The Gujarat Cancer & Research Institute

(M. P. Shah Cancer Hospital) **STATE CANCER INSTITUTE** (Recognized by Ministry of Health & Family Welfare, Govt. of India)





Annual Report 2017 - 2018

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> Shri Kshitish Madanmohan Secretary, Gujarat Cancer Society Member

Dr. Shashank Pandya

Incharge Director, GCRI Member Secretary



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

THE GUJARAT CANCER & RESEARCH INSTITUTE

(M. P. SHAH CANCER HOSPITAL) Affiliated to B J Medical College

STATE CANCER INSTITUTE

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

MEMBER OF UICC



global cancer control International Union Against Cancer (UICC)

ANNUAL REPORT 2017 - 2018

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Our Mission

The mission of the GCRI is to provide state-ofthe 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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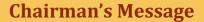
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Communities worldwide are grappling with the scourge of cancer. Slowly and gradually this menace has become a health hazard creeping in quietly and devastating our lives.

More than 14 million new cases of cancer are reported every year across the globe and the number of new cases is expected to rise by 70 percent in the next two decades, as estimated by the World Health Organisation. In India, cancer is a major cause of morbidity and mortality. On an average nearly 1500 people battle this disease every day and it has become one of the leading causes of death in the country. It is also increasingly impacting the quality of life with the Lung, Liver, Colorectal, Stomach and Breast emerging as the most common causes of cancer.

Having said that, I believe that amidst this growing menace is also a ray of hope. It is estimated that about 30% to 50% of cancers can be prevented by controlling the modifiable risk factors such as tobacco use, alcohol use, unhealthy diet and physical inactivity, amongst others. In addition, a significant proportion of cancers can be cured, by surgery, radiotherapy or chemotherapy, especially if they are detected early.

In many urban and rural households, cancer treatment is disrupted due to lack of awareness, denial and delayed diagnosis and treatment. Early diagnosis and treatment of cancer can truly make a difference. This is what defines the mission of the Gujarat Cancer & Research Institute (GCRI), reaching out to the patients suffering from cancer especially from the financially disadvantaged sections with best-in-class services in prevention, detection, treatment and palliation in the field of cancer.

Since its inception in 1972, GCRI has been leading the fight against cancer providing world-class facilities for cancer diagnosis, treatment, care, research, rehabilitation and education. Over the last five decades, it has established itself as the most affordable centre for bone marrow transplantation in malignant and non-malignant conditions.

To provide an overview on the year gone by, 30,163 new cancer patients registered and 3,94,712 patients attended OPD during the year. 1,20,616 radiological, 1,54,759 histologic and cytologic and 7,69,297 laboratory investigations were performed at the Institute. Nearly 6023 major surgeries and 15667 minor surgeries including IVTC were performed, 9180 patients underwent radiotherapy, 55390 patients were treated with chemotherapy and 42 patients underwent bone marrow transplantation.

Pain management is critical for cancer patients, especially in patients suffering from advanced stages of cancer. This is addressed by the palliative medicine department of the institute. During the year, 13768 patients were offered palliative care for pain management, 563 patients were given Home Care Services and 298 patients at the Hospice Centre.



GCRI is a part of the cancer registry programme ensuring good quality data necessary for planning of health service and carrying out cancer control programmes. The Hematology, Flow Cymetry and Microbiology Laboratories of GCRI are NABL accredited since 2011.

The Gujarat Cancer & Research Institute has been at the forefront in the fight against cancer through awareness and prevention programmes, preventive health check-ups, setting up super specialities in cancer care and other areas like physiotherapy, hospice care, stoma clinic, speech therapy, prosthesis and rehabilitation.

Today, GCRI specialises in surgical oncology, medical oncology, radiation oncology, preventive oncology, paediatric oncology, neuro-oncology, gynaec-oncology, radio diagnosis and nuclear medicine, pathology and microbiology and laboratory medicine led by a team of highly qualified doctors and surgeons.

Placing an impetus on innovation, GCRI has also been promoting basic research at its five well-equipped research laboratories on several aspects of cancer biology for early diagnosis, monitoring, prognostication and cancer management. The institute also promotes academic courses like DM, MCh, MD, DMRE, DA, DCP, DGO in oncology as well as M.Sc.in Cancer Biology and PhD in Life science.

While we have made a beginning in waging a war against this deadly disease, there is still a long way to go in this battle. I am confident that we will make headway as GCRI is blessed with a team of dedicated and highly committed doctors, physicians, surgeons, academicians, researchers and administrators who will continue to lead this fight against cancer with their knowledge, skills, care and compassion.

Date : July 29, 2018

Pankaj R. Patel, Chairman, Governing Board, GCRI



From The Desk of Incharge Director



Gujarat Cancer & Research Institute (GCRI) established in 1972 and in a journey of 46 years metamorphosed as State Cancer Institute. The Institute has comprehensive facilities for patient care, teaching and research. GCRI is instrumental in the development of tertiary cancer centers (TCC) in the state. GCRI has developed Siddhpur Cancer Center and establishing new TCCs functional at Rajkot.

GCRI focuses on four major areas: 1) providing state-of-the-art diagnostic and therapeutic management by multidisciplinary team, 2) treating patients with cancer pain and with terminal stage, 3) reducing cancer burden in Gujarat State by conducting community out-reach programs, early detection camps, regular health check-up programs, and 4) offering medical education and research.

Comprehensive Cancer Care:

GCRI offers cutting-edge cancer treatment options at high levels of care and convenience, and help improve cancer survival rates. Institute manages adult and paediatric cancer patients with 650 beds facility. Twenty-one clinical departments including super specialty with other support services involved in treatment of all types of cancers. This year 29,952 new cancer patients registered and 3,58,499 patients attended OPD. The most common three leading sites of cancer observed in men are oral cavity except tongue (21.92%), tongue (12.18), lung (10%) and in women are breast (21.45%), cervix uteri (17.18%), mouth (6.77%). In a year, 1,18,983 radiological, 1,84,913 histologic and cytologic, and 17,54,904 laboratory investigations were performed. Further, 4,372 major surgeries and 16,520 minor surgeries including IVTC was performed, 10,226 patients treated with Radiotherapy, 49,605 patients treated with chemotherapy and 28 patients with Bone Marrow Transplantation. The Hematology, Flow Cytometry and Microbiology Laboratories are NABL Accredited since 2011.

GCRI caters cancer care to the poorest of poor with quality service to the cancer patients of Gujarat, Rajasthan, Madhya Pradesh, Maharashtra and other states. MA Yojana, MA Vatsalya Yojana, Low Income Group Scheme, School Health Program, S.C., S.T. and other Government Schemes help to serve low socioeconomic group with better cancer care.

Palliative & Hospice Care

Pain is a common symptom for cancer patients, especially patients with advanced stage of cancers. Cancer pain and treatment of terminally ill patients are managed by palliative medicine department, Hospice Centre and Home Care Services. This year 18,854 patients with cancer pain are managed at the institute, 114 patients by Home Care Services and 225 patients at Hospice Centre.



Community Awareness and Detection Campaign

The campaign aims to provide awareness on cancer, early detection and tips for prevention for various cancers thereby to reduce morbidity and mortality through cancer awareness and detection camps. This year 5,218 people visited in 22 cancer education camps, and 265 suspicious cancer cases were referred to GCRI through 78 Cancer Detection and Sanjeevani Rath Camps.

Education & Research

GCRI provides medical education and training to future health professionals. The medical education of the institute is affiliated to B J Medical College for conducting MD, D.M./M.Ch. courses in oncology and 145 medical students are enrolled. Ph.D. in Life Sciences and Microbiology affiliated with Gujarat University are also conducted at the institute. Scientists of Cancer Biology department mentor 8 PhD students and 35 MSc Cancer Biology students. There are 57 research publications, 2 International, 32 National and 67 State Conference presentations with 28 ongoing research projects with 18 clinical trials. This year 13 staff members supported for training and scientific workshops.

In coming year GCRI will move in new building and diligent to get NABH Accreditation. We continue to strive towards our mission to powerful and innovative therapies to cancer patients, improve quality of life and restore hope. We wish to emerge as global leader in cancer control and to accelerate the pace of groundbreaking translational research that can get life saving new therapies.

Date : July 29, 2018

Dr. Shashank Pandya, In-charge Director



GCRI Profile At A Glance

GCRI - Speciality Hospital for Cancer Regional Cancer Centre

- 650 indoor beds Largest Cancer Hospital of the country
- 29,952 New Cases
- 3,58,499 Outdoor patients
- 2,20,137 Indoor admissions
- 17,54,904 Laboratory tests
- 1,84,913 Histologic, Cytologic and Bone Marrow examinations
- 1,18,983 Imaging and Radiological investigations
- 21,335 Major and Minor Surgeries
- 49,605 Chemotherapy Treatment
- 10,226 Radiation Treatment

GCRI - Speciality Medical Education Centre

- DM Medical Oncology
- MCh Surgical Oncology, Gynaecological Oncology
- MD Pathology, Microbiology, Radiodiagnosis, Gynaecological Oncology, Anaesthesiology, Radiotherapy
- DMRE Radiodiagnosis; DA Anaesthesiology; DCP – Pathology; DGO – Gynaecological Oncology
- Postgraduate Students 145 Students
- PhD Life Sciences & Medical Microbiology 13 Students
- MSc in Cancer Biology 40 Students
- Diploma in Medical Laboratory Technologists 50 Students



GCRI Profile At A Glance

GCRI - Research Organisation

- 6 well equipped Research Labs
- 28 on-going Research Projects; 18 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/IACA
- Clinical Research hub for National and International drug trials

GCRI – Community Commitments

- National Registry Programme ICMR
- Prevention of Cancer Anti-tobacco Drive & Tobacco Cessation Centre
- Early Detection Health Checkup & Cancer Detection Camps
- Cancer Awareness: Exhibition, Cancer Information Center
- Hospice Care; Home Service Care
- Poor Patient Support
- Telepathology and Telemedicine Projects
- Patient Care Evaluation Committee
- Sanskar Chowk (Entertainment and Education of Patients and their Relatives)
- Night Shelter for Patient's Relatives



A. Anaesthesiology

Professor & Head: Dr. Bipinbhai Patel Professors: Dr. Bhavna Shah, Dr. Jayshree Thakkar Associate Professors: Dr. Dipika Patel, Dr. Neeta Gosai, Dr. Damini Makwana, Dr. Leena Patel Assistant Professors: Dr. Kinna Shah, Dr. Bijal Shah, Dr. Priti Patel, Dr. Madhuri Bhade, Dr. Rekha Solanki Junior Lecturers: Dr. Jenish Patel, Dr. Amita Jansari, Dr. Misha Agarwal, Dr. Tanmaya Tank



Clinical Services: The department provides services of anesthesia for oncosurgical patients. Anesthesia services are provided during peri-operative period, which includes pre-anesthetic checkup and anesthesia fitness, intra-operative management and post-operative care of the patients. Our department provides anesthesia or monitored anesthesia care as per the requirement of the patient and surgeons. Different super specialties like Plastic surgery, Musculo-skeleton surgeries, Urology surgeries, Neuro Oncology; Gynecological surgeries etc. are involved in treatment of cancer. Treatment and care of critically ill patients in ICUs (Surgical, Medical and Neuro Oncology) is part of anesthesia services. These services are provided for all major and minor surgical procedures, gynecological surgeries, neurological surgeries and day stay surgeries. Anesthesia department also gives services for either providing anesthesia or providing only monitoring care for radiotherapy patients, patients undergoing radiological procedures, invasive procedures in IVTC or CT scan, PET Scan and MRI. Our department takes lead in peripheral venous access as well as central venous access as per requirement of the patient. All emergency calls for resuscitation, monitored anesthesia and venous access are attended by the departmental staff. The department provides emergency services in all the wards for central / peripheral venous access of the patient as well as pulmonary function tests measurement.



Details of Work Done	Number
Major Operations, DSU OT (Elective and Emergency surgeries)	4957+368
Neuro OT Elective, Emergency surgeries	969+4
Day Stay Unit (GA + LA) 6730	
CT Scan, MRI, USG Guided Biopsy, PET Scan	139+74+45+2
Intra Cavitory Radium and Implant under Anesthesia 988	
Radiotherapy in pediatric patients under Anesthesia 587	
Interventional Therapy under anesthesia (IVTC)	309
Central venous access and LP	348+15

Major Achievements: Dr. Bipin Patel, Professor and Head, received Dr. P. R. Trivedi Oration in the Conference of Gujarat State Branch of IMA in November 2017.

Dr. Bhavna Shah, Professor, invited as a guest speaker in National Conference of Indian Society for The Study of Pain at New Delhi in February 2018, and in Gujarat Government State Level Training on Palliative Care for doctors and paramedical staff in December 2017. She was felicitated by ISA-GSB for her outstanding work as Hon. Secretary cum Treasurer during 2001-2009.

Dr. Jayshree Thakkar, Professor, was invited as Faculty at ISA Sponsored 1st West Zone PG Assembly 2017 at B J Medical College, Ahmedabad, October 27-29, 2017.

Dr. Dipika Patel, Associate Professor, participated as faculty in 13th ISACON West Zone and 19th ISACON at AIIMS, Jodhpur, on September 2-3, 2017 and in ISACON GUJARAT 2017 on October 6-8, 2017 at Ahmedabad. She was mock exam faculty at ISA Sponsored 1st West Zone PG Assembly 2017 at B J Medical College, Ahmedabad, October 27-29, 2017.

Dr. Nita Gosai, Dr. Damini Makwana, and Dr. Leena Patel, Associate Professors, and **Dr. Rekha Solanki**, Assistant Professor, were faculty at ISA Sponsored 1st West Zone PG Assembly 2017 at B J Medical College, Ahmedabad, October 27-29, 2017. **Dr. Kinna Shah,** Assistant Professor, awarded H. M. Desai Award for Institutional Teacher at 50th annual conference of ISA Gujarat State Branch at Ahmedabad on October 6-10, 2017.

Dr. Bijal Shah, Assistant Professor, participated as a faculty in the GIMACON GUJARAT 2017 on November 18-19, 2017 at Ahmedabad.

Dr. Priti Patel, Assistant Professor, was organizing committee member and invited judge for Annual conference of ISA Gujarat State Branch at Ahmedabad on October 6-10, 2017. She was GMC observer in ISA Sponsored 1st West Zone PG Assembly 2017 at B J Medical College, Ahmedabad, October 27-29, 2017. She also coordinated workshop on USG guided nerve blocks at ISACON Gujarat 2017.

Dr. Srishti Meghare, Resident, received T. N. Zha Award for 50th annual conference of ISA Gujarat State Branch at Ahmedabad on October 6-10, 2017.

Workshop Organised: Dr. Jayshree Thakkar and Dr. Kinna Shah organized 'Basic Life Support & Advanced Cardiac Life Support' Workshop (Learn CPR, Save Life) for 68 first year residents of GCRI on January 15, 2018 at Telemedicine Center. Dr. Jayshree Thakkar and HICC organized Hand Hygiene, Training Programme for Nursing on March 2, 2018.



B. Community Oncology & Medical Records

Assistant Professor and Head: Dr. Janmesh Shah Assistant Professor: Dr. Anand Shah Medical Officer: Dr. Rohini Patel Medical Record Officer: Himanshu Patel Statistical Assistants: Jayesh Solanki, Vishruti Pandya Junior Statistical Assistant: Neha Jadav



Clinical Services: New O.P.D.: During the year 2017, a total of 29,952 patients were registered. The documents under various schemes/categories such as Mukhyamantri Amrutam Yojana (MA Yojana), MA Vatsalya Yojana, Employees State Insurance Scheme (E.S.I.S.), State Government employees/pensioners, Lower income group category (L.I.G.), Indian Cancer Society (ICS) fund, Scheduled Castes (SC) & Scheduled Tribes (ST) categories etc. are verified. Some special radiological and laboratory investigation cards are also issued. Year wise general statistics of hospital is prepared here.

Old O.P.D.: It maintains the records of newly registered cases as well as old (follow-up) cases. There were 3,58,499 outdoor patients came for follow up during the year 2017. Pathology reports, Traveling passes (ST/Railway) and stickers are issued here. Patient's admission-discharge and hospital death

registrations works are done. Medical reimbursement work is also carried out at Old OPD. Patient's follow up information are also kept. For patient's convenience, SMS software is implemented. Patient can inform through SMS prior to his/her follow up day so that his/her casefile are kept ready before patient's arrival. Helpline facility through phone call is also started for follow up. Patient can make appointment the day before his/her follow-up day by phone call on helpline number. His/her appointment is registered and sms is send to his/her mobile number. The MRD staffs keep these file ready when patients come for follow up. Case files are provided to other departments for their research/ dissertation study purpose. Computerized medical certificate are issued and forms of Medi-claim policy and Life Insurance policy of expired patients are filled here.



Details of Work Done	Year 2017
Total new cases registered (Cancer & Non-cancer)	29952
Adult Cases	28751
Pediatric Cases	1201
Total No. of Outdoor Patients visited	358499
New Admission during the year	25265
Inpatient days	220137
Average inpatient stay	8.71
Strength of beds	650
Death During the Year	1491
Haematological Investigations	893996
Biochemical Investigations	702413
Bacteriology Investigations	16362
Serology Investigations	100110
Cytological Investigations	15450
Histological Examinations	104622
Bone Marrow Examinations	4619
Biopsy procedures (Other than Endoscopies & B.M. Bx.)	12560
Total B.T. given to the patients	14886
Total Plasma / PRP given to the patients	22185
Imaging & Radiological Investigatio	ns
MMR Ba. Swallow & other X-rays	58796
Ultrasound (USG)	20532
CT Scan	26824
MRI	2942
Mammograms	6207
OPG	2834
Colour Doppler	875
Radiation Treatment	
Brachy Therapy	711
Cesium Teletherapy	-
Cobalt Teletherapy	-

Details of Work Done	Year 2017
Linear Accelerator	5309
BHABHATRON	1995
Mould prepared for Planning	1739
Simulator treatment Planning	512
Surgical Operations	
Major	5000
Minor	8690
I.V.T.C	6695
Neurosurgical Operations	970
Nuclear Medicine (Isotope)	
PET CT Scan	1003
ISOTOP Scan	2734
IODINE Therapy	61
Immunoassays for Tumor Markers	35435
Immunochemistry & Flow cytometry Investigations	47662
Molecular Oncology Lab Investigations	2313
Cytogenetics & FISH Investigations	2833
Physiotherapy treatment	26303
Chemotherapeutic procedures	49605
Bone Marrow Transplants	33
ECG	22103
Stoma Clinic Patients	2831
Prosthetic Patients	1644
Stem Cell Lab Investigations	1442
FITIC Dept	20643
Pain and Palliative Care OPD	18690

Academic Activities: The department is a very important section of the Institute. It works largely in three different areas. (a) Cancer Registry Programme, (b) Cancer Epidemiology, and (c) Cancer Control Programme.



(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 under the network of National Cancer Registry Programme (NCRP) - National Centre for Disease Informatics and Research (NCDIR) - Indian Council of Medical Research (ICMR), Bengaluru.

1. Rural Cancer Registry Ahmedabad District Project: It has been functioning since the year 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: Work of cancer data collection from various sources for the year 2017 and 2018 is in progress.

2. Population Based Cancer Registry Ahmedabad Urban Agglomeration Area: It has been functioning since 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: Case files abstraction and outside data collection for the year 2016 is completed. Work for the year 2017 and 2018 is in progress.

3. Hospital Based Cancer Registry: The hospital based cancer registry has been functioning since long as per the standards and norms prescribed by the National Cancer Registry Programme (NCRP) of the Indian Council of Medical Research (ICMR). From January 2014, the National Cancer Registry Programme (NCRP) - National Centre for Disease Informatics and Research (NCDIR) - Indian Council of Medical Research (ICMR) sanctioned the project 'Hospital Based Cancer Registry and Patterns of Care and Survival Studies on Cancer Breast, Cancer Cervix and Head and Neck Cancers' at our Institute. The broad objectives of this study is to assess quality of hospital care and cancer services in covered area and to describe length and quality of survival in relation to anatomical site, clinical stage and aspects of types of treatment and to undertake epidemiological research through short term case control studies.

Activities: Case file abstraction and quality checks for the year 2016 have been completed. Case file abstraction and online data entry work for the year 2017 is in progress.

(b) Cancer Epidemiology: The statisticians of the department help doctors and researchers for statistical analysis of their studies. It provides various data to the doctors and researchers for their dissertation/research work. Various statistical data and reports are also provided to the Administration and Government as and when required. This year, a total of 54 GCRI staff requested for data retrieval and 8 GCRI staff were assisted for their statistical analysis work.

(c) 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 organizes 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.

HPV Vaccine Project: The Gujarat Cancer and Research Institute is having a collaborative research agreement with International Agency for Research on Cancer (IARC), Lyon, France and working on a project named 'Implementation plan for extended follow-up of the participants of IARC- Indian HPV vaccination study to evaluate the effectiveness of one, two and three doses of Quadrivalent HPV vaccine in preventing cervical neoplasias'.

Activities: As project is extended for follow-up phase, follow-up activities like cervical cell collection from married participants, new consent to be signed by all participants for extension study, to collect HC-2 samples from participants who have reached 25 yrs of age and to report updated information by doing house to house visit and by phone calls are continued. All the cervical cell samples have been transferred to Rajiv Gandhi Center for Biotechnology and HC-2 samples



are transferred to Pune as and when suggested by IARC. As per project amendment each site has to recruit more control. GCRI obtained Ethics Committee approval for this amendment and after training from IARC in August-2017, recruitment of new control has been started.

A representative from IARC (International Agency for Research on Cancer) visited Ahmedabad site on January 11-12, 2018 for training of the staff and supervision of the activity. He had also visited the field activity with staff and suggested necessary changes.

Major Achievement: Dr. Janmesh Shah, Assistant Professor, awarded for the article titled 'SWOC Analysis of functioning of population based cancer registry in Ahmedabad' as best article in the category of best practices in cancer registries in Cancer Registry Abstract (CRAB) in XXXIII Annual Review Meeting of NCRP-NCDIR, ICMR at Kochi, Kerala on October 2, 2017.

Jayesh Solanki, Statistical Assistant, got first rank in Chess competition of Gandhinagar taluka and Gandhinagar district in Khel Mahakumbh – 2017 organized by Government of Gujarat.

Training Organized: One day chemotherapy training of Physicians and Nurses from various district hospitals from Gujarat was conducted on January 13, 2018 where 17 physicians and 40 Nurses were trained for chemotherapy administration at District hospitals. The similar training for Medical Officers was conducted on February 23, 2018, where 15 Medical Officers were trained for the same.

Public Services Offered: As per the guidelines of National Cancer Control Programme, the department is actively involved in cancer control activities and reaches to the community which addresses primary prevention and early detection of cancer within the community.

Cancer Awareness Camps: The department organizes 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.

A total of 22 education camps (Cancer Exhibition) were organized during April 2017 to March 2018.

No. of Education Camps during April 2017 - March 2018	22
Number of Visitors	5218

Mobile Cancer Screening Van (Sanjeevani Rath) Cancer Detection 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 machine which is very useful to detect breast cancer - the most common cancer found in women in their very early stage.

A total of 48 mobile cancer screening van (Sanjeevani Rath) camps were organized in various places of Gujarat state during April 2017 to March 2018. Following table shows summary report of Sanjeevani Rath camp activities.

No. of Sanjeevani Rath Camps during April 2017 - March 2018	48	
	Number	%
Number of beneficiaries attended	2988	100
Head and Neck Examinations	2029	67.90
Breast Examinations	2003	67.03
Cervix Examinations	1503	50.30
Other Sites Examinations	51	1.71



No. of Sanjeevani Rath Camps during April 2017 - March 2018	48	
	Number	%
Suspicious cases referred to GCRI	229	7.66
Head and Neck	128	4.28
Breast	47	1.57
Cervix	46	1.54
Other Sites	8	0.27

Cancer Detection Camps without Sanjeevani Rath: 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.

A total of 9 cancer detection camps were organized across the Gujarat state during April 2017 to March 2018.

Following table shows summary report of cancer detection camps.

No. of Cancer detection Camps during April 2017 - March 2018	9	
	Number	%
Number of beneficiaries attended	450	100
Head and Neck Examinations	130	28.89
Breast Examinations	31	6.89
Cervix Examinations	321	71.33
Suspicious cases referred to GCRI	16	3.55
Head and Neck	8	1.78
Breast	2	0.44
Cervix	4	0.89
Other Sites	2	0.44

Siddhpur Cancer Care Centre

To provide an excellent cancer care to the people of North Gujarat, the Government of Gujarat set up a Cancer Care Centre at Siddhpur, Patan district in 2012. The radiation unit also started since October 2013 at Siddhpur Care Centre. Every Tuesday along with 1st and 3rd Saturday GCRI sends an expert team which consist of Oncosurgeon, Gynecologist, Radiation Oncologist and other Para medical staff at Siddhpur Cancer Centre. The activities carried out at Siddhpur Cancer Care Centre during April 2017 to March 2018 are as in following tables.

Siddhpur Sanjeevani Rath Camp

Cancer Detection Camps with Siddhpur Sanjeevani Rath April 2017 - March 2018	8	
	Number	%
Number of beneficiaries attended	466	100
Head and Neck Examinations	279	59.87
Breast Examinations	426	91.42
Cervix Examinations	319	68.45
Suspicious cases referred to GCRI	18	3.86
Head and Neck	4	0.86
Breast	4	0.86
Cervix	10	2.15

Siddhpur Cancer Care Centre OPD

No. of Siddhpur OPD during April 2017 - March 2018	22	
	Number	%
Number of beneficiaries attended	18	100
Head and Neck Examinations	6	33.33
Breast Examinations	3	16.67
Cervix Examinations	0	0.00
Other sites Examinations	2	11.11
Suspicious cases referred to GCRI	2	11.11
Head and Neck	2	11.11
Breast	0	0.00
Cervix	0	0.00
Other sites	0	0.00



Day Celebration: 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, Navratri 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.

Following are the reports of various day celebrations organized during April 2017 to March 2018.

May 31, 2017 - World No Tobacco Day: In Gujarat Cancer & Research Institute, around 60% of male cancers are tobacco related cancers. Being a premier institute to fight against cancer, The Gujarat Cancer & Research Institute is also bound to celebrate World No Tobacco Day; in which various events were organized.

Cancer awareness activity in slums: Activities like awareness talks, personal counseling, skit, pamphlet distribution, exhibition and referral of the needy patients to GCRI was carried out throughout the week.

Following slum areas were covered.

Date Community Area

- May 29 Soniriya Block 1, Behind Bapunagar City Gold
- May 30 Asarwa
- May 31 New Parmeshwar Park na Chhapra
- June 1 Kalapinagar 1
- June 2 Kalapinagar 2
- June 3 Opp. Shajanand College, Ambawadi

An encouraging movie was shown by AYUSH NGO, in all the above mentioned areas in the evening which made public aware about ill effects of tobacco and motivated them to quit tobacco. **November 7, 2017 - National Cancer Awareness Day:** November 7 is celebrated as National Cancer Awareness Day across India. On the day, cancer related exhibition was set and cancer awareness talks by experts were held near Cancer Mahiti Kendra in the morning and in Chemotherapy waiting area in the afternoon. Patients and their relatives were counseled in groups as well as personal counseling was also done if needed. Overall, more than 300 people were educated on this Cancer awareness day celebration.

January 19, 2018 - Stress Buster Laughter Yoga Session: Laughter Yoga session by Ms. Archana Rao, Corporate Trainer from Bangalore was held on January 19, 2018, where more than 100 patients and their relatives participated. The same session was held on January 22, 2018 for hospital staff where more than 150 doctors, nurses and administrative staff members participated. These programmes had a great impact on reliving stress.

February 4, 2018 - World Cancer Day: On the occasion of World Cancer Day, a cancer awareness and detection camp was organized on February 3, 2018 at Mehsana District Hospital. More than 300 women were benefitted in this camp. The occasion was graced by **Shri Nitinbhai Patel** Deputy Chief Minister, Gujarat.

March 11, 2018 - International Women's Day celebration at Rajkot: On the occasion of International Women's Day, a cancer awareness and detection camp was organized at Rajkot Medical College on March 11, 2018. More than 500 women participated in awareness programme. On this occasion, Smt. Anjaliben Vijaybhai Rupani, wife of Honourable Chief Minister of Gujarat remained present along with other dignitaries.





C. Gynaecological Oncology

Professor, Head & Chief of Unit – I: Dr. Shilpa Patel Professor Practicing & Chief of Unit – II: Dr. Ava Desai Professor Practicing & Chief of Unit – III: Dr. Meeta Mankad Professor & Chief of Unit – IV: Dr. Pariseema Dave Associate Professors: Dr. Ruchi Arora, Dr. Bijal Patel, Dr. Chetana Parekh Assistant Professor: Dr. Anusha Kamath



Clinical Services: The department offers services in following areas: (1) Well Woman Clinic for early detection of gynecological malignancies, especially Pap's smears for cervical cancer. (2) Colposcopy Clinic: The Colposcopy clinic is run with the help of a state-of-the-art Zeiss colposcope with teaching aid. Colposcopies are performed and Colposcopic directed biopsies are taken. Total 89 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. (4) It is Referral Center for diagnosis and management of all premalignant and invasive gynecological malignancies such as cervical cancer, endometrial cancer, trophoblastic disease, ovarian tumors and vulvar carcinoma. Hysteroscopy: Institute has 'Stryker hysteroscope' with monitor for diagnosis and hysteroscopic guided biopsy.

Details of Work Done	Number
OPD patient	New cases : 4134 Old cases :11250
Pap smear	Pap Smear : 1649 LBC : 2185 Camp : 2087 Total : 5921

Details of Work Done	Number
Cervical Biopsy	1598
Vulval Biopsy	90
Endometrial Aspiration	275
Colposcopy	89



Surgeries

Details of Work Done		N	umber	
	Gyn 1	Gyn2	Gyn3	Gyn4
Radical Hysterectomy and BPLND	6	4	10	11
Laparotomy for Ovarian Tumors	109	87	61	80
Staging Laparotomy for Endometrial Cancer	37	18	19	19
Radical Vulvectomy and Groin Dissection	8	4	7	6
Other Major Surgeries	10	9	15	29
Total Major Surgeries: 549				
Total Minor Surgical Procedures: 192				

Academic Activities: There are 2 M.Ch students, 4 MS Students (Ob. & Gyn. Third year – exam going) and 8 fellows. A total of 178 lectures were taken in the department for teaching and academic purpose. The department offered training to observers and junior residents.

Major Achievements: The department received **'Vimalaben Agraval' rotating trophy** for maximum number of publications for year 2017.

Dr. Shilpa Patel, Professor, attended training course for master trainers as a part of HPV Vaccine project, in a workshop on 'cervical cancer prevention, early detection and management' organized by IARC and Chittranjan Das National Cancer Institute held at Kolkata, December 27-29, 2017.

Dr. Ava Desai, Professor, received **Dr. Shirish Sheth ROGS ORATION** at ROGS 2018 at Rajkot on January 28,2018.

Dr. Pariseema Dave, Professor, has served as Associate Editor of Indian Journal of Gynecologic Oncology. She has also served as Chief Editor of 'Gujarat Cancer Society Research Journal'.

Dr. Bijal Patel, Associate Professor, attended training course for master trainers as a part of a project, in a workshop on 'cervical cancer prevention, early detection and management' organized by IARC and Chittranjan Das National Cancer Institute held at Kolkata, December 27-29, 2017.

Dr. Garima Pandey, Resident, received first prize in poster presentation at Urogynaec Conference, Ahmedabad, on January 12, 2018.

Public Services: The gynecological 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 and biopsies are taken at nominal charge.

Camp Activities: Camps for early detection are conducted at various places in Gujarat including organizations such as BSF, Air Force, Armed Forces, ECHS Polyclinic Airport, Cost Guard, Gandhinagar, etc and distant places like Surendranagar, Nadiad, Porbandar, Rajkot etc. Total 95 camps organized at various places in this year. Total Pap smear taken in camps is 2087. The Department also participates in GCRI academic meetings and Tumor Board discussion.





D. Medical and Paediatric Oncology

Professor Emeritus: Dr. Pankaj Shah, Dr. Shilin Shukla Professor & Chief of Medical Oncology: Dr. Asha Anand, Professor & Chief of Medical Oncology Unit I: Dr. Harsha Panchal Professor & Chief of Medical Oncology Unit II: Dr. Apurva Patel Associate Professor & Chief of Medical Oncology Unit III: Dr. Sonia Parikh Associate Professor In charge of BMT (Part time practicing): Dr. Sandip Shah Junior Lecturers - Pediatrician: Dr. Nitin Joshi, Dr. Chinmay Doctor Psychiatrist : Dr. Rohan Kusumgar Gastroenterologists : Dr. Mukund, Dr. Kunal Bharadwaj Medical Officers - BMT : Dr. Kamlesh Shah, Dr. Kinnari Patel Clinical Assistants : Dr. Kiran Prajapati, Dr. Bhadresh Shashtri, Dr. Ila Patel



Clinical Services: The department of Medical and Paediatric Oncology provides comprehensive care for adult and paediatric patients with solid tumours and hae matological malignancies. Every year approximately 14000 new and refer adult patients are registered under medical department and approximately 55000 patients receive curative or palliative chemotherapy either indoor (127 beds) or in day care center (46 beds). About 15000 minor procedures are performed annually. The Indumati Kinariwala Paediatric Oncology Center was established in 1992 and it was first of it's kind in India to give care to pediatric patients in an ambient environment. Number of cancer patients registering in Paediatric Center per year is approximately 1223. The center also has special OPD for care of central lines (PICC and Hickman catheter).

The Department of Medical Oncology renders services to Adult and Paediatric patients.



Details of Work Done	Adult patients	Pediatric patients	Total
Clinical Cases New + Refer Old	80786 10466 70320	13251 12181 2033	94037 11684 82353
Procedures: Total Bone Marrow Aspiration Others(Intrathecal, Pleural & Ascitic Fluid Aspiration)	13252 5844 7408	4395 1376 3019	17647 7220 10427
Chemotherapy: Total Day Care Chemo – Room No. 7 Day Care Chemo Special Ward Day Care Chemo Male Medical Ward Day Care Chemo Female Medical Ward (including pediatric chemo)	50344 47314 1678 231 1121	5277	55621
BMT: Total Autologus (Multiple Myeloma 3, Hodgkin's Disease 9) Allogenic			28 12
Acute Myeloid Leukemia 2, Aplastic Anaemia 2, Thallesemia Major 10, Faconi's anaemia 1			16

Indoor Beds: Adult 76, Paediatric 25, Leukemia 22, BMT 4, Medical ICU 3+2 (Total 132 Beds)

Academic Activities: We run daily afternoon academic session for DM students which include case presentation, journal club and other oncology topics under guidance of faculty. Regularly conduct CME on oncology for under graduate and post graduate students of BJ Medical College. Invite faculty for guest lectures and telecast of lecture series on webcast.

The Department runs DM Medical Oncology Superspecialty Course attached to B.J. Medical College and Gujarat University. The course started in 1991 with intake of 4 students per year which has increased to 10 students per year since 2010.

There are 10 First Year DM Residents, 10 Second Year DM Residents and 10 Third Year Residents. They actively participate in Outdoor services, Chemotherapy planning, Day care procedures, Chemotherapy administration, Indoor Services, Emergency services, documentation – data entry, Case discussions, presentation of clinical topics and publications under guidance and supervision of the Teachers and Faculty. They prepare Dissertations under guidance of their Teachers. They also participate in Clinical Trials, BMT services and Education programs for the Rotators, Undergraduates and New Comers. The department provided chemotherapy training programme for M.D. doctors from all 33 districts across Gujarat State on January 12, 2018 and February 23, 2018.

Research: The department has undertaken research projects supported by GCS, ICMR, and Pharmaceutical companies.

Major Achievements: Dr. Murtaza Bohra, Resident, won first prize in breast quiz at Gujarat Breast Meet held on March 10-11, 2018 at Ahmedabad. He also won prize for case presentation in COPE 2018 at Chennai.

Dr. Nahush Tahiliani, Resident, won second prize in breast quiz at Gujarat Breast Meet held on March 10-11,2018 at Ahmedabad.

Dr. Honey Parekh, Dr. Vijay Bhargava and **Dr. Akash Patel,** Residents, qualified for zonal round of ISMPO TYSA (Torrents Young Scholar Achiever) on February 5, 2018 at Mumbai. Individually got third prize for quiz and judged as winner to participate in



ELCC, Geneva, Switzerland on April 11, 2018 in Lung Cancer Consortium Asia, 2017 on December 15-17, 2017 at Mumbai.

Dr. Varun Nagori, Resident, qualified for zonal round of ISMPO TYSA (Torrents Young Scholar Achiever) on February 5, 2018 at Mumbai. He also got second prize for poster presentation in National conference on

New Horizons in Cancer Biology held on March 15-16, 2018, Ahmedabad.

Dr. Akshay Shivchand, Resident, received Gold Medal for T. B. Patel Young Scientist Award competition for oral presentation during Hospital Day Celebration on February 3, 2018.

Telemedicine CME organised:

Name of Speaker	Title of Presentation	Name of CME	Date & Place
Dr. Suyog Jain Dr. Hemangini Chandrashekhar	Recent updates in ALK Positive NSCLC		November 16, 2017
Dr. H V Bimba	IMPACT Module -I Immuno Oncology Concept and targets and discussion	BMS CME	January 3, 2018
Dr. Kumar Prabhash	Management of Thyroid cancer	CME (Cipla)	February 23, 2018
Dr. Richard Finn	Shifting paradigms in managing HR+HER2- MBC with Palbociclib	CME (Pfizer)	March 24, 2018
Dr. Tony Mok	Crizotinib : In management of ROS1 NSCLC	CME (Pfizer)	March 24, 2018







E. Palliative Medicine

Professor & Head: Dr. Priti Sanghavi Associate Professor: Dr. Bhavna Patel Assistant Professor: Dr. Shrenik Ostwal Medical Officer: Dr. Richa Singh



Clinical Services:

Inpatient service: Department of palliative medicine has been allotted 10 dedicated beds and 20 shared inpatient beds. Bed Occupancy Rate (BOR) is 80%. Inpatients from other specialty are referred to us for pain and symptom control. On rounds, we manage their symptoms and psychosocial issues with the help of counselor as needed.

Outpatient service: We see about 80-120 patients per day in our OPD. We provide pain and symptom management. Counseling of all patients is done for psychosocial and spiritual issues. We do communication with patients for breaking bad news, issues of collusion, counseling for disease status and prognosis, nursing care, dietary advice, oral hygiene, etc.

Home care service: We do 2-3 home-visits per day for 5 days a week, for home bound cancer patients residing within city of Ahmedabad and Gandhinagar.

Hospice service: We visit our hospice centre frequently as per requirement, to see admitted patients who are terminally ill, requiring palliative care and for training of paramedical staffs. There are 16 in patient's beds at Hospice centre. BOR of Hospice is 80%.

Details of Work Done	Number
OPD: New Patients	6394
OPD: Follow up Patients	12460
Interventions done for Pain Management (Spheno Palatine Ganglion Block, Celiac Plexus Block, Superior Hypogastric Plexus Block, Epidural, Ganglion Impar Block)	117
Indoor Patients attended	997
Other Interventions (PEG, Ryle's Tube)	240
Home Care	114
Admissions to Hospice, Community Oncology Centre, Vasna	225



Academic Activities: Department is recognized for an Eight weeks distance learning course 'Essentials of Palliative Care'. Training for Part A – was organized from November 1 to December 31, 2017. Total 24 candidates have received the training. Dr. Vivek Nayak from Cipla Palliative Care Centre from Pune was National faculty for the training.

Department is recognized for Six weeks 'Hands On' Certificate course in Pain & Palliative Medicine, CCPPM & CCPN, for doctors and nurses. The course is supported by Indo-American Cancer Association and Pallium India. Course training was held twice in 2017, as follows

September 4 to October 14	Doctors trained 01	Nurses trained 04
November 6 to	Doctors trained	Nurses trained
December 16	02	04

A training workshop on Palliative Care had been organized from December 11-30, December 2017 by the State Palliative Care Cell, Gujarat in collaboration with Gujarat Cancer Research Institute, Ahmedabad and Community Oncology Centre, Ahmedabad. The 3days training was comprised of lectures, role plays, OPD rounds, ward rounds and cancer exhibition visit. There were total 22 participants comprised of Anaesthetists, Physicians and Staff nurses from Gandhinagar, Jamnagar, Surendranagar, Junagadh, Rajkot and Porbandar.

Workshop Organized: A Workshop on 'Opioids availability in Gujarat' was organized at GCRI on April 11, 2017, in collaboration with Government (CL & SC) Spine Institute; Civil Hospital, Ahmedabad; Shree Krishna Hospital, Karamsad; and Pallium India, Trivandrum, Kerala. Total 27 candidates (doctors, nurses, pharmacists and chemists of Gujarat) took part in this workshop. On the same day in the afternoon hours a meeting with the Health Commissioner was arranged to discuss issues on 'Opioids availability in Gujarat', under leadership of Dr. Geeta Joshi, CEO Community Oncology Centre, Vasna and Dr. Nandini Velath from WHO collaborating centre. **Public Services: Dr. Priti Sanghavi, Dr. Priti Poriya** and **Dr. Richa Singh** took active part in education and training of nursing students, medical students, students from Entrepreneur Development of India (EDI) & B M Institute, and doctors, on palliative care and psychological issues in cancer patients.

World Hospice & Palliative Care Day was celebrated at Community Oncology Center & Hospice, Vasna, Ahmedabad to create awareness about Palliative Care & Hospice amongst patients and community. It was joint efforts of Gujarat Cancer Society, GCRI & Karunalay, a Hospice run by Shyam Oncology Foundation. Dr. N. B. Dholakia, Additional Director (Medical Services) Commissionerate of Health, Medical Services and Medical Education, State NCD Cell was chief guest of the function. Patients shared their experience with the disease and its treatment. Role play regarding awareness on palliative care services and hospice was performed by nursing students of Manikaka Topiwala institute of nursing school, Changa.





F. Pathology

F1. Histopathology, Cytology, Biochemistry, Haematology

Head & Associate Professor: Dr. Dhaval Jetly Associate Professors: Dr. Priti Trivedi, Dr. Trupti Patel Assistant Professors: Dr. Biren Parikh, Dr. Beena Brahmbhatt, Dr. Amisha Gami, Dr. Majal Shah, Dr. Jyoti Sawhney, Dr. Ashini Shah Junior Lecturers: Dr. Vibha Vyas, Dr. Jhanavi Gandhi, Dr. Nainesh Menat



Clinical Services: 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. Pathology Department is the heart of our Hospital; central to any cancer management is tissue diagnosis. Metabolic

cludes various Haematology, rric Oncology aematology, ogy. Pathology ; central to any sis. Metabolic





profile and Haematological alteration in a cancer

patient plays a pivotal role in overall outcome. The



Central Laboratory - Haematology

Details of Work Done	Number	Details of Work Done	Number
CBC+DC	148837	PT	31879
DC Manually	61603	APTT TEST	31445
ESR	6215	Plasma Fibrinogen	575
Urine Examination	6590	FDP	113
BSBP	6590	G6PD	89
PS/INDICES	1966	FHB	6
LE CELL	3	Stool Examination	590
Sickle Test	12	Bone Marrow Aspiration Bx	4191
Sucrose Lysis	92	Bone Biopsy	1996
Osmotic Fragility	4	Pas Stain	924
RC	2658	Sudan Stain	952
CSF Examination	358	Iron Stain	165
Pleural Fluid	259	Lapa Stain	1
Ascitic Fluid	200	D-Dimer	156
Other Fluid	13	Total	308482

Central Laboratory - Biochemistry

Details of Work Done	Number
Blood Sugar	37414
S. Acetone	90
BUN	58415
S.Creatinine	88913
S.Electrolytes	63065
S.Alk. Phosphatase	43818
S.G.O.T	61335
S.G.P.T	61369
S.Total Protein	47357
S.Albumin	47210
S.Bilirubin Total	61963
S.Bilirubin Direct	61963
S.Uric Acid	13808
S.Calcium	19995
S.Megnesium	11627
S.Phosphorus	10223
S.Lactate Dehydrogenase (LDH)	18856
S.Amylase	947
S.Lipase	276

Details of Work Done	Number
S.Acid Phosphatase	2
S.Iron (Fe)	393
S.Tibc (Ibct)	386
Fluids	789
24 Hrs. Urinary Protein Estimation	12
S.Cholesterol	1256
Triglyceride	1225
HDLD	1104
Methotrexate (MTX)	1703
Cyclosporin (Cyclo)	416
S.Protein Electrophoresis	789
S.Immunofixation	528
S.Free Light Chain Kappa	619
S.Free Light Chain Lamda	615
S.IgG	367
S.IgA	352
S.IgM	357
TOTAL	719557



Endocrinology - Immuno Assay Tests

Details of Work Done	Number
Alpha Fetoprotein (AFP)	2458
Carcinoembryogenic Antigen (CEA)	5982
CA-125	4393
Prostate Specific Antigen (PSA)	1624
CA-19-9	2682
CA-15.3	206
Human Chronic Gonadotropin (B- HCG)	1965
Follicle Stimulating Hormone (FSH)	541
Leutinizing Hormone (LH)	341
Prolactin (PRL)	280
Estradiol (E2)	465
Testosterone (T)	196
Cortisol	208
Growth Hormones (GH)	130
Parathyroid Hormone (PTH)	147
Total T3	2382
Total T4	2383
Thyroid Stimulating Hormone (TSH)	5043
Free T3 (FT3)	688
Free T4 (FT4)	1085
Thyroglobulin (TG)	482
Anti-Thyroid Peroxidase Antibodies (ANTI-TPO)	178
Human Epididymal Protein 4 (HE4)	901
HBA1C	398
S. Ferritin	151
S. Folate	47
Vitamin B-12	560
Vitamin D Total	490
TOTAL	36406

Histopathology Laboratory

Details of Work Done	Number
Total number of biopsies	20158
Total sections of biopsies	24241
Total operative specimens	4448
Number of slides	75245
Total biopsies and specimens for review	6809
Total number of slides (review specimen and biopsies)	19047
Frozen Specimens	1521
Number of Slides	8486
Total number of biopsies and specimens	24606
Total	142019

Cytology Laboratory

Details of Work Done	Number
Pap Smear	3898
FNAC	4617
Fluid Cytology + Cyto Block	4264
Outside / Camp Pap Smears	1606
Total	14385

Academic Activities: Practical / Theory training to post-graduate students / doctors for M.D. degree, DCP and observers, fellows and rotators come from various local hospitals and from other states as well as students from Medical Laboratory Technology Course. Maintenance of patient's record and statistical data analysis is done.

Major Achievements: Dr Ritwika Dabral, Resident received second prize for poster presentation at AMCON 2018 held at VS Hospital Ahmedabad on March 18, 2018.

Ms. Rachana Shah, Sr. Lab Technician, Hematology received Employee of Month in February 2018.



F2. Blood Bank

Assistant Proessor & Incharge: Dr. Rima Kusumgar Blood Transfusion Officer: Dr. Dhara Ardeshana



Clinical Services: Blood Bank collects blood from voluntary and replacement donors in the Hospital and outside Hospital by arranging outdoor blood donation camps, collecting more than 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. The Blood Bank is well equipped with all the modern equipments like fully automated blood grouping and antibody screenig machine, Column Agglutination [Gel-technology], Electro chemiluminiscence immunoassay for testing of transfusion transmitted disease testing, Apheresis machines, Blood Irradiator, Fully Automatic Component Seperation Machine like: Opti-press, G5 and for leukoreduction of components which prevents the blood transfusion reactions. In Apheresis procedures routinely plateletpheresis, therapeutic Apheresis and peripheral blood stem cell collection are being done.

Details of Work Done	Number	
Donor Area		
Blood Tapping	14589	
Replacement Donors	6313	
Voluntary Donors	6748	
Single Donor Platelet	1528	
Outdoor Camps	78	
Transfusion		
Whole Blood	836	

Details of Work Done	Number
PCV (Packed Red Cell)	14278
PC (Platelet Concentrate)	16550
FFP (Fresh Frozen Plasma) + Stored Plasma	8653
Single Donor Platelet	1528
Autologus & Allogenic B.M. Collection	45
Therapeutic Leukocytapheresis	1



Tests	For Patients	For Donors
Blood Groups Automation Manual	26732 11800	13061 25600
Coomb's Test (IAT + DAT)		910+910
Du Test for weak antigen		1021
Cross Match		19063
HbsAg		14589
HIV		14589
HCV		14589
VDRL		14589
Malarial Parasaites		14589

Academic Activities: MD [Transfusion Medicine] Students from the B. J. Medical College as well as Doctors and Technicians from all over Gujarat are coming for training of component separation and apheresis procedures.

Major Achievements: Dr. Rima Kusumgar, Assistant Professor invited as a faculty for various training programmes organized by NACO. She was invited as panelist in the conference 'Forum of Roche & Transfusion Specialist – FORTE' at Bengaluru in June, 2017. She was invited as speaker at 'CME on Transfusion updates', Basuvantarakam IndoAmerican Cancer Hospital, Hyderabad on September 9, 2017; 'CME on TTI', VSGH, on February 10, 2018 and 'CME on Immunohematology by ISBTI, Gujarat Chapter at Ahmedabad in April 2017.

Public Services: Blood Bank has organized 78 blood donation camps.





F3. Microbiology

Professor & Head: Dr. Parijat Goswami Assistant Professor: Dr. Foram Patel Junior Scientific Officer: Dr. Nilima Desai



Clinical Services: The Head of the department manages mainly the Clinical Laboratory services for diagnosis of infections in cancer patients. The other Non-Clinical important aspects of hospitals are also managed like Infection Control Activities, FICTC (Facility Integrated Counseling and Testing Center) Activities, Biomedical Waste Management (BMW) Activities.

The Department of Microbiology has grown from 192-240 samples per year in 1989 to 106889 samples currently and now it is strengthened by the advanced state of art instruments. This Department looks after the Diagnosis of Infectious diseases caused by

bacteria, fungi, viral infections by serodiagnosis, and molecular diagnosis of the infection in cancer patients.

The new development in the department is Diagnostic Molecular Microbiology and it helps to know complication occurring in the patients by different infectious agents which are not diagnosed by conventional methods. This technique called RT-PCR gives the results of quantitation of the infectious agents (number of copies) present in the patients system which complicates and deteriorates the treatment.

The following is the different samples received in the department:

Details of V	Vork Done	Number	Details of W	lork Done	Number
Culture & Antibiotic	Aerobic	3154	Microscopy	Sp. Gram Stain	171
Susceptibility	Anaerobic	1		H. pylori	22
	Fungal	1338		Z. N. Stain	312
	Blood (aerobic)	2457		Pneumocystis	11
	Total	6950		Carinii Stain	11



Details of V	Number	
Microscopy	Stool for Ova/Cyst	25
	Wet preparation	146
	Total	687
Serology	Widal Test	175
	C-reactive Protein	235
	CMV IgG test	73
	CMV IgM test	75
	HBeAg /anti HBeAg	464
	S. HIV	31779
	S. HBsAg	32043
	S. HCV	31643
	B2 Micro globulin	208
	anti HbS	173
	Hbc IgM	380
	S.Procalcitonin	992
	Dengue test	468
	Malaria	420
	Chikungunya	18
	Total	99146
Infection Surveillance	Surveillance in Critical Areas (No. of times)	106
	Total	106889

Non-Clinical Services

Dr Parijat Goswami	Professor & Head, Microbiology	
Infections Prevention and Control activities in GCRI		
Infection Control Activities - Staff		
Mrs. Indira Sunil Macwan	Infection Control Nurse	
Mr. Arpit Christian	Infection Control Nurse	

Antibiograms: Periodically antibiograms are taken out and issued to clinician for appropriate treatment of infections.

History of activities of Infection control: The concept of Infection prevention and control was brought to GCRI in 1992. Late Dr D. B. Balar was the Head and Dr. Parijat N. Goswami, was the Secretary.

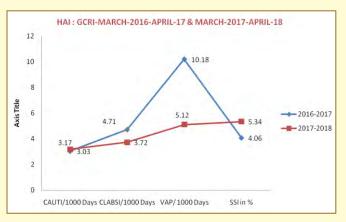
The then Director, Dr. D. D. Patel was the Chairman of the HICC (Hospital Infection control committee). All Heads of the clinical departments were the members of the committee. A sub committee was formed for active working and problem solving in the institute on day to day basis, which is called Hospital Infection Control Team (HICT). On goingly the structure of the committee has been changing with the new coming Directors. Other Directors who chaired the functioning of Infection control and prevention are Dr. Pankaj Shah, Dr. Shilin Shukla and Dr. Rakesh Vyas.

Training: Total number of training programs conducted was 24 at different occasions in the current year for nursing staff and class IV employees. Topics covered were; Standard precautions, needle stick injury and management, Bio-Medical waste management, Hand hygiene, sterilization and disinfection, etc.

Other activities

1. Monitoring practices done by CSSD & TSSU: The checks on surgical instruments cleaning, washing packing and sterilization process are done every day. Sterilization controls are done by using Process Integrator (PI) to make sure sterilization within the packs/dressing trays and drums, Chemical indicators are used to check the set time, pressure and temperature and Biological Indicator (BI) are used to ensure spores as well as organism kill for sterility check.

2. For critical areas like OT, DSU, BMT, NICU, SICU, Post-op wards are frequently fumigated and surveillance done as per request.





Quality Indicators of Health Care Associated Infections (April 2017-March 2018)

Overall the infection rate dropped down in each of the category of infection (Chart: HAI GCRI-2016-17 & 2017-18). They were classified into Device related (CA-UTI,CA-BSI &VAP) and post-operative surgical site infections(SSI). In SSI there was rise of infection by 1.3 %.

All the data were within the range as compared with the data of the other health care institutes.

A very cautious vigilance is been kept on the quality indicators of infections occurring in hospital like Ventilator associated pneumonias, Catheter associated urinary tract infections, central line associated blood stream infections and surgical site infections. It is clear from the data that stringent measures are taken to control infections, starting from hand hygiene to sterilization and disinfection in the hospital.

3. Biomedical waste management

Biomedical Waste Management (BMW) Activities - Staff		
Mrs. Leena Bhatt	Staff Nurse in-charge for monitoring waste management	
Mr. Akshay Dave	Sanitary Inspector	
Staff of Raj deep contractor		

In 2008 when rules and guidelines for biomedical waste had become stringent, the then Director, Dr. Pankaj Shah, had taken keen interest and activities related to this were formed and followed. The committee for monitoring activities was formed and the rules and regulations are strictly followed since then. Daily rounds are taken to check proper segregation of waste. There are meetings and training which happen throughout the year for smooth running of the activities of waste management. The new biomedical waste management rules have been given by and are as per standards of NABH and GPCB which are in the process of been followed by our institute.

4. FICTC (Facility Integrated Counseling and TestingCenter)

Active staff involved		
Mrs. Mita Suthar	Counselor	
Mr. Amit Makwana	Counselor	

HIV counselling and testing services were started in GCRI in March 2015. It is a requirement of a health care facility to have one integrated counselling and testing centre for all groups of people. There is pre and post testing counseling for HIV testing because we are testing HIV for all our admitted patients (medical, surgical and gynaec patients).

FICTC-GCRI is run by qualified and trained nursing staff that provides HIV counselling. Laboratory technician is also trained under the regional NACO centre of Civil hospital. This FICTCs is supported by the National AIDS Control Organization (NACO).

Counsellors: The counsellor is appointed from GCRI staff and he/she is trained from ICTC Center of NACO, Civil Hospital. They focus on the following:

- Pre-test counselling
- If HIV test is positive, Post test counselling of the patient
- Send HIV positive patient to civil hospital for ART treatment
- Maintain records of all counselling done
- Communicate with Civil hospital ICTC center
- Be available in the FICTC as per the specified timings
- Ensure that strict confidentiality is maintained
- Ensure that all IEC materials such as posters, etc. are displayed prominently in the FICTC
- Report on a regular basis to Head of FICTC center of GCRI

Summary of activities in 2017-2018: In a Year, April 2017 to March 2018 a total of 20426 patients were counseled with an average monthly Pre-Test counseling of 1800 patients. Post test counseling was done for 1.41% (289/20426) HIV positive patients. There was male preponderance (2:1, M:F) amongst HIV positive patients. Route of transmission was not



known in 61 responders. 115 patients were aware of sexual transmission. 31 patients had given the history use of re-usable needles and 29 patients had given history of blood transfusion. There were only 2 patients who had given history of pre-natal transmission.

Most of the patients were from Gujarat (210), from Rajasthan (26) and from Madhya Pradesh (24).

It was also observed that 47 patients were newly diagnosed for HIV infection, and 187 patients were already HIV Positive from outside or either were on Anti Retroviral Therapy. There were 28 patients who underwent repeated HIV testing. Around 234 patients were referred to ART Centre for counseling and treatment as per NACO protocol.

Major Achievements: Dr. Parijat Goswami, Professor and Head, received **Dr. Uttamram B. Vyas Oration - Life time Achievement Award** in the profession of Microbiology for the year 2017. The Oration was delivered on the December 16, 2017, at the Gujarat Association of Pathologists and Microbiologists, organized by the Rajkot Association of Pathologists and Microbiologists, Rajkot.

Public Services: Infection Control Surveillance for Sadvichar Parivar Hospital.

New Tests introduced in Microbiology

The department procured a New machine called "Rotor Gene Q" for performing Real Time PCR for rapid diagnosis of the infectious agent causing complications as well as interfering with the treatment of the patients.

Scope of Applications of RT-PCR

- 1. BMT Patients complicated with viral infections.
- 2. Screening for the presence/ absence or prognostication of complicating viruses
- 3. Viral infections complicating Haematological cancers
- 4. Support for Gastro-Intestinal diseases
- 5. Pre-Induction screening

RT-PCR Quantitative Tests are done for the following viruses

- 1. Cytomegalo viruses
- 2. Epstein Bar Viruses
- 3. Herpes Simplex viruse
- 4. Hepatitis B Viruses
- 5. Hepatitis C Viruses







G. Radio-Diagnosis

G1. Imaging Services

Professor & Incharge: Dr. Hitesh Rajpura Professor: Dr. Saumil Desai Associate Professor: Dr. Himanshu Soni Assistant Professors: Dr. Drashty Chauhan, Dr. Sanjeev Patel, Dr. Sapna Patel Junior Lecturers: Dr. Tejal Shah, Dr. Deepika Yadav Visiting Interventional Radiologist: Dr. Ajay Upadhyay (2days / week) Visiting Neuro Interventional Radiologist: Dr. Milan Jolapara



Clinical Services: The department is fully equipped with 500 MA Siemens X-ray units, OPG machine-Siemens, Siemens IITV guidance Fluroscopy machine, Mammomat-Mammography machine, Siemens G-50-Doppler Machine, Two Doppler machines of GE – P5, Fuji CR system, Medsynapse- Department networking and data storage system, USG - High end Siemens USG S3000, Portable GE Ultrasonography, CT Somatom 16 Slice, Emotion 6 slice CT scan and 0.4 Tesla Hitachi Aperto MRI Machine. 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 of various camps and health checkup programme managed by institute. The department also participates in GCRI academic meetings.

Details of Work Done	Number
X-RAY (PLATES)	59179
IVP	5
USG	20372

Details of Work Done	Number
Portable USG	440
CT scan	27278
Mammography	6153



Details of Work Done	Number
Barium Swallow	328
Barium Enema	1
USG Guided Biopsy	2580
CT Guided Biopsy	894
Pleural Tapping	354
Ascites Tapping	152
MRI	2972
Color Doppler	767
PTBD	100
OPG	2816
RFA	12

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

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

Details of Work Done	Number
CT Block	4
CT Angio	45
SRS	3
CT RT Planning	1828
Loopogram	6
Gastrograffin study	4
Needle localization	3
CT STB	63
Nephrostomogram	20
PTBD Dressing & Checking	93

CME Organized: One day CME on Head, Face & Neck Oncology Workshop is organized by the Departement on December 10, 2017 at Ahmedabad Medical Association hall. Approximately 100 participants attended this one day CME. Speakers of this CME were **Dr. Karthik Ganeshan** and **Dr. Avinash Nanivadekar.**





G2. Nuclear Medicine & PET CT

Assistant Professor & Head: Dr. Swati Rachh Assistant Professor: Dr. Rasna Tiwari Medical Officer: Dr. Zalak Pandya Nuclear Health Physicist: Mr. Om Prakash



Details of Work Done	Number
Bone	1714
Cardiac	1
Parathyroid	11
Silography	0
Thyroid scan	229
Hida scan	61
MIBI thyroid scan	0
DTPA scan	247
DMSA	190
DRCG	0
MIBG	9
EC scan	183
I-131 Whole body/Iodine scan	264

Details of Work Done	Number
DMSA-V scan	0
I-131 Toxicosis (10mci)	12
I-131 therapy	56
GI study	0
Liver scan	1
MUGA Scan	0
Esophagus scan (Milk)	4
Hynic-toc (octreotide scan)	7
Sentinel scan node	2
Meckle scan	6
Samarium therapy	0
PET-CT	1052



H. Radiotherapy

Professor and Head: Dr. U. Suryanarayan

Associate Professors: Dr. Ankita Parikh, Dr. Maitrik Mehta, Dr. Pooja Nandwani Patel, Dr. Sonal Patel Shah Assistant Professor: Dr. Jyoti Poddar

Junior Lecturer: Dr. Mridul Anand



Clinical Services: Department is fully equipped with four Linear Accelerator with facilities of 3 Dimensional Conformal Radiotherapy, Intensity Modulated Radiotherapy (IMRT), Image Guided Radiotherapy (IGRT), Volumetric Arc Therapy (VMAT), Stereotactic Radiotherapy (SRT) and Stereotactic Radiosurgery (SRS), one Bhabhatron Machine, Two Microselectron High Dose Rate Brachytherapy machines, two simulators Machines and One Siemen's CT Simulator machine which is in

Details of Work Done	Number
OPD new cases	2040
Cases referred from outside for Radiotherapy	1780
Cobalt Teletherapy	2190
Linear Accelerators	8200
Brachytherapy	2484

Radiology Department and another Varian's conventional simulator.

Clinical Activities: The department is treating patients from nearby cities and also from Rajasthan, Madhya Pradesh and Maharashtra.

Academic Activities: Regular lectures, seminars twice weekly by resident doctors and bed side case presentation by resident doctors conducted in the department. The department runs CMRT course for Medical Radiotherapy Technician.

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. Pooja Nandwani Patel, Associate Professor, received AROI Overseas Fellowship at 2nd Indian Cancer Congress at Bangalore, November 8-12, 2017. She was 3rd Runner



up at Run Against Cancer 10 Km Run organized by AddLife Foundation and Sterling Cancer Hospital at Riverfront Ahmedabad on February 18, 2018. She is Executive Committee Member of National Association of Radiation Oncologists of India for the year 2016-2018. She is Secretary and Treasurer of Association of Radiation Oncologists of India AROI –Gujarat Chapter for 2016-2018. She is Assistant Editor for Journal of Cancer Research and Therapeutics. She is Member of Editorial Board of The Cancer Immunology Journal. She is National Faculty at Indian College of Radiation Oncology (ICRO) for post graduate students of Radiation Oncology from all over the country

Dr. Jyoti Poddar, Assistant Professor, received best poster presentation at 1st Breast Cancer Conference at Jaipur in October 2017.

Public Services: Dr. Ankita Parikh, Associate Professor, is attending Siddhpur Cancer Centre for OPD consultation, planning verficiation of 2-D, 3-D, IMRT,IGRT.







I. Surgical Oncology

There are six Surgical Oncology Units (I1), and six Superspeciality Oncology Units (I2-I7), which are Plastic Surgery Oncology (I2), Urosurgery Oncology (I3), Musculoskeletal Onco Surgery (I4), Paediatric Surgery Oncology (I5), Interventional Therapeutic Centre (I6), and Ophthalmic Surgery (I7).

General Surgical Oncology

Details of Work Done	Number
Major Surgery	3523
Minor Surgery	765
IVTC Procedures	6989
DSU	8123
Central Line Insertions	520
Emergency Surgeries	123

Superspeciality Oncology

Department	Number of Surgeries
Plastic Surgery Oncology	79
Urosurgery Oncology	199
Musculoskeletal Onco Surgery	244
Paediatric Surgery Oncology	200
Neuro Oncology	849
Ophthalmic Surgery	17
ICR	765









I1. General Surgical Oncology

Director, Professor & Head: Dr. Shashank Pandya

	GI & HBP	Breast, Thorax & Mis	Head & Neck
Professor	Dr. Rajen Tankshali	Dr. Shashank Pandya	
Associate Professors	Dr. Vikas Warikoo	Dr. Mohit Sharma	Dr. Hemant Shukla Dr. Jignesh Goswami Dr. Jayesh Patel
Assistant Professors	Dr. Shailesh Patel Dr. Mahaveer Tadaiya	Dr. Abhishek Jain Dr. Ketul Puj	Dr. Umank Tripathi Dr. Supreet Bhatt

Clinical Services: The department offers services in diagnosis, treatment and palliative care of the patients in the field of Head and Neck, Thoracic, Gastro-intestinal & Colorectal, Hepato-pancreatobilliary, breast and others. In the last year total 3523 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.

Academic Activities: Regular lectures and teaching programmes are conducted for M.Ch. Surgical Oncology Resident Doctors and Fellows in the department in the form of case presentation, seminar, journal reading and region wise topic presentations. The department also participates in GCRI academic meetings.

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. Abhishek Jain, Associate Professor in Breast and Thoracic Oncology Unit, received 6 weeks fellowship in Thoracic Surgeries at Liverpool Heart and Chest Hospital, England, from November 3 to December 15, 2017 under the mentorship of Dr. Richard Page. He was invited as a faculty at Gujarat Breast Meet 2018 organised by HCG Cancer Hospital in Ahmedabad.

Dr. Prasad Kasbekar received 15 day observership in Head and Neck Oncology and **Dr. Himanshu Koyani** received 15 day observership in Colorectal Cancer under a travel grant by the Korean Oncology Society at Korea in August 2017.

Conference Organized: Upper GI Malignancies and Live Surgical Workshop (UGICON 2017) was organized by **Dr. Abhishek Jain, Dr. Vikas Warikoo** and **Dr. Mohit Sharma** at GCS Medical College, Ahmedabad on April 14-16, 2017.

Public Services: Camps for early detection and awareness of cancer are conducted at various places in Gujarat, including organizations such as ONGC, Air Force and Armed Forces etc.

I2. Reconstructive (Plastic) Surgery

Visiting Plastic Surgeons: Dr. Hemen Jaju, Dr. Hemant Saraiya, Dr. Parag Kothari

Clinical Services: Apart from attending OPD once a week, reconstructive surgeries are done in main operation theatre twice per week. In this period total 79 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.



I3. Urosurgery Oncology

Visiting Urologist: Dr. Keval Patel

Clinical Services: The department offers services in OPD, operation theatre and day stay unit. In this period total 199 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.

I4. Musculoskeletal Onco Surgery

Visiting Orthopaedic Surgeon:Dr. Jyotindra Pandit Full Time Orthopaedic Surgeon: Dr. Jaymin Shah, Dr. Abhijeet Salunke

Clinical 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 244 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. **Major Achievements: Dr. Jaymin Shah** received Gold Medal for best paper presentation in GOACON 2018 at Surat in February 2018.

Dr. Abhijeet Salunke presented an Oration Lecture for Late Dr. Neeraj Sharma Oration at SIAMS Indore in February 2018. He is a reviewer for Journal of Orthopaedic Surgery and Research, BMC Musculoskeletal Disorders, Journal of Medical Case Reports, Journal of International Medical Research, and Asia-Pacific Journal of Oncology Nursing.

I5. Paediatric Surgery Oncology

Visiting Paediatric Surgeon: Dr. Kumar Sumit Pramod

Clinical 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 157 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.



I6. Interventional Therapeutic Centre (IVTC)

Full Time Consultant Gastroenterologists: Dr. Kunal Bhardwaj, Dr. Mukund Virpariya Pulmonologists: Dr. Parthiv Mehta, Dr. Pankaj Vyas



Clinical Services: : IVTC offers complete range of endoscopy services which includes diagnostic as well as therapeutic endoscopy and advanced endoscopy services like ERCP, EUS and pleuroscopy. It also offers routine OPD services and reference in GI and respiratory medicine.

The IVTC department under surgical oncology department is high volume center for endoscopy services and includes advanced endoscopy like ERCP, EUS and Pleuroscopy. It conducted more than 6500 procedure in period from April 2017 to March 2018

which includes more than 4000 diagnostic endoscopy		
and 1500 therpeutic endoscopy as well as more than		
500 advanced endoscopy procedure including ERCP		
and EUS. It covers many therapeutic procedures like		
dilatation, EVL, sclerotherapy, balloon dialations,		
polypectomy and endoprosthesis deployment. The		
department is now equipped with High end HD		
endoscopy sytems as well as EUS and now caters		
almost complete GI Endoscopy procedures. It is also		
been imparting training programme for those		
interested in learning endoscopy.		

Details of Work Done	Number
UGI scopy	3305
Colonoscopy	1022
RT Insertion	511
Dilatation	447
PEG	9
EVL	269
Glue/Scleotherapy	10

Details of Work Done	Number
Endoprosthesis	11
ERCP	331
Bronchoscopy	1020
Pleuroscopy	23
EUS	31
Total Patients: 4100	6534



Academic Activities: Department faculty takes part in academic program of GCRI routinely as multi disciplinary team. Department also imparts training to M.Ch. students in endoscopy as well as gastrointestinal medicine.

Major Achievements: Dr. Kunal Bhardwaj is one of the selected 12 Gastroenterologists across India as part of Pancreas India forum and was part of presentation committee. **Training Organised: Dr. Kunal Bhardwaj** and **Dr. Mukul Virpariya**, Consultant Gastroenterologist conducted training for high level disinfection for endoscopy system along with Olympus Healthcare on November 22, 2017.

Public Services: Dr. Kunal Bhardwaj along with **Dr. Parthiv Mehta** was part of two days Camp activity organized by Al Madeena trust, Jodhpur on February 24-25, 2018 and screened almost 250 patients for GI and 400 patients with respiratory related complaints.

I7. Ophthalmic Surgery

Visiting Ophthalmic Surgeon: Dr. Aashish Shah

Clinical Services: : The Department offers services in OPD, Operation Theatre and Day Stay, thrice per week. They examine, investigate and treat patients.

GCRI has now been recognized as Tertiary Center for Eye Cancers for States of Gujarat, Rajasthan and Madhya Pradesh. All age group patients from children

to adults of Eye cancers are treated. Retinoblastoma		
common in children are diagnosed and treated.		
Choroidal melanomas, Basal Cell Carcinoma,		
Squamous Cell Carcinoma etc. in adults are diagnosed		
and treated. Glass prosthesis and other types of		
prosthesis are given for social well being once the		
patients are treated.		

Details of Work Done	Number
OPD Patients	250
Major Surgeries	15
CT Guided Biopsy	5
Minor Surgery	5

Details of Work Done	Number
Health Check Ups	45
Ward Visits	10
BMT Visits	10





J. Neurosurgery

Head: Dr. Dipak Patel, Part Time Neurosurgeon Full-Time Neurosurgeon: Dr. Paresh Mody Part-Time Neurosurgeon: Dr. Navin Patel, Dr. Tejas Patel Medical Officers: Dr. K. G. Patel, Dr. Minesh Patel, Dr. Nilam Patel



Clinical 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 anesthesia system, Microscope with C.C.T.V. by Zeiss, Ultrasonic Surgical Aspiration by Valley Lab, IITV, Stereotactic Apparatus, Radio Frequency Lesion Generator, Intensive Care facilities with state of the art cardiorespiratory monitoring system, advanced ventilators and its own dedicated Central Sterile Supply Department.

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. 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 department is also having interactions with other departments of the hospital, e.g. Surgical Oncology, Plastic Surgery, Medical Oncology, Endocrinology, Biochemistry, Pathology, Radiation Oncology Department, Radiology Department 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 Gujarat Cancer & Research Institute.

Details of Work Done	Number
Selective	07
Supramajor	617
Major	157

Details of Work Done	Number	
Minor	68	
Total	849	



K. Support Services

K1. General Administration And Human Resources



This department looks after two important key activities of the Institute. General Administration looks after the day to day general administration aspects related to hospital's administrative procedures like conducting meetings of various committees, executing the decisions taken by the committees, streamlining the administrative processes etc.

General Administration supports various events arranged by the Institute for different purposes like Cancer Detection Camps, Cancer Awareness Exhibitions, Workshops, Seminars, Lectures, Conferences, etc.

Major initiatives taken up by this department is implementing Computerized Grievance and Feedback Management Portal to resolve patients and their relatives' complaints as well as internal maintenance issues of the staff for engineering and computer services. System is interactive and complainant gets immediate response through SMS as well as concern department's Head / Officer or doctor or Matrons also get SMS alert about the complaint. On redressal of the complaints, the same is being updated in the system and the whole process is being closely monitored by the General Administration for effective use.

General Administration also closely works with the computer section for successful implementation of various modules of software for hospital operations as well as administration. Ultimately goal of the General Administration is to provide seamless services to the patients as well as employees for efficient delivery of patient care.

Outsourcing Services:

Human Resource Department looks after the Outsourcing Services. It includes Security Staff, Housekeeping Staff, Utility Service Staff & Canteen facilities and diet for patients. Department also manages Outsourcing Services of other Centers of GCRI (Saurashtra Cancer Care Centre, Rajkot & Siddhpur Cancer Care Centre, Siddhpur). Department also looks after the process of Tendering, evaluation, billing process of outsourcing services and regular monitoring of outsourcing services.



Human Resources Section



Human Resources Section looks after the process of recruitment of new human resources, promotion, disciplinary action, training, maintenance of human resources' records, retirement process etc. For smooth operation of these services, Human Resources Section, after lots of efforts, has developed computerized system for various activities of human resource management. The new software now works on full-fledged basis and has removed many obstacles to effectively monitor human resources' performance in the entire Institute. Human Resources Section also identifies different training programmes for capacity building of human resources in the Institute and appropriate staff members are deputed to attend training outside the Institute. As a continuous effort of capacity building of staff, regular training programmes of nurses and other staff are also being arranged internally with the help of NGOs and other organizations. Human Resources Department aims at recruiting and retaining best of talents for the Institute's day to day operations.



General Administration Department is also supported by the Secretarial Services. Secretarial staff which provides support for all general administrative activities like organization of workshops, seminars, conferences, publication of various materials, preparing agenda and minutes of meeting, circulars, maintenance of important office records, correspondence and public relations with the visitors visiting Institute to meet higher officials as well as Institute's other activities.

Secretarial Services Section



Store and Purchase Section



This section provides efficient services for supply chain management of consumable items required for day to day hospital operations. This section also conducts process of inviting e-tenders and fixing up the contracts as well as efficient management of the contracts. Timely supply and inventory management in any hospital not only smoothen the day to day operations but also prevents unnecessary stocking of various items. This section continuously strives to improve day to day supply chain management. A new software has been procured to improve the efficiency of inventory management.

Account Section



Account section looks after the maintenance of accounts, internal and statutory audits, government audits, government grant's management, donation from the public, payment of bills, receiving of hospital fees, payment of wages, etc. This section also plays a very vital role in efficiently managing the finances which earns interest on the funds which are not required to be used immediately. All the activities of this department are computerized and various data given by them helps the management in taking strategic decision on financial management. This section has introduced new services for patients' fee collection and continuously strives to ease out the patients and their relatives problems related to their service charges. This section also liaises with the Government and other authorities for management of grants and other compliance aspects.



Biomedical Engineering Section



Biomedical Engineering Section looks after the etender process for procuring new equipments, arranging technical committee, tender committee and purchase committee's meetings, contract management for procurement of new equipments, maintaining the schedule for maintenance of different high-tech medical equipments, etc. Efficient management of maintenance schedule helps Institute in keeping down time of the different equipments' negligible. The section also supports hospital's different departments in maintenance and troubleshooting of their equipments. This section is also responsible for providing efficient services in day to day management of operation theatres' equipments. They are also responsible for providing services at Siddhpur Cancer Care Centre, Siddhpur, managed by Gujarat Cancer & Research Institute under an agreement with Govt. of Gujarat. This section also provides training to Bio-medical engineering students, Diploma Biomedical Engineering students and I.T.I. students coming from different institutes. They also look after the work of AMC/CMC of various equipments for proper functioning of medical equipments. They also maintain records and check list of AMC / CMC for preventive maintenance.

Engineering and Maintenance Section



Institute's buildings are old and some of the buildings are more than 50 years old which requires continuous

maintenance for civil, electrical, electronics and communication, air conditioning works, etc. This



section looks after the day to day maintenance of civil work, interior decoration, electrical installations, air conditioning, lift maintenance, etc. This section also helps Institute in procurement of maintenance services as well as new construction work, electrical installations, air conditioning, communication, CCTV, etc. This section also provides efficient services for estate management, particularly maintenance of sound system in the Cama Hall and maintenance of guest houses, doctors hostel, staff quarters and COC, Vasna campus. Since last two years, the Institute has implemented GCRI Master Development Plan and during this process, the Institute is demolishing old buildings to make way for construction of new well planned multistoried building. During this process, the Institute has to relocate existing facilities at some other locations to maintain the patient care services. This department has efficiently managed relocation of the paediatric and other sections as well as hostel at the other convenient place. During demolishing also lots of reusable material has been salvaged at the same time the entire process has been completed safely.

Information Technology Section

The Information Technology section is enabler for better patient services. IT Team develops an IT strategy that supports the organization's objectives and helps build a strong competitive advantage. IT team also ensures that the right level of IT resources is available to meet changing levels of demand. IT team is focused on adaption of latest technologies, infusing new and cost effective ideas for ease of operations. Our road map is to move towards cloud based computing to minimize on premises IT infrastructure.

Business Continuity Planning (BCP), Network security, Data security, Data protection, License compliance, Cloud based email system, Hospital Information Management System are the daily activity of Information technology section.



Resident Medical Officer Section



This section supports following services

- Efficient management of Out Patient Department's services like Clinical Laboratories, Radiology etc.
- Coordination of various services between the Institute, GCS Medical College, Hospital and Research Centre, Community Oncology Centre, Vasna, Home Hospice Service, etc.
- They provide guidance and assistance to the patients for their treatment as well as benefit of various government schemes like MA Yojana, MA Vatsalya Yojana, SC / ST scheme, School Health Programme, support by other NGOs,

accommodation for patients' relatives around Civil Hospital campus etc.

They also conduct Patient Care Evaluation Meeting and decisions taken by the committee are conveyed to the management for execution and improvement of patient care services. Efficient support of Resident Medical Officers has helped large number of patients to avail financial assistance benefit of various government schemes for their treatment. We are proud to declare that we are treating the largest number of patients under the MA Yojana, MA Vatsalya Yojana and Lower Income Group Yojana.







K2. Educational Graphics & Medical Photography

Chief Photography and Publicity: Mr. Dharmesh Panchal (From March 2017 to October 2017) Photographer cum Artist: Mr. Rushi Patel



Services: The department plays an important role in catering all the needs of Photography and Graphic work of the institute for the purpose of clinical, educational and public awareness activities. The department has digital in-house production facility of educational material. The annual department workload includes more than 7300 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, Certificates of various courses run by Institute, Website photo & graphic updates, staff Identity Cards, Institutional Circulars and cancer awareness posters for mobile exhibition. 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. Department staff also involves in designing community awareness material and make it understandable for lay people.





K3. Library & Information Services

Librarian: Ms. Nuri Kalita Assistant Librarian: Mr. Jagdish Gohel



Activities: The Library render the services with continued all its activities to provide information support for teaching, academic and research work. The Library of GCRI is attempting to preserve the record of medical knowledge in the form of Books, Journals, Databases, and Scholarly scientific collection and provide more efficient service to Faculties, Resident Doctors, Medical students, Para medical and Research Scientists.

Collection Building: The Library introduced E-Tender process for procurement of books and Journals since 2014. The latest addition of Oncology books and journals to this library has enriched its collection and made it a good reference center particularly in the field of oncology. Though this, library has a vast collection of International and National journals of oncology and Back volumes archives. Out of the 43 current journals, 33 are International and 10 are National. The department continued its subscription to UpToDate and EBSCO Oncology online medical databases for the year 2018.

Digital Library Notice Board Service: GCRI Library started the digital notice board facility for

disseminate the relevant and quick information to their users from February 17, 2018 onwards. The Library keeps a record for displaying recent publications, upcoming conference, staff achievements and meeting on the Digital library notice board.

UpTodate Database Access Service: To enhance the usages utility, Doctors and other academic staff can access UpToDate Medical Database through user ID/Password in off campus or remote login. For Remote access Users can use their Mobiles, Tablets and Laptops to access the same database. Users can also access the UpTodate Database through hospital IP in the campus use only.

EBSCO Oncology Database Service: Total 122 Oncology E-Journals can access in hospital campus and Off Campus/Remote access through Mobile phones, Tablets and Laptops by the Library users of GCRI.

OVID & Clinical Key Databases access services through NCG: Library users can access OVID & Clinical Key database in hospital campus through



Hospital IP by forming part of National Cancer Grid Programme of Govt. of India.

Internet access / Wi-Fi service: GCRI Library is well equipped with computer lab having 17 nodes, broadband internet and WIFI facility.

Digital Library: GCRI digital Library is focused on the collection of digital objects that includes Institutional repository and online databases which are use exclusively for library members in the GCRI campus.

GCRI library database is managed through SOUL 2.0 software with Web OPAC (Open Public Access catalogue) facilities. Through use of Web OPAC facility, user can find any catalog information of GCRI Library. The feature of Web OPAC is search facility by specifying Author, Title, Subject, and Year of publication or any other field. Institutional repository of GCRI has been created to collect, preserve and dissemination of the scholarly output of GCRI

Books	
Books (2001 onwards)	1008
E-Books	160
Journals	
Current print journals	43 (International : 33, National: 10)
E-Journals	192
Back bound volume journals (2001 onwards)	4156
Databases:	
EBSCO : online full text e-journals database	122
UpToDate: Online Resources for Clinical Knowledge management Decision Support System	
Ovid : Online Wolters Kluwer LWW E-Journals	20
Clinical Key : E-resources for citation and full text	E-Journals 63 & E-books 74
Audio-Video (CD and DVD)	
E-Books and E-journals Special collection on conference report of Live Surgery - SELSICON 2011 - HPB Workshop 2012 - UGICON 2017	75 71 11 57
Institutional Repository	
PhD Thesis, DM, Mch, MD, MSc -Dissertation and Logbook (Softcopy & Hardcopy)	928
Question paper (DM, MCh, MD, MLT and MSc - Cancer Biology)	2007 onwards
Clinical photographs (Softcopy)	2009 onwards
Clinical meeting (Softcopy)	2010 onwards
Annual report of GCRI and GCS (Soft copy & Hard copy)	1972 onwards
Statistical data /Cancer registry (Soft copy & Hard copy)	2005 onwards
GCSMCH quarterly news letter	2013 onwards
GCS Research Journal	2013 onwards
	2014 onwards

Information sources:



K4. Nursing Services

Matron Grade I: Ms. Mona Darji, Ms. Manisha Katara



Clinical Services: Nursing wing provide diversified Oncology Nursing Service to the cancer patients through various specialties like Central Venous Devices (CVAD), Stoma Care and management, and Infection Control at various levels etc. In our Nursing Department, we have specially trained oncology nurses to give safe and effective nursing care to the Cancer patients.

CVAD and Stoma Care are run by specially trained nurses Mrs. Pinal Darji and Mrs. Nilam Dave, who are trained by one of the most exclusive and reputed TATA Memorial Hospital, Mumbai.

CVAD: We have started these services at GCRI since 2008. This is the first State of the art centre well known in Gujarat State. The services offered by CVAD include pre and post counseling of the cancer patients and give moral support to their relatives. Detail records of indoor and outdoor patients having Catheter Insertion and removal, and dressing of these patients are maintained. Patient's relatives are educated about care of catheter dressing and flushing of catheter. The records of port needle insertion, PICC

insertion, Hickman Catheter Insertion, Certofix Catheter Insertion are kept. The trained nurses teach the same procedures to Nursing Students, Junior/ Senior Nursing staff regarding the Catheter care.

Chemotherapy training for Nurses of District Hospital: One day chemotherapy training program have been organized to train the district level nursing staff, hence patient can get advantage of care in their area.

Details of Work Done	Number
Dressing	7062
Hickman Catheter Insertion	98
Port Insertion	115
Port Needle Insertion	1917
PICC Insertion	490
Certofix Insertion	232
Cavafix Insertion	27
Removal	368



Details of Work Done	Number
Chemotherapy, Blood Transfusion & Other Procedure Data	
Chemotherapy	42816
Blood Transfusion	3401
BMBX	3802
BBX	2042
IT	3700
CSF	1382
Ascitis Tapping	988
Pleural Tapping	868
Other Procedures	470

Details of Work Done	Number
Paediatric OPD	
New	1217
Chemotherapy	7753
PCV / PRP	805
IT	2294
CSF Cyto	674
BMBX	1033
BBX	343
CYTOGUTIC	204
IPT	315
R/M	39
Pleural Tapping	09
Ascitis Tapping	03
AD ADMI	1609
Adult Texol	4498









K5. Stoma Clinic

Ms. Nilamben Dave, Staff Nurse, Stoma Care



Clinical Services: This is the first Stoma Clinic in Gujarat State started on March 4, 1983. In Stoma Clinic two Enterostomal Therapist, CET special qualified are working. 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) Select 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	Number
New Patients	496
Old Patients	2392
Number of colostomy bags	35197



K6. Pharmacy

Chief Pharmacist & Store Officer: Mr. Arvindbhai Kotadiya



Services: About 451 medicines are dispensed from pharmacy. The Pharmacy Computers are linked with all bill collection counters to know the day-to-day availability stock of medicines in pharmacy. Only outdoors patients (with Rx of Tablet/Capsules) are supplied Medicines from ground floor Room No. 25, which is just near to cash collection counter. Indoor Patients (admitted in wards) are dispensed medicines from second floor (Dispensing Pharmacy for Indoor patients) near to B.M.T ward Room No. 210 which remain opened from morning 8:00 am to evening 8:00 pm. Day care patients are dispensed chemotherapy and its supporting drugs near to Chemotherapy ward Room No.7 defined as Chemotherapy Pharmacy. Pediatric patients are supplied medicines from Pediatric Pharmacy located at GCSMCH, Naroda. Arrangements are made for the pharmacy requirement of Siddhpur Cancer Care Centre. Online Ward Indents system is established which is implemented successfully. All Departments as well as wards for their Medicines requirement indents are supplied from Main store - first floor above Annapurna Canteen. Management of Pharmacy procurement, distribution and control of all pharmaceuticals used within the institution and for management of personnel within the pharmacy department is controlled by Main Pharmacy Store first floor above Annapurna Canteen. Patients of MA Yojana and 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 remains open from 8.00 AM To 8.00 PM.



K8. Prosthesis & Rehabilitation

Head: Dr. Hemen Jaju Assistant Medical Sculpture: Dipan Soni



Clinical Services: The department prepares artificial limbs, organs, part of face and other prosthesis. The prostheses mentioned below are made from silicone

Details of Work Done	Number
Ear Prosthesis	03
Eye Prosthesis	05
Lip Prosthesis	01
Cheek Prosthesis	10

Academic Activities: Total 17 MDS students attended the department for one month training for external prosthesis of maxillo facial. Total 1450 MSc, BSc, GNM nursing students and tutors also come to

and Acrylic. A total of 1794 patients attended for prosthesis and of them 733 were new patients and 1061 were follow-up patients.

Details of Work Done	Number
Thumb Prosthesis	01
Finger Prosthesis	02
V mould	08
Breast Prosthesis	1380
Total number of prosthesis	1410

learn about External Prosthesis as it is one of the subjects of their curriculum. Patients are also given training of how to use the Prosthesis and are rehabilitated.



L. CANCER BIOLOGY

Department of Cancer Biology was established in 1980 with primary research focus area on Translational Cancer Research. The department has now metamorphosed into 5 state of the art research laboratories involved in basic and applied research in cancer biology and caters advanced diagnostic services for cancer patients.



Research Activities: Since its inception, the department is actively engaged in clinically oriented research projects and has contributed significant data having clinical implications for cancer patients. The major areas of research are Cancer aetiology, Signal transudation, Genomics, Cytogenetics, Pharmacogenomics, Proteomics, Stem cell biology etc. Based on our previous findings and our internationally published data, major ongoing research projects of the department are aimed to explore cancer biology (molecular signatures) with following major objectives:

- Identification of novel mutations/polymorphisms in Indian patient population
- Geographic variation in aetiologic factors, genetic profile and proteomics/glycoproteomics profile between patients within India
- Identification of newer drug targets and drug discovery

- To develop Salivaomics approach as Non-Invasive tool for early detection of oral cancer
- Role of cancer biology to help cancer screening programmes at molecular level which is the need of the day in India

Clinical Services: More than 200 clinical investigations are done using advanced diagnostics and molecular techniques such as: Immuno-chemiluminescence enzyme assay, Conventional cytogenetics, FISH, Multi-color FISH, PCR, Real Time PCR, ELISA, Immunohistochemistry, Flow Cytometry etc.

Educational Activities: The department runs Post-Graduate Degree Courses such as M.Sc. (Cancer Biology), M.Phil. and Ph. D. (Life Science) in affiliation with Gujarat University.



L1. Immunohaematology Lab

Associate Professor & In-charge: Dr. Hemangini Vora Research Assistants: Dr. Kruti Rajvik, Dr. Shalvi Mehta (up to June 2017), Dr. Birva Raiya Junior Research Assistant: Dr. Nupur Patel



Clinical Activities: The laboratory is well equipped with three Ventana Benchmark XT automated stainer for immunohistochemistry work and FACS Canto 10 colour flow cytometer for leukemia/lymphoma i m m u n o p h e n o t y p i n g. E v a l u a t i o n o f immunohistochemical markers for differential

histopathological diagnosis and predictive markers such as ER, PR and Her-2-neu has been carried out at the lab. Immunophenotyping of leukemia / lymphoma has also been carried out along with PNH and CD34 evaluation.

Details of Work Done	Number of Tests	Number of Patients	
Clinical work			
Immunohistochemistry			
Immunohistochemical Markers (92 markers)	27109	3969	
Estrogen and Progesterone receptors (ER/PR)	2931	1405	
Her-2-neu	1512	1624	
Total	31429	6928	
Flow Cytometry			
Immunophenotyping	12895	875	
CD 34 percentage	80	27	
PNH study	175	24	
Total	13150	926	



Details of Work Done	Number of Tests	Number of Patients
Research work		
Immunohistochemical markers	550	50
Markers by Flow Cytometry	120	50
Immunohistochemical markers for dissertation	650	200

Academic Activities: The lab is involved in teaching of MSc Cancer Biology, MPhil and PhD students. The lab enrolls MSc, MPharm, MDS and MD students as observers.

Research Activities: The main areas of research include development of cost effective protein panel by CGH array and transcriptome sequencing of triple negative breast cancer. The molecules of EMT pathway, cancer stem cells, and molecules of cancer

stem cell niche are being evaluated in breast cancer patients. To identify genes involved in pathogenesis of acute myeloid leukemia. In B-ALL, role of Ikaroz gene and MRD evaluation is carried out by flow cytometry.

Major Achievement: Devisha Mavani, MSc Cancer Biology Student, received second prize for poster presentation in National Conference on New Horizons in Cancer Biology at AMA, Ahmedabad on March 16-17, 2018.







L2. Tumor Biology Lab

Assistant Professor & In-charge: Dr. Nandita Ghosh Research Assistants: Dr. Toral Kobawala, Dr. Kinjal Gajjar



Clinical Services: HLA Typing Tests for determination of Class I and II HLA typing antigen A-B-DR in patients who are recommended for bone marrow transplantation such as thalassemia and blood cancer. It is being performed by PCR SSP analysis, in a 96 well plate format, comprising different allele- or sequence- specific primer sets in each well along with the primers for amplification of sample's internal control. Evaluation of the results is done by agarose gel electrophoresis and subsequently interpreted using online software.

Details of Work Done	Number
HLA Typing Tests	158

Academic Activities: The division participates in various academic activities of the institute. They comprise of weekly seminars of the department, enrollment of PhD students and MSc Dissertation students. Moreover, the division is actively involved in MSc Cancer Biology course. Lectures and practicals for students of MSc Cancer Biology are being organized by the division. Also the examinations papers are set, practical exams are being conducted followed by assessment of the answer sheets by the staff members of the division.

Research Activities: At present, the research activities of this division are carried out in various malignancies such as breast, colorectal, ovarian and thyroid malignancies with the focus in studying the clinical relevance of multiple biologic markers by fully exploiting the genetic and epigenetic machinery involved in the initiation and progression of cancer using recent technologies. It also aims in exploring drug resistance and toxicity biomarkers at molecular level. In breast cancer, research revolves around the vital role of Wnt signaling pathway molecules and antagonists. In colorectal cancer, the role of Thymidine synthetase, DPYD, MTHFR, ERCC1, ERCC2, XRCC1 and GSTP1 have been studied. Further, their interaction with microRNAs will be evaluated, and



subsequently their relevance for patient management. 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. Subsequent to statistical analysis, the data is presented in national level conferences and published in national/international journals. **Major Achievements: Vibha Mehta rotating trophy** for meritorious performance and research publications during Hospital Week Celebration, February 2018.

Dr Kinjal Gajjar, Research Assistant, received Dr. T B Patel Gold Medal (Young Scientist) for oral presentation during Hospital Week Celebration, February 2018.







L3. Clinical Carcinogenesis Lab

Senior Scientific Officer & In-charge: Dr. Trupti Trivedi



Clinical Services: Diagnostic test of IDH1 and IDH2 Mutations by Real-Time PCR from clinical samples are performed since it is essential for molecular classification and predict treatment response of patients having brain tumors.

Details of Work Done	Number
Clinical Work	
IDH1 and IDH2 mutation detection by real-time PCR	19
Research work	
DNA and RNA extraction from tissue	60
IHC staining of ABCG2, Nanog, CD68, CD163, OP-18, from primary tumors of oral cancer patients and their corresponding adjecent LNs	90

Academic Activities: The laboratory is involved in various academic activities including presentation and participation in weekly seminars conducting by the department. Theoretical and practical demonstration of molecular biology techniques to MSc Cancer Biology students, dissertation students, and observers from various universities. The laboratory actively participates in Conferences and CME organised by the Cancer Biology Department.

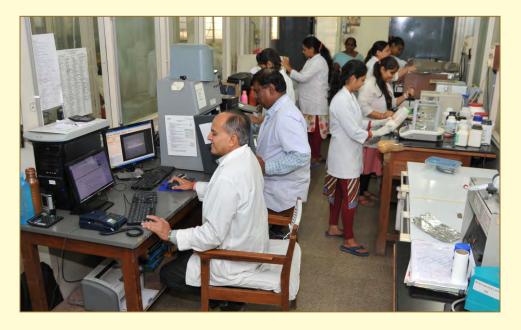
Research Activities: The main research area of this laboratory is to elucidate genomic landscaping from the tissue samples and liquid biopsy specimens of adult and paediatric brain tumor patients. Study of IDH mutations and MGMT methylation for low and high grade glioma patients. For molecular classification and appropriate tailored treatment of medulloblastoma and brain stem glioma patients exploration of panel of molecular markers. Study of copy number variations of MYCN and ALK from tissue and cell-free DNA specimens of neuroblastoma patients.

Major Achievement: Dr. Trupti Trivedi, Senior Scientific Officer, received award for Best Paper presentation at 7th International Conference on Translational Cancer Research held at Chennai from February 8-11,2018.



L4. Molecular Oncology Lab

Professor & Head: Dr. Prabhabhai Patel Senior Scientific Officer and In Charge: Dr. Jayendra Patel Junior Research Assistants: Dr. Kinjal Patel, Dr. Shruti Patel



Clinical Services: Quantitative/Qualitative analysis of BCR-ABL fusion gene, PML-RAR fusion gene, JAK-2 V617 mutations and C-Kit mutation are performed by Real-Time Polymerase Chain Reaction. FLT-3 ITD and D835 mutation are carried out by restriction fragment length polymorphism method.

Details of Work Done	Number
BCR-ABL fusion gene	1190
PML-RAR fusion gene	80
FLT3-ITD & D835 Mutation	180
JAK-2 V617F Mutation	51
C-KIT Mutation	33

Academic Activities: The lab faculties are involved in teaching of MSc Cancer Biology students. Other staff members also participated in practicals and other academic activity for M.Sc. students. Theoretical and practical demonstration of various molecular biology and biomedical techniques were carried out for the students who came as observers from various universities.

Research Activities: The laboratory is actively involved in studying tobacco carcinogenesis and other molecular mechanisms of tobacco related cancers, mainly oral cancer. Further, the study of glycosylation changes and associated molecular markers as the hallmark of cancer. Study of clinical significance of interactions between vitamin D and related molecular pathways, p53 and DNA repair genes in breast cancer is also undertaken. Studies on prevalence of high risk human papilloma virus infection in cervical cancers in population from Gujarat West India and evaluation of BCR-ABL independent molecular mechanisms in Imatinib resistance CML are also ongoing.

Major Achievements: Dr. Kinjal A. Patel, Junior Research Assistant, received first prize for Young Scientist oral presentation at National Conference on



New Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.

Dr. Kinjal D. Patel, Junior Research Fellow, received third prize for Young Scientist oral presentation at National Conference on New Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.

Ms. Kruti A. Mehta received first prize for Poster presentation at National Conference on New

Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.

Ms. Maitri De, Dissertation Student, received third prize for Poster presentation at National Conference on New Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.

Dr. Jayendra Patel, Senior Scientific Officer, received Employee of the Month for January 2018.







L5. Stem Cell Biology Lab

Senior Scientific Officer and In Charge: Dr. Franky Shah Research Assistant: Dr. Apexa Raval Junior Research Assistants: Dr. Urja Desai, Dr. Jigna Joshi



Clinical Services: Lab is actively involved in EGFR mutation analysis from clinical samples.

Details of Work Done	Number
EGFR Exon study	245

Academic Activities: The lab faculties are involved in teaching of MSc Cancer Biology students. Theoretical and practical demonstration of molecular biology and biomedical techniques was carried out for students who came as observers from various universities.

Research Activities: Cancer Biomarkers Development, Signaling pathways in cancer, role of tumor microenvironment in cancer, Stem cells and Cancer stem cells, DNA damage and repair pathways, Cancer epigenetic, identification of molecular and therapeutic targets for cancer, and Hereditary Cancer genetics.

Major Achievements: Dr. Apexa Raval, Research Assistant, received first prize for poster presentation at National Conference on New Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.

Dr. Urja Desai, Junior Research Assistant, received second prize for Young Scientist for oral presentation at National Conference on New Horizons in Cancer Biology held at Ahmedabad Management Association during March 16-17, 2018.



L6. Cytogenetic Lab

Professor & Head: Dr. Prabhabhai Patel Senior Scientific Officer & In Charge: Dr. Pina Trivedi Research Assistant: Dr. Dharmesh Patel Junior Research Assistants: Darshita Patel, Mahnaz Kazi



Clinical Services: Cytogenetics Lab 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.

The department is equipped with Metafer, Automatic Metaphase and Interphase Scanning and Capturing System for Karyotyping and FISH (Fluorescence In Situ Hybridization) assays. It has a fully motorized epi-fluorescence 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 from 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 4 other systems from Metasystems, Germany. 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. Department has also started solid tumor FISH for Her-2 neu for clinical diagnostic work.



Details of Work Done	Number
Conventional Cytogenetic study of leukemia from bone marrow/Peripheral Blood	1159
FISH tests for following genetic rearrangements:	
Translocation 9;22	807
Translocation 8;21	232
Translocation 15;17	79
Translocation 16;16/inversion 16	233
Rearrangements of 5q (two different loci)	44
Rearrangements of 7q (two different loci)	40
Copy number of X &/or Y	79
11q MLL	81
Translocation 12;21	02
Her-2 Neu FISH	86

Academic Activities: The Lab enrolled graduate and post-graduate students from universities across India for observership, project work and dissertation. Staff of the Cytogenetic Laboratory is involved in M.Sc. Cancer Biology course for teaching and practical work. Cytogenetic Laboratory also enrolled PhD students with Gujarat University for dissertation. Weekly seminars are also conducted in the Laboratory by staff members to discuss recent trends in cytogenetic cancer research.

Major Achievements: Ms. Darshita Patel, Junior Research Assistant, received first prize for oral presentation in National Conference on New Horizons in Cancer Biology at AMA, Ahmedabad on March 16-17, 2018.

Ms. Dhara Bhimani, Junior Research Fellow, received second prize for poster presentation in National Conference on New Horizons in Cancer Biology at AMA, Ahmedabad on March 16-17, 2018. She also received Silver Medal for Dr. T. B. Patel Young Scientist Award competition on Hospital Day Celebrations on February 3, 2018.

Ms. Mahnaz Kazi, Junior Research Assistant, received third prize for poster presentation in National Conference on New Horizons in Cancer Biology at AMA, Ahmedabad on March 16-17, 2018.

Conference Organized: National Conference on New Horizons in Cancer Biology was organized on March 16-17, 2018 at Ahmedabad Management Association. **Dr. Pina Trivedi** was Organizing Secretary and **Dr. Dharmesh Patel** was Treasurer. The core committee members were Darshita Patel, Mahnaz Kazi, Priya Varma, Dhara Bhimani, Nehal Patel, Khushboo Joshi, and Vagmi Parmar.







M. Educational Activities

The Institute is engaged in various types of educational and training programmes, like (M1) Activities of the Scientific Research Committee, (M2) Clinical Research Meetings, (M3) Complementary Training Programme to Formal Education, (M4) Formal Educational Courses, (M5) GCS Research Journal, (M6) Hospital Day Celebration, (M7) Professional Training to Doctors and Scientists, (M8) Professional Training to Paramedics, and (M9) Staff Training-Intramural and Extramural.

(M1) 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 Vvas**, Incharge Director (up to December 2017), Dr. Shashank Pandya, Incharge Director (from January 2018) 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 three 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. Annual Meeting of the Scientific Research Committee was held once. However, there were as a part of the scientific review committee, 6 scientific meetings (July 12, September 30, October 10, and December 13, 2017, and January 10, 2018) were held. The Ethics Committee Meetings (April 29, July 15, and September 23, 2017, and January 13, 2018) were held under the chairmanship of Hon'ble Justice Shri Bankim Mehta, Shri Naravanbhai Patel, and Member-Secretary Dr. Shilin Shukla. Invited members were Dr. Rakesh Vyas (April - December), Dr. Shashank Pandya (January onwards) Shri Kshitish Madanmohan, Dr. Ava Desai, Dr. Bhavna Shah, Dr. R. K. Dikshit, Dr. Amar Vyas, Shri Himanshu Patel, Ms. Bhagvati Patel, Ms. Hansa Joshi, Dr. (Col.) Yashvant Joshi, Dr. Geeta Joshi, Dr. Kiran Kothari, Dr. Asha Anand, Dr. Prabhudas Patel, Dr. Hemangini Vora and Dr. Franky Shah.



(M2) Clinical Research Meetings

Regular bimonthly academic and scientific clinical meetings are arranged at Cama Hall, GCRI, on 2nd and 4th Saturdays. **Dr. Franky Shah**, Senior Scientific Officer, and **Dr. Sonal Patel**, Associate Professor, is the coordinator of this activity and during the year, a large number of clinical and research subjects are discussed. Total 15 Clinical presentations, 17 Journal presentations, and 1 Library presentation were

discussed at the Clinical Meetings from April 2017 to March 2018. **Dr. Dipika Patel,** Associate Professor of Anaethesiology and **Dr. Bijal Patel,** Associate Professor of Gynaecological Oncology are the coordinators of Mortality Morbidity Case Meeting, and 11 Mortality Morbidity Case Meeting were discussed at the Clinical Meetings from April 2017 to March 2018.

(M3) 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 2253 students from 138 institutions had taken benefit of learning and training facility and opportunity provided by us.

(M4) 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, MPhil in Life Sciences and PhD degree from Gujarat University (Life Sciences and Medical Microbiology).

(M5) 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.





(M6) 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 from January 27 and February 3, 2018 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. The following were the awardees:

Dr T. B. Patel Oration awarded to **Dr Anil D'cruze**, **Director, TATA Memorial Hospital, Mumbai**. He delivered a lecture on 'Balancing clinical practice and research towards better outcomes'. Late Shri Ramniklal J. Kinarivala Cancer Research Award conferred to Dr. D Karunagaran, Professor of Biotechnology, IIT Madras, Chennai. He delivered a lecture on 'Regulation of miRNAs and their targets in cancer cells: Implications for cancer therapy'.

Shri Madanmohan Ramanlal GCRI Luminary Award conferred to **Dr. Shilin N. Shukla**, Former Director of GCRI, for his valuable contribution to GCRI and in his discipline Medical Oncology.

Shri Punamchand Parmar, IAS, Additional Chief Secretary, Health and Family Welfare Department, Government of Gujarat, was the Chief Guest of the Hospital Day Function. **Shri Pankaj R. Patel,** Executive Chairman, was the Guest of Honour of the Function.

Dr. Jayanti Ravi, Principal Secretary, Health Department, GOG, was the Chief Guest at the Hospital Day Annual Function at Sardar Vallabhbhai Patel Smarak Hall, Shahibaug on February 2, 2018.



Shri Punamchand Parmar, Additional Chief Secretary and Shri Pankaj R. Patel, Executive Chairman at the function.



Dr T. B. Patel Oration awarded to Dr Anil D'cruze, Director, TATA Memorial Hospital, Mumbai.





Shri Ramniklal J. Kinarivala Cancer Research Award conferred to Dr. D Karunagaran, IIT Madras, Chennai.



Shri Madanmohan Ramanlal GCRI Luminary Award conferred to Dr. Shilin N. Shukla, Former Director of GCRI.

Vimla Agrawal Trophy (Clinical Department) for maximum Publications



Gynaecological Oncology - First



Radiotherapy - Runners-up

Vibha Mehta Trophy (Research Division) for maximum Publications



Tumor Biology Lab



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

	Clinical Wing	Research Wing
Gold Medal	Dr. Akshay Shivchand Medical Oncology	Dr. Kinjal Gajjar Tumor Biology Lab
Silver Medal	Dr. Abhishek Kumar Pathology	Ms. Dhara Ladani Cytogenetics Lab
Bronze Medal	Dr. Jaymin Shah Muskuloskeleton Oncology	Ms. Ridhi Gokani Molecular Oncology Lab









Entertainment Programme on Hospital Day

Dr. Jayanti Ravi, Principal Secretary, Health Department, GOG, at the Function.



















(M7) Professional Training to Doctors and Scientists (Conferences, Workshops)

No.	Workshop/Conference	Organizers	Date
1	A Workshop on Opioids availability in Gujarat	Dr. Priti Sanghvi Palliative Medicine	April 11, 2017
2	CME on Head, Face & Neck Oncology Workshop	Dr. Hitesh Rajpara Radiodiagnosis	December 10, 2017
3	Basic Life Support & Advanced Cardiac Life Support Workshop	Dr. Jayshree Thakkar Dr. Kinna Shah Anaesthesiology	January 15, 2018
4	National Conference on New Horizons in Cancer Biology	Dr. Pina Trivedi Cytogenetics	March 16-17, 2018

(M8) 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. Shashank Pandya** is the Chairperson, and **Dr. Priti Trivedi**, Professor of Pathology is the Coordinator of the course. All the doctors of the Pathology, Microbiology and Blood Bank 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 basis 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 activites are monitor by Coordinator. Coordinator reports all the activities of MLT course to the Chairperson and Co-chairpersons regularly.



(M9) Staff Training – Intramural and Extramural

No	Name	Designation	Division/ Department	Subject of Training and Place	Date
1	Dr. Jayshree Thakkar Dr. Priti Patel	Professor Assistant Professor	Anaesthesiology	MCI Nodal Centre Med Edu Training, Revised Basic Workshop with ATCOM Module (MET)	11-13 Sep,2017
2	Dr Dipika Patel Dr. Priti Patel	Associate Professor Assistant Professor		Fiberoptic & Videoscopic Airway Management Training, Baroda	7-9 July, 2017
3	Dr Dipika Patel	Associate Professor		Research methodology and biostatistics by ICMR-NICPR, Ahmedabad	23 July, 2017
4	Dr Dipika Patel			Ultrasonography in Neuroanaesthesia, Chandigarh	6 Jan, 2018
5	Dr Kinna Shah Dr. Priti Patel	Assistant Professors		USG guided Blocks, ISACON, Ahmedabad	5 Oct, 2017
6	Dr. Prabhudas Patel	Prof & Head	Cancer Biology	Successfully completed NABH Assessors Training for "Ethics Committee Accreditation" and now empanelled as NABH Assessor for Ethics Committee Accreditation" Mumbai	15-17 Dec, 2017
7	Dr. Hemangini Vora	Associate Professor	Immunohaematology	Bioinformatics Leads in Gujarat-BLG- 2017; Advances in Computer Aided Drug & Discovery" at, Gujarat University, Ahmedabad	21-22 Dec, 2017
8	Ms. Kruti Mehta	Junior Research Fellow	Molecular Oncology Lab		
9	Vaishali Ravani	Statistician	DCOMR	Training workshop for staff of Hospital Based Cancer Registries and Patterns of Care and Survival Studies in Regional Cancer Centers at National Cancer Registry Programme, NCDIR-	21-22 Mar, 2018
10	Mr. Viral Parmar	Social Worker		ICMR, ICMR Complex, Bengaluru	
11	Dr. Jahnvi Gandhi	Junior Lecturer	Pathology	Uro-oncology and Uro-Pathology Training, Nadiad	22-23 Dec, 2017
12	Dr. Kunal Bhardwaj	Consultant Gastroenterologist	IVTC	Received Training of Advanced EUS, Meerut	04-12 Feb, 2018
13	Dr. Sonal Patel Shah	Associate Professor	Radiation Oncology	2 nd ESTRO-AROI GYN Teaching Course, Lucknow	8-11 Mar, 2018



N. Lion Bharat Kshatriya Community Oncology Centre



Clinical Services: (A) At Community Oncology Center, we provide health check-up services to health aware people. These health check-up plans are mainly focused on cancer related screening tests to diagnose different types of cancers in community. PAP test and mammography are the key features of health checkup plans to diagnose cervical cancers and breast cancers in women. Consultation by physician, cancer surgeon and gynaecologist are part of heath check-up plans. (B) Hospice services: 20 Beds, in 5 cottages in campus, are allotted to the cancer patients in advanced stage of disease. They are given palliative care by nursing staff. Counselling of patients and caregiver is done to address their psychosocial and spiritual issues. Regular follow-up for OPD patients many activities are planned to rehabilitate them. The aim is to improve Quality of Life of patients and family.

Health Checkup (male)	1188
Health Checkup (female)	3529
Patients from Urban Health Center	0361
Total	5078

A. Health Checkup



Test	Total No. of Patients	Benign lesions	Suspicious malignancy	Confirmed Malignancy (FNAC/Biopsy)
Mammography	3144	1247	72	40
X – Rays Chest	4375	-	05	-
USG Abdomen	4211	-	54	-
PAP Test	2911	-	01	01
FNAC at COC	25	-	_	13

A. Hospice

Hospice Admission	326
Hospice Discharge/DAMA	253
Hospice Death	42
Transfer to GCRI	20

Academic Activities: Hands on Training in Pain & Palliative Care as part of course IACA, Pallium India, GCRI was taken up at Hospice from November 20 to November 30, 2017 for 2 doctors and 4 nurses.

One day program on Communication Skill in Palliative care was held on December 3, 2017, as part of IAPC Certificate Course. 23 doctors and nurses participated in this training.

Hands On Training in Pain & Palliative Care under National Program for Palliative Care, Govt of Gujarat was organized on December 13, 2017 for 30 doctors and Nurses from six districts of Gujarat.

Onco – Caregivers Certificate Course run by Sanjeevani, TISS, GCRI & GCS was organized from June 2017 to November 2017 for 20 candidates. The second batch of the same course has been started from March 8, 2018 for 19 candidates.

Hands on Training was taken up for 9 MSc Nursing students of IKDRC Nursing School from February 20 to March 10, 2018 at Hospice.

Major Achievement:

Dr. Geeta Joshi, Chief Executive Officer, Former Prof & Head, Palliative Medicine & Former Dy Director, GCRI, is honoured with 'SAARC Country Award for Excellence & Leadership in Palliative Care' by Cancer Aid Society, on December 8, 2017. She delivered, Presidential Key Note Address, during 33rd ISSPCON on February 2, 2018 at New Delhi. She has been awarded Honorary Fellowship in Pain by Indian Society for The Study of Pain.

Public Services Offered:

A. Cancer Exhibition:

Community Oncology Centre is having `PRAYAS` - a permanent cancer exhibition located on 1st floor of main building. Every year number of students from school, nursing colleges and medical colleges take educational visit of this exhibition. Exhibition provides basic information regarding common cancer in men and women, its Signs and symptoms, diagnosis, prevention and treatment. It also conveys message to the community people on importance of healthy life style, healthy food habits, quit tobacco and alcohol consumption, avoid junk food and smoking, etc. These massages are conveyed to the visitors by attractive poster, audio-visual presentation and awareness talk.

Exhibition Visitor	Total : 7422
• Medical – Para Medical	2422
School & Colleges	1868
Others NGO Staff & Society	3132



B. Breast Cancer Awareness and PAP Test for 250 women of BPL families was taken up with support of 'Nalini Shah Cancer Fund, Anekant Community Center' Los Angeles USA in October – Breast cancer awareness month. This program will be carried forward with support from 'Vanitaben Mehta' donation to support mammography and PAP test in 150 women of BPL families.

C. Cancer and tobacco awareness Camp was organized during 'Family Day' of Rexroth Bosch India Ltd. on October 8, 2017 at Sanand. More than 2500 participants were encouraged for health check-up and quittobacco.

D. Vyasan Mukti program at Chadasna Gam Community was taken up by COC Staff, near Koba Circle, on December 25, 2017. **E.** Tobacco awareness camp was organized on February 27, 2018 for 50 workers of Samarth Diamond Factory at COC. They visited the exhibition and were examined by surgical oncologist to rule out oral cancer.

F. Laughter Yoga Session was conducted on January 17, 2018 by Archana Rao from Bengaluru for Hospice patients, care givers and COC staff. Total 55 participants joined the session.

Staff Training at Community Oncology Center: 5S training was given to staff of COC by Dr Yashavant Joshi, Chairman, Unnat Gramsamaj Nirman Kendra, Vadodara. The training was regarding office arrangements, etiquette, and clean and tidy work place.









O. Community Out-Reach Activities

Cancer Detection and Blood Donation Camps, Cancer Awareness Exhibition

The GCRI along with the Gujarat Cancer Society organises regular cancer detection camps and cancer

awareness exhibition in various parts of the State.

Cancer Awareness Camps: 22 Camps 18 Places

Nathatanimadhi, Hathla Village, Dwarka (04/04/2017); Bombay Chowk, Gujarat Housing Board, Bapunagar (29/05/2017); Modi Nagar Vistar, Chamanpura (30/05/2017); Parmeshvarna Chhapra, Asarwa (31/05/2017); Kameshwar Mandir, Gadat (03/06/2017); The Megical Touch Event, Gandhidham, Kutch (02/07/2017); Community Health Centre, Lalpur, Jamnagar (12/11/2017); ShardaJhatkia Hospital, Gondal, Rajkot (26/11/2017); Jayshree Propack Pvt Ltd, Changodar, Ahmedabad (13/12/2017); Gujarat Counsil on Science and Technology, Sciency City, Ahmedabad (27/12/2017 to 31/12/2017); Central Account General, Navrangpura, Ahmedabad (11/01/2018); Civil Hospital, Mehsana (03/02/2018); AOGIN, Popatiyavad, Gomtipur, Ahmedabad (09/02/2018); AOGIN Sarangpur, Ahmedabad (12/02/2018); AOGIN, Amraiwadi, Ahmedabad (28/02/2018); Pandit Deenadayal Upadhyaya Medical College, Civil Hospital, Sadar, Rajkot (11/03/2018); Hanumant Hospital, Mahuva, Bhavnagar (11/03/2018); Shurvir Natha Bhagat Seva Samiti, Porbandar (18/03/2018)

Cancer Detection Camps with GCRI Sanjeevani Rath Camps: 48 Camps 48 Places

Shri A. D. Sheth Hospital, Ranpur, Botad (2/4/2017); Annapurna Trust, Modasa, Sabar Kantha (09/04/2017); Somnath Secondary And Higher Secondary School, Dorasa, Kodinar (14/04/2017); Kashiba Hospital, Vatva (16/04/2017); Jilla Panchayat, Bopal, Ahmedabad (17/04/2017); Sub District Hospital, Deesa (19/04/2017); Jilla Panchayat, Detroj, Ahmedabad (22/04/2017); Jilla Panchayat, Bavla, Ahmedabad (21/04/2017); Jilla Panchayat, Dhandhuka, Ahmedabad (23/04/2017); Jilla Panchayat, Viramgam, Ahmedabad (26/04/2017); Jilla Panchayat, Sanand, Ahmedabad (27/04/2017); Jilla Panchayat, Dholka, Ahmedabad (29/04/2017); Jilla Panchayat, Mandal, Ahmedabad (30/4/2017); Dev Daya Kelavani Mandal, Tankara, Morbi (13/05/2017); Dev Daya Kelavani Mandal, Lajai, Morbi (14/05/2017); Rotary Club of Gandevi, Navasari (04/06/2017); Maheshwari Hall, Kanseriya Road, Palanpur (18/06/2017); Ramkrushna Vidhyalaya, Maninagar, Ahmedabad (02/07/2017); Shri Chhotubhai Patel Hospital and Community Health Centre, Sinor, Vadodara (05/07/2017); Shri Swaminarayan Gurukul, Gandhinagar (23/07/2017); A.M.C. Urban Health Center, Gota, Ahmedabad (09/08/2017); A.M.C. Urban Health Center, Isanpur, Ahmedabad (10/08/2017); Mamta Hospital, Godhra Highway, Lunawada (19/08/2017); Cantonment, Shahibaug, Ahmedabad (16/09/2017); Adarsh Nivas School, Julasan (23/09/2017); Civil Hospital, Mahesana (30/09/2017); High Court, Sola, Ahmedabad (26/10/2017); Palanpur Female Hospital, Palanpur (05/11/2017); Community Health Centre Lalpur, Jamnagar (12/11/2017); Primary Health Centre, Linch, Mahesana (23/11/2017); Sharda Jhatkia Hospital, Gondal (26/11/2017); ECHS Polyclinic C, Near Air Port Circle, Ahmedabad (16/12/2017); Kadi SarvaVidhyalaya, Gandhinagar (20/12/2017); Wings Hosptial, 2 Sumangalam Society, Thaltej, Ahmedabad (24/12/2017); Malpur Road, Modasa, Arvalli (07/01/2018); Sadra, Kadi (10/01/2018); Pansora, Umreth (17/01/2018); Ganeshpura, Mehsana (20/01/2018); A.Y. Dadabhai Technical Institute, Kosamba, Surat (25/01/2018); Village Rupal,



Gandhinagar (02/02/2018); Civil Hospital, Mehsana (03/02/2018); Goenka Eye Hospital, Vadhwan Road, Limbdi (04/02/2018); Oswal Centre, Jamnagar (10/02/2018, 11/02/2018); Manibabhavan, Maninagar (25/02/2018); Samajratna Chinubhai Manjula Bhagini Mitramandal, Sarvodaya Society, Palitana (04/03/2018); Hanumant Hospital, Mahuva, Bhavnagar (11/03/2018); SMC Air Firce Station, Vayushakti Nagar, Gandhinagar (15/03/2018)

Cancer Detection Camps (Without Sanjeevani Rath): 9 Camps 9 Places

Vallabhacharyaji Trust Hospital, Maninagar, Ahmedabad (21/04/2017); Shree Maher Suprime Counseling, Ratya, Porbandar (14/05/2017); Indumadhu Hospital, Chandi Bazar, Jamnagar (28/05/2017); Government School Palaj, Gandhinagar (06/12/2017); Madhystha Jail, Sabarmati, Ahmedabad (10/01/2018); AOGIN, Popatiyavad, Gomtipur, Ahmedabad (09/02/2018); AOGIN Sarangpur, Ahmedabad (12/02/2018); Civil Hospital, Mehsana (21/02/2018); AOGIN, Amraiwadi, Ahmedabad (28/02/2018)

Cancer Detection Camps with Siddhpur Sanjeevani Rath: 8 Camps 8 Places

Civil Hospital, Mehsana (23/01/2018); Nutan Medical Collage, Visnagar (25/01/2018); Pandit Deenadayal Upadhyaya Medical College, Civil Hospital, Sadar, Rajkot (11/03/2018); Red Cross Bhavan, Police Line Road, Dahod (17/03/2018); Lions Club Zalod (18/03/2018); Sindhubhavan Hospital, Kubernagar, Ahmedabad (21/03/2018); Charodi, Gandhinagar (25/03/2018); Siddhpur Cancer Care Centre, Siddhpur (27/03/2018)

Blood Donation Camps: Camps 64 and Places 57

AMCO Bank, Navrangpura, Ahmedabad (07/04/2017); Sardar Chowk, Krishnanagar, (07/04/2017), Mangaldip Party Plot, Amraivadi, Ahmedabad (16/04/2017); AMC School, Ambikanaga, Odhav, Ahmedabad (20/04/2017); Mangaleshvar Mahadev, Aavkar Hall, Maninagar, Ahmedabad (28/05/2017); City Corner, Shukun Mall, S.G. Highway, Ahmedabad (09/06/2017); Nicky Hospital, Shree Ugti Corporate Park, Kudasan, Gandhinagar, (11/06/2017, 31/08/2017, 03/12/2017, 04/03/2018); Room No 63, GCRI, Civil Hospital Campus, Asarva, Ahmedabad (14/06/2017); Arjun Tower, Bhuyangdev Cross Road, Ahmedabad (18/06/2017); J.K. Lakshmi Cement, Moti Bhoyan, Dist.Gandhinagar (20/06/2017); Samuhik Arogya Kendra, Gam Dhansura, Dist. Arvalli (28/06/2017); Utkarsh Foundation, Govardhan Flats Meghaninagar, Ahmedabad (02/07/2017); Reliance

Township Moti Khavdi, Jamnagar (05/07/2017,2 8/12/2017); P.K. Kothavala Arts College, Rajmahal Road, Patan (11/07/2017); Parin Furniture, Gondal Road, Rajkot (15/07/017); Info Analytical Pvt. Ltd., S.G. Highway, Ahmedabad (21/07/2017); Gam Jadar, Ta.Idar, Dist Arvalli, (23/07/2017), H.K. Arts College, Ashram Road, Ahmedabad (11/08/2017), IIM, Ahmedabad (18/08/2017); Modasa Arts Commerce College, Dist, Arvalli (06/09/2017); Daliya Institute, Gam Kanera, Dist Kheda (13/09/2017); Swaminarayan Mandir, Viratnagar, Ahmedabad (14/10/2017); Gokul Education, Siddhpur, Dist. Patan (18/10/2017); Sardar Patel Sewa Samaj, Ellisbridge Bridge, Ahmedabad (31/10/2017); Bansari Party Plot, Jodhpur Revar, Morbi (03/11/2017); Kosal Energy Pvt. Ltd., Bavla, Dist. Ahmedabad (10/11/2017); Kalphai House, Nr.Karnavati Club, S.G. Highway, Ahmedabad



(10/11/2017); Sardar Farm, Yogi Chowk, Surat (12/11/2017); Narota House, Vatva GIDC, Vatva, Ahmedabad (05/12/2017); Gala Villa Aqua,Gokul Dham, Shantipura, Dist. Ahmedabad (17/12/2017); Nirma University, S.G.Highway, Ahmedabad (20/11/2017, 21/11/2017); St.Xaviers College, Navaranpura, Ahmedabad (25/11/2017); Nirma House Incometax, Ashram Road, Ahmedabad (08/12/2017); Neptune House, Navrangpura, Ahmedabad (17/12/2017); Gam Chalda, Dist. Surendranagar (19/12/2017, 20/12/2017); Shree Party Plot, Guma Road, Ahmedabad (24/12/2017), Jalaram Satsang Mandal, Mukhini Vadi, Isanpur, Ahmedabad (24/12/2017); Kankaria Karnival Gate-1, Ahmedabad (25/12/2017, 25/12/2017); Shreeji Bag Party Plot, Randheja, Gandhinagar (31/12/2018); The Gyme, Surdhara Circle, Thaltej, Ahmedabad (06/01/2018); Saidham Sola Mandir, S.G Highway, Ahmedabad (07/01/2018); S.T. Depo

Dehgam, (21/01/2018); Gor no Kuvo, Maninagar East, Ahmedabad (22/01/2018); L.M.Pharmacy College Navrangpura, Ahmedabad (23/01/2018); Troikka Pharmacutical Ltd, Bodakdev Ahmedabad, (25/01/2018); Sindhi Social Circle Bunglow Area, Ahmedabad (26/01/2018);N.V.Patel College Naroda Gam Ahmedabad (26/01/2018); Radhe Comlplex, Sankheshvar (27/01/2018); K.B. Patel Institute, Kadi Campus, Gandhinagar (01/02/2018); Nikanth Mahadev Hall, Gam Rupal, Dist. Gandhinagar (02/02/2018); Kathvada Prathmik Shala, Kathvada, Ta Daskoi (04/02/2018); Punitnagar Party Plot, Ghodasar, Ahmedabad (08/02/2018); Kripal Ashram, Nr. Bhadvat Nagar, Maninagar, Ahmedabad (11/02/2018); Swaminarayn Temple Nikol, Ahmedabad (23/02/2018); Khandal Vipra Samaj, Kankaria, Ahmedabad (25/02/2018); Prahladsinh Hall, Amraivadi, Ahmedabad (25/02/2018); Govt. Polytechicnic, Ambavadi, Ahmedabad (27/02/2018)





P. Functioning of Committees

Internal Management Committee		
Dr. Shashank Pandya	Chairman, Incharge Director	
Mr. Narendrasinh Chavda	Member, Hospital Administrator	
Dr. Bhavna Shah	Member, Professor & Head Anaesthesiology	
Dr. Priti Trivedi	Member, Associate Professor of Pathology	
Dr. Priti Sanghvi	Member, Professor, Palliative Medicine	

Purchase Committee		
Mr. Prashant Kinarivala	Chairman	
Dr. Shashank Pandya	Member Secretary, Incharge Director	
Mr. Kshitish Madanmohan	Member	
Mr. Divyesh Radia	Special Invitee	
Mr. Kaushik D. Patel	Special Invitee	
Mr. Narendrasinh Chavda	Special Invitee	

	GCRI Website Committee
Dr. Shashank Pandya	Chairman, Incharge Director
Mr. Raju Parikh	Member Secretary, Head IT Section
Ms. Meena Bhatia	Coordinator, Officer on Special Duty, Administration
Mr. Narendrasinh Chavda	Member, Hospital Administrator
Dr. Dhruti Desai	Member, RMO
Dr. Pariseema Dave	Member, Professor, Gynaecological Oncology
Dr. Hemangini Vora	Member, Associate Professor, Cancer Biology
Dr. Pooja Nandvani Patel	Member, Associate Professor, Radiotherapy
Dr. Foram Patel	Member, Assistant Professor, Microbiology
Mr. Ratnakar Shrotriya	Member, Medical Record Keeper, IT Section
Mr. Rushi Patel	Member, Chief Photo & Publicity Section
Mr. Jagdish Gohel	Member, Assistant Librarian, Library Section





	Library Committee
Dr. Shashank Pandya	Chairman, Incharge Director
Dr. Asha Anand	Professor In-charge, Professor & Head, Medical Oncology
Ms. Nuri Kalita	Member Secretary, Librarian
Mr. Narendrasinh Chavda	Member, Hospital Administrator
Dr. Bhavna Shah	Member, Professor & Head, Anaesthesiology
Dr. Shilpa Patel	Member, Professor & Head, Gynaecological Oncology
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology
Dr. Hitesh Rajpura	Member, Professor & Head, Radiodiagnosis
Dr. U. Suryanarayan	Member, Prof. & Head of Radiotherapy
Dr. Prabhabhai Patel	Member, Professor & Head, Cancer Biology
Dr. Dhruti Desai	Member, RMO
Dr. Trupti Trivedi	Member, Senior Scientific Officer, Cancer Biology

	GCS Research Journal Committee
Dr. Shashank Pandya	Chairman, Incharge Director
Dr. Asha Anand	Editor, Professor & Head, Medical Oncology
Dr. Pariseema Dave	Editor, Professor, Gynaecological Oncology
Dr. Nandita Ghosh	Editor, Assistant Professor, Cancer Biology
Dr. Prabhabhai Patel	Associate Editor, Professor & Head, Cancer Biology
Dr. Nayan Jain	Associate Editor, Dean, Life Sciences, Gujarat University
Dr. U. Suryanarayan	Member, Professor & Head, Radiotherapy
Dr. Shilpa Patel	Member, Professor & Head, Gynaecological Oncology
Dr. Bhavna Shah	Member, Professor & Head , Anaesthesiology
Dr. Hitesh Rajpura	Member, Professor & Head, Radiodiagnosis
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology
Dr. Hemangini Vora	Member, Associate Professor, Cancer Biology
Dr. Harsha Panchal	Member, Professor of Medical Oncology

Govt. Scheme Implementation Committee	
Dr. Shashank Pandya	Chairman, Incharge Director
Dr. Janmesh Shah	Member Secretary, Assistant Professor, Community Oncology
Mr. Narendrasinh Chavda	Member, Hospital Administrator
Dr. Dipak Rathod	Member, RMO Class - I
Dr. Dhruti Desai	Member, RMO
Ms. Shivani Rajput	Member, Financial Assistant, Account Section
Mr. Himanshu Patel	Member, Medical Record Officer



ICS Cancer Cure Fund	
Dr. Shashank Pandya	Chairman, Incharge Director
Mr. Bhadresh Shah	Member Secretary, Accounts Officer
Mr. Narendrasinh Chavda	Member, Hospital Administrator
Dr. Apurva Patel	Member, Professor, Medical Oncology
Dr. Dhruti Desai	Member, RMO
Dr. Janmesh Shah	Member, Assistant Professor, Community Oncology
Mr. Himanshu Patel	Member, Medical Record Officer

Patient Care Evaluation Committee	
Dr. Shashank Pandya	Chairman, Incharge Director
Dr. Dhruti Desai	Member Secretary, RMO
Mr. Divyesh Radia	Member
Ms. Mona Darji	Member, Matron Grade - I
Ms. Manisha Katara	Member, Matron Grade - II

Fire Safety Committee	
Dr. Shashank Pandya	Chairman, Incharge Director
Mr. Divyaraj Jadeja	Member Secretary, Electrical Engineer(Maintenance), Engineering Section
Dr. Dipak Rathod	Member, RMO Class - I
Dr. Dhruti Desai	Member, RMO
Dr. Jayendra Patel	Member, Senior Scientific Officer, Cancer Biology
Mr. Jayapal Nair	Member, PS to Director
Mr. Mahesh Ahir	Member, Civil Engineer, Engineering Section
Mr. Sanjay Patel	Member, Electrical Engineer, Engineering Section
Mr. Arpit B. Christian	Member, Assistant Staff Brother, Nursing Section

	Disaster Management Committee
Dr. Shashank Pandya	Chairman, Incharge Director
Ms. Mona Darji	Member Secretary, Matron Grade - I
Dr. Dipak Rathod	Member, RMO Class - I
Mr. Narendrasinh Chavda	Member, Hospital Administrator
Mr. Mahesh Ahir	Member, Civil Engineer, Engineering Section
Dr. Bhavna Shah	Member, Professor & Head, Anaesthesiology
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology
Mr. Sanjay Patel	Member, Electrical Engineer, Engineering Section
Mr. Om Prakash	Member, Nuclear Health Physicist, Nuclear Medicine
Mr. Divyaraj Jadeja	Member, Electrical Engineer (Maintenance), Engineering Section
Mr. Jayapal Nair	Member, PS to Director



	Women's Development Cell
Dr. Meeta Mankad	Chairperson, Professor, Gynaec Oncology
Ms. Meena Bhatia	Member Secretary, Officer on Special Duty, HR Section
Dr. Foram Patel	Joint Secretary, Assistant Professor, Microbiology
Dr. Pooja Nandwani Patel	Member, Associate Professor, Radiotherapy
Dr. Kinna Shah	Member, Assistant Professor, Anesthesiology
Dr. Rima Kusumgar	Member, Assistant Professor, Blood Bank
Dr. Franky Shah	Member, Senior Scientific Officer, Cancer Biology
Ms. Mona Darji	Member, Matron Grade - I
Ms. Shivani Rajput	Member, Financial Assistant, Account Department
Ms. Ketki Kathiyara	Member, Biochemist, Blood Bank

SC / ST Cell	
Mr. Narendrasinh Chavda	Chairman, Hospital Administrator
Ms. Mona Darji	Member Secretary, Matron Grade - I
Dr. Dhruti Desai	Member, RMO
Dr. Rekha Solanki	Member, Assistant Professor, Anesthesiology
Ms. Manisha Katara	Member, Matron Grade - II
Mr. Vijaykumar S. Ninama	Member, Biochemist, Blood Bank

	Internal Complaints Committee
Dr. Pariseema Dave	Chairperson, Professor, Gynaec Oncology
Dr. Hemangini Vora	Co-chairperson, Associate Professor, Cancer Biology
Ms. Meena Bhatia	Member Secretary, Officer on Special Duty, HR Section
Dr. Geeta Joshi	C.E.O., COC Vasna
Mr. Narendrasinh Chavda	Member (Legal), Hospital Administrator
Dr. Himanshu Soni	Member, Associate Professor, Radiology
Ms. Mona Darji	Member, Matron Grade - I
Ms. Pratima Desai	Member, NGO, Social Worker (External)

Information Technology Committee	
Dr. Shashank Pandya	Chairman, Incharge Director
Mr. Narendrasinh Chavda	Member Secretary, Hospital Administrator
Mr. Raju Parikh	Assistant Member Secretary, Head IT Section
Mr. Haren Shah	Hon. External IT Advisor (Invitee)
Ms. Shivani Rajput	Member, Financial Assistant, Account Section
Mr. Jayapal Nair	Member, PS to Director
Mr. Ratnakar Shrotriya	Member, Medical Record Keeper, IT Section



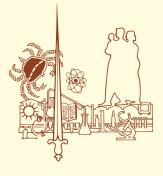
Hospital Infection Control Committee		
Dr. Shashank Pandya	Chairman, Incharge Director	
Dr. Parijath Goswami	Member Secretary, Professor & Head, Microbiology	
Dr. Bhavna Shah	Member, Professor & Head, Anaesthesiology	
Dr. Apurva Patel	Member, Professor, Medical Oncology	
Dr. Shilpa Patel	Member, Professor & Head, Gynaecological Oncology	
Dr. Jayshree Thakker	Member, Associate Professor, Anaesthesiology	

Committee to Review - Out Source Services	
Mr. Narendrasinh Chavda	Chairman, Hospital Administrator
Mr. Hitesh Bihola	Member Secretary, HR Officer, HR Section
Dr. Dhruti Desai	Member, RMO
Ms. Mona Darji	Member, Matron Grade - I
Ms. Meena Bhatia	Member, Officer on Special Duty, Administration
Ms. Shivani Rajput	Member, Financial Assistant, Account Section
Dr. Sanskar Dave	Member, Assistant Hospital Administrator, Legal Section

Institutional Review Committee Dissertation/Thesis/Publication/Conference Presentation			
Dr. Shashank Pandya	Chairman, Incharge Director		
Dr. Harsha Panchal	Member Secretary, (Clinical-Dissertation & Thesis), Medical Oncology		
Dr. Nandita Ghosh	Member Secretary, (Research-Dissertation & Thesis), Cancer Biology		
Dr. Trupti Trivedi	Member Secretary, (Publications & Presentation), Cancer Biology		
Mr. Narendrasinh Chavda	Member (Legal), Hospital Administrator		
Mr. Kshitish Madanmohan	Member (NGO representative, Social Worker), Secretary GCS		
Dr. Amar Vyas	Member, Department of PSM, BJMC		
Dr. Bhavna Shah	Member, Professor & Head Anesthesiology		
Dr. Hemant Shukla	Member, Professor, Surgical Oncology		
Dr. U. Suryanarayan	Member, Professor & Head, Radiotherapy		
Dr. Pariseema Dave	Member, Professor, Gynaecological Oncology		
Dr. Prabhabhai Patel	Member, Professor & Head, Cancer Biology		
Dr. Priti Sanghvi	Member, Professor, Palliative Medicine		
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology		
Dr. Hemangini Vora	Member, Associate Professor, Cancer Biology		
Dr. Himanshu Soni	Member, Associate Professor, Radiodiagnosis		
Dr. Trupti Patel	Member, Assistant Professor, Pathology		
Dr. Foram Patel	Member, Assistant Professor, Microbiology		
Dr. Franky Shah	Member, Senior Scientific Officer, Cancer Biology		



Scientific Research Committee				
Dr. Shashank Pandya	Chairman, Incharge Director			
Dr. Asha Anand	Member Secretary, Professor & Head, Medical Oncology			
Dr. Hemangini Vora	Assistant Member Secretary, Associate Professor, Cancer Biology			
Dr. Sonia Parikh	Assistant Member Secretary, Associate Professor, Medical Oncology			
Dr. Devendra Patel	Member, Former Director, Professor Emeritus			
Dr. Pankaj Shah	Member, Vice President, GCS			
Dr. Kirti Patel	External Member, Dean, GCS Medical College			
Dr. Shilin Shukla	Member, Former Director, Professor Emeritus			
Dr. Geeta Joshi	Member, C.E.O., COC Vasna			
Mr. Narendrasinh Chavda	Member, Hospital Administrator			
Dr. Sunil Trivedi	External Member, Professor, Senior Scientific and Academic Coordinator, Ahmedabad			
Dr. Rakesh Rawal	External Member, Professor, Life Science, Gujarat University, Ahmedabad			
Dr. Sandip Shah	Member, P.T. Associate Professor & Incharge of BMT			
Dr. Shilpa Patel	Member, Professor & Head, Gynaec Oncology			
Dr. U. Suryanarayan	Member, Professor & Head, Radiotherapy			
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology			
Dr. Parijath Goswami	Member, Professor & Head, Microbiology			
Dr. Hitesh Rajpura	Member, Professor & Head, Radiodiagnosis			
Dr. Prabhabhai Patel	Member, Professor & Head, Cancer Biology			
Dr. Priti Trivedi	Member, Associate Professor, Pathology			
Dr. Saumil Desai	Member, Associate Professor, Radiology			
Dr. Ava Desai	Member, Professor, Gynaec Oncology			
Dr. Bhavna Shah	Member, Professor, Anaesthesiology			
Dr. Foram Patel	Member, Assistant Professor, Microbiology			
Dr. Nandita Ghosh	Member, Assistant Professor, Cancer Biology			
Dr. Trupti Trivedi	Member, Senior Scientific Officer, Cancer Biology			
Dr. Jayendra Patel	Member, Senior Scientific Officer, Cancer Biology			
Dr. Franky Shah	Member, Senior Scientific Officer, Cancer Biology			
Dr. Pina Trivedi	Member, Senior Scientific Officer, Cancer Biology			





Ethics Committee				
Hon'ble Justice Shri Bankim N. Mehta (Rtd.)	Chairman			
Mr. Narayanbhai R. Patel	Vice Chairman			
Dr. Shilin N. Shukla	Member Secretary			
Dr. Prabhabhai Patel	Assistant Member Secretary			
Dr. Pariseema Dave	Assistant Member Secretary			
Shri Kshitish Madanmohan	Member			
Dr. R. K. Dikshit	Member			
Dr. Amar Vyas	Member			
Dr. Sonia Parikh	Member			
Dr. Franky Shah	Member			
Dr. Vishal Mishra	Member			
Dr. Suresh R. Shah	Member			
Mrs. Ila U. Vora	Member			
Mr. Jayeshkumar Solanki	Member			
Ms. Nuri Kalita	Member			

Serious Adverse Event Committee (SAE) (A sub-committee of GCRI/GCS Ethics Committee)			
Dr. Shashank Pandya	Chairman, Incharge Director		
Dr. Pooja Nandvani Patel	Member Secretary, Radiotherapist		
Dr. Asha Anand	Member, Medical Oncologist		
Dr. Harsha Panchal	Member, Medical Oncologist		
Dr. Sonia Parikh	Member, Medical Oncologist		
Dr. Pariseema Dave	Member, Professor, Gyanec Oncologist		

Ethics Committee For Compensation (A sub-committee of GCRI/ GCS Ethics Committee)		
Mr. Narayanbhai R. Patel	Chairman, Senior Advocate	
Dr. Pariseema Dave	Member Secretary, Professor, Gyanecological Oncology	
Mr. Kshitish Madanmohan	Member	



Institutional Committee for Stem Cell Research (IC-SCR)				
Dr. Kirti M. Patel	Chairman, Dean, GCSMC			
Dr. Apruva Patel	Member Secretary , Professor, Medical Oncology			
Dr. Franky Shah	Assistant Member Secretary, Senior Scientific Officer, Cancer Biology			
Dr. Sandip Shah	Member			
Dr. Maitrey Gajjar	Member			
Dr. Haresh Doshi	External Member			
Dr. Rakesh Rawal	External Member			
Mr. Kshitish Madanmohan	Member			
Dr. Amar Vyas	Member			
Ms. Ilaben Vora	Member			

Annual Report Preparation Committee			
Dr. Shashank Pandya	Incharge Director, GCRI		
Dr. Hemangini Vora	Associate Professor, Cancer Biology		
Dr. Trupti Trivedi	Senior Scientific Officer, Cancer Biology		
Mr. Rushi Patel	Chief Photo & Publicity Section		
Mr. Mahendrasinh Kumpavat	Stenographer, Secretariat Section		

NABL Accreditation Committee			
Dr. Shashank Pandya Chairman, Incharge Director			
Dr. Dhaval Jetly	Member Secretary, Associate Professor & Head, Pathology		
Dr. Biren Parikh	Coordinator, Assistant Professor, Pathology		
Dr. Parijath Goswami Member, Professor & Head, Microbiology			
Dr. Priti Trivedi	Member, Associate Professor, Pathology		
Dr. Hemangini Vora	Member, Associate Professor, Cancer Biology		
Dr. Nandita Ghosh	Member, Assistant Professor, Cancer Biology		
Dr. Rima Kusumgar	Member, Assistant Professor		
Mr. Mahesh Ahir	Member, Civil Engineer		
Mr. Sanjay Patel	Member, Electrical Engineer		





NABH Accreditation Committee				
Dr. Shashank Pandya	Chairman, Incharge Director			
Mr. Narendrasinh Chavda	Co-chairman, Hospital Administrator			
Dr. Parijath Goswami	Co-ordinator, Professor & Head, Microbiology			
Dr. Shilpa Patel	Member, Professor & Head, Gynaecological Oncology			
Dr. Harsha Panchal	Member, Professor of Medical Oncology			
Dr. U. Suryanarayan	Member, Professor & Head, Radiotherapy			
Dr. Hitesh Rajpura	Member, Professor & Head, Radiodiagnosis			
Dr. Prabhabhai Patel	Member, Professor & Head, Cancer Biology			
Dr. Priti Sanghvi	Member, Professor of Palliative Medicine			
Dr. Vikas Warikoo	Member, Associate Professor, Surgical Oncology			
Dr. Dhaval Jetly	Member, Associate Professor & Head, Pathology			
Dr. Jayshree Thakkar	Member, Associate Professor, Anaesthesiology			
Dr. Rasna Tiwari	Member, Associate Professor, Nuclear Medicine			
Dr. Pooja Nandvani Patel	Member, Associate Professor, Radiotherapy			
Dr. Dhruti Desai	Member, R.M.O			
Dr. Rima Kusumgar	Member, Assistant Professor, Blood Bank			
Dr. Janmesh Shah	Member, Assistant Professor, Community Oncology			
Dr. Satish Pelagade	Member, Radio Physicist			
Dr. Sanskar Dave	Member, Assistant Hospital Administrator			
Dr. Manali Shah	Member, Sr. Lecturer in Physiotherapy			
Ms. Meena Bhatia	Member, O.S.D., HR Section			
Mr. Raju Parikh	Member, Head IT			
Mr. Samip Dave	Member, Chartered Accountant, Account Section			
Ms. Princy Christian	Member, Bio Medical Engineer (Electronic Engineer)			
Ms. Mona Darj	Member, Matron Grade - I			
Mr. Dipan Soni	Member, Assistant Medical Sculpture, Prosthesis Section			
Mr. Arpit Christian	Member, Infection Control Nurse			
Ms. Nuri Kalita	Member, Librarian			
Mr. Arvind Kotadia	Member, Chief Pharmacist cum Store Officer			

Hospital Waste Management Committee				
Dr. Shashank Pandya Chairman, Incharge Director				
Dr. Parijath Goswami	Member Secretary			
Dr. Foram Patel	Assistant Member Secretary			
Ms. Mona Darji	Member			
Ms. Leena Bhatt	Member			
Ms. Veena Patel	Member			
Mr. Akshay Dave	Member			



Q. Research Activities

Q1. Conference Presentation - International April 2017-March 2018

Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
		Pathology		
1	Dr. Jyoti Sawhney	Use of CD157 in high sensitive detection of paroxysmal nocturnal hemoglobinuria (Poster)	79 th Annual Meeting of Japanese Society of Haematology - JSH 2017	20-22 Oct 2017, Tokyo, Japan
		Radiotherapy		
2	Dr. Pooja Nandwani Patel	Results of patients of locally advanced nasopharyngeal carcinoma treated with neoadjuvant chemotherapy or upfront concurrent chemoradiotherapy: A regional cancer centre experience (Poster)	European Society for Medical Oncology-ESMO ASIA 2017	17-19 Nov 2017, Singapore

Conference Presentation - National April 2017 - March 2018

Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place	
	Clinical Carcinogenesis Lab				
1	Dr. Trupti Trivedi	Identification of site-specific potential biomarkers in patients with oral squamous cell carcinoma (Oral)	7 th International Conference on Translational Cancer Research	8-11 Feb 2018, Chennai	
2	Dr. Sapna Singh	Expression of miR-31, miR-26 and miR-21 in HPV infected head and neck cancer tissue samples (Oral)			
		Microbiology La	b		
3	Dr. Nilima Desai	Expression of FOXA1 and GATA-3 in breast cancer: A preliminary study (Poster)	International Symposium on Immunohistochemistry	4-7 Jan 2018, Tata Medical Center, Kolkata	
		Community Oncology Cer	nter, Vasna		
4	Dr. Geeta Joshi	Morphine availability- Indian perspective (Speaker)	33 rd Annual national Conference of Indian Society for Study of Pain-ISSPCON 2018	3 Feb 2018, New Delhi	
5		Recent advances in management of Nausea-vomiting (Speaker)	25 th Indian Association for Palliative Care-IAPCON-2018	25 Feb 2018, New Delhi	



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
	I	Gynaecological Onco	ology	
6	Dr. Pabashi Poddar	Prognostic factors and survival in patients with carcinoma vulva treated with primary surgery (Poster)	Association of Gynecologic Oncologist of India-AGOICON 2017	27-29 Oct 2017, TMH Mumbai
7	Dr. Ava Desai	Fertility preserving surgery in gynecologic oncology (Guest Lecture)	PROGRESS 2017	28-30 July 2017, Chennai
		Medical Oncolog	IY	
8	Dr. Pushpak Chirmade	Incidence, clinical outcomes and prognostic significance of FLT3 mutations in de novo non-APL AML-a study from Western India (Oral)	2 nd Indian Cancer Congress	8-12 Nov 2017, Bangalore
9	Dr. Rahul Kulkarni	Clinical and epidemiological profile of endocrine tumors-an experience from regional cancer center from Western India	Asia Pacific Neuroendocrine Society	27-29 Oct 2017, Mumbai
		Molecular Oncology	Lab	
10	Dr. Prabhabhai Patel	Targeting aberrant glycosylation with nutraceuticals : A Promising approach to combat (Invited Speaker)	2 nd International Conference on Nutraceuticals and Chronic Diseases	1-3 Sep 2017, Goa
11	Dr. Prabhabhai Patel	Molecular basis of oral cancer: focusing in Invasion and metastasis (Invited Speaker)	7 th International Conference on Translation Cancer Research	8-11 Feb 2018, Chennai
12	Dr. Kinjal D. Patel	Influence of susceptibility variants on progression of breast cancer (Poster)		
13	Ms. Bhoomi Tarapara	Molecular mechanisms of Imatinib resistance in CML patients (Poster)		
14	Ms. Riddhi Gokani	Significance of HPV infection and VEGF expression in cervical cancer (Poster)		
15	Ms. Kruti Mehta	Significance of altered glycosylation in oral cancer progression (Poster)		
		Palliative Medicir	ne	
16	Dr. Shrenik Ostwal	Megestrol acetate versus dexamethasone for appetite improvement in cancer anorexia- cachexia: A prospective randomized controlled pilot trial (Oral)	25 th International Conference of Indian Association of Palliative care-IAPCON 2018	23-25 Feb 2018, AIIMS, Delhi



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
		Radiotherapy		
17	Dr. Pooja Nandwani Patel	Breast Cancer Session (Speaker)	Best of ASTRO 2017	13-14 May 2017, Vizag
18		Adaptive radiotherapy in gynecological cancers (Speaker)	Indo UK Oncology Summit	15-16 Dec 2017, Chennai
19		Management of nodal recurrence- Infield and outfield in pelvic cancers (Panelist)	Young Radiation Oncologists of India- YROC-2018	12-14 Jan 2018, New Delhi
20		Prostate cancer, treatment approach (Panelist)	'CME' on prostate cancer	Jaipur, 2018
21	Dr. Maitrik Mehta	Prostate cancer, treatment approach (Panelist)		
		Surgical Oncolog	IY	
22	Dr. Abhijeet Salunke	Giant cell tumor around knee joint	62 nd Annual Conference of Indian Orthopedic Association	26-31 Dec 2017,
23		Intercalary excision in femoral diaphyseal tumors	IOACON 2017	Indore
24		Approach to benign bone tumors		
25		Radiology in bone tumors	P. G. Instructional Course	27 -30 Jan 2017, Indore
26	Dr. Jaymin Shah	Recent advances in orthopedic oncosurgery	Late Dr Neeraj Sharma Oration lecture	18 Feb 2018, SIAMS Indore
27		Approach to bone tumors & biopsy principles	SIAMS Indore	
28		Approach to benign bone tumors	62 nd Annual Conference of Indian Orthopedic Association IOACON 2017	26-31 Dec 2017, Indore
29		Pelvic bone tumors rotationplasty	SIAMS Indore	18 Feb 2018, SIAMS Indore
		Tumor Biology La	ıb	
30	Dr. Kinjal Gajjar	Deciphering the potential value of 5-FU metabolic enzymes in predicting prognosis and treatment response of colorectal cancer patients (Poster)	7 th International Conference on Translational Cancer Research	8-11 Feb, 2018, Chennai



Conference Presentation - State April 2017 - March 2018

Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
		Anaesthesiology	1	
1	Dr. Chirag Rathwa	Management of neostigmine induced ventricular fibrillation- case report (Poster)	69 th Annual Conference of IMA Gujarat State Branch- GIMACON	18-19 Nov 2017, Gandhinagar
2		A comparative study between intracuff air and intracuff alkalinizedlignocaine for decreasing post-intubation sore throat and emergence phenomena (Oral)		
		Clinical Carcinogenes	is Lab	
3	Dr. Sapna Singh	Expression and localization patterns of Sirtuins: neoplastic role in cancer cervix (Oral)	National Conference on New Horizons in Cancer Biology	16-17 March 2018, Ahmedabad
4	Ms. Vinal Upadhyay	Manual curation of markers from the published microarray datasets to establish a gene group for glioblastoma diagnosis via liquid biopsy (Poster)		
5	Ms. Nirali Shukla	Delineation of molecular targets for paediatric brain tumors (Poster)	National Conference on New Horizons in Cancer Biology	16-17 March 2018,
6	Ms. Yesha Desai	Protein expression of Abcg2 and Nanog in oral squamous cell carcinoma (Poster)		Ahmedabad
		Cytogenetic Lab	,	
7	Dr. Dharmesh Patel	Significance of chromosomal abnormalities in acute lymphocytic leukemia: A GCRI experience (Oral)	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA, Ahmedabad
8	Ms. Darshita Patel	Heterogeneity of mixed lineage leukemia in acute leukemia patients (Oral)		
9	Ms. Mahnaz Kazi	Promoter methylation of Wnt pathway antagonists- sFRP1 and DKK3 are associated with unfavorable prognosis in breast cancer (Poster)		
10	Ms. Priya Varma	Chronic myelomonocytic leukemia with dup(1), t(12;15) involving ETV6/RNU6-19p identified by cytogenetic & molecular cytogenetic technique: A novel favorable-risk translocation (Poster)		



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
11	Ms. Dhara Bhimani	Assessment of Her-2 neu status by fluorescence in situ hybridization in breast cancer (Poster)	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA, Ahmedabad
12	Ms. Nehal Patel	Identification of novel translocation (3;6) (q26:21) in AML-ETO negative AML-M2 pediatric patient by molecular cytogenetic techniques (Poster)		
		Gynaecological Once	ology	
13	Dr. Shilpa Patel	Current concept on epithelial ovarian cancer (Panelist)	CME by Zydus Onco Sciences	16 Sep 2017, Ahmedabad
14	Dr. Meeta Mankad	Stromal tumors of the ovaries an enigma often missed (Guest Lecture)	State Organization of Societies of Obstetricians and Gynecologists of Gujarat	5-7 Jan 2018, Ahmedabad
15	Dr. Ava Desai	HPV is evil: fiction or reality (Guest Lecture)		
16		Journey with ovarian cancer (Guest Lecture)	CME on Ovarian cancer	Feb 2018, Ahmedabad
17		Lessons from ovarian lesions (Oration)	Rajkot Obstructive & Gynecological Society	28 Jan 2018, Rajkot
18	Dr. Garima Pandey	Vulvo vaginal melanoma-A rare and aggressive tumor (Poster)	Urogynaec-2017	7-10 Dec 2017, Ahmedabad
		Immunohematology	Lab	
19	Dr. Kruti Rajvik	Evaluation of effect of turmeric in lung cancer patients (Oral)	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA, Ahmedabad
20	Dr. Birva Raiya	Role of immunophenotyping in prediction of BCR/ABL gene rearrangement in B acute lymphoblastic leukemia (Poster)		
21	Dr. Nupur Patel	Identification of basal markers in triple negative breast cancer phenotype (Poster)		
		Medical Oncolog	y	
22	Dr. Varun Nagori	A retrospective study of clinical profile and long term outcome to Imatinib mesylate alone in childhood chronic myeloid leukemia in chronic phase	3 rd Medical Oncology Society Conference, MOSCON - 2017	23-24 Sep 2017, Sadvichar Parivar, Ahmedabad
23		Stomach metastasis from carcinoma breast mimicking as primary gastric cancer: a rare presentation	National Conference on New Horizons in Cancer Biology	16-17 March 2018, Ahmedabad



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
24	Dr. Akash Patel	To study the clinical profile of patients with acute promyelocytic leukemia with reference to induction outcomes	3 rd Medical Oncology Society Conference, MOSCON - 2017	23-24 Sep 2017, Sadvichar Parivar,
25	Dr. Gaurav Mantri	Primary granulocytic sarcoma: A case report and review of literature		Ahmedabad
26	Dr. Shushant Ikhar	Clinical profile of multiple myeloma patients at GCRI		
27	Dr. Akshay Shivchand	Primary diffuse large B-cell lymphoma of the breast: A rare case and review of literature		
28	Dr. Reshma Pundarik	Outcomes of high dose chemotherapy and stem cell transplant in relapsed and refractory non- Hodgkins lymphoma: A retrospective analysis		
29	Dr. Honey Parekh	study of clinical profile of non- Hodgkin's lymphoma in pediatric cancer patients		
30	Dr. VijayKumar Bhargav	Role of Dasatinib in the patients with loss of milestones on Imatinib: A single center study		
31	Dr. Ekta Vala	Granulocytic sarcoma–rare presentations of acute myeloid leukemia: Case reports		
32	Dr. Salil Patkar	To study effect of Gefitinib in patients with advanced adenocarcinoma of lung	69 th Annual Conference of IMA Gujarat State Branch	18-19 Nov 2017, Gandhinagar
33	Dr. Alok Rajan	Analysis of malignancies in HIV positive patients - GCRI experience		
34	Dr. Manan Vaghela	Rare case report of pure red cell aplasia and associated thymoma	Joint International Conference- 2018	6 Jan 2018, Ahmedabad
		Molecular Oncology	Lab	
35	Dr. Prabhabhai Patel	Molecular basis of oral cancer involving various facets (Invited Speaker)	4 th Nirma Institute of Pharmacy International Conference - NIPICON - 2018	23-25 Jan 2018, Ahmedabad
36	Dr. Kinjal A. Patel	Alterations in p53 and its significance in oral cancer progression (Oral)	National Conference on New Horizon in Cancer Biology	16-17 March 2018, AMA, Ahmadabad
37	Dr. Kinjal D. Patel	Influence of susceptibility variants on progression of breast cancer (Oral)		



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
38	Ms. Bhoomi Tarapara	Molecular mechanisms of Imatinib resistance in CML patients (Poster)	National Conference on New Horizon in Cancer Biology	16-17 March 2018, AMA,
39	Ms. Riddhi Gokani	Significance of HPV infection and VEGF expression in cervical cancer (Poster)		Ahmadabad
40	Ms. Kruti Mehta	Clinical significance of altered glycosylation in oral cancer progression (Poster)		
		Pathology		
41	Dr. Jyoti Sawhney	Role and relevance of the euroflow antibody panel immunophenotyping of chronic lymphoproliferative disorder (Invited Speaker)	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA, Ahmedabad
42	Dr. Brajesh Goyal	Importance of immunophenotyping in ALL- A GCRI Study (Oral)	41 st Gujarat Association of Pathologist and Microbiologist	15-17 Dec 2017, Rajkot
43	Dr. Mauli Joshi	Acute myeloid leukemia: Correlation of Immunophenotyping markers with morphology and cytogenetics (Oral)		
44	Dr. Hetal Patel	Correlation of frozen section reporting and final histopathology reporting in ovarian neoplasm: A tertiary oncology center experience (Oral)		
		Radiology		
45	Dr. Jitendra Rathava	Role of MRCP in pancreatico billiary pathology	Indian Radiological and Imagine Association-IRIA, CME	2 July 2017, Ahmedabad
46	Dr. Vibhal Parmar	Role of conventional X-ray in ostiolytic skull lesions		
47	Dr. Kushal Makwana	CT spectrum of pancreatic lesion		
48	Dr. Vipul Bhatia	Role of conventional imaging in posterior mediastinal mass		
		Radiotherapy		
49	Dr. Pooja Nandwani Patel	Management of early breast cancer (Panelist)	2 nd Gujarat Breast Meet	10-11 March 2018,
50		Management of toxicities of head and neck malignancies (Moderator)		Ahmedabad
51		Updates on breast cancer (Panelist)	CME Update	3 Sep 2017, Ahmedabad



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
52	Dr. Pooja Nandwani Patel	"Role of stereotactic body radiotherapy (SBRT) in spinal	CME in Update in Neuro- oncology	4 June 2017, Ahmedabad
	ralei	tumors (Speaker)	oncology	
53		Role of neoadjuvant and adjuvant treatment in locally		14-16 April 2017,
		advanced gastric cancer (Panelist)		Ahmedabad
54	Dr. Maitrik Mehta	Role of SRS vs WBRT+SRS in brain metastasis (Guest Speaker)	2 nd Gujarat Breast Meet	10-11 March 2018, Ahmedabad
		Stem Cell Biology	Lab	- Innoudoud
55	Dr. Franky Shah	Clinical significance vitamin D	National Conference on New	16-17 March
		signalling pathway in breast cancer (Invited Speaker)	Horizons in Cancer Biology	2018, AMA, Ahmedabad
56	Dr. Apexa Raval	Association of growth factor and receptors and RTK signaling in breast cancer (Poster)		
57	Dr. Urja Desai	Drug resistance and metabolism of Ara-C in acute myeloid leukemia: in-silico & in-vitro approach (Oral)		
58	Dr. Jigna Joshi	Potential biomarkers in oral cancer progression and prognosis (Oral)		
59	Mr. Hitarth Patel	The Hedgehog signaling pathway in human cancer (Poster)		
60	Ms. Aditi Patel	An effect of potent carcinogen in progression of oral cancer (Poster)		
61	Ms. Disha Jethva	Expression of multidrug resistance markers in lung cancer (Poster)		
62	Ms. Heena Pandya	miR-126 and miR-335 expression in breast cancer (Poster)		
	t	Surgical Oncolog	IV.	
63	Dr. Abhijeet Salunke	Approach to Bone Tumors	IMSOS Onco Ortho Update	12 Nov 2017
64	Dr Jaymin Shah			
65		Scapulectomy in Orthopedic Oncosurgery	GOACON 2018	9 -11 Feb 2018, Surat
		Tumor Biology La		
63	Dr. Kinjal Gajjar	Clinical impact of DNA repair pathway in colorectal cancer	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA, Ahmedabad
64	Ms. Mittal Mistry	Role of β -catenin in breast cancer		
65	Ms. Devanshi Dalal	Evaluation of GSTP1 protein expression in breast cancer patients		



Sr No	Name of Presenter	Title of Presentation	Name of Conference	Date & Place
66	Ms Chaitra Nair	Role of Her/neu expression in colorectal cancer	National Conference on New Horizons in Cancer Biology	16-17 March 2018, AMA,
67	Ms. Priti Kanik	Clinical relevance of biomarkers involved in RAS-mediated signaling pathway in colorectal cancer		Ahmedabad





Q2. Publications April 2017 - March 2018

	Anaesthesiology
1	Rekha Solanki Dipika Patel, Bipin Patel, Prakash Marwan, Dhaval Chavda, Mohit Rathod: Anaesthesia management in patients with craniovertebral junctional Anomalies. Ind J Anesth and Analgesia, 2017, 4: 1105-1109.
2	Leena Patel, Jayshree Thakkar, Nikul Prajapati, Vijeta Tandel, Abhisek Bhardhwaj, Bipin Patel: Comparison of intubating condition after rocuronium bromide and succinyl choline. Asian Arch Anesthesiol and Resuscitation, 2016, 82: 29.
	Blood Bank
3	Dhara Ardeshana, Rima Kusumgar: Seroprevalence of HIV, HbSAg, HIV in blood donors in tertiary care hospital. Nat J Integrated Res in Medicine, 2018 (Accepted).
	Clinical Carcinogenesis Lab
4	Trupti Trivedi, Toral Kobawala, Nandita Ghosh, Kinjal Gajjar, Jignesh Goswami: Clinical Relevance of SOCS1 and SOCS3 in patients with oral squamous cell carcinoma. American Journal of Cancer Res and Clinical Oncol, 2017, 3: 1-14.
5	Trupti Trivedi, Suresh Prajapati, Toral Kobawala, Nandita Ghosh, Prabhudas Patel: Protein expression of p53 and CD44 in patients with cancer of buccal mucosa. GCSMC J Med Sci, 2017: 6: 50-59.
	Microbiology Lab
6	Parijath Goswami, Shashank Pandya, Shilpa Patel: Human papilloma virus (HPV) and human cancers: Experience from a regional cancer center, Gujarat. GCS Res. J, 2017, 19: 16-22.
	Community Oncology & Medical Records
7	Janmesh Shah, Anand Shah, Himanshu Patel, Vishruti Pandya, Geeta Joshi: Time trends of breast cancer incidence of two periods in Ahmedabad Urban Agglomeration Area. GCS Res J, 2017, 20: 23-24.
	Community Oncology Center, Vasna
8	Geeta Joshi: Editorial: Holistic care in chronic pain. Indian J Pain, 2017, 31: 77-79.
	Cytogenetic Lab
9	Pina Trivedi, Dharmesh. Patel, Manisha Brahmbhatt, Ankita Sugandhi, Hiral Patel, Prabhudas Patel: A Sole t(10;19)(p11.2;p12) in AML-ETO negative AML-M2 paediatric patient: First novel case from India. GCSMC Journal of Medical Science, 2017, 6:1.
10	Pina Trivedi, Dharmesh Patel, Priya Varma, Manisha Brahmbhatt, Prabhudas Patel: Sole translocation (6;9) (p23;q34) in AML-ETO negative AML-M2 patient. Journal of Down Syndrome and Chromosome Abnormalities, 2017, 3: 1000125.
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	Immunohaematology Lab
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	Gynaecological Oncology
15	Ruchi Arora, Shilpa Patel, Pabashi Poddar: A study of cytology and colposcopy in VIA (visual inspection of cervix with 5% acetic acid) positive women. Int J Reprod Contracept Obstet Gynecol, 2018, 7: 571-575.
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	Molecular Oncology Lab
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	Radiodiagnosis
41	Radiodiagnosis
41	Radiodiagnosis Himanshu Soni, Mehul Patelia, Jitendra Rathva: Extraskeletal osteosarcoma arising from kidney: A case report.
41 42	Radiodiagnosis Himanshu Soni, Mehul Patelia, Jitendra Rathva: Extraskeletal osteosarcoma arising from kidney: A case report. GCS Res J, 2017, 19: 37-40.
	Radiodiagnosis Himanshu Soni, Mehul Patelia, Jitendra Rathva: Extraskeletal osteosarcoma arising from kidney: A case report. GCS Res J, 2017, 19: 37-40. Radiotherapy Pooja Nandwani Patel, Sumit Goyal, Anand Shah, Mehul Gohel, U Suryanarayan: Prospective study of sequential volumetric changes of parotid gland in early oropharyngeal carcinoma treated by intensity modulated radiation
42 43	Radiodiagnosis Himanshu Soni, Mehul Patelia, Jitendra Rathva: Extraskeletal osteosarcoma arising from kidney: A case report. GCS Res J, 2017, 19: 37-40. Radiotherapy Pooja Nandwani Patel, Sumit Goyal, Anand Shah, Mehul Gohel, U Suryanarayan: Prospective study of sequential volumetric changes of parotid gland in early oropharyngeal carcinoma treated by intensity modulated radiation therapy: An institutional experience. South Asian J Cancer, 2018, 7: 55-57. Jyoti Poddar, Ashutosh Das Sharma, U. Suryanarayan, Sonal Patel Shah, Ankita Parikh, Vimesh Mehta, Tarun Kumar: Calculation of dose-volume parameters and indices in plan evaluation of HDR interstitial brachytherapy
42 43	Radiodiagnosis Himanshu Soni, Mehul Patelia, Jitendra Rathva: Extraskeletal osteosarcoma arising from kidney: A case report. GCS Res J, 2017, 19: 37-40. Pooja Nandwani Patel, Sumit Goyal, Anand Shah, Mehul Gohel, U Suryanarayan: Prospective study of sequential volumetric changes of parotid gland in early oropharyngeal carcinoma treated by intensity modulated radiation therapy: An institutional experience. South Asian J Cancer, 2018, 7: 55-57. Jyoti Poddar, Ashutosh Das Sharma, U. Suryanarayan, Sonal Patel Shah, Ankita Parikh, Vimesh Mehta, Tarun Kumar: Calculation of dose-volume parameters and indices in plan evaluation of HDR interstitial brachytherapy by MUPIT in carcinoma cervix. Ind J Cancer, 2018. DOI 10.4103/ijc.IJC_643_17. Ashutosh Das Sharma, Jyoti Poddar, U. Suryanarayan, Sonal Patel Shah, Ankita Parikh, Vimesh Mehta, Tarun Kumar: Dosimetric analysis of the effects of bladder volume on organs at risk (OAR) in high dose rate brachytherapy in carcinoma cervix-An institutional study. J Contemporary Brachytherapy, 2018, 1: 26-31.
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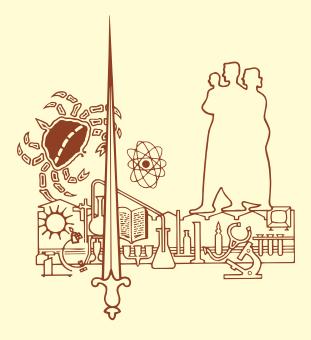
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Stem Cell Biology Lab

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Tumor Biology Lab

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Q3. Ongoing Extramural Research Projects April 2017-March 2018

No.	Name of PI	Project Title	Funded by
		Clinical Carcinogenesis Lab	
1	Dr. Trupti Trivedi	Elucidating prognostic markers in glioma: a correlative and a pilot study to differentiate glioma subtypes using liquid biopsy	GCS/GCRI
2	Dr. Trupti Trivedi	Exploring significance of molecular markers for classification of medulloblastoma tumors	GCS/GCRI
3	Dr. Trupti Trivedi	Establishment of potential biomarkers for the management of brainstem glioma tumors	GCS/GCRI
		Microbiology Lab	
4	Dr. Parijat Goswami	Prevalence of New Delhi Metallo Beta lactamase in acinetobacter species	GCS/GCRI
		Community Oncology & Medical Records	
5	Dr. Shashank Pandya	Rural Cancer Registry, Ahmedabad District	National Centre for Disease Informatics and Research, National Cancer Registry Programme, ICMR, Bangalore
6	Dr. Shashank Pandya	Population based cancer registry - Ahmedabad Urban Agglomeration Area	National Centre for Disease Informatics and Research, National Cancer Registry Programme, ICMR, Bangalore
7	Dr. Shashank Pandya	Hospital based cancer registry (HBCRs) and patterns of care and survival studies on cancer breast, cancer cervix and head and neck cancers	National Centre for Disease Informatics and Research, National Cancer Registry Programme, ICMR, Bangalore
8	Dr. Janmesh Shah	Effectiveness and safety of 2 Vs 3 doses of HPV vaccine in preventing cervical cancer: An Indian multicentric study	International Agency for Research on Cancer, Lyon, France
		Cytogenetic Lab	
9	Dr. Prabhabhai Patel	Clinical implication of MMPs, VEGF and hTERT in Imatinib resistant CML patients	GCS/GCRI
10	Dr. Prabhabhai Patel	Clinical implications of multidrug resistance proteins in CML patients	GCS/GCRI
11	Dr. Pina Trivedi	Study of clinical and prognostic significance of gene rearrangements in CLL	GCS/GCRI
12	Dr. Dharmesh Patel	Study of PTEN alterations in prostate cancer patients as a prognostic marker	GCS/GCRI



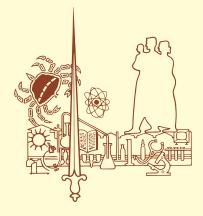
No.	Name of PI	Project Title	Funded by
	L	Immunohematology Lab	<u> </u>
13	Dr. Hemangini Vora	A study of triple negative breast cancer with respect to molecular subtypes assessed on immunohistochemistry and its correlation with survival	GCS/GCRI
14	Dr. Hemangini Vora	Detection of minimal residual disease in acute lymphoblastic leukemia by multicolor flowcytometry	GCS/GCRI
15	Dr. Nupur Patel Dr. Hemangini Vora	A study to determine role of miRNA 200 family molecules in breast cancer patients exhibiting EMT	GCS/GCRI
16	Dr. Hemangini Vora Dr. Priti Trivedi	Determination of sensitivity of Napsin A and p40 in differential diagnosis of NSCLC	GCS/GCRI
17	Dr. Priti Trivedi Dr. Hemangini Vora	A study of hormonal markers and proliferative markers in pituitary adenoma	GCS/GCRI
		Medical Oncology	
18	Dr. Asha Anand	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
19	Dr. Asha Anand	A prospective, randomized, multi-center study to compare the safety, tolerability and efficacy of Bevacizumab (ZydusCadila) with Bevacizumab (Avastin®) in non small cell lung cancer (NSCLC)	Zydus Cadila
20	Dr. Harsha Panchal	Prospective, multi-centre, randomized, open-label, two arm, parallel group, active-control, comparative clinical study to evaluate efficacy, safety and pharmacokinetics of R-TPR-016/ Herceptin® (HerclonTM) when given intravenously in patients with metastatic HER2-overexpressing breast cancer	Reliance Life Sciences
21	Dr. Harsha Panchal	A phase II/III open label multicentric randomized 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
22	Dr. Harsha Panchal	A phase III randomized , open label, multicentric, global study of MED14736 in combination with Tremelimimab therapy versus standard of care platinum based chemotherapy in first line treatment of patients with advanced or metastatic non small cell lung cancer (NSCLC) (NEPTUNE)	Astra Zenecea
23	Dr. Harsha Panchal	Reditux [™] registry to compare effectiveness, safety, and resource utilization of Reditux [™] vs. the reference medicinal product to treat diffuse large B-cell lymphoma and chronic lymphocytic leukemia in routine clinical practice	Dr. Reddy's Laboratories Ltd.
24	Dr. Harsha Panchal	A randomized, double-blind, placebo-controlled, phase 3 study to compare NSAI (Anastrozole or Letrozole) plus Abemaciclib, a CDK4 and CDK6 inhibitor, or plus placebo, and to compare fulvestrant plus Abemaciclib or plus placebo in postmenopausal women with hormone receptor-positive, HER2-negative locoregionally recurrent or metastatic breast cancer	Eli Lilly & Company



No.	Name of PI	Project Title	Funded by
25	Dr. Harsha Panchal	A study of palbociclib in combination with Letrozole as treatment of post-menopausal women with hormone receptor- positive, HER2-negative advanced breast cancer for whom letrozole therapy is deemed appropriate	Pfizer Ltd.
26	Dr. Apurva Patel	A phase III multicenter, randomized study of oral LDK378 versus standard chemotherapy in previously untreated adult patients with ALK rearranged (ALK-positive), stage IIIB or IV, non-squamous non-small cell lung cancer	Novartis
27	Dr. Apurva Patel	A prospective, adaptive, randomized, open-label, multicenter clinical trial to assess the efficacy and safety of fixed dose combination of capecitabine & cyclophosphamide in patients of metastatic breast cancer with failure of anthracycline and/or taxane chemotherapy	Intas (Lambda)
28	Dr Apurva Patel	An open label, single arm, multicentric, phase IV study to evaluate the safety and efficacy of bevacizumab of Intas Pharmaceuticals limited in approved indications	Intas (Lambda)
29	Dr. Sonia Parikh	ABO8026 A prospective, multicenter, randomized, open-label, active-controlled, two-parallel groups, phase III study to compare the efficacy and safety of masitinib at 7.5 mg/kg/day to dacarbazine in the treatment of patients with non-resectable or metastatic stage III or stage IV melanoma carrying a mutation in the juxta membrane domain of c-kit	Maya Clinicals
30	Dr. Shashank Pandya	A phase III randomized controlled study of injection proluton (Hydroxyprogesterone caproate) as single dose preoperative therapy in patients with high risk operable breast cancer	Tata Memorial Center
31	Dr. Shashank Pandya	Randomized controlled trial to assess blockade of voltage gated sodium channels during surgery in operable breast cancer	Tata Memorial Center
32	Dr. Priti Sanghavi	A multi-centre, randomized, double blind, parallel-group, comparative clinical trial to evaluate the safety and clinical equivalence of generic clotrimazole Troche/Lozenges USP, 10 mg (Unique Pharmaceutical Laboratories, India) to Clotrimazole Troche/Lozenges ® 10 mg (Roxane Laboratories Inc., USA) in subjects with oropharyngeal candidiasis	Thinq Pharma
33	Dr. Sonal Patel Shah	A two arm, randomized, multicentric, open label, efficacy and safety study of docetaxel lipid suspension for injection of Intas Pharmaceuticals limited, India in non-small cell lung cancer patients	Intas (Lambda)
		Molecular Oncology Lab	
34	Dr. Prabhabhai Patel Dr. Ava Desai	VEGF family expression in cancer cervix and its prognostic significance	GCS/GCRI
35	Dr. Prabhabhai Patel Dr. Ava Desai Dr. Shilpa Patel	Prevalence of high risk human papilloma virus type 16 and 18 in cervical cancers in population from Gujarat, West India	GCS/GCRI
36	Dr. Prabhabhai Patel	Significance of Galectin-3 with glycosylation in oral cancer	GCS/GCRI



NI -	Name of PI	Ductory Ttile	Pour de datas
No.		Project Title	Funded by
37	Dr. Prabhabhai Patel	Immuno score as a new possible approach for the classification	GCS/GCRI
	Dr. Hemangini Vora	of colon cancer Multinational project	
38	Dr. Jayendrakumar Patel	Significance of JAK-2, NPM1, C-KIT and FLT3 ITD and D835	GCS/GCRI
	Palei	mutations in leukemia patients	
		Radiotherapy	
39	Dr. Pooja Nandwani Patel	Study of sequential volumetric changes of parotid gland in early oropharyngeal carcinoma patients treated by image guided radiation therapy	GCS/GCRI
40	Dr. Pooja Nandwani Patel	Comparison of induction chemotherapy followed by concurrent chemoradiotherapy versus adjuvant chemotherapy in locally advanced nasopharyngeal cancer	GCS/GCRI
41	Dr. Maitrik Mehta	Comparison of involved site radiotherapy versus involved field radiotherapy by CT based 3 dimensional conformal treatment planning in Hodgkin's lymphoma	GCS/GCRI
42	Dr. Sonal Patel Shah	DOCEAQUALIP in non small cell lung cancer	Lambda (CRO)
43	Dr. Ankita Parik Dr. Preeti Sanghavi	To evaluate generic Clotrimazole/ Roxane with oropharyngeal Candidiasis	Thinq Pharma
		Stem Cell Biology Lab	
44	Dr. Franky Shah	Assessment of stem cell associated miRNAs in triple negative breast cancer	GCS/GCRI
45	Dr. Franky Shah	Assessment of hedgehog signalling pathway in progression of oral cancer	GCS/GCRI
		Tumor Biology Lab	
46	Dr. Nandita Ghosh	Molecular markers of Wnt signalling pathway in breast cancer: A preliminary study	GCS/GCRI
47	Dr. Nandita Ghosh	Circulating levels of miRNA-21 and miRNA-221 as biomarkers in colorectal cancer	GCS/GCRI
48	Dr. Nandita Ghosh	Exploring the clinical importance of molecular biomarkers involved in EGFR-induced and K-Ras mediated signaling pathways in colorectal cancer patients	GCS/GCRI





R. List of Equipments 2017 - 2018

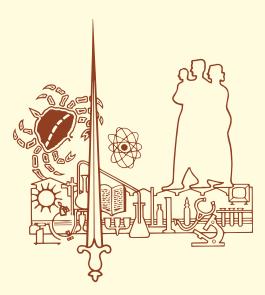
No.	Name of the Instrument	Qty.	Company Name	Price in Rs.
	Tumor			
1	Water Bath	1	Marco Scientific	16,520.00
	Mic	robio	logy	
1	Automated Analyser for CRP and Immunological tests	1	Unity Healthcare	147,500.00
2	-20°C Deep freezer	1	Kensure Healthcare Pvt. Ltd.	507,150.00
3	Blood Culture System	1	M/s. BactecFX40	575,397.00
	N	euro (DT	
1	Horizontal Steam Sterilizer	1	M/s. Precision Electronic Instruments & Company	1,184,400.00
	Main OT / S	urgic	al Oncology	
1	High Flow CO ₂ Insufflator	1	Surgiworld Healthcare System	222,929.00
2	Portable Electrical Suction Machine	4	Harsh Surgical	52,640.00
3	Ultrasonic Surgical Aspirator	1	Cure Surgicals	3,759,000.00
4	Battery Drill System for Orthopadic use	1	Medical Development Engineering	1,075,750.00
5	Vessel Sealing with Argon Plasma Coagulation & Water jet System with essential accessories	1	Pulse Biomed	7,117,129.00
6	Syringe Infusion pump	5	Akas Medical	139,910.00
7	Micro Saw	1	M/s. Surgiworld Healthcare system	12,68,917.00
8	Endoscopic 3D Laproscopic System	1	M/s. Karl Storz Endoscopy India Pvt. Ltd.	4,311,000.00
9	Full High Definition Laproscopy Surgery Set	1	M/s. Surgiworld Healthcare System	2,800,000.00
10	ESU with argon coagulation with essential accessories	1	M/s. Pulse Biomed	1,701,949.00
11	Intermittent Sequential Compressor device	1	Ved Medical & Services	112,000.00
12	Gamma Detection Probe	1	M/s. Saxsons Biotech Pvt Ltd.	2,718,600.00
13	Electrosurgical Generator for underwater cutting and Vessel Sealing system with all essential accessories	1	Pulse Biomed	1,515,285.00
	Histo	patho	ology	
1	Automatic Slide Stainer With Cover Slipper	1	M/s. Global Equipments	6,982,500.00
2	Cryocut	1	M/s. Siddharth Scientific	19,31,790.00
	Cytog	enetic	cs Lab	
1	Slide warmer	2	Ultra Scientific Instrument	46,620.00
2	Centrifuge	1	Arihant Enterprise	31,624.00
3	Hot Air Oven	1	EIE Instrument	24,544.00
4	Weighing Balance	1	Marco Enterprise	240,384.00



No.	Name of the Instrument	Qty.	Company Name	Price in Rs.
		od Ba		
1	Vertical Autoclave	1	D. K. Scientific Technologies	122,850.00
2	Portable Di-Electric Tube sealer	1	Nisha Slaes	134,000.00
3	Di-Electric Tube Sealer	1	RS Enterprise	80,360.00
4	Tube stripper	1	RS Enterprise	14,336.00
5	Plasma Freezer -40°C Deep freezer	1	Kensure Healthcare Pvt. Ltd.	507,150.00
6	Refrigerated Cenrifuge Component Separation	1	J. B. Healthcare	3,500,000.00
	Gynecologica	al On	cology / OPD	
1	Colposcope	1	M/s. Regulas Marketing Pvt. Ltd.	18,28,570.80
2	Hysteroscope	1	M/s. Surgiworld Healthcare System	2,300,000.00
	Carcino	ogene	sis Lab	
1	Weighing Balance	1	Marco Enterprise	240,384.00
	Phys	siothe	rapy	
1	Low Level Therapeutic Laser for Physiotherapy	1	M/s. Bio-tech India	1,679,912.00
	Surg	gical (OPD	
1	Telescope 90 degree	1	Karl Storz	205,000.00
	CO	C Vas	sna	
1	Autoclave	1	New Era Marketing	15,225.00
	Siddhpur Ca	ncer	Care Center	
1	ECG Machine	1	Sterling Sales & Services	48,750.00
2	Centrifuge	1	Arihant Enterprise Pvt. Ltd.	31,624.00
3	Semibiochemistry Auto Analyzer	1	MicroLab Systems	85,999.00
4	BOD incubator	1	DP Analytics	28,480.00
5	Hot air oven	1	EIE Instruments	24,544.00
6	Binocular Microscope	1	Lawrance and Mayo	46,080.00
	Molecular	r Onc	ology Lab	
1	-80°C Deep freezer	1	Biolinx Lab System Pvt. Ltd.	1,303,346.00
2	Refrigerated Cenrifuge	1	M/s. Biolinx Lab System	15,96,850.80
		DSU		
1	Digital Single Chip Medical Video Camera Head	1	Healthware Pvt. Ltd.	201,876.00
		IVTC		
1	Thoracovideoscope	1	Healthware Pvt. Ltd.	2,185,006.00
2	Video bronchoscope	1	Sun Medical Systems	2,520,000.00
3	Flushing Pump	1	M/s. Healthware Pvt. Ltd.	2,94,451.50
4	CO ₂ Insufflation unit	1	M/s.Healthware Pvt. Ltd.	433,000.00
5	Endowasher	1	M/s. Mitra Medical Services LLP	634,410.00
6	Gastroendoscopy System (EUS) System	1	M/s. Surgiworld Healthcare System	8,463,000.00
7	High Defination Gastrovideoscope	1	M/s. Pulse Biomed	3,912,339.00
8	High Defination Colonovideoscope	1	Sun Medical Syestem	1,540,000.00



No.	Name of the Instrument	Qty.	Company Name	Price in Rs.
9	High Definitation Duodenoscope	1	M/s. Sun Medical System	1,047,200.00
10	High Definition Pediatric Gastroscope	1	M/s. Sun Medical System	1,478,400.00
11	High Definition Entereovideoscope	1	M/s. Sun Medical System	2,464,000.00
	Anes	thesio	ology	
1	Patient Controlled Analgesia	1	Akas Medical	41,107.00
2	Adult Airway Management Trainer	1	Aditya Surgical	207,000.00
3	Blood Warmer	1	Aditya Surgical	91,800.00
4	Intubating Fiber Optic Bronchoscope	1	Health Ware Pvt. Ltd.	1,149,781.00
5	Portable USG for nerve block	1	M/s. Fujifilm India Pvt. Ltd.	1,631,375.00
6	Advanced CPR Training System with Feedback	1	Aditya Surgical	336,300.00
	Canc	er Bie	ology	
1	Droplet Digital TM PCR	1	M/s. Bio - Rad Laboratries	65,07,055.80
2	Real Time PCR	1	M/s. Unity Healthcare	829,500.00
2	Modular Cell / Tissue Culture Facility	1	M/s. Fusiontek	9,011,399.00
3	Micro Array Facility	1	M/s. Bioinnovation	21,281,300.00
4	Gel Documentation with Chemiluminascence	1	M/s. Biolinx Labsistem Pvt. Ltd.	1,628,400.00
5	Multimode Micro Plate Reader	1	M/s. Biolinx lab system	2,904,954.00
6	Centrifuge for 96 well plate	1	M/s. Biolinx Lab System	616,782.49
	Ra	adiolo	gy	
1	3T MRI	1	M/s. Siemens Healthcare Pvt. Ltd.	130,707,781.00
2	Digital Mammography	1	M/s. Siemens Healthcare Pvt. Ltd.	35,045,571.00





S. Balance Sheet



THE GUJARAT CANCER & RESEARCH INSTITUTE

(M. P. SHAH CANCER HOSPITAL) Affiliated to B J Medical College

FINANCIAL STATEMENT (BALANCE SHEET) 2017 - 2018

Civil Hospital Campus, Asarwa, Ahmedabad 380 016, Gujarat, INDIA Tel: 079-22688000 (Hunting); Fax: 079-22685490



N. M. NAGRI & CO.

CHARTERED ACCOUNTANTS 'A' Block, 5th 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: <u>mmagri@hotmail.com</u>

Independent Auditors' Report

Name of the Public Charitable Trust – THE GUJARAT CANCER & RESEARCH INSTITUTE Trust 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, 2018 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 that give a true and fair view of the financial position and financial performance of the Institute in accordance with the accounting principles generally accepted in India and as per the provisions of The Gujarat Public Trusts Act, 1950 (Bom. XXIX of 1950) (the Act). This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding the assets of the Trust and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and 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. Those 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 financial controls 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





N. M. NAGRI & CO.

CHARTERED ACCOUNTANTS

⁴A' Block, 5th 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: <u>nmnagri@hotmail.com</u>

effectiveness of the Trust's internal financial controls. 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.

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

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 March 31, 2018 are prepared, in all material respects, in accordance with The Gujarat Public Trusts Act, 1950 (Bom. XXIX of 1950).

Report on Other Legal and Regulatory Requirements

As required by The Gujarat Public Trusts Act, 1950 as applicable to the State of Gujarat and on the basis of such checks as we considered appropriate and necessary and according to the information and explanations given to us, we report that :-

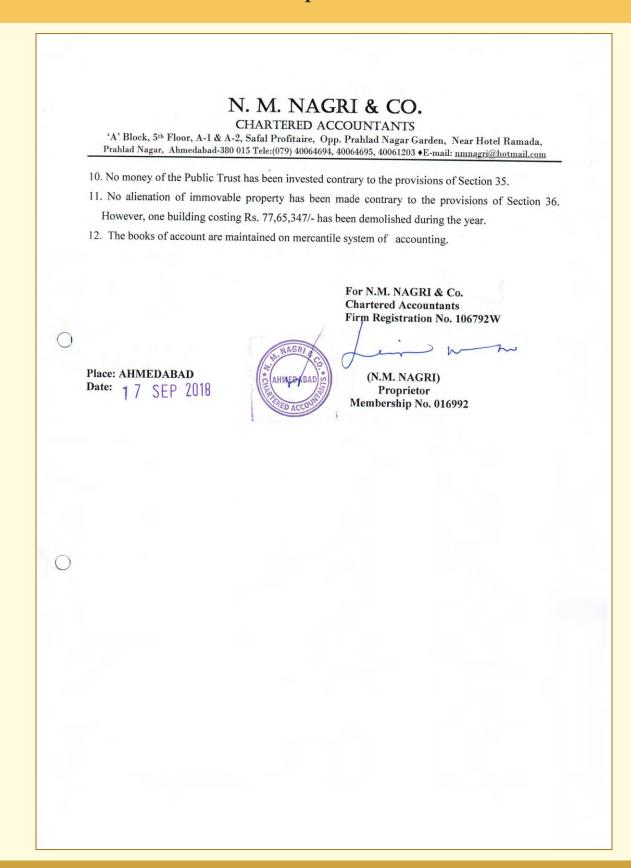
1. The accounts are maintained regularly and in accordance with the provisions of The Gujarat Public

Trusts Act, 1950 (Bom. XXIX of 1950) and the Bombay Public Trusts (Gujarat) Rules, 1961.

- 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 Cashier/ Accountant 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 Chief Accountant 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.
- The amounts of Receivables outstanding for more than one year are Rs.47,47,685/- and treated as doubtful of recovery. Full provision for doubtful debts has been made in the past. The amounts written off are Rs. Nil.
- 9. Tenders were generally invited for repairs and construction where the expenditure exceeded Rs.5000/-.









		ME OF PUBLIC TRU Trust No	: F/451/AHD Date o	E RULE 17(1)] CANCER AND RESEARCH INSTITUTE f Registration: 29.1.1972			
	Address of		Hospital Campus, As ance Sheet as at 3	arwa, Ahmedabad-380016 Phone No: 2268800 11st March, 2018	00		
Bank Account No. of Trust for transaction	s of Foreign C	ontribution 316281908	1. F.C.R.A No. 0419104	56 Date: 20.1.2014 Central Bank of India, Chaman	pura Br., C		
FUNDS AND LIABILITIES	Sch. No.	INI As at Ma		PROPERTY AND ASSETS	Sch.	INR As at Mar	
		2018	2017		No.	2018	2017
Frust Funds or Corpus Balance as per last Balance Sheet	1	1,195,509,799	986,725,660	Immovable Properties Investments	5	32,536,499	40,301,846
Adjustment during the year			208,784,139	Furniture, Fixtures & Others	5	755,572,072	624,650,822
Other Earmarked Funds:		1,195,509,799	1,195,509,799	Loans(Secured or unsecured) Good/Doubtful			
Depreciation Fund	5	421,763,597	385,812,474	Loan Scholarships			
Sinking Fund Reserve Fund			2	Other Loans Sundry Debtors	6	2,434,376	3,014,508
Any Other Funds	2	1,484,360,178	1,370,786,167	Inventories	7	15,393,182	17,762,414
Loans(Secured or Unsecured):		1,906,123,775	1,756,598,641	Advances: To Trustees	8	4	
From Trustees				To Employees		292,676	544,077
From Others	-			To Contractors To Lawyers		221,049	48,000
Liabilities:				To Others		51,781,191	51,544,338
For Expenses For Advances	3	126,934,922 21,759,039	120,897,346 23,712,069	Income Outstanding:		52,294,916	52,136,415
For Rent and Other Deposits	4	69,805,185	88,534,887	Rent			1.00
For Sundry Credit Balances		190,518,850 409,017,996	179,705,254 412,849,556	Interest Other Income		79,609,519	35,216,575
		403,011,390	442,043,330			79,609,519	35,216,575
Income and Expenditure Account:		(733,313,357)	(756,670,088	Cash and Bank Balances (a) In Current & Saving Accounts and Fixed			
				Deposit Accounts	9	1,917,759,639	1,856,272,101
\bigcirc		/ DO FAO 771	23,356,731	(b) In F.C.R.A Account No 3162819081 and	9	2,034,097	2,109,851
Add/Less : Surplus/(Deficit) as per Income		80,540,771		Fixed Deposit Account		2,034,037	2,200,002
\bigcirc		(652,772,586)	(733,313,357	(c) With the Trustee			
Add/Less : Surplus/(Deficit) as per Income and Expenditure Account	12A				9	244,684	180,107
Add/Less : Surplus/(Deficit) as per Income and Expenditure Account source to the Financial Statements torsa Sortal 1) Immovable properties are valued at cost. 2) Investments are valued at cost. 3) All the bank accounts stand in the name of 1 4) There are no investments in concerns in wh 5) The accounts are maintained on mercantile the above Balance Sheet to the best of our bell FOR AND ON WMM	12B the Institute. Ich the truste system of ac ef contains a BEHALF OF	(652,772,586) 2,857,878,984 ess are interested. counting. true account of the F TRUSTEES	(733,313,357 2,631,644,639	(c) With the Trustee (d) With the Cashier TOTAL nd of the Property and Assets of the Institute.	As per or	244,684 1,920,038,420 2,857,878,984 ur report of even date I NAGRI & CO.,	180,107 1,858,562,059 2,631,644,639
Add/Less : Surplus//Deficit) as per Income and Expenditure Account Significant Accounting Policies Notes to the Financial Statements TOTAL (3) Investments are valued at cost. (3) Investments are valued at cost. (3) Investments are valued at cost. (3) The accounts are maintained on mercantile The above Balance Sheet to the best of our bell FOR AND ON Pankaj R. Patel Chairman & Trustee	12B the Institute. Ich the truste system of ac ef contains a BEHALF OF Wa M. Prashant Ki Trustee	(652,772,586) 2,857,878,984 2,857,878,984 2,857,878,984 counting. true account of the F TRUSTEES a mire of the F antivela	(733,313,357 2,631,644,639	(c) With the Trustee (d) With the Cashier TOTAL	As per or For, N.M Chartere Firm Reg	244,684 1,920,038,420 2,857,878,984 ur report of even date I NAGRI & CO., ed Accountants t, No.106792W	180,107 1,858,562,059 2,631,644,639
Add/Less : Surplus/(Deficit) as per Income and Expenditure Account Significant Accounting Policies Notes to the Financial Statements TOTAL Notes: (1) Immovable properties are valued at cost. (2) Investments are valued at cost. (3) All the bank accounts stand in the name of f (4) There are no Investments in concerns in wh (5) The accounts are maintained on mercantile The above Balance Sheet to the best of our bell FOR AND ON Pankaj R. Patel Chairman & Trustee	12B the Institute. Ich the truste system of ac ef contains a BEHALF OF Wa M. Prashant Ki Trustee	(652,772,586) 2,857,878,984 2,857,878,984 2,857,878,984 counting. true account of the F TRUSTEES a mire of the F antivela	(733,313,357 2,631,644,639	(c) With the Trustee (d) With the Cashier TOTAL nd of the Property and Assets of the Institute.	As per or For, N.M Chartere Firm Reg (N.M Na Propriet Member A Block,	244,684 1,920,038,420 2,857,878,984 ur report of even date I NAGRI & CO., ed Accountants t, No.106792W grl) or sship No. 016992 Sth Floor, A-1 & A-2,	180,107 1,858,562,059 2,631,644,639 attached
Add/Less : Surplus/(Deficit) as per Income and Expenditure Account Significant Accounting Policies Notes to the Financial Statements TOTAL (2) Inverse and the properties are valued at cost. (2) Inversements are valued at cost. (3) All the bank accounts stand in the name of f (4) There are no investments in concerns in wh (5) The accounts are maintained on mercantile the above Balance Sheet to the best of our bell	he institute. ch the truste system of ac ef contains a BEHALF OF Prashant Ki Trustee 2016 Phone I	(652,772,586) 2,857,878,984 2,857,878,984 res are interested. counting. true account of the F TRUSTELS an vc.Cc narivala No: 22668000	(733,313,357 2,631,644,639	(c) With the Trustee (d) With the Cashier TOTAL nd of the Property and Assets of the Institute.	As per or For, N.M. Chartere Chartere (N.M Na Propriet Member A Block, Safal Pro- Hotel Ra 380015	244,684 1,920,038,420 2,857,878,984 ur report of even date INAGRI & CO., d Accountants , No.106792W gril or ship No. 016992 Sth Floor, A.1 & A.2, filtaire, Con Prabladna	180,107 1,858,562,059 2,631,644,639 attached



	NAM	ME OF PUBLIC TRUST					
		he Trust Office: Civil Ho	ospital Campus, As	arwa, Ahmedabad-380016 Phone No: 2268	8000		
Bank Account No. of Tourt for transaction				the year ended 31st March,2018 456 Date: 20.1.2014 Central Bank of India, Char	name of the	Chill Mornital Compute Ab	madahad
Bank Account No. of Trust for transactio	Ins of Poreign C	INR	P.C.R.A NO. 041510	456 Date: 20.1.2014 Central Bank of India, Char		INR	imedabad.
EXPENDITURE	Sch. No.	For the year ended		INCOME	Sch. No.	For the year ended	
o Expenditure in respect of properties:	+ +	2018	2017	By Income	-	2018	2017
Rates, Taxes, Cesses		5,565,358	4,673,577	Hospital Income		704,881,161	825,008,637
Repairs and Maintenance		8,963,189		By Rent (accrued/realized)		96,000	143,000
Salaries Insurance				By Interest (accrued/realized) On Securities			
Depreciation	5	1,539,349	2,100,881	On Loans			
Other Expenses		497,968	2,507,550	On Bank Account		35,495,737	42,682,243
o Establishment Expenses		16,565,864	19,421,538	By Dividend By Donations in cash or kind:			1,250
Remuneration (in the case of math)			-	Domestic			0
o the head of the math, including his				International			
ousehold expenditure, If any. o Legal and Professional Expenses		3,036,253	4 112 125	F.C.R.A No. 041910456 Date: 20.1.2014 By Grants from Government of Gujarat		720,000,000	680,023,000
o Audit Fees		423,500		By Income from Other Sources	10	8,500,101	10,157,959
o Contribution and fees			-	By Transfer from Reserve			-
o Amounts Written off: (a) Bad Debts							
(b) Loan Scholarship			2				
(c) Irrecoverable Rents		-					
(d) Other Items			-				
o Miscellaneous Expenses o Depreciation	5	41,679,153	33,409,564				
o Impairment Loss on GOI Fixed Assets	12(B)(4)	-	197,762,170				
o Amounts transferred to Reserve of	1000						
fic Funds							
penditure on objects of the Trust: (a) Religious							
(b) Educational							
(c) Medical Relief	11	1,326,727,458	1,279,550,451				
(d) Relief of Poverty (e) Other charitable objects							
o Surplus/(Deficit) Carried over to Balance			-				
heet		80,540,771	23,356,731				
ignificant Accounting Policies	12A						
Notes to the Financial Statements	12A	1.000					
OTAL	BEHALF OF	1,468,972,999	1,558,016,089	TOTAL	-	1,468,972,999 ur report of even date a	1,558,016,089
	Prashant Kir	harivala				s. No.106792W	
Chairman & Trustee	Trustee			InchargeØfrector	i	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~
Pankaj R. Patel Chairman & Trustee Civil Hospital Campus, Asarwa, Ahmedabad-3	Trustee			J	(N.M Na Propriet	veri) or	~~
Chairman & Trustee	Trustee			f	(N.M Na Propriet Member	or rship No. 016992	~~
Chairman & Trustee	Trustee			J	(N.M Na Propriet Member A Block,	gri) or rship No. 016992 Sth Floor, A-1 & A-2,	ar Gardan
Chairman & Trustee	Trustee			· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho	igri) or rship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag tel Ramada, Prahladnag	ar,
Jairman & Trustee Jivii Hospital Campus, Asarwa, Ahmedabad-3	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda	gri) or rship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag tel Ramada, Prahladnag tel Ramada, Prahladnag	ar,
Chairman & Trustee	Trustee 880016 Phone	No.: 22688000		17 SEP 2018	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda	gri) or ship No. 016992 5th Floor, A-1 & A-2, fikater, Opp Prahladnag bad-380015 Phone No: hmedabad	ar,
Dairman & Trustee 2:vil Hospital Campus, Asarwa, Ahmedabad-3 ∵e: Ahmedabad 1 7 SEP	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A	gri) or ship No. 016992 5th Floor, A-1 & A-2, fikater, Opp Prahladnag bad-380015 Phone No: hmedabad	ar,
Chairman & Trustee Civil Hospital Campus, Asarwa, Ahmedabad-3	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A	eri) or rship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag teal Ramada, Prahladnag bad-380015 Phone No: hmedabad 2018	ar,
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Chairman & Trustee Civil Hospital Campus, Asarwa, Ahmedabad-3	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A	eri) or rship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag teal Ramada, Prahladnag bad-380015 Phone No: hmedabad 2018	ar,
Chairman & Trustee Civil Hospital Campus, Asarwa, Ahmedabad-3	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A Date:	eri) or rship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag teal Ramada, Prahladnag bad-380015 Phone No: hmedabad 2018	ar,
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nairman & Trustee vil Hospital Campus, Asarwa, Ahmedabad-3 ∵: Ahmedabad 1 7 S ⊑ P	Trustee 880016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A Date:	gril or ship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag bad-380015 Phone No: hmedabad 2018	ar,
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hairman & Trustee Ivill Hospital Campus, Asarwa, Ahmedabad-3 ∵::Ahmedabad 1 7 SEP	Trustee 380016 Phone	No.: 22688000		· f	(N.M Na Propriet Member A Block, Safal Pro Near Ho Ahmeda Place: A Date:	gril or ship No. 016992 Sth Floor, A-1 & A-2, ofitaire, Opp Prahladnag bad-380015 Phone No: hmedabad 2018	ar,
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Dean and all staff members of GCSMCH & RC

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Head of Departments / Units/ Services /Administrative Sections

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Felicitation of Padma Shri Dr. Pankaj M. Shah (Former Director GCRI & Vice President of GCS)







GCRI Mission : Fight against Cancer

