



**MALABAR CANCER CENTRE**  
THALASSERY

**ANNUAL REPORT**  
**2017-2018**

## VISION

*The development of an exponentially progressing apex institution in oncology with equal on clinical care, oncology related educations and multifaceted research*

## MISSION

*Non compromising professionalism and quality in cancer treatment, research and education*

## SERVICE STANDARDS

- *Quality and health care delivery*
- *Accountability in the Governance from top to bottom*
- *Maintaining a patient-centered clinical care*
- *Effective communication*
- *Internal customer satisfaction*

## TABLE OF CONTENTS

Contents		Page No
<b>Apex Body</b>	Governing Body	04
	Executive Committee	05
<b>Messages</b>	Director Message	07
	Brief Overview - Administrative officer	09
<b>Malabar Cancer Center-Introduction</b>	About MCC	10
	MCC profile at a glance	11
	Department and Divisions	13
<b>Department Activities &amp; Achievements</b>	Department of Radiation Oncology	15
	Department of Imageology	20
	Department of Clinical Haematology and Medical Oncology	23
	Department of Surgical Oncology	27
	Department of Clinical Laboratory Services and Translational Research	33
	Department of Cancer Registry and Epidemiology	43
	Department of Community Oncology	48
	Department of Anesthesiology	52
	Department of Cancer Palliative Medicine	55
	Department of Dentistry & Rehabilitation	59
	Department of Engineering and Maintenance	61
	Department of General Administration	64
	Department of Oncology Nursing	79
	<b>Research</b>	Institution Review Board
Scientific Review Committee Members		83
Research Proposals approved by SRC		84
Institutional Ethics Committee Members		89
Scientific Advisory Committee		91
Research Publications		92
<b>Committee</b>		List of Supporting Committees
<b>Educational Programmes</b>	Educational Programmes and Activities	93
	Courses at MCC	94
<b>Accounts</b>	Auditor's Report	95
	Account Statements	97
<b>Patient Welfare Activities</b>	Patient Welfare Scheme	103
	Patient Welfare Fund	103
	How to Support MCC	104
	Patient Free Food Scheme	104

## GOVERNING BODY

1	Chairman	<b>Shri. Pinarayi Vijayan, Hon'ble Chief Minister of Kerala</b>
2	Vice-Chairman	Smt.K.K.Shailaja Teacher, Hon'ble Minister for Health & Social Justice
3	Alternate Vice-Chairman	Shri.Kadakampally Surendran, Minister for Electricity, Kerala
4	Member	Adv.A.N.Shamseer MLA, Thalassery Assembly constituency
5	Member	Shri. K.V.Sumesh President, District Panchayat, Kannur
6	Member	Shri.C.K.Rameshan , Chairman, Thalassery Municipality
7	Member	Shri. Rajeev Sadanandan IAS, Additional Chief Secretary, Department of Health & Family Welfare
8	Member	Shri.E.K.Prakash , Special Secretary ,Department of Finance, Kerala
9	Member	Secretary, Department of Power, Kerala
10	Member	District Medical Officer, Kannur
11	Member	An eminent Medical Scientist
12	Member	Secretary, Department of Science, Technology & Environment
13	Member	One nominee of the Ministry of Health, Government of India
14	Member	Dr.V.P Sasidharan, Principal, Medical College, Kozhikode
15	Member	Secretary- Planning & Economic Affairs Department, Kerala
16	Member	Director- Rajiv Gandhi Centre for Bio technology, Trivandrum
17	Member	Director of Medical Education, Directorate of Medical Education, Trivandrum
18	Member	A public man from North Malabar region (to be nominated by Government of Kerala)
19	Member	One Head of the department nominated from Malabar Cancer centre, Thalassery by the Government
20	Member	One nominee of the Charitable Society established for rehabilitation and financial assistance for poor cancer patients
21	Member	Dr.Paul Sebastian Director, Regional Cancer Centre, Thiruvananthapuram
22	Member	Dr.Sudhakaran.K, Principal, Medical College, Pariyaram.
23	Member	Dr.Satheesan B, Director Malabar Cancer Centre, Thalassery.

## EXECUTIVE COMMITTEE

1	Chairman	Shri Rajeev Sadandan, IAS, Additional Chief Secretary, Health & Family Welfare Department
2	Member	Secretary, Department of Power, Government of Kerala
3	Member	Shri. Jacob Koshy, Additional Secretary to Government, Finance
4	Member	Shri. C K Rameshan, Chairman, Thalassery, Municipality
5	Member	Shri. M C Pavithran, A public man from North Malabar nominated by Government of Kerala
6	Member	Secretary, Department of Planning & Economic Affairs, Government of Kerala
7	Member	Dr. Paul Sebastian, Director, Regional Cancer Centre, Trivandrum
8	Member/ Convener	Dr. B. Satheesan, Director, Malabar Cancer Centre



*“If you cannot do great things, do small things in great way”-Napoleon Hill*



Specialized care is crucial for dealing with a life threatening disease such as cancer. Increased focus on training the treatment providers has been in the frenzied run of the institution as it begins the journey towards being a hub of advanced teaching, research and training in oncology. Oncology related Education can be the key to unlock the potential of specialized care that can benefit the patients immensely. This year we started fellowship programmes in Onco-pathology and head and neck Oncopathology and DNB in surgical oncology. The major drawback of the institution is its piecemeal expansion which gets halted at various stages of construction. Through KIIFB, a detailed project proposal to develop MCC as Postgraduate institute of Oncology Sciences and Research has been submitted. Government has assigned M/s BSNL as Special Purpose Vehicle for the project. The project aims to complete the hospital complex and various departments which would enable us to start various courses.

Through various social welfare and financial assistance schemes of the government, a total of 10,598

patients were provided free treatment for an amount of Rs Thirty four crores eighteen lakhs sixteen thousand and two hundred and sixty two. As per the records nearly 97% of patients were treated through various schemes and this has helped large number of poor patients. The records suggest that nearly 70% of patients seek treatment at MCC belong to socioeconomically weaker sections

Improvements in service and treatment have been achieved through the addition of new technology, advanced equipment and the addition of qualified and well trained medical and Para medical staff. Up gradation of Varian Eclipse planning system to version 13.7 was implemented and commissioned in this year and completed the tender process of high-end multislice CT scan, interventional radiology DSA and accessories etc.

Clinical laboratory started 14 new tests including CRP qualitative analysis. Dental implant surgery could be started and it could enhance the thrust area of rehabilitation oncology. MCC initiated collaboration with National Institute of Electronics

& Information Technology, Calicut for a few projects of research in cancer treatment. Rajyasabha MP in Kannur Shri. K .K. Ragesh magnanimously helped the institution to develop state of Genetics lab with the assistance of MPLAD. An amount of Rs. 1,28,40,277.00 Was sanctioned for the facility which could help us install and use Next Generation Sequencer. The lab was inaugurated by our Hon'ble Chief Minister Shri. Pinarayi Vijayan. Genetics lab provides invaluable inputs on cancer management through cancer mutation analysis .This has brought MCC to higher level of diagnostic and personalised management capabilities A few research projects could be initiated .

460 students including 30 medical doctors 256 BSC nursing, 2 medical physics interns and trainees etc. underwent short term training at MCC during this period .There are 88 research projects being carried out. There were 4496 new cancer patients registered among the total registration 6723.The number of follow up visits during the period was 63278 and there were 4621 in-patients. Around 1902 new patients received radiation therapy and 1100 major surgeries were performed in two operation theatres.

Community oncology department could play a significant role in MCC for cancer awareness and cancer control activities in major part of Kerala. Exhibition, seminars and cancer detection camp were carried out by the department. Structured program with various local self-government bodies showed positive results. These are part of epidemiological and intervention studies carried out by department of Community oncology. A few early cancer detection clinics were set up during the period.Anti-tobacco activities including regular publication of Nethi; Abhayam etc were also the thrust areas. Community Oncology started a new project for school students to make them aware of cancer called 'kunharivukal'. School students of the class IX and XI th standard were permitted to visit MCC and they were given

awareness and orientation program on cancer and its prevention. In addition, visits to laboratories provide impetus to creation of enthusiasm in the subject and science. The programme was well appreciated by schools and regular visits were noted. Community Oncology department conducted 145 cancer detection and screening camps, 16 awareness classes and 48 Blood donation camps.

Expansion of Population based cancer registry is initiated to include other five districts of north Kerala- Kozhikode, Wayanad, Malappuram, Palakkad and Thrissur. PBCR named as Malabar Population Based Cancer Registry was started in 2014. Expansion of PBCR is a huge task and this is expected to rejuvenate the dream of Kerala Cancer Registry

The major highlight of the year was conferment of National Florence knighting gale award on the staff nurse Mrs. Sindhu N R. Dr Saina was awarded the best doctor in Kannur district by district administration.

The continued support of philanthropists and various NGOs and voluntary organizations to help needy patients are duly acknowledged with respect and gratitude. A few to specifically mention are Malabar CH Centre for providing free food for all inpatients. Similarly Arsraya Charitable Society, Abhaya foundation and DePaul centre for providing accommodation and food for patients of MCC are appreciated and acknowledged.

Scientific Advisory Committee provided invaluable guidance and inputs on the development of various academic and training programs in the institution.

I express my sincere thanks to all the members of Governing body, Executive committee and other standing committee's and effort of my staff in keeping and nurturing MCC as an apex institution in oncology in the state. I expect this annual report would provide a bird's eye view on the institution in 2017-18 periods.



## BRIEF OVERVIEW-ADMINISTRATIVE OFFICER

Malabar Cancer Centre (MCC) is an autonomous Centre, under Department of Health & Family Welfare, Government of Kerala. A quality healthcare service in cancer, under public sector, as it exists today is concentrated mainly with Regional Cancer centre, Trivandrum and Malabar Cancer Centre Thalassery. There is a huge dependency on this Centre and exponential demand in the healthcare space gives us the confidence that we are moving in the right direction with the right strategies and the right talent on board. MCC's strategy is to deliver quality affordable services to every section of society. MCC aims to maintain focus on clinical excellence, affordability, and sequentially also ensure the overall development of the Institute towards a premier cancer care and research centre. We recognize that a patient feels most vulnerable when he/she arrives at a hospital. It has therefore been our constant endeavour to make our patients feel most comfortable and cared for. MCC is promoting effective patient attendant training programme that is meant to cultivate a culture of organized learning; with specific training to ensure seamless service delivery. The past year clearly reflects the growth and development of MCC and also the physical progress achieved by the Centre in hospital services. Even though we are moving in the right direction, we could have still marched ahead in a bigger way, but was restricted due to non-execution of construction of various major projects of MCC by the Agency/Consultant, to whom entire construction works and consultancy works were entrusted. Now the construction agency has changed and the scenario looks bright ahead.

There has also been noticeable improvement in key areas like clinical excellence, patient care, community related programmes etc: - A series of sustainable strategic actions were designed to enhance organizational capabilities and improve patient care. In our journey of continuous improvement our prime task has been to strengthen our clinical framework. This is being carried out by continuous focus on talent, training, processes and following clinical pathways. We are indeed proud to say that today; MCC occupies a preferred place in many of the clinical



areas that it has concentrated. We commend the entire medical team for this fantastic effort which is worthy of great praise

A few drawbacks noticed would be reviewed at year-end and addressed appropriately.

During the year priority will be given for setting up Infrastructure for Paediatric Oncology Block & Nursing College (INSeR), Enhancement of Surgical Oncology, purchase of Picture Archiving and Communication System (PACS) with accessories and associated softwares, Augmentation of Anaesthesiology & Critical Care Departments, Replacement of Conventional Radiotherapy Simulator, PET-CT Scanner with accessories for diagnosis and Radiation Treatment Planning, Setting up of Personalized Medicine Research Laboratory etc:- are few important ones.

While keeping the highest level of quality and clinical excellence, MCC will continue to pursue initiatives that keep tight control on purchases, driving down capital costs by effective control and to develop new technologies. It should be seen that MCC is in a developing phase and the desired goal can be achieved only with the whole-hearted support of all our dedicated staff members.

## ABOUT MCC

Malabar Cancer Centre, Thalassery (MCC) is an autonomous institution under Health and Family Welfare Department, Government of Kerala, started with an aim to establish a comprehensive cancer centre, providing the much-required oncology care to the population of Northern region of Kerala and neighbouring parts of Karnataka and Tamilnadu states and Union Territory of Pondicherry(Mahe). The centre, situated in a beautiful hill top in Kodiyeri in Thalassery Municipality 5km away from town established in 2001. The main objective of the Centre is not only to provide comprehensive cancer care but also to develop as a Research and Training Centre of International standards. At present MCC has total bed strength of 200 with 170 in-patient beds.

The institution is a tertiary cancer centre which renders its service to society with equal thrust on clinical and oncology related education and Clinical Oncology services. MCC is being developed as a postgraduate institute of oncology sciences and research. The institution is in the process of developing and establishing a unique Clinical Research department to coordinate clinical research activities. It has research association with School of Health Sciences,

Kannur University, Centre for Electronic Materials Technology, Thrissur and P.S.Vaidhyarathnam Ayurveda College, Kottakkal, HTIC-Chennai, National cancer Grid etc. It is expected that these could bring in revolutionary changes in the management of cancer. Malabar Cancer Centre has been recognized as Research Institute by Kerala University of Health Science.

The control and management of the Society are vested in the Governing Body consisting of 23 members with the Hon'ble Chief Minister of Kerala as the Chairman, Hon'ble Minister for Health as Vice Chairman and Hon'ble Minister for Power as Alternate Vice-Chairman. The routine activities and functions of the Centre are supervised by the Executive Committee, with the Secretary, Department of Health and Family Welfare, Government of Kerala, being the Chairman of the Committee. The members in the Governing Body and Executive Committee function by virtue of their official positions. The institute has grown to possess highly sophisticated facilities to provide cancer care. The hospital has a team of well trained staff, rendering cancer care to the needy.

## MCC Profile at a glance-2017-18

<b>Patients</b>	<b>2017-18</b>
Total New Case Registration	6723
New Cases	4496
Non Cancerous Cases	2227
Follow up cases	63278
Non Cancerous cases(FU)	2620
Total patients	72621
In patients	4621
<b>Education and Training- categories</b>	<b>No. of students</b>
Medical Doctors	30
M.Sc Nursing	02
B.Sc Nursing	256
M.Sc. Physics	02
B.Sc. / M.Sc. MLT, B.Sc./ M.Sc Life Sciences	121
Bachelor in Audiology and Speech Language Pathology	25
B.Tech	05
MSW	15
ASAP DOT	04
<b>Surgical Oncology</b>	<b>2017-18</b>
Major Surgeries	1198
Minor Surgeries	515
<b>Total surgeries</b>	<b>1713</b>
Endoscopies	2516
<b>Radiation Oncology</b>	<b>2017-18</b>
Brachytherapy	332
Brachytherapy (pt. bases)	113
RT Simulator	396
Linac RT( Total No. of New case)	1678
Linac RT (patients in fractions)	6831
RT Elekta (Total no of fractions)	9233
<b>Transfusion Medicine</b>	<b>2017-18</b>
Blood Donation	2160
Component Preparation	6980

Blood Donation Camp	48
<b>Community Oncology</b>	<b>2017-18</b>
Volunteer Training Programme (ECDC)	34
Cancer Awareness Classes	16
Early Cancer Detection Camps	145
Screening Test	2932
<b>Onco-pathology</b>	<b>2017-18</b>
Histopathology	4912
Biopsy	3044
FNAC	844
Other Cytology	2502
BMA	632
Peripheral smear	759
<b>Imaging Services</b>	<b>2017-18</b>
X-ray	5742
U S G	1637
Digital Mammogram	2228
CT Scan	4151
MRI	1331

## DEPARTMENTS AND DIVISIONS

### Academic Departments

- 1. Department of Radiation Oncology**
  - 1.1. Radiation Oncology Division
  - 1.2. Radiation Physics Division
- 2. Department of Imageology**
- 3. Department of Clinical Haematology and Medical Oncology**
  - 3.1. Clinical Hematology Division
  - 3.2. Medical Oncology Division
  - 3.3. Division of Paediatrics/ Paediatric Oncology
- 4. Department of Surgical Oncology**
  - 4.1. Surgical Oncology Division
  - 4.2. Rehabilitation-Physiotherapy Speech and Swallowing therapy Unit
  - 4.3. Clinical Nutrition and Dietetics Unit
  - 4.4. Division of Gynaecology/ Gynaecologic Oncology
- 5. Department of Clinical Laboratory Services and Translational Research**
  - 5.1. Pathology Division
  - 5.2. Molecular Oncology Division
  - 5.3. Biochemistry Division
  - 5.4. Microbiology Division
  - 5.5. Blood Bank and Transfusion Medicine Division
  - 5.6. Genetics and Cytogenetics Division
- 6. Department of Cancer Registry and Epidemiology**
  - 6.1. Cancer Registry and Epidemiology Division
  - 6.2. Medical Records Division
  - 6.3. Health Information Technology Division
  - 6.4. Clinical Research and Biostatistics Division
- 7. Department of Community Oncology**
- 8. Department of Anesthesiology**
- 9. Department of Cancer Palliative Medicine**
  - 9.1. Cancer Palliative Medicine Division
  - 9.2. Psycho-Oncology Division
- 10. Department of Dentistry and Rehabilitation**

### Non academic Departments

- 1. Department of General Administration**
- 2**
  - 2.1. General Administration Division
  - 2.2. Hospital Administration
  - 2.3. Academic Division & Library and Information Science
  - 2.4. Public Relations and Clinical Services Division
  - 2.5. Accounts Division
  - 2.6. Purchase/ Stores Division & Pharmacy
  - 2.7. Human Resources and Establishment Division
  - 2.8. Security Division
- 3. Department of Oncology Nursing**
- 4. Department of Engineering and Maintenance**



# DEPARTMENT OF RADIATION ONCOLOGY



## Introduction

The department of Radiation oncology in MCC was established in the year 2005 with the installation and commissioning of Telecobalt machine. The department has grown currently to own two multienergy linear accelerators, Microseletron HDR brachytherapy, CT simulator, conventional simulator and telecobalt. Divisions of Radiation oncology and Radiation physics work in tandem to deliver the optimal care to patients. Radiotherapy plays a very important role in curing early stage cancer and in relieving symptoms and possibly prolonging life for patients with advanced cancers. Our efforts in the department have always been to offer optimal radiotherapy and comprehensive patient care. Optimal & efficient delivery of treatment not only requires the appropriate infrastructure but also well trained and motivated personnel. Fortunately we are blessed in having all these together.

## Existing Facilities

- 1) External Beam Radiotherapy-
  - a] Linear accelerators- Clinac Ix ( Varian) , Versa HD(Elekta)
  - b] Telecobalt
- 2) Brachytherapy
- 3) CT Simulator

## Newequipments Acquired

- 1) Upgradation of Varian – Eclipse planning system to version 13.7
- 2) Additional license for Eclipse planning system
- 3) Simulator –Imagin

## Activities & Achievements

Onsite training for Eclipse version 13.7 for Oncologists, Physicists, Dosimetrist and technologists on 24 .05.17 to 26.05.18

- 1) Dr.Prabhakar , Senior Physicist, Peter Mac Callum Cancer Centre, Victoria, Australia visited the department as guest faculty through the faculty programme conducted on 13/01/18
- 2) Five MSc Physics students completed their projects in the department under the supervision of physicists.
- 3) Sixth batch of BSc MRT students (KUHS) joined in 01/08/17

#### Services

Treatment Given	Number
<b>Patients treated with Radiotherapy</b>	<b>1902</b>
Treatment on Cobalt	Nil (decommissioned)
Palliative Treatments	962
Radical Treatment	940
<b>Treatment on Linear Accelerator</b>	<b>1902</b>
Number of VMAT	296
Number of IMRT	2
Number of 3DCRT	378
Number of Electrons	33
Number of SBRT	1
Number of Hybrid Arc	22
Treatment with HDR Brachytherapy	335
Intracavitary brachytherapy	320
Interstitial brachytherapy	15
Total number of cases planned on 4DCT	1581
Number of palliative cases	534
Number of curative cases	1047
Total number of cases planned on conventional simulator	397



## Projects

### Completed Projects

Sl. No.	Project Title	Principle Investigator
1	Estimation of lung dose and its association with pneumonitis following radiotherapy in breast cancer patients	Dr.Geetha M
2	Analysis of acute hematological toxicities of cervix treated with concurrent chemo radiation	Dr.Greeshma K.
3	Source strength verification and survey of HDR Brachytherapy unit	Mrs. Silpa Ajaykumar
4	Dosimetric Evaluation of out of field Measurement	Mrs.SilpaAjaykumar
5	Percentage Depth dose variation with field size	Mrs.Suja C A
6	A Dosimetric Study of Leipzig-style applicator with electron beam for the treatment of superficial malignancies	Mrs.Suja C A
7	Dosimetric study of small circular cutouts for electron beam therapy	Mrs.Resmi K Bharathan
8	A study to compare motorized wedge and enhanced dynamic wedge	Mrs.Resmi K Bharatan
9	Dosimetric study of cone defined stereotactic Radiosurgery fields with diamond and diode detectors	Mrs.Soumya N M
10	Output Calibration of Electron Beam	Mrs.Soumya N M

### Ongoing Projects

Sl. No.	Project Title	Principle Investigator
1	Assessment of financial burden in patients with head and neck cancer undergoing curative intent treatment	Dr. Geetha.M
2	Factors contributing to weight loss in patients on radiation therapy for head and neck cancers	Dr. Geetha.M
3	Organ at risk doses during high dose rate intra cavity Brachytherapy for cervical cancer-A dosimetric study	Dr. Vinin.N.V
4	Clinical outcome of palliative oral metronomic chemotherapy in head and neck cancer patients coming to a tertiary cancer centre	Dr. Vinin.N.V
5	Randomized Controlled Trial Assessing addition of neoadjuvant and maintenance oral metronomic chemotherapy to standard surgery and adjuvant therapy in stage III, IV operable oral cancers	Dr. Vinin.N.V
6	Is oral metronomic chemotherapy the way ahead for advanced head & neck cancer treated with palliative intent	Dr. Vinin.N.V

7	Comparison of two contouring methods of bone marrow and correlation with bone marrow toxicity in patients with carcinoma cervix receiving IMRT with concurrent chemotherapy- pilot study	Dr. Greeshma.K.E
8	Analysis of patients with rare uterine malignancies at a tertiary cancer center in North Kerala	Dr. Greeshma.K.E
9	Analysis of acute hematological toxicities of cervix treated with concurrent chemo radiation	Dr. Greeshma.K.E
10	A study on disease progression in non small cell carcinoma lung patients treated with definitive chemoradiation	Dr. ShoaibNawaz.P.N
11	Thyroid gland- evaluating the need for a dose volume constraint	Dr. Anindya Mukherjee
12	Retrospective evaluation of outcomes of neoadjuvant chemotherapy followed by radical surgery in adeno carcinoma esophagus	Dr. Anindya Mukherjee
13	Quantification of photon contamination for different electron energies	Mrs. SilpaAjaykumar
14	Assessment of depth dose variation due to introduction of inhomogeneous material	Mrs. SilpaAjaykumar
15	Output comparison of SRS cone and MLC shaped field	Mrs. Suja C A
16	Dosimetric impact of applicators in electron beam therapy	Mrs. Resmi K Bharathan
17	Output Calibration of Photon Beam	Mrs. Resmi K Bharathan

### Conferences/Seminar/Workshop

- Dr. Vinin participated in operational research course on research methodology in June 2017
- Dr. Vinin, Dr. Joneetha and Dr. Greeshma attended ICC conducted at Bangalore in Nov 2017. 2 poster presentations were made by Dr. Vinin and Dr. Joneetha
- Dr. Shoaib, Dr. Arun and Dr. Advait attended conference on Brachytherapy in March 2018
- Dr. Geetha participated in CREDO workshop conducted by TMH with ACCORD conducted at Leadership development academy at Lonawla, Mumbai in March 2018

## Staff

SI No	Staff	Designation
1.	Dr. Geetha.M	Associate Professor & Head
2.	Dr. Vinin.N.V	Assistant Professor
3.	Dr. Joneetha Jones	Assistant Professor
4.	Dr.Greeshma.K.E	Assistant Professor
5.	Dr. Shoaib Nawaz. P.N	Assistant Professor
6.	Dr. Arun P Narendran	Assistant Professor
7.	Dr. Nabeel Yahiya	Assistant Professor,
8	Dr. Anindya Mukherjee	Assistant Professor,
9	Mrs. Silpa Ajaykumar	Lecturer in Radiation Physics
10	Mrs. Suja.C.A	Lecturer in Radiation Physics
11	Mrs. Resmi K Bharathan	Lecturer in Radiation Physics
12	Mrs. Lisha Jose	Lecturer in Radiation Physics
13	Mr.ArunKumar.E.S	Dosimetrist
14	Mrs.SrijiSoman	Technician
15	Mr.RejinishKumar.O.A	Technician
16	Mrs.Rijisha	Technician
17	Mr.Nijeesh.P.T	Technician
18	Mr. Harshal. C.H	Technician
19	Mrs.Beena.P.K	Technician
20	Mrs. Dhayna.V	Technician
21	Mr. Faisal.A	Technician
22	Mrs. Gayatri	Technician
23	Mr. Sandeep Kumar	Attender/Mould Room Assistant
24	Mr. Sujith.T	Attender
25	Mrs. Sujatha	Staff Nurse
26	Ms.Rinsha	Staff Nurse

# DEPARTMENT OF IMAGEOLOGY



## Introduction

New Imageology block was inaugurated in 2008. In the initial phase, department acquired 4 slice CT scan and a Doppler machine. Later, the department acquired state of the art equipment like digital mammogram with 3D tomosynthesis, Digital radiography, C-arm, Maxio robot for guidance in interventional procedures, Radio frequency ablation machine etc. Recently department acquired high end ultrasound ( Toshiba Aplio 500) with facility for TRUS biopsy, contrast ultrasound, fusion imaging and multiorgan elastography. It also acquired the Automated Breast Ultrasound (iABUS by Episonica) , which is the first in India in public sector.

Department is in the expansion phase and the process is started for acquisition of new high end CT scan and interventional radiology DSA unit. New building is also under construction. Process for acquisition of new enterprise RIS- PACS has also been started. Curriculum for starting fellowship in onco-imaging and interventional radiology was prepared and referred for Scientific Advisory Committee approval.

## Existing Facilities

1. Multislice CT Scan
2. 1.5 Tesla MRI
3. Digital mammography with 3D Tomosynthesis
4. Ultrasonography with ABUS
5. Portable Ultrasonography
6. Digital Radiology
7. Conventional X-ray unit
8. Robotoic assisted Biopsy system

9. C-arm
10. Portable X-ray unit
11. MiniPACS
12. RFA system

### Activities and achievements

1. Completed the tender process of high end CT scan and Interventional radiology DSA and accessories.
2. Finalised the technical specification of enterprise PACS and started the tender process

### Clinical Services

The following are the statistics for the Department in the year 2017-2018

SI No	Items/Procedures	Numbers
1	No. of X rays	6546
2	Portable x ray	581
3	USG	1637
4	Mammogram	2226
5	CT	7337
6	MRI full study	1437
7	MR RT planning	177
8	MRI screening studies	399
9	USG guided biopsy	85
10	USG guided FNAC	65
11	USG guided aspiration	30
12	USG guided wire localization	36
13	USG guided pigtail insertion	2
14	CT guided FNAC/Biopsies	296
15	CT guided pigtail insertion	6
16	Stereotactic wire localization	6
17	Robot guided RFA	7
18	Robot guided FNAC/biopsy	7
19	Coiling	1
20	Barium studies	47
21	Gastrographin study	29
22	C arm procedures	2

## Conferences, Seminars, Workshop and presentations

### Dr. Satheesh Babu -

- Delivered a lecture “Is it eroded? Answering with images “ in DOST -2 (Demonstration of Surgical techniques -2 ) Management of mandible in Oral Cancer held on 25th November 2017 at Malabar Cancer Center, Thalassery
- Was invited as Faculty to 37th Annual Conference of IRIA Kerala held at MVR cancer center, Kozhikode on 10th and 11th of March, 2018 and delivered lecture on Current Imaging status in uterine malignancies.
- Attended ICH-GCP and schedule Y training at Malabar Cancer Center, Thalassery on 24th March, 2018 conducted by SMO connect clinical research services Pvt. Ltd.

## Research programmes

### Ongoing projects

1. Comparative diagnostic performance of sonomammogram and iABUS in breast lesion detection in women referred for screening to Malabar Cancer Center – A pilot study
2. Role of diffusion weighted magnetic resonance imaging in predicting treatment response following chemo radiotherapy in patients with advanced carcinoma rectum – A pilot study
3. Utility of dynamic contrast enhanced T1 weighted MRI in the assessment of uterine and vaginal recurrence after radiotherapy
4. Comparative analysis of contrast enhanced ultrasound and MRI in prediction of residual disease following unplanned excision of soft tissue sarcoma among patients treated at Tertiary Cancer Hospital in Northern Kerala.

### Completed projects

- Multiphase CT in the characterization of focal liver lesions – An institutional experience.
- CT guided lung biopsy – Diagnostic accuracy and complication rate.
- MRI for assessing cartilage erosion in Ca glottis – Radiological- pathological correlation.
- Two-dimensional or three-dimensional imaging for breast cancer screening? - An evaluation study of sensitivity and specificity from Kerala, India.

### Staff

Sl No	Name	Designation
1	Dr Satheesh Babu	Associate Professor
2	Sheena T P	Technician
3	Sindhu	Technician
4	Adarsh	Technician
5	Vini Raveendran	Technician
6	Nimmya Parameswaran	Technician
7	Muhammed Naseem	Technician
8	Jishna	Technician
9	Najeeb	Technician
10	Shabin	Technician
11	Srinsi	Technician

# DEPARTMENT OF CLINICAL HAEMATOLOGY & MEDICAL ONCOLOGY



## Introduction

The Department of Clinical Hematology and Medical Oncology is a composite department comprising of clinical hematology( manages both benign hematology and hematological malignancies), medical oncology which deals with solid tumor management, pediatric oncology/pediatrics and medicine. Medical oncology and hematology is the specialty of internal medicine that provides for the treatment of cancer and various blood disorders. The Department has the following divisions:

- Clinical Hematology
- Medical Oncology
- Medicine
- Paediatrics/Paediatric Oncology
- Existing Facilities:
  - Day care chemotherapy unit
  - Out-patient and In-patient services
  - Adult and pediatric bone marrow transplantation
- Academic activities:
  - Regular department academic program for fellowship trainees
  - Training for doctors and staff nurses from Health services
  - In house training for staff nurses.

### Conferences attended

- Dr.Vineetha attended Pediatric solid tumor workshop at TMH, Mumbai as delegate and presented oral paper:“Predictors of survival in children with OGS treated by Limb salvage surgery”
- Dr. Chandran Nair attended round table meeting at Aster Medicity, Kochi as faculty and presented the topic MRD in Myeloma
- Dr. Manuprasad attended ASCO updates at Calicut as faculty and participated in panel discussion on Carcinoma Endo metrium.
- Dr. Praveen Shenoy attended ASCO updates at Calicut as delegate.
- Dr. Chandran K Nair attended ASCO updates at Calicut as faculty and participated in panel discussion on advances in lymphoma.
- Dr. Manuprasad attended ASH update at MVR Cancer Centre and Research Institute, Calicut on 21/1/18 as Faculty and presented an abstract on PET in Hodgkin’s Lymphoma
- Dr. Praveen Shenoy attended ASH update at MVR Cancer Centre, Calicut on 21/1/18 as Faculty and presented an abstract on ALCYON Etrial.
- Dr. Manuprasad and Dr. Praveen Shenoy attended 38<sup>th</sup> ICON held at Cochin from 23<sup>rd</sup> to 26th March
- Dr. Jithin attended the National conference on Oncology nutrition at MCC and presented a topic on Nutrition in Pediatric Oncology
- Dr. Jithin attended SIOP-PODC conference on Nutrition in pediatric oncology at TMH Mumbai and presented a topic on Severe Mucositis in ALL
- Dr. Chandran K Nair attended ISCTR meeting at Vellore as delegate.

### Conference conducted

Conducted a conference on Pediatric palliative care in association with Department of Cancer Palliative Care, MCC and IAP Thalassery for pediatricians and palliative physicians. Dr. Jithin presented a topic on challenges in Pediatric Oncology.

### New facilities and Changes

1. First Matched unrelated donor hematopoietic stem cell transplant performed in the unit.
2. Pediatric oncology OPD started functioning in separate OPD room
3. Parent orientation programme in Pediatric oncology was introduced.
4. Pediatric oncology ward expanded from 6 beds to 12 beds
5. Play area for in-patients setup in pediatric oncology ward
6. Template based chemotherapy delivery in medical oncology (solid tumor division) was introduced.
7. OP file modified for pediatric cancer patients.
8. Pediatric nutrition assessment chart prepared by Dr.Jithin was included in case record.

### Statistics

Sl No	Item/procedure	Numbers
1	Total OPD-Clinical hematology + Pediatric oncology	11342
2	Total OPD Medical Oncology solid tumor division	15801
3	New cases-	842
4	Bone marrow studies	460
5	Lumbar puncture with Intrathecal methotrexate	35
6	Autologous Hemopoetic stem cell transplantation	15
7	Allogeneic Hemopoetic stem cell transplantation:	4
8	D.L.I:	2



## Training programmes

1. Dr Swetha and Dr Rafi completed one year fellowship in Clinical Hematology and BMT in August 2017
2. Dr Sharath and Dr Paul from Kerala Govt. Health Services was posted in the unit for one month each as part of their training programme in Oncology
3. Dr Muhammed Shafi completed 6 months of fellowship in Clinical Hematology and BMT in (July 2017 to December 2017)
4. Dr Ajmal, Dr Abdulla Manima and Dr Jameela from Kerala Govt. Health Services completed 5 weeks posting in the department (1 week each in Hematology and Medical Oncology OPD and 4 weeks in day-care chemo ward) as part of their in service training in Oncology
5. Dr Bibin and Dr Shahida (junior residents in transfusion medicine) were posted in the Clinical hematology division for 1 month.

## Publications

1. **Experience with the Use of Nilotinib in Indian Patients.** *Indian Journal of Hematology and Blood transfusion.* Manuprasad A, Ganesan P, Ganesan T S et al Oct 2017
2. **Hepatoblastoma: 16-years' experience from a tertiary cancer centre in India.** *Pediatric Hematology Oncology journal.* Manuprasad A, Ganesan P, Ganesan TS et al. December 2013
3. **Impact of early reduction in paraprotein on survival in transplant in eligible myeloma: Lesson from a tertiary cancer center in rural India.** *Journal of Cancer Research and Therapeutics.* Chandran K Nair, Vineetha Raghavan, Atanu Bhattacharjee, Anju R Kurup. DOI: 10.4103/jcrt.JCRT\_459\_17

## Research projects

1. Retrospective audit of Low grade lymphoma cases over the last five year period
2. Retrospective audit of Diffuse large B Cell lymphoma cases over the last five year period
3. Evaluation of the PD1 pathway in AML and MDS-A pilot study
4. Molecular dissection of pathways altered by different fusion transcripts in Chronic Myeloid leukemia
5. Clinical profile and survival analysis of children with Osteogenic sarcoma undergoing Limb Salvage Surgery
6. Short course adjuvant Transtuzumab-single institution experience.
7. Retrospective study of patients receiving palliative chemotherapy with Gemcitabine and NabPaclitaxel for pancreatic cancer.

## Special events

1. Children's day celebrations in November 2017 conducted at seminar hall, MCC
2. Christmas celebrations in pediatric oncology ward
3. A public awareness campaign was conducted in the occasion of International childhood cancer day on 15/2/18. A rally was conducted at Thalassery town, which were participated by the parents of children taking treatment at MCC. Information leaflets were distributed among the public. A special programme for creating awareness among public regarding the misconceptions around pediatric cancers were conducted using a traditional art form-Ottanthullal. It was conducted on sameday at Thalassery bus stand.
4. A panel discussion on pediatric cancers was conducted at IMA hall
5. Along with the monthly parent orientation program, birthdays of children with cancer were celebrated.

## Staff

Sl. No	Name	Designation
1.	Dr Chandran K Nair	Associate Professor & Head
2.	Dr Jithin T K	Assistant Professor
3.	Dr Praveen Kumar Shenoy	Senior Lecturer
4.	Dr Manuprasad	Senior Lecturer
5.	Dr Vineetha Raghavan	Assistant Professor
6.	Dr. Anju R Kurup	Lecturer
7.	Dr Shiljina K M	Lecturer

# DEPARTMENT OF SURGICAL ONCOLOGY



## Introduction

Department of Surgical Oncology had a lift in the academic scenario as DNB Surgical Oncology seat was approved by the National Board. The first DNB candidate, Dr. Vivek joined in May 2017. Dr. Shamna M and Dr. Adharsh Anand joined as Assistant Professors. The work for the third operation theatre was started.

## Existing Facilities

1. Outpatient and In-patient facilities
2. Two major Operation rooms
3. Endoscopy unit
4. Minor OT

## Statistics

### Major Surgeries Performed: 923

Sl No	Site	Number
1	Head and Neck	349
2	Breast	310
3	GIT	17
4	Urology	33
5	Gynecology	134
6	Bone & Soft tissue	72
7	Thoracic	8
8	Neurosurgery	0
	Total	923

## Out patients statistics

Clinics	New Patients	Follow Up patients	NMC
Head & Neck	937	10867	616
GI, Uro & Extremity (General Surgical oncology)	1409	9793	555
Gynaec & Breast	1169	9777	772
Total	3515	30437	1943

## Academic Activities

### Courses/Structured Training

1. DNB Surgical oncology
2. Fellowship in Head and neck oncology
3. Fellowship in Gynaecologic Oncology

The routine academic activities of the Department are

1. Monday : Case discussion
2. Tuesday to Friday : Short topic discussion
3. Saturday : Grand rounds

### Other training programmes conducted

1. Surgical skill training

### Training to students

1. Fellowship in Head and Neck Oncology: Sixth batch of fellowship in Head and neck oncology completed their course in July 2017 and Seventh batch of two students started their course in Aug 2017.
2. Training for MS students: Trained three MS (General Surgery) students from various Medical Colleges in Kerala.
3. Training for BASLP students: Trained 20 students for one month each, in speech & swallowing therapy

### Training

1. Trained 30 students during this period who had come for posting in the department.
2. Dr. Santhosh Kumar got trained in microvascular techniques from AIMS, Kochi in wet lab.

### Activities and Achievements

- DNB Surgical Oncology course started
- Dr. Nizam completed MCh in Surgical Oncology from Tata Memorial Hospital, Mumbai
- Dr. Dipin J was awarded with best paper in NATCON IASO 2017. He was selected for presentation in International association of Surgical Oncology conference.

## Staff

Sl No	Name	Designation
1.	Dr Satheesan B	Professor& Director
2.	Dr Sajith Babu	Asso Professor & Head
3.	Dr Sampada Dessai	Asso Professor
4.	Dr Nizamudheen	Assist Professor
5.	Dr Adarsh Darmarajan	Assist Professor
6.	Dr Shamna M	Assist Professor
7.	Dr Adarsh Anand	Assist Professor

## PHYSIOTHERAPY UNIT

### Introduction

The physiotherapy section is equipped for rehabilitation of patients on treatment and follows up. It was established in 2010-11 period.

### Academic Activities

- Participated as delegate in “Pre –conference workshop on Breast Cancer Rehabilitation, International Conference On “Multidisciplinary Approach Towards Cancer Rehabilitation” CAN –REHAB 2017” held at the Tata Memorial Hospital, Mumbai on April 7, 2017
- Participated as delegate in International Conference On “Multidisciplinary Approach Towards Cancer Rehabilitation ” CAN –REHAB 2017” held at the Tata Memorial Hospital ,Mumbai on April 8 & 9, 2017
- Participated as delegate as DOST -1, Demonstration Of Surgical Techniques in Oral Cancers, 17 May 2017
- Participated as delegate in Third Annual Meeting Of KASO “update on colorectal cancer” on July 9,2017
- Participated as delegate in National Conference on Psycho oncology –MIND CAN-2017, A Psycho –social Perspectives In Cancer Care On October 21, 2017.
- Participated as Resource Person in pink ribbon day programme in MCC “Role of Physiotherapy In Breast Cancer Rehabilitation “
- Participated as Resource Person in National conference on Oncology Rehabilitation. “Physiotherapist –A Key player in Head &Neck Cancer Rehabilitation”. Adayar Cancer Institute ,Chennai on November 18,2017
- Participated as delegate in National Conference On Oncology Nutrition “ ONCON -2017” On November 11,2017
- Participated as delegate in “DOST -2, Demonstration of Surgical Techniques-Management of Mandible in Oral Cancer”, November 25, 2017.
- Participated as delegate in “TOSHI :Touching young lives ....,”CME On Pediatric Palliative Care, On January 14,2018
- Participated as delegate in “ CURIE : Continuing Nursing Education On Radiotherapy & Nursing Aspects” On February 18,2018
- Educational programme for Onco –Nursing students (first batch) Role Of physiotherapy In Oncology

## Statistics

Sl No	Items	Number
1	Total Number of patients seen in OPD	992
2	Total Number of patients seen in IP	2919

## Staff

Sl No	Name of staff	Designation
1	Ms.Roopa	Physiotherapist

## SPEECH AND SWALLOWING UNIT

### Introduction

Speech Therapy division in MCC provide expert swallow and speech pathology services on both inpatients an outpatient basis.

### Clinical Services Statistics

Sl. No	Item/services	Number
1	Speech consultation	1404
2	Swallowing therapy	289
3	Swallowing assessment	189
4	Speech therapy	89
5	FEES	41
6	Videofluoroscopy	18

### Conferences, seminar, workshops

1. Participated as a delegate in the 1st international conference on multidisciplinary approach towards cancer rehabilitation CAN-REHAB 2017 held at the Tata Memorial Centre, Mumbai on 8th& 9th April 2017.
2. Attended the workshop on “evaluation and management of swallowing disorders in head and neck cancer” in the “international conference on multidisciplinary approach towards cancer rehabilitation held at Tata memorial Mumbai on 8 and 9th April 2017.
3. Participated as a delegate in the dysphagia management in head and neck cancers, organized by department of head and neck surgery and department of otorhinolaryngology, which was held at the Amrita institute of medical science on the 1st February 2018.
4. Participated as delegate as DOST -1, Demonstration of Surgical Techniques in Oral cancers, 17 May 2017

5. Participated as delegate in Third Annual Meeting of KASO “update on colorectal cancer” on 9 July 2017
6. Participated as delegate in National Conference on Oncology Nutrition “ONCON -2017” on November
7. Participated as delegate in “DOST -2, Demonstration of Surgical Techniques-Management of mandible in oral cancers 25 November 2017

## Presentations

Invited speaker in the Dysphagia Management in Head and Neck Cancers, organized by department of head and neck surgery and department of otorhinolaryngology, at the Amrita Institute of Medical Science on the 1st February 2018.

## Educational programmes and courses

1. Internship postings to the Speech and Hearing students from Marthoma College of Special Education – KASARGOD from 20/ 9/ 2012 onwards. From 2017 onwards, students from Baby Memorial Hospital-Calicut are permitted to do their internship.

## Staff

Sl No	Name of Staff	Designation
1	Shri.Aneeth	Speech and Swallowing therapist

## CLINICAL NUTRITION AND DIETETICS UNIT

### Introduction

Dietetics section was introduced in MCC in 2011-12 period and it provides professional support to both in-patients and out-patients.

### Academic activities and conference

1. Organized National Conference On nutrition Oncology ONCON -2017, On November 11, 2017
2. Participated as Resource Person “ Cancer Prevention –Role Of Diet” National Conference On nutrition Oncology ONCON -2017, On November 11, 2017
3. Participated as Resource Person “Nutritional Support In Bone Marrow Transplant” , ASTER MIMS on November 18, 2017
4. Participated as delegate in Pre –conference workshop on Breast Cancer Rehabilitation , International Conference On “Multidisciplinary Approach Towards Cancer Rehabilitation ” CAN –REHAB 2017” held at the Tata Memorial Centre, Mumbai on April 7, 2017
5. Participated as delegate in International Conference On “Multidisciplinary Approach Towards Cancer Rehabilitation ” CAN –REHAB 2017” held at the Tata Memorial Centre, Mumbai on April 8 & 9, 2017
6. Participated as delegate in National Conference on Psycho oncology –MIND CAN-2017, A Psy-

cho –social Perspective In Cancer Care On October 21, 2017.

7. Participated as Resource Person in pink ribbon day programme in MCC “Nutritional Management In Breast Cancer” October 2017
8. Participated as delegate in Third Annual Meeting Of KASO “update on colorectal cancer” on July 9,2017
9. Participated as Resource Person in “ Nutritional Management Of Radiotherapy Patients” CURIE : Continuing Nursing Education On Radiotherapy & Nursing Aspects” On February25,2018
10. Participated as delegate in “DOST -2, Demonstration Of Surgical Techniques-Management of Mandible In Oral Cancer, November 25, 2017.
11. 10thInternational clinical Nutrition update of Apollo Hospital at Mumbai at April 20, 2017
12. Attended as a Resource Person, presented a paper on Subjective Global Assessment at IDA-CON -International conference of Indian Dietetic association held at Kolkata on December 18 to 20, 2017.

### **Staff**

<b>Sl No</b>	<b>Name of Staff</b>	<b>Designation</b>
1	Ms.Reena	Dietitian



# DEPARTMENT OF CLINICAL LABORATORY SERVICES AND TRANSLATIONAL RESEARCH



## Introduction

The department is comprised of divisions of microbiology, biochemistry, transfusion medicine, molecular oncology, genetics and cytogenetics and onco-pathology. The department is headed by onco-pathology division. The department is involved in clinical care, academic activities and research.

## Division of Pathology

### Activities & Achievements

### New Equipment's & facilities

1. Purchase of block and slide filing cabinets
2. Purchase demand of new list of IHC antibodies

### Statistics of Total Number of Cases

Sl.No.	Procedure	No. of Cases
1	Small biopsy	2682
2	Radical specimen	1248
3	Biopsy second opinion	2402
4	Peripheral smear	1288
5	BMA & BMT(Bone marrow)	627
6	Bone marrow second opinion)	158
7	Fine needle aspiration cytology	1102
8	Fluid cytology	842
9	Second opinion cytology	550
10	Gynaec Cytology	300

## Academic Programmes

1. Fellowship programmes in Oncopathology & Head & Neck Oncopathology for MD.Pathology & MDS Oral Pathology candidates, respectively.
2. Training for Post graduate students –MD.Pathology & MDS. Oral Pathology from different government & private institutions.
3. Training programmes for BSc.MLT final year students of government & private medical colleges and paramedical institutes of Kerala
4. Academic sessions for residents and trainees- 70 no:

## Publications

1. Prognostic efficiency of Clinico-pathologic scoring in predicting lymph node metastasis in oral squamous cell carcinoma-Dr.Sangeetha K, (in collaboration with the Union for Tuberculosis & Lung diseases)-being reviewed in Journal of Oral & Maxillofacial Pathology
2. Clinico-pathological profile of salivary gland tumors: initial experience at a cancer centre in South India Sithara Aravind, Sangeetha K Nayanar Bithun Balan.K, Sujith Kumar M, Suriy Salih. Indian Journal of Applied Research Volume - 7 | Issue - 7 | July - 2017 | ISSN - 2249-555X | IF: 4.894 | IC Value: 79.9

## Conferences, Seminars, Workshops & Presentations

1. Conducted Continuing laboratory education, 3rd edition –“Automation in Pathology”- March 2018
2. Dr.Sangeetha K. Nayanar presented Bethesda system of reporting thyroid cytopathology as Faculty at Thyroid cancer conclave organized by Lake Shore hospital, Kochi, April 2017
3. Dr.Sithara, Dr. K J Philip & Dr. Sajith K S attended and presented papers on Breast Pathology in International CME on Breast Pathology at Bangalore Medical College, July 2017
4. Dr.Sangeetha as Faculty for Lung Tumors at Calipath 2017 Post graduate training in Nov 2017
5. Dr. Aswathy attended and presented paper on Mixed Mullerian Tumors of Uterus at International CME in Hyderabad in Nov 2017
6. Dr Philip KJ attended and presented paper on Intraoral FNA at the National Cytology Conference Nov 2017
7. Dr.Sangeetha & Dr. Noushad attended and presented poster on Lung Adenocarcinoma- correlation between IHC and EGFR profile- at International Symposium –on Immunohistochemistry- Tata Medical Centre, Kolkata Jan 2018
8. Dr.Sangeetha K N attended training in FISH technique at Department of Molecular Pathology, Tata Memorial Hospital-March 2018

## Research Projects

1. Clinicopathologic correlation between Microsatellite instability & Colorectal cancers-an approach by IHC and molecular testing-Dr.Sangeetha K, Dr.Noushad A, Dr.KJ Philip, Dr.Deepak Roshan

2. Histopathological and immunohistochemical appraisal of oropharyngeal squamous cell carcinoma cases from a tertiary cancer centre of south India- Dr.Deepak Pandiar, Dr.Sangeetha K Nayanar
3. Appraisal of Soft tissue tumors cases at a cancer centre in South India- Dr. Vivek Nair, Dr.Sangeetha K Nayanar
4. Correlation of histopathologic, immunohisto-chemical and EGFR mutation status in pulmonary adenocarcinoma-Initial experience in a tertiary cancer centre-Dr.Noushad Aryadan,Dr. Sangeetha K Nayanar
5. Clinico pathologic pattern of central nervous system tumors- 5 year retrospective study at a cancer centre-Dr.Sunitha G, Dr.Sithara Aravind
6. Spectrum of cervical cytologic patterns in high risk groups-experience from early cancer detection camps by a cancer centre in North Malabar Region of South India-Ms.Sabna Dev, Dr.Sangeetha K Nayanar
7. Molecular classification of Breast Cancer using IHC markers and a comparison of clinico-pathological features and survival-Dr.Sajith KS, Dr.Sangeetha K Nayanar

## Staff

SI No	Name	Designation
1.	Dr.Sangeetha.k.Nayanar	Professor & HOD
2.	Dr.Sithara Aravind	Associate Professor
3.	Dr.Aswathi.k	Assistant Professor
4.	Dr.K J Philip	Assistant Professor
5.	Dr.Noushad	Assistant Professor
6.	Sabna Dev. S.K	Cytotechnologist
7.	Nimi. G.K	Cytotechnologist
8.	Soumya. V.K	Lab.Technician
9.	Biji	Lab.Technician
10.	Reena K C	Lab assistant

## BIOCHEMISTRY DIVISION

### Introduction

MCC clinical lab has the facility to do all the biochemical as well as hematological assays.

### Major Equipment and Facilities

1. Vitros fully automated biochemistry analyzers two
2. Access 2 (Beckman Coulter) tumor marker analyser
3. Minividas Cardiac Analyser.
4. Beckman Coulter CBC analyzers- two
5. CRP analyser (Alere Afmion AS100).



### New Projects/ developments

Clinical lab started 14 new special tests including CRP quantitative analysis. Serum Vitamin D, pro calcitonin, Troponin I, Myoglobin, CK-MB, NT-proBNP, D-Dimer Exclusion, CMV Ig G, CMV Ig M, Beta 2 microglobulin, and HS Troponin.

### Research projects

1. Evaluation of absolute lymphocyte count and lymphocyte monocyte count on b cell and T cell lymphomas- A retrospective study
2. A retrospective study on the correlation of serum CA 125 to the stage, grade and survival of patients with ovarian cancer at a tertiary care cancer centre

### Academic Programme Conducted

Continuing laboratory educational programme (one day) conducted in January for students and teachers from paramedical colleges and lab technicians from other labs. Title was 'Multidisciplinary approach to the good clinical laboratory practice'. There were more than 75 students and lab personals from various colleges and clinical labs Participated in the seminar.

Conducted a class for lab technicians on 'lab safety' as a part of NABH training

### Clinical Statistics

Sl No	Items/services	Number
1	Heamatology	40000
2	Biochemistry	504000
3	Urine analysis	1850
4	Tumor markers	6700

### Staff

Sl No	Name	Designation
1	Dr. Sindhu E. R.	Lab in charge
2	Mrs. Mini	Lab Technician
3	Mrs. Namitha	Lab Technician
4	Mr. Anish	Lab Technician
5	Mrs. Dhanya Prabha N	Lab Technician
6	Mrs. Aneesha	Lab Technician
7	Mrs. Sinsha NP	Lab Technician
8	Mr. Arun Manohar	Lab Technician
9	Ms. Ajisha	Lab Technician
10	Mrs. Akhila	Lab assistant

## MICROBIOLOGY DIVISION

### Introduction

The Division of Microbiology has bacteriology, virology and mycology sections. Automated state of the art equipment is available for blood cultures, and molecular diagnostics. The quality systems are compliant with the ISO 15189 standard guidelines. The department provides services for environmental testing and water testing in the hospital infection control. Implementation of best practices for infection control including surveillance of healthcare associated infections is under the scope of Microbiology. Microbiology division is heading the all important Hospital infection control program. For which various activities are undertaken to minimize (reduce) the rates of infection thereby providing for a safe environment to the patients as well as to the Staff.



### Facilities

The Division offers specialized diagnostic services in the areas of:

- Bacteriology
- Mycology (Fungal infections)
- Mycobacteriology (Tuberculosis)
- Virology:
- Serology for viral and bacterial infections.
- Molecular diagnostic methods for viral infections.

### Statistics

Total No. of Samples: 5273

### Samples Details

S. No	Sample Type	Sample Number
1	Urine	1375
2	Blood	1504
3	Respiratory(Sputum, throat swab, BAL) Pus (wound Swab/ swab/ dead tissues/ Exudates)	1250
4	AFB Staining	171
5	Gram Staining	139
6	Fungal culture	40
7	KOH Mount	53
8	Environmental Swabs	447
9	Serology	89
10	Staff free investigation	9
11	Blood bag quality check	101
12	CMV PCR(Molecular diagnosis)	90
13	EBV PCR(Molecular diagnosis)	5

## **Conferences, Seminar, Workshop and Presentations**

### **Workshop Attended**

1. Dr. R.Parthiban attended “Advanced hands on training in PROTEOMICS involving MALDI and LC- MS / ANALYSIS” on July 31st – August 3rd at Adyar Cancer Center, Chennai.
2. Dr. Sajani Samuel attended workshop on Anaerobic bacteria in oral Health and Stem Cells in Dentistry organized by Department of Microbiology, Mahe Institute Of Dental Sciences And Hospital, Mahe on 6th October 2017.
3. Dr. Sajani Samuel, attended training programme on “ Quality Management Systems and Internal Audit in Medical Labs as per ISO 15189- 2012” held at KREA Chennai from 26th October to 29th October 2017.
4. Mrs. Ramitha, attended workshop on Anaerobic bacteria in oral Health and Stem Cells in Dentistry organized by Department of Microbiology , Mahe Institute Of Dental Sciences And Hospital, Mahe on 6th October 2017.
5. Mr. Deepak Omanakuttan, attended workshop on Anaerobic bacteria in oral Health and Stem Cells in Dentistry organized by Department of Microbiology, Mahe Institute Of Dental Sciences And Hospital, Mahe on 6th October 2017.

### **Conferences, Seminar & Presentations**

Dr.R.Parthiban delivered special lectures on

1. “MULTIDRUG RESISTANCE”. in International symposium on “CURRENT SCENARIO IN LIFE SCIENCES”. Department of Microbiology, Bharathidasan University on 14-09-2017.
2. “ANTIBIOTIC RESISTANCE- PANDEMIC OF TOMORROW” International seminar on “CURRENT TRENDS IN LIFE SCIENCES”. Kandaswami Kandar’sCollege, Periyar University on 13-10-2017.
3. “RISK MANAGEMENT IN GOOD CLINICAL LABORATORY PRACTICE”. Continuing Laboaraory Education “MULTIDISCIPLINARY APPROACH TO THE GOOD LABORATORY PRACTICE” conducted by. Department of clinical laboratory services and translational research at Malabar Cancer Centre on 20-01-2018.

### **Research Project Programmes**

1. Dr.R.Parthiban, co-principal investigator for Ph. D Dissertation work entitled “Studies on the prevalence of opportunistic microorganisms in oral cancer patients - a microbiome approach”
2. Dr.R.Parthiban, principal investigator for research work entitled “Incidence of Human Papilloma virus (HPV) types in lung cancer patients at a tertiary care cancer centre at north Kerala”.
3. Dr.R.Parthiban, Principal investigator for research work entitled “Phenotypic detection of Metallo-Beta Lactamase (MBL) producing Enterobacteriaceae and their prevalence in a tertiary care cancer centre”.
4. Dr.Sajani Samuel, Principal investigator for research work entitled “prevalence of Aerobic bacteria and their antibiotic sensitivity pattern causing respiratory infections among cancer patients in tertiary care centre”
5. Dr.M.Saravanan, Principal investigator for research work entitled “Microbial sepsis in a tertiary cancer centre: microbiological spectrum and antimicrobial susceptibility profiles”.

## Staff

SI No	Name	Designation
1.	Dr. Gufran Ahmed	Visiting Consultant
2.	Dr. R.Parthiban	Associate Professor
3.	Dr. Sajani Samuel	Assistant Professor
4.	Dr. M.Saravanan	Lecturer
5.	Mrs. Ramitha	Lab Technician
6.	Mr. Deepak Omanakuttan	Lab Technician

## BLOOD BANK AND TRANSFUSION MEDICINE DIVISION

### Introduction

The Division of Transfusion Medicine (Blood Bank) has state of art facilities catering patients requiring blood transfusion in and around Thalassery. The Blood Bank provides quality blood products to patients by using latest technology for blood collection, processing and testing. For the last 4 years, blood is being issued as only blood components (100%). The blood bank has latest apheresis equipments for collecting single donor platelets (SDP).

The Blood bank is equipped with latest technology for blood irradiation, leuco-depletion, washed blood products etc.

In addition to routine blood bank activities, blood bank supports bone marrow transplant program, facilities for HLA Typing, Flow Cytometry, The blood bank participates in EQAS program organized by BEQAS, Jaipur for blood bank activities.



### Facilities

1. 24 x 7 Blood Bank
2. Blood Components – Packed Red cells, Platelet concentrate, Fresh Frozen Plasma, Cryoprecipitate
3. Apheresis – Platelets
4. HLA typing
5. Flow cytometry
6. Stem Cell Collection and Cryopreservation
7. Irradiation of blood components

### Activities and Achievements

1. To minimize preventable blood transfusion reaction, the blood bank continues in preparing buffy coat depleted blood components using automated blood component extractor equipment for our hospital patients.
2. Most SDP units were suspended in Platelet Additive Solutions for minimizing transfusion reactions.
3. HLA typing for bone marrow transplantation was performed on a routine basis.
4. Our blood bank continues to issue blood only in form of blood components (100%).
5. Flow cytometry investigations for hematological malignancies and bone marrow transplantation

## New Equipment acquired

Central temperature monitoring system to maintain cold chain for blood bags

## Statistics

SI No	Services/Items	Numbers
1.	whole blood donations	4455
2.	apheresis platelet donations	341
3.	voluntary outdoor blood donation camps	39
4.	Total blood Components Issued	8407 units

## Conference, Seminar, Workshops and Presentations

### Workshop

1. Dr. Mohandoss went as faculty for JHAKAAS 2017 postgraduate training program for Transfusion medicine PGs at JIPMER, Puduchery from 17.2.17 to 19.2.17
2. Blood Bank organized two days Hands on Workshop in Apheresis – Theme: Plateletpheresis for Medical Officers from Kerala on 06/05/17 & 07/05/17
3. Blood Bank organized one day Hands on Workshop in Apheresis – Theme: Plateletpheresis for Lab Technicians from Kerala on 03/06/17
4. Blood Bank organized 3 days training program for staff from Malabar Hearts Super Speciality Hospital, Kottakkal in Blood Storage Centre from 08.10.17 to 10.10.17
5. Ms. Savya, Blood Bank Counselor participated in training program on counseling blood donors organized by NACO/NBTC as part of CDC/CMAI QMS BB project at CMC, Vellore from 21.8.17 to 25.8.17
6. Dr. Mohandoss attended 10th TCS meeting and workshop on applications of flowcytometry in Health and Disease organized by RCC, SCTIMST, RGCB Trivandrum, 28.10.17 to 31.10.17 and presented “Mimickers in Acute Promyelocytic Leukemia by Flowcytometry”

### CME & Presentations

- Dr. Mohandoss attended 26th ISBTI Kerala Chapter CME at IMA Kollam, and delivered talk on “Rationale Use of FFP and Cryoprecipitate” on 26.2.17
- Dr. Mohandoss attended Technoscan 2017 Conference at MCC, Thalassery on 18.3.17 to 19.3.17
- Dr. Mohandoss attended Symposium on HLA Typing organized by Dept. of Transfusion Medicine, CMC, Vellore from 25.9.17 to 26.9.17

### Staff

SI No	Name	Designation
1.	Dr. Mohandoss	Medical Officers
2.	Mr. Sabeesh	Technicians
3.	Mr. Shibin	Technicians
4.	Mr. Anoop Joy	Technicians
5.	Mr. Sajeesh	Technicians
6.	Mrs. Thahira	Technicians
7.	Mrs. Maya	Nursing Staff
8.	Mr. Arun	Lab Attender



## GENETICS & CYTOGENETICS AND MOLECULAR ONCOLOGY DIVISION

### Introduction:

Division of Genetics and Cytogenetics is mainly focusing to understand the molecular mechanism of tumorigenesis, metastasis and drug resistance of cancers. Division is in a process of development and establishment. The major research direction of division for “bench to bedside” are following:-

- To explore the molecular mechanisms of cancer; the research fields include genomics, proteomics and signal transduction pathway.
- To understand the genetic factors associated treatment outcome of cancer patients, such as drug resistance and drug toxicity and it will help in developing personalized therapy system.



Along with molecular research to understand biology of tumorigenesis, Division is also involved in the molecular diagnosis. Presently, translocation analysis of BCR-Abl and PML-RARa are done routinely. Shortly, mutation analysis of genes will be started.

Division is also focused on the human resources development by providing short-term training for BSc, MSc, life Science and B Sc MLT students and dissertation works for MSc/MD/MDS students.

Rajyasabha MP in Kannur Shri. K.K. Ragesh magnanimously helped the institution to develop state of Genetics lab with the assistance of MPLAD. Using the facility we have sequenced 12 breast cancer patients with high risk association for hereditary. As part of understanding the genetics of oral cancer we have analysed the genetics profile of 33 oral cancer patients. Based on that a project is sanctioned by ICMR for studying the genetic alteration of oral cancer and precancer

### Test done

1. Quantitative BCR-Abl
2. Qualitative BCR-Abl
3. Qualitative PML-Rara
4. EGFR Mutation analysis
5. JAK2 Mutation analysis

### Conferences, Workshops and Training

#### Workshop

1. Hands on workshop on molecular techniques in clinical perspective

The division conducted three days Hands on workshop on molecular techniques in clinical perspective

Two internal faculties participated in the hands on workshop (Dr (HOD Dept of CLS&TR); Dr. (Dept of ROG); and externals candidate from JIPMER, TMH, Medical College & Maulana Azad Medical College)

### Research Projects

1. Evaluation of Cytotoxic activity of Lipopeptide Kannurin, Amrutha K P Kannur University
2. Identification of BRAF and PIK3CA mutation in oral carcinoma, Senobia B, Kannur University
3. Analysis of expression pattern of PKM1/PKM2 Isozymes and MUC – I oncoprotein in chronic myeloid Leukaemia, Aneesha PS, Kannur University

## Grants and Schemes

Ongoing a grant of 23 lakhs from KSCSTE , Govt of Kerala for the project “ Molecular dissection of pathways altered by different fusion transcripts in CML “

## Conferences

1. Dr Deepak Roshan VG- Invited talk at Radiation Biology & Health Sciences Division Bhabha Atomic Research Centre, Mumbai-400085 on 2nd Nov 2017 topic “Genomics in personalized cancer treatment”
2. Dr Deepak Roshan V G Invited talk at one day seminar on Molecular diagnostics on 27th February, 2018, in the Department of Biotechnology, University of Kerala. topic “Next Generation Sequencing in personalized Cancer therapy -Achievements and Challenges”

## Staff

Sl No	Name	Designation
1	Dr. Deepak Roshan VG	Assistant Professor
2	Dr Renjith P Nair	Lecturer
3	Vincy Augustin	Lab technician
4	Sreeja Kothath	Lab Asistant

# DEPARTMENT OF CANCER REGISTRY & EPIDEMIOLOGY



## Introduction

The Department of Cancer Registry systematically collects, stores, summarizes, and distributes information about cancer patients who are treated in MCC or live in a particular geographic area (Kannur, Kasargod and Mahe). These data describe the patient and the disease. Data collected include patient demographic information, cancer identification, diagnostic procedures, cancer-directed treatment, and survival. Malabar Population Based Cancer Registry:

The Malabar Population Based Cancer registry was launched in 2014 for three districts Kannur, Kasargod and Mahe. Population-based cancer registries seek to collect data on all new cases of cancer/mortality occurring in a well-defined population. As a result, and in contrast to hospital-based registries, the main objective of this type of cancer registry is to produce statistics on the occurrence of cancer in a defined population and to provide a framework for assessing and controlling the impact of cancer in the community. During this period, the department published the Ist Malabar Population Based Cancer Registry Report for the year 2014 and the report released by the Honorable Health Minister Smt. Shylaja teacher on 30th September 2017.

## Patterns of Cancer and Survival Studies

Surveillance programme on cancers of the breast, cervix, and head and neck patients reporting to the MCC in collaboration with NCRP was started 2013. For this project, the department monitor the patient's health status at periodic intervals. A total of 1729 breast cancer, 413 cervix cancer and 2623 Head and Neck Cancer was included in the study from the year 2013 to 2015.

## Lifestyle and Cancer

To assess the epidemiological evidence on diet and cancer and to make public health recommendations, the department started the project titled "Lifestyle and Cancer".

## Conference/Seminar/Workshop/Training

1. The department hosted the two day workshops on Research Methodology conducted by the Kerala University of health sciences on 25.04.2017, 26.04.2017 and 21,22, January 2018. Smt. Bindu & Smt. Maya Padmanabhan presented the topics sample size determination, Introduction to variables and Data Management.
2. Dr. Saina Sunilkumar and Smt. Bindu attended the XXXIII Annual review meeting of the National Cancer Registry Programme at Amrita Institute of Medical Sciences, Kochi, from 28/11/2017-30/11/2017) and Dr. Saina Sunilkumar presented a topic on “Involvement of community in cancer registry- a novel concept of community involved cancer registry model through local self-government level by a tertiary cancer centre in northern Kerala”
3. Dr. Saina Sunilkumar attended One day sensitization programme on HBCR on 12/01/2018 (For PI & Co-PI) at NCDIR/ICMR, Bengaluru.
4. The ICMR project staff Mr. Nijin P and Smt. Subina K attended Two day sensitization workshop for the centres using HBCR-DM-SOR for the project staffs under HBCR/POCSS project on 19/03 & 20/03/2018, at NCDIR/ICMR, Bangalore.
5. The faculties and PBCR staff attended one day workshop on population based cancer registries on 26/03/2018, at NCDIR/ICMR, Bangalore.
6. Dr. Saina Sunilkumar attended 2nd Indian cancer congress at Bangalore from 8/11/2017 to 12/11/2017 and presented a poster on Cancer patterns, risk habits, treatment, and follow up rate of tribal at a tertiary cancer care centre in Northern Kerala, India- A retrospective analysis

## Research Activities

- Hospital Based Cancer Registry
- Malabar population Based Cancer Registry
- Patterns of care and Survival studies on cancer of cervix, breast and head & neck
- Lifestyle & Cancer
- Cancer patterns, risk habits, treatment, and follow up rate of tribal at a tertiary cancer care centre in Northern Kerala, India -A retrospective analysis.
- ATHIJEEVANAM Project at Nileshtar block – community involved cancer registry. Data collection from 2014-2016 incidence/mortality year –wise. Technical support-software, analysis completed and report published.

## Publications

- Hospital Based Cancer Registry Report 2015
- Malabar Population Based Cancer Registry Report 2014
- Community Involved Cancer Registry Report for Nileshtar Block Panchayath.
- Abhayam News letter (4 editions for the year 2016 & March '17):. Chief Editor: Dr. B. Satheesan, Editorial team: Dr. Saina Sunilkumar, Bindu T, Harish Babu, Sobith VK & Sheena E

## National breast cancer awareness day-Pink ribbon day-

- Breast cancer awareness month was observed by conducting a seminar for patients undergoing treatment presently and those who are on follow up in seminar hall on 20/10/2017.
- National breast cancer awareness day (pink ribbon day) was observed on 21/10/2017 by conducting classes for the ASHA workers at conference hall.
- FM radio and Akashvani -Talk by Thejus president and secretary and convener and co- convener.

### International women's day-on 08/03/2018

- Honoured a Aaralam Panchyath member Mrs. Rehiyanath who brought about a change in the life of tribal population in Aaralam especially the tribal suicidal rate.
- Talk on rights of women in hospital by chief guest Adv. Preethi Parambath.
- Actions to make Malabar cancer centre as a woman friendly hospital was initiated on International women's day.

### Grants & Schemes

Funded Project of NCRP, ICMR-Hospital Based Cancer Registries Data Management Software

Sl. No.	Letter No. and Date	Amount
1	NCDIR/HBCR-DM/15/2017/1663 dated 12 <sup>th</sup> December 2017	5,00,000
2	NCDIR/HBCR-DM/15/2017/2647 dated 9 <sup>th</sup> March 2018	1,38,000

### Staff

Sl No	Name	Designation
1	Dr Saina Sunilkumar	Lecturer,HOD i/c
2	Bindu T	Lecturer in Biostatistics
3	Ratheesan K	Lecturer in Biostatistics
4	Prachith K S	Coding Clerk

## HEALTH INFORMATION TECHNOLOGY DIVISION

### Introduction

Health Information Technology Division under Department of Cancer Registry and Epidemiology is commenced in the year 2012. In a short working span, the division started the development of healthcare related software to extend support to various sections

The main responsibilities of the division are to provide technology vision and leadership in the development and implementation of the organization-wide information technology (IT) program, the planning and implementing of information systems to support both clinical and business operations, technical support for implementation, operations etc and maintenance of both hard and softwares.



### Major Activities & Achievements

- Implemented Phase-I of E-Hospital Software, an Integrated Hospital Information and Management System of National Informatics Centre. Phase-II implementation is in progress.
- Implemented Virtual Tumor Board in association with National Cancer Grid (NCG).
- Research collaboration with C-DIT in the area of Health Information Technology

- Research collaboration with NILET, Calicut in the area of Big data analytics for bioinformatics, mobile apps for patient care management, (AI based) image processing for medical diagnostics, Electronics and IT solutions in medical field, etc.
- Implemented mobile app and cancer mapping software for Malabar Population Based Cancer Registry.
- Developed e-Dietician software in research collaboration with Healthcare Technology Innovation Centre (HTIC), Chennai.
- Developed and Implemented E-Palliative Software in research collaboration with C-DIT.
- Implemented National Knowledge Network (NKN) connectivity at MCC.
- Advanced Diploma in Health Information Technology Course (MEDIT) in Collaboration with C-DIT, Thiruvananthapuram.
- Aware & Awake: Online Cancer Awareness Project in association with National Service Scheme, IHRD and funded by V-guard Industries Ltd.
- Providing Computer Hardware, Network and Software Maintenance and support
- Updating and Maintaining a dynamic website for MCC-www.mcc.kerala.gov.in
- Implemented e-Procurement Mission Mode Project of Govt. of Kerala at MCC
- Laboratory equipment interfaced with e-Hospital Software.
- Server and Database Administration, Management and Maintenance
- Managing Telemedicine facilities
- Implemented Online Career Application and Online Examination facilities
- Official E-mail service with SMS facility implemented for all Employees.
- Online Birth & Death Registration in association with IKM.
- Online OPD Registration using ORS Portal of Govt. of India.
- New Computer Training Lab with 30 Systems, Interactive Projector and Network.
- New ID card (Proximity Card) for Employees and biometric punching system.
- Two smart classrooms
- Providing Academic Project support for MCA, BTech, M.Sc. IT, M.Sc. Computer Science, BCA, B.Sc. Computer Science, B.Sc. IT Students.
- Campus wide Wi-Fi connectivity, Public Addressing System and Security Surveillance System.
- Implemented Multi-Protocol Label Switching technology based Virtual Private Network (MPLS VPN) Connectivity and Internet services as part of NCG network.

## Staff

Sl No	Name	Designation
1.	Ranjith M K	System Manager
2.	Bavina C	Junior System Analysts

## MEDICAL RECORDS DIVISION

### Introduction

Medical records division is under the department of Cancer registry and Epidemiology and it is constrained with space as the number of patients increase.

### Major Activities

- Scanning of old and inactive medical records towards the digitisation of medical records
- Introduced number for all the forms as part of form control and NABH requirement
- Assists in in-patient and out-patient services

Death Intimation done during the period -157



### Department wise File transfer

Sl. No.	Department	No. of Files
1	Surgical Oncology	25409
2	Radiation Oncology	21345
3	Cancer Registry	6672
4	Hemato Oncology	5779
5	Gynaecology	5185
6	Head & Neck	4833
7	Medical Oncology	3860
8	IP	3850
9	4 D CT	3767
10	Reception	3750
11	KBF	3311
12	OP	2430
13	Endoscopy	2321
14	Pathology Dept.	1280
15	Palliative	1036
16	Dental	534
17	Day Chemo	461
18	Brachy OT	406
19	Administration	391
20	Day Care	329
21	MRD Reserve	307
22	LINAC	273
23	Nursing	257
24	Community Oncology	194
25	Pre Anasthetic Check	132
26	CVAD	91

27	Director	79
28	Procedure room	63
29	Paediatric	58
30	Genetic clinic	51
31	Speech Therapy	47
32	Cystoscopy	45
33	TPS	43
34	Multi Speciality Board	41
35	Stoma clinic	38
36	CT Scan	34
37	Simulator	28
38	Physiotherapy	24
39	Inactive Area	18
40	OT	7
41	RT OP	6
42	Dietetics	1

### Staff

Sl No	Name	Designation
1	Jayadev G	Medical Record Officer
2	Sneha	Medical Record Assistant
3	Nameetha s	Medical Record Attender

# DEPARTMENT OF COMMUNITY ONCOLOGY



## Introduction

Community oncology Department started functioning as a full-fledged department since 2010 January .The Department has been regularly conducting cancer awareness classes, early detection camps, volunteer training programs, health exhibitions and school tobacco awareness programs and community participatory research activities in 5 districts of North Kerala (Kozhikode, Kannur, Wayanad, Malappuram, Kasargod and Palakkad) and Mahe (U T of Pondicherry). A tobacco cessation clinic and an anti-tobacco cell function under the department.

## Activities and achievements

### Routine activities

#### Awareness programs

- Cancer awareness campaign: cancer awareness classes for general public and health workers in cooperation with various organizations, residential groups, clubs etc.
- Tobacco awareness campaign at schools: anti-tobacco awareness classes using audio visual aids were conducted at different schools.
- Exhibitions and observation of cancer related health awareness days: cancer and tobacco related health exhibitions were organized at different public programs and schools. No tobacco day, cancer awareness day etc. were observed with massive public programs.
- Trainings and workshops: training in tobacco control and cancer screening for health workers, volunteers, JPHNs, nurses are regularly conducted.
- Awareness generating public competitions: painting and literary competitions were organized for school children and general public on tobacco control and cancer prevention.
- Quarterly newsletter NETHI on tobacco awareness for school children.
- Publication of IEC materials for awareness generation.
- Screening of short film for tobacco awareness “U- Turn “in schools and public programs.
- Community participatory research activities



## Screening camps

- Early cancer screening camps: oral, breast and cervical cancer screening camps were organized at different districts of the state namely Kannur, Kasargod, Wayanad, Calicut, Malappuram, Palakkad and Mahe (U T of Puduchery).
- Survey based screening camps
- Tribal community programmes: tribal camps at Aralam and Wayanad.
- Risk group screening camps for HIV patients, sex workers etc.

## Tobacco cessation clinic

Tobacco cessation treatment is provided to those addicted to all forms of tobacco use. People identified at the camps were directed to the department OPD. Division also conducts various tobacco awareness programs for public and school children. Research on various aspect of tobacco use is also conducted in the division. Tobacco cessation OPD functions on all Wednesdays.

## Anti-tobacco cell

Anti-tobacco cell was formed on 31-10-11. The cell consists of eminent personalities from different walks of life like teachers, Journalists, Social activists, writers, Janamythri police etc. The main aim of cell is to educate the student community on the menace posed by the tobacco use. The Executive Committee of the cell comprises the following members. Dr Satheeshan Balasubramaniam (Chairman), Dr. Ramachandran V (Joint Convener), Dr. Neethu A.P, Dr. Phinse .M. Philip (Member conveners) and Major P Govindan, Dayanandan Master, Chalakkara Purushu, Pradeep Master (Executive members). The cell is involved in all our anti-tobacco campaigns.

## Activities in 2017-18

1. Sansad Adarsh Gram Yojana, Kuttiaattoor: Organised awareness programs on life style, waste management and first aid on 7th April 17, World health day
2. "VIMUKTHI - State government initiative to control drug use at Kuttiaattoor Panchayath on 15-4-17 and formation of panchayath level and ward level committees to monitor and implement the same.
3. World no tobacco day observations on 31st May 2017: A public function was organised at MCC. District collector Mr Mir Muhammed Ali IAS inaugurated the program. Arch bishop of Tellichery Archdiocese Mar George Njaralakatt was the chief guest. The program was presided by Director of MCC, Dr Satheeshan Balasubramaniam Sri Chalakkara Purushu, member anti tobacco cell MCC and Fr. Thomas Thayyil, Director of Thalassery social service society were also present. The program was attended by students and teachers from Kannur and Kasargod districts. After the inaugural function, an interactive session tobacco and cancer was held. A panel consist of Dr Satheeshan Balasubramaniam, Dr Adarsh and Mr Pradeep TC interacted with the students Sensitization program for auto drivers was also organised in MCC Director interacted with the participants.
4. International day against drug abuse and illicit trafficking, June 26: Short story and poem competition for high schools and higher secondary schools in Kannur district was conducted.
5. "Munnettam" tobacco cessation patients meet and patient forum formation on 16-8-17: The program was inaugurated by Prof Richard Hay MP. Other dignitaries attended the program include Dr V Ramachandran MLA, DySP Prince Abraham and MCC Director Dr Satheesan B.
6. Aralam Panchayath ECDC clinic inauguration: Adv Sunny Joseph MLA inaugurated the clinic on 19-8-17. It was the third such clinic in the district.
7. Oral Cancer screening program for migrant labours was organised at MCC on 14-10-17. Thalassery DySP Shri Prince Abraham Inaugurated the program. MCC Director, Media person Shri Nawas Mether, MCC anti tobacco cell member Dr V Geetha also participated. Dr Neethu AP conducted awareness

class for the participants. 102 persons underwent oral cancer screening and services of tobacco cessation clinic at the Department.

8. Inclusion of cancer awareness in school curriculum - Preliminary meeting was held on 25-10-17. DIET Kannur principal Shri Prabhakaran, Dr Satheesan Balasubramanian, DySP Shri Prince Abraham, Deputy Excise Commissioner Shri Suresh and teachers from various schools participated in the meeting.
9. Awareness visit to MCC by Students ("KUNJARIVUKAL"), Panchayath members, ASHA workers, camp organizers were conducted regularly with awareness seminar on cancer followed by visit to various departments of MCC by the participants.
10. "NETHI" news letter release: 12th issue was released at the function by Arch bishop of Tellichery Archdiocese Mar George Njaralakatt, 13th issue of on 15/1/18 at a function held at the Thomapuram by TSSS Assistant director Fr Benny Nirappel
11. Cancer vimuktha gramam - A cancer control project by Kannapuram Grama Panchayath. The third phase of the project is planned for awareness creation.
12. National cancer day, November 7th. Observation of national cancer awareness day at Velimanam School, Iritty. School cancer awareness unit "MIZHI" was inaugurated by MP Sreemathi Teacher. This was done with intention of starting a cancer awareness unit in all schools with active participation from students. They unit will take leadership in observing important cancer related days like National cancer day, world cancer day, No tobacco day etc. Health exhibition on tobacco and awareness class on cancer prevention were also conducted. There was also a food fest for promoting cancer prevention through diet
13. Inauguration of Early Cancer Detection and Cancer Treatment unit at Ottappalam Taluk hospital on 6/11/17 by Sri Innocent MP
14. World cancer day observation February 4th: Malabar cancer centre in association with Cheemeny Open Prison observed world cancer day at the Prison. Cancer awareness class and oral cancer screening were conducted as part of the program. Jail inmates and staff participated in these activities.
15. Ayurdeeptham project- A district level program for setting up of early cancer detection centres (ECDC) in PHCs in Kannur district. ECDC clinics have started functioning in Kannapuram, Keezhpally PHCs and is about to start at Kuttiaattoor PHC
16. International Women day, March 8: -"Arogyajyothi" -women empowerment through health awareness. A one day training program was organised for selected nun sisters from Thalassery Archdiocese. The program included sessions on breast cancer awareness, cancer myths and truths, cancer prevention through diet and psychosocial support for cancer patients and their families.
17. Associate centers of MCC-As a part of decentralization of cancer control activities, Centers are planned in various charitable institutions. Training for 20 nurses for setting up 10 centers is ongoing.

### Statistics

ECDC camps	Awareness class	School tobacco program	Health exhibition	Volunteer training	MCC visit
145	14	21	8	8	4

### Cervical cancer screening

Pap smear	ASCUS	ASC-H	LSIL	HSIL
Total-2269	22	6	13	3

### Oral cancer screening

Total screened	Oral cancer	leukoplakia	Lichen planus	O S M F	Erythroplakia	Tobacco pouch keratosis
5514	15 (0.27%)	119 (2.15%)	149 (2.7%)	78 (1.41%)	13 (0.23%)	86 (1.55%)

### Breast cancer screening

Total screened	Breast cancer	Fibrocystic disease of breast	Mammogram advised
3841	14 (0.36%)	267	378 (9.84%)

### Research Programs

1. Health literacy project of Sansad Adarsh Gram Yojana in Kuttiaattoor panchayath-ongoing
2. Project regarding inclusion of cancer topics in School curriculum-under discussion
3. Project for starting Associate centres under MCC for cancer control as part of decentralization of cancer control activities

### Publications

1. Hand book on tobacco
2. NETHI newsletter –a publication of anti-tobacco cell of MCC every 3 months
3. Module for training of nurses for associate centre-under printing

### Staff

Sl No	Name	Designation
1	Dr.Neethu A.P	HOD i/c
2	Dr. Phinse M.Philip	Lecturer
3	Mr. Santhosh Kumar K	Lab Assistant

# DEPARTMENT OF ANESTHESIOLOGY



## Introduction

Department of Anaesthesiology started with the recruitment of an anaesthesiologist in 2015. Till then the operation room activities were managed with visiting anaesthesiologists. In 2017, one more anaesthesiologist joined the department. It manages the major operation theatres, surgical intensive care unit, minor OTs and Brachytherapy OT. In order to meet the demands in operation rooms, it was decided to recruit trainees in operation theatre technology for a period of one year. Currently MCC has two major and one minor operating room and 5 bedded PACU/ Recovery room. Minor procedures mainly include anaesthesia for Brachytherapy, Broviac line and central line insertions. During 2017-18, the infrastructure of the department was augmented with high end and state of art equipments in anaesthesia like Anaesthesia Workstation, Video laryngoscope and bronchoscope, multipara monitors etc. Renovation of the OT complex with addition of one more major operating room and nearly double the PACU beds are almost nearing completion.

## New Equipment Acquired

SL NO	ITEM NAME	MAKE/MODEL	TOTAL NO ISSUED
1	Ot table	Staan	2 Nos
2	Anaesthesia work station	Ge aisys cs2 with carescape b650 moniter	1
3	Anaesthesia work station	Ge avance	1
4	C mac-video laryngoscope d-blade- and flexible bronchoscope	C mac/storz	1

5	Multi para monitor	Nihon kohden bsm 3562k	6 (Rr)
7	Multi para monitor	Nihon kohden bsm 3763k	1
8	Monitor for pac (spo2+ nibp only)	Ge carescape v100	1
9	Defibrillator with aed	Nihon kohden tec 5631 k	1
10	Ecg machine	Ge	1
11	Body warmer	Covidien warm touch	1
12	Syringe pump	Terumo	6
13	Syringe pump stand	Terumo	3
14	Syringe pump	Terumo	8 (Rr)
15	Syringe pump stand	Terumo	3 (Rr)
16	Pneumatic compression device	Covidien	1 (Rr)
17	Pneumatic compression device	Covidien	5(Rr)
18	Body warmer	Covidien warm touch	2(Rr)

## Statistics

Sl No	Procedure	Numbers
1	General Anaesthesia	796
2	General Anaesthesia + Epidural Analgesia	276
3	SAB	301
4	CSEB	21
5	CSEB + GA	02
6	GA + SAB	06
7	Epidural	05
8	Regional Blocks	02
9	Short GA	13

## Staff

SI No	Name	Designation
1	Dr Nived K	Assosiate Professor
2	Dr Jashma C	Assistant Professor
3	Dr Nikhil	Lecturer
4	Krishnakumar K	OT Technician
5	Vipin K	Anaesthesia Technician
6	Balu krishnan. S.R	OT Technician
7	Sreejesh P.P.	OT Technician
8	Mayan John	Dialysis Technician

# DEPARTMENT OF CANCER PALLIATIVE MEDICINE



## Introduction

Cancer Palliative Medicine has been functioning in this Centre, since November 2002. The Centre is a recognized medical institution for possession and supply of Oral Morphine. The Palliative Care Services also provide counselling to patients and their family members. Cancer palliative medicine aims at improving the quality of life of cancer patients especially those for whom curative options have been exhausted.

## Facilities

- 1, Inpatient
2. Outpatient
3. Home care facility.

## Homecare facility

Homecare facility was started on June 20, 2009. Home care is done thrice in a week catering to the need of patients staying within 35 kms from MCC. There are so far 612 patients registered in homecare facility. Patients are given medication free of cost. Procedures like ascitic tapping, wound dressing, catheterization, and Ryle's tube insertion and feeding management are done. Apart from this, psychological support to the patient and their families are also given.

## E-palliative medicine

The homecare service from MCC is Nurse- lead and doctor assisted. In order to make the service more effective consultation of the patient is done through e-palliative medicine wherein the patient and relatives can see and consult the doctor directly making the homecare visit more satisfying to them.

## Major Activities & Achievements

- Patients of MCC rehabilitation group “SRISHTI” getting trained in Paper bag making at Cancer Palliative Medicine Department classroom.
- Mrs. Abhina S.S. received the rolling Trophy for the “Best Outpatient department” from the Director.
- Cancer Conquerors day “AMRITAM 2017” was conducted on 3.6.17. A stall of “SRISHTI” was exhibited in connection with this day. Paper bags made by our patients were exhibited.
- IAPC course in “Essentials of Palliative care” started with 19 candidates (13 staff nurses & 5 doctors). This is the 8th batch in MCC. Contact sessions held on 10.6.17 and 11.6.17.
- Handing over of the first order placed for newspaper bags to Mr. Nizam, owner of supermarket, “SEVERAL” by MCC Director.
- Dr . M.S.Biji was an invited faculty for the BCCPM and BCCPN course conducted by Institute of Palliative Medicine, Calicut.
- World Palliative care day was observed on 14th October 2017 at MCC. As part of providing psychological wellbeing for cancer patients, the department of Cancer Palliative Medicine of MCC had organized a one day trip “VIJAYAGEETHAM2017” to an eco-friendly Theme park-E3 park Wayanad.
- CME on Pediatric palliative care “TOSHI 2018” was held in the seminar hall of MCC on 14th January 2018. Around 74 delegates which included palliative care physicians & nurses, pediatricians, general practitioners and in-house doctors and nurses, participated in the program.
- As part of NABH training programme, a session on “End of life care” was taken by Dr.M.S.Biji for doctors of MCC in the conference hall. A total of 29 doctors attended.
- BCCPN students from Kasaragod training centre underwent clinical posting in palliative care at MCC.
- Dr.Biji M.S. attended the Silver Jubilee International Conference of IAPC, held at AIIMS, Delhi and presented a poster on “Profile of pain score and analgesic usage in children with hematological malignancies treated at a tertiary cancer centre in Kerala” and bagged the 2nd prize for the same.
- As part of NABH training programme, a session on “End of life care” was taken by Dr.M.S.Biji for nurses of MCC in the palliative class room. A total of 25 nurses attended.

## Publications

### Conference paper

1. “Profile of pain score and analgesic usage in children with hematological malignancies treated at a tertiary cancer centre in Kerala”. Biji M S, Vineetha Raghavan, Jithin T K, Abhina S.S, Maya Padmanabhan, Chandran K Nair, Satheesan B
2. Can e palliative care delivery satisfy our patients? Biji M S, Ranjith M K, Abhina S. S, Satheesan B.

### Articles

- Overall survival analysis of patients with brain metastases treated with palliative WBRT in a Tertiary Cancer Centre of North Kerala. Biji MS, Vinin N.V, Abhina S.S, Bindu T, Geetha M.. Indian Journal of Palliative care 2017. 23. 121-79p.
- Believing Jeny about her pain. M.S.Biji. Journal of Pain & Palliative care Pharmacotherapy. 2017; 31; 1. 73-75p.
- Validation of Malayalam version of national comprehensive cancer network distress thermometer and its feasibility in oncology patients. MS Biji, Sampada Dessai, N Sindhu, Sithara Aravind, B Satheesan. Indian Journal of Palliative care. 2018. 24; 1. 67-71p.



## Courses Conducted

1. IAPC course in “Essentials of Palliative care” for doctors and nurses-6 batches completed.
2. BCCPAN (Basic Certificate Course in Palliative Auxiliary Nursing) for auxiliary Nurses-9 batches completed
3. BCCPN (Basic Certificate Course in Palliative Nursing) for Nurses-3 batches completed

## Ongoing Projects

3. “Patient satisfaction of homecare service provided through e-palliative homecare service in a tertiary cancer centre of northern Kerala “.
4. Tolerance and toxicity of Paclitaxel and carboplatin in definite chemo radiation in carcinoma Esophagus.
5. The practice of pain management in children with haematological malignancies at a tertiary cancer centre in Kerala, India.

## Staff

SI No	Name	Designation
1	Dr.M.S.Biji	Assistant Professor &HOD
2	Mrs.Abhina S.S	Staff Nurse

## PSYCHO-ONCOLOGY DIVISION

### Introduction

Psycho-oncology is the division that deals with the behavioural, emotional, cognitive and social aspects of cancer patients and their families. The division of Psycho-oncology has been functioning in this Centre, since July 2017. It focuses on providing Psycho-social interventions for patients and families from cancer diagnosis till survivorship and palliation, thereby improving their quality of life. The division also provides alcohol and tobacco deaddiction counselling for the patients. It also deals with the stress management of the staff dealing with cancer patients.



The division combines Psychiatry, Psychology and Medical social work aspects in to Cancer care.

### Clinical Activities

Month	Pre treatment Counselling	Genetic Counselling	Psycho-oncology consultation
Apr-17	177	23	-
May-17	234	24	-
Jun-17	203	23	-
Jul-17	197	35	44
Aug-17	165	24	46

Sep-17	145	16	52
Oct-17	163	8	42
Nov-17	210	19	60
Dec-17	250	19	59
Jan-18	284	34	63
Feb-18	182	20	31
Mar-18	230	21	31
<b>Total</b>	<b>2440</b>	<b>266</b>	<b>428</b>

### Other Activities

1. May 17: Session for Nurses ‘ Depression: Let’s Talk’’: Dr Zoheb Raj (Asst. Professor, Dept. of Psychiatry, Kannur Medical college)
2. August 17: Faculty for Nurses Conference ‘Jagrathee’, Conference on Nurse guided Patient Carer education (Session Communication for Patient carer education by Mr. Sobhith V.K & Panel Discussion, Ms. Jisha Abraham)
3. October 17: national Conference MIND CAN 2017: A Psycho-social perspective in cancer care. Almost 60-70 participants attended.
4. November 17: Faculty for Tobacco cessation Workshop at MVR Cancer Centre ( Ms. Jisha Abraham on ‘Relapse Prevention’)
5. March 2018: International Guest Faculty Lecture: Integrating Research into Clinical Psycho-oncology ( Dr Karen Kayser, Professor, Dept of Social Work, Kent School of Social Work)
6. Community Oncology session on Womens day : Psycho-social aspects of cancer by Ms. Jisha Abraham
7. Distress screening training for Nurses: 3 sessions
8. Academic sessions: Ms. Jisha (5), Mr Sobhith (13) ( Fellows, BSc MRT, Post Basic diploma Nursing

### Staff:

SI No	Name	Designation
1	Ms Jisha Abraham	Lecturer
2	Mr Sobhith V K	Medical Social Worker

# DEPARTMENT OF DENTISTRY AND REHABILITATION



## Introduction

Department of Dentistry & rehabilitation provides dental services to all the registered cancer patients. Pre-radiation dental screening is made mandatory for all head and neck cancer patients. Dental restorations, oral prophylaxis extractions, fixed and removable prosthesis are provided for such patients. All the patients will be regularly followed up for optimum dental health.

Hematological patients and patients with solid tumours having skeletal metastasis are also screened for dental health and necessary dental treatment carried out.

Surgical patients who are in need of obturators are planned in accordance with the head and neck surgery departments.

Maxillofacial prosthesis services are also being provided.

## Activities and Achievements

Enhancement of treatment facilities in the department- rotary endodontics, dental implant surgery started.

## Statistics

Sl No	Services/Items	Number
1	Out-patient	3226
2	Dental extractions	1515
3	oral prophylaxis procedures	64
4	gic restorations	68

5	obturators	27
6	root canal treatments	69
7	complete dentures	28
8	removable partial dentures	31
9	maxillofacial prosthesis	1
10	cast RPD	1
11	Implant	2
12	FPD	50 units
13	Flouride Cariers	2

### Conference, Seminar, Workshops and Presentation

1. SORT –IT Course – final module MCC, Thalassery, 30 APRIL-6 MAY 2017
2. Sixth World Congress- IAOO, Bangalore India. Presented a paper on “*Oro-dental screening and Osteonecrosis of the jaw in patients receiving anti-resorptive medication A four year retrospective study at a tertiary cancer centre Kerala, India*”. 18-20 MAY 2017.
3. Live surgical workshop on 3D model guided maxillofacial reconstruction &rehabilitation,Narayana Hridayalaya, Bangalore. 17 May 2017.
4. Midterm conference and PG convention – Indian Prosthodontic Society at Trivandrum, Kerala. 14-15 Oct 2017.
5. DOST- Demonstration of surgical Techniques, MCC Thalassery, Present a session on “*Challenges in dental rehabilitation of mandibulectomy patients*”. 25 NOV 2017
6. 50<sup>TH</sup> Kerala State Dental Conference, Kochi Kerala. 26-28 JAN 2018
7. NABH Training session on “CQI- Tools &Techniques” at AIMS, Kochi. 25 Feb 2018

### Research Programmes

1. Evaluation of effectiveness of dental intervention and oral care protocol recommended for patients undergoing radiotherapy in a tertiary cancer centre - A Prospective study.
2. Drug related and dental related factors for developing osteonecrosis of the jaw among cancer patients who receives anti-resorption medication at a tertiary cancer centre in North Kerala, India - A five year prospective study.

### Publications

Osteonecrosis of the jaw among patients receiving antiresorption medication: A 4-year retrospective study at a tertiary cancer center, Kerala, India. *Contemporary Clinical Dentistry*. 2018. 9; 1. 35-40p.

### Staff

Sl No	Name	Designation
1	Dr. Pramod Sankar. S	Associate Professor &HOD
2	Dr. Sruthi Vijayan	Senior House Surgeon

# DEPARTMENT OF ENGINEERING AND MAINTENANCE



## Introduction

The Engineering Department undertakes all the maintenance works and construction works of MCC. In addition to the above, Engineering dept. handling the AMC and insurance processing of whole Hospital equipments, buildings, roads and other structures under different categories and taking necessary steps to settle claims whenever a damage/replacement occurs.

## Achievements/ Activities

### Enercon 2017

Enercon - a one day training program on Electrical safety and energy conservation methods conducted on 8th April 2017 at MCC. The program was to provide fundamental and essential knowledge and understanding of efficient utilization of electrical energy and safety tips for staff and students of MCC as well as for public, students from other institutions.

## Constructions

1. Construction of Nuclear Medicine Block
2. Construction of Paediatric Oncology Block
3. KIIFB Projects

The following projects are included in the 1st phase (183 Crores)

Construction and Furnishing of:

1. Radiotherapy block with 3rd LINAC (extension)
2. Inpatient Block (vertical extension)
3. Operation Theatre Complex (2nd floor)
4. Nursing College (2nd phase- second & third floor)
5. Out Patient Block renovation
6. Equipment and Facilities

The work is yet to start

### **New projects in MCC**

The following works were awarded to M/s Uralungal Labour Contract Co. Operative Society Ltd (ULCCS).

1. Laboratory Block
2. Construction of General Staff quarters
3. Construction of building for CSSD
4. Cancer Genetic Laboratory
5. Compressed Medical Air plant
6. Children's park
7. Expansion of OT Complex and shifting of Office area
8. Flooring works of power laundry
9. Construction of Public toilet
10. Supply, Installation, Testing and commissioning of Main Panel Board (MSB) and Connected works
11. Construction of new Open well
12. Relaying work of Interlocking pavers in the main entrance to the Hospital over bitumen
13. Path way to the Medical gas plant
14. Lying of Interlock pavers in Doctor's quarters.
15. Providing display sign boards
16. Painting works
17. Engaging carpenters for making furniture's with packing materials

### **Aluminium Fabrication works**

The following aluminium fabrication works were executed for various departments:

- Aluminium partition work in female ward for Paediatric procedure room
- Proteomics Lab
- Compressed air
- Day chemo OP extension
- CSSD

## Workshops and Seminars

- Conducted a cancer screening program and awareness class for other state labours in the site which was a grand success.
- Two engineering staffs attended the workshop on Energy Efficiency Financing conducted by EMC at Trivandrum on 22nd August 2017.
- Electricians attended the one day workshop on First Aid and Safety on Industry Training conducted by Electrical Inspectorate Calicut.
- Engineering staff attended the DG maintenance and operation of Cumins Engines at Calicut conducted by M/s Sunitha Sales & Services.

## AWARDS

Achieved Kerala State Pollution Control Board Award 2017-18

### Staff:

Sl No	Name	Designation
1	Mr Sudeep K T	Engineer
2	Mrs Reena P C	Supervisor, electrical
3	Mr K Chandran	Supervisor, Plumbing
4	Mr T V Satheesh	Supervisor, electrical
5	Mrs Shijina E	Supervisor, civil
6	Mrs Ljijkrishnan	Biomedical Technician
7	Mr Sushanth	Electrician
8	Mr Nyju	Electrician
9	Mr Anil kumar S	Electrician
10	Mr Rasheed	Plumber
11	Mr Jinsithlal O N	Plumber

# DEPARTMENT OF GENERAL ADMINISTRATION



## Introduction

Recruitment of employees, training, functioning, setting the salaries and benefits of employees and managing employee-employer relations, are some of the primary duties of the Administration. The responsibility of the Administration includes, organizing and supporting the major activities of the Institute and integrating various functions and services. It is a multifaceted Department, comprising of many Divisions and types of personnel, and services. It requires adequate facilities trained employees, efficient systems and controls, and other supporting staff. The policy making body of the Institute is the Governing Body (GB) and the day to day activities are controlled by the Executive Committee (EC). In order to meet the objectives of the Institute, the Administration coordinates the activities of the Centre and creates policies so that all areas of the Institute staff functions efficiently. The Administration recruits, hires hospital staff such as Doctors, Academicians, Engineers, Nurses and other Para-medical and scientific/technical staff, for the entire staff requirements of the Institute. The employees are periodically evaluated and proper guidance and training are provided to them to bring out the maximum output. The Director and other Senior Officers lead these administrative services and is directly responsible for the day-to-day operation.

Administration Department is entrusted with the task of evaluating the staff on a periodical basis and judging the level of their performance and also developing policies and procedures that facilitate the efficiency of daily operations. It reviews, implements and analyzes the overall budget of the Institute and the budgets of different areas of the Institute to make sure they are realistic and stringently followed. At times, it acts as a moderator for staff complaints and tries to resolve the grievances arising out of patient care services. In addition to a great deal of paperwork and daily administrative tasks, the administration also thinks about the future of the Institute and provide additional in-puts on short-term and long-term plans, for its growth and development. It also ensures that Institute objectives are met through the process of selection, development, organization, motivation, management, evaluation and the promotion of human resources. The Administration complies with Government regulations set out for the Institute and its staff. The Department consists of staff looking after the day-to-day affairs of the Centre in accordance with the existing rules and regulations of the Centre and in accordance with Government orders/instructions, issued from time to time. The Administrative Department is running the activities with minimum staff strength, i.e. less than 5% of total staff strength of the



entire Institution. The Department controls the overall activities of the Centre and consists of the following major Divisions:

The General Administration Department handles the overall administrative activities related to the Hospital and liaison work with Government and other Departments. The Department consists of ministerial staff looking after the day-to-day affairs of the Centre, in accordance with the existing rules and regulations of the Centre and in accordance with Government orders/instructions, issued from time to time.

### Staff

Sl No	Name	Designation
1.	Mr. Rajesh A K	Administrative Officer
2.	Mrs. Preethudas	Personal Assistant
3.	Mr. Rejoy K	Clerk/ Cashier/ Typist
4.	Mr. Jayadeep E K	Clerk/ Cashier/ Typist
5.	Mr. Jayanandan A	Clerk/ Cashier/ Typist
6.	Mr. Sreejith P K	Clerk/ Cashier/ Typist
7.	Mr. Dinesh Kumar. T.M	Clerk/ Cashier/ Typist
8.	Mrs .Bindu.T.K	Clerk/ Cashier/ Typist
9.	Mr. Ganeshan.V	Clerk/ Cashier/ Typist
10.	Mrs.Surekha.M.C	Clerk/ Cashier/ Typist
11.	Mr.Prasoonan.P.P	Clerk/ Cashier/ Typist
12.	Mr. Anoop.V	Clerk/ Cashier/ Typist
13.	Mrs.Mini..P	Clerk/ Cashier/ Typist
14.	Mrs.Sandhya.K.P	Hospital Assistant
15.	Mr. Shajith.R.P	Attender

### Hospital Administration

This Division will handle the clinical activities of the Centre. However this Division is presently handled by the Administrative Officer itself, as the Institution is yet to fill up the post of Hospital Administrator. The recruitment procedures are in progress for filling up this post.

## ACCOUNTS DIVISION

### Introduction

This Division plays a key role in up-keeping the financial matters of the Centre. This Division is headed by Finance/Accounts Officer. At present Shri.Sajeendran.V (Retd Additional Secretary from Government) is holding the post on temporary basis. Recruitment procedures are in progress for appointing permanent hands. The Finance/Accounts Division manages financial activities including all payments and receivables related to the Institution. The important activities carried by this Division are as follows:



- All works pertaining to preparation of annual budget, salary disbursement, maintaining PF accounts of staff members all payments & receipts, maintenance of all books, ledgers and registers, all banking transactions, auditing etc are handled by this Division.
- Billing for services rendered by the hospital wing and for receiving money on behalf of the Centre.
- Making payments for supplies and services received and disbursement of pay and allowances of the staff of the Centre.
- Preparation and maintenance of the accounts the Centre
- Preparation of the budget documents (Plan & Non-Plan) schemes and assisting the Director in exercising proper budget control.
- Paying for supplies and equipment's.
- Handling all records pertaining to hospital finance.
- Keeping all records of assets and liabilities.

### Grant-In Aid from Government

Grant in aid during the year 2017-18 are as follows:

#### PLAN

Allotted amount - Rs.35 crores

Released amount – 650 lakh. (e-LAMS amount for 2016-17)

#### NON-PLAN

Allotted amount - Rs.35 crores

Released amount – 650 lakh.

### Human Resources and Establishment

Staff requirements for each section of the Hospital, including Senior Administrative Staff, Academic Staff Non-academic staff, Paramedical staff, Technical staff, Junior Administrative staff, Last grade staff etc: - are being timely met by the efforts of this Division. Approved recruitment guidelines are implemented for all recruitment procedures for the appointment of academic and non-academic staff. As per Service Rules of MCC the recruitment authority for Academic staff/ Senior Administrative Staff is the Staff Selection Committee. The present Staff Selection comprises of the following members:

1	Secretary to Government, Health Department or his nominee	Chairman
2	Secretary to Government, Planning & Economic Affairs Department or his nominee	Member

3	Secretary to Government, Finance Department or his nominee	Member
4	Members of Scientific Committee	Members
5	External subject expert(s)	Member
6	Director, Malabar Cancer Centre Society, Thalassery	Convener

The recruitment authority for Paramedical, Nursing, Auxiliary, Technical staff, junior administration staff Last grade etc: is the Director or Recruitment Committee constituted for the purpose. The present Recruitment Committee comprises of the follows:

- Director-MCC
- External Subject Expert (s)
- HOD of concerned Department
- HOD- Clinical Laboratory Services and Translational Research/Senior HOD of any Clinical Department (Clinical Hematology/Radiation Oncology/Surgical Oncology)
- Administrative Officer.

<b>Staff who had joined instituion during 01.04.2017 to 31.03.2018</b>			
<b>Sl No</b>	<b>Name of Employee</b>	<b>Designation</b>	<b>Joining Date</b>
1	Safna Sari KK	Hospital Assistant	01/04/2017
2	Viju V	Clerk/Cashier/Typist	03/04/2017
3	Subitha S	Cytotechnician	03/04/2017
4	Deepak Omanakkuttan	Technician Clinical Lab	06/04/2017
5	Dr. Nabeel Yahiya EK	Assistant Professor	10/04/2017
6	Vishnu Raj N	Attender	17/04/2017
7	Panamthundiyl Abdul Majeed Ramees	Hospital Administrator	05/06/2017
8	Maya Padmanabhan	Lecturer	05/06/2017
9	Renjith P. Nair	Lecturer	08/06/2017
10	Jisha Abraham	Lecturer	10/07/2017
11	Gayathry SS	Technician Radiation On-cology	07/08/2017
12	Krishna Priya VS	Medical Record Assistant	07/08/2017
13	Rasiq P E	Endoscopy Technician	08/08/2017

14	Shijina E	Supervisor - Civil	10/08/2017
15	Faisal Anchukandan	Technician Radiation Oncology	26/08/2017
16	Kavitha Prakash	Nursing Assistant	10/10/2017
17	Sajna KK	Nursing Assistant	10/10/2017
18	Silna KK	Nursing Assistant	10/10/2017
19	Abitha CA	Nursing Assistant	19/10/2017
20	Jiji PS	Nursing Assistant	19/10/2017
21	Suma S.	Nursing Assistant	19/10/2017
22	Dr. AnindyaMukkherjee	Assistant Professor	21/10/2017
23	Dr. Saravanan M	Lecturer	30/10/2017
24	Dr. Shamna Mohammed	Assistant Professor	01/11/2017
25	Gladish A	Hospital Assistant	20/11/2017
26	Dr. Adharsh A	Assistant Professor	08/01/2018
27	Abhilash PS	Staff Nurse - Gr. II	19/03/2018
28	Soumya Mathew CM	Staff Nurse - Gr. II	20/03/2018
29	Anjana GN	Staff Nurse - Gr. II	21/03/2018
30	Sajika MJ	Staff Nurse - Gr. II	22/03/2018
31	Vijina K	Staff Nurse - Gr. II	22/03/2018
32	Divya CM	Staff Nurse - Gr. II	22/03/2018
33	Abdul Majid P	Staff Nurse - Gr. II	22/03/2018
34	Ajayakumar VD	Staff Nurse - Gr. II	23/03/2018
35	Ameer Sanchani O	Staff Nurse - Gr. II	23/03/2018
36	Rinsha PK	Staff Nurse - Gr. II	24/03/2018
37	Jithin TP	Staff Nurse - Gr. II	24/03/2018

38	Soumya PG	Staff Nurse - Gr. II	24/03/2018
39	Varsha VV	Staff Nurse - Gr. II	26/03/2018
40	Jayasree VK	Staff Nurse - Gr. II	26/03/2018
41	Shamseer K	Staff Nurse - Gr. II	26/03/2018
42	ChithraVeena B	Staff Nurse - Gr. II	26/03/2018
43	Gis Jose	Staff Nurse - Gr. II	26/03/2018
44	Aswani Raj	Staff Nurse - Gr. II	26/03/2018
45	Remya O	Staff Nurse - Gr. II	26/03/2018
46	Nidhina KP	Staff Nurse - Gr. II	27/03/2018

<b>Staff who had left the Institution during the period</b>				
<b>Sl. no</b>	<b>Name</b>	<b>Designation</b>	<b>Joining Date</b>	<b>Relieved date</b>
1	Gibesh. K.P	X ray Technician	12/10/2012	31/05/2017
2	Dr. MS Senthilnathan	Additional Professor	02/06/2016	23/06/2017
3	Panamthundiyl Abdul Majeed Ramees	Hospital Administrator	05/06/2017	21/08/2017
4	Surya. M.C	Hospital Assistant	14/09/2011	07/10/2017
5	Dr. Midhu N N	Lecturer	12/06/2017	16/12/2017
6	Dr. Dessai SampadaBablo	Associate Professor	01/12/2015	27/01/2018
7	Dr. Dipin J	Senior Lecturer	01/09/2015	29/01/2018
8	Krishna Priya VS	Medical Record Assistant	07/08/2017	12/02/2018
9	Soumya NM	Lecturer	12/06/2015	22/03/2018

## PURCHASE/ STORES DIVISION & PHARMACY

### Purchase

#### Introduction

All purchase matters including medicine purchase are handled by this Division. All purchases of the Centre are routed through this Division, including local purchases. Purchase procedures are carried out, following Store Purchase Rules. At present this Division is handled by the Administrative Officer himself as recruitment procedures are in progress for appointing permanent hands. The important functions of this Division are as follows:

- To ensure competent quality execution of all regular purchasing duties and administrative works.
- To prepare reports and summarize data including sales report and book value.
- To support relevant departments with quotations for the purpose of tenders.
- To monitor and co-ordinate deliveries of items between suppliers to ensure that all items are delivered to site/store on time.
- To plan and manage inventory levels of materials or products.

Major equipment's purchased during the period are as follows:

Year: 2017-18			
Sl.No.	Equipments Name	Name of Provider	Amount
1	Khione Liquid Nitrogen Generator [(Model LN10), Manufacturer: Wirac Automation Ltd, UK]	M/s.Nitrogenium Innovations & Technologies	Rs.34,57,598.00
2	Walk-in Cold Room with required accessories (Make & Model: BLUE STAR, PW100PP4460)	M/s. ECO Cooling Solutions,	Rs.5,00,000.00
3	Next Generation Sequencer (Model: MiSeq System, Make: Illumina Singapore Pte. Ltd)	M/s. Premas Biotech Pvt. Ltd	Rs.85,50,000.00
4	Anaesthesia Workstation/ (Boyles Apparatus) (Make: GE Healthcare, Model: AISYS CS2) with B650 Multipara Monitor	M/s. Wipro GE Healthcare Pvt. Ltd.,	USD: 42.000.00
5	Film Scanner ( 01 No) with Software for Film Analysis (01 No)	M/s. Rosalina Instruments,	Rs.33,00,000.00
6	Electro Surgical Unit : 1 No. (Make Erbe VIO 300S)	M/s. Innovative Conceptrs	Rs. 5,20,000.00
7	BipapMachine : 1 No. (Make: PILIPS- BIPAP A-40)	M/s. Kardia Medical Instrumentation.	Rs. 2,24,000.00
8	Syringe Pump : 19 Nos	M/s link Surgical & Medi System	Rs. 13,37,600.00
9	ICU Ventilator: 4 Nos.(Make : GE Healthcare, Model: Carescape R 860)	M/s. Wipro GE Healthcare Pvt. Ltd.,	USD: 62.140.00 (INR Rs. 39,95,291.00 and Customs duty Rs. 7,22,084.00)

10	Anaesthesia Workstation : 1 No. .(Make : GE Healthcare, Model: AVANCE CS2 )	M/s. Wipro GE Healthcare Pvt. Ltd.,	USD 29,000.00 (Rs. 18,63,009.00)
11	Flexible Intubation Video Endoscope with required accessories (Make & Model: KARL STORZ- Catalogue No:11301 BNXX &11302 BDXX)	M/s. KARL STORZ Endoscopy India Pvt Ltd.	Rs. 30,00,000.00
12	OT TABLE : 2 NOS. (Make: STAAN.Glory)	M/s Link Surgical &Medi System	Rs. 24,00,000.00
13	High End Multipara Monitor (09 Nos) (Model: Nihon Khoden BSM 3562K)	M/s. Medi Serve	Rs.36,00,000.00
14	Hybrid Haemo Dialysis Machine (1 No)	M/s. Graham Pharmaceuticals	Rs.14,78,400.00
15	Infusion Pump (10 Nos): Model: Terumo LF 600	M/s. Link Surgical & Medisystems	Rss.5,00,000.00
16	Syringe Pump (35 Nos): Model: Terumo TE-SS 800	M/s link Surgical &Medi System	Rs.22,50,000.00
17	Pneumatic Compression Device (5 Nos)	M/s. Fortuna Technologies	Rs.6,72,000.00
18	Dental Implant system &Physsiodispensor	M/s. JJ Implants	Rs.3,31,920.00
19	Digital Sensor System	M/s. Medi Needs	Rs.1,88,000.00
20	Wall mount Dental X-ray	M/s. Medi Needs	Rs.1,48,500.00
21	High Speed Table Top Centrifuge	M/s. KochinInlab	Rs.2,75,000.00
22	Phlebotomy Chair – 2 Nos	M/s. KochinInlab	Rs.72,000.00
23	Vein Viewing Device	M/s. Haemolab Equipments	Rs.4,40,000.00
24	Biosafety Cabinet - 1 No.	M/s. Calgon Scientific	Rs.3,72,000.00
25	Forced Air Warmer (3 Nos)	M/s. Classic Health care	Rs.2,62,080.00
26	Elisa Plate Rader with Washer	M/s. Universal Agencies	Rs.7,00,000.00
27	Multi Header Teaching Microscope	M/s. Radica Scientific	Rs.5,60,000.00
28	Electro Surgical Unit	M/s. Axis Medicals	Rs.13,43,481.00
29	Apheresis Donor Couch – 2 Nos	M/s. KochinInlab	Rs.3,66,000.00

30	Anerobic Chamber	M/s. IMSET	Rs.10,50,000.00
31	PCR Cabinet	M/s. Scientific Enterprises	Rs.1,40,000.00
32	PCR Plate Centrifuge	M/s. KochinInlab	Rs.3,40,000.00
33	Tube Sealer	M/s. KochinInlab	Rs.2,97,000.00
34	Semi Motorized Rotary Microtome	M/s. Lab India	Rs.6,98,250.00
35	Data Logger	M/s. Biolinx India	Rs.12,60,000.00

## Medicine purchase

### Introduction

The entire medicines, consumables, surgical disposables, X-ray films, common drugs, antibiotics, re-agents etc:-, required for the Centre, is purchased through this Division. E-tender procedures are followed for the purchase of medicines on yearly basis. Purchase procedures are initiated by giving wide publicity through newspapers and website of MCC. A pre bid meeting is conducted with potential Suppliers and tenders are floated. Selected firms are to execute a Supply agreement with MCC and payment shall be released based on the supply and proper checking of bills. Non-quoted medicines/emergency medicines are purchased from Neethi stores/Local market, subject to availability. Total purchase amount of medicines during the year 2017-18 is Rs. 17,66,32,327/-

## Pharmacy

### Introduction

In the financial year 2017- 2018, MCC provided all kind of Cancer Medicines, Narcotic drugs, Surgical and disposable items.. All items were purchased through E-Tender, a separated purchase committee also formed for purchase activities.



### Activities and achievements

To overcome the workload of pharmacy by increasing number patient and staff shortage, one year Pharmacy training program was started in the centre.

Service of one clinical pharmacist was also provided in MCC to help pharmacy department for NABH purpose to increase the standard of Pharmacy department.

### Academic activities

1. Training program for the Pharmacy graduate
2. Continuous Pharmacy education programs –conducted every year
3. Seminar –in every month

MCC Pharmacy, due to the peculiar location of the Centre, has much significance in providing medicines for the patients in MCC. As the Centre is situated far away from Thalassery town it is necessary that all required medicines needs to have adequate stock. Non-availability of medicines in the Pharmacy will force poor patients to travel long way to Thalassery for availing the medicines. Moreover there is also possibility that cancer drugs might not be available in medical stores in Thalassery area.



### The main activities of Pharmacy are as follows

1. To ensure that sufficient quantity of medicines and other items are stored/stocked in the Store for ready issue.
2. To assist the Clinicians in obtaining latest information regarding any drug in terms of its trade name, manufacturers name, source details of package etc;\_
3. To check the drugs and other items on receipt in the Pharmacy, from stores/suppliers/main store regarding their nomenclature, date of manufacture, date of expiry, shelf life and any sign of deterioration, damage or defects if any.
4. To issue drugs and other items from Pharmacy to OPD/Wards/ICU's/OT and other Departments after receiving proper indents.
5. To maintain the details of drugs and other items issued in register.
6. To ensure that medicinal products are stored appropriately and securely to ensure freshness and potency
7. To keep up to date with recent developments in the pharmaceutical industry.

At present there are two Pharmacies operating in MCC, the main Pharmacy and the IP Pharmacy in the 2nd floor. The main Pharmacy is having the facility of Cold storage system (Walk in cooler) for maintaining the potency of drugs. Separate Narcotic Drugs counter is also provided in main Pharmacy. All medicines and consumables related to cancer treatment, i.e, anti-cancer drugs, surgical & disposables, antibiotics, reagents, X-ray films etc; - are purchased through this Division. The Pharmacy division consists of Pharmacy Main Store, Main Pharmacy, IP Pharmacy and Storage area. The Main Pharmacy functions 24 x 7 and the IP Pharmacy functions during day time. Considering the large number of patients, medicines are issued through token system, which reduces the crowding.

### Staff

Sl no	Name	Designation
1	Sajeevan.P	Pharmacist
2	Ms.Rachana. M	Pharmacist
3	Mr.Viju V S	Store Keeper
4	Mr.Sugandham	Assistant Pharmacist
5	Ms. Nisha Gangan T V	Assistant Pharmacist
6	Ms. Sajitha P	Assistant Pharmacist
7	Ms.Sajila V K	Assistant Pharmacist
8	Ms.Sabitha M V	Pharmacy Assistant
9	Ms. Bindu K T	Pharmacy Assistant
10	Ms.Darley Joseph	Pharmacy Assistant

Details of purchase and sales during the year 2017-18 are as below:

Total purchase amount	-	Rs. 17,66,32,327/-
Total sale amount	-	Rs. 18,67,15181/-

## STORE DIVISION

### Introduction

This Division is headed by Store Keeper and deals with stock handling, maintenance of Central Stock Register, condemnation, disbursement of required items to various Departments/Divisions, printing & stationary, local purchase etc:- Stock verification is carried out in all Departments/Divisions and Pharmacy of the Centre annually.

The Store Keeper is under direct control of Purchase Officer/Administrative Officer. This Division works in tandem with the Purchase Division and mainly looks after the physical custody of stores, proper inventory control, preservation of stores, receipt of stores, movement of stores, including packing and forwarding, issue of stores, accounting of stores.



### Staff

Sl No	Name	Designation
1	Mrs. Lasitha	Store keeper

## SECURITY DIVISION

### Introduction

MCC is situated on a small hill top spread over 25 acres.

The security wing of MCC plays a pivotal role in maintaining the overall security of MCC and is headed by Security Officer. He will be under the direct supervision of Director/Administrative Officer. Security guards are ex-servicemen and are outsourced through KEXCON (Kerala State Ex-Servicemen Development and Rehabilitation Corporation). Vigilant security measures are put in place keep a close vigil on as lot of highly sophisticated and costly state of art equipment and facilities including those under surveillance and regulation of Atomic Energy Regulatory Board (AERB). AERB insists tight security for these equipment and this Centre comes under the direct supervision of District Superintendent of Police. Surveillance cameras are installed and CCTV policy is in place for providing operational guidelines. This Division also acts as in charge of Drivers and the Hospital vehicles.



### Staff

Sl. No	Name	Designation
1	Satheesan P M	Security Officer
2	Nidheesh P V	Driver
3	Babu	Driver
4	Ratheesh	Driver
5	Rajeevan k	Driver

### Introduction

Medical Library provides integrated library infrastructure for effective use of electronic resources. All administrative work involving purchase of Books, subscription of journals, scrutiny of bills for the payment, calling for tenders, quotations etc, are carried out, under this division.



### Departmental Library

Departmental Library was started in 2012 and at present we have 8 departmental and 2 divisional libraries.

### Departments

1. Department of Clinical Laboratory Services and Translational Research
2. Department of Surgical Oncology
3. Department of Imageology
4. Department of Clinical Haematology and Medical Oncology
5. Department of Cancer Registry and Epidemiology
6. Department of Community Oncology
7. Department of Oncology Nursing
8. Department of Onco anaesthesiology

### Divisions

1. Molecular Oncology
2. Medical Records

### Digital Duplicator Facilities

Digital duplicator/Print duplicator created to produce high volume of good quality print copies at lower cost than toner copies.

No of print taken from digital duplicator -10510

### List of Online Journals/Database purchased

1. Clinical Key
2. Ovid
3. Wiley online
4. UptoDate

**Number of Books issued during the period: 306**

## Hospital Library

A unique Hospital Library for patients, their relatives and staff is functioning in the centre since 2004. The library is funded by Kerala state Library council.

### Statistics

Number of Books Purchased	- 236
Number of Magazines subscribed	- 45
Number of Newspaper	- 5
Number of New Members	- 056
Total Number of Books issued	- 637
Total Number of Magazines issued	- 609

### Staff

Sl. No	Name	Designation
1	Subhash Chandran AK	Medical Librarian
2	Harish Babu	Asst. Librarian

## CLINICAL ADMINISTRATION AND PUBLIC RELATIONS DIVISION

### Introduction

The Clinical Administration and Public Relations Division manages the front office, reception, various social assistance schemes, insurances etc. Public relations and patient assistance are other core areas..



### Major patient welfare services

1. Chis Plus
2. Karunya Benevolent Fund
3. Sukrutham
4. Cancer Suraksha Scheme
5. Thalolam
6. Comprehensive Health Care Scheme for Scheduled Tribe
7. Snehasanthwanam for Endosulfan victims
8. RBSK
9. Society for Medical Assistance to the Poor
10. ESI Scheme
11. Pondichery Medical Relief Society
12. Prime Minister's Relief Fund
13. Chief Minister's Relief Fund
14. Patient Welfare fund of MCC

**DETAILS OF TRAINING FOR VARIOUS SPECIALITIES STUDENTS 2017 – 2018**

Speciality	No. of students
Medical Doctors	30
M.Sc Nursing	02
B.Sc Nursing	256
M.Sc. Physics	02
B.Sc. / M.Sc. MLT, B.Sc./ M.Sc Life Sciences	121
Bachelor in Audiology and Speech Language Pathology	25
B.Tech	05
MSW	15
ASAP DOT	04

**DETAILS OF FINANCIAL ASSISTANCE SCHEMES IMPLEMENTED IN MCC 2017 – 2018**

Schemes	No. Of Patients	Amount
CHIS PLUS	4192	102390509
Karunya Benevolent Fund	4943	172893471
Sukrutham	794	35370178
Comprehensive Health Care Project	207	5706829
ESI	155	8891585
PMNRF	108	4627892
Cancer Suraksha Scheme	77	6544915
PMRS	37	2011049
Thalolam	16	431428
SNEHASANDWANAM	31	2554651
Patient Welfare Fund	22	292329
ASWAS	6	45998
RBSK	1	55428
Total	10,589	34,18,16,262

Total patients treated through schemes- 10,598

Total amount used- Thirty four crores eighteen lakhs sixteen thousand and two hundred and sixty two

## KERALA STATE RIGHT TO SERVICE ACT – 2012

Kerala State Right to Service Act – 2012 was implemented in MCC from 2014 May onwards. During the year 2017 – 18, 26, 819 applications have been received for various services and the same has been resolved within time limit. The details are shown below:

Sl. No.	Name of Service	No. of applications received
1	Right to obtain Medical Certificates/Treatment Certificates for various purposes	8020
2	Right to obtain Certificates for financial assistance from various sources	5761
3	Right to obtain Certificates for re imbursement claims for investigations/treatment	266
4	Right to obtain Train concession forms for cancer patients	12772
Total		26819

There was no complaint on delay in processing received

### Malayalam – Official Language

- More than 95% of the files in MCC are in Malayalam language
- Formed Bharana Bhasha Ekopana Samidhi
- Formed Paribhasha Cell

SL.No	Total No. of files	No. of files in Malayalam	No. of files in English	% of files in Malayalam
2017 - 2018	4353	4121	232	95%

### Staff:

Sl. No	Name	Designation
1	Mr. C S Padmakumar	Public Relation Officer
2	Mrs. Mahija P M	Hospital Assistant
3	Mrs. Shyni D. R	Hospital Assistant
4	Mrs. Bindu V	Hospital Assistant
5.	Mrs. Reena K	Hospital Assistant
6	Mrs. Anupama Achuthan	Hospital Assistant
7	Mrs. Sreeja K	Hospital Assistant
8	Mrs .Bhavana Moukthi M.B	Hospital Assistant
9	Mrs.Remya V	Hospital Assistant
10	Mrs.Soorya M.C	Hospital Assistant
11	Mrs.Bindu T.N	Hospital Assistant
12	Mrs.Honey Mol	Hospital Assistant
13	Mrs.Aswani V	Hospital Assistant
14	Mr. Rajeevan U	Telephone Operator
15	Mr. Rathish	Attender

# DEPARTMENT OF ONCOLOGY NURSING



## Introduction

Oncology Nursing Department is one of the vital departments in any cancer centre. The department is being developed as a training unit apart from its service responsibilities. The nurses are trained regularly in recent advances in the management of cancer and the concepts in management. Nurses are involved in reviewing articles and conducting CNE to ensure that acquisition of knowledge is transferred to better patient care.

## Activities and achievements

- Nurse's day celebrated on 12th MAY 2017. Awards distributed for Best Nurse, Best Nursing Assistant, Best Ward and Best Department.
- Smt. Sindhu.N.R received Florence Nightingale Award 2017.
- Conducted CNE 'JAGRITI'- Patient education in Nurses role, on 20th August 2017.
- CNE 'CURIE'- Radiotherapy and Nursing aspects conducted on 18th February 2018.
- HIC (Hospital Infection Control) programme started and implemented in 2017 and functioning actively.
- Distress thermometer implemented in wards and training given to staff nurses. It became the sixth vital sign in MCC
- Training in Biomedical waste management was conducted regularly.
- **In-service education**
- Regular classes on transfusion reaction, paediatric oncology, shock, ECG, Spillage, Management, end of life care etc.
- Advanced technology in housekeeping started.

## Staff

Sl. No	Name	Designation
1	M V Subadra	Nursing Superintend
2	Shyni A F	Head Nurse
3	Liby George	Head Nurse
4	Sreelatha N	Staff Nurse - Gr. II
5	Sabitha	Staff Nurse - Gr. II
6	Sindhu N R	Staff Nurse - Gr. II
7	Maya PK	Staff Nurse - Gr. II
8	Sheeja N	Staff Nurse - Gr. II
9	Bijitha P	Staff Nurse - Gr. II
10	Smitha Grace	Staff Nurse - Gr. II
11	Sindhu S	Staff Nurse - Gr. II
12	Shaia E	Staff Nurse - Gr. II
13	Navamy T C	Staff Nurse - Gr. II
14	Seena E	Staff Nurse - Gr. II
15	Jisha k	Staff Nurse - Gr. II
16	Kavitha C N	Staff Nurse - Gr. II
17	Saritha N	Staff Nurse - Gr. II
18	Ligy Jose	Staff Nurse - Gr. II
19	Sajina N	Staff Nurse - Gr. II
20	Smithamol D	Staff Nurse - Gr. II
21	Sujatha K	Staff Nurse - Gr. II
22	Sheena C	Staff Nurse - Gr. II
23	Prajina E	Staff Nurse - Gr. II
24	Sreeja Kumari	Staff Nurse - Gr. II
25	Saritha K R	Staff Nurse - Gr. II
26	Remya M	Staff Nurse - Gr. II
27	Sunitha Kumari	Staff Nurse - Gr. II
28	Asha mol M A	Staff Nurse - Gr. II
29	Anuthara R	Staff Nurse - Gr. II
30	Jemy Mathew	Staff Nurse - Gr. II
31	Shiji Paulose	Staff Nurse - Gr. II
32	Sumi P R	Staff Nurse - Gr. II
33	Bindu Raman	Staff Nurse - Gr. II
34	Shibi Mol	Staff Nurse - Gr. II
35	Shabina P	Staff Nurse - Gr. II
36	Blassy P	Staff Nurse - Gr. II
37	Athira K	Staff Nurse - Gr. II
38	Sherjin	Staff Nurse - Gr. II
39	Jaleema M L	Staff Nurse - Gr. II



40	Shijila V	Staff Nurse - Gr. II
41	Sajitha P	Staff Nurse - Gr. II
42	Sibi K Daniel	Staff Nurse - Gr. II
43	Jisha P	Staff Nurse - Gr. II
44	Asha John	Staff Nurse - Gr. II
45	Sreejisha P	Staff Nurse - Gr. II
46	Nirmala N	Staff Nurse - Gr. II
47	Shiji P	Staff Nurse - Gr. II
48	Suma Devi	Staff Nurse - Gr. II
49	Shimna S	Staff Nurse - Gr. II
50	Silja Kurian	Staff Nurse - Gr. II
51	Sachithra	Staff Nurse - Gr. II
52	Abhina	Staff Nurse - Gr. II
53	Abhilash PS	Staff Nurse - Gr. II
54	Soumya Mathew CM	Staff Nurse - Gr. II
55	Anjana GN	Staff Nurse - Gr. II
56	Sajika MJ	Staff Nurse - Gr. II
57	Vijina K	Staff Nurse - Gr. II
58	Divya CM	Staff Nurse - Gr. II
59	Abdul Majid P	Staff Nurse - Gr. II
60	Ajayakumar VD	Staff Nurse - Gr. II
61	Ameer Sanchani O	Staff Nurse - Gr. II
62	Rinsha PK	Staff Nurse - Gr. II
63	Jithin TP	Staff Nurse - Gr. II
64	Soumya PG	Staff Nurse - Gr. II
65	Varsha VV	Staff Nurse - Gr. II
66	Jayasree VK	Staff Nurse - Gr. II
67	Shamseer K	Staff Nurse - Gr. II
68	ChithraVeena B	Staff Nurse - Gr. II
69	Gis Jose	Staff Nurse - Gr. II
70	Aswani Raj	Staff Nurse - Gr. II
71	Remya O	Staff Nurse - Gr. II
72	Nidhina KP	Staff Nurse - Gr. II
73	Lethiamma P R	Nursing Assistant
74	Jerry A	Nursing Assistant
75	Kalamol G	Nursing Assistant
76	Deepa Prabha	Nursing Assistant
77	Baiju B	Nursing Assistant
78	Shobidha L	Nursing Assistant
79	Biju Prasad	Nursing Assistant
80	Shibu S	Nursing Assistant
81	Mary I C	Nursing Assistant
82	Mercy John	Nursing Assistant

83	Ajimol Dominic	Nursing Assistant
84	Sreejith S	Nursing Assistant
85	Dhanya P M	Nursing Assistant
86	Dhaya E	Nursing Assistant
87	Shibila K	Nursing Assistant
88	Rekha M	Nursing Assistant
89	Midhun G	Nursing Assistant
90	Neethu BS	Nursing Assistant
91	Shamla N	Nursing Assistant
92	Bindu KM	Nursing Assistant
93	Nisha T	Nursing Assistant
94	Ragi Sindhya	Nursing Assistant
95	Rehana T	Nursing Assistant
96	Zeenath	Nursing Assistant
97	Shanthini	Nursing Assistant
98	Prajina E K	Nursing Assistant
99	Jinshi RS	Nursing Assistant
100	Kavitha Prakash	Nursing Assistant
101	Sajna KK	Nursing Assistant
102	Silna KK	Nursing Assistant
103	Abitha CA	Nursing Assistant
104	Jiji PS	Nursing Assistant
105	Suma S.	Nursing Assistant

# RESEARCH

Research in Malabar Cancer Centre is conducted as per the ICMR guidelines and academic research guidelines specific for the institution is prepared. Research being a major responsibility of the institution, all efforts is taken to maintain the highest ethical and scientific standards. Malabar Cancer Centre is involved in cutting edge clinical research in major Oncological disciplines and it emphasizes on interdisciplinary research. The Institutional Review Board is responsible for overseeing the scientific and ethical issues associated with any research conducted in the institute. The institute has memoranda of understanding with several governmental organizations so that their expertise can be used in clinical research .In order to ensure that research is conducted under the most stringent conditions the institute has an Institutional Review Board(IRB).

The IRB is made of two separate bodies

1. The Scientific Review Committee (SRC)
2. The Institutional Ethics Committee (IEC).Both these bodies are constituted as per the guidelines provided by the ICMR for conducting biomedical research

## Scientific Review Committee (SRC)

The SRC meets twice in every month (2<sup>nd</sup> and 4<sup>th</sup> Saturday) and / or as and when required.SRC is responsible for reviewing the scientific merit of any new research proposal. All research proposals have to be submitted by the first week of every month so that it can be reviewed by the SRC. Once studies are approved by the SRC, they are submitted to the IEC for ethical approval all academic staff are trained in Good clinical practices. It is a mandatory requirement for conducting clinical research in MCC.

## Scientific Review Committee Members

SL. No	Name	Designation & Department
1	Dr. Satheesan B	Professor, Dept of surgical Oncology
2	Dr.Sangeetha K Nayanar	Professor, Department of Clinical Lab service & Translational Research
3	Dr. Chandran K Nair	Professor, Department of Clinical Hematology and & Medical Oncology
4	Dr.Sajith Babu T P	Associate Professor, Dept of surgical Oncology
5	Dr.Geetha M	Associate Professor, Department of Radiation Oncology
6	Dr. Parthipan Rudrapathy	Associate Professor, Division of microbiology
7	Dr.Pramod Sankar S	Associate Professor, Department of Dentistry & Rehabilitation
8	Dr.Satheesh Babu	Associate Professor, Department of Imageology

9	Dr. Nived K	Associate Professor, Department of Onco-Anesthesiology
10	Dr.Sithara Aravind	Associate Professor, Division of Oncopathology
11	Mrs.Maya Padmanabhan	Office bear, Division of Clinical Research & Biostatistics

### Research Proposals Approved by SRC

Sl. No	Project Title	Principal Investigator
1	Protein profiling for identifying the Febrile reaction in Multi Transfused patients following platelet transfusion	Dr. Mohandoss
2	Temperal accuracy, transit time and timer linearity of HDR Brachy therapy source	Mrs. Silpa Ajaykumar
3	Source strength verification and survey of HDR brachytherapy unit	Mrs. Silpa Ajaykumar
4	Output Calibration of Electron Beam	Mrs.Soumya N M
5	Output Calibration of Photon Beam	Mrs.Resmi K Bharathan
6	Percentage Depth dose variation with field size	Mrs. Suja C A
7	A Dosimetric Study of Leipzig-style applicator with electron beam for the treatment of superficial malignancies	Mrs. Suja C A
8	Dosimetric study of small circular cutouts for electron beam therapy	Mrs.Resmi K Bharathan
9	Spectrum of cervical Cytologic patterns in high risk groups-experience from early cancer detection camps by a cancer centre in North Malabar Region of South India	Sabna Dev S K, Nimi G K
10	Role of intra oral FNAC as a diagnostic tool in evaluating oral and oropharyngeal lesions in a rural cancer centre	Dr. Kandathil Joseph Philip
11	Randomized Controlled Trial Assessing addition of neoadjuvant and maintenance oral metronomic chemotherapy to standard surgery and adjuvant therapy in stage III, IV operable oral cancers	Dr. Vinin N.V
12	SABR in lung cancer : Experience from a Tertiary Cancer Centre	Dr. Joneetha Jones
13	Patients attitudes after cancer disclosure	Dr. Satheesan B, Dr. Rigved N
14	Profile of pain score and analgesic usage in children with hematological malignancies treated at a tertiary cancer centre	Dr. M S Biji
15	Dosimetric Evaluation of out of field Measurement	Mrs. Silpa Ajaykumar
16	Dosimetric study of cone defined stereotactic Radiosurgery fields with diamond and diode detectors	Mrs.Soumya N M
17	Thermography device for the early detection and screening of breast cancer- A pilot	Dr.Satheesan B
18	Metaplastic Breast Carcinoma- 5 years retrospective audit study in a cancer centre of Northern Malabar in Kerala	Dr. Kandathil Joseph Philip
19	Molecular Classification of Breast cancer using IHC markers and a comparison of Behaviour and Prognosis	Dr. Sajith K Satheesh

20	Role of risk stratification in community based cancer screening: a five year audit of early cancer detection program conducted by a tertiary cancer centre from northern Kerala	Dr.Satheesan B
21	Effectiveness of clinic based tobacco cessation treatment in quitting tobacco habit: Experience from a tertiary cancer centre	Dr.Satheesan B
22	Clinical profile and outcome of Hyponatremia in post operative cancer patients treated at a tertiary care hospital in northern Kerala	Dr.Sajith Babu
23	Cancer pattern, risk habits, treatment and followup rate of tribals at a tertiary cancer care centre in northern Kerala,India	Dr. Saina SunilKumar
24	Evaluation of PD1 Pathway in AML and MDS-A pilot study	Dr.Deepak Roshan VG
25	Comparative analysis of contrast enhanced ultrasound and MRI in prediction of Residual disease following unplanned excision of soft tissue sarcoma among patient treated at a tertiary cancer hospital in northern Kerala	Dr.Satheesan B
26	Comparison of two contouring methods of bone marrow and correlation with bone marrow toxicity in patients with carcinoma cervix receiving IMRT with concurrent chemotherapy- pilot study	Dr. Greeshma K. E
27	A study to assess the impact of currently practicing pain control measures in various cancers in MCC	Dr.Satheesan B
28	Clinical outcomes and dosimetric evaluation of interstitial brachytherapy in gynecological malignancies	Dr. Vinin N.V
29	Clinico pathologic pattern of central nervous system tumors- 5 year retrospective study at a cancer centre	Dr.sunitha Gattlgorla
30	Histopathological and immunohistochemical appraisal of oropharyngeal squamous cell carcinoma cases from a tertiary cancer centre of south India	Dr. Deepak Pandiar
31	Correlation of histopathologic immune histo chemical and EGFR mutation status in pulmonary adeno carcinoma-Initial experience in a tertiary cancer centre	Dr.Noushad A
32	Is oral metronomic chemotherapy the way ahead for advanced head & neck cancer treated with palliative intent	Dr. Vinin N.V
33	Involved site radiotherapy for early stage diffuse large B cell Lymphoma – A phase III trial	Dr. Praveen Kumar Shenoy
34	Identification of novel serum on blood based biomarkers for screening colon cancer- using proteomics	Dr. Deepak roshan
35	Adjuvant short course Trastuzumab- Single institution experience from India	Dr. Manu Prasad
36	An invitro evaluation to reposition dapson as an anticancer drug	Dr.Renjith P Nair
37	Analysis of patients with rare uterine malignancies at a tertiary cancer center in North Kerala	Dr. Greeshma K. E
38	Online early cancer detection camp management system	Dr. Sajini Samuel
39	Design of EMG controlled Bionic arm	Dr. Sajini Samuel
40	Online Institutional Review board Management System	Dr. Sajini Samuel

41	Design of Dumb Aid telephonic system	Dr. Sajini Samuel
42	Design of a capacitively coupled sensor driven ECG	Dr. Sajini Samuel
43	A study of waiting time in outpatient department in Malabar cancer centre	Dr. Sajini Samuel
44	A study on disease progression in non small cell carcinoma lung patients treated with definitive chemoradiation	Dr. Shoaib Nawaz P.N
45	Thyroid gland- evaluating the need for a dose volume constraint	Dr. Anindya Mukherjee
46	Retrospective evaluation of outcomes of neoadjuvant chemotherapy followed by radical surgery in adeno carcinoma esophagus	Dr. Anindya Mukherjee
47	A study to compare motorized wedge and enhanced dynamic wedge	Mrs. Resmi K Bharatan
48	A retrospective study on the correlation of serum CA-125 to the different stages patients with Ovarian cancer at a tertiary care cancer centre	Dr. Sindhu E R
49	Evaluation of absolute lymphocyte count and lymphocyte mono-cyte ratio in B cell and T cell lymphoma- a retrospective study	Dr. Sindhu E R
50	Study the effect of Dasatinib on B2A2 and B3A2 type cell lines	Dr. Deepak Roshan
51	Analysis of differential protein expression in B3A2 and B2A2 cell lines using 2D PAGE	Dr. Deepak Roshan
52	Study the effect of imatinib on B2A2 and B3A2 type cell lines	Dr. Deepak Roshan
53	Effect of aqueous extract of <i>Moringa Oleifera</i> on doxycycline induced cell death	Dr. Renjith P Nair
54	Effect of aqueous fruit extract of <i>Momordica charantia</i> on doxycycline induced cell death	Dr. Renjith P Nair
55	Practice and perception pain management of children with hematological malignancies at a tertiary cancer centre	Dr. Biji M S
56	Clinical and equipment related factors influencing adequate peripheral blood stem cell collection in autologous transplant- a retrospective cohort study at tertiary cancer centre	Dr. Mohandoss M
57	Cost effectiveness evaluation of autologous stem cell transplantation among transplant eligible multiple myeloma patients	Dr. Chandran K Nair
58	Clinical outcome of palliative oral metronomic chemotherapy in head and neck cancer patients coming to a tertiary cancer centre	Dr. Vinin N.V
59	The effect of duration of perioperative period in disease free interval of carcinoma ovary patients who underwent interval upto reductive surgery	Dr. Adarsh D
60	Incidence of human papilloma virus (HPV) types in lung cancer patients a tertiary care cancer centre at north Kerala	Dr. Parthiban
61	Prevalence of Aerobic bacteria and their antibiotic sensitivity pattern causing respiratory infections among cancer patients in tertiary care centre	Dr. Sajini Samuel
62	Microbial Sepsis in a tertiary cancer centre: microbiological spectrum and antimicrobial susceptibility profiles	Dr. Saravanan

63	Phenotypic detection of Metallo-Beta Lactamase(MBL) producing <i>Enterobacteriaceae</i> and their prevalence in a tertiary care cancer centre	Dr.Parthiban
64	Outcome of patients with advanced inoperable pancreatic cancer: A single institution experience	Dr. Praveen Kumar Shenoy
65	Estimation of lung dose and its association with pnemonitis following radiotherapy in breast cancer patients	Dr.Geetha M
66	Factors contributing to weight loss in patients on radiation therapy fro head and neck cancers	Dr. Geetha M
67	Analysis of acute hematological toxicities of cervix treated with concurrent chemo radiation	Dr. Greeshma K. E
68	Appraisal and classification of soft tissue cases at a cancer centre in south India-a retrospective study	Dr. Sangeetha K Nayanar
69	Quantification of photon contamination for different electron energies	Mrs. Silpa Ajaykumar
70	Utility of dynamic contrast enhanced Ti weighted MRI in the assessment of uterine and vaginal recurrence after radiotherapy	Dr. Satheesh Babu T V
71	Comparative diagnostic performance of sonomammogram and iABUS in breast lesion detection in women referred for screening to MCC	Dr. Satheesh Babu T V
72	Role of diffusion weighted magnetic resonance imaging in predicting treatment response following chemo radiotherapy in patient with advanced carcinoma rectum	Dr. Satheesh Babu T V
73	Organ at risk doses during high dose rate intra cavity Brachytherapy for cervical cancer-A dosimetric study	Dr. Vinin N.V
74	Decentralization of cancer screening through associate centers: a community based pilot study	Dr. Neethu A.P
75	Assessment of financial burden in patients with head and neck cancer undergoing curative intent treatment	Dr. Geetha M
76	Assessment of depth dose variation due to introduction of inhomogeneous material	Mrs. Silpa Ajaykumar
77	Cross calibration of ionization chambers	Mrs. Resmi K Bharathan
78	Output comparison of SRS cone and MLC shaped field	Mrs. Suja C A
79	Dosimetric impact of applicators in electron beam therapy	Mrs. Resmi K Bharathan
80	A Comparative study of early detection and screening of breast cancer with fluke and DAQ device” – a pilot study	Dr. Satheesan B

81	Construction and Validation of Cancer Screening Attitude Scale	Dr. Satheesan B
82	Protein profiling for identifying the Febrile Reactions in Multi Transfused patients following platelet transfusion	Dr. Mohandoss
83	Patients attitudes after cancer disclosure	Dr. Satheesan B
84	Randomized controlled trial assessing addition of neoadjuvant and maintenance oral metonomic chemotherapy to standard surgery and adjuvant therapy in stage III/IV operable Oral Cancers	Dr. Vinin, Dr. Sajith Babu
85	Spectrum of cervical cytologic patterns in high risk groups- Experience from early cancer detection camps by a cancer centre in north Malabar region of South India	Dr. Sangeetha K Nayanar
86	Evaluation of PD1 Pathway in AML and MDS-A pilot study	Dr. Chandran
87	Comparative analysis of contrast enhanced ultrasound and MRI in prediction of Residual disease following unplanned excision of soft tissue sarcoma among patient treated at a tertiary cancer hospital in northern Kerala	Dr. Vivek M.A
88	Role of risk stratification in community based cancer screening: A five year audit of early cancer detection program conducted by a tertiary cancer centre from northern Kerala	Dr. Phinse M Philip
89	Effectiveness of clinic based tobacco cessation treatment in quitting tobacco habit: Experience from a tertiary cancer centre	Dr. Phinse M Philip
90	Clinical profile and outcome of Hyponatremia in post operative cancer patients treated at a tertiary care hospital in northern Kerala	Dr.Sajith Babu
91	Comparison of two contouring methods of bone marrow and correlation with bone marrow toxicity in patients with carcinoma cervix receiving IMRT with concurrent chemotherapy- pilot study	Dr.Greeshma K.E
92	Histopathological and immunohistochemical appraisal of oropharyngeal squamous cell carcinoma cases from a tertiary cancer centre of south India	Dr. Deepak Pandiar
93	Involved site radiotherapy for early stage diffuse large B cell Lymphoma – A phase III trial	Dr.Praveen Kumar Shenoy
94	Identification of novel serum on blood based biomarkers for screening colon cancer- using proteomics	Dr.Deepak Roshan V.G



## Institutional Ethics Committee

Constituted as per ICMR guidelines in August 2013. The IEC meets once in every three months and / or as and when required

Sr. No.	Name & Qualifications	Designation with Address, e-mail ID & Contact Number	Position in the Institutional Ethics Committee
1	<b>Dr. T. N. Babu Ravindran,</b>	Senior Medical Consultant Indira Gandhi Co-Operative Hospital Manjodi, Thalassery, Dist.: Kannur, Kerala, India PIN- 670 103.	Chairperson
2	<b>Dr. Satheesan Balasubramanian</b>	Director, Malabar Cancer Centre, Thalassery, Kerala, India. PIN 670 103.	Member Secretary
3	<b>Dr. Purushotham Basappa</b>	Professor, Department of Pathology, Kannur Medical College & Hospital, Anjarakandy P.O., Kannur, Kerala, India. PIN- 670 612.	Member (Basic Medical Scientist)
4	<b>Dr. Balakrishnan Valliyot,</b>	Professor of Medicine Head, Centre for Medical Research & Non-communicable diseases, Academy of Medical Sciences, Pariyaram, Kannur-670503, Kerala,	Member (Scientist)
5	<b>Dr. D. Vijay Kumar</b>	Principal, College of Pharmacy, Anjarakandy Integrated Campus, Anjarakandy PO, Kannur - 670612 Kerala, India.	Member (Pharmacology)
6	<b>Dr. Sangeetha K. Nayanar</b>	Professor & Head, Department of Clinical service & Translational Research, Malabar Cancer Centre, Thalassery, Kerala, India. PIN 670 103	Member (Basic Medical Scientist)
7	<b>Dr. M S John</b>	Professor & Head, Department of International Relations, Director of Research & Chief Vigilance Officer, Central University of Kerala, Periyar, Tejaswini Hills, Kasargod, 671 316	Social scientist

8	<b>Mrs. Kavitha Balakrishnan</b>	Assistant Professor, Head of the Department, Department of Law School or Legal Studies, Kannur University, Thalassery Campus, P.O. Palayad, Kerala, India. PIN-- 670 661	Member (Legal Expert)
9	<b>Rev.Fr Thomas Thengumpally</b>	Judicial Vicar, Arch Bishop House, Thalassery, PB No. 70 Kerala, India. PIN -670101. e-mail ID: frsajan@gmail.com	Member (Theologist)
10	<b>Adv. John Joseph</b>	Advocate, near District Court, Thalssery, "Thalackal" House, Nangarath-Peedika, Temple Gate P.O., Thalassery, Kannur, Kerala, India. PIN- 670 102	Member (Legal Expert)
11	<b>Mr. G.V. Rakesh</b>	Correspondent Mathrubhumi Daily, G.V. House, Ponniam P.O. , Thalassery, Kannur, Kerala, India. PIN- 670641.	Member (Lay Person)
12	<b>Dr. K. R. Vasudevan</b>	Consultant Physician, "ARCHANA", Kovilakam Road, Nilambur (P.O), Malappuram, Kerala, India. PIN- 679329	Member (Clinician)
13	<b>Mrs. Chinnammu Sivadas,</b>	Managing Trustee, <i>SalilSivadas</i> Foundation, "SalilBhavan", P.O. Sivapuram, Dist. Kannur, Kerala, India. PIN 670 702.	Member (Social Scientist)

## Scientific Advisory Committee

Scientific advisory committee will periodically review the training, services and research activities of the Malabar Cancer Center and evaluate and make recommendations to the Executive Committee (EC) and Governing Body of the Malabar Cancer center.

S.No	Name & Designation	Position
1.	<b>Dr. T G Sagar</b> (Chairperson) Director, Cancer Centre (Adayar), Chennai-600 020, India	Chairman
2.	<b>Dr.R.M.Nehru</b> (Vice-Chairperson), Officer-in-Charge, Scientific Officer "G" Southern Regional Regulatory Centre, Atomic Energy Regulatory Board, Anupuram – 603127, Kancheepuram District Tamil Nadu,India	Member
3.	<b>Dr. Manoj V Murhekar</b> , Scientist “F” National Institute of Epidemiology (ICMR) 2 <sup>nd</sup> Main Road, Tamil Nadu Housing Board, Ayapakkam, Near Ambattur, Chennai-600 077	Member
4.	<b>Dr. K Jayakumar</b> Associate Professor & HOD, Department of Statistics, University of Calicut, Malapuram Dist., Kerala- 673 635, India	Member
5.	<b>Dr. K B Linge Gowda</b> Director, Kidwai Memorial Institute of Oncology, Dr. M. H. Marigowda Road, Bangalore-560029, Karnataka, India	Member
6.	<b>Dr. C. Sadasivan</b> Professor & HOD, Department of Biotechnology & Microbiology, Kannur University, Thalassery Campus, Kannur, Kerala	Member
7.	<b>Dr. Ajith Kumar</b> Dean (Research), Kerala University of Health Sciences Thrissur, Kerala-680 596, India	Member
8.	<b>Dr. Shripad D. Banavali</b> Professor & HOD, Department of Medical & Pediatric Oncology, Tata Memorial Hospital, Parel, Mumbai-400 012, India	Member
9.	<b>Dr. Satheesan Balasubramanian</b> (Convenor) Director, Malabar Cancer Centre, Thalassery, Kannur, Kerala-670 103, India.	Convenor-Member

## Research Publications

1. Effect of pre-donation fluid intake on fluid shift from interstitial to intravascular compartment in blood donors ,Chenna Deepika, Mohandoss Murugesan, Shamee Shastry., *Transfusion and Apheresis Science* 57 (2018) 54–57
2. Factors Associated with Survival and Lost to Follow-up of Cervical Cancer Patients in a Tertiary Cancer Centre in Rural Kerala, T. Bindu, Saina Sunilkumar, Ratheesan, Satheesan Balasubramanian, *Indian Journal of Public Health*, Volume 61, Issue 1, January- March 2017.
3. Clinical Significance of Nodal Positivity Following Neoadjuvant Chemotherapy in Epithelial Ovarian Cancer, Noori Khalid ,Sampada B. Dessai, Bindu Anilkumar, Adarsh Dharmarajan, Preeti Yadav, Sithara Arvind,B. Satheeshan, *Indian Journal of Gynecologic Oncology*,December 2017
4. Believing Jeny about her pain, M.S.Biji, *Journal of Pain & Palliative care Pharmacotherapy*. Volume 31,2017,Issue 1,page 73-75.
5. Validation of malayalam version of national comprehensive cancer network distress thermometer and its feasibility in oncology patients, MS Biji, Sampada Dessai, N Sindhu, Sithara Aravind, B Satheesan, *Indian Journal of Palliative care*,2018, Vol.24,iissue1,page 67-71
6. The incidence and risk factors for development of lower limb lymphedema after treatment for gynaecological cancers,Noori Khalid , Adarsh Dharmarajan, Satheeshan B. , Biji M. S. , Abina S. S. , Remya Binesh,*International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 2018 Mar;7(3):1168-1172
7. Osteonecrosis of the jaw among patients receiving anti-resorptive medication: A 4-year retrospective study at a tertiary cancer center, Kerala, India,Pramod S Sankar, SA Thilak, P Nayak, JP Tripathy, B Satheesan, AV Rajitha, *Contemporary of clinical dentistry*,Year : 2018 ,Volume : 9,Issue : 1, Page : 35-40
8. Papillary Neoplasms Of Breast- Experience At A Cancer Centre In South India , Sithara Aravind, Sangeetha K Nayanar, Noushad Aryadan, Sajith K Satheesh, Sampada Desai, Satheesh Babu TV Sch. *Acad. J. Biosci.*, 2017; 5(3):159-163
9. Primary extranodal lymphomas in the head and neck region- A retrospective study from a tertiary cancer centre in South India,Sithara Aravind, Sangeetha K N, Sreejyothi H K, Vineetha R, Chandran K N- *International Journal of Recent Scientific Research* Research Vol. 8, Issue, 3, pp. 16245-16248, March, 2017
10. Clinico-pathological profile of salivary gland tumors:initial experience at a cancer centre in South India, Sithara Aravind, Sangeetha K Nayana,r Bithun Balan.K, Sujith Kumar M, Suriy Salih. *Indian Journal of Applied Research* Volume - 7 | Issue - 7 | July - 2017 | ISSN - 2249-555X | IF : 4.894 | IC Value : 79.96
11. High Grade Serous Adenocarcinoma Of Testis- Case Report Of A Rare Ovarian Epithelial Type Tumor,Sithara Aravind, Sangeetha K Nayanar, Varadharaja Perumal.R, Satheeshbabu TV, Satheesan Balasubramanian- *Journal of Clinical and Diagnostic Research*. 2017 Jun, Vol-11(6): ED13-ED15
12. Non iodine avid bone metastasis from differentiated thyroid cancers; a case series. Sudheesh M, Sajith Babu, Satheesan B. *Journal of Clinical and Diagnostic Research*, 2017
13. Thyrolingual trunk arising from common carotid artery- A case report. Santhosh Kumar N, Sajith Babu, Sudheesh Manoharan. *Journal of Clinical and Diagnostic Research* : Vol 11 (8); Aug 2017, AD01-02; DOI 10.7880/JCDR/2017/23144.10365
14. Does adverse histopathological features like perineural invasion, depth of invasion and lymphovascular invasion warrant adjuvant treatment in early oral squamous cell carcinoma? Thiagarajan S, Thavarool SB, Kadappa N, Nadini H. *J Head Neck Physicians Surg* 2017;5:71-4.
15. Inflammatory Myofibroblastic Tumour--An Unusual Tumour with Intermediate Malignant Potential-Report of Three Cases, Indusarath; Nayanar, Sangeetha K.; Pareekutty, Nizamudheen M.; Satheesan, B.; Babu, Satheesh, *Journal of Clinical & Diagnostic Research* . Dec 2017, Vol. 11 Issue 12, p1-3. 3p.

16. Para testicular spindle cell variant of embryonal rhabdomyosarcoma – A case report Kandathil Joseph Philip , Sangeetha K Nayanar , Ramadas Panayamthatta, Scholars Journal of Medical Case Reports, Sch J Med Case Rep 2017; 5(1):1-4
17. Clinico-pathological Study of Limb Salvage Surgery for Osteosarcoma: Experience in a Rural Cancer Center., Divya Vijayanarasimha, Sangeetha K Nayanar, Syam Vikram, Vijay M Patil, Satheesh Babu, Satheesan B, Indian J Surg Oncol 2017 Jun 30;8(2):136-141. Epub 2016 Aug 30.
18. Community based oral cancer screening program conducted by a Tertiary Cancer Centre in Kerala –A two year audit, Phinse Mappalalayil Philip, Neetu Ambali Parambil, Satheesan Balasubramanian, International Journal of Noncommunicable Diseases , November 2017 , Vol 2, Supplement 1
19. Diagnosis of tobacco related cancer has impact on consumption of tobacco among family members and friends of patients , Pareekutty NM, Chanduveetil J, Garg A, Chakrabarti S, Mair M, Bansode A, Chaturvedi P , Indian J Med Paediatr Oncol, 2018;39:73-4

## 20. Other Committees

Sl No.	Name of Committees
1	Academic Council
2	Administrative Council
3	Building Committee
4	Canteen Core Committee
5	Complaint Committee
6	CSR Committee
7	Patient Welfare Committee
8	Technical Committee
9	Stock Verification Committee
10	Data Monitoring & Safety Committee
11	Pre-bid Committee
12	Radiation Safety Committee
13	Waste Management Committee
14	Library Committee
15	Committees for various Purposes

## Regular Academic Programs

All new cases are presented in the Daily Multi Specialty Board which are reviewed and decisions on treatment taken accordingly. Interactive discussions on a specific topic are carried out on all Wednesdays afternoon in the Radiation Oncology Cub. All Friday morning, lectures on the recent trends in Oncological care by one faculty are carried out in the Centre. On Saturdays morning, Journal club/ lecture/ morbidity meet are carried out in the centre. Apart from the regular academic programs, Continuing Medical Education Program for Doctors and Post-Graduate Students of nearby Medical Colleges are organized by MCC.

## Courses at MCC

Sl No	Course	Duration	University/ Board
1	B. Sc MRT, (Medical Radiology Technology)	4 Years	Kerala University of Health Sciences
2	Basic Certificate Course in Community Palliative Nursing(BCCCPN)	6 weeks	Institute of Palliative Medicine, Kozhikode
3	Certificate Course in Community Palliative in Auxiliary Nursing Course(CCPAN)	3 Months	Institute of Palliative Medicine, Kozhikode
4	Fellowship in Head and neck oncology	1 Year	Institutional fellowship
5	Fellowship Programme in High Precision Radiotherapy	1 Year	Institutional fellowship
6	Fellowship in Gynec Oncology	2 Years	Institutional fellowship
7	Fellowship in Oncopathology	2 Year	Institutional fellowship
8	Fellowship in Head & Neck Pathology		
9	Fellowship in Nutrition Oncology	1Year	Institutional fellowship
10	Indian Association of Palliative Care Courses		
11	Distance education course in Cancer Pain and Palliative Medicine		
12	<b>MEDIT Course</b> <ul style="list-style-type: none"> <li>• Advanced Diploma in Health Information Technology</li> <li>• Advanced Diploma in Clinical Engineering</li> <li>• Diploma in Healthcare Hospitality Management</li> </ul>	6 Months	In association with c-Dit
13	Post Basic Diploma in Oncology Nursing	1 Year	Kerala Nursing Midwifery Council

# ACCOUNTS



REJEESH & ASSOCIATES  
CHARTERED ACCOUNTANTS

Phone 0490 2327474, 2327575 (O)  
0490 2320492, 2341402 (R)  
Mobile 9847175219  
e-mail [rkfca@rediffmail.com](mailto:rkfca@rediffmail.com)

S 2, Town Hall Complex, T.C. Road, Thalassery - 670 104

## INDEPENDENT AUDITOR'S REPORT

To,  
The Members,  
The Malabar Cancer Centre Society,  
Thalassery

### **Report on the Financial Statements**

We have audited the accompanying financial statements of THE MALABAR CANCER CENTRE SOCIETY, THALASSERY, which comprise the Balance Sheet as at 31<sup>st</sup> March 2018, Income & 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**

The Management of the Society is responsible for the preparation of these financial statements that gives a true and fair view of the financial position and financial performance of the Society. This responsibility includes the design, implementation and maintenance of internal control 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 risk assessments, the auditor considers internal control relevant to the Society's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimate made by 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 qualified audit opinion.

### **Basis for Qualified Opinion**

a) As stated in Note No.20(B)(6) attached to the accounts, the Society is accounting for retirement/ compensated absences due to employees on cash basis and not on actuarial basis which is contrary to the Accounting Standard 15 – Employee Benefits (Revised) issued by the Institute of Chartered Accountants of India.

The impact of the above deviation could not be ascertained at this stage.

### **Qualified Opinion**

In our opinion and to the best of our information and according to the explanations given to us, except for the possible effects of the matter described in the Basis for Qualified Opinion paragraph, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India :

- a) In the case of the Balance Sheet, of the state affairs of the Society as at 31<sup>st</sup> March, 2018, and
- b) In the case of Income & Expenditure account, of the excess of Expenditure over income for the year ended on that date.

### **Emphasis of Matter**

- a) We draw attention to Note No 20(B)(2)(a) regarding balance in Grant in Aid under Plan Fund in respect of certain completed projects.
- b) We also draw attention to Note No 20(B)(2)(b) regarding Grant-in-aid received under Plan Fund in respect of a project which is pending commencement/completion.

Our opinion is not modified in respect of these matters.

Place : Thalassery

Date : 31-10-2018



For REJEESH & ASSOCIATES  
Chartered Accountants

T. K. REJEESH  
(Proprietor)  
M. No. 203015



**MALABAR CANCER CENTRE SOCIETY, THALASSERY, KANNUR.**

**BALANCE SHEET AS AT 31-03-2018**

(Amount in Rs.)

PREVIOUS YEAR	CAPITAL & LIABILITIES	NOTE NO.	CURRENT YEAR	PREVIOUS YEAR	ASSETS	NOTE NO.	CURRENT YEAR
62,85,56,414	CAPITAL FUND	1	65,79,23,332	54,90,63,229	FIXED ASSETS	6	63,37,84,778
63,45,60,805	GRANT-IN-AID - CAPITAL GRANT (PENDING UTILISATION)	2	42,19,49,874	32,73,40,007	WORK IN PROGRESS UNDER PLAN FUND	6	30,81,35,274
12,97,99,498	ADVANCES & DEPOSITS	3	18,27,07,669	89,90,229	DEPOSITS AND ADVANCES	7	89,28,087
10,32,65,419	TRADE CREDITORS	4	14,76,96,204	30,44,40,994	TRADE DEBTORS	8	18,82,28,551
11,83,600	PATIENTS WELFARE FUND		22,27,390	5,97,76,681	CLOSING STOCK	9	5,33,99,303
6,11,600	SEMINAR EXPENSE FUND		5,45,249	65,36,89,905	CASH AND BANK BALANCES	10	14,47,83,171
53,25,717	OUTSTANDING LIABILITIES	5	31,04,117		SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON	20	
<b>1,50,33,03,895</b>			<b>1,33,72,59,124</b>	<b>1,50,33,03,855</b>			<b>1,33,72,59,124</b>

**AUDITORS REPORT**

With our separate report of even date attached.

For **REJESH & ASSOCIATES**  
Chartered Accountants

*(Signature)*

T. K. REJESH  
(Proprietor)  
M. No. 27/015

Place: Thalassery  
Date: 31-10-2018



**MALABAR CANCER CENTRE SOCIETY, THALASSERY, KANNUR,  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2018**

(Amount in Rs.)

PREVIOUS YEAR	EXPENDITURE	NOTE NO.	CURRENT YEAR	PREVIOUS YEAR	INCOME	NOTE NO.	CURRENT YEAR
29,11,47,895	To Pharmacy consumption	11	17,66,12,327	15,25,36,338	By Grant in aid - Revenue grant		11,03,82,895
17,03,01,848	Salary, stipend, wages and allowances	12	19,11,28,703	19,76,71,675	Revenue from Hospital Operations	15	21,40,55,461
73,20,265	Employer's contribution to provident fund		74,27,709	21,02,12,083	Pharmacy collection		18,67,15,381
15,61,898	Recruitment expenses		23,12,164	4,569	Teral Liquidation Charges Received		14,18,958
4,29,50,301	Consumables/Other treatment expenses	13	4,57,85,975	7,83,384	Rental Income		9,24,530
1,73,62,265	Energy charges	14	1,97,82,328	46,86,200	Income from Training & Teaching	16	32,24,860
12,61,400	Printing and stationery		11,39,659	29,30,714	Donations & Contributions	17	27,73,798
6,64,387	Postage and telephone expenses		6,64,980	2,81,125	Income from Early Cancer Detection Camp		1,51,308
6,07,036	Rates and taxes		3,77,861	61,000	Income from ambulance service		60,773
11,26,990	Travelling and conveyance expenses		7,35,421	98,52,858	Interest Income	18	77,54,788
12,30,033	Vehicle running and maintenance expenses		12,89,012	43,98,250	Provision for doubtful debts reversed		1,69,206
36,64,783	Repairs and maintenance		39,90,548	-	Other incomes	19	34,71,548
64,51,988	Security service charges		1,03,01,665	-	Excess of expenditure over income transferred to balance sheet		6,90,08,204
81,76,006	Cleaning and laundering charges		1,00,77,303	2,87,40,806			
44,74,325	Subscriptions		46,78,383				
32,12,895	Free food to patients and bystanders		26,78,287				
1,75,000	Auditors' fee		2,82,300				
4,43,553	Professional charges		11,16,473				
7,57,026	Insurance charges		8,50,800				
12,23,963	Advertisement Charges		23,65,868				
1,18,20,741	Annual maintenance contract charges		2,05,50,023				
1,08,677	Community ecology expenses		3,78,803				
47,000	Affiliation and registration fee		5,20,726				
8,37,848	Programme expenses		17,09,334				
11,36,764	Miscellaneous expenses		11,64,844				
8,24,13,368	Depreciation written off	6	9,46,78,887				
<b>36,20,19,252</b>			<b>64,19,13,783</b>	<b>36,20,19,252</b>			<b>64,19,13,783</b>

**AUDITORS REPORT**

Vide our separate report of same date attached.

Place: Thalassery  
Date: 31-10-2018



For HEJRESH & ASSOCIATES  
Chartered Accountants

T.K. HEJRESH  
(Proprietor)  
M. No. 111/015

THE MALABAR CANCER CENTRE SOCIETY, THALASSERY, KANNUR

NOTE NO 20:

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FORMING PART OF ACCOUNTS FOR THE YEAR ENDED 31<sup>st</sup> MARCH 2018.

A) SIGNIFICANT ACCOUNTING POLICIES:

1) BASIS OF PREPARATION OF FINANCIAL STATEMENTS:

The financial statements have been prepared under the historical cost convention and on accrual basis of accounting unless otherwise specifically stated.

2) USE OF ESTIMATES

The presentation of financial statements in conformity with the generally accepted accounting principles require estimates and assumptions to be made that affect the reported amount of assets and liabilities on the date of the financial statements and the reported amount of revenue and expenses during the reporting period. Difference between the actual result and estimates are recognized in the period in which the results are known/ materialized.

3) GRANT IN-AID:

a) Revenue Grant

Grant in aid received from Govt. of Kerala under non plan fund is considered as revenue grant and credited in the income and expenditure account as and when received.

b) Capital Grant

Grant in aid received from Govt. of Kerala, MPLAD Scheme and Govt. of India for Tertiary Cancer Centre under plan fund for infrastructure development is considered as capital grant. Grant in Aid received under plan funds is transferred and included under Capital Fund Account on completion of the project.

4) FIXED ASSETS:

Fixed assets are stated at cost of acquisition less depreciation. Fixed assets received as donations in kind are accounted at nominal value.

5) DEPRECIATION:

Depreciation on fixed assets has been charged under written down value method at the rates prescribed under the Income-Tax Rules except in the case of Library Books which are depreciated @ 15%.

6) INVENTORIES:

Inventories comprising medicines and consumables are valued at lower of cost or net realizable value, item wise. Cost of the above inventories comprises of all costs of purchase and other costs incurred in bringing the inventories to their present location after adjusting for VAT wherever applicable.



#### 7) EMPLOYEE BENEFITS:

The retirement benefits/compensated absences due to employees at the time of retirement/ termination are accounted for on cash basis.

#### 8) REVENUE RECOGNITION:

Revenue is recognized on accrual basis except revenue due from inpatients as on 31.03.2018 on various accounts like Room rent, Investigation charges, Surgery charges, Service charges etc. are recognized only at the time of their discharge.

Interest income is recognized on time proportion basis taking into account amount outstanding and rate applicable.

#### 9) PROVISIONS, CONTINGENT LIABILITIES AND CONTINGENT ASSETS:

Provisions are recognized when the Society has a present obligation as a result of a past event, for which it is probable that a cash outflow will be required and a reliable estimate can be made of the amount of the obligation. Provisions are discounted to its present value and are determined based on the society's estimate required to settle the obligation at the Balance Sheet date. These are reviewed at each Balance Sheet date and adjusted to reflect the correct Society's estimates.

Contingent liabilities are disclosed when the Society has a possible obligation or a present obligation and it is probable that a cash flow will not be required to settle the obligation.

Contingent assets are neither recognized nor disclosed in the accounts.

#### 10) IMPAIRMENT OF ASSETS:

The Society assesses at each Balance Sheet date whether there is any indication that an asset may be impaired. An asset is identified as impaired, when the carrying value of the asset exceeds its recoverable value. Based on such assessment, impairment loss if any is recognized in the Income and Expenditure Account of the period in which the asset is identified as impaired. The impairment loss recognized in the prior accounting periods is reversed if there has been a change in the estimate of recoverable amount.



## B. NOTES ON ACCOUNTS:

1. The Society is in possession of the building and hospital equipments gifted by a foreign source. The value of the said assets were not taken into account for want of proper details from the donor till 31-03-2005. Since the AG's audit team had suggested to capitalise the value of assets donated by SNC Lavlin, the management of the society had made a valuation of assets as on 31-03-2001 as Rs.10,85,37,233/- and it was accounted as Fixed assets and added to the Capital fund on 01-04-2005. The accumulated depreciation up to 31-03-2005 amounting to Rs.4,51,82,866/- was accounted as prior period expenses in the accounts for the year ended 31-03-2006. Since then normal depreciation on the above said fixed assets has been charged in the accounts.

### 2. GRANT IN AID

a) Balance in grant in aid under Plan Fund shown under the head 'Grant-in-Aid (Plan)' includes Rs.52.11 Lakhs, representing actual expenditure of eligible projects being less than the Grant in Aid received towards the said projects. The Society is in the process of obtaining the Administrative Sanction in respect of utilization of the said surplus amount for other eligible projects.

b) Balance in grant in aid shown under the head 'Grant-in-Aid(Plan)' includes Grant in Aid received under Plan Fund in respect of a project which is pending commencement/completion. Necessary steps are being taken to commence the pending project.

3. SNC Lavlin Inc, Canada had promised for a foreign contribution of Rs.2,530 Lakhs and the Society has obtained prior permission from the Ministry of Home Affairs, Government of India, vide their letter No: 11/21022/94(506)/2000-FCRA- 1Y dated 26/04/2001 under section 6(IA) of Foreign Contribution (Regulation) Act, 1976. However, no foreign contribution has been received as at the Year ended 31-03-2017.

4. Advances received under Patient Welfare Schemes represent amount received from Karunya Benevolent Fund, Sakrutham Anti Cancer Treatment Scheme, Prime Minister National Relief Fund, etc received towards the treatment facilities to be extended to individual patients. Further the society has also extended treatment facilities to various patients under these Patient Welfare Schemes prior to the receipt of amount under these schemes. The amount receivable under Karunya Benevolent Fund, based on the instruction No.KBF/B/57/2012 dated 21.10.2017, issued by the Administrator of Karunya Benevolent Fund, the amount received in advance towards the treatment of patients can be utilised towards the treatment of other patients under this scheme. Based on the said instruction, the amount receivable under the scheme are net off against the advance received. The society is in the process of compiling patient wise list receivable/payable under the KBF scheme and in the opinion of the society, the amount receivable under the scheme are fully receivable and no provision is required to be made at this stage.

5. Salary advance Rs.5.52 Lakhs represents temporary advances paid to two doctors deputed in the hospital during the period from August, 2009 to September, 2011, which were to be adjusted from the salary due to doctors from the State Government. The two doctors have already left their employment in the society and the advance is pending settlement as on date. Though the society is taking steps to recover the said advance, as a matter of abundant caution, the said amounts have been fully provided for in the books.

6. As given in Accounting Policy No 7, the society is following the practice of accounting of retirement/compensated absences due to employees on cash basis and the liability towards retirement/terminal benefits have not been quantified and not provided for.



7. The society has not received any intimation from suppliers regarding their status under the Micro, Small and Medium Enterprises Development Act, 2006 and hence disclosures, if any, relating to amount unpaid as at the yearend together with the interest paid/payable as required under the said Act have not been furnished.

8. Previous year's figures have been regrouped / reclassified wherever necessary in order to suit current year's disclosure.

Place: Thalassery

Date: 31-10-2018



For REJESH & ASSOCIATES  
Chartered Accountants

T. K. REJESH  
(Proprietor)  
M. No. 203015

## PATIENT WELFARE ACTIVITIES

The Patient Welfare Committee was constituted for the smooth functioning of our Patient Welfare Activities has attributed a boost to our patient services and management. The Committee consists of Doctors of different specialties, representatives from Administrative section, Social Scientist and Nursing personnel. The Committee co-ordinates the welfare activities of the patients who are undergoing treatment at this Centre. It promotes to raise the fund for the patient welfare fund from the general public as well as staff members of Malabar Cancer Centre. Majority of the staff members generously donate to this fund. This fund is utilized for the treatment/investigations for the needy patients after proper assessment.

### Patient Welfare Schemes

- Comprehensive Health Care Project for Scheduled Tribe patients.
- Prime Minister's National Relief Fund
- Chief Ministers Relief Fund
- Cancer Suraksha Scheme
- Thalolam
- Sneha Santhwanam
- CHIS PLUS
- PMRS (Pondicherry Medical Relief Society)
- Employees State Insurance Credit facility
- Karunya Benevolent fund

### Patient Free Food Scheme

As most of our patients belong to lower socio-economic strata struggling to earn for their meal, with the financial assistance from philanthropists and like-minded organizations, all in-patients are given food (three times a day) at free of cost.

### Patient Welfare Fund

The Patient Welfare Committee co-ordinates the welfare activities for the patients who are undergoing treatment at this Centre. It promotes to raise the money for the patient welfare fund from the general public as well as staff members of Malabar Cancer Centre. This fund is utilized for the treatment/investigations for the needy patients after proper assessment.

### Hospital Library for Patients and Relatives

A unique Hospital library for patients, their relatives and staff is functioning in the centre since 2005. The library is funded by Kerala State Library Council.

### Home care Services

Home care services provided to patients staying nearby and who are unable to travel to MCC for availing treatment.

### Drug Bank

Apart from the above a Drug Bank is also formulated for collection of drugs from Doctors in and around Thalassery and also sample medicines issued from various pharmaceutical companies. Such medicines are issued free of cost to the needy poor patients, who are undergoing treatment from this Centre.

### Support Groups

MCC initiates the formation of five supports groups for the welfare and rehabilitation of Breast and Colostomy, Bone Marrow Transplantation, All survivors, Limb Salvage Surgery patients;

- 1) Thejas: Thejas (Breast Support group) is started on 30-09-2009
- 2) Spandhanam: Ostomy Association started on 21-11-2011
- 3) Navajeevan
- 4) Amrutham
- 5) Sanjeevani

# How to Support MCC

## **An Appeal:**

As you are aware that cancer treatment is expensive and many people could not afford the expenditure without some kind of financial assistance. Our centre is also committed to offer free treatment to financially and socially backward patients and others on a concessional rate. Many of our patients had already applied for financial assistance from various agencies. So many broad-minded organizations and agencies had already helped our poor patients and so many of them were expressing their willingness to help such patients in future also.

Generous donations are welcome to realize the dream: It may please be noted that donations to MCC are exempted from income tax according to rule 80G of the Income Tax Act.

Donations to MCC may be forwarded to  
**Director, Malabar Cancer Centre or to the following Account in IDBI,  
Thalassery Branch:**

Account Number	Bank	Branch	IFSC Code
1154104000017958	IDBI	Thalassery	IBKL0001154

## Patients Free Food Scheme

Recently MCC had started a “Patients Free Food Scheme” for all patients in MCC, irrespective of their financial status. MCC is looking forward for financial assistance as donations from individuals, corporate institutions, State owned Corporations, in this regard. Since November 2008, this programme has been running successfully. However as more and more patients are visiting the Centre the funds kept for this purpose are likely to be exhausted. In this regard MCC hereby request for financial aid to run this charity work and seek help from likeminded people and organizations to join hands for this noble venture.

Generous donations are welcome to realize the dream: Donations to MCC may be forwarded to Director, Malabar Cancer Centre or to the following Account in SBI:

Account Number	Bank	Branch	IFSC Code
30469577061	State Bank of India (SBI)	Thalassery	SBIN0000926

### ***For further details Contact:***

Shri. Rajesh A.K,  
Administrative Officer,  
Malabar Cancer Centre, Thalassery  
Mobile: (+91) 9496048800  
Phone: 0490 2355881, Fax: 0490 2355880  
E-mail: [mcctly@gmail.com](mailto:mcctly@gmail.com), [aomcctly@gmail.com](mailto:aomcctly@gmail.com)  
Web: [www.mcc.kerala.gov.in](http://www.mcc.kerala.gov.in)