



# **MALABAR CANCER CENTRE**

(Post Graduate Institute of Oncology Sciences & Research), Thalassery  
(An autonomous Institution under Government of Kerala)

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# **Nurturing Hope Transforming Lives**

**25 Years of Compassionate Care**

**Malabar Cancer Centre (Post Graduate Institute of Oncology Sciences & Research)[MCC(PGIOSR)], Thalassery** is an autonomous institution under Health and Family Welfare Department, Government of Kerala, started with an aim to establish a world class comprehensive Cancer Centre. At Malabar Cancer Centre (Post Graduate Institute of Oncology Sciences & Research) [MCC(PGIOSR)], we stand as a beacon of compassion and healing in the fight against cancer, especially for the underprivileged and deserving members of the society. With a commitment to excellence, we strive to alleviate the burden of cancer by fostering hope, providing financial assistance, promoting wellness and ultimately, contributing to a world where every individual can face their journey with strength and resilience. Together, we are not just treating cancer; we are transforming lives and inspiring a community of care and compassion. With over 16 multi-disciplinary departments offering comprehensive care, collaborating seamlessly ensuring the best in cancer care

## Vision

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

- ◆ Apex cancer centre under the Govt. of Kerala
- ◆ More than 8000 new registrations per year and over 1.1 lakh follow up patients
- ◆ State-of-the-art facilities for the diagnosis and treatment of cancer with an inpatient facility of more than 350 beds.
- ◆ Comprehensive Cancer Centre
- ◆ Innovation and Incubation Centre
- ◆ 40 bone marrow transplantation per year including pediatric transplantation ( auto, allo, and haplo)
- ◆ Personalised Precision Oncology
- ◆ Robotic Surgery
- ◆ Plaque Brachytherapy for eye cancers
- ◆ Peritoneal surface malignant treatment HIPEC
- ◆ More than 2500 surgeries per year
- ◆ Total body irradiation for Bone marrow transplantation.
- ◆ High end Dual Energy Linear Accelerator with VMAT
- ◆ Blood Bank with all modern accessories and facilities

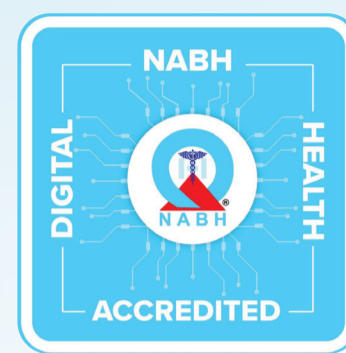
## Mission

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

- ◆ More than 300 students in various courses
- ◆ Research collaborations with various research institutions
- ◆ Clinical Trial Network
- ◆ Cancer Genetic Clinic and Lab
- ◆ Biobank
- ◆ Hospital and Population Based Cancer Registries
- ◆ Mentorship for startups in medical devices and medical products
- ◆ NABH Accredited Hospital and all labs are NABL accredited
- ◆ DSIR-SIRO certification
- ◆ NABH Digital Health Standards Silver level accredited
- ◆ Digital Pathology
- ◆ Blood Irradiator
- ◆ F-18 PSMA scan
- ◆ CAR-T Cell Therapy procedure



# Our Accreditations



## About MCC(PGIOSR)

Malabar Cancer Centre (Post Graduate Institute of Oncology Sciences & Research)[MCC(PGIOSR)], Thalassery is an autonomous institution under Health and Family Welfare Department, Government of Kerala, started with an aim to establish a comprehensive cancer centre, providing the much-required oncology care to the population of Northern region of Kerala and neighboring parts of Karnataka and Tamil Nadu states. The main objective of the centre is not only to provide comprehensive cancer care but also to develop as a Research and Training Centre of international standards. A society named Malabar Cancer Centre Society was registered under Societies Registration Act XXI of 1860 with the above aims and clinical work in Malabar Cancer Centre started from March 2001 onwards. At present Malabar Cancer Centre has more than 350 bed strength. The control and management of the Society are vested in the Governing Body consisting of 24 members with the Honorable Chief Minister of Kerala as the Chairman. The routine activities and functions of the Centre are supervised by the Executive Committee, with the Secretary, Department of Health and Family Welfare, Government of Kerala being the Chairperson of the Committee. The members in the Governing Body and Executive Committee are functioning by virtue of their official positions. Malabar Cancer Centre is providing a full spectrum of oncological care as an autonomous not-for-profit institution funded by the State Government and other sources. In 2022, the Government upgraded the centre as Malabar Cancer Centre (Post Graduate Institute of Oncology Sciences & Research).

# Infrastructure and Facilities

## Diagnostic Facilities

- ◆ State of art NABL accredited Clinical Laboratory
- ◆ Multi slice CT scanner
- ◆ 800 MA Digital X-ray machine
- ◆ 3Tesla MRI Scanner
- ◆ Ultra Sound Scanner, Digital Portable X-ray machine,
- ◆ Mammography machine with 3D tomosynthesis and stereotactic biopsy facility
- ◆ Dexa scan
- ◆ Interventional Radiology facility
- ◆ Facility for Robotic biopsy
- ◆ Microwave and Radio frequency ablation
- ◆ Molecular and Genetic Testing facilities
- ◆ Pulmonary function tests including Spirometry and Diffusion
- ◆ Capacity of Lungs for Carbon monoxide (DLCO)
- ◆ Bronchoscopy
- ◆ Convex Probe and Radial Probe Endobronchial Ultrasound
- ◆ Flexi-rigid medical thoracoscopy
- ◆ Ultrasound guided percutaneous thoracic procedures
- ◆ Digital pathology system
- ◆ Immunohistochemistry (IHC) including predictive and prognostic markers
- ◆ Cytopathology section
- ◆ Hematology services
- ◆ Fully Automated Bacterial Identification (MALDI-TOF)
- ◆ Automated Antibiotic Sensitivity Testing (VITEK System)
- ◆ Automated Blood Culture System (BACT/ALERT)
- ◆ Enzyme-Linked Immunosorbent Assay (ELISA)
- ◆ Real-Time Polymerase Chain Reaction (RT-PCR)
- ◆ Cartridge-Based Nucleic Acid Amplification Test (CBNAAT)

## Clinical Facilities

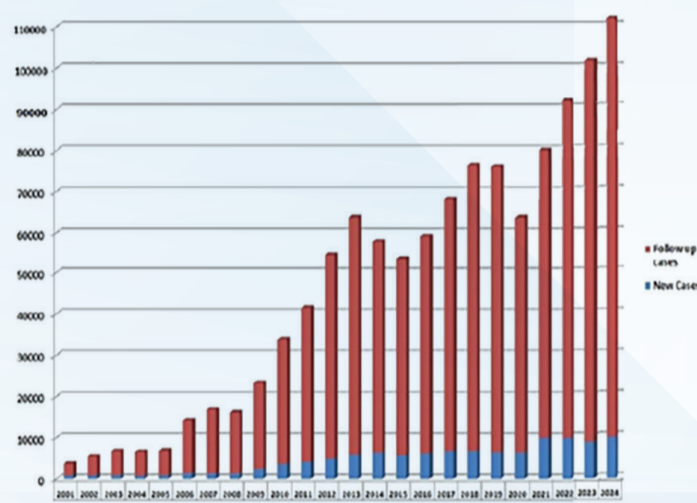
- ◆ Departments/Divisions of Radiation Oncology, Medical Oncology, Clinical Hematology, Surgical Oncology, Palliative medicine, Critical care and pulmonology, Dentistry and Rehabilitation, Psycho-oncology, Anaesthesiology
- ◆ State of the art Bone marrow transplantation unit.
- ◆ CAR-T cell therapy procedures.
- ◆ Robotic Surgical Systems
- ◆ Plaque Brachytherapy for eye cancers to preserve eye sight
- ◆ Total Body Irradiation
- ◆ Intra-arterial chemotherapy for ocular cancers
- ◆ Radiotherapy facility including high end Linear Accelerator machine.
- ◆ Four well equipped theatres to perform all major surgical procedures and 15 bedded ICU.
- ◆ State of art Dental clinic with Maxillofacial Prosthesis, Implant prosthesis and Low level Laser therapy.
- ◆ Physiotherapy services including Transcutaneous Electrical nerve stimulation (TENS) and Continuous passive Mobilisation Unit
- ◆ Speech and swallow Unit with Fiberoptic endoscopic evaluation of swallowing (FEES).
- ◆ Endoscopy services with flexible nasopharyngolaryngoscopy, Oesophagogasitric, Colonoscopic and Bronchoscopic examinations.
- ◆ ICG integrated laparoscopy, 3D laparoscopic surgery and Pediatric laparoscopy facilities
- ◆ Sleep Clinic
- ◆ Fertility preservation in endometrial cancer
- ◆ Therapeutic Plasma Exchange
- ◆ Nuclear Medicine department
- ◆ Ocular oncology and Neuro Surgery
- ◆ Cancer Palliative Medicine Clinic with Lymphoedema clinic and Stoma clinic
- ◆ Full-fledged Blood Bank with all modern accessories and facilities for component separation.
- ◆ Tobacco cessation clinic
- ◆ 24 hours Pharmacy dispensing all the medicines for cancer patients in discounted rate.

## Supportive Facilities

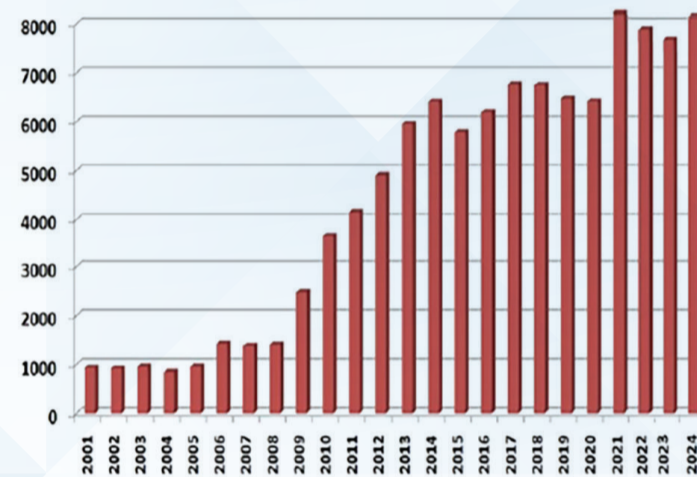
- ◆ 26 acres of elevated greenery land
- ◆ 11KV dedicated line, which can drop power up to 2.5MW
- ◆ Transformer capacity of 1600KVA and DG of 250 KVA and 500KVA
- ◆ Effluent Treatment Plant with 400 KLD
- ◆ Canteen for Patients, staff and bystanders
- ◆ Dormitory for bystanders
- ◆ Free Transportation facilities to Thalassery
- ◆ Free food scheme for in patients
- ◆ Home care services
- ◆ Community outreach activities for cancer prevention
- ◆ NGO based Associate centres for community based early cancer detection
- ◆ Patient navigation volunteers through Kannur District Cancer control consortium

- ◆ High-quality Health information technology infrastructure and automation for patient support
- ◆ OPPAM, an innovative social media-driven initiative aimed at facilitating patient care and grievance management.
- ◆ Patient Support Groups-Navajeevan, Amrutham, Mukulam, Sangeevani, Spandanam, Thejas.
- ◆ General Library for patients and bystanders.
- ◆ Buggy Service for In-Campus Transportation

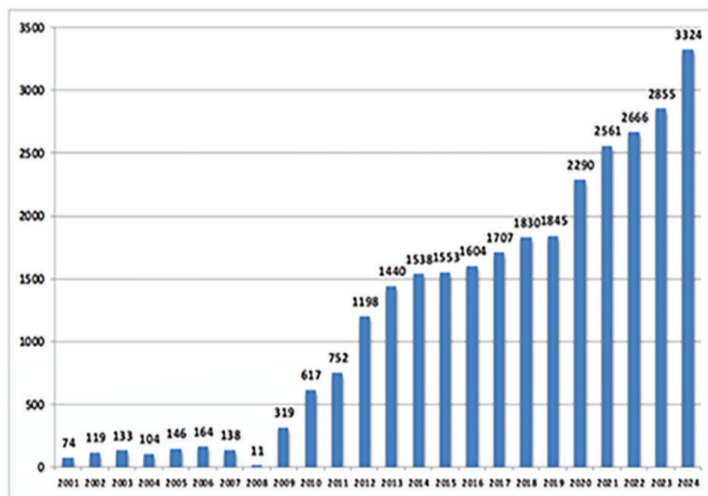
**Patient Load**



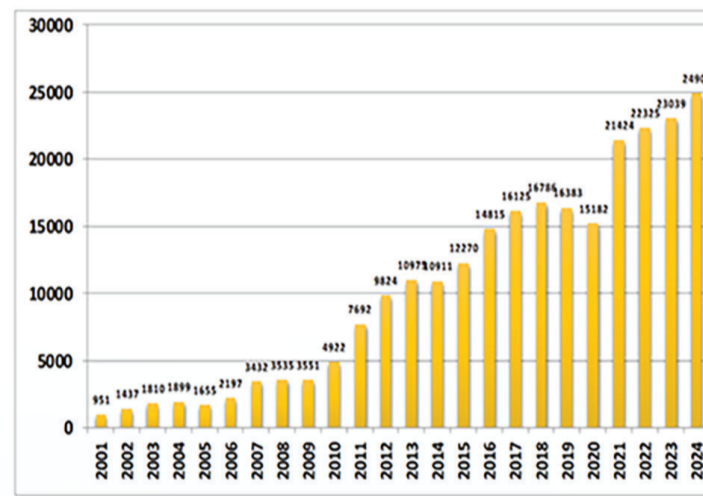
**New Case Patient Details**



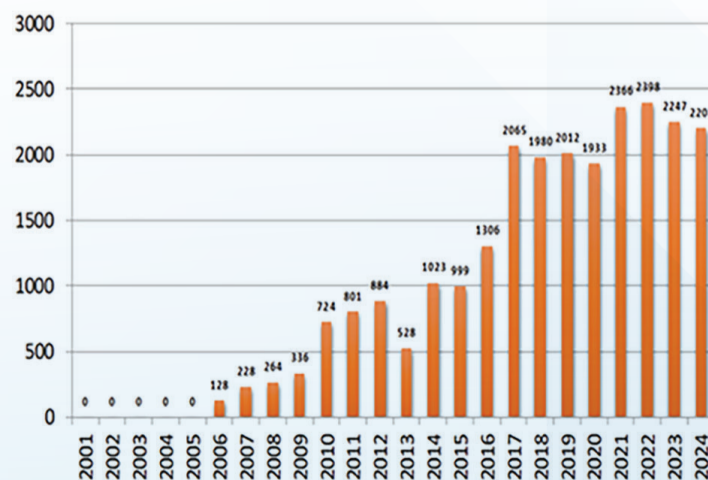
**CANCER SURGERIES**



**CHEMOTHERAPY**



**RADIOTHERAPY**



**B M T**





**BMT UNIT**



**LINAC MACHINE**



**OT**



**T**



**GENETICS LAB**



**MOLECULAR LAB**



**SPECT CT**



**DIGITAL MAMMOGRAM**



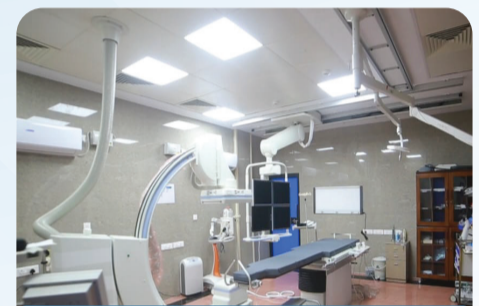
**ROBOTIC SURGICAL SYSTEMS**



**MRI**



**4D CT**



**CATH LAB UNIT**



**64 SLICE CT SCANNER**



**PET CT**



**CANCER BIO BANK**



**TELE COBALT UNIT**



**TREATMENT & ACADEMIC BLOCK**



**DAY CARE CHEMO WARD**



**TREATMENT & ACADEMIC BLOCK**



**CANTEEN**



**RECOVERY ROOM**



**LAB REPORTING ROOM**



**3 TESLA MRI**



**PEDIATRIC ONCOLOGY BLOCK**



**PEDIATRIC ONCOLOGY BLOCK**



**RECEPTION AREA**



**REGISTRATION AREA**



**INSeR-NURSING COLLEGE**



**TREATMENT & ACADEMIC BLOCK**



**CELL CULTURE FACILITY**



**PEDIATRIC PLAY AREA**



**MOBILE BLOOD BANK**

## Unique Achievements

- ◆ First Government owned hospital in Northern Kerala to start Bone Marrow Transplantation. More than 250 Bone Marrow transplants completed successfully.
- ◆ The first Government centre started performing pediatric bone marrow transplantations in Kerala. This includes Autogenic, Allogenic (Related and Unrelated) and Haplo-identical transplantations
- ◆ The only Government institution performing Pediatric stem cell transplantation for congenital disorders
- ◆ The Only Government institution performing Bone marrow transplantation for Hematological disorders- Thalassemia etc
- ◆ First Cancer Centre in Northern Kerala to acquire High end multiple energy linear accelerator with FFF technology.
- ◆ First Cancer Centre in Northern Kerala to acquire Blood Irradiator.
- ◆ First cancer centre in Kerala to Start Cancer Genetics Clinic
- ◆ First Cancer centre in India to develop, test and implement E-Palliative care.
- ◆ First Cancer Centre in South India to be a Pain Free Hospital
- ◆ First institution in Kerala to acquire and use Robotic biopsy and intervention radiology assistance system
- ◆ First Cancer centre in Northern Kerala to introduce High end Dual Energy Linear Accelerator with VMAT capability in Public sector.
- ◆ First government institution to NABL Accreditations for all labs in the state
- ◆ First Government Cancer Centre and institution to establish Next Generation Sequencer facility and Personalised Genomic diagnostic facility for cancer in the state
- ◆ First Government institution to establish Tumor Biobank in Kerala
- ◆ The Second Government institution in Kerala to start Robotic Surgery in Oncology. More than 150 surgeries completed.
- ◆ F-18 PSMA scan performed first time in Kerala
- ◆ The first Government Institution to launch Bone Marrow Donor Registry in India.
- ◆ Plaque brachytherapy started for the first time in Kerala for eye cancers.
- ◆ The second government institution in India has commenced the CAR-T Cell Therapy procedure.
- ◆ First Government healthcare facility to start Innovation and Incubation centre (MIINT) in the state
- ◆ Established Molecular Tumor Board and Personalized medicine facility in Cancer
- ◆ 'Kannapuram Model' is a success story of community participatory research in cancer care.

## Future Projects

- ✓ Centre for immunology, Gene Therapy and cellular therapy
- ✓ Center for AI in health care
- ✓ Center for early detection
- ✓ Center clinical trials
- ✓ Center rehabilitation and regenerative medicine
- ✓ Rehabilitation oncology-Reconstructive oncology, Regenerative medicine
- ✓ Nutrition oncology
- ✓ Neuro-oncology
- ✓ Integrative Oncology
- ✓ Over 1000 students in various areas of oncology and Nearly 100 researchers
- ✓ Nearly 10,000 new cancer patients per year and 1.5 lakhs of patient visits
- ✓ Bed strength to around 450
- ✓ Separate multi-specialty treatment units
- ✓ Research: Clinical Research Unit with multi-centric trials and drug development units, Stem cell research centre, Regenerative medicine labs

## New Initiatives

- ✓ Low-cost CAR-T Cell therapy
- ✓ Carbon neutral campus
- ✓ Paperless Hospital
- ✓ Upskilling training in association with other organizations and institutions
- ✓ Sleep clinic and lab for clinical care and research
- ✓ Onco- fertility clinic
- ✓ Transparent patient redressal mechanism
- ✓ Clinical and Research Quality Control and Assurance initiatives
- ✓ Extended Pediatric transplantation program
- ✓ Robotic surgery
- ✓ Industry Collaboration
- ✓ Personalised medicine and Precision oncology
- ✓ Molecular Tumour Board



**Kerala.HEALTH**

## **MALABAR CANCER CENTRE**

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