



MALABAR CANCER CENTRE

THALASSERY
KANNUR DISTRICT, KERALA

(An autonomous centre under
Government of Kerala)



ANNUAL REPORT

2014-15



MALABAR CANCER CENTRE - ANNUAL REPORT 2014-15

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Malabar Cancer Centre

(An autonomous centre under Government of Kerala)

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FROM DIRECTOR'S DESK

A year of academic stride for MCC! Academic and research collaborations with various organizations started producing results during this period. MCC was recognized as a Research institution by Kerala University of Health Sciences, its collaborative research with HTIC, Chennai, PGIMER Chandigarh was completed and the report was submitted. The process of recognition for institutional review board-ethics committee, initiation to start other fellowship programs in Oncology Nutrition, Bone marrow transplantation etc were started during this period. All these were taken as a stepping stone towards the goal of establishing a Post-graduate institute of oncology sciences and research. Though the fellowship programs in Head and neck oncology and surgical oncology were only institutional fellowships without any university affiliations, the candidates appearing for the entrance examinations were increasing every year and the passed out candidates were placed in cancer centres or they continue in oncology field. First Scientific Advisory Committee meeting was convened during this period.

The Robotic biopsy guidance system procured along with MRI,C-arm system and the radiofrequency ablation system acquired during this academic year promoted the intervention radiology in the institution. The Hologic digital mammography installed was a boost to breast imaging. It is the first of its kind in the state with 3D mammography. Its potential to detect quite early diseases in the breast is commendable.



The Research collaboration with Centre for Development of Imaging Technology (C-DIT) in the area of Health Information Technology helped to finalize the E-palliative care software. Implementing e-Hospital, an integrated Hospital Management Information System (HMIS),with NIC, and National Knowledge Network (NKN) connectivity at MCC were other major activities during this period. MCC was one of the first health sector organizations to start e-procurement Mission Mode project and its effective implementation with training of staff in the concerned sections on and off sites helped tremendously. Malayalam computing in association with AKSHAYA Project and Online Birth & Death Registration in association with Information Kerala Mission were other newly implemented activities.

Speech and swallowing division under Department of Surgical oncology started Video fluoroscopy and pure tone audiometry for assessment of swallowing and hearing in patients undergoing treatment for cancer and the intervention in this regard could be effected. Twenty students of BASLP underwent training in this division. Rehabilitation in oncology

is one of the thrust areas MCC concentrates on and a National Conference in the area called OCOHABITARE was conducted on 18 th January 2015.

Routine testing of BCR-Abl and PML-RARa was started in the Division of Cytogenetics and Cancer Genetics. The bed strength was increased to 150 beds during this period and efforts were taken to increase the same to 200. Training for paramedical staff and nursing staff were the major academic and training schedules concentrated during this period.

There were administrative reforms brought during period with decentralization. Various committee under different Head of department helped to improve the administration and promote administrative skills of younger officers. The best example of outcome was that of Waste management committee which helped MCC bag its third award from Kerala State Pollution Control Board in 2014-15. This year it was in the category of Autonomous institutions and Medical colleges.

Establishment of Malabar Population Based Cancer Registry was a major step during this period. The Department of Cancer registry and Epidemiology

published the HBCR Report for the year 2013. Patterns of Care and Survival studies in Breast, Head and neck and cervical cancers are being conducted in association with ICMR.

There were a few major setbacks. One of them was the inability to move forward in constructions. Despite sincere efforts, pediatric oncology block, stem cell block, nursing college etc could not be pushed to any level of satisfaction. This has hampered the plan fund utilization in an adverse way. Though MCC submitted the project proposal to upgrade its status to Tertiary Care Cancer Centre under NPCDCS in 12th five year plan, it too did not get approved. It was a 45 Crore project proposal which could have made a major change in the development and growth of the institution.

In its journey to a complete comprehensive cancer centre, MCC has crossed the half way and it has changed its vision and mission to reach greater heights which can change the status of the institution and the small town of Thalassery. The journey is long and tough, but accomplishable. Hope this annual report will provide glimpses of the achievements the Institution gathered during 2014-15.

FROM THE DESK OF ADMINISTRATIVE OFFICER



Malabar Cancer Centre (MCC) is a patient caring, people-oriented academic/research institution and is an autonomous Centre, under Department of Health & family Welfare, Government of Kerala. 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. Even in adverse situations, our dedicated staff had rose to the occasion and had delivered their maximum inputs for upbringing of the Centre. A few drawbacks noticed would be reviewed at year-end and addressed appropriately. Our efforts on of implementing HIS software has started bearing results in the fields of patient services thereby reducing the load on human resources, faster delivery of patient-care and

support services. Digitization of Medical Library and establishment of online database and journals will be given priority for next year. Medical Records will be upgraded by providing additional storage facilities and in near future we plan to pave way for digital case records. The engineering and maintenance section has been providing the required support for implementing all Institutional, schemes in a professional manner. There has been a considerable increase in the outpatient attendance over the last five years, but till now we managed the activities without spending more on infrastructure and through efforts taken by the staff of Public Relations and Clinical Services Division. To address this ever-increasing outpatient attendance, we would soon be launching modernization efforts to optimize outpatient facilities by further extending the present area which could not be significantly augmented over 15 years. As a whole, we could achieve these only with the whole-hearted support of all our dedicated and selfless staff members, which is our best asset.

MISSION & VISION

Mission

Non-compromising Professionalism in Quality of Treatment, Research and Education.

Vision

The development of an exponentially progressing high quality institution with equal trust on clinical care, oncology related education and multifaceted research.

Emblem



MCC Profile at a Glance

- New Cancer Cases : 4433
- Follow up cases : 51506
- Non-cancerous Cases : 1979
- Non-cancerous cases (followup cases) : 4294
- Major Surgeries : 1155
- Minor Surgeries : 383
- RT Patients (in fractions) : 22815
- Number of Patients RT : 880
- No. of Conferences Attended/ Presented : 50
- Conference/Seminar conducted/ Days Observed : 19
- Ongoing Research Projects : 16
- Completed Research Projects : 11

Facilities Available

Treatment Facilities

- Two major Operation Theatres
- Minor theatre
- Endoscopy unit
- Laser surgery unit, CUSA, Waterjet dissector, Harmonic scalpel
- HD Laparoscopy unit
- Videocolposcope
- High End Dual energy Linear Accelerator with Rapid arc(Varian)
- Elite-80 Tele therapy machine
- CMS XiO Treatment planning system
- HDR Brachytherapy & planning system
- CT Simulator
- Conventional Simulator and Ultra Simulator
- Mould room facilities for patient immobilization
- Well-equipped Operation Theatre to perform all major oncological surgical procedures
- Bone marrow transplant unit
- IP & Day care chemotherapy facilities
- Physiotherapy Division
- Speech and Swallowing Therapy
- Clinical Dietetics and Nutritional Therapy
- Bone marrow transplantation unit-First allo-transplantation for anaplastic anemia in Northern Kerala, first totally free bone marrow transplantation for a multiple myeloma patient in northern Malabar

Radiotherapy machines

- Elite 80-Tele cobalt
- High end Dual energy Linear accelerator
- HDR Microselectron brachytherapy
- Treats 80-95 patients per day
- High precision radiotherapy-IMRT,IGRT,SBRT

24 Hours Clinical Laboratory Facilities

- Hematological investigations
- Biochemical investigations
- Cytological Examinations
- Immunological investigations
- Histopathological Examinations
- Immuno Assay-Tumor marker, Hormone detection, Viral diagnosis

Radiological investigations

- MRI Scan
- 4D CT
- Multi Slice Spiral CT Scan
- Ultra Sound Scan
- Digital Mammography machine with stereotactic biopsy facility
- Digital X-ray
- Portable X-ray machine with 60MA
- Endoscopic services with Oesophago-gastric, Colonoscopic and Bronchoscopic examinations

Diagnostic facilities

1. X-ray: GE DX 525 X-Ray Unit was commissioned in 2005 along with Automatic Film Processing Unit. A GE Genius Portable X-Ray machine is also available in the Department.
2. Mammography: Has one of the best mammography machine- Hologic Selenia Dimension with 3D mammography, stereotactic and mam-motome biopsy facility. Unit also has CAD facility.
3. Ultrasound Scan: Three Ultrasound Scanners available - GE LOGIQ 200 Ultrasound Machine, Portable Ultrasound Scanner MUS 602, Color Doppler Ultrasound Scanner (Hitachi EUB).
4. Major services includes routine abdominal scans, Doppler,

5. CT Scanner: The GE Lightspeed Multi slice CT scanner with GE Advantage Sim Virtual simulation workstations was commissioned in 2007. The major activity includes routine spiral CT scan, CT Angiography, Multi-phase studies, guided biopsies, drainage procedures, pigtail insertion and treatment planning.
6. MRI Scanner: HDxT 1.5T Signa 16 Channel GE MRI scan was commissioned in January 2013. The machine has capability for routine imaging, whole body imaging, whole body DWI, endorectal coils for prostate, rectal and cervix imaging with prostate spectroscopy, dedicated breast coils and non-contrast whole body angiography.
7. 4D CT Scan
8. PACS: Has GE Centricity PACS.
9. State of art Clinical Laboratory for all usual tests.
10. Histo-Pathology Department for Cytological and Histo-pathological examinations.
11. Rooms for General examinations, Gynec examinations, Dental examinations etc., with an attached area for minor procedures.
12. Full-fledged Microbiology Laboratory
13. Endoscopy services with Oesophagogastrotic, Colonoscopic and Bronchoscopic examinations.
14. Full-fledged Blood Bank with all modern accessories and facilities for component separation.
15. Day care chemotherapy ward, Separate general wards for male and female in-patients.
16. Semi payments pay wards and single accommodation pay wards
17. Post-operative and pre-operative wards are also attached with this.
18. 24 hours Pharmacy dispensing all the medicines for cancer patients.
19. Tobacco Cessation Clinic
20. Stoma Clinic

Supportive Facilities

1. Home care services: Home care services provided to patients staying nearby and who are unable to travel to MCC for availing treatment.
2. 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.
3. Tele Medicine Unit: Telemedicine facility has been started in MCC with financial assistance from NRHM and technical assistance from C-DAC and Kerala State IT mission.
4. National Knowledge Network connectivity
5. Dynamic website www.mcc.kerala.gov.in in English and Malayalam Languages
6. Implemented eProcurement System of Govt. of Kerala.
7. Two Smart Class Rooms
8. 26 acres of elevated greenery land
9. 11KV dedicated line, which can drop power up to 2.5MW
10. Transformer capacity of 1600KVA
11. DG of 250 KVA and 500KVA
12. Effluent Treatment Plant with 110 KLD
13. Incinerator with capacity of 25KG/hr
14. Open well to cater all needs of the Hospital
15. Incinerator with capacity of 15kg/hr.
16. Canteen for Patients and staff

Intervention Radiology

1. USG guided biopsies, drainage, pigtail insertion and brachytherapy planning
2. Robot arm assisted RFA

Clinical facilities

1. Linear Accelerator (Varian Clinic iX)
2. Nucleotron 16 Channel HDR Brachytherapy
3. Tele Cobalt 60
4. Treatment Planning System
5. CT Simulator
6. Conventional Simulator
7. Mould Room
8. Outpatient service is being conducted 6 days a week.
9. Average 1200 outpatient visits a week.
10. Cancer Palliative Medicine Clinic.
11. Recognized institution for possession and supply of Oral Morphine.
12. Operation theater well equipped to perform all major surgical procedures

17. Dormitory for bystanders
18. Preventive Oncology Facilities
19. Cancer awareness classes and early cancer detection camps
20. Screening tests like Mammogram & Pap smear.

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 all the welfare activities of 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. 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 all the welfare activities of 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 two supports groups for the welfare and rehabilitation of Breast and Colostomy cancer patients;

- 1) Thejas: Thejas (Breast Support group) is started on 30-09-2009

President: Smt. Pushpa Antony

Secretary: Sr. Dissy mol

Convener: Dr. Saina Sunil Kumar, Dept. of Cancer Registry and Epidemiology

- 2) Spandhanam: Ostomy Association started on 21-11-2011

- 3) Abhayam:

Educational Programmes and activities

With the increased incidence of cancer, more institutions are getting equipped for treatment of cancer. We realize the need for focused training in oncology, especially for medical and paramedical courses. This is a step towards better care for patients in the present milieu. It is already proposed to develop MCC as a Post-Graduate Institute of Oncology.

Regular Academic Programs:

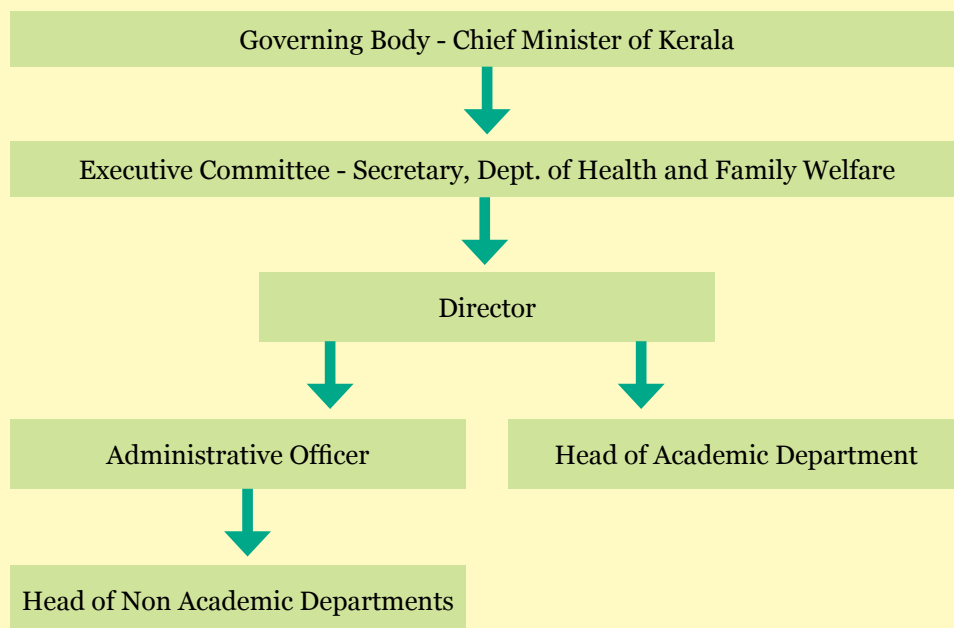
All new cases are presented in the Daily Multi Spe-

cialty 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.

Educational Programmes and activities

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 Surgical Oncology	2 Years	Institutional fellowship
7	Indian Association of Palliative Care Courses		
8	Distance education course in Cancer Pain and Palliative Medicine		

Organization Structure



Governing Body, Executive Committee and other Committees

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. The routine activities and functions of the Centre are supervised by the Executive Commit-

tee, 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 are functioning by virtue of their official positions.

Governing Body (GB): The Governing Body of the Society consists of 23 members.

1	Chairman	Shri.Oommen Chandy Chief Minister of Kerala
2	Vice-Chairman	Shri.V.S Sivakumar Minister for Health & FW, Kerala
3	Alternate Vice-Chairman	Shri.Aryadan Muhammed, Minister for Electricity, Kerala
4	Member	Shri. Jacob Secretary, Department of Finance, Kerala
5	Member	Shri.K.J.Antony, representing Secretary, Department of Power, Kerala
6	Member	District Medical Officer, Kannur
7	Member	Dr..Ellangovan IAS Secretary, Department of Health & FW, Kerala
8	Member	An eminent Medical Scientist
9	Member	Secretary, Department of Science, Technology & Environment
10	Member	One nominee of the Ministry of Health, Government of India

11	Member	Dr.Raveendran Principal, Medical College, Kozhikode
12	Member	Shri.V.S.Senthil, Secretary- Planning & Economic Affairs Department, Kerala
13	Member	Dr.Radhakrishna Pillai Director- Rajiv Gandhi Centre for Bio technology, Trivandrum
14	Member	Dr.Geetha Director of Medical Education, Directorate of Medical Education, Trivandrum
15	Member & Secretary to GB	Dr.Satheesan.B Director, Malabar Cancer Centre, Thalassery
16	Member	Shri.Kodiyeri Balakrishnan M.L.A. of the Thalassery constituency
17	Member	Prof.K.A.Sarala President, District Panchayat, Kannur District
18	Member	Smt. Amina Maliyekkal Chairman, Thalassery Municipality, Thalassery
19	Member	Shri.M.P.Aravindakshan A public man from North Malabar region (to be nominated by Government of Kerala)
20	Member	One Head of the department nominated from Malabar Cancer centre, Thalassery by the Government.
21	Member	One nominee of the Charitable Society established for rehabilitation and financial assistance for poor cancer patients
22	Member	Dr.B.Radhakrishnan, Principal/Chief Executive Officer of Medical College, Pariyaram
23	Member	Dr.Paul Sebastian Director, Regional Cancer Centre, Trivandrum

Executive Committee (EC): The Executive Committee shall be composed of;

1	Dr.Ellangovan I.A.S. Secretary, Department of Health & Family Welfare, Government of Kerala	Chairman
2	Secretary, Department of Health & Family Welfare, Government of Kerala	Member
3	Shri.E.K.Praksh, Special Secretary, Department of Finance, Government of Kerala	Member
4	Smt.Amina Maliyekkal Chairman, Thalassery Municipality	Member
5	Shri.M.P.Aravindakshan, A public man from North Malabar to be nominated by Government of Kerala	Member
6	Secretary, Department of Planning, Government of Kerala	Member
7	Dr.Paul Sebastian, Director, Regional Cancer Centre, Trivandrum	Member
8	Dr.Satheesan.B, The Director, Malabar Cancer Centre, Thalassery	Member/ Convener

Scientific Advisory Committee:

1	Dr. T.G. Sagar, Director, Cancer Institute (WIA), Chennai	Chairperson
2	Dr. Manoj V. Murhekar, Deputy Director National Institute of Epidemiology(ICMR), Chennai	
3	Dr. M. Vijayakumar, Director, Kidwai Memmorial Institute of Oncology	
4	Dr. R M Nehru, Senior Scientist AERB, Atomic Energy Regulatory Board	Vice chairman
5	Dr. Praveen lal Kuttichira, Dean(Research), Kerala University of Health Sciences	
6	Dr. M. Manoharan, HOD,Department of Statistics, University of Calicut	
7	Dr. C. Sadasivan, HOD,Department ofKannur University	
8	Dr. Shripad D. Banavali, Professor and HOID Department of Medical and pediatric oncology, Tata Memorial Hospital, Mumbai	
9	Dr. Satheesan B, Director, Malabar Cancer Centre	Convenor

Other Committees:

A] Internal Committee

1	Administrative Council
2	HOD Committee
3	Academic Council
4	Purchase Committee-General, Medicine
5	Library Council
6	Canteen Committee
7	Waste management Committee

8	Institutional Review Board
	i) Scientific Review Committee
	ii) Institutional Ethics Committee
9	Data Monitoring and Safety Committee
10	Data Monitoring and Safety Committee
11	Building Committee

Other Committees:

B] External Monitoring Committee

1	Building Committee
2	PBCR Advisory Committee

Highlights from the year 2014-15

- Achieved Official affiliation as a Research Institute from Kerala University of Health Sciences, Trissur.

Academic and Research Collaborations

- Research collaboration with Centre for Development of Imaging Technology (C-DIT) in the area of Health Information Technology.

DEPARTMENTS AND DIVISIONS

Sl. No	Name of the Department	Divisions under the Department
1.	Department of Radiation Oncology	<ul style="list-style-type: none"> ■ Radiation Oncology Division ■ Radiation Physics Division
2.	Department of Imageology	<ul style="list-style-type: none"> ■ For administrative purpose, this Department presently will be under Department of Radiation Oncology
3.	Department of Clinical Hematology and Medical Oncology	<ul style="list-style-type: none"> ■ Clinical Hematology Division ■ Medical Oncology Division ■ Division of Medicine ■ Division of Pediatrics/Pediatric Oncology
4.	Department of Respiratory Medicine and Critical Care	<ul style="list-style-type: none"> ■ For administrative purpose, this Department presently will be under Department of Clinical Hematology and Medical Oncology
5.	Department of Surgical Oncology	<ul style="list-style-type: none"> ■ Surgical Oncology Division ■ Division of Rehabilitation Physiotherapy, Speech and Swallowing therapy ■ Division of Gynaecology/Gynaecologic Oncology ■ Clinical Nutrition and Dietetics
6.	Department of Clinical Laboratory Services and Translational Research	<ul style="list-style-type: none"> ■ Oncopathology Division ■ Molecular Oncology Division ■ Biochemistry Division ■ Microbiology Division ■ Blood Bank and Transfusion Medicine Division ■ Genetics Division(including Cytogenetics)
7.	Department of Cancer Registry and Epidemiology	<ul style="list-style-type: none"> ■ Cancer Registry and Epidemiology Division ■ Medical Records Division ■ Health Information Technology Division(Presently under Director) ■ Clinical Research and Biostatistics Division (Presently under Director)
8.	Department of Community Oncology	<ul style="list-style-type: none"> ■ Community Oncology Division ■ Tobacco Cessation Division
9.	Department of Onco Anesthesiology	<ul style="list-style-type: none"> ■ Onco Anesthesiology Division
10.	Department of Cancer Palliative Medicine	<ul style="list-style-type: none"> ■ Psycho-Oncology and Clinical Psychology Division ■ Home Care Services Division.
11.	Department of Dentistry and Rehabilitation	<ul style="list-style-type: none"> ■ Dentistry and Rehabilitation
12.	Department of Engineering and Maintenance	<ul style="list-style-type: none"> ■ Engineering & Maintenance
13.	Department of General Administration	<ul style="list-style-type: none"> ■ General Administration Division ■ Hospital Administration ■ Academic Division & Library and Information Science ■ Public Relations and Clinical Services Division ■ Accounts Division ■ Purchase/Store Division & Pharmacy ■ Human Resources and Establishment Division ■ Security Division
14.	Department of Oncology Nursing	<ul style="list-style-type: none"> ■ Nursing Services Division

DEPARTMENT OF RADIATION ONCOLOGY



Dr. Santam Chakraborty
Associate Professor & HOD

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.

Dr. Santam Chakraborty	Associate Professor & Head
Dr. Geetha. M	Associate Professor
Dr. Vinin. N. V	Assistant Professor
Dr. Joneetha Jones	Assistant Professor
Dr. Sameer. E. P	Lecturer
Dr. Greeshma. K. E	Lecturer

NEW EQUIPMENT ACQUIRED:

Purchased anthropomorphic phantom, thermo luminescent dosimetry system during this year. TLD Irradiation has already been started for research purposes.

ACTIVITIES & ACHIEVEMENTS

1. First batch of Physics interns joined the department from July 2014. They will be doing their internship for one year. The four students will do their project work along with the routine quality assurance and clinical work.
2. Six MSc Physics students had done their projects in the department under the supervision of physicists.
3. Kerala University of Health Sciences has approved the BSc MRT Syllabus and the 3rd batch will be affiliated to KUHS, Thrissur.
4. Ten students from first batch of B.Sc MRT Students will undergo their internship in MCC. Five each in Department of Radiation Oncology and Department of Imaging sciences.

PATIENT SERVICES:

Treatment Given	Number
Patients treated with Radiotherapy	2848
Treatment on Cobalt	2362
Number of Fields Treated	22485
Palliative Treatments	1181
Radical Treatment	142
Treatment on Linear Accelerator	486
Number of fields treated	1236

Number of Rapid Arc	352
Number of IMRT	2
Number of 3DCRT	100
Number of Electrons	38
Number of SBRT	1
Number of Hybrid Arc	27
Treatment with HDR Brachytherapy	70
Total Sessions Treated	210

PUBLICATIONS

- 1) A Study on the Response of 2D Array Detector for VMAT Delivery for a period of Two Years. (S.A Syam kumar, Anu George), Malabar Cancer Centre, Thalassery, Kerala, India. Accepted for the general poster discussion session at the 56th Annual AAPM Meeting, July 20 - 24, 2014, Austin, Texas, USA. (Med. Phys. Volume 41, 375 (2014))

CONFERENCES/SEMINAR/WORKSHOP

1. Poster Presented at Indira Gandhi Hospital, Shimla by Nijesh P.T. Topic – Comparison of setup errors occurring with integrated bite block and without bite block in radiotherapy treatment of head and neck cancers.
2. Poster Presented at Indira Gandhi Hospital, Shimla By Rajinesh Kumar.O.K. Topic – Comparison of setup errors while using vacloc and vacloc only in the treatment of lung cancers in linac.
3. Poster Presented at Indira Gandhi Hospital, Shimla By Gibesh.K.P. Topic- Treatment of trigeminal tumors using VMAT.
4. Paper presented in NCISRT – 2014 by Farsana.P (B.Sc MRT Student). Topic – Comparison of setup accuracy by immobilization type in various sites and institutional specific margin.
5. Conducted a seminar on Advanced Radiotherapy Concepts (ARC-2015) by Physics Division at Malabar Cancer Centre on Feb8th 2015.

RESEARCH PROGRAMS

Completed projects

1. Radiation beam data measurement for a dual energy linear accelerator (Syam Kumar, Bijina, Suja.C.A, Resmi.K.Bharathan) Malabar Cancer Centre, Thalassery & Madappally college, Vada-kara)
2. Output measurement of Medical Linear Accelerator and Co-60 photon energies using TRS-398 protocol. (Resmi.K.Bharathan, Suja.C.A , Syam Kumar, Neethu) Malabar Cancer Centre, Thalassery & Madappally college, Vadakara)
3. Determination of virtual SSDs and output measurement for various electron beams from a Medical Linear Accelerator. (Suja C.A, Resmi.K.Bharathan, Syam Kumar, Hajila) Malabar Cancer Centre, Thalassery & Madappally college, Vadakara)
4. Quality Assurance of High Dose Rate (HDR) Brachytherapy. (Suja.C.A, Resmi.K.Bharathan, Syam Kumar, Abhina) Malabar Cancer Centre, Thalassery & Sreenarayana college, Vadakara)
5. Depth dose measurements for a dual energy linear accelerator (Resmi.K.Bharathan, Suja.C.A, Syam Kumar, Abhina) Malabar Cancer Centre, Thalassery & Sreenarayana college, Vadakara).
6. Quality assurance of medical linear accelerator (Syam Kumar, Anju, Suja.C.A, Resmi.K.Bharathan) Malabar Cancer Centre, Thalassery & Sreenarayana College, Vadakara).

STAFF

Sl. No	Name	Designation
1.	Dr.Santam Chakraborty	Associate Professor
2.	Dr.Geetha.M	Associate Professor
3.	Dr.Vinin.N.V	Assistant Professor
4.	Dr.Joneetha Jones	Assistant Professor
5.	Dr.Sameer.E.P	Lecturer
6.	Dr.Greeshma.K.E	Lecturer
7.	Dr.Syamkumar.S.A	Assistant Professor, Radiation Physics
8.	Ms. Suja.C.A	Lecturer in Radiation Physics
9.	Mrs.Silpa Ajaykumar	Lecturer in Radiation Physics
10.	Mrs. Resmi K Bharathan	Lecturer in Radiation Physics
11.	Mrs.Sriji Soman	Technician
12.	Mr.Renjith.M	Technician
13.	Mr.Najeeb.K.A	Technician
14.	Mrs.Rijisha	Technician
15.	Mr.Nijeesh.P.T	Technician
16.	Mr.Rejinish Kumar.O.A	Technician
17.	Mr.Gibesh.K.P	Technician
18.	Mrs. Dhayna.V	Technician
19.	Mrs.Beena.P.K	Technician
20.	Mr.Sandeep	Mould Room Assistant
21.	Mr. Sujith	Attender

DEPARTMENT OF IMAGEOLOGY



Dr Satheesh Babu
Assistant Professor

Dr Satheesh Babu	Assistant Professor
Dr Sarath K E	Lecturer

Cross sectional imaging has a central role to play in the management of patients with malignant diseases at different points along the patient care pathway. One or other modality of imaging are used appropriately depending on the intent of the treatment. Accurate and early diagnosis is the only way at present to cure cancer and good clinico-radiological skill plays an important role in this. This specialty has slowly started diversifying in to many sub specialities and one of the important subspecialty which has influenced oncology is interventional radiology. It is not only important in the therapeutic aspect but also in palliation.

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 machines like digital mam-

mogram with 3D tomosynthesis, Digital radiography, C-arm, Maxio robot for guidance in interventional procedures and a Radio frequency ablation machine. The department of Imageology has seen a tremendous increase in the number of diagnostic imaging and interventions performed in the last year.

NEW EQUIPMENT ACQUIRED:

- Installed Kerala's first Breast tomosynthesis machine.
- Acquired Starbust radiofrequency ablation system.
- Acquired Maxio Interventional Radiology Assistance platform from Perfint Healthcare Ltd.
- Acquired Zeihm C arm system.

ACTIVITIES AND ACHIEVEMENTS

1. Developed protocols for CT examination of different organ cancers. This has increased the throughput with very minimal technical and manual error. More and more CT guided procedures like FNACs, biopsies, aspiration, pigtail insertion and RFA was started. Angiograms and multi-phase studies were started adding to better quality diagnostic services to the clinicians. Statistics are given below.

2. Implemented standard MRI protocols for Ca tongue, Ca rectum, MR mammogram, MR angiogram and whole body imaging. MR guided RT planning protocols were developed with the help of department of Radiation Oncology.

3. Doctors and female technicians in the department were trained by Hologic engineers from Belgium on image acquisition and breast interventions. Breast interventions include stereotactic biopsy, wire localization and vaccum assisted bi-

opsy. Following installation, more than 4000 3D mammogram has been done. Suspicious non palpable lesions were biopsied by either stereotactic technique or by wire localizations.

4. Starbust radiofrequency ablation system is used for radiofrequency ablation of liver lesions. Maxio Interventional Radiology Assistance platform from Perfint Healthcare Ltd. helps to place biopsy or RFA needle in difficult to assess areas with less effort. Data and an e poster was presented in 68th Annual Conference of IRIA conducted in Kochi from January 29th to 2nd February 2015.

5. Department faculty is also involved in conducting classes and internal assessment for 1st, 2nd and 3rd year BScMRT students. Nearly 300 hours are dedicated for classes. Regular teaching session is also conducted for head and neck fellows and BScMRT interns.

6. Acquired Zeihm C arm system, which is at present used for swallow studies and urological and orthopedic oncological surgeries. Video fluoroscopic swallow study data was presented in ISRT national conference by technologists.

PUBLICATIONS

1. Dessai SB, Chakraborty S, Babu STV, Nayanar S, Bhattacharya A, Balasubramanyam S, Patil VM. Tolerance of Paclitaxel and Carboplatin as NACT in advanced ovarian cancer patients who are unlikely to tolerate 3 weekly Paclitaxel and Carboplatin. South Asian Journal of Cancer Apr-June:5(2): 63-66.

CONFERENCES/SEMINARS/WORKSHOP

1. Doctors in the department underwent 3 days training in BLS and ACLS
2. Attended 12th annual meeting on evidence based management of cancers in India with emphasis on oncologic imaging at Tata Memorial Center, Mumbai from 27th February to March 2nd, 2014
3. Dr. Satheesh Babu was invited as faculty speaker in 68th Annual conference of Indian Radiological and Imaging Association held at Kochi from 29th Jan to 1st Feb 2015 and delivered a speech on "Robot arm assistance in interventional radiology". Also presented a poster on the topic "Robot arm assisted CT guided radiofrequency ablation - A versatile tool in radiologists' armamentarium"

RESEARCH PROGRAMMES

Ongoing projects

Retrospective audit of 3D mammogram detected clinically non palpable BIRADS 3,4 and 5 breast lesion

1. Developing a tool which can be used by any non-medical person to detect deep vein thrombosis in community settings and ICU by collaborating with HTIC, IIT, Madras

Completed projects

- 1) To predict the parameters affecting the accuracy of CT compatible robotic system

- 2) Baseline ADC value in patients with oral cancers undergoing pretreatment MRI evaluation – Data from a tertiary Cancer Center
- 3) Assessment of aspiration in head and neck cancer patients using video fluoroscopy.

PATIENT SERVICES

Investigations	Number
No. of X rays	4327
USG	1013
Mammogram	1365
CT	3212
MRI	1205
USG guided procedure	161 (USG guided biopsy, FNAC, wire localizations and guided aspiration)
CT guided FNAC/Biopsies	259
Stereotactic wire localization	5
Robot guided RFA	4
Robot guided FNAC/biopsy	4

STAFF

Name	Designation
Dr Satheesh Babu	Assistant Professor
Dr Sarath K E	Lecturer
Sherin Paul	Technician
Sheena Pratap	Technician
Sindhu	Technician
Shamna P	EDP Assistant

DEPARTMENT OF CLINICAL HAEMATOLOGY & MEDICAL ONCOLOGY



Dr Chandran K Nair
Associate Professor & HOD

Dr Chandran K Nair	Associate Professor and H.O.D
Dr Vijay Patil	Assistant professor, Medical Oncology
Dr Praveen Kumar Shenoy	Senior lecturer, Medical oncology
Dr Manu Prasad	Senior lecturer, Medical oncology
Dr Vineetha	Assistant Professor, Pediatrics
Dr Jithin TK	Assistant Professor, Pediatrics
Dr Amith Sreedharan	Assistant Professor, Pulmonology

Haemato-oncology OP clinic is conducted on all week days. Beginning hematological disorders are also treated at MCC. Chemotherapy of all solid tumors is administered in this Department. The department has the following divisions,

1. Clinical Hematology Division

2. Medical Oncology Division
3. Pediatric Oncology Division

ACTIVITIES & ACHIEVEMENTS (ACADEMIC ACTIVITIES)

1. Regular Classes for nurses
2. Clinical activities- in-patient and out-patient care

PATIENT SERVICES

O.P.D	4327
Total attendance in Hematology OPD	6632
New Cases in Hematology OPD:	490
Hematopoietic Stem cell transplantation:	12 (11-Autologous, 1-Allogenic)
Total attendance in Medical Oncology (solid tumors) OPD(From October 2014 to March 2015):	5326
New cases in Medical oncology OPD(From October 2014 to March 2015):	208
Total attendance in Pulmonology OPD:	1901
I.P consultations –Pulmonology:	1003
Procedures done (O.P + I.P):	
Bone Marrow aspiration/biopsy	278
Lumbar puncture with Intrathecal drug administration	110

Bronchoscopy	71
Endobronchial biopsy	22
Bronchoalveolar lavage	22
ICD insertion	26
Pleural tap	16
Pleurodesis	16
Pulmonary function test	486

PUBLICATIONS

- Dessai SB, Chakraborty S, Sajeew Kumar PB, Babu S, Muttath G, Nair C, Thiagarajan S, Sug-hosh B, Bhattacharjee A, Patil VM. Pilot study of single-day distress screening with the NCCN distress thermometer to evaluate the feasibility of routine distress screening in tertiary cancer center in rural India. *Psycho-oncology*. 2014 Dec 22. doi: 10.1002/pon.3739.
- Development and validation of a questionnaire to measure preferences and expectations of patients undergoing palliative chemotherapy: EXPECT questionnaire. Accepted in *IJC*
- Retrospective audit of clinico- pathologic features and treatment outcomes in a cohort of elderly Non Hodgkin's Lymphoma patients in a tertiary cancer centre. Nair CK, Patil VM, Raghavan V, Babu S, Nayanar S. *Indian J Cancer*. 2015 Oct-Dec;52(4):541-4

- Genetic causes of bleomycin toxicity in Hodgkins lymphoma patients (submitted to ICMR for extramural funding)
- Study on anxiety, depression, quality of life and its correlation with sleep problems among adult cancer patients who are on chemotherapy for Ca breast (IRB approved)

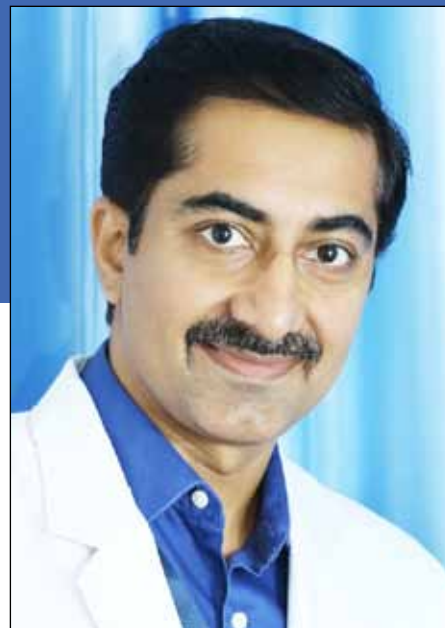
CONFERENCES/SEMINAR/WORKSHOP

- Dr Chandran.K.Nair attended Indian Myeloproliferative Neoplasm working group meeting as panelist in July 2014
- Dr Chandran K.Nair attended CME on Myeloproliferative neoplasms at MIMS, Calicut as faculty
- Dr Chandran K.Nair attended ISCTR meeting at Christain Medical College ,Vellore
- Dr Chandran K.Nair attended workshop for lab technicians organized by KUHAS as faculty

STAFF

Name	Designation
Dr Chandran K Nair	Associate Professor and Head of Department
Dr Vijay Patil	Assistant professor, Medical Oncology
Dr Praveen Kumar Shenoy	Senior lecturer, Medical oncology
Dr Manu Prasad	Senior lecturer, Medical oncology
Dr Vineetha	Assistant Professor, Pediatrics
Dr Jithin TK	Assistant Professor, Pediatrics
Dr Amith Sreedharan	Assistant Professor,Pulmonology

DEPARTMENT OF SURGICAL ONCOLOGY



Dr. Sajith Babu T.P.
Associate Professor

Dr Satheesan B	Professor & Director
Dr. Syam Vikram	Associate Professor
Dr Sajith Babu TP	Associate Professor
Dr Sampada Dessai	Assistant Professor
Dr Shiva Kumar	Assistant Professor
Dr Nizamudheen (on study leave)	Assistant Professor

The department of Surgical Oncology grew further in terms of staff strength, facilities and its patient load. This period saw a lot of changes with change of staffs and addition of new wards. The activities of the department was streamlined during this period. The ongoing fellowship courses were continued and plans of starting

new courses were made. The department has the following divisions,

1. Division of Rehabilitation Physiotherapy, Speech and swallowing therapy
2. Speech and Swallowing Division
3. Division Of Clinical Nutrition & Dietetics

ACTIVITIES & ACHIEVEMENTS

Academic Activities

1. Departmental library was set up with 39 books lended from the main library in June 2014.

Training to students

1. Fellowship in Head and Neck Oncology: Third batch of fellowship in Head and neck oncology completed their course in July 2014 and

fourth batch of two students started their course in Aug 2014.

2. Training for MS students: Trained five 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.

PATIENT SERVICE:

1. Total Number of Major Surgeries Performed: 1132

Site	Number
Head and Neck	334
Breast	351
GIT+ Gynecology +Urology	353
Bone & Soft tissue	91
Lung	02
Neurosurgery	01
Total	1132

2. Total Number of patients seen in OPD: 28200

Type	Number
New Patients	2550
NMC Patients	1406
Review Patients	24244
TOTAL	28200

3. Minor Surgeries done: 279

Procedure	Number
Tracheostomy	34
Biopsy	152
Orchidectomy	17
Flap	40
Debridement	36

PUBLICATIONS

1. Modified Visor Flap Technique for Approach to Advanced Head and Neck Cancer. Annual Journal of Otolaryngology and Head and Neck Surgery, 2014, vol 22. ISSN 2321-8428.
2. Dessai SB, Balasubramanian S, Patil VM, Chakraborty S, Bhattacharjee A, Vikram S. Pelvic Exenteration: Experience from a Rural Cancer Center in Developing World. International Journal of Surgical Oncology. 2015;729658.

CONFERENCES/SEMINAR/WORKSHOP

1. NUTRIPEN – Conference on enteral and parenteral nutrition was conducted on 15th Nov 2014 by the division of Onco nutrition and Dietetics. It was attended by 82 delegates from outside and about 40 delegates from MCC. The conference

covered the entire topic for the nutrition of oncology patients. An external faculty from Chennai was invited speaker.

2. STERILIS– Conference on sterilisation techniques was conducted on 6th Dec 2014 by the dept. It was attended by 110 delegates from MCC. The training was for the nurses, nursing assistants and ward assistants in MCC. There were two external experts.
3. ONCOHABITARE- A conference on rehabilitation of patients after cancer treatment was done on 18th Jan 2015. There were good participation from physiotherapists and nursing staffs from in and around Malabar region. Many of the staffs in MCC also attended the conference. There were two external faculties who gave lectures on rehabilitation.

Conference presentations

1. Dr. Sajith Babu presented on “Initial experience on laser cordectomy for early laryngeal carcinoma” at KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram.
2. Dr. Shivakumar presented on “Reconstruction of head and neck cancer defects- my experience” at KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram.
3. Dr. Sajith Babu presented a video on “Submental artery island flap- a versatile option in head and neck” at KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram, and got first prize.
4. Dr. Sajith Babu presented a poster on “Matched pair analysis of oral cancer patients with and without the use of tobacco” at the national FHNO conference held at Chandigarh.
5. Dr. Shivakumar presented a poster on “Retrospective evaluation of geriatric patients undergoing surgery in cancer centre in rural area” at the national FHNO conference held at Chandigarh.
6. Dr. Sajith Babu presented a poster on “Swallowing function assessment in glossectomised patients and its therapeutic intervention” at the national FHNO conference held at Chandigarh.
7. Poster on “Retrospective review of treatment intent in geriatric patients in tertiary cancer centre”- Dr Shivakumar T in India-Singapore International Conference held at RCC, Thiruvananthapuram.
8. Oral presentation on “Assessment of swallowing functions in glossectomised patients and its therapeutic intervention” by Dr Sajith Babu in India-Singapore International Conference held at RCC, Thiruvananthapuram.
9. Poster on “Laser cordectomy for early glottic lesions: initial experience and voice analysis” by Dr Sajith Babu in India-Singapore International Conference held at RCC, Thiruvananthapuram.
10. Retrospective audit of free flaps in Head and neck cancer patients by Dr Hamsanandini in India-Singapore International Conference held at RCC, Thiruvananthapuram.
11. Clinico pathological correlation of tumour factors and pathological factors in Oral cancers- Dr Nagendra K in India-Singapore International Conference held at RCC, Thiruvananthapuram.

AWARDS:

Dr. Sajith Babu got first prize in consultant video presentation at KENTCON 2014, annual conference of AOI, Kerala state branch held at Perinthalmanna, Malappuram for the presentation on “Submental artery island flap- a versatile option in head and neck”.

DIVISION OF REHABILITATION PHYSIOTHERAPY



Smt. Roopa
Physiotherapist

Physiotherapy division in MCC is under surgical oncology department, and it provides rehabilitation of patients who had underwent surgery, radiation therapy and chemotherapy. Surgical patient mainly breast cancer, limb salvage surgery in Bone and soft tissue sarcoma, head and neck cancer and

also give pre-operative counseling regarding chest rehabilitation in Thoracic and Abdominal surgery and also give lymphedema

management, neuromuscular rehabilitation. Participated in academic programme as delegate and faculty.

ACTIVITIES AND ACHIEVEMENTS

- Organized National Conference on Rehabilitation In oncology ONCOHABITARE” on January 18, 2015.
- Take part in panel discussion in “PINK RIBBON DAY” at MCC

PATIENT SERVICES

954 OP patients

PUBLICATIONS

- “Importance of Physiotherapy in Breast Cancer” in BREAST CANCER book published by Kerala Basha Institute.
- Role of Physiotherapy in Oncology in Abhayam” newsletter December 2014.

Presentations-

- Nature of Rehabilitation in Bone & Soft tissue

Sarcoma in CNE “SYOPA” at MCC on October 20, 2014.

- Role of Physiotherapy in Head and Neck Oncology in National Conference on Rehabilitation In oncology “ÓNCOHABITARE” on January 2015.
- Participated as delegate in “STERILIS” on December 6, 2014.

SPEECH AND SWALLOWING DIVISION



Shri. Aneeth
Speech therapist

A speech language pathologist is a medical professional specifically trained to diagnose and treat speech, language & swallowing disorders. The division provides expert speech pathology services on both inpatient and outpatient basis apart from swallowing and speech rehabilitation of head and

neck cancer patients

Inpatient/Outpatient, Diagnostic and Therapeutic Services provided

1. Counseling- Pre and post treatment counseling
2. Swallowing assessment- Clinical, subjective and objective
3. Swallowing therapy- Postures, maneuvers and ROM exercises
4. Speech therapy- Alaryngeal speech training
5. Voice therapy
6. Pure tone audiometry

ACTIVITIES

We are seeing the patient with head and neck at their various stages of medical assessment & giving treatment accordingly:-

Pre treatment

- Counseling for the patients and family members regarding the implications of planned treatment for speech, voice and swallowing functions.
- Informal assessment of articulation and voice skills.

- Swallowing assessment (bedside/FEES/videofluoroscopy).

During treatment

Radiotherapy in combination with chemo alone may produce tissue changes that resulting in alteration in speech, voice or swallowing

- Oral motor, laryngeal or pharyngeal exercises in an attempt to strengthen and maintaining range of motion, precision & mobility of the structures needed for voice, speech & swallowing.

Post treatment

Speech/voice & swallowing function will be affected by the extent of resection, the type of reconstruction & the added effect of radiotherapy and chemotherapy.

- Assessment of functional communication skills with provision of appropriate treatment and also assessing or reassessing the swallowing function with provision of appropriate treatment including the use of specific swallowing maneuvers and postures, swallowing therapy focusing on the use of specific oral, laryngeal/ pharyngeal exercises.

NEW EQUIPMENTS/TREATMENT

Started Videofluoroscopy and pure tone audiometry

PUBLICATIONS

Published an article about swallowing rehabilitation in head and neck cancer patients in newsletter Abhayam released by MCC on December 2014.

PATIENT SERVICES

Total OP patients	1757
Total videofluoroscopy	98
Total Audiogram	94

CONFERENCES, SEMINAR, WORKSHOPS AND PRESENTATIONS

1. Attended as faculty in CNE on head and neck cancers on 1st June 2014 conducted by MCC. Topic presented- swallowing and speech rehabilitation in head and neck cancer patients- role of speech therapist.
2. Attended as faculty in conference on Rehabilitation in oncology- "ONCOHABITARE" conducted by MCC on 18th January 2015. Topic presented- Dysphagia in head and neck cancers assessment and management.

Facilities available

1. Swallowing Therapy and speech therapy outpatient room and evaluation tools
2. Videofluoroscopy
3. FEES
4. Pure tone audiometry

Educational programs and courses

Giving training to BASLP students from 20/09/2012 onwards who are doing their internships at speech and swallowing department in MCC

RESEARCH PROGRAMMES

Ongoing Project

-Effect of Glossectomy on speech and swallowing function a pre -post comparative study (one among the principle investigators)

DIVISION OF CLINICAL NUTRITION AND DIETETICS



Ms. Reena C.
Dietitian

CONFERENCES & PROGRAMMES ATTENDED

1. Participated as a resource person in "NUTRIPEN -2015"
2. Member of panel discussion in PINK RIBBON DAY "at MCC during 2014.
3. Conducted education classes for local people near by the institution during the month august 2014.
4. Overview of Nutritional Support In inCancer Patients" in NUTRIPEN 2014-Education programme in Nutrition, on October 15.
5. Nutritional Support of Head and Neck CancerPatients" in Continuing Nursing Education

Programmein Head andNeck Cancer SCIENTIA

PUBLICATIONS-

1. Role of Diet in Breast Cancer Prevention and Treatment in" Sthanarbutham"book published by Kerala Basha Institute.
2. Informative Brochure released on World Life Style Month-Prevention of Life Style Disease.
3. Article in Mathrubhumi Arogya Masika "Cancer Thadayan Bhakshnakramam",December 2014.
4. Article in Mathrubhumi Arogya Masika" Cancerine Cherrukkan 20 ilakkarikal", December 2014.
5. Article in Mathrubhumi Arogya Masika"Cancer Rogikalude Bhakshnakramam"-May 2014.

STAFF

Name	Designation
Dr Satheesan B	Professor, Director
Dr. Syam Vikram	Associate Professor
Dr Sajith Babu TP	Associate Professor
Dr Sampada Desai	Associate Professor
Dr Shiva Kumar	Associate Professor
Dr Nizamudheen	Assistant Professor
Mrs Reena	Dietician
Mrs Roopa	Physiotherapist
Mr Aneeth	Speech and swallowing Therapist
Mr. Krishnakumar	OT Technician
Mr. Bipin	OT Technician
Mrs. Reshma	OT Technician
Mr.Mayan	Dialysis Technician

DEPARTMENT OF CLINICAL LABORATORY SERVICES AND TRANSLATIONAL RESEARCH



Dr. Sangeetha K. Nayanar
Professor & Head

Dr. Kavitha K P	Associate Professor
Dr. Aswathi K.	Assistant Professor
Dr. Sithara Aravind	Assistant Professor
Dr. Akhil R Nambiar	Assistant Professor

The department has the following divisions,

1. Oncopathology Division
2. Biochemistry Division
3. Microbiology Division
4. Blood Bank and Transfusion Medicine Division
5. Genetics and Cytogenetics

Oncopathology Division

The department of Oncopathology provides all diagnostic services including Surgical Pathology reporting, Cytopathology work like FNAC, Aspiration cytology and Haematology services like Automated Blood cell counts, Peripheral smear and Bone marrow studies. Special studies like frozen sections using Cryostat for intra-operative diagnosis, Immunohistochemistry for diagnosis of difficult or rare tumors are also performed. The service laboratory is on its way to acquire state-of-art new machines and instruments, thus ushering in latest technological advances in disease diagnosis.

PATIENT SERVICES

Biopsy	2859
FNAC	979
Fluid Cytology	326
Cervical Cytology	383
SOB	1509
SOC	402
IHC	3775
Frozen	431
Camp Cytology	1629

PUBLICATIONS

1. Kavitha K P, Sangeetha K Nayanar, Chandran K Nayar, Aswathi Krishnan M.

Myeloid sarcoma masquerading as lymphoma-a diagnostic challenge. Sch JMed Case Rep,2014;2(11):726-728

2. Divya K P, Sangeetha K Nayanar, Syam Vikram, Satheesan B. Metastatic carcinoid in mesenteric lymph nodes from occult primary in the midgut: report of two cases.-published in Indian Journal of Pathology-Practice & Research

CONFERENCES, SEMINARS, WORKSHOPS & PRESENTATIONS

1. All faculty attended IAPM State Chapter 74th meeting, Calicut Medical College-Feb 2015
2. Oral presentation in Slide Seminar on Uropathology-Dr. Bithun Balan, PG.Trainee- Case of Renal Ewing/Synovial Sarcoma-the need for cytogenetics-at 74th IAPM, Calicut.

3. Poster presentation in IAPM- Spindle cell carcinoma-Dr.Shamla, PG.Trainee at 74th IAPM, Calicut
4. Amelanotic Melanoma in Vagina-Dr.Akhil Nambiar, Assistant Professor presented at International CME at Goa, February 2015
5. Dr.Akhil Nambiar, Assistant Professor attended Uro-oncology CME at TMH Mumbai along with two day observership in Molecular Lab, TMH, Mumbai.
6. Clear cell adenocarcinoma arising in an endometrial polyp-Dr.Aswathy, Assistant Professor presented at International Gynaec-Oncology Meet, Chennai on March, 2015.
7. Mrs.Sabna & Mrs.Nimi presented slides and posters for public at Thalassery town in an awareness camp and exhibition conducted by MCC.

RESEARCH PROGRAMMES

1. Comparison of conventional and Liquid based cytology in Cervical smears-a multicentric trial-PGI, Chaadigarh & MCC, Thalassery

Biochemistry Division

Dr. Binu K A

Lecturer in Biochemistry & Lab incharge

The Biochemistry and Hematology division (Clinical Laboratory) provides the best support in diagnosis and management of cancer patients using tests and procedures that meet the international standards of quality assurance. The quality of the test results were assessed by both internal and external quality assurance programmes. The policy of the lab is to provide reliable and dependable results with accuracy and precision. The department is equipped with fully automated analyzers for the analysis of complete biochemistry parameters, Hematology parameters, Immunoassay system for the analysis of different types of tumour markers. Automated Electrophoresis apparatus and Coagulometer are additions to the armamentarium, Arterial Blood Gas (ABG) analyzer caters to effective monitoring of critical care patients on therapy and also the preoperative and postoperative evaluation in surgical patients. Trained technicians under able faculties execute the daily outpatient and inpatient sample load. The laboratory provides

an advanced training as observers for B.Sc. and M.Sc. students in Medical Biochemistry, Biochemistry, MLT, Hematology and Biotechnology.

Facilities available:

- Routine and specialized Biochemistry analysis using VITROS 5,1FS CHEMISTRY SYSTEM and VITROS 250 CHEMISTRY SYSTEM (Fully Automated Chemistry Analysers)
- Routine and specialized Hematology tests using BECKMAN COULTER LH 780 and

BECKMAN COULTER HMX, fully automated 5 parts Hematology Analysers.

- Specialized tests such as Tumour Marker Analyses, Anemia markers, Thyroid markers, etc using BECKMAN COULTER -Access 2 Chemiluminescence Immunoassay (CLIA) system
- Therapeutic Drug Monitoring (TDM) of drugs such as Cyclosporine, Methotrexate etc using VITROS 5,1FS CHEMISTRY SYSTEM

- Arterial Blood Gas (ABG) Analysis using RADIOMETER ABL 80 FLEX ABG Analyzer.
- Coagulation parameters such as Protrombin Time, APTT, Factor Assays etc using STAGO START4 -Semi Automated Coagulometer.
- In addition to this Urine analysis, Peripheral blood smears, Blood Grouping and routine.
- Blood screening tests also are being carried out by the division.

ACTIVITIES AND ACHIEVEMENTS

The activities of the division include analysis of different samples for various tests of both out-patients and in-patients. The laboratory pro-

cessed and analyzed 98,857 samples consisting of 32,907 hematology; 34,532 biochemistry; 4,849 Tumour Markers; 2,112 urine samples etc. The division provided training programs in clinical hematology, clinical biochemistry, tumor marker detection systems, Therapeutic Drug Monitoring etc. During the report period laboratory provided an advanced training for 48 B.Sc/ M.Sc. students in Medical Biochemistry, MLT, Hematology and Biotechnology. The division has been a participant in the External Quality Assurance Services by Christian Medical College (CMC), Vellore for clinical chemistry and hormones. Daily quality control analysis was also performed for hematology, biochemistry, tumour markers/ special tests, TDM etc.

PATIENT SERVICES:

The Biochemistry and Hematology division processed, analysed and reported 6, 10,192 tests in the reporting period. The detailed statistics is given below:

NAME OF TESTS	TOTAL NUMBER OF TESTS PERFORMED
Biochemistry	2,50,245
Haematology	3,28,529
Coagulation Studies	5,250
Blood Grouping	4,161
Tumour Markers& Special Tests	4,849
Therapeutic Drug Monitoring (TDM)	338
ABG Analysis	437
Urine Analysis	2112
Serology (HIV, HBSAg, HCV)	13,357
Peripheral Smear	607
Bone Marrow Aspiration Smear	307
TOTAL	6,10,192

CONFERENCES, SEMINAR, WORKSHOPS AND PRESENTATIONS

- Dr. Binu K A presented a topic "Pre Analytical Variables in Point Of Care Testing" as resource person at School of Health Sciences, Kannur University, Thalassery Campus, Palayad in the Orientation program on CLINICAL LABORATORY MANAGEMENT for medical Laboratory Professionals on 22-03-2015.
- Dr. Binu.K.A, attended GCLP ISO 15189:2012 Workshop on INTERNATIONAL STANDARDS held on 12th – 14th, March 2015 at Ticel Bio-Park, Taramani, Chennai, India.

STAFF

Name	Designation
Dr. Binu. K. A, PhD	Lecturer In Biochemistry& Lab in Charge
Dr. Shanju PhD	Assistant professor
Mrs. Mini. K. S	Lab Technician
Mrs. Anisha. K	Lab Technician

Ms. Rohini. G. S	Lab Technician
Mr. Aneesh Nechiyan	Lab Technician
Mr. Gokul. L	Lab Technician
Mrs. Smitha Mathew	Lab Technician
Mrs. Shamna. P. V	Receptionist/Data Entry Operator

Microbiology Division

Dr. Sajani Samuel

Assistant Professor



Clinical Microbiology is a branch of Medicine which investigates the causes of infectious diseases. This involves detection, isolation and cultivation of Bacteria, Fungi, Protozoa and Virus.

2) State of the art automated blood culture systems- Bactec 9050

3) Culture of Fungi causing diseases in Cancer patients.

III Other rapid non- culture methods of pathogen detection such as Clostridium difficile toxin assay, Mantoux test etc.

IV Immunology/ Serology: detection and assay (quantitation) of

(a)Antigenic components of Microbial pathogens

(b) Antibody response to the infectious agents

Facilities available

I Microscopy:

- Grams staining of various specimens like pus, sputum, fluid, tissues, urine etc. It aids preliminary diagnosis of bacterial pathogens.
- AFB staining: helps detect tuberculosis bacteria in patients specimen mainly sputum.
- KOH Mount: for detection of fungi as causes of infection
- Iodine Mount/ Saline Mount for detecting pathogenic protozoa

II Culture:

1) Cultivation of bacterial pathogens from various specimens such as urine, blood, sputum, pus etc and their identification and sensitivity to antibiotic drugs by using Automated equipment PHONEIX 100

ACTIVITIES & ACHIEVEMENTS

- Microbiology division is heading the all-important Hospital infection control program. For which various activities are undertaken to minimize (reduce) the rates of infection there by providing for a safe environment to the patients as well as to the Staff.
- One Month training Program conducted for undergraduate and post graduate students of various colleges
- Short term training program conducted on Clinical Microbiology

PATIENT SERVICES:

Samples Handled: Total No. of Samples: 7,153

Samples Details

TYPE	TOTAL NUMBER
Urine	1478
Blood	1835
Faecal	23
Respiratory(Sputum, throat swab)	627
Pus (wound Swab/ swab/ dead tissues/ Exudates)	1474
Sterile body fluid	68
Environmental Swabs	1648

CONFERENCES/SEMINAR/WORKSHOP

- Dr. Sajani Samuel presented a paper in the National level Seminar on Microbes in Human Perspectives in this Millennium, 7th Jan 2015 / Tiruvannamalai
- Dr. Sajani Samuel presented a paper in Global Trends and Challenges in Biosciences, 5th and 6th December 2014/ Chennai
- Dr. Sajani Samuel participated in Continuing education Programme on Nutrition 15 Nov 2014/ MCC, Thalassery
- Dr. Sajani Samuel participated in A- Z About detection of Bacterial Pathogens 3rd Dec 2014/ Chennai
- Dr. Sajani Samuel participated in Intro to R, MCC, Thalassery
- Dr. Sajani Samuel delivered a lecture in International conference on Herbal Medicine and Neuroendocrinology, 13th Oct 2014/ Chidambaram
- Dr. Sajani Samuel delivered a talk in Global Trends and Challenges in Biosciences, 5th and 6th Dec 2014/ Chennai
- Dr. Sajani Samuel Attended a workshop on Advanced course in PCR technique 27/10/14-31/10/2014 / Manipal.

Blood Bank and Transfusion Medicine Division

Dr. Mohandoss
Assistant Professor



Blood Bank forms an integral part of health care system. Our blood bank is one of the well equipped state of art blood bank in North Kerala which caters to hospitals in and around Thalassery. In addition to the routine activities,

blood bank works with department of clinical hematology to support bone marrow transplant program. Our blood bank has established innovative improvements in transfusion medicine, so we exceed the performance of traditional blood bank which handles only blood product. We focus on continued improvement in laboratory operations to enhance patient care and adding new services aimed to improve overall transfusion services in the hospital.

PATIENT SERVICES

During the year 2014-15, 3962 blood units were collected in our centre. We organized 12 blood donation camps. In order to promote rational use of blood, 100% blood components were issued from our centre. During this period, we issued 7343 blood components (PRBC-3451; Platelets-3217; FFP-545; Cryo-130units).

CONFERENCES/SEMINAR/WORKSHOP

Presentations

- Dr. Mohandoss- Prevention of Transfusion Transmitted Infections, ISBTI, State Chapter, Ernakulam on 01.03.15.
- Dr. Mohandoss- Blood Component Therapy, in Orientation Programme on Clinical Laboratory Management for Medical Laboratory Professionals on 21.3.15
- Dr. Mohandoss- Rational use of blood components and Management of Transfusion Reactions in DH, Kanhangad on 26.3.15.

Training

Mr. Sabeesh and Mr. Shibin attended training in stem cell collection and processing in ACTREC, TMH Mumbai from 01.03.15 to 16.3.15

Facilities Available

Blood Bank has facilities for

- Blood Components
- Apheresis
- Cryopreservation of Stem cells

CD34 Enumeration

Division of Genetics and Cytogenetics

Dr. Deepak Roshan

Lecturer



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:-

- 1) To explore the molecular mechanisms of cancer; the research fields include genomics, proteomics and signal transduction pathway.
- 2) 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 is 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 BSc MLT students and dissertation works for MSc/MD/MDS students; in near future we will be initiating doctoral course. These academic activities of the division will provide a greater level of exposure to the students in advanced molecular technique used for molecular research and molecular diagnosis.

ACTIVITIES & ACHIEVEMENTS

- 1) Molecular analysis of BCR-Abl and PML-RARa started on routine bases.
- 2) Training –

Duration of training	No Students	Specialization
2 Months	1	MSc Biotechnology
15 days	2	B Tech Biotechnology
3 Days (observation)	19	BSc MLT

STAFF

Name	Designation
Department of Clinical Laboratory Services and Translational Research	
Onco pathology Division	
Dr. Sangeetha.k.Nayanar	Professor&HOD
Dr. Kavitha K	Associate Professor
Dr. Aswathi.K	Assistant Professor
Dr. Sithara Aravind	Assistant Professor
Dr. Akhil R Nambiar	Assistant Professor
Ms. Sabna Dev. S.K	Cytotechnologist
Ms. Nimi. G.K	Cytotechnologist
Mr. Shefeeque. I	Cyto Technician

Ms. Reena K C	Lab assistant
Microbiology Division	
Dr. Gufran Ahmmed Bijapur	Consultant Microbiologist(Visiting)
Dr. Sajini Samuel	Assistant Professor
Mrs. Sindhu	Lab Technician
Biochemistry Division	
Dr. S. Shanju	Assistant Professor
Dr.Binu. KA	Lecturer in Biochemistry& Lab in charge
Mini. K.S	Lab. Technician
Rohini.G.S	Lab. Technician
Anisha Bhaskaran	Lab. Technician
Anish	Lab. Technician
Mr. Gokul L	Lab Technician
Mrs. Smitha Mathew	Lab Technician
Mrs. Shamna P V	Receptionist/Data Entry Operator
Blood Bank and Transfusion Medicine Division	
Dr. M. Mohandoss	Assistant Professor
Mr. Sabeesh	Technician
Mr. Shibin	Technician
Mr. Anoop Joy	Technician
Mr. Sajeesh	Technician
Mrs. Soumya	Technician
Mrs. Savitha	Nursing staff
Mr. Arun	Lab Assistants
Ms. Jasna	Counsellor
Genetics Division (including Cytogenetics)	
Dr.Deepak Roshan	Lecturer
Vincy Augustin	Lab Technician

DEPARTMENT OF CANCER REGISTRY & EPIDEMIOLOGY



Dr. Saina Sunilkumar
Lecturer & HOD in charge

Smt. Bindu T	Lecturer in Biostatistics
Sri. Ratheesan K	Lecturer in Biostatistics

Department of Cancer Registry and Epidemiology was established in the year 2010 and started Hospital Based Cancer Registry partially supported by National Cancer Registry Programme (ICMR), Bangalore and published the third Hospital Based Cancer Registry report 2013 during the report period. The report provides the magnitude, leading site of cancers, demographic, diagnostic and clinical details of patients registered at MCC during the year 2013 (Table 1). The most leading cancers found in males and females were cancers of Lung (19.5%), and Breast (32.0%). The department also launched Malabar Population Based Cancer Registry (MPBCR) in January 2014 and published six month report which contains the number of newly registered cancer patients, and the number of death occurred due to cancers in these districts (Table 2).

To assess the epidemiological evidence on diet and cancer and to make public health recommendations, the department started new project titled "Lifestyle and Cancer" and for that the department commenced new lifestyle registration and started to enter the data into the new software.

To obtain the clinical stage and treatment based survival in all registered and treated patients the Department started a funded project of NCRP/ICMR, Patterns of Care & Survival Studies in

Breast, Cervix & Head & Neck cancers started in 2014. This project will help to obtain reliable data on magnitude and patterns of cancer and to undertake epidemiological studies and it will also provide information for developing appropriate strategies to aid in National Cancer Control Programme.

The department has the following divisions,

1. Cancer Registry Division
2. Medical Records Division
3. Health Information Technology Division
4. Clinical Research and Biostatistics Division

ACTIVITIES AND ACHIEVEMENTS

- Hospital Based Cancer Registry Report 2013: Published the HBCR Report for the year 2013.
- Malabar Population Based Cancer Registry: Published the six months report.
- Patterns of care and Survival Studies : To obtain the survival based on the clinical stage and treatment the department started Patterns of Care and survival studies in Breast, Cervix & Head & Neck cancers and completed the data entry for the year 2013.
- Pink Ribbon Day- the Department observed the National Breast cancer awareness day (Pink Ribbon day) in October 2014.

STATISTICS

Table 1: Total number of cancers registered in 2013

Males		Females		Sex Ratio	Total Cases
#	%	#	%		
2031	53.1	1793	46.9	113	3824

Leading site of cancers – Males

RANK	SITES (ICD- 10)	#	%
1	Lung etc.(C33-34)	397	19.5
2	Mouth (C03-06)	157	7.7
3	Stomach (C16)	135	6.6
4	Tongue (C01-02)	116	5.7
5	Larynx(C32)	103	5.1
6	Oesophagus (C15)	88	4.3
7	Rectum (C19-20)	85	4.2
8	Prostate (C61)	77	3.8
9	NHL(C82-85,C96)	72	3.5
10	Bladder (C67)	65	3.2
	All Sites	2031	100.0

Leading site of cancers – Females

RANK	SITES (ICD- 10)	#	%
1	Breast (C50)	574	32.0
2	Cervix Uteri(C53)	131	7.3
3	Mouth (C03-06)	124	6.9
4	Ovary etc. (C56)	114	6.4
5	Rectum (C19-20)	72	4.0
6	Lung etc. (C33-34)	71	4.0
7	Tongue (C01-02)	60	3.3
8	Thyroid (C73)	59	3.3
9	NHL(C82-85,C96)	55	3.1
10	Stomach (C16)	53	3.0
	All Sites	1793	100.0

Six Months MPBCR Report

Incidence Cases after duplication

Kannur	-	921
Kasaragod	-	309
Mahe	-	17
Total	-	1247

Mortality data after duplication

Kannur	-	925
Kasaragod	-	371
Mahe	-	3
Total	-	1299

Research Programme : Given guidance to MSc statistics students for two projects

1. A Retrospective Study of identifying the risk factors for stomach cancer.
2. Patient and disease related factors associated with Survival, lost-to follow up/Drop outs of cervical cancer patients – A retrospective study”.

GRANTS AND SCHEMES

Funded Project of NCRP, ICMR-Patterns of Care and Survival Studies (POCSS)

Sl. No.	Letter No. and Date	Amount
1	NCDIR/NCRP/COU/HBCCR/778/2012/821 dated 12 September 2014	1,10,000.00
	Total	1,10,000.000

Medical Records Division

Sri. Jayadev G
Medical Records Officer



Sri. Suraj Kumar	Medical Records Assistant
Smt. Suha P	Medical Records Attender

DEP WISE OUTGOING FIES 2014- 2015

1	Surgical Oncology	29355	16	IP	475
2	Cancer Registry	15670	17	Brachy OT	379
3	Radiation Oncology	15433	18	Day Care	266
4	Simulator	4268	19	Multi Speciality Board	219
5	OP	4057	20	Director	218
6	Reception	3737	21	Speech Therapy	187
7	Medical Oncology	3374	22	Dental	146
8	KBF	2407	23	Pulmonology	108
9	Haemato Oncology	2275	24	OT	92
10	Endoscopy	1763	25	Pre Anesthetic Check	85
11	RT OP	1279	26	Day Chemo	70
12	MRD Reserve	976	27	CT Scan	46
13	Palliative	835	28	Community Oncology	29
14	Pathology Dept.	711	29	Physiotherapy	25
15	TPS	660	30	Nursing	4

OUTGOING FILE DETAILS 2014-2015

Chart movement 2014-2015	
Chart In	89217
Chart Out	89392

Health Information Technology Division

Sri. Ranjith M K
System Manager

Smt. Bavina C	Junior System Analyst
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Highlights:

- Implementing e-Hospital with NIC, an integrated Hospital Management Information System (HMIS).
- Research collaboration with Centre for Development of Imaging Technology (C-DIT) in the area of Health Information Technology.
- National Knowledge Network (NKN) connectivity at MCC.
- e-Procurement Mission Mode Project of Govt. of Kerala at MCC
- e-Palliative: An online Palliative Care and Support Network System developed in association with C-DIT.

- Implemented Malayalam Computing at MCC in association with Akshaya Project.
- Online Birth & Death Registration in association with Information Kerala Mission.
- Published Guidelines for computer users at MCC.

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 health care related software's and has extended support to Malabar Cancer Centre for its developments in the new arena of Health Information Technology. We are in the stage of implementing an integrated Hospital Management Information System (HMIS) that automate all most all the activities of the hospital and improve patient care. Also the division is looking forward in research projects, in applications of Health Information Technology for cancer awareness, diagnosis, detection and prevention. This is just the beginning of a new era, where in the world of information technology is going to initiate health information technology.

Health information technology and exchange provides the umbrella framework to describe the comprehensive management of health information and its secure exchange between consumers, providers, government, quality entities, and insurers. Health information technology (HIT) in general is increasingly viewed as the most promising tool for improving the overall quality, safety and efficiency of the health delivery system. Broad and consistent utilization of HIT will: Improve health care quality; Prevent medical errors; Reduce health care costs; Increase administrative efficiencies; Decrease paperwork; and Expand access to affordable care. In line with recent advances in Information Technology, the Health Information Technology Division as the heartbeat of a Digital MCC, provides, operates and maintains effective, dynamic user friendly data systems that will enable the Malabar Cancer Centre to achieve its vision of a centre of excellence.

ACTIVITIES & ACHIEVEMENTS

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 and the planning and implementing of information systems to support both clinical and busi-

ness operations and achieve more effective and cost beneficial IT operation. The division led to implement the hospital policy for information and associated computer technology. It undertakes broad system development and research and has responsibilities for organizational change to support new system.

The major responsibilities of the division are as follows;

- a) Plan for the Information Technology needs of the organization including electronic health records, voice, data, imaging, telecommunication, office automation.
- b) Plans and manages the implementation of new information systems and software acquisitions.
- c) Manages system administration including local area networks.
- d) Researching and installing new systems.
- e) Managing and Administering the official website of the organization
- f) Develop and implement policies and procedures for computer systems and operation and maintains the privacy and security of all IT information.
- g) Ensures the cost-effective expenditure of resources
- h) Perform other relevant duties as identified that support the mission and vision of Health IT division and MCC.

The major activities of the division are as follows;

1. Research Tie-up with C-DIT: Research collaboration with Centre for Development of Imaging Technology (C-DIT) in the area of Health Information Technology. Initial research projects are under implementation.
2. National Knowledge Network: Implemented National Knowledge Network (NKN) connectivity at MCC.
3. Implementing e-Hospital with NIC, an integrated Hospital Management Information System (HMIS) at MCC.
4. Updating and Maintaining a dynamic website for MCC in English and Malayalam Languages with the domain www.mcc.kerala.gov.in
5. Implemented e-Procurement Mission Mode Project of Govt. of Kerala at MCC
6. e-Palliative: An online Palliative Care and Sup-

- port Network system developed in research collaboration with C-DIT. The trail running is going on successfully with the help of Palliative Groups in Kannur Districts.
7. Computer Hardware Maintenance: Providing Computer Hardware, Network and Software Maintenance and support to all the departments at MCC
 8. Handling Computer Science classes for B.Sc. (MRT) students.
 9. Edu@Expert: Delivering series of lectures using Telemedicine facilities about cancer awareness to Nursing Students and Staff at various institutions.
 10. Providing Telemedicine support for Diagnosis.
 11. Online Examination and Online Career Application: Implemented online examination facilities to recruitments on contract and project basis. Online application software implemented and maintained for inviting applications online.
 12. Academic Project support: Providing Project support for MCA, B.Tech, M.Sc. IT, M.Sc. Computer Science, BCA, B.Sc. Computer Science, B.Sc. IT Students.
 13. Online Birth & Death Registration: Co-ordinated with Information Kerala Mission, online Death and Birth Registration Implemented at MRD.
 14. Fundamental Computer Training to all staff as part of Modernization.
 15. Started development and implementation of several health IT applications like Diet Management Software, Clinical Calculator, Medical Records Digitization and Archiving System, Cancer Mapping Software, Online Examination Software, etc.
 16. Support given for preparing Brochures, banners and website for various seminars and workshops organized by MCC.

STATISTICS

Technology Infrastructure Details under the Division:

The following hardware and network infrastructures are managed by the division

Hardware:	
Server Computer	09
Work stations	31
Desktop Computers	139
Laptop	09
Network Printer	08
Ink jet Printer	08
Dot matrix Printer	11
Laser Printer	29
Scanner	08
UTM firewall	01
Switch (10/100/100)	23
Modems	03
LCD Projector	08
High Resolution Digital Visualizer	02
Over Head Projector	01

II. Network Infrastructure:

- 1) National Knowledge Network (NKN) Dedicated internet connection
- 2) 2 BSNL Broad band Connection with static IP
- 3) 1 BSNL Internet connection (NNECT)
- 4) Kerala State wide Area Network connection (KSWAN)
- 5) Structured Cat6 cabling (LAN)

Research Collaborations and Projects Supported:

1. e-Palliative: An online Palliative Care and Support Network system developed in research collaboration with C-DIT. The trail running is going on successfully with the help of Palliative Groups in Kannur Districts.
2. e-Dietician- An open source web based Nutrition and Diet Management Software: The design and development work is going on in research collaboration with C-DIT.

PUBLICATIONS

1. "Sthanarbudham", State Institute of Languages, Kerala, June 2014, ISBN 978-81-7638-707-1.
2. "Arogya Paripalanathinu Vivara Sankethika Vidhya"(Malayalam), Ranjith MK, Janapadham Vol.3 Sl.1, March 2014.

RESEARCH PROGRAMMES

1. A Cross sectional study to evaluate the Computer Literacy among the Medical Staff at Malabar Cancer Centre, Thalassery-Ranjith MK, Ratheesan K, Dr.SainaSunilkumar.
2. To assess the Level and Extent of Usage of Health Information Technology in various Hospitals in the Malabar Region of Kerala State and to identify the challenges faced during the implementation-Ranjith MK,Dr. Saina Sunilkumar, Bindu T, Ratheesan K

Clinical Research and Biostatistics Division

Sri. Subhradev Sen	Lecturer in Biostatistics
Dr. Atanu Bhattacharjee	Lecturer in Biostatistics

The Division of Clinical Research & Biostatistics came into acting position from April-2013 under the Headship of Dr. Saina Sunil Kumar of the Department of Cancer Registry & Epidemiology. Now it is functioning under the headship of Director, MCC.

The Division was started with an aim of conducting Clinical Research and advanced level Statistical work to improve the quality of Scientific Research in the Centre. The Division was also aimed at starting academic activities in the centre.

ACTIVITIES & ACHIEVEMENTS

1. Achieved Official affiliation as a Research Institute from Kerala University of Health Sciences, Thrissur.
2. Established Institutional Review Board with delegate sub-committees and SOPs for conducting systematic research activities in the centre.

3. Conducted National Level Workshops on modern issues and Biostatistics.
4. Regular Classes in Biostatistics started for Faculty members/Researchers/Fellows of the centre.
5. Initiated Scientific Advisory Committee for developing Research & Academics in the Centre.

PUBLICATIONS

1. A Bhattacharjee, Distance correlation coefficient: An application with bayesian approach in clinical data analysis, Journal of Modern Applied Statistical Methods 13 (1) (2014) 23.
2. Bhattacharjee, A, Bayesian competing risks model: An application to breast cancer clinical trial with incomplete observations, Journal of Statistics and Management Systems 18 (4) (2015) 381-404.
3. M.S. Biji, Santam Chakraborty, NR Sindhu, Shibimol Thomas, Subhradev Sen, Milind Ku-

mar, Satheesan Balasubramanian, Effectiveness of nurse-led and physician-assisted homecare provided from a rural cancer center in India evaluated using the palliative care outcome scale, ,Journal of Clinical Oncology 32, 2014 (suppl; abstr e20544).

4. Sankaran BM, Chakraborty S, Patil VM, Raghavan SN, Thomas S, Sen Subhradev. Burden and outcomes of pressure ulcers in cancer patients receiving the Kerala model of home based palliative care in India: Results from a prospective observational study. Indian journal of palliative care. 2015 May;21(2):152-157
5. Sen, Subhradev, M. S. Biji, Santam Chakraborty, N. R. Sindhu, and Satheesan Balasubramanian. "Pairwise Comparison in Repeated Scores-Ap- plication in Palliative Cancer Patients." Journal of Data Science 13 (2015): 795-806.
6. Sankaran, Biji M., Santam Chakraborty, Vijay M. Patil, Sindhu N. Raghavan, Shibimol Thom- as, and Subhradev Sen. "Burden and outcomes of pressure ulcers in cancer patients receiving the Kerala model of home based palliative care

in India: Results from a prospective observa- tional study." Indian journal of palliative care 21, no. 2 (2015): 152-157.

7. Patil VM, Muttath G, Babu S, Kumar ST, Jones J, Sen Subhradev, Chakraborty S. Does the use of induction chemotherapy in oral cavity cancer compromise subsequent loco-regional treat- ment delivery: Results from a matched pair analysis. Indian journal of cancer. 2015 Oct 1;52(4):632-636.

CONFERENCES/SEMINAR/WORKSHOP

1. The division observed "World Quality Day 2014" on 13/11/2014 followed by a day workshop on Statistical Software (R) Training.
2. Attended and presented Research papers in In- ternational Conferences in Florence, Italy, and Tirupati, India.

RESEARCH PROGRAMS

- 5 IRB Approved Studies
- 5 Ongoing

STAFF

Name	Designation
Cancer Registry & Epidemiology Division	
Dr. Saina Sunilkumar	Lecturer, HOD in charge
Smt. Bindu T	Lecturer in Biostatistics
Sri. Ratheesan K	Lecturer in Biostatistics
Health Information Technology Division	
Sri. Ranjith M K	System Manager
Smt. Bavina. C	Junior System Analyst
Medical Records Division	
Sri. Jayadev G	Medical Records Officer
Sri.Surajkumar Chandran	Medical Records Assistant
Smt. Suha P	Medical Records Attender
Clinical Research and Biostatistics Division	
Sri. Subhradev Sen	Lecturer in Biostatistics
Dr. Atanu Bhattacharjee	Lecturer in Biostatistics

DEPARTMENT OF COMMUNITY ONCOLOGY



Dr. Neethu A P
Lecturer , HOD i/c

Dr. Phinse Philip

Lecturer

High lights:-

Project on Evaluation of feasibility and appropriateness of LBC in cervical cancer screening in resource constrained setting- in collaboration with HTIC, IIT Madras.

It was a Multicentric observational trial designed and coordinated by HTIC and the Institutions involved are Malabar Cancer Center, Thalassery and PGIMER Chandigarh

Activities for improving public health by creating awareness on cancer have always been the priority of Community Oncology Department. This year focus was on school tobacco programs and colposcopy project.. National cancer awareness day, World cancer day and No tobacco day, international day against drug abuse and illicit trafficking were observed by hosting public programmes. Activities of the department are spread in 6 districts Kannur, Kasargode, Waynad, Kozhikode, Palghat, Malappuram and UT of puducherry.

Anti-Tobacco Cell- Malabar Cancer Centre:

Anti-tobacco cell was formed on 31-10-11 under Community Oncology Department of Malabar Cancer Centre. The cell consist of eminent person-

alities 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 menaced by the tobacco use. The Executive Committee of the cell comprises the following members - Dr. Satheesan Balasubramanian (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 and making of newsletter NETHI.

ACTIVITIES & ACHIEVEMENTS

In addition to routine activities like cancer awareness classes, anti-tobacco campaign and early cancer detection camps, the department also organized the following activities-

World No tobacco day on May 31st

The community oncology department of Malabar cancer centre conducted various programs on 28th, 29th, 30th and 31st of May 2014 at Kannur. The programs include press conference, sending memorandum to finance minister to raise tobacco tax, health exhibition, literary and

painting competition, seminars, anti-tobacco rally and public meeting on world no tobacco day. The program was conducted in association with Police Association and Police Officers association, Kannur.

Observation of loka lahari virudha dinam 26/6/14

Release of anti-tobacco short film “U TURN” by renowned writer Sri M Mukundan at pearl view regency, Thalassery. Writer T. Padmanabhan was the chief guest of the function. The first premiere was attended by student representatives and teachers of Kannur district and Mahe, Director of MCC, DDE Kannur, municipal chairperson Thalassery, DEO, AEO, eminent literary, social and political activists. The entire film crew were honored at the function.

National cancer awareness day(7/11/14):-

The national cancer awareness day was observed on 7th of November 2014 by community oncology department of Malabar cancer centre in association with Kudumbashree mission Kannur.

The programs were based on the theme “ARBHU-DATHINETHIRE ADUKKALAYIL NINNU” (from kitchen, against cancer). The awareness campaign program focuses on the role of life style changes, dietary habits and lack of physical activity and exercise on the increasing cancer incidence. The campaign will help the kudumbashree units in organizing groups of morning walkers and evening walkers. A training session on life style changes and diet was conducted for the selected representatives of kudumbashree. The participants will conduct similar training sessions in their local units and will also coordinate the formation of health clubs in each unit. The pamphlets on safe life style and diet practices will be distributed in each unit. The members will get opportunities for interacting with the doctors of community oncology department of MCC. A cervical cancer screening camp and exhibition was also conducted as part of the program.

World Cancer Day- Feb 4: -

World cancer day was observed on Feb 4th at Parakkettu village. A seminar was organized for health volunteers. Classes were held on the topics “cancer -an introduction” and: diet and cancer”. Thalassery Block panchayat president inaugurated the program.

Tribal community programme at Kelakam, Kalpetta

–early cancer detection camps were conducted.

“THIRICHARIVU”-A one day cancer awareness program with exhibition, seminar, quiz, painting etc organized by ASRAYA charitable society and Malabar cancer centre on 14th FEB15. Kodiyeri Balakrishnan MLA inaugurated the program. Cancer survivor and painter Ebby N Joseph, media person Saneesh, MCC director Dr Satheesan Balasubramanian were the other dignitaries present at the program.

Training programmes

- Training for survey volunteers of “KAITHANGU”, cancer control project of Thaliparamba municipality.
- Training for survey volunteers of cancer control project of Thalassery municipality.
- A training session on life style changes and diet was conducted for the selected representatives of kudumbashree.
- VIA training for nursing assistants as part of HTIC cervical cancer screening project.

RESEARCH PROGRAMMES

- 1) Project on Evaluation of feasibility and appropriateness of LBC in cervical cancer screening in resource constrained setting- in collaboration with HTIC, IIT Madras. It was a multicentric observational trial designed and coordinated by HTIC and the Institutions involved are Malabar Cancer Center, Thalassery and PGIC Chandigarh. As part of the project, 2076 women were screened with VIA, Pap smear (LBC and conventional) and colposcopy. Project is under evaluation.
- 2) Arogya saksharatha project Parakkettu (2014-2017)

The community based project was designed to assess the impact of awareness on the general improvement of health status of the people. A local residential community with 300 houses will be selected for the implementation of the project. The aims and objectives of the project - To promote the participation of civil society in the management of basic health care needs. To train the volunteers of the local community in first aid, basic life support and preliminary management of medical conditions, Dissemination of information on health related matters, efficient waste management, clean surroundings and safe water, promotion of healthy lifestyle, dietary habit and sustainable environmental pra-

cises. The first session was on December 7, 2014.

3) SANSAD ADARSH GRAM YOJANA (SAGY)

“Total health care and health literacy to all – Adoption of Kuttiaattoor GP by Malabar cancer centre for total health care and health literacy for all”. The first meeting of the project was held on 28-3-15 at kuttiaattoor GP. Director of Malabar cancer centre Dr Satheesan Balasubramanian presented the preparation plan of the project. The 3 year long project will be implemented in 5 phases. 160 SAGY volunteers were present at the meeting. Smt. Sujatha.C (president, Kuttiaattoor GP), Sri. V Sudesan (Asst. Project Officer and

Charge officer-SAGY), Dr Phinse M Philip (Malabar cancer centre), Dr.K.K. Prajina (Medical officer, Kuttiaattoor) were also present at the function.

- 4) **KAITHANGU** - cancer control project by Thaliparamba municipality. Training, house to house survey and 4 camps were conducted as part of the project.
- 5) Involved in project for cancer control in various panchayats.
- 6) Cancer detection camps for high risk groups (HIV positive patients) at Kannur, Kozhikode and Kasargode districts.

STATISTICS

High risk camps (HIV positive) district wise

Kannur	Calicut	Total
3	5	8

Statistics of routine activities

District wise distribution of camps 2014-2015

Kannur	Kozhikode	Kasaragod	Waynad	Palakkad	Mahe
115	37	2	22	0	4

Details of Pap smears and FNAC done at camp

Total Pap Smear- 3237

ASCUS- 63, ASC-H - 7, LSIL- 22, HSIL -6

Total FNAC taken -10

PUBLICATIONS

- 1) Newsletter 'NETHI' by anti-tobacco cell of MCC (3 volume/year). 5000 copies of each volume are circulated among students & public.
- 2) Hand book on tobacco for school students and public.

CONFERENCES/SEMINAR/WORKSHOP

Seminars:-

- 1) Seminars on tobacco control for SPC cadets on 30-5-15 at Kannur.
- 2) Seminar on role of kudumbasree in tobacco control on 30-5-14 at Kannur.
- 3) Seminar on diet and lifestyle in cancer control for kudumbasree workers on 7-11-15

RESEARCH PROGRAMS:-

Project on cervical cancer screening in collaboration with HTIC, Madras.

STAFF

Name	Designation
Dr. Neetu A.P	Lecturer, HOD i/c
Dr. Phinse .M. Philip	Lecturer
Mr. Santhosh Kumar. K	Lab Assistant
Mrs. Nisha	Nursing assistant

Department of Onco Anesthesiology

Department of Onco Anesthesiology is committed to taking care of cancer patients undergoing surgery in Malabar Cancer Centre. We have state of the art work stations and ventilators. All types of anesthesia are given here meticulously and we strive towards giving better care and reducing complications.

Post-operative intensive care unit is equipped with all necessary instruments and we have well trained staffs. We conduct regular training programs for all staffs in advanced life support techniques usage of life saving instruments

PATIENT SERVICES

Total number of major cases	1162
General anaesthesia alone	762
General anaesthesia +Epidural anaesthesia	281
Spinal anaesthesia alone	107
Epidural anaesthesia+spinal anaesthesia	12

STAFF

Name	Designation
Dr Krishna Warriar	Visiting consultant Anesthesiologist
Dr Prajeesh Nambiar	Visiting consultant Anesthesiologist
Dr Limesh	Visiting consultant Anesthesiologist
Dr Anil B	Visiting consultant Anaesthesiologist
Dr Sarath K	Visiting consultant Anaesthesiologist
Dr Smera K	Visiting consultant Anaesthesiologist
Dr Pradeep K	Visiting consultant Anaesthesiologist
Dr Nikhil Mohan	Lecturer

DEPARTMENT OF CANCER PALLIATIVE MEDICINE



Dr. Biji MS
Assistant Professor

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 counseling 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.

Cancer Palliative Medicine Division has an inpatient, outpatient and home care facility.

Homecare facility for the needy patients 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. This year 160 patients have registered in homecare facility. Patients are given medication free of cost. Procedures like ascitic tapping, wound dressing, catheterization, ryles tube introduction are done. Apart from this psychological support to the patient and their families are also given.

ACTIVITIES & ACHIEVEMENTS

1. 4th batch of 8 weeks IAPC course “Essentials in Palliative care” was conducted. 10 doctors completed the course successfully in August 2014.
2. As part of pain Free Hospital Initiative sessions for nursing staffs on pain management held regularly.
3. In collaboration with Department of Cancer Palliative Medicine, MCC, Anjarakandy Higher Secondary School had organized a program “SAANDWANA YATRA” as part of “NALLAPA-ADAM” project of MANORAMA Daily. Students entertained the patients with different musical programs and also donated Rs 25,000 towards Bone Marrow Transplantation being conducted at MCC.
4. World Palliative care day was observed on 11th October 2014. A “Workshop on Communication Skills” was organized for all the staffs of MCC. A total of 114 members consisting of Nurses, Nursing Assistants, Ward Assistants, Security personnels, cleaning staffs, Theatre technicians participated in the program.
5. As a National faculty of IAPC Dr.M.S.Biji was invited to take various sessions in the course “Essentials in Palliative care” conducted by IAPC at Yenepoya Medical college.
6. Dr.M.S.Biji was invited to take a class on “Palliative care & Health” at the inaugural function of “Jeevakarunya Nidhi” conducted by Kavumbhagam Vayanasala.

7. In connection with Palliative care day, a get together program “KUDUMBA SANGAMAM” of our patients was conducted on 17.1.15. About ... no of patients and relatives participated in the program. Cultural program involving patients and relatives was the highlight. Paintings of one of our youngest member Pranav, coin collection of Mrs Ayesha and a poetry of Mr. Balakrishnan were also exhibited.
8. As a National Faculty in Palliative care, Dr. M.S. Biji was invited to conduct the examination of the 1st IAPC course in “Essentials of Palliative care” at Yenepoya Medical College.
9. Mrs Sindhu.N.R attended the training programme conducted by Taluk hospital Peravoor, for staff nurses & community health nurses as faculty.

PATIENT SERVICES

Description	Number
Total no of OP patients	4802
Total no of IP patients	1505
Total no of new cases registered	1751
Total no of homecare patients	160

PUBLICATIONS:

1. Santam Chakraborty, M Geetha, K M Sujith, M S Biji, B Sateeshan, South Asian journal of cancer. 07/2014; 3(3):166-70.
2. Pilot study of single-day distress screening with the NCCN distress thermometer to evaluate the feasibility of routine distress screening in tertiary cancer center in rural India.
Dessai SB, Santam Chakraborty, Sajeev Kumar PB, Sajith Babu, Geetha Muttath, Chandran Nair, Shivakumar Thiagarajan, Biji Sugghosh, Atanu Bhattacharjee, Patil VM
Psycho-Oncology 12/2014; • 4.04 Impact Factor
3. Burden and outcome of pressure ulcers in cancer patients receiving the Kerala model of home based palliative care in India: Results from a prospective observational study. Biji M Sankaran, Santam Chakraborty, Vijay M Patil,

Sindhu N Raghavan, Shibimol Thomas, Subradev Sen Indian Journal of Palliative care, volume 21/ Issue 2/May-August 2015 (pg 152-157)

CONFERENCES/SEMINAR/WORKSHOP:

1. Mrs. Sindhu N.R attended the two day Annual conference of enterostomal therapist conducted by Association of Enterostomal Therapist at Regional Cancer Center, Thiruvananthapuram

RESEARCH PROGRAMS

Mrs. Megha Agarwal, 4th Semester student in MBA of Sikkim Manipal University Distance Education did her project “Evaluation of Job strain among healthcare workers working at a tertiary cancer center in India” under the supervision and guidance of Dr. M.S. Biji

STAFF

Name	Designation
Dr. M.S Biji	Assistant Professor and Head of the Department
Smt. N R Sindhu	Staff Nurse

DEPARTMENT OF DENTISTRY AND REHABILITATION



Dr. Pramod Sankar. S
Associate Professor

Dental Out- patient department caters the dental needs of registered cancer patients. More than 1000 patients undergo dental consultations every year. Department does a counseling on the importance of dental hygiene, expected dental problems due to cancer treatment and a dental screening prior to initiating any form of cancer treatment. The department is equipped to carry out the basic dental procedures like dental extractions and oral prophylaxis. The patients who underwent radiation therapy will be closely monitored for the oro- dental complications and the necessary advices and treatments will be initiated.

ACTIVITIES & ACHIEVEMENTS

1. 1502 patients had dental consultations this year.
2. 563 dental extractions were performed.
3. 132 scaling were performed.
4. With an aim to provide dental & maxillofacial rehabilitation services, a maxillofacial prosthodontist was appointed from Sep 2014.
5. Now the dental OPD is equipped to provide minor restorations, Root canal treatments, removable and fixed prosthesis and will be delivering those treatments from 2015.
6. Initial trials on delivering maxillofacial silicone

prosthesis has been carried out and that will also start functioning by 2015.

7. The dental unit can now deliver surgical obturators.
8. Definitive prosthesis like CPD's and conventional complete dentures can also be delivered.

PATIENT SERVICES

Consultations	1502
Extractions	563
Oral prophylaxis	132

CONFERENCES, SEMINAR, WORKSHOPS AND PRESENTATIONS

1. Pune head and neck cancer meeting.7 -8 march 2015. Pune, india
2. Dental department displayed a poster 'DENTAL ONCOLOGY' in the programme 'THIRICHARIVU' on 14/02/2015
3. Indo-Swedish educational summit at AIC, Kannur 9-11 Jan 2015.

STAFF

Name	Designation
Dr. Pramod Sankar S.	MDSAssociate Professor

DEPARTMENT OF ENGINEERING AND MAINTENANCE



Sri. Sudeep K T
Engineer

MCC is having a well-functioning Engineering section. The Department undertakes all the construction works, Installation of all Medical / Electrical equipments, day to day maintenance works in the hospital such as daily inspection and monitoring of HT Yard, all electrical equipments such as transformer VCB, Generators etc., maintenance of Electrical installations, Panel boards, Streetlights maintenance of whole medical/ clinical/ radiation equipments split and ductable Air conditioners, chiller units, plumbing lines etc. This department manage water supply system in the hospital with number of filtered drinking water outlets and maintain well planned sanitary lines with sewage treatment plant

In addition to the above, the AMC of all Hospital equipment and insurance processing of whole Hospital equipment, building, road and other structures under different categories and taking necessary steps to realize claims whenever a damage/replacement occurs etc are handled. For each and every needs of our hospital we are providing all timely supports as required and attended all the complaints from all sections the day itself. We communicate with consultants in

our construction works and gave necessary instructions regarding works and liaison works with BSNL, KSEB, and Electrical Inspectorate etc

Procedures followed in Malabar Cancer Centre for carry out various works:

Major works

1. As per the requirement of MCC, rough cost estimate submitted before Government for Administrative sanction.
2. After getting Administrative Sanction, prepared drawings and estimate with prevailing CPWD DSR and send to Govt. College of Engineering, Kannur for verification.
3. For special type works like purchase of HT Generator, Telecommunication system, 400 KLD STP etc, Technical Committee will be constituted with subject experts and the committee will verify the estimate, technical bid etc
4. Submitted the verified estimate, drawings and the report of the technical committee before the Building Committee of MCC for technical sanction

Members of Building committee

Members	Position
Executive Engineer, LSGD, Kannur	Chairman
Executive Engineer, PWD Buildings & local works, Thalassery	Member
District Medical Officer, Kannur	Member
Superintendent, General Hospital, Thalassery	Member
Director, MCC	Member
Administrative Officer, MCC	Member
Accounts Officer MCC	Member
Engineer MCC	Convenor

5. After getting approval from Building Committee, we submitted the proposal including estimate before EC of MCC.
6. After EC's decision we tendered the work as per prevailing rules
7. Negotiated with lowest tender and submitted the report before building committee.
8. After getting approval from Building Committee, work will be awarded
9. For tender excess, needed technical approval for awarding the work.
10. Executed the work with technical support and supervision.
11. Taking measurement and bill preparation.

Minor works

1. Each department submitted their requirement to director.
2. Director instructed Engineering wing to study the feasibility of requirement and site inspection.
3. Report of the above will submitted by the Engineer and the matter will be discussed in the HOD meeting/Building maintenance and evaluation committee
4. As per requirement and necessity of the different sections, Engineering wing prepares the estimate and forward to Govt. College of Engineering, Kannur for verification mean while submitted to director for approval and Administrative sanction Normally PWD SOR/CPWD DSR is adopting for preparing the estimate. The works below one lakh estimate are executed after inviting quotations, by giving wide publicity through Municipal office, PWD office etc. These

types of works are normally ratified in the next Building Committee meeting. In the case of similar works, the verified rates of Govt. college of Engineering, Kannur is being adopted.

Procedures followed in Malabar Cancer Centre for carry out various construction works through Consultant:

1. Request for preliminary estimate and rough drawing will forwarded to Consultant
2. Consultant submitted to the preliminary drawing and preliminary estimate.
3. Submit these documents to Govt. for Administrative Sanction.
4. After getting Administrative sanction, we request the consultant for preparing detailed estimate, drawing, etc.
5. We verify these documents through Govt. College of Engineering, Kannur.
6. Submitted the verified estimate, drawings before the Building Committee of MCC for technical sanction
7. After getting approval from Building Committee, we submitted the proposal including estimate before EC of MCC.
8. After EC's decision, the original work order will issued to consultant.

Payment will be released to the Consultant as per the agreement executed, existing conditions are as follows:

- (1) 25% of value of each work order (excluding consultancy charges) as advance as per request of the consultants, along with letter of acceptance of terms and conditions of work order and execution of a corporate guarantee for the work.
- (2) 25 % of each work order against submission of

utilization Certificate for the released amount, certified copies of passed bills, work progress reports quality certification and expenditure statement.

- (3) 25 % of each work order against submission of Utilization Certificate for the released amount, certified copies of passed bills, works progress reports quality certification and expenditure statement.
- (4) 15 % of each work order against submission of Utilization Certificate for the released amount, certified copies of passed bills, work progress reports quality certification , expenditure statement,
- (5) 10 % each work order against submission of Utilization Certificate for the released amount, certified copies of passed bills, work progress reports quality certification, expenditure statement and fulfillment of (o) & (t) of clause 2

Consultancy Fees payable to the Consultant will release as follows

1.25% of fees on completion of drawing/ data collection/ design/ preliminary works etc.

2.15 % of fees on selection of contractors/suppliers etc.

3.40 % of fees on pro rata basis of reimbursement of contractor's bills/procurement bills.

4.20 % of fees on completion of the work and submission of audited statement of accounts (prepared by chartered Accountants of HLL) for the works completed including utilization certificate for the first installment of payment for works and handing over the building for occupation and on approval by the client

ACTIVITIES & ACHIEVEMENTS

The following achievements/ activities are carried out/ execute in MCC during this tenure in addition above mentioned routine works.

1. Installed a new telecommunication system with most modern facilities like PRI Connectivity, Video conferencing etc
2. Renovated clinical Lab- Modification works of clinical lab as per NABL specification completed with centralized duct able air conditioners ,upssystem etc
3. Palliative OP, Palliative emergency IP, Dietetics, Speech therapy Physiotherapy etc are in

the ground floor itself for the convenience of patients with required facilities including air conditioners

4. Modification works carried out in Microbiology for installing new equipments like PCR, Biosafety cabinet etc
5. Main pharmacy arranged in a more convenient place near OP with more storage space , walk in cooler , temperature controlled storage as per instruction of the office of drug controller , And set a new IP pharmacy in the IP block
6. Renovated the damaged/leaky toilets as per complaint from patients and public
7. Started the work of a 20m³ Bio gas plant near Nurses hostel
8. In order to improve the security system in the hospital and follow the BARC guide lines, cameras are installed in the radiation safety areas (linac area, Blood irradiator area,etc) examination hall, Attendance punching area etc
9. Minor works in OT for infection control activities – separate entry for autoclaving,entry restricted second door renovation of Air conditioners etc
10. We had installed 2 numbers of 15 KW solar plant at Nurses hostel and Doctors quarters and thereby a great saving of electricity
11. 20 Nos solar lightswere installed in the MCC Campus which was a grand step towards the energy saving activities of MCC
12. Completed the Modification works of Linac -1 building as per AERB direction
13. MCC has conducted an energy auditing in our installations with M/s Kerala State Productivity council and submitted report. We also claimed subsidy Rs 50000/- from EMC and started steps to implement energy saving activities
14. Started the Linac-2 building construction works
15. Completed the compound construction in the main road area and started the compound wall construction in the main campus
16. Provided a mortality file storage in the service area for Medical records Department
17. Set confidential room and examination hall with toilet in the first floor for Bsc MRT Courses
18. Modified canteen building.
19. Completed water sump construction with the help of Kerala Water Authority.

20. Modification works required for the satisfactory installation of Blood irradiator and digital X-ray rooms.
21. Started centralized Medical Oxygen plant.
22. Completed Gardening works.
23. Started construction works of new ETP.

CONFERENCES/SEMINAR/WORKSHOP

MCC has send three engineering staff to attend the classes of M/s L&T at Koonoor Engineering section has conducted a function at our confer-

ence hall to appreciate the staffs and our well-wishers who helped MCC to get such a prestigious award and we gave a gift to all our cleaning and laundry staff in connection with this award

AWARDS

We have received state pollution control award for the year 2014-2015 Prize money Rs.25 Thousand and the certificate of appreciation was received from the honorable minister of Electricity Shri Ariyadan Mohammad in a prestigiousceremony held at Cochin.

STAFF

Name	Designation
Sri. Sudeep K T	Engineer
Smt. Reena P C	Supervisor, Electrical
Sri. K. Chandran	Supervisor, Plumbing
Sri. T V Satheesh	Supervisor, Electrical
Sri.K. N. Sharath Kumar	Supervisor Civil
Smt. Lijikrishnan	Biomedical Technician
Sri. Sushanth	Electrician
Sri. Nyju	Electrician
Sri. Rajesh	Electrician
Sri. Sunilkumar	Electrician cum plumber
Sri. Rasheed	Plumber
Sri. Jinsithlal	Plumber

DEPARTMENT OF GENERAL ADMINISTRATION



Sri. Rajesh A K
Administrative Officer

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 will be given 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 inputs 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:

1. General Administration Division
2. Hospital Administration
3. Academic Division & Library and Information Science
4. Public Relations and Clinical Services Division
5. Accounts Division
6. Purchase/ Stores Division & Pharmacy
7. Human Resources and Establishment Division
8. Security Division

1. GENERAL ADMINISTRATION DIVISION

This Division handles the overall activities of the Centre which includes maintenance of dispatch and inward registers, Government correspondences, issue of orders, circulars, maintenance of files related to various contracts, convening of various meetings, tapal section etc:-This Division frames policies, guidelines and procedures and make sure that they are adhered to by the staff. This Division also handles activities related to the Hospital and also liaison work with Government and other Departments.

STAFF

Name	Designation
Smt.Preeethu das	PA to Director
Shri. Rejoy.K	Clerk/Cashier/Typist
Shri. Jayadeep.E.K	Clerk/Cashier/Typist
Shri. Jayanandan.A	Clerk/Cashier/Typist
Shri. Sreejith P.K	Clerk/Cashier/Typist
Shri. Dinesh Kumar. T.M	Clerk/Cashier/Typist
Smt.Bindu.T.K	Clerk/Cashier/Typist
Shri. Ganeshan.V	Clerk/Cashier/Typist
Smt.Surekha.M.C	Clerk/Cashier/Typist
Shri. Prasoonan.P.P	Clerk/Cashier/Typist
Shri. Anoop.V	Clerk/Cashier/Typist
Shri. Shajith.R.P	Attender

2. HOSPITAL ADMINISTRATION

This Division is presently handled by the Administrative Officer itself, as the Institution is yet to fill up the post of Hospital Administrator.

3. ACADEMIC DIVISION & LIBRARY AND INFORMATION SCIENCE



The Medical Library, the centre of clinical information centre for the hospital, is keeping pace with recent state of art technology and library activities and continuous to functions as information resource centre. Library is the heart of the

institution. It is the backbone of research and development activities every organizations. Our library deemed to the integral part of the progress of MCC in all its academic activities. Our Medical Library caters to the needs of Doctors, nurses, others Para medical staffs and staff and students from other hospitals or academic institutions from all over the country.

This Division is headed by the Medical Librarian and will function under the control of the Officer under whose jurisdiction the Library falls. A Library Committee is constituted to formulate policies regarding the smooth functioning of the Medical Library. The working hours of the Library will be as decided by the Library Committee and the Committee will decide the staff for each shift or may entrust this to the Librarian. All administrative work involving import of books, purchase of journals and back volumes of journals, scrutiny of the bills for payment, calling for tenders, quotations etc; are carried out, under this Division.

Major activities

- o Documentation work involving indexing of all the periodicals.
- o To procure abstracts of required topics of interest from various journals available in our Library and issue to readers on request.
- o Preparation of monthly bulletin, which covers all the books received in the particular month and listed according to subject-wise.
- o Preparation of bibliographic in anticipation and

on demand.

- o Daily statement regarding the issue of journals.
- o Entering of loose periodicals in the corresponding registers.
- o Entering books purchased in the Stock register.
- o Price verification of books and invoices.
- o Arrangement of loose periodicals, bounds periodicals and books in the Library.
- o Classification of nooks and their cataloging.
- o Registering of current periodicals.
- o Duplications checking.
- o Preparation of book order cards.
- o Arrangements of cards in separate sequences in the books ordered tray, outstanding order tray and books under process tray.
- o Processing verification of books, bill tallying etc;-
- o Reference service for both ready reference and long range reference

Facilities:

Departmental Library: Departmental Library started during the year 2012 and at present we have more than 5 Departmental Libraries. Each Department maintain two registers, i.e a Stock register and Issue register. The present Medical Library acts as focal point, which is also the Central Library of the institution.

Up-to-date: Up-To-Date is an evidence based clinical decision support system by Wolters Kluwer, USA. Up-to-date is continuously updated and is one of the most heavily used medical information resources globally. Up-to-date subscription started from 2013 onwards.

Services:

Reference Services: Our reference section has special collection in the field of oncology with special emphasis on diagnosis, treatment and prevention along with research and education. Multivolume books and books for examination purpose are treated as reference collection. Besides that, one copy of each is kept in reference. Reference section started in 2013.

24x7 Services: Our library users are busy with their clinical practices at day time and so they cannot utilize their daytime for research activities. To overcome this unavoidable situation Library should be opened for 24 hours. But it is

not easy to provide round the clock service with our present staff strength and hence required an alternative solution. To overcome the situation MCC implemented RFID with CCTV camera in the Library, by which users can access the Library using identification cards and without help of staff. RFID started from 2014 onwards

RFID (Radio Frequency Identification) is the wireless non-contact use of radiofrequency electromagnetic fields to transfer data, for the purpose of automatically identifying and tracking tag attached to objects. The tag contains electronically stored information. RFID can be used to library circulations operations, shelving, theft detection, and inventorying. Since RFID tags can be read through an item, there is no need to open book or DVD case to scan an item, and stack of books can be read simultaneously. Book tag can be read while books are in motion, which reduces staff time. This can all be done by the borrowers themselves, reducing the need for library staff assistance.

STATISTICS

- BOOKS : 2582
- JOURNALS : 075
- CLINICAL DATABASE : 01

Immediate Future Projects

- Digitalization of Medical library

A Digital Library (also referred to as digital library or digital repository) is a special library with a focused collection of digital objects that can include text, visual material, audio material, video material, stored as electronic media formats (as opposed to print, microform, or other media), along with means for organizing, storing, and retrieving the files and media contained in the library collection. Digitalization of library doesn't mean to write off the printed books but to add the unlimited scope of digital information to conventional information sources.

Main Digital Resources

- a) Database
- b) E-Journals
- a) Database

Database is an organized collection of information, of a particular subject or multi-disciplinary subject areas. The information of a database can be searched retrieved electronically. The contents include journal articles, newspaper arti-

cles, book reviews and conference proceedings etc.

b) E-journals

E-journals, also known as Electronic journals, or intellectual magazines are that can be accessed via electronic transmission. In practice, this means that they are usually published on the Web. They are a specialized form of electronic document, which provides materials for academic research and study. They are formatted approximately like journal articles in traditional printed journals. The most common database is the one which deals with medical science and allied health sciences. The most common databases in the medical fields of Kerala are Science Direct, EBSCO, MD Consult etc

STAFF

Name	Designation
Sri. Subash Chandran	Medical Librarian
Sri. Harish Babu	Assistant Librarian

4. PUBLIC RELATIONS AND CLINICAL SERVICES DIVISION



Sri. C.S Padmakumar
Administrative Officer
(Clinical Services)

This division deals with Front Office Management, Public Relations Activities, Medical Records Management and Patients Accounting and Billing.

Major activities:

- Issue of all investigatory reports
- All cash transactions of patients
- Patients and relatives guidance and counseling
- Implementation of various patient welfare services as follows:
 - o Chis Plus
 - o Karunya Benevolent Fund
 - o Sukrutham
 - o Cancer Suraksha Scheme
 - o Thalolam
 - o Comprehensive Health Care Scheme for Scheduled Tribe
 - o Snehasanthwanam for Endosulfan victims
 - o Prime Minister’s Relief Fund
 - o Society for Medical Assistance to the Poor
 - o ESI Scheme
 - o Patient Welfare fund of MCC
- Issue of various certificates to patients
- Issue of railway concession forms
- Guidance and issue of certificates for financial aid from both Government and private agencies
- Death register maintenance and periodical reporting to concerned authority
- All types of correspondence related to patients
- Treatment expenditure Re imbursement procedures for various agencies
- Guidance and assistance to various trainees coming here for training.
- Issue press releases to print and audio visual medias
- Management of patients and their relatives complaints and suggestions
- Apprenticeship training for Front Office Assistants and Computer Operators
- Maintain up to date registers, regarding, the names and contact numbers of all employees of the Centre
- Maintain up to date registers, regarding, the names and contact numbers of other major hospitals, Govt. offices etc.
- Maintain up to date registers showing the details of all calls (official and personal) made through the exchange.
- Connect incoming external phone calls to the concerned staff

Clinical Achievements -2014

Descriptions	2014
New Cases	4433
Non-Cancerous Cases	1979
Follow up cases	51506
Non-Cancerous cases(follow up cases)	4294
Total Patients	62212
In patients	3650
Day CT Injections	9059
IP CT Injections	1852
Total CT Injections	10911
Observation cases	
Major Surgeries	1155
Minor Surgeries	383
Total surgeries	1538
Scopies	855
X-ray	4640
U S G	937
Mammogram	1477
CT Scan	2402
Esophageal stenting	2
Biopsy	2807
FNAC	1005
Cytology	5255
Histopathology	4241
Haematology	36393
Biochemistry	34176
Urine analysis	1904
BMA	324
Peripheral smear	653
ECG	673
Bronchoscopy	1078

RT Patients(in fractions)	22815
Number of Patients RT	880
Brachytherapy	182
Brachytherapy (pt. bases)	110
RT Simulator	718
Volunteer Training programme (ECDC)	2
Cancer AwarenessClasses	109
Early Cancer Detection Camp	187
Exhibition	12
Work Shop	1
CME	1
Blood Donation	2716
Component Preparation	9286
Screening Test	4224
Blood Donation Camp	36
ABG	364
No.of FLUID	329
CNE	3
Linac(No.of patient RT)	524
Linac(RT patient in fractions)	28207
Tumour assay	3325
Second Opinion	1828
Culture and sensitivity	3919
Sputum -AFB	233
Environmental sample	421
MRI	1137
Gram stain	217
Fungal culture	84
SEROLOGY	6868
4D CT	568
BMT	10

Details of financial assistance schemes implemented in MCC

Schemes	No. of patients
CHIS PLUS	3051
Karunya Benevolent Fund	1749
Comprehensive Health Care Project for ST patients	97
Sukrutham	31
PMNRF	6
SNEHASANDWANAM - Endosulphan victim patients	16

Kerala Social Security Mission – Cancer Suraksha Scheme(children below 18 yrs)	24
Kerala Social Security Mission –Thalolam (children below 18 yrs)	4
ASWAS Project(cancer control programme of Kannur Jilla Panchayath)	28
ESI scheme	105

Kerala State Right to Service Act – 2012

Kerala State Right to Service Act – 2012 has implemented in MCC from 2014 May onwards. During the year 2014 – 15, 12941 applications

has been received for various services and the same has been issued to the concerned within time limit. The details of service available are shown below:

Sl.No	Name of Service	Designated Officer	Time limit	First appellate authority	Second appellate authority
1	Right to obtain Medical Certificates/Treatment Certificates for various purposes	Treating Doctor	3 days	Administrative Officer(Clinical Services)	Director
2	Right to obtain Certificates for financial assistance from various sources	Treating Doctor	3 days	Administrative Officer(Clinical Services)	Director
3	Right to obtain Certificates for re imbusement claims for investigations/treatment	Treating Doctor	7 days	Administrative Officer(Clinical Services)	Director
4	Right to obtain Train concession forms for cancer patients	Hospital Assistant	1 day	Administrative Officer(Clinical Services)	Director

MALAYALAM – OFFICIAL LANGUAGE

As part of observing ‘Shresta Bhasha Dinam and Varacharanam”, weekly celebrations were conducted in MCC during the first week of November 2014. In this regard various literary programs were conducted and the winners were awarded in a public function presided by Dr. Satheesan Balasubramanian, Director MCC. The function was inaugurated by well known writer and Sahithya Academy Award winner Sri. T.N Prakashan. Dr. Sithara Aravind, Assistant Professor in Pathology and Sri. C.S Padmakumar, PRO/Administrative Officer (CS) were also felicitated in the function.

“Loka Mathrubhasha Dinam” was also celebrated in MCC on February 21, 2015. As part of this program various literary programs were conducted. The winners were awarded in a public function presided by Dr. Sangeetha K Nayanar, Professor and HOD, CLS & TR MCC. The programme was inaugurated by well-known critic and HOD Malayalam Department, Mahe Government College Dr. S.S Srikumar. Dr. Sithara Aravind, Assistant Professor in Pathology and Sri. C.S Padmakumar,PRO/ Administrative Officer (CS) and Smt. T.K Bindu, CCT, were also felicitated in the function.

STAFF

Name	Designation
C.S Padmakumar	Administrative Officer (Clinical Services) HOD
Smt. Mahija P.M	Hospital Assistant
Smt. Shyni D. R	Hospital Assistant
Smt. Bindu V	Hospital Assistant
Smt. Reena K	Hospital Assistant
Smt. Anupama Achuthan	Hospital Assistant
Smt. Sreeja K	Hospital Assistant
Smt. Bhavana Moukthi M.B	Hospital Assistant
Smt. Deepa Chenoli	Hospital Assistant
Smt. Remya V	Hospital Assistant
Smt. Soorya M.C	Hospital Assistant
Smt. Bindu T.N	Hospital Assistant
Smt. Honey Mol	Hospital Assistant
Sri. Rajeevan U	Telephone Operator
Sri. Ratheesh	Attender

5. ACCOUNTS DIVISION

This Division plays a key role in up-keeping the financial matters of the Centre. The Finance/Accounts Division manages financial activities including all payments and receivables related to the Institution. The Finance department advises the Director on financial policy and long-range planning, establishes procedures for accounting functions, receives and deposits all cash received by the hospital, and approves the payments of salaries and other expenditures.

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 equipments.
- Handling all records pertaining to hospital finance.

- Keeping all records of assets and liabilities.

As the post of Accounts Officer is lying vacant this Division is presently handled by the Administrative Officer himself.

Grant-in aid

During the year an amount of Rs.20 crores was provided as Grant in aid, under 'Plan' and an amount of Rs.7.05 crores under Non-plan, by Government

6. PURCHASE DIVISION

Purchase

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. 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 equipments purchased during the period are as follows:

Sl.No	Item	Amount	Name of the Supplier
1	-80 degree C Deep Freezer – 1 No (Model: DW-86 L 959, Haier	Rs.14,85,000/- (Invoice no: HAE/093 dated 02/03/2015)	M/s. Haemolab Equipments, Thejus, 37/2605 D, Nilavareth Lane, Azad Road, Kaloor, Cochin – 682 017
2	Binocular Microscope DM750	Rs.2,30,000/- (Invoice No: BMS/HSS/3 dated 12/03/2015)	M/s. BIONS Medical Systems Pvt. Ltd, 28.3085D, 'Rohini', Tagore Nagar, Ponneth Temple Road, Kadavanthra, Kochi – 682 020
3	Trinocular Compound Microscope Leica DM1000 @	Rs.4,35,000/- (Invoice No: BMS/HSS/3 dated 12/03/2015)	M/s. BIONS Medical Systems Pvt. Ltd, 28.3085D, 'Rohini', Tagore Nagar, Ponneth Temple Road, Kadavanthra, Kochi – 682 020

4	Blood Collection Monitor (Model: REMI – BCM-20 ULTRA)	Rs.1,04,000/- (Invoice No: K/C/001405/14-15 dated 13/02/2015)	M/s. Kochin Inlab Equipments India Pvt. Ltd. Door # 28/2391-D, Vihaan, Chilavannur, Kadavanthra P.O., Kochi – 682 020
5	Laboratory Centrifuge for Routine Use (Model: THERMO SCIENTIFIC SORVALL ST8)	Rs.6,20,000/- (Invoice No: K/C/001464/14-15 dated 21/02/2015)	M/s. Kochin Inlab Equipments India Pvt. Ltd. Door # 28/2391-D, Vihaan, Chilavannur, Kadavanthra P.O., Kochi – 682 020
6	High Speed Table Top Centrifuge (Model: THERMO SCIENTIFIC SORVALL ST8) – 1 No	Rs. 3,26,000/- (Invoice No: K/C/001464/14-15 dated 21/02/2015)	M/s. Kochin Inlab Equipments India Pvt. Ltd. Door # 28/2391-D, Vihaan, Chilavannur, Kadavanthra P.O., Kochi – 682 020
7	Micro slide Cabinet (Model: YORCO MICROSLIDE CABINET YST-160 – Closed Pack Manner) – 1 No.	Rs. 96,248/- (Invoice No: UA-1284/2014 dated 13/01/2015)	M/s. Universal Agencies Palakkal Angadi, Thrissur – 680 001
8	Paraffin Block Cabinet (YORCO MICROSLIDE CABINET YSI-165) – 1 No.	Rs. 1,09,998/- (Invoice No: UA-1284/2014 dated 13/01/2015)	M/s. Universal Agencies Palakkal Angadi, Thrissur – 680 001
9	Spectrophotometer (Model: ND-2000c)	Rs. 7,50,000/- (Invoice No: 097dated 11/05/2015)	M/s. JH BIO Innovations Pvt. Ltd, # 3, 2nd Floor, Shivalaya Arcade, Sanjay Nagar Main Road, Sanjay Nagar, Bangalore – 560 094
10	Refrigerated Micro centrifuge (Model: Eppendorf, Germany – 5424R)	Rs. 4,45,000/- (Invoice No: HAE/076 dated 16/01/2015)	M/s. Haemolab Equipments, Thejus, 37/2605 D, Nilavareth Lane, Azad Road, Kloor, Cochin – 682 017
11	Fluid Warmer (Model: HOT-LINE, Smith Medical) – 03 Nos	Rs. 3,00,000/- (Invoice No: 1813 dated 21/03/2015)	M/s. Rins Marketing & Services City Tower, TM 364 N / 1st Floor, Opp. Chinmaya Balabhavaan, Kannur – 670 002
12	Body Warmer (Model: Equator, Smith Medical) – 1 No.	Rs. 97,000/- (Invoice No: 1813 dated 21/03/2015)	M/s. Rins Marketing & Services City Tower, TM 364 N / 1st Floor, Opp. Chinmaya Balabhavaan, Kannur – 670 002
13	Bipap Machine (Make & Model No: PHILIPS RESPIRONICS BIPAP A40) - 04 Nos.	Rs. 6,60,000/- (Invoice No: 39 dated 24/04/2015)	M/s. Anamdev Engineers, 1st Floor, “Vrindavan”, Door No. 43/1606 B, North Railway Station Road, Ernakulam, Cochin – 682 018
14	Infusion pump (Model: BPL ACURA-V) – 10 Nos.	Rs. 3,65,000/- (Invoice No: 1855 dated 31/03/2015)	M/s. Rins Marketing & Services City Tower, TM 364 N / 1st Floor, Opp. Chinmaya Balabhavaan, Kannur – 670 002
15	80 KVA UPS (NUMERIC) – 1	Rs.9,35,000/- (Invoice No: 126700768 dated 07/08/2014)	M/s. Novateur Electrical & Digital Systems Pvt. Ltd 122/1, Semmancherry Village, Old Mahabalipuram Road, Chennai – 600 119
16	ICU Cot (Hi-Low Intensive care bed) – 4 Nos	Rs.2,51,983/- (Bill No: 347 dated 27/09/2014)	M/s. Kerala Artisan’s Development Corporation Ltd. (KADCO) Cherooty Road, Kozhikode – 673 001
17	ICU Cot (Ordinary Intensive care bed) – 14 Nos	Rs.4,06,644/- (Bill No: 331 dated 05/09/2014)	M/s. Kerala Artisan’s Development Corporation Ltd. (KADCO) Cherooty Road, Kozhikode – 673 001

Medicine purchase

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 2014-15 is Rs. 14, 31, 79,938/- (Fourteen crores thirty one lakhs seventy nine thousand nine hundred and thirty eight).

8. Pharmacy Division

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.

ACTIVITIES AND ACHIEVEMENTS

- The existing Pharmacy located in the ground floor is not able to cater patient needs, due to increase in patient number. Hence arrangements were made separating Pharmacy & Main Store and starting one more Pharmacy in IP block. This arrangements had ensured sufficient Drugs in the Centre and helped better dispensing.
- To maintain the potency of drugs, a Cold storage system (Walk in cooler) was provided in the Main store.
- Modifications were carried out making Store a sun light proof area.
- Two more refrigerators were procured in the main Pharmacy to stock bulk drugs for emergency purpose.
- Separate cash counter provided in the main Pharmacy.
- HIS software of NIC installed in main Store & Pharmacy.
- Extended Pharmacy service to 24x7 hrs.
- Separate Narcotic Drugs counter 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 hrs and the IP Pharmacy functions during day time. On requirement and proper indent from the Pharmacist, drugs are purchased through the Purchase Division and supplied to the Pharmacy main Store. The main store keeps records of the stock and issue medicines to various sections like main Pharmacy, IP pharmacy, Wards, Operation theatre etc:-. This Division is headed by the Pharmacist, and supported by Assistant

Pharmacists, Pharmacy Assistants, Data entry operator and Ward Assistants. Details of purchase and sales during the year 2014-15 is as below:

Purchase	-	145753130
Purchase Return	-	900454
Sales	-	149962492
• Total purchase amount -		Rs. 14,31,79,938/-
• Total sale amount -		Rs.15,29,95,126/-

9. STORE

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. This Division ensures that bills with documents in respect of accepted items are cleared immediately to the Accounts section, with a copy to the purchase section and will watch purchase orders periodically for dates of delivery, especially when such items are critical in stock and inform purchase section.



STAFF

Name	Designation
Smt. Lasitha K V	Store Keeper
Sri. Sajeevan	Pharmacist
Smt. Nisha Gangan	Assistant Pharmacist
Sri. Sugandham S	Assistant Pharmacist
Smt. Bindhu K T	Lab/Pharmacy/Assistant
Smt. Darley Joseph	Lab/Pharmacy/Assistant
Sri. Baiju B	Nursing Assistant

10. HUMAN RESOURCES AND ESTABLISHMENT DIVISION

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:

Secretary to Government, Health Department or his nominee	Chairman
Secretary to Government, Planning & Economic Affairs Department or his nominee	Member
Secretary to Government, Finance Department or his nominee	Member
Members of Scientific Committee	Members
External subject expert(s)	Member
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:

1	Director-MCC
2	Subject expert
3	HOD of concerned Department
4	Special Officer
5	Administrative Officer
6	Administrative Officer (Clinical Services)

This Division undertakes responsibilities in facilitating the selection process and creates offer letters and employment contracts. The establishment works of this Centre are handled under this Division. All recruitment procedures for academic staff as well as non-academic staff are performed by this Division. This Division handles leave matters of staff, service matters, maintenance of service book, dealing with Government related communications, etc. During the year 2014-15, 11 employees have newly joined this Institution and 14 numbers of staff had relieved from the Institution, as detailed below:

Staff who had joined the Institution during the period

Sl. no.	Name	Designation	Joining Date
1	Dr. Akhil R Nambiar	Assistant Professor	14.07.2014
2	Dr. Syam Kumar S A	Assistant Professor	01.09.2014
3	Dr. Pramod Sankar S	Associate Professor	22.09.2014
4	Dr. Deepak Roshan V G	Lecturer Cytogenetics	09.10.2014
5	Dr. Adarsh D	Assistant Professor	05.11.2014
6	Dr. Tapes Bhattacharyya	Assistant Professor	05.01.2015
7	Dr. Mohandoss M	Assistant Professor	05.01.2015
8	Dr. Nived K	Associate Professor	04.02.2015
9	Dr. Sanudev Sadanandan	Assistant Professor	25.02.2015
10	Dr. Kiran P	Assistant Professor	25.03.2015
11	Rajeevan Karayi	Driver	31.03.2015

Staff who had left the Institution during the period

Sl.no	Name	Designation	Joining Date	Relieved date
1	Dr. Suri Salih	Associate Professor	21.10.2010	29.04.2014
2	Dhanya C	Junior Nurse	18.10.2012	11.06.2014
3	Dr. Syam Vikram	Associate Professor	07.03.2011	27.06.2014
4	Jisna M K	Junior Nurse	22.10.2012	08.07.2014
5	Renjith M	Radiographer	07.12.2009	13.08.2014
6	Dr. Kulur Rohan	Assistant Professor	07.03.2014	10.09.2014
7	Dr. Srinish G	Senior Lecturer	07.03.2014	10.09.2014
8	Linesh N	Junior Nurse	26.09.2012	10.09.2014
9	Priya Mol P	Lab Technician	11.11.2013	24.09.2014
10	Sanil A P	Blood Bank Technician	13.08.2011	25.09.2014
11	Sahna P P	Lab Technician	01.07.2010	23.10.2014
12	Dr. Sameer E P	Lecturer	15.01.2004	31.10.2014
13	Dr. Santam Chakraborty	Associate Professor	12.04.2012	29.11.2014
14	Dr. Vijay M Patil	Assistant Professor	13.08.2013	26.12.2014
15	Dr. Geo Francis	Lecturer -Molecular Oncology	14.12.2011	28.01.2015

11. SECURITY DIVISION

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 Sate Ex-Servicemen Development and Rehabilitation Corporation). They guard the Campus and Centre 24x7 and are posted in various areas of this Centre, for the smooth functioning. Vigilant security measures need to be undertaken as lot of highly sophisticated and costly state of

art equipments and some equipments are installed under Atomic Energy Regulatory Board (AERB) regulations. AERB insists tight security for these equipments and this Centre comes under the direct supervision of District Superintendent of Police. Security measures are even tightened up by installing surveillance cameras as and where required. This Division also acts as In charge of Drivers and the Hospital vehicles.



Sri. Satheesan PM
Security Officer

DEPARTMENT OF ONCOLOGY NURSING



Smt. Annet Fernandez
Nursing Superintendent

All staffs are distributed in different wards and departments to provide high quality nursing care. As a part of infection control, hand washing procedures are carried out. Periodic fumigation is done in each ward and departments. All autoclaved articles and equipments are used for patient care. All staffs are provided computer training. Most of them have got special training in specialty areas such as BMT, Surgical ICU, Medical ICU, Intensive chemotherapy unit, Pain & Palliative unit etc. CVAD care & maintenance practices are carried out with strict aseptic technique.

Trained and qualified nurses to provide high quality nursing care. Nursing staffs are getting promotions for the post. The department conducts periodic CNEs. Academic programmes, in-service education, health education to patients and relatives, In addition, it also conducted workshops, and celebrated nurse day and world cancer day..

The immediate goal of the department is to have nurse clinician- specialist nurse in emergency areas and OPD to have proper nursing diagnosis. The department in association with Department of Cancer Palliative medicine and Clinical Hematology and Medical oncology has started stoma clinic, lymphedema clinic, CVAD clinic.

It also proposes to develop as a training centre for various nursing specialities and nursing faculties for academic programmes.

ACTIVITIES & ACHIEVEMENTS

- 12 May 2014 Nurses day - Oath taken, cake cutting done, a rolling trophy given to best nursing department .It gone to MALE WARD. Organ donation form submitted to Director.
- 1st June 2014- SCIENTIA - 2014, CNE on Head and Neck Cancers- Introduction to head and neck cancers given by Director, MCC. Classes were taken regarding surgical management for head and neck cancers taken by Dr. Sajith Babu .An over view of head and neck cancer by Dr. Vinin. Chemotherapy for head and neck cancers by Dr. Manuprasad. Radiotherapy management by Dr. Joneetha. Speech and swallowing by Mr. Aneeth. Nutritional therapy by Mrs. Reena, Nursing management by Staff nurse Bijitha.
- 19th October 2014- SYOPA –CNE on Bone and Soft tissue malignancies- Introduction to the topic by Dr. Joneetha. Nursing management by staff nurse Aiswarya and Staff nurse Neethu .E.P, Surgical management by Dr. Satheesan. Medical management by Dr. Vijay Patil. Radiotherapy management by Dr. Greeshma. Reha-

bilitation nature by Mrs.Roopa, and success stories by Staff nurse Shibi.

- 11th October 2014-Work shop on communication skills- As a part of World Hospice and Palliative Care day.
- 4th February 2015-World cancer day - Arranged a programme with patients and relatives. Class-

es and health education given by nursing staff. Discussions were done .Clarifications of doubts regarding cancer and treatment given .Theme was not beyond us .Positive and practice approach to fight against cancer, choosing healthy lives. Delivering early detection, achieving treatment for all, maximizing quality of life.

STAFF

Name	Designation
Annet Fernandez	Nursing Superintend
M V Subadra	Senior Nurse
Shyni A F	Head Nurse
Liby George	Head Nurse
Sreelatha N	Junior Nurse
Sabitha	Junior Nurse
Sindhu N R	Junior Nurse
Resmi K R	Junior Nurse
Maya PK	Junior Nurse
Sheeja N	Junior Nurse
Bijitha P	Junior Nurse
Smitha Grace	Junior Nurse
Sindhu S	Junior Nurse
Shaia E	Junior Nurse
Navamy T C	Junior Nurse
Seena E	Junior Nurse
Jisha k	Junior Nurse
Kavitha C N	Junior Nurse
Saritha N	Junior Nurse
Ligy Jose	Junior Nurse
Sindhya Rani	Junior Nurse
Linesh N	Junior Nurse
Sajina N	Junior Nurse
Smithamol D	Junior Nurse
Sujatha K	Junior Nurse
Jisna MK	Junior Nurse
Sheena C	Junior Nurse
Prajina E	Junior Nurse
Sreeja Kumari	Junior Nurse
Saritha K R	Junior Nurse
Remya M	Junior Nurse
Sunitha Kumari	Junior Nurse
Asha mol M A	Junior Nurse
Anuthara R	Junior Nurse
Jemy Mathew	Junior Nurse

Shiji Paulose	Junior Nurse
Sumi P R	Junior Nurse
Bindu Raman	Junior Nurse
Shibi Mol	Junior Nurse
Shabina P	Junior Nurse
Blassy P	Junior Nurse
Athira K	Junior Nurse
Sherjin	Junior Nurse
Jaleema M L	Junior Nurse
Shijila V	Junior Nurse
Sajitha P	Junior Nurse
Sibi K Daniel	Junior Nurse
Jisha P	Junior Nurse
Asha John	Junior Nurse
Sreejisha P	Junior Nurse
Nirmala N	Junior Nurse
Shiji P	Junior Nurse
Suma Devi	Junior Nurse
Shimna S	Junior Nurse
Silja Kurian	Junior Nurse
Savitha M	Junior Nurse
Subina	Junior Nurse
Sachithra	Junior Nurse
Abhina	Junior Nurse
Lethamma P R	Nursing Assistant
Jerry A	Nursing Assistant
Kalamol G	Nursing Assistant
Deepa Prabha	Nursing Assistant
Baiju B	Nursing Assistant
Shobidha L	Nursing Assistant
Biju Prasad	Nursing Assistant
Shibu S	Nursing Assistant
Mary I C	Nursing Assistant
Mercy John	Nursing Assistant
Ajimol Dominic	Nursing Assistant
Sreejith S	Nursing Assistant

Dhanya P M	Nursing Assistant
Sajitha Kumari	Nursing Assistant
Dhaya E	Nursing Assistant
Shibila K	Nursing Assistant
Rekha M	Nursing Assistant
Midhun G	Nursing Assistant
Neethu BS	Nursing Assistant
Shamla N	Nursing Assistant
Bindu KM	Nursing Assistant

Nisha T	Nursing Assistant
Ragi Sindhya	Nursing Assistant
Rehana T	Nursing Assistant
Zeenath	Nursing Assistant
Shanthini	Nursing Assistant
Prajina E K	Nursing Assistant
Jinshi RS	Nursing Assistant
Rejitha L R	Nursing Assistant
Shreya C	Nursing Assistant

Conferences and Training Programs Attended & Papers Presented by Staff and Students :

Sl.no	Participant/Speaker	Conference/Meeting	Paper/Poster
1	Nijesh P.T.	Indira Gandhi Hospital, Shimla	Poster: Comparison of setup errors occurring with integrated bite block and without bite block in radiotherapy treatment of head and neck cancers.
2	Rajinesh Kumar.O.K	Indira Gandhi Hospital, Shimla	Poster: Comparison of setup errors while using vacloc and vacloc only in the treatment of lung cancers in linac.
3	Gibesh.K.P	Indira Gandhi Hospital, Shimla	Treatment of trigeminal tumors using VMAT
4	Farsana.P	NCISRT – 2014	Comparison of setup accuracy by immobilization type in various sites and institutional specific margin.
5	Dr. Satheesh Babu	Attended 12th annual meeting on evidence based management of cancers in India with emphasis on oncologic imaging at Tata Memorial Center, Mumbai from 27th February to March 2nd ,2014	Participant
6	Dr. Satheesh Babu	68th Annual conference of Indian Radiological and Imaging Association held at Kochi from 29th Jan to 1st Feb ,2015	Presented: Robot arm assistance in interventional radiology"
7	Dr. Satheesh Babu	68th Annual conference of Indian Radiological and Imaging Association held at Kochi	Poster: Robot arm assisted CT guided radiofrequency ablation - A versatile tool in radiologists' armamentarium
8	Dr. Chandran K Nair	attended Indian Myeloproliferative Neoplasm working group meeting as panelist in July 2014	Participant
9	Dr. Chandran K Nair	attended CME on Myeloproliferative neoplasms at MIMS, Calicut as faculty	Participant

10	Dr. Chandran K Nair	attended ISCTR meeting at CMC,Vellore	Participant
11	Dr. Chandran K Nair	attended workshop for lab technicians organized by KUHAS as faculty	Participant
12	Dr. Sajith Babu	KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram	“Initial experience on laser coredectomy for early laryngeal carcinoma”
13	Dr. Shivakumar	KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram	“Reconstruction of head and neck cancer defects- my experience”
14	Dr. Sajith Babu	KENTCON 2014, annual conference of OI, Kerala state branch held at Perinthalmanna, Malappuram	presented a video on “Submental artery island flap- a versatile option in head and neck” at KENTCON 2014
15	Dr. Sajith Babu	National FHNO conference held at Chandigarh.	poster on “Matched pair analysis of oral cancer patients with and without the use of tobacco”
16	Dr. Shivakumar	National FHNO conference held at Chandigarh.	poster on “Retrospective evaluation of geriatric patients undergoing surgery in cancer centre in rural area”
17	Dr. Sajith Babu	national FHNO conference held at Chandigarh	a poster on “Swallowing function assessment in glossectomised patients and its therapeutic intervention”
18	Dr . Shivakumar T	India-Singapore International Conference held at RCC, Thiruvananthapuram.	Poster on “Retrospective review of treatment intent in geriatric patients in tertiary cancer centre”-
19	Dr Sajith Babu	India-Singapore International Conference held at RCC, Thiruvananthapuram.	Oral presentation on “Assessment of swallowing functions in glossectomised patients and its therapeutic intervention”
20	Dr Sajith Babu	India-Singapore International Conference held at RCC, Thiruvananthapuram.	Poster on “Laser coredectomy for early glottic lesions: initial experience and voice analysis”
21	Dr Hamsanandini	India-Singapore International Conference held at RCC, Thiruvananthapuram.	Retrospective audit of free flaps in Head and neck cancer patients
22	Dr Nagendra K	India-Singapore International Conference held at RCC, Thiruvananthapuram.	Clinico pathological correlation of tumour factors and pathological factors in Oral cancers
23	Mr. Aneeth	Attended a one day seminar on management of voice disorders and laryngectomy conducted. marthoma college of speech and hearing on 19 April 2015	Participant

24	Mr. Aneeth	Attended a seminar on voice disorders and its management conducted by BMH hospital Calicut on 15 & 16 May 2015	Participant
25	Dr. Sangeetha, Dr. Sithara, Dr. Kavitha	IAPM State Chapter 74th meeting, Calicut Medical College-Feb 2015	Participant
26	Dr. Bithun Balan	74th IAPM, Calicut	Oral presentation in Slide Seminar on Uropathology-, PG. Trainee- Case of Renal Ewing/ Synovial Sarcoma-the need for cytogenetics
27	Dr. Shamlam	74th IAPM, Calicut	Poster presentation Spindle cell carcinoma
28	Dr. Akhil Nambiar	International CME at Goa, February 2015	Amelanotic Melanoma in Vagina
29	Dr. Akhil Nambiar	Uro-oncology CME at TMH, Mumbai	Participant
30	Dr. Aswathy	International Gynaec-Oncology Meet, Chennai, March, 2015	Clear cell adenocarcinoma arising in an endometrial polyp
31	Dr. Binu K A	Orientation programme on clinical laboratory management for medical Laboratory Professionals on 22-03-2015. at School of Health Sciences, Kannur University,	presented a topic "Pre Analytical Variables in Point Of Care Testing"
32	Dr. BINU K A	attended GCLP ISO 15189:2012 Workshop on INTERNATIONAL STANDARDS held on 12th – 14th, March 2015 at Tisel Bio-Park, Taramani, Chennai	Participant
33	Dr. Sajani Samuel	National level Seminar on Microbes in Human Perspectives in this Millennium, 7th Jan 2015 Tiruvannamalai	Participant
34	Dr. Sajani Samuel	5th and 6th December 2014/ Chennai	paper in Global Trends and Challenges in Biosciences
35	Dr. Sajani Samuel	participated in A- Z About detection of Bacterial Pathogens 3rd Dec 2014/ Chennai	Participant
36	Dr. Sajani Samuel	International conference on Herbal Medicine and Neuroendocrinology, 13th Oct 2014/ Chidambaram	delivered a lecture
37	Dr. Sajani Samuel	5th and 6th Dec 2014/ Chennai	delivered a talk in Global Trends and Challenges in Biosciences
38	Dr. Sajani Samuel	Attended a workshop on Advanced course in PCR technique 27/10/14-31/10/2014 / Manipal.	Participant
39	Dr. Mohandoss	ISBTI, State Chapter, Ernakulam on 01.03.15	Prevention of Transfusion Transmitted Infections

40	Dr. Mohandoss	Orientation Programme on Clinical Laboratory Management for Medical Laboratory Professionals on 21.3.15	Blood Component Therapy
41	Dr. Mohandoss	DH, Kanhangad on 26.3.15	Rational use of blood components and Management of Transfusion Reactions
42	Mr. Sabeesh and Mr. Shibin	ACTREC, TMH Mumbai from 01.03.15 to 16.3.15	attended training in stem cell collection and processing
43	Dr. Atanu Bhattacharjee	Florence, Italy	presented Research paper
44	Mr. Subhradev Sen	Tirupati, India	presented Research paper
45	Mrs .Sindhu .N.R	two day Annual conference of enterostomal therapist conducted by Association of Enterostomal Therapist at Regional Cancer Center ,Thiruvananthapuram	Participant
46	Dr. Pramod Shankar	Pune head and neck cancer meeting.7-8 march 2015	Poster: Interim Facial Prosthesis- A Report of Three Cases
47	Dr. Pramod Shankar	Indo-Swedish educational summit at AIC, Kannur 9-11 Jan 2015	Participant
48	Dr. M.S.Biji	IAPC at Yenepoya Medical college	Essentials in Palliative care
49	Dr. M.S.Biji	Jeevakarunya Nidhi” conducted by Kavumbhagam Vayanasala.	Palliative care &Health
50	Mrs Sindhu.N.R	Training programme conducted by Taluk hospital Peravoor, for staff nurses & community health nurses as faculty	Participant

PUBLICATIONS

Scientific Papers	
Sl. No	Publications
1	S.A Syam kumar, Anu George A Study on the Response of 2D Array Detector for VMAT Delivery for a period of Two Years. Accepted for the general poster discussion session at the 56th Annual AAPM Meeting, July 20 - 24, 2014, Austin, Texas, USA. (Med. Phys. Volume 41, 375 (2014)
2	Dessai SB, Chakraborty S, Babu STV, Nayanar S, Bhattacharya A, Balasubramanyam S, Patil VM. Tolerance of Paclitaxel and Carboplatin as NACT in advanced ovarian cancer patients who are unlikely to tolerate 3 weekly Paclitaxel and Carboplatin. Accepted in IJC, 2014
3	Dessai SB, Chakraborty S, Sajeev Kumar PB, Babu S, Muttath G, Nair C, Thiagarajan S, Sughosh B, Bhattacharjee A, Patil VM. Psychooncology Pilot study of single-day distress screening with the NCCN distress thermometer to evaluate the feasibility of routine distress screening in tertiary cancer center in rural India. 2014 Dec 22. doi: 10.1002/pon.3739
4	Bleomycin lung toxicity in Hodgkin's Lymphoma patients – A Retrospective Study at a tertiary cancer centre in North Kerala: submitted for publication
5	Development and validation of a questionnaire to measure preferences and expectations of patients undergoing palliative chemotherapy: EXPECT questionnaire. Accepted in IJC
6	Retrospective audit of clinico- pathologic features and treatment outcomes in a cohort of elderly Non-Hodgkin's Lymphoma patients in a tertiary cancer centre., Accepted for publication in Indian Journal of Cancer in August 2014
7	Modified Visor Flap Technique for Approach to Advanced Head and Neck Cancer. Annual Journal of Otolaryngology and Head and Neck Surgery, 2014, vol 22. ISSN 2321-8428.
8	Sampada Dessai, Satheesan Balasubramanian, Vijay Patil, Santam Chakraborty, Atanu Bhattacharjee, and Syam Vikram, Pelvic Exenteration (PE): Experience from a rural cancer center in developing world. International Journal of Surgical Oncology.
9	Kavitha K P, Aswathy Krishnan, Sangeetha K Granulocytic Sarcoma masquerading as Large cell Lymphoma - Journal of Case reports.
10	Dr.Divya KP, Dr.Sangeetha K, Dr.Syam V, Dr.Surij S, Dr. Satheesan Balasubramaniam. Metastatic carcinoid in mesenteric lymph nodes from occult primary in the midgut: A report of two cases Indian journal of Pathology-Research & Practice.
11	Santam Chakraborty, M Geetha, K M Sujith, M S Biji, B Sateeshan Palliative low dose fortnightly methotrexate in oral cancers: Experience at a rural cancer centre from India. South Asian journal of cancer 3(3):166-70.
12	Dessai SB, Santam Chakraborty, Sajeev Kumar PB, Sajith Babu, Geetha Muttath, Chandran Nair, Shivakumar Thiagarajan, Biji Sughosh, Atanu Bhattacharjee, Patil VM Pilot study of single-day distress screening with the NCCN distress thermometer to evaluate the feasibility of routine distress screening in tertiary cancer center in rural India. Psycho-Oncology 12/2014; • 4.04 Impact Factor
13	Biji M Sankaran, Santam Chakraborty, Vijay M Patil, Sindhu N Raghavan, Shibimol Thomas, Subradev Sen Burden and outcome of pressure ulcers in cancer patients receiving the Kerala model of home based palliative care in India: Results from a prospective observational study, Indian Journal of Palliative care , volume 21/Issue 2/May-August 2015 (pg 152-157)
Other Publications	
1.	Hospital Based Cancer Registry Report 2013
2.	News Letter ' NETHI ' by anti-tobacco cell of MCC (3 volume/year)
3.	Hand book on tobacco for school students and public
4.	News Letter ' Abhayam '
5.	"Sthanarbudham", State Institute of Languages, Kerala, June 2014, ISBN 978-81-7638-707-1.

RESEARCH PROJECTS:

Sl.no	Investigators		Status
1	Syam Kumar, Bijina, Suja.C.A, Resmi.K.Bharathan	Radiation beam data measurement for a dual energy linear accelerator	Completed
2	Resmi.K.Bharathan, Suja.C.A , Syam Kumar, Neethu	Output measurement of Medical Linear Accelerator and Co-60 photon energies using TRS-398 protocol.	Completed
3	Suja C.A, Resmi.K.Bharathan, Syam Kumar, Hajila	Determination of virtual SSDs and output measurement for various electron beams from a Medical Linear Accelerator.	Completed
4	Suja.C.A, Resmi.K.Bharathan, Syam Kumar, Abhina	Quality Assurance of High Dose Rate (HDR) Brachytherapy.	Completed
5	Resmi.K.Bharathan,Suja.C.A, Syam Kumar, Abhina	Depth dose measurements for a dual energy linear accelerator	Completed
6	Syam Kumar, Anju, Suja.C.A, Resmi.K.Bharathan	Quality assurance of medical linear accelerator	Completed
7	Dr. Satheesh Babu	Retrospective audit of 3D mammogram detected clinically non palpable BIRADS 3,4 and 5 breast lesion	Ongoing
8	Dr. Satheesh Babu	Developing a tool which can be used by any non-medical person to detect deep vein thrombosis in community settings and ICU by collaborating with HTIC, IIT ,Madras	Ongoing
9	Dr. Satheesh Babu	To predict the parameters affecting the accuracy of CT compatible robotic system	Completed
10	Dr. Satheesh Babu	Baseline ADC value in patients with oral cancers undergoing pretreatment MRI evaluation – Data from a tertiary Cancer Center	Completed
11	Dr. Satheesh Babu	Assessment of aspiration in head and neck cancer patients using video fluoroscopy.	Completed
12	Aneeth	Effect of Glossectomy on speech and swallowing function a pre -post comparative study	Ongoing
13	Dr. Sithara Aravind, Dr. Neethu, Dr. Satheesan Balasubramanain	Comparison of conventional & Liquid based cytology in Cervical smears-a multicentric trial-PGI,Chaadigarh & MCC,Thalassery	Ongoing
14	Dr. Sajini Samuel	Acinetobacter infections in cancer patients: A worrisome clinic-microbiological profile	Ongoing
15	Ratheesan K, Bindu T, Dr. Saina Sunilkumar	A Retrospective Study of identifying the risk factors for stomach cancer.	Completed

16	Bindu T, Ratheesan K, Dr. Saina Sunilkumar	Patient and disease related factors associated with Survival, lost-to follow up/Drop outs of cervical cancer patients – A retrospective study”.	Completed
17	Dr. Satheesan Balasubramanian, Dr. Saina Sunilkumar, Bindu T, Ratheesan K	Hospital Based Cancer Registry	Ongoing
18	Dr. Satheesan Balasubramanian, Dr. Saina Sunilkumar, Bindu T, Ratheesan K	Patterns of Care and Survival Studies	Ongoing
19	Dr. Satheesan Balasubramanian, Dr. Saina Sunilkumar, Bindu T, Ratheesan K	Lifestyle & Cancer	Ongoing
20	Dr. Satheesan Balasubramanian, Dr. Saina Sunilkumar, Bindu T, Ratheesan K	Malabar Population Based Cancer Registry	Ongoing
21	Subhradev Sen	Life Distributions, their applications and inferences in Survival Analysis	Ongoing
22	Ranjith MK, Ratheesan K, Dr.SainaSunilkumar.	A Cross sectional study to evaluate the Computer Literacy among the Medical Staff at Malabar Cancer Centre, Thalassery	Ongoing
23	Ranjith MK,Dr. Saina Sunilkumar, Bindu T, Ratheesan K	To assess the Level and Extent of Usage of Health Information Technology in various Hospitals in the Malabar Region of Kerala State and to identify the challenges faced during the implementation-	Ongoing
24	Dr. Neethu, Dr. Phinse, Dr. Satheesan Balasubramanian	Arogya saksharatha project Parakkettu (2014-2017)	Ongoing
25	Dr. Neethu, Dr. Phinse, Dr. Satheesan Balasubramanian	SANSAD ADARSH GRAM YOJANA (SAGY)	Ongoing
26	Dr. Neethu, Dr. Phinse, Dr. Satheesan Balasubramanian	Cancer detection camps for high risk groups (HIV positive patients) at Kannur, Kozhikode and Kasargode districts.	Ongoing
27	Dr. Neethu, Dr. Phinse, Dr. Satheesan Balasubramanian	KAITHANGU cancer control project Thalipar-amba municipality	Ongoing

CONFERENCE/ SEMINAR CONDUCTED/DAYS OBSERVED

Sl.no	Conference/Seminar	Department/Division
1	a seminar on Advanced Radiotherapy Concepts (ARC-2015)	Radiation Department
2	NUTRIPEN Conference on enteral and parenteral nutrition was conducted on 15th Nov 2014	division of Onco nutrition and Dietetics
3	STERILIS– Conference on sterilisation techniques was conducted on 6th Dec 2014.	Surgical Oncology Department
4	ONCOHABITARE- A conference on rehabilitation of patients after cancer treatment was done on 18th Jan 2015.	Surgical Oncology Department
5	observed “World Quality Day 2014” on 13/11/2014 followed by a day workshop on Statistical Software (R) Training	Clinical Research & Biostatistics Division
6	1st June 2014- SCIENTIA - 2014, CNE on Head and Neck Cancers	Oncology Nursing Department
7	19th October 2014- SYOPA CNE on Bone and Soft tissue malignancies	Oncology Nursing Department
8	World Hospice and Palliative Care day.	Department of Community Oncology
9	World cancer day - Arranged a programme with patients and relatives. Classes and health education given by nursing staff	Department of Community Oncology
10	World No tobacco day on May 31st	Department of Community Oncology
11	Observation of loka lahari virudha dinam 26/6/14	Department of Community Oncology
12	National cancer awareness day(7/11/14	Department of Community Oncology
13	World Cancer Day- Feb 4	Department of Community Oncology
14	THIRICHARIVU	Department of Community Oncology
15	Training for survey volunteers of “KAITHANGU” , cancer control project of Thaliparamba municipality.	Department of Community Oncology
16	Training for survey volunteers of cancer control project of Thalassery municipality.	Department of Community Oncology
17	A training session on life style changes and diet was conducted for the selected representatives of kudumbashree.	Department of Community Oncology
18	VIA training for nursing assistants as part of HTIC cervical cancer screening project.	Department of Community Oncology
19	Pink Ribbon Day	Department of Cancer Registry & Epidemiology

ACCOUNTS 2014-2015

**M/s. VARMA & VARMA
Chartered Accountants
Temple Road,
Talap, Kannur – 2**

INDEPENDENT AUDITORS' 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 31st March 2015, 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 estimates 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)(8) 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 gives 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 31st March, 2015, 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)(3)(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)(3)(b) regarding Grant-in-Aid received under Plan Fund in respect of certain projects which are pending commencement/completion.
- c) We also draw attention to Note No 20(B)(5) regarding legal suits filed by some of land owners for enhanced compensation in respect of land acquired and handed over by the Government to the society.

Our opinion is not qualified in respect of these matters

Place : Kannur
Date : 21-07-2016

For **VARMA & VARMA**
(FRN: 004532S)

(PRASANTH. D. PAI)
PARTNER
CHARTERED ACCOUNTANTS
MEMBERSHIP NO. 217750

MALABAR CANCER CENTRE SOCIETY, THALASSERY INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2015

PREVIOUS YEAR	EXPENDITURE	SCH.No	CURRENT YEAR	PREVIOUS YEAR	INCOME	SCH.No	CURRENT YEAR
94,315,568	To Pharmacy Consumption	11	135,472,998	70,550,063	By Grant in aid - Revenue grant		79,786,575
95,411,115	„ Salary, stipend, wages and allowances	11	118,588,998	70,588,127	„ Revenue from Hospital Operations		123,853,446
2,172,012	„ Employer's contribution to provident fund		4,807,304	106,176,925	„ Pharmacy collection		149,973,032
1,358,104	„ Recruitment expenses		639,254	57,728	„ Penal Liquidation Charges Received		160,500
28,332,110	„ Consumables/Other Treatment Expenses	13	36,122,219	556,304	„ Rental Income		712,243
10,687,313	„ Energy Charges	14	12,636,418	1,648,000	„ Income from Training & Teaching		2,836,900
856,110	„ Printing and stationery		792,030	2,483,592	„ Donations & Contributions		2,484,886
575,692	„ Postage and telephone expenses		602,778	1,060,000	„ Income from Earlier Cancer Detection		
89,971	„ Rates and taxes		99,984	13,940	„ Camp		522,225
548,822	„ Travelling and conveyance expenses		912,089	971,448	„ Income from ambulance service		25,360
837,055	„ Vehicle running and maintenance expenses		899,322	7,810,632	„ Insurance claim received		171,248
3,206,277	„ Repairs and maintenance		2,498,282		„ Interest income		14,522,492
3,825,822	„ Security service charges		5,244,417	1,839,449	„ Other incomes		1,932,640
4,304,939	„ Cleaning & Laundering charges		5,340,420		„ Excess of expenditure over income		
5,822	„ Subscription		329,976	56,019,065	„ transferred to balance sheet		40,653,565
2,494,033	„ Free food expenses		2,062,119				
131,672	„ Auditors' fee		142,500				
261,417	„ Professional charges		266,134				
676,949	„ Insurance charges		711,544				
264,800	„ Advertisement charges		594,245				
962,872	„ Annual maintenance contract charges		5,088,186				
237,170	„ Community Oncology expenses		204,854				
60,000	„ Affiliation & Registration Fee paid		46,000				
393,784	„ Miscellaneous expenses		272,416				
	„ Provision for Doubtful Advances		551,895				
67,765,844	„ Depreciation written off	6	82,708,730				
319,775,273			417,635,112	319,775,273			417,635,112

Place: Thalassery
Date: 21.07.2016

Vide our separate report of even date attached
For VARMA & VARMA
(FRN: 004532S)

(PRASANTH. D. PAI)
PARTNER
CHARTERED ACCOUNTANTS
MEMBERSHIP NO: 217750

MALABAR CANCER CENTRE SOCIETY, THALASSERY BALANCE SHEET FOR THE YEAR ENDED 31-03-2015

PREVIOUS YEAR	CAPITAL & LIABILITIES	SCH.No	CURRENT YEAR	PREVIOUS YEAR	ASSETS	SCH.No	CURRENT YEAR
485,993,295	CAPITAL FUND	1	531,998,876	494,479,903	FIXED ASSETS	6	512,080,281
439,641,230	GRANT-IN-AID - CAPITAL GRANT	2	469,742,806		WORK IN PROGRESS UNDER		
148,092,466	ADVANCES & DEPOSITS	3	242,985,127	60,340,184	PLAN FUND	6	60,851,741
46,310,643	TRADE CREDITORS	4	77,880,963	4,222,778	DEPOSITS AND ADVANCES	7	8,885,999
782,762	PATIENTS' WELFARE FUND		591,473	66,440,930	TRADE DEBTORS	8	84,148,837
1,426,609	SEMINAR EXPENSE FUND		1,307,208	45,056,608	CLOSING STOCK	9	53,064,350
1,957,611	OUTSTANDING LIABILITIES	5	1,741,372	453,664,213	CASH AND BANK BALANCES	10	607,216,617
					SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS	20	
1,124,204,616			1,326,247,825	1,124,204,616			1,326,247,825

Place: Thalassery
Date: 21.07.2016

Vide our separate report of even date attached
For VARMA & VARMA
(FRN: 004532S)

(PRASANTH. D. PAI)
PARTNER
CHARTERED ACCOUNTANTS
MEMBERSHIP NO: 217750

NOTE NO: 6 - FIXED ASSETS
Details of Fixed Assets Addition & Depreciation for the year

Sl. No	PARTICULARS	GROSS BLOCK ADDITION/DELETION			DEPRECIATION			NET BLOCK	
		As on 01.04.2014	For the year	As on 31.03.2015	Upto 31.03.2014	For the year	Upto 31.03.2015	As on 31.03.2015	As on 31.03.2014
1	LAND	14,567,000		14,567,000				14,567,000	14,567,000
2	BUILDINGS	241,475,729	10,091,184	251,566,913	92,351,050	16,147,569	108,498,619	143,068,294	149,124,679
3	ELECTRICAL EQUIPMENTS	19,386,669	4,347,381	23,734,050	7,632,720	1,996,361	9,629,081	14,104,969	11,753,949
4	FURNITURE & ELECTRICAL FITTINGS	28,303,567	6,395,546	34,699,113	13,808,449	1,871,301	15,679,750	19,019,363	14,495,118
5	MEDICAL EQUIPMENTS	395,378,899	72,537,812	467,916,711	123,013,812	51,133,540	174,147,352	293,769,359	272,365,087
6	OFFICE EQUIPMENTS	4,160,433	1,210,834	5,371,267	1,217,639	499,019	1,716,658	3,654,609	2,942,794
7	LIBRARY BOOKS	19,765,227	190,798	19,956,025	4,764,730	2,252,834	7,017,564	12,938,461	15,000,497
8	LIFE SAVING EQUIPMENTS	51,620,904	560,000	52,180,904	39,806,484	4,837,768	44,644,252	7,536,652	11,814,420
9	COMPUTERS & SOFTWARE	5,315,234	4,139,968	9,455,202	3,318,069	3,234,723	6,552,792	2,902,410	1,997,165
10	RENEWAL ENERGY DEVICES	351,077	835,386	1,186,463	344,268	673,757	1,018,025	168,438	6,809
11	VEHICLES	790,000	200	790,200	377,615	61,858	439,473	350,727	412,385
12	BACTERIAL FILTER	17,850		17,850	17,850		17,850		
		781,132,589	100,309,109	881,441,698	286,652,686	82,708,730	369,361,416	512,080,282	494,479,903

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 31st MARCH 2015.

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 recognised in the period in which the results are known/ materialised.

(3) GRANT IN-AID:

a) Revenue Grant

Grant in aid received from Govt. of Kerala under non plan fund and financial assistance from Kerala Blood Transfusion Council 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 31.03.2015 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. Opening balance as on 01-04-2014 have been taken from the audited financial statements as on 31-03-2014 audited by another Chartered Accountant.
2. The Society is in possession of building and hospital equipments gifted by SNC Lavlin Inc. Canada (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. However, on the basis of recommendation by the Comptroller and Auditor General of India (CAG) in a prior year, the Society valued its fixed assets as on 31-03-2001 at Rs.10,85,37,233/-. The said value was brought in the books on 01-04-2005 and accounted as Fixed assets, corresponding credit to the Capital fund.
3. Grant in Aid
 - a) Balance in grant in aid under Plan Fund shown under the head 'Grant-in-Aid(Plan)' includes Rs 113.27 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 sur-

plus 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 certain projects which are pending commencement/completion. Necessary steps are being taken to commence the pending projects.
4. 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 31-03-2015.
5. i) The Society is in possession of land acquired and handed over by the State Govt. for setting up the Cancer Centre. It is learned that some of the land owners have filed suits for enhanced compensation on land acquisition and the Sub Court, Thalassery has ordered enhancement of compensation in few cases. The Hon'ble Sub Judge of Thalassery, in respect of these cases, has directed The Special Tahsildar, Land Acquisition, Thalassery to attach some of the moveable properties of the Society due to not releasing the enhanced compensation. The Society has already filed a letter before The District Collector to release the amount of Rs.11.62 Lakhs towards the release of above said enhanced compensation. As the land was acquired by the State Government and the suits for enhanced compensations are filed against the State Government, in the opinion of the Society, no provision is required to be made in the books.

ii) Contingent Liability

Claim for enhanced compensation towards the land allotted by Government of Kerala (Refer Note 4(i) above Rs 11.62 Lakhs (Rs Nil)

6. Advances received under Patient Welfare Schemes represent amount received from Karunya Benevolent Fund, Sukrutham 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 pending re-

ceivable under these welfare schemes shown in Note 8 include certain old outstanding balances. In the opinion of the Society, the said old outstanding amounts are fully receivable and hence no provision is required to be made in the books.

7. 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.
8. 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.
9. 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.
10. Previous year's figures have been regrouped / reclassified wherever necessary in order to suit current year's disclosure.

Place: Thalassery
Date : 21-07-2016

For VARMA & VARMA
(FRN: 004532S)

(PRASANTH. D. PAI)
PARTNER
CHARTERED ACCOUNTANTS
MEMBERSHIP NO. 217750

MEDIA SCAN



PHOTO GALLERY



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	IBKLO001154

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:

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