019    |
| 3                                     | Apheresis (Fresenius Kabi) Equipment Reagent Rental Basis   | 1    | M/s. Nisha Sales                          |         | Reagent Rental Basis | 22/08/2013    | 20/11/2013        | 19/11/2018    |
| <b>DSU</b>                            |   |      |   |         |                      |               |                   |               |
| 1                                     | Syringe Infusion Pump Model-101   | 2    | M/s.Unique Enterprise                     |         | 74550                | 02/11/2013    | 07/01/2014        | 06/01/2017    |



**THE GUJARAT CANCER & RESEARCH INSTITUTE**

(M. P. SHAH CANCER HOSPITAL)

**FINANCIAL STATEMENT  
(BALANCE SHEET)  
2013-2014**

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**N. M. NAGRI & CO.**  
**CHARTERED ACCOUNTANTS**

\*A\* Block, 5<sup>th</sup> Floor, A-1 & A-2, Safal Profitaire, Opp. Prahlad Nagar Garden, Near Hotel Ramada,  
 Prahlad Nagar, Ahmedabad-380 015 Tele:(079) 40064694, 40064695, 40061203 ♦E-mail: nmnagri@hotmail.com

**Independent Auditors' Report**

**Name of the Public Charitable Trust – THE GUJARAT CANCER & RESEARCH INSTITUTE**  
**Registration No. F/451/AHD**

We have audited the accompanying financial statements of **THE GUJARAT CANCER & RESEARCH INSTITUTE (the Institute)** which comprise the Balance Sheet as at March 31, 2014 and the Income and Expenditure Account for the year then ended, and a summary of Significant Accounting Policies and other explanatory information.

**Management's responsibility for the Financial Statements**

Management is responsible for the preparation of these financial statements in accordance with The Bombay Public Trusts Act, 1950. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

**Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. These Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risks assessments, the auditor considers internal control relevant to the Trust's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Trust's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management, as well as evaluating the overall presentation of the financial statements.



**N. M. NAGRI & CO.**  
**CHARTERED ACCOUNTANTS**

‘A’ Block, 5<sup>th</sup> Floor, A-1 & A-2, Safal Profitaire, Opp. Prahlad Nagar Garden, Near Hotel Ramada,  
 Prahlad Nagar, Ahmedabad-380 015 Tele:(079) 40064694, 40064695, 40061203 ♦E-mail: [nmnagri@hotmail.com](mailto:nmnagri@hotmail.com)

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

**Opinion**

In our opinion and to the best of our information and according to the explanations given to us, the financial statements of the Institute for the year ended on March 31, 2014 are prepared, in all material respects, in accordance with The Bombay Public Trusts Act, 1950.

In addition to above, we further report that :

1. The accounts are maintained regularly and in accordance with the provisions of The Bombay Public Trusts Act and the Rules.
2. The Receipts and disbursements are properly and correctly shown in the Accounts.
3. The Cash balance and vouchers are in the custody of the Manager/Trustee on the date of audit and are in agreement with the Accounts.
4. Books, Deeds, Accounts, vouchers and other documents and records required by us were produced before us.
5. The inventory, certified by the Trustees, of the movable properties of the Trust has been maintained.
6. The Manager/Trustee appeared before us and furnished the necessary information required by us.
7. The property or Funds of the Trust were not applied for any object or purpose other than the objects or purposes of the Trust.
8. The amounts outstanding for more than one year are Rs. Nil and the amounts written off are Rs. Nil.
9. Tenders were invited for repairs and construction where the expenditure exceeded Rs. 5000/-
10. No money of the Public Trust has been invested contrary to the provisions of Section 35.
11. No alienation of immovable property has been made contrary to the provisions of Section 36.
12. The books of account are maintained on mercantile system of accounting

For N.M. NAGRI & Co.  
 Chartered Accountants  
 Firm Registration No. 106792W



*(Handwritten Signature)*

(N.M. NAGRI)  
 Proprietor  
 Membership No. 16992

Place : AHMEDABAD  
 Date : 27/06/2014

**THE BOMBAY PUBLIC TRUSTS ACT, 1950**  
**THE GUJARAT CANCER & RESEARCH INSTITUTE, AHMEDABAD**  
**BALANCE SHEET AS AT 31ST MARCH, 2014**

REGISTRATION NO. F/451/AHD

| Particulars   | Schedule | As at                |                      |
|---|----------|----------------------|----------------------|
|   |          | 31st March 2014      | 31st March 2013      |
|   |          | ₹                    | ₹                    |
| <b>FUNDS AND LIABILITIES</b>  |          |                      |                      |
| Corpus Fund   | 1        | 19,108,565           | 19,108,565           |
| Capital Funds   | 2        | 881,537,537          | 697,014,706          |
| Capital and Other Funds Received from Gujarat Cancer Society  | 3        | 315,991,214          | 315,991,214          |
| Project Funds   | 4        | 148,908,069          | 82,514,700           |
| Secured Loan (Secured against lien on Fixed Deposits)   |          | -                    | 16,612,613           |
| Current Liabilities   | 5        | 309,889,820          | 344,134,946          |
| <b>Total</b>  |          | <b>1,675,435,205</b> | <b>1,475,376,744</b> |
| <b>ASSETS</b>   |          |                      |                      |
| <b>Fixed Assets:</b>  |          |                      |                      |
| Gross Block   | 6        | 961,918,688          | 911,143,962          |
| Less: Depreciation  |          | 494,372,031          | 470,476,071          |
| Net Block   |          | 467,546,657          | 440,667,891          |
| Capital Work-in-Progress  |          | 431,919              | -                    |
| Investment in 1000(P.Y.1000) Fully Paid up Equity Shares of Rs.25 each of Textile Traders Co-operative Bank Limited |          | 25,000               | 25,000               |
| Inventories   | 7        | 6,991,469            | 7,706,571            |
| Advances, Deposits and Others   | 8        | 37,113,312           | 67,148,007           |
| Cash & Bank Balances  | 9        | 511,052,767          | 312,179,820          |
| Balance of Income & Expenditure A/c,  |          | 652,274,081          | 647,649,455          |
| <b>Total</b>  |          | <b>1,675,435,205</b> | <b>1,475,376,744</b> |
| Significant Accounting Policies and Notes forming part of the Financial Statements                                  | 14       |                      |                      |

As per our attached Report of even date

For, N. M. NAGRI & CO.

CHARTERED ACCOUNTANTS

Firm Registration No. 106792W



(N. M. NAGRI)  
PROPRIETOR

Membership No. 16992

PLACE: AHMEDABAD

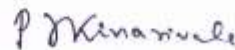
DATE: 27 JUN 2014




CHAIRMAN



INCHARGE DIRECTOR



MEMBERS OF THE

GOVERNING BOARD

PLACE: AHMEDABAD

DATE: 27.6.2014



**THE BOMBAY PUBLIC TRUSTS ACT, 1950**  
**THE GUJARAT CANCER & RESEARCH INSTITUTE, AHMEDABAD**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2014**  
**REGISTRATION NO. F/451/AHD**

| Particulars  | Schedule | Year ended           |                      |
|--|----------|----------------------|----------------------|
|  |          | 31st March 2014      | 31st March 2013      |
|  |          | ₹                    | ₹                    |
| <b>INCOME</b>  |          |                      |                      |
| Grants received from Government of Gujarat   |          | 552,867,000          | 479,110,000          |
| Hospital Fees  |          | 455,807,592          | 412,373,928          |
| Other Income   | 10       | 29,548,569           | 26,896,744           |
| <b>Total</b>   |          | <b>1,038,223,161</b> | <b>918,380,672</b>   |
| <b>EXPENDITURE</b>   |          |                      |                      |
| Establishment Expenses   | 11       | 490,057,475          | 446,510,472          |
| Hospital Expenses  | 12       | 425,195,833          | 379,369,910          |
| Other Operating Expenses   | 13       | 95,014,324           | 79,778,125           |
| Depreciation   | 6(3)     | 32,580,155           | 40,523,484           |
| <b>Total</b>   |          | <b>1,042,847,787</b> | <b>946,181,991</b>   |
| Excess of Expenditure over Income for the year                                     |          | (4,624,626)          | (27,801,319)         |
| Deficit brought forward from Previous year   |          | (647,649,455)        | (619,848,136)        |
| Deficit Carried to the Balance Sheet   |          | <b>(652,274,081)</b> | <b>(647,649,455)</b> |
| Significant Accounting Policies and Notes forming part of the Financial Statements | 14       |                      |                      |

As per our attached Report of even date

For, N. M. NAGRI & CO.  
 CHARTERED ACCOUNTANTS  
 Firm Registration No. 106792W



(N. M. NAGRI)  
 PROPRIETOR  
 Membership No. 16992  
 PLACE: AHMEDABAD  
 DATE: 27 JUN 2014



  
 CHAIRMAN

  
 INCHARGE DIRECTOR

  
 MEMBERS OF THE GOVERNING BOARD

PLACE: AHMEDABAD  
 DATE: 27/6/2014

# ACKNOWLEDGMENT

Our sincere thanks and gratitude to:

Shri Omprakash Kohliji, His Excellency the Governor of Gujarat  
 Smt. Aanandiben Patel, Hon'ble Chief Minister, Gujarat State  
 Shri Nitin Patel, Hon'ble Health Minister, Gujarat State  
 Shri Dr. Varesh Sinha, IAS, Chief Secretary, Govt. of Gujarat  
 Shri Anil Mukim, IAS, Principal Secretary, Health & Family Welfare Dept., Govt. of Gujarat  
 Shri J. P. Gupta, IAS, Principal Secretary & Commissioner of Health, Govt. of Gujarat  
 Shri Sanjeev Kumar, IAS, Secretary, Finance Dept. (Exp), Govt. of Gujarat  
 Chairman / MD, GMDC, Ahmedabad  
 Dy. Director General, Dte. General & Health Services  
 Ministry of Health & Family Welfare, Govt. of India  
 Director (IF), Ministry of Health & Family Welfare, Govt. of India  
 Mayor, Ahmedabad Municipal Corporation  
 Municipal Commissioner, Ahmedabad  
 Superintendent, Civil Hospital, Ahmedabad  
 Dean, Govt. Dental College, Ahmedabad  
 Dean, B.J. Medical College, Ahmedabad  
 Director General, Indian Council for Medical Research, New Delhi  
 Dr. A. Nandakumar, Officer-Incharge, ICMR, NCRP, Bangalore  
 Director, NIOH, Ahmedabad  
 Vice Chancellor, Gujarat University, Ahmedabad  
 Department of Health & Family Welfare, Govt. of Gujarat  
 Ministry of Health & Family Welfare, Govt. of India  
 Director General of Department of Science & Technology, New Delhi  
 Director General of Department of Biotechnology, New Delhi  
 Commissioner of Police, Ahmedabad  
 Gujarat Cancer Society, Ahmedabad  
 Social Organisations providing helping hand to our day today activities  
 All staff members of Gujarat Cancer & Research Institute and Gujarat Cancer Society Parivar  
 Director, Institute of Kidney Diseases & Research Centre  
 Director, U. N. Mehta Institute of Cardiology & Research Centre  
 Dean and all staff members of GCSMC&H

## Annual Report Preparation Committee

|  |                                       |
|--|---------------------------------------|
| Dr. Geeta Joshi  | Heads of Departments/ Units/ Services |
| Dr. Hemangini Vora, Dr. Trupti Trivedi                       | Heads of Administrative Sections      |
| Mr. Dharmesh Panchal, Mr. Rushi Patel, Mr. Mahendra Kumpavat |                                       |





# GCRI MISSION



**Early Detection**



**Surgical treatment**



**Chemotherapy**



**Radiation therapy**



**Palliative care**



**Awareness & Prevention**



**Research**



**Training & Education**