



## GOVERNMENT MEDICAL COLLEGE Kannur

Health and Family Welfare Department  
Government of Kerala

**KERALA.HEALTH**

GOVERNMENT MEDICAL COLLEGE Kannur

January 2026



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**GOVERNMENT MEDICAL COLLEGE**  
**Kannur**  
**Comprehensive Institutional Documentation**

**Health and Family Welfare Department**  
**Government of Kerala**

**KERALA.HEALTH**





## Message



GOVERNMENT OF KERALA

**Pinarayi Vijayan**

CHIEF MINISTER

No.109/Press/CMD/26

24 January, 2026.

### **MESSAGE**

Kerala's public health system has long been recognised for its commitment to quality, equity, and people-centred care and support. Medical College Hospitals play a key role, functioning not only as apex institutions for tertiary care but also as centres of excellence for medical education, research, and innovation.

The Government is developing Kerala as a 'Knowledge Economy' by laying a strong edifice of various institutions including Medical Colleges. The Medical College Hospital document showcases this commitment through its comprehensive clinical services, specialised departments, and advanced diagnostic and therapeutic facilities developments. It is playing a crucial role in training generations of doctors, nurses, and allied health professionals who serve both within Kerala and beyond all over the world.

This document is an important effort to present the services, achievements, academic activities, innovations, and future vision of the Medical College Hospital to people. It provides valuable insights for policymakers, administrators, and health professionals striving to strengthen Medical Colleges and make them Centres of Excellence.

I commend the dedicated efforts of the entire team who have contributed to the growth of this institution and in preparing this document.

I wish all the success to future endeavours.

**Pinarayi Vijayan**

**The Addl. Chief Secretary**  
Health Dept.  
Email: [acskeralahealth1@gmail.com](mailto:acskeralahealth1@gmail.com)





**Smt. Veena George**

Minister for Health &  
Family Welfare  
and Woman & Child Welfare  
Development  
Government of Kerala

**Message**

Medical College Hospitals form the backbone of the tertiary health-care delivery system, serving a dual role as centres of advanced patient care and as institutions for teaching, training, and research. Over the years, the Medical College Hospitals have evolved into comprehensive health-care hubs, providing specialized services to people and nurturing generations of competent medical and allied health professionals.

The Medical College Hospital stands as a testimony to the strength of the public health infrastructure, and access to quality tertiary care. Medical Colleges with its multidisciplinary departments, advanced diagnostic and therapeutic facilities, and dedicated workforce, are playing a pivotal role in addressing the complex health needs, and responding effectively to the tertiary healthcare.

This document systematically captures the services, achievements, innovations, academic activities, and future directions of the Medical College Hospital. It guides not only for institutional review but also for sharing best practices, and proposing policy decisions aimed at further improving health outcomes.

I appreciate the collective efforts of the Medical College Team who have contributed to the growth of this institution.

I also appreciate the contribution of the doctors, paramedical staff and support staff for preparation of such an extensive document.

I wish success in all future endeavours.

A handwritten signature in blue ink, appearing to read 'Veena George', with a light blue rectangular stamp behind it.

**Veena George**





## Preface

The Government has been taking various initiatives to build up a 'knowledge economy'. It gives mandate to build institutions entrusted with the responsibility of knowledge transfer in the respective domain areas. The Department of Health and Family Welfare has been taking a multipronged approach for development of health sector. Aardram Mission-1 focused at infrastructure development and Aardram Mission – Nav Kerala Karma Padhathi-2 continued its focus on various health programs and health system improvement measures.

The Department has given utmost importance towards the foundational field of Medical Education. Over time, our various medical colleges and medical college hospitals have been further developed by improving infrastructure, designing patient focused facilities, procuring various modern diagnostic equipment and measures and implementing state-of-the-art treatment avenues. These initiatives are supported by human resource management as well as human resource development. Strong governance of medical education and tertiary healthcare institutions development have resulted into qualitative improvement in health service delivery to all.

While discussing with the team, it was felt that a detailed document of these developments will not only inform regarding developments but it will also help to plan pragmatic future developments in medical colleges and improve health service delivery. The present generation of students will know their institution better and will take a pride in the fact the way these institutions are delivering the results.

This Medical College documentation initiative has been taken with the objective of providing a comprehensive overview of the institution's academic, clinical, administrative, and developmental dimensions. The documentation follows a structured framework covering institutional history, academic offerings, departmental facilities, human resource profile, infrastructure development, specialised programmes, research initiatives, and financial allocation. This approach enables systematic assessment of institutional performance, facilitates benchmarking across medical colleges, and supports informed decision-making at the departmental and policy levels.

Government Medical Colleges are complex institutions that integrate education, service delivery, and research. Effective planning for such institutions demands clarity on capacities, gaps, and future priorities. The preparation of this document has also

strengthened internal coordination, data consolidation, and accountability mechanisms within the institution. Medical Colleges are the worlds within worlds. This was not a simple task. It took months to prepare the documents! Even though to begin with there were questions regarding need of documenting, the teams took continuous efforts and the documents are prepared. The reader may feel that there a few things missed out but these documents will be always the foundation for the next editions and the posterity will understand about its value and utility.

I commend the collective efforts of those who have taken committed efforts to complete the tasks. Principals, hospital superintendents, faculty, administrative teams, and departmental units involved in this exercise.

The institutions are built by all working in the institutions right from the cleaners, security guard to the Principal and Superintendents. The students, both the undergraduate and postgraduate, have the idealism and energy. They should also contribute in a big way to betterment of systems and processes. The seniors should build such enabling environment that encourages taking initiatives in various field of medical science. It is our confidence that such 'thinking students' will not only understand the deeper meaning of gaining knowledge and skills but also put it to practice for the betterment of the society.

I am confident that this document will serve as a valuable reference for policymakers, administrators, and academic leaders, and will contribute meaningfully to the continued strengthening of Government Medical Colleges in Kerala and become the Centre of Excellence.

**Dr Rajan Khobragade IAS**

Additional Chief Secretary  
Health & Family Welfare and  
AYUSH Department  
Govt of Kerala.



## Message

Government Medical College, Kannur has grown into a premier institution of medical education, healthcare, and research. Over the years, it has evolved into a multidisciplinary centre of excellence, serving patients from across the state while nurturing generations of medical professionals.

This Health Document reflects that journey, highlighting the college's academic strengths, clinical services, infrastructure, and research initiatives. It stands as a testament to the institution's enduring commitment to compassionate care and innovation in medical science.

I commend the principal, faculty, and staff for preparing this comprehensive report. It will serve as a valuable reference for planning and policy, supporting the Directorate of Medical Education in strengthening Government Medical Colleges across Kerala.

I am confident that this compilation will further reinforce the Government Medical College, Kannur's role as a leader in advanced medical training, research, and patient care.

**Dr. K. V. Viswanathan**  
Director of Medical Education  
Government of Kerala



## Message



Government Medical College, Kannur proudly presents this comprehensive Health Document that chronicles our institution's journey in medical education, healthcare delivery, and research excellence since its establishment. This publication serves as an authoritative reference showcasing our academic programs, clinical services, infrastructure developments, and research contributions that continue to strengthen Kerala's northern region's healthcare ecosystem.

The document systematically details our departmental achievements, specialized treatment facilities at Pariyaram, faculty expertise, student accomplishments, and community outreach initiatives serving Kannur and surrounding districts. It reflects the collective dedication of our faculty, resident doctors, nursing staff, and administrative team who work tirelessly to uphold the highest standards of patient care and medical training.

This document signifies our commitment to continuous improvement, alignment with National Medical Commission standards, and strategic planning for future expansion. We are confident this compilation will guide policy decisions and reinforce our pivotal role under the Directorate of Medical Education, Government of Kerala.

**Dr. Sairu Philip**

Principal

Government Medical College, Kannur



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## CHAPTER 1

### MCH- OVERVIEW

#### 1.1 Introduction

##### Brief institutional profile

Government Medical College, Kannur is the biggest Super Speciality Medical Institution of North Kerala and is a Centre of Excellence that offers quality medical and para-medical education with an infrastructure that is one of the best in the country. Within a short span of its inception, it has made its mark in the field of medical education as a quality institution growing at considerable pace, grooming future health care professionals. Eminent faculty and fully staffed departments with good facilities, set an excellent educational environment. The academic achievements of the institution are several, which include University ranks, admission to higher studies etc. All India toppers in competitive exams for PG entrance at AIIMS, All India Medical Entrance etc. It has maintained best results in Kerala in all university examinations consistently. All the courses offered are approved by competent authority. The institution aims to offer several courses in various areas of medical science and is also running PG degree & Diploma courses.



Figure 1.1 Government Medical College. Kannur

The teaching Hospital of GMC Kannur is an 850 bedded hospital complex supported by more than 20 specialities and nine super speciality departments manned by very competent experienced medical professionals who render their service with a personal touch. This modern hospital has 20 Operation Theatres, fully equipped with advanced bio-medical equipment to conduct most advanced and complicated surgical procedures at all speciality and super speciality levels.

GMC Kannur is a Centre of Excellence and is the ultimate destination regarding the health care needs of the entire population of Kannur and Kasargod districts and neighboring parts of Wayand and Kozhikode districts as well as some regions of Dakshin Karnataka. Its sprawling campus consists of Medical College & Hospital, Dental College & Hospital, Nursing College, Pharmacy College, Nursing School and a dedicated Cardiovascular Unit.

GMC Kannur was conceived with an objective to open new vistas into the training of medical education for undergraduates and postgraduates, the lofty objective being to create a generation of socially useful and ethically conscious doctors. Its purpose is to bring together in one place, educational facilities of the highest order for the training of self-sufficient personnel in all important branches of health activity, including medical postgraduates. The institute has comprehensive facilities for teaching, inexhaustible resources for medical and allied research and it delivers credible patient care at an affordable cost.

In tune with Government of Kerala's concept to have a Government Medical College in each district for providing enhanced treatment and boost quality medical education in Kerala, on 05.12.2016, the Hon Chief Minister of Kerala, Sri. Pinarayi Vijayan convened a meeting and decided to take over the Kerala State Co-operative Hospital Complex and Centre for Advanced Medical Services Ltd. No. 4386 and Academy of Medical Sciences, Pariyaram (Pariyaram Medical College).

As per Ordinance no 33/2018 dated 14.04.2018, the Government of Kerala had taken over the management of the Pariyaram Medical College. A Board of Control chaired by the District Collector and two other members was given the charge of the

administration of the institution

As per the Ordinance no 20/2019 dated 02.03.2019 by the Government of Kerala the take- over of the institution was complete. The erstwhile KCHC & ACME are renamed as **“Government Medical College Kannur”** under the control of Director of Medical Education, Kerala as per GO (rt) no 44/2019 H&FW dated 18.03.2019 & GO no 55/2019 dated 08.04.2019. 11 (eleven) posts were created for the smooth administration of the Government Medical College Kannur and the posts were filled by transfer from other Government Medical Colleges.

The first Principal of Government Medical College, Kannur assumed office on March 7, 2019.

The integration process of the existing staffs was started in the month of June and is nearing completion. The salary of the employees till November was paid out of the income generated from this institution. On November 2019 head of account was created and Rs 20 Crores had been allotted for the payment of salary of existing employees in this institution. Later funds were allotted in installments for salary.



Figure 1.2 Government Medical College, Kannur

Government Medical College Kannur is a prestigious institution established in 1995

which has been imparting training in various healthcare related courses. Situated in the strategic location adjacent to the national highway, the hospital caters to a population of 50 lakhs from across two states and four districts. The nearest government medical college situated on national highway is 400 kms away. Being the only tertiary government institution in a radius of 120 kilometres, the entire population is served by our institution. The unique location of the institutions makes it possible to cater to various socioeconomic demographics including coastal belt, tribal population along with urban population.

The annual OP census is approximately 4.5 lakh and on an average IP daily statistic of 150 patients/day with 700 IP patients at any point of time. We are having an average increase of 17% of footfall on yearly basis in the Emergency department with footfall doubling since past 6 years. With initialization of new specialties and super specialty to the patient care aspects, there is a steady increase in the number of patients seeking care.

### Campus details

Total Land Area: 119 acres

Location: Adjacent to National Highway 66

**Table 1.1 Building details of GMC, Kannur**

SL No	Name of the Building	Plinth Area in M2	Purpose of Construction	Year of Construction	mode of construction
1	Hospital Complex	63460	Multi Speciality Hospital	2000	Multi storied building
2	Dental College	3650	Dental College cum hospital	2002	Multi storied building
3	Medical	35000	College of	1998	Multif storied

	College		medical sciences		building
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### Academic, hospital & community training units

- I. Urban Health Centre: Kandankali Urban Health Centre, Payyanur, 15 Km Distance from GMC Kannur
- II. Rural Health Centre: Payangadi Rural Health Centre: Eripuram, 9 Km Distance from GMC Kannur
- III. Primary Health Centres: Cheruthazham Family Health Centre, Pilathara, 6 KM distance from GMC Kannur & Pariyaram Primary Health Centre: 4 km from GMC Kannur
- IV. MBBS Clinical Posting Centres: District Hospital Kannur, Taluk Headquarters Hospital, Taliparamba and EKNM Mother and Child Hospital Managatumbaramba

### Recognitions

- i. Nation Medical Commission (NMC), New Delhi
- ii. Kerala University of Health Sciences (KUHS), Thrissur
- iii. Pharmacy Council of India

#### • Key features

- a) Telemedicine Facility
- b) High-speed internet connectivity (300 Mbps)
- c) 1000 Line EPABX Communication System

### MISSION

1. To improve the overall health status of people of Kerala by providing comprehensive quality health care of high standards.
2. Impart quality medical education by establishing a premier medical institution with graduate, post graduate and post-doctoral courses.

3. Provide emergency and intensive care at affordable cost by establishing a sophisticated modern hospital of international standards.
4. To maintain excellence in all activities relating to Health Care, as a model in Government sector.
5. Always to uphold ethical values and human dignity.

## **VISION**

A Centre of Excellence for Medical Education & an Institution for Comprehensive Health Care.

## **1.2 History**

Kerala State Co-operative Hospital Complex and Centre for Advanced Medical Services Ltd. No. 4386 (KCHC), which is a Co-operative Society registered under Kerala Co-operative Societies Act 1969, (Registration No is 4386) and the date of registration as 26.03.1993, with an objective to establish a full-fledged hospital with modern medical facilities and provide educational facilities.

**The Academy of Medical Sciences (ACME)**, Pariyaram was registered under Societies Registration Act in 17.09.1993. Institutions such as Medical College, Dental College, Nursing College, Nursing school, Pharmacy College, Public School and Sahakarana Hrudayalaya are functioning under the governance of ACME.

As per a government order in 1992, the Pariyaram TB Sanatorium was handed over to the Kerala State Co-operative Hospital Complex and Advanced Medical Services Limited, registered in the cooperative sector. Subsequently, in 1993, as part of the establishment of the Medical College here, an outpatient department was opened. A charitable society was registered under the cooperative society to start a medical college and the first MBBS batch of the self-financing medical college in Kerala was started in 1995.

- **Year of Establishment** : 1995
- **Major milestones** :

1995	MBBS programme commenced
2000	Medical College Block inaugurated
2002	Hospital Block inaugurated
	College of Nursing established
2003	Full-fledged Cardiac Unit commissioned
2004	Postgraduate (PG) courses introduced
	Dental College established
2019	Institution takes over by the Government

- **Evolution of Campus**

- Shifted to new campus
- Medical College Block inaugurated in 2000
- Hospital Block inaugurated in 2002
- Full Fledged Cardiac Unit started in 2003

- **Alumni contributions**

- Open Auditorium
- Examination Hall Renovation
- Pharmacology Lecture Hall

- **Institutional Identity**

- Name: Government Medical College Kannur
- : Pariyaram, Kannur, Kerala
- Adjacent to NH 66; 34 KM from Kannur Railway Station (Manalore Route)

and 14 KM from Payyanur Railway Station (Kannur Route) and 47 KM from Kannur Airport

- Affiliation: Kerala University of Health Sciences, Thrissur
- Campus area: 119 acres adjacent to National High Way 66

- **Governance**

- College**

- Principal

- Vice Principal

- HOD's

- Faculties

- Hospital**

- Medical Supdt

- Deputy MS

- Deputy MS EMD

- RMO

- ARMO

- Clinical Department HOD's

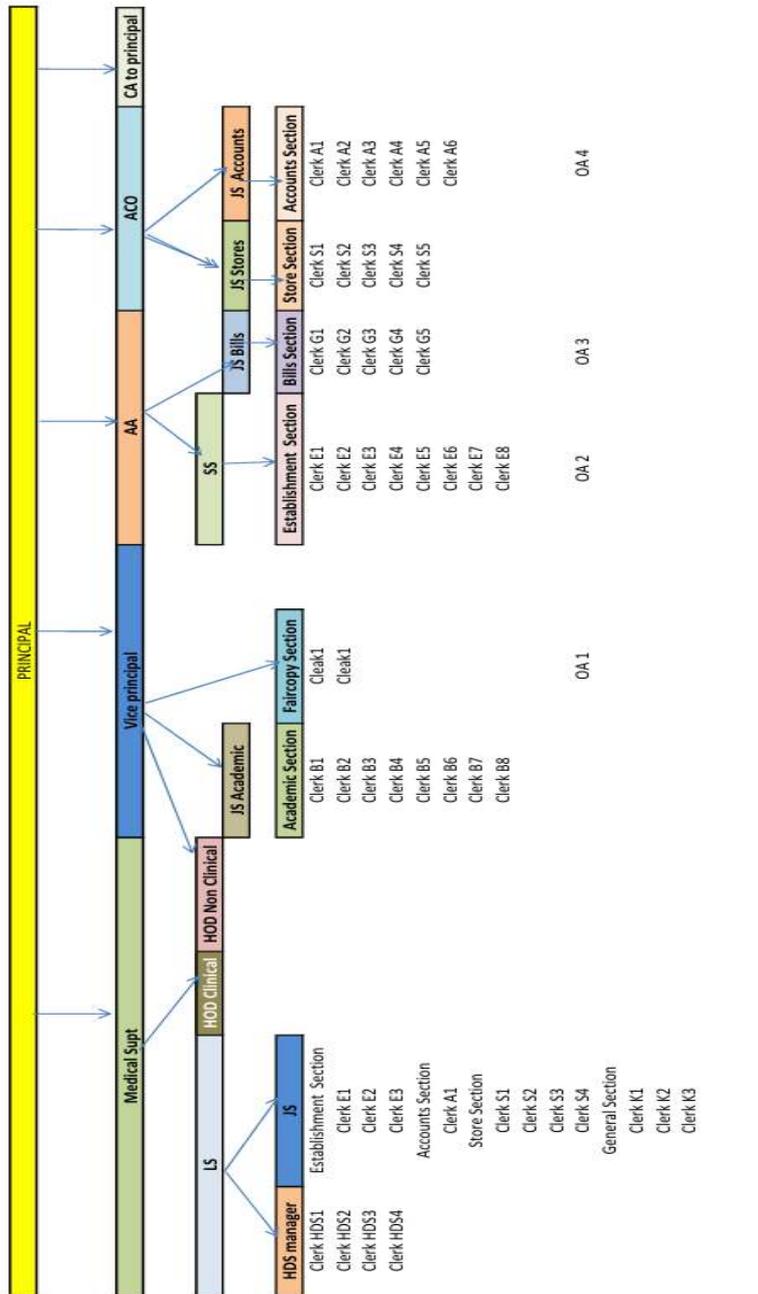
- Faculties

### **1.3 Administration**

- Principal: Dr. Sairu Philip
- Vice Principal: Dr. Sheeba Damodar K P
- Superintendent: Dr. Sudeep K
- Supporting administrative sections
  - Accounts Section

- Academic Sections
- Establishment Sections
- Bill Sections
- Purchase Section
- Fair Copy Section
- Administrative Assist
- Digital systems

• Administrative Structure



- **Institutional Committees**

- Anti- ragging committee
- PG committee
- Medical education Unit
- Institutional research committee
- Institutional Ethics committee
- Curriculum committee
- SSGP

## CHAPTER 2

### ACADEMICS OVERVIEW



## 2.1. Central Laboratory Services

The Central Laboratory is equipped with state-of-the-art automated diagnostic systems and functions round the clock to ensure rapid and accurate investigations.

### Major Equipment

- Fully Automatic Biochemistry Analyser – Beckman AU5800 (2 units)
- Five-Part Differential Cell Counter – BC 6000 (2 units)
- Fully Automatic Immunology & Biochemistry Integrated Unit – COBAS Pure
- Fully Automatic Coagulation Analyser – STA Compact Max

### Key Features

- Expert guidance by Consultant Pathologists, Microbiologists, and Biochemists
- 24 × 7 laboratory services
- Bidirectionally interfaced Laboratory Information System (LIS) with State eHealth Network
- External Quality Assurance with CMC Vellore
- Internal Quality Assurance with Roche and Beckman
- Minimum Turnaround Time (TAT) for all investigations

## 2.2. Emergency and Trauma Care Services

A dedicated, fully equipped Emergency Department providing comprehensive emergency and trauma care.

### Facilities

- Standalone Emergency Department with EM-trained faculty available 24 × 7
- NMC-accredited **MD Emergency Medicine Programme** (4 seats per year – highest in the state)
- 45-bedded Emergency Department with 4-bedded ICU

- Advanced cardiac arrest resuscitation facilities including:
  - Mechanical CPR device
  - CPR feedback device
  - Diastolic blood pressure monitoring
  - End-tidal CO<sub>2</sub> (EtCO<sub>2</sub>) monitoring

#### Advanced Emergency Procedures

- Bronchoscopy and Endoscopy
- Transcutaneous and Transvenous Pacing
- Surgical Airway Procedures
- Dialysis support

#### Support Services

- Portable Ultrasound and X-ray with PACS
- Dedicated Trauma Team with multi-specialty Trauma On-Call System

### **2.3. Intensive Care Units (ICUs)**

Separate, specialized ICUs cater to diverse critical care needs.

#### ICU Facilities

- Medical ICU – 14 beds
- Toxicology ICU – 5 beds (snakebite and poisoning management)
- Surgical ICU – 12 beds
- Neurosurgical ICU – 14 beds
- Paediatric ICU (PICU) – 12 beds
- Neonatal ICU (NICU) – 20 beds
- Obstetrics ICU – 10 beds
- Respiratory ICU – 12 beds

- General Surgery ICU (GSICU) – 5 beds
- Transplant ICU – 5 beds
- High Dependency Unit (HDU) – 14 beds
- Neuro Step-Down ICU – 5 beds

#### Cardiology Critical Care

- Cardiology Critical Care Unit – 28 beds
- Cardiology HDU – 6 beds
- Cardiovascular ITU – 12 beds

All ICUs are equipped with modern ventilators, cardiac monitors, infusion pumps, and advanced hemodynamic monitoring systems.

#### **2.4. Dialysis Unit**

A modern, fully functional dialysis unit providing uninterrupted renal care.

- 24-hour dialysis services
- 30 advanced ultra-modern dialysis machines
- Capacity to dialyze 30 patients simultaneously
- Dedicated full-time Nephrologist
- Trained and experienced paramedical staff
- Separate isolation dialysis facilities within ICUs

#### **2.5. Blood Bank Services**

One of the most advanced blood banks in North Kerala.

- 24-hour blood bank support for hospital and external referrals
- Full-fledged component separation facility
- Recognized as Regional Blood Transfusion Centre (RBTC) by Kerala State AIDS Control Society

- Adequate stock of all blood groups and components
- Advanced screening technologies ensuring safe transfusion
- Regular voluntary blood donation and awareness camps
- Support for transfusion-dependent conditions such as:
  - Thalassemia
  - Hemophilia
  - Dialysis patients
  - Hematological malignancies

A dedicated **Blood Donation Forum** functions under the supervision of the NSS unit.

## **2.6. Academic Facilities**

### **2.6.1 Central Library**

One of the best medical college libraries in Kerala.

- 24 × 7 access with high-speed internet
- Total area: 3,500 sq. meters
- Collection includes:
  - 11,000 medical books
  - Over 1,000 journals (Indian & International, including back volumes)
  - 500 medical CDs
- E-library facility (One Nation One Subscription)
- Audio-visual equipment, Xerox facility, UPS
- Separate departmental libraries

### **2.6.2 Departmental Laboratories**

- All departments have independent laboratories equipped with modern instruments.

### **2.6.3 Central Museums**

- Museums for Anatomy, Forensic Medicine, and Pathology
- Collections include:
  - 350+ dissected specimens
  - 150+ embryology specimens
  - 300+ osteology specimens
  - 200+ models and charts

### **2.6.4 Lecture Halls & Auditoriums**

- 9 gallery-type lecture halls (200 seating capacity each)
- Seminar halls for each department
- Auditorium with seating capacity of 1,000
- Air-conditioned CME Hall
- Special examination hall for 500 students
- Demonstration rooms in all departments
- Equipped with modern audio-visual aids

### **2.6.5 Dissection Hall**

One of the largest dissection halls in India.

- Capacity for 200 students simultaneously
- 20 stainless steel dissection tables
- Modern embalming laboratory
- Well-ventilated and well-lit
- Adequate storage for cadavers and wet specimens

### **2.6.6 Embalming Lab.**

- Articulated skeletons, wet specimens, models, charts and facilities to keep full

cadavers and wet specimens.

## **2.7. Campus Facilities**

### **2.7.1 Sports & Recreation**

- Sports complex spread over 36,000 sq. meters
- Facilities for:
  - Football, Volleyball, Basketball, Tennis, Cricket
  - 8-lane synthetic athletic track
- Located near hostels and staff quarters

### **2.7.2 Hostel Facilities**

- Separate hostels for male and female students
- Single, double, and triple occupancy rooms with balconies
- 300-seater mess
- Recreation and indoor game facilities
- Uninterrupted power, water, and communication facilities

### **2.7.3 Other Campus Amenities**

- Hygienic canteen
- Herbal garden with rare medicinal plants
- Effluent Treatment Plant & Sewage Treatment Plant
- Post Office and Bank
- Biomedical Waste Disposal Incinerator
- Central Sterile Supply Department (CSSD)
- Telemedicine services
- Power laundry
- 1000-line telephone exchange

- Dedicated KSEB power supply with campus-wide generator backup

## **2.8. Health Infrastructure & Major Equipment**

- Digital Cardiac Catheterization Lab with CT Angiography & 3D reconstruction
- Radiofrequency Ablation and Heart–Lung Machine
- Hi-speed Multislice CT Scanner
- Digital X-ray and Advanced C-Arm Systems
- 3D/4D Ultrasound with Colour Doppler
- Mechanical chest compression devices
- Defibrillators with pacing & CPR feedback
- Point-of-care labs (ABG, cardiac & inflammatory markers)
- Advanced anesthesia workstations
- Bronchoscope, video laryngoscope
- Sleep Lab
- Endoscopy, Capsule Endoscopy, Endosonography
- 3D Laparoscopy, Harmonic Scalpel
- Ophthalmic equipment including YAG laser & Phaco machine
- EEG, Video EEG, BERA
- Paediatric & neonatal ventilators, HFNC, Bubble CPAP
- CRRT & portable RO dialysis systems

## **2.9. Special Clinics**

- Infertility Clinic
- Prostate Clinic
- Well Baby Clinic
- Antenatal & Postnatal Clinics

- Trophoblastic Clinic
- Urinary Incontinence Clinic
- Menopause Clinic
- Asthma Clinic
- Endocrinology & Diabetic Clinics
- Hematology Clinic
- Child Guidance & Adolescent Clinics (with counselling)
- Deafness, Vertigo, Headache & Tinnitus Clinics
- Epilepsy & Movement Disorder Clinics
- Inflammatory Bowel Disease Clinic
- Pain & Palliative Care Clinic
- Orthopedic Rehabilitation Clinics (Neck, Back Pain & Arthritis)
- Obesity Clinic
- DOTS Centre
- Marital Counselling Clinic
- Family Planning Services

## 2.10. Undergraduate Courses

**Table 2.1 Details of Undergraduate Academic Programmes**

Sl No	List of UG programs	Seat allocation table	Duration	Eligibility	Recognitions
1	MBBS	100	4 ½ year +	Plus Two (12 <sup>th</sup> ) with Physics,	National Medical

		(Admission via KEAM)	1 Year Internship	Chemistry, Biology (PCB) & English (min 50% for General, 40% for Reserved), be at least 17 years old, and clear the national NEET-UG entrance exam with a valid score, followed by counselling for seat allotment	Commission (NMC) and Kerala University of Health Sciences
2	BSc MLT	25+2	4 Years	Plus Two (12 <sup>th</sup> ) with Science (Physics, Chemistry, Biology) and secure at least 50% marks in aggregate	Kerala University of Health Sciences
		(Admission via LBS)			
3	B Pharm	60+6	4 Years	Plus Two (12 <sup>th</sup> ) with 50% aggregate in Physics, Chemistry, and Biology/Maths (PCMB), plus English	Pharmacy Council of India, Kerala University of Health Sciences
		(Admission via KEAM)			

**2.11. Postgraduate Courses****Table 2.2 Details of Postgraduate Academic Programmes**

Sl. No.	PG details	N-P011(20)/15/2025-PGMEB-NMC/026089(Affiliation)	Added (2025) seats	LOP-N-23011/95/2025-Ass.cell/MARB (FTS:8341705)
1	MD Physiology	2		2
2	MD Forensic	0	<b>1</b>	1
3	MD Microbiology	1		1
4	MD Community Medicine	2		2
5	MD Pathology	2		2
6	MD Dermatology	3		3
7	MD Psychiatry	2		2
8	MS ENT	3		3
9	MS Ophthalmology	2		2
10	MD Emergency Medicine	2	<b>2</b>	4
11	MD Radiodiagnosis	1	<b>2</b>	3
12	MS OBG	2	<b>1</b>	3

13	MD Paediatrics	2	<b>2</b>	4
14	MS Orthopaedics	2	<b>1</b>	3
15	MD General Medicine	4	<b>2</b>	6
16	MD Respiratory Med.	2	<b>1</b>	3
17	MS General Surgery	2	<b>1</b>	3
18	MD Anaesthesiology	2	<b>2</b>	4
	<b>MPharm</b>			
19	Pharmaceutics	10		
20	Pharmacognosy	12		
21	Pharmacology	12		

### 2.12. Super-Specialty Courses

Table 2.3 Details of Super speciality Courses

Sl. No.	PG details	N-P011(20)/15/2025- PGMEB- NMC/026089(Affiliation)	LOP-N- 23011/95/2025- Ass.cell/MARB (FTS:8341705)
1	DM Cardiology	1	1

### 2.13. Proposals for Academic Development

- Proposed increase in seats-If any  
MBBS seats increase from 100 to 150 through centrally sponsored scheme (Phase 3)
- New PG/SS proposals-If any  
PG and Super Speciality seats increase from 52 to 99 through centrally sponsored scheme (Phase 3)
- Emerging specialties  
Head and Neck Surgery Department



Synthetic Trak and Football Ground – Khelo India Project & MLA Fund



New Cath Lab Inauguration



New Cath Lab



Digital X-ray



New Lifts



Arogyam Anandham Campaign



CPR Training

## CHAPTER 3

### DEPARTMENT-WISE HEALTH FACILITIES

#### 3.1. Overview of Facilities (Peripheral Facilities)

##### Bed Strength

- Total Inpatient (IP) Beds: 850

##### Intensive Care & Critical Care Beds

###### Intensive Care Units (ICUs)

- Medical ICU – 14 beds
- Toxicology ICU – 5 beds
- Surgical ICU – 12 beds
- Neurosurgical ICU – 14 beds
- Paediatric ICU – 12 beds
- Neonatal ICU – 20 beds
- Obstetrics ICU – 10 beds
- Respiratory Intensive Care Unit – 12 beds
- General Surgery ICU (GSICU) – 5 beds
- Transplant ICU – 5 beds

###### High Dependency & Step-Down Units

- High Dependency Unit (HDU) – 14 beds
- Neuro Step-Down ICU – 5 beds

###### Cardiology & Cardio-Thoracic Critical Care

- Cardiology Critical Care Unit – 28 beds
- Cardiology HDU – 6 beds
- Cardiovascular Intensive Therapy Unit (CV-ITU) – 12 beds

### **Clinical Departments**

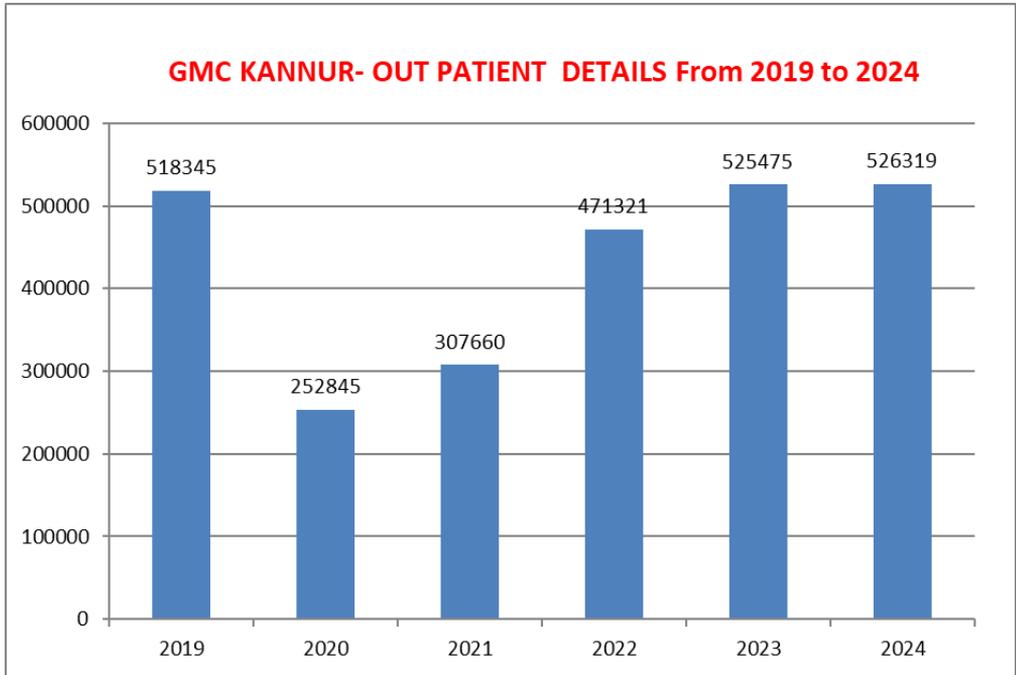
1. General Medicine
2. Respiratory Medicine
3. Dermatology & Venereology
4. Psychiatry
5. Emergency Medicine
6. Anesthesiology
7. Radio diagnosis
8. Physical Medicine & Rehabilitation
9. Radiotherapy
10. General Surgery
11. Orthopedics
12. Otorhinolaryngology (ENT)
13. Ophthalmology
14. Paediatrics
13. Obstetrics & Gynecology

### **Super Specialty Departments**

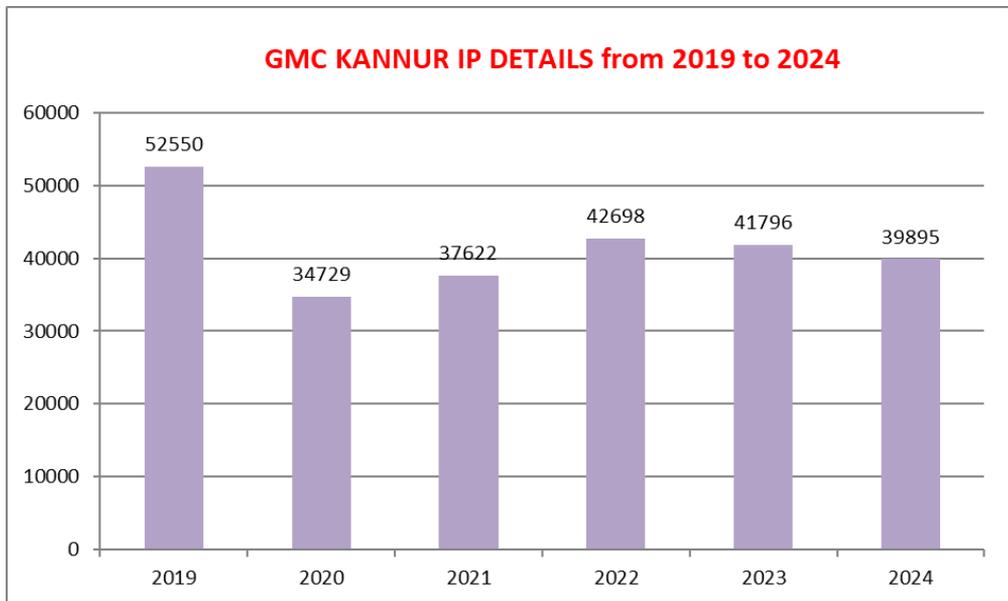
1. Neuro Medicine
2. Neuro Surgery
3. Cardiology
4. Cardio Vascular Surgery
5. Urology
6. Nephrology
7. Gastroenterology
8. Plastic Surgery
9. Paediatric Surgery
10. Head and neck Surgery

**3.2. Annual OP/IP figures**

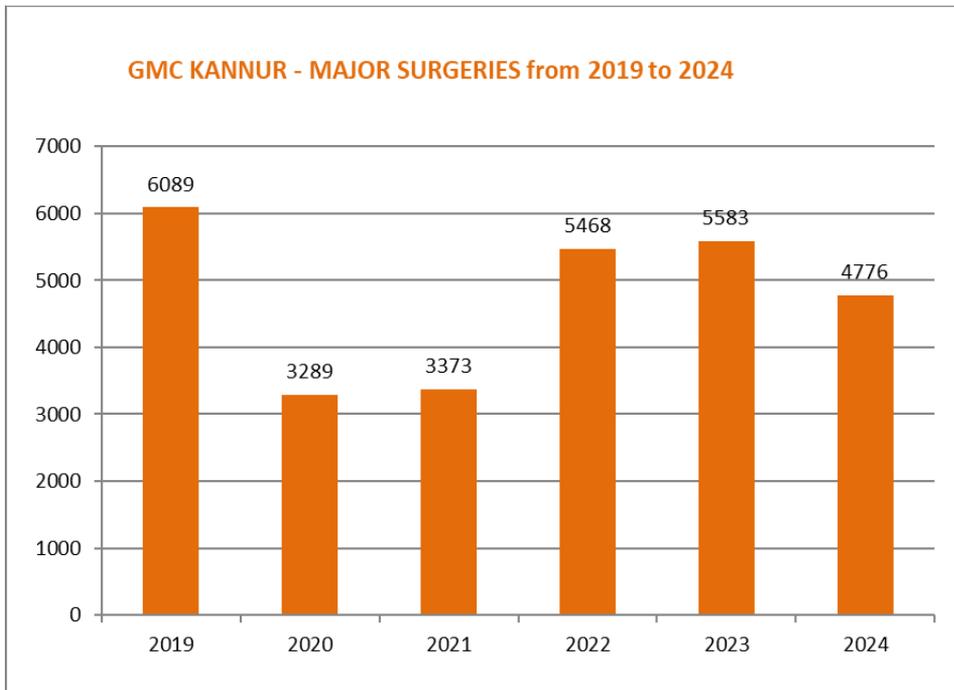
**Table 3.2.1 GMC Kannur - Out patient Details from 2019-2024**



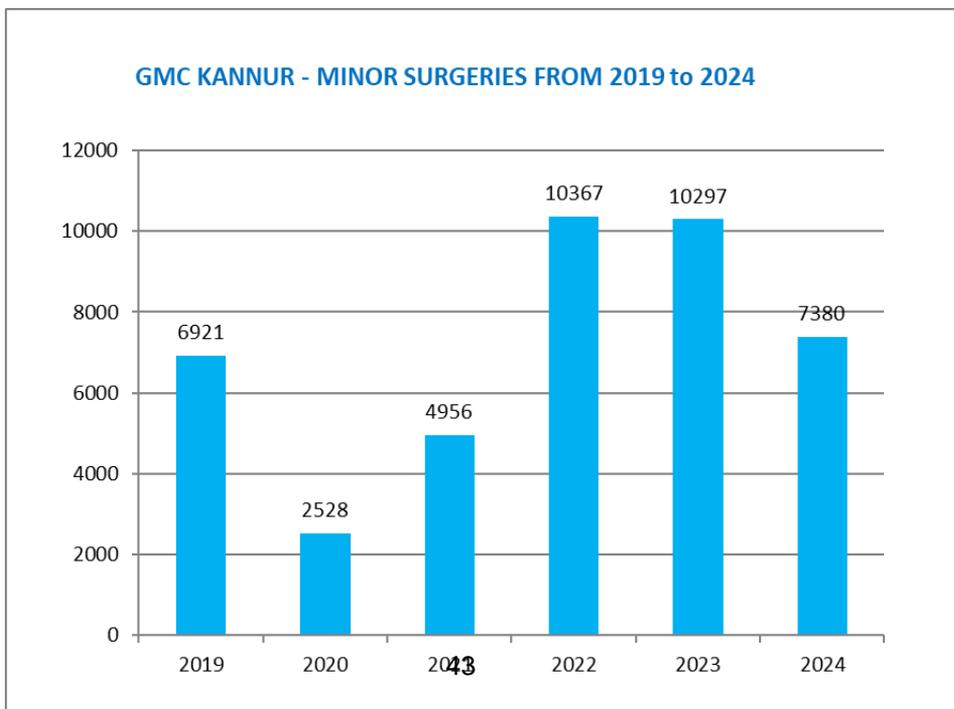
**Table 3.2.2 GMC Kannur IP details from 2019-2024**



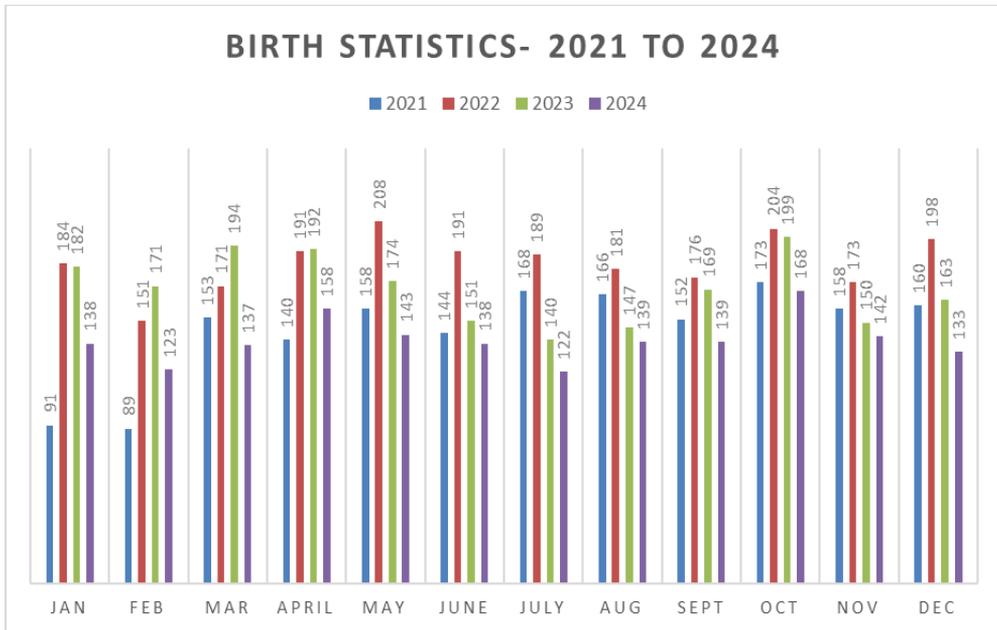
**Table 3.2.3 GMC Kannur - Major Surgeries from 2019-2024**



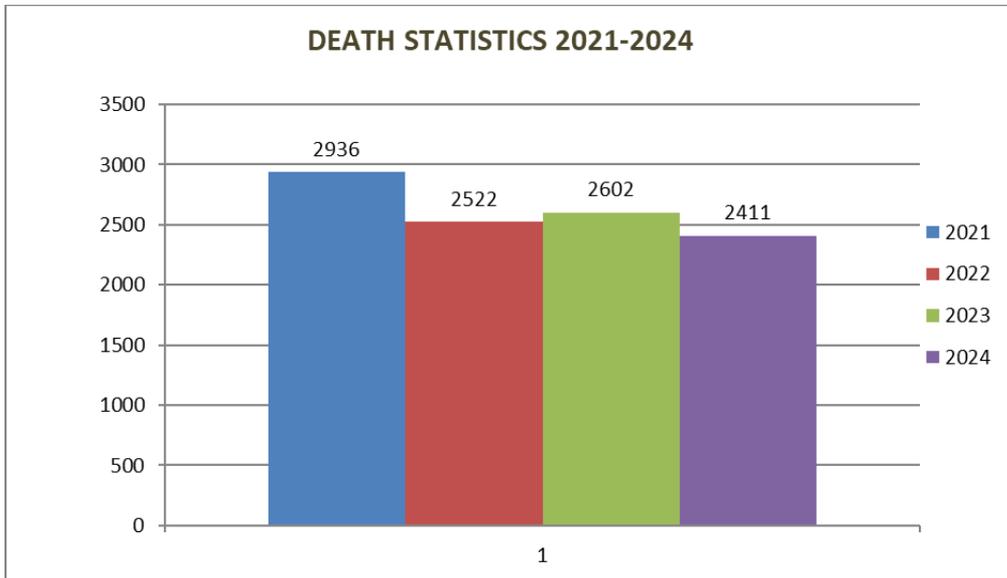
**Table 3.2.4 GMC Kannur - Minor Surgeries from 2019-2024**



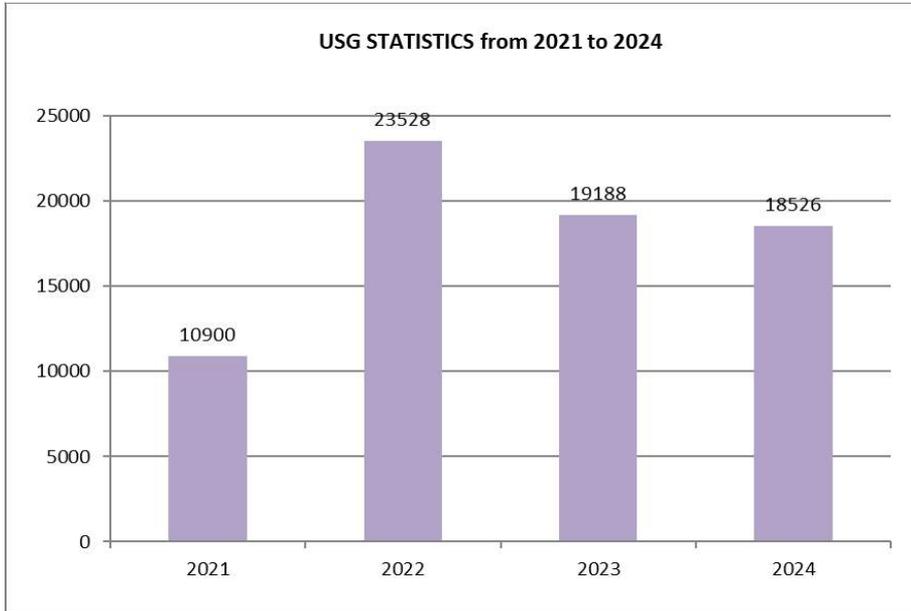
**Table 3.2.5 Birth statistics - 2021 to 2024**



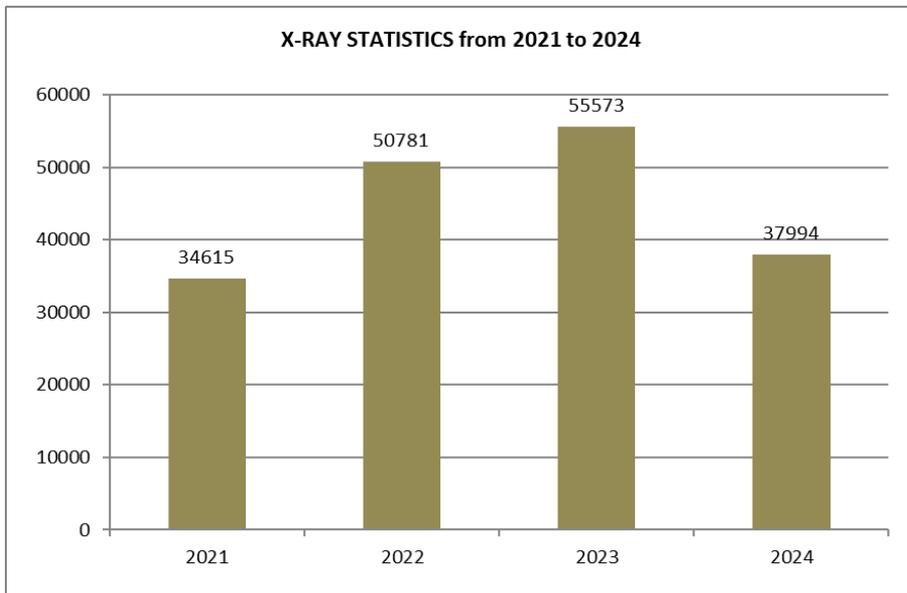
**Table 3.2.6 Death Statistics 2021 - 2024**

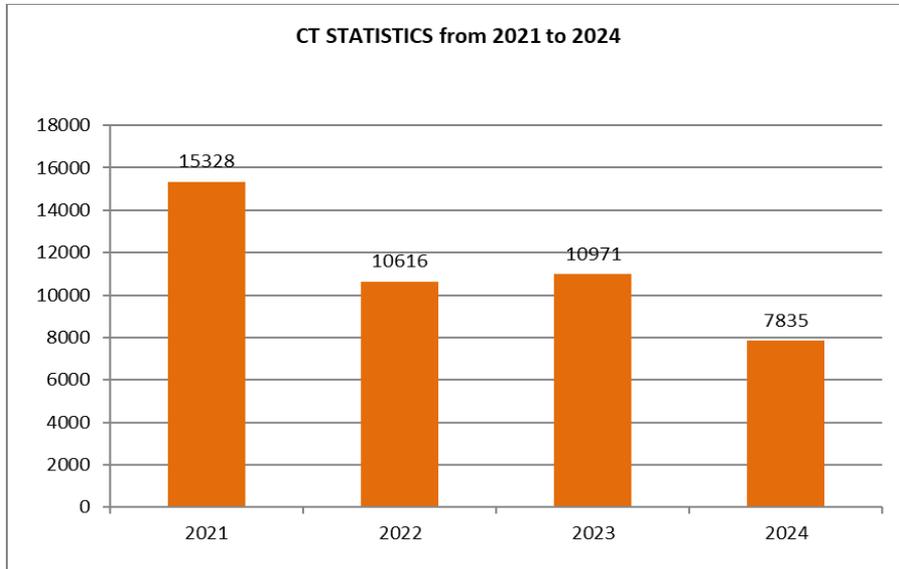


**Table 3.2.7 USG Statistics from 2021 to 2024**



**Table 3.2.8 X-ray statistics from 2021 to 2024**



**Table 3.2.9 CT Statistics from 2021 to 2024**

### 3.3 Department-wise Details

Kannur Government Medical College is a super specialty medical college that provides the most relief to the people of Kannur, Kasaragod, and Wayanad districts. Modern medical equipment, labs and other basic facilities are available here. The departments working here and the facilities there are given in detail below.

#### 1. Department of General Medicine

Introduction:

Department of General Medicine caters to 100 MBBS students yearly and 4 MD Medicine (increase to 6 this year) Junior Residents per year. It provides state of the art diagnostic & therapeutic services including critical and emergency care to patients coming from Kannur, Kasaragod Districts and parts of Wayanad and Kozhikode. Department also acted as Research centre for PhD programme under Kannur University previously. Now it also acts as recognised research centre for KUHS and has produced 2 Research Scholars from the Department.

**Table 3.3.1 Equipments and Facilities**

Multipara Monitors	40	Pulse Oxymeters	60	Syringe pump	60
Upper GI endoscope	3	Colonoscope	2	Bronchoscope	4
Dialysis machines	20	ECG	10	TMT	4
Echo- color Doppler	5	Holter	2	Defibrillator	6
Resuscitation kit	50	Crash cart	10	Other routine use equipment	
Any other		Computerized PFT equipment	2		

***Clinical Services:***

- Daily OPD Service from 8 am to 3 p.m except on Sundays.
- 24 hrs duty physician available for Emergency services.
- IP care provided for average of 200 patients per day.
- Round the clock facility for Emergency Interventions and critical care with 14 bedded MICU& 6 bedded Toxicology ICU.
- Clinical classes for MBBS, BDS & PG students

**Table 3.3.2 Operational Statistics (Tables, 2019- 2025 Dec data)**

<b>Outpatient (yearly data)</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025 Till Nov</b>
Total number of patients in OPD	48586	18499	22500	41045	49015	50631	49158
Total number of patients Admitted (IPD)	12762	9746	13180	12528	12428	12931	12745

***Special Initiatives:***

- NVHCP conducted with Associate Professor, Department of Medicine as the Nodal Officer.
- ART Centre is functioning under the guidance of a Professor of Medicine as the Nodal Officer.
- Conducts public awareness and academic programmes as a part of World Diabetic day, World Hepatitis Day etc.
- Regular Departmental CME's for academic improvement conducted.

***Key Gaps / Future Requirements:***

- Expansion of PG seats to 12 per year
- Starting of speciality clinics
- Dedicated skill lab for the department
- Expansion of departmental library including digital library facility.
- Conducting yearly CME under department of Medicine
- Post creation of assistant professors and senior residents for catering the increasing clinical and academic load.

**2. Department of Respiratory Medicine****Introduction**

The department has 35 ward beds, 6 ICU beds and 4 DR TB ward beds. This is a PG

department from the year 2012. We are having 2 professors and 1 assistant professor as faculty. In addition, one more assistant professor and one lecturer post have been sanctioned but vacant at present.

### ***Equipments & facilities***

#### Major equipments

- Videobronchoscope-1
- Medical thoracoscope- 1
- Rigid bronchoscope – 1
- Spirometer-2
- DLCO machine- 1
- FENO analyser- 1
- USG MACHINE-1

### ***Facilities***

- Postgraduate students teaching and training
- Asthma, COPD clinics, Quit tobacco clinic
- Management of Interstitial Lung Diseases (ILD), Pulmonary Hypertension
- Treatment of diseases caused by inhalation of toxic substances
- Pulmonary Function Testing -Spirometry, DLCO, FENO testing
- Adult Bronchoscopy -flexible and rigid, bronchoscopic diagnostic and therapeutic procedures
- Endobronchial and transbronchial biopsy
- Polysomnography
- Transbronchial needle aspiration
- Medical thoracoscopy
- DRTB centre - treatment for MDR tuberculosis
- Respiratory failure treatments- Invasive ventilator support & noninvasive ventilator support
- CT guided and USG guided thoracic procedures and biopsy
- bedside Ultrasound screening

- Pulmonary rehabilitation
- Respiratory physiotherapy
- Difficult asthma treatment
- Home oxygen treatment initiation

### ***Clinical services***

Weekly 6 days OPD and Ward along with Respiratory ICU facility.

Speciality clinics

- Asthma, COPD clinics
- Pulmonary Rehabilitation
- Smoking Cessation clinic
- TB Diagnostic and treatment centre

### ***Operational statistics***

**Table 3.3.3 Outpatient data**

year	2019	2020	2021	2022	2023	2024	2025
OP	1809	7677	8940	15332	17491	17403	17685

**Table 3.3.4 Admissions data**

Year	202019	202020	202021	202022	202023	202024	202025
IP	2115	928	1175	1661	1803	1811	1747

### ***Special initiatives***

#### ***PG seat enhancement***

Department is running MD courses from 2012 with 2 uptakes per year. From the year 2025, LOP from NMC has been received for enhancing the number of seats from 2 to 3.

#### ***Research Projects***

Last 5 years we had published 12 articles. Projects completed-4, Projects ongoing -6

(Including ICMR project on SARI-ARI project)

### ***Innovative Programs***

Training conducted for staff regarding airborne infection control measures. Fast tracking of patients with respiratory symptoms from reception implemented

### ***Any other achievements***

- First and second rank in KUHS PG examination held in 2021
- in 2024 our PG student received second prize in state level quiz program

### ***Key gaps/ future requirements***

- One assistant professor and the lecturer post are almost always vacant.
- Major equipments like Endobronchial Ultrasound is lacking.
- Support from Cardiothoracic department to do lung surgeries, Support from Oncology department for Radiation treatment for lung cancer, Support from interventional radiology for bronchial artery embolization in massive hemoptysis patients.
- Needs to start a course on Respiratory therapy

## **3. Department of Dermatology**

Introduction

Dermatology department, GMC Kannur is headed by professor Dr Rajiv S. Other faculty members are Dr Bifi Joy (Professor), Dr Anoop TV (Professor), Dr Pretty Mathew (Asst Professor) and Dr K Radhakrishnan (Lecturer). We have 3 post graduate seats in MD Dermatology each year.

### ***Equipments & Facilities***

1. Fractional CO<sub>2</sub> Laser
2. Diode Laser
3. Q switched Nd: YAG Laser
4. IPL (Intense pulsed light)
5. Excimer lamp
6. Radiosurgery machine

7. Cryotherapy unit
8. Wood's lamp
9. Phototherapy machines (whole body, hand-foot & targeted)
10. Microdermabrasion machine
11. Centrifuge
12. Iontophoresis machine
13. Microscopes
14. Dermoscope

### *Clinical services*

Conducts outpatient and inpatient service for Dermatology as well as STI and leprosy patients. Do procedures including skin biopsy, Laser treatment for hair reduction, pigmentation and scars, chemical peels, electro and radio surgery procedures, cryo therapy, phototherapy, excision surgery, nail, acne and vitiligo surgery, platelet rich plasma therapy, autologous serum test and therapy, immunotherapy, intralesional injections, and patch test.

### *Speciality clinics*

1. Leprosy clinic
2. STI clinic
3. Psoriasis clinic
4. Autoimmune blistering disease clinic
5. Connective tissue disease clinic
6. Pigmentary disease clinic

### *Operational statistics (2019 to 2025)*

**Table 3.3.5 Outpatient**

2019	2020	2021	2022	2023	2024	2025 (till Nov 30 <sup>th</sup> )
34052	10556	15380	28125	36370	38853	39389

**Table 3.3.6 Admission**

2019	2020	2021	2022	2023	2024	2025(till Nov 30 <sup>th</sup> )
219	52	37	1	12	98	84

**Table 3.3.7 Minor surgeries (Nail surgery, Acne surgery, vitiligo surgery, Excision)**

2019	2020	2021	2022	2023	2024	2025(till Nov 30 <sup>th</sup> )
168	28	45	190	212	240	235

***Special initiatives***

Conducted public awareness on skin health and topical steroid misuse and outreach programmes to create awareness regarding STIs, HIV and leprosy. Faculty members & PGs presented papers and invited lectures in various state, national & international conferences. Published 25 articles in indexed national & international journals from 2019 to 2025.

***Future requirements***

Infrastructure development like smart classroom, digital library and journal access, funding for academic activities like CMEs and invited lectures, infrastructure and funds for research projects and infrastructure improvements for dermatosurgery and cosmetology.

**4. Department of Psychiatry****Introduction**

The Department of Psychiatry at Government Medical College, Kannur provides comprehensive mental health services encompassing preventive, promotive, curative, and rehabilitative care. The department caters to a wide spectrum of psychiatric

disorders across all age groups and serves as a tertiary referral centre for the region.

In addition to clinical services, the department is actively involved in undergraduate and postgraduate teaching, training of interns, and capacity building of healthcare professionals.

The department also contributes to community mental health services in coordination with national and state mental health programmes.

### ***Equipment & Facilities***

The Department of Psychiatry is equipped with facilities required for effective outpatient and inpatient psychiatric care.

These include:

- Dedicated Psychiatry Outpatient Department (OPD)
- Inpatient psychiatric wards
- Interview and counselling rooms ensuring privacy and confidentiality
- Facilities for electroconvulsive therapy (ECT)
- Emergency psychiatric consultation services
- Psychological assessment and psychotherapy facilities
- Record maintenance and documentation facilities

### ***Clinical Services***

The Department of Psychiatry provides the following clinical services:

- General adult psychiatry services
- Child and adolescent psychiatric evaluation and management
- Geriatric psychiatry services
- Substance use disorder assessment and treatment
- Emergency psychiatry services
- Consultation–liaison psychiatry for other clinical departments
- Psychological therapies including supportive psychotherapy, cognitive behavioural therapy, and family therapy
- Pharmacological management of psychiatric disorders

### *Specialty Clinics*

The department conducts specialty-based clinics as per service availability, which may include:

- Child and Adolescent Psychiatry Clinic
- Substance Use Disorder Clinic
- Geriatric Psychiatry Clinic
- Memory Clinic

### *Operational Statistics*

**Table 3.3.8 OP-IP Data (2019 - 2025)**

YEAR	OP	IP Admissions
2019	16643	634
2020	6317	154
2021	7732	73
2022	11108	231
2023	12009	210
2024	13712	253
2025(Nov)	14163	305

### *Special Initiatives*

The Department of Psychiatry has undertaken several initiatives aimed at improving mental health awareness, early identification, and treatment accessibility. These include:

- Participation in National Mental Health Programme activities
- Community outreach and awareness programmes
- Training programmes for medical officers and allied health staff

- Mental health promotion activities in collaboration with other departments and agencies.

### ***Key Gaps / Future Requirements***

- Expansion of inpatient psychiatric facilities
- Strengthening of psychotherapy and rehabilitation services
- Additional human resources including psychiatrists, clinical psychologists, psychiatric social workers, and nursing staff
- Enhanced infrastructure for teaching and research activities
- Development of advanced subspecialty psychiatric services

## **5. Department of Obstetrics & Gynaecology**

### Introduction

Here by uploading the MCH documents in the department of OBG, GMC, Kannur

### ***Equipment & facilities***

**Table 3.3.9 Equipment & Facilities**

<b>Equipment</b>	<b>Numbers / functional status / comments</b>
1. Multiparameter Monitors	14
2. Pulse Oxymeters	18
3. Infusion pump	16
4. CTG Machines	8
5. USG – Portable / Non-portable	4
6. Colposcope	1

7. Laparoscope	2
8. Hysteroscope	2
9. Cryo/LEEP Cautery	1
10. Any other equipment	

### **Facilities -**

1. Emergency services - 24x7 casualty and emergency services including deliveries, emergency caesarean sections & laparotomy.
2. OPD & IPD care - Daily OPD services & general IP wards, single room pay wards
3. HDU & ICU care
4. Labour Room & Neonatal facilities
5. Maternity care approach - strict practice of respectful maternity care
6. Administrative services – Online booking for OPD appointments is available through e – health Kerala portal

### Ward Support Systems

- Central oxygen & suction pipeline.
- Bedside monitoring: pulse oximeters, BP monitors.
- Resuscitation trolleys.
- Separate patient/relative amenities.
- Infection Control & Housekeeping
- Colour coded waste segregation.
- CSSD support.
- Linen/laundry services.
- Labour Room & Delivery Facilities

- Labour Room Setup
- Number of labour rooms -3
- Number of delivery tables -3
- Dedicated emergency/eclampsia room.
- Privacy-ensured cubicles.
- Monitoring & Emergency Equipment
- CTG machines.
- Handheld Doppler's.
- Neonatal resuscitation tools.
- Emergency drug trolley.
- Staffing & SOPs
- 24×7 obstetrician availability.
- Anesthesia coverage.
- Protocols: partograph, blood transfusion, infection control.

#### Operating theatre facilities

##### OT Infrastructure

- Number of OTs allocated to OBG-2
- Dedicated Obstetric OT.
- Elective gynecology OT.
- Pre anesthetic clinic availability.

##### OT Equipment

- Anaesthesia machines.
- Multiparameter monitors.

- Ventilators.
- Electrosurgical units.
- Laparoscopic tower & instruments.
- Sterilization & Supply
- CSSD support.
- Instrument supply chain.
- Power backup.

#### Intensive Care & Neonatal Support

##### Maternal HDU/ICU

- Invasive monitoring.
- Ventilator support.
- Neonatal Intensive Care (NICU)
- NICU/SCBU bed strength.
- Incubators, warmers, phototherapy.
- Ventilators/CPAP.

##### Emergency Linkages

- Protocols between Labour room, ICU, NICU.
- Rapid transfusion pathway

##### Investigations & Diagnostics

##### Radiology

- 2D/3D/Doppler Ultrasound.
- X-ray, CT, MRI access.

##### Laboratory

- 24×7 clinical lab: hematology, biochemistry, coagulation.

- Pathology support: histopathology, cytology.
- Microbiology: cultures, sepsis workup.
- Hormonal assay availability.

#### Blood Bank

- Licensed blood bank with component separation.

#### Emergency cross match protocols

#### OPD

- Ultrasonography (In-house/Outsourced)
- Prenatal diagnostics (CVS, amniocentesis)
- Endoscopy (Laparoscopy/Hysteroscopy)
- LEEP/Cryotherapy
- Oncology referral/onsite services
- ART referral services

#### Teaching, Library & Academic Facilities

##### Teaching Facilities

- Seminar rooms.
- Simulation/skills labs.
- PG reading rooms.

##### Library & e-Resources

- Updated books and journals.
- Internet/PubMed access.
- Academic logs (JC, seminars).

##### Research Support

- Institutional Ethics Committee.

- MEU activities.
- Central research lab facility.

#### Support Services & Staff

#### Human Resources

- Faculty: Professors, Associate Professors, Assistant Professors.
- Residents: Senior & Junior.
- Nursing & paramedical staff.

#### Hospital Infrastructure

- Oxygen/suction systems.
- CSSD.
- Power backup.
- Laundry, dietary, ambulance.

#### Accommodation

- PG hostels.
- Staff quarters.

#### Clinical Services

##### Wards & Units

- Antenatal wards:
- Postnatal wards: breastfeeding support zones, neonatal linkages.
- Gynecology wards:
- High risk pregnancy ward: monitoring facilities
- Observation / short-stay wards.

#### Intrapartum care with 24x7 Labour room services

- Emergency obstetrics care including management of PPH, eclampsia, sepsis and obstetrics emergencies.
- Operative obstetrics including cesarean sections and instrumental deliveries

#### Major Gynecological Surgeries Performed

- Abdominal hysterectomy (TAH, TAH+BSO, STAH)
- Vaginal hysterectomy with/without pelvic floor repair
- Laparoscopic hysterectomy (LAVH)
- Myomectomy
- Ovarian cystectomy (open/laparoscopic)
- Oophorectomy/salpingoophorectomy
- Ectopic pregnancy surgeries
- Pelvic organ prolapse repairs
- Endometriosis surgeries
- Gynaec oncology surgeries (staging laparotomy)
- Tubectomy (interval/postpartum)
- Diagnostic & operative laparoscopy
- Diagnostic & operative hysteroscopy
- Minor procedures (D&C, evacuation, MVA, biopsy)

#### Speciality clinics

##### Integrated OPD Specialty Clinics

- High Risk Pregnancy Clinic
- Infertility & IUI Clinic
- Menopause & Well Women Clinic
- Gynaec Oncology & Colposcopy Clinic

- Adolescent Gynecology Clinic
- Family Planning (IUCD, sterilization counseling)
- Postnatal clinic

Operational statistics

**Table 3.3.10 Operational statistics on OP, IP, & Others**

Year	OP	IP	MINOR	MAJOR
2019	33687	6326	848	2148
2020	14616	4115	439	1473
2021	16657	3847	1027	1318
2022	26813	4935	1755	2004
2023	27573	4026	2294	1733
2024	26630	3811	2732	1404
2025 (NOVEMBER 30)	27347	3582	2811	1384

***Special initiatives***

- Regular Antenatal classes twice a month – For Antenatal patients
- Breast feeding Awareness Program at GMC Kannur
- Adolescent Awareness classes and Health Education at various private and Government schools Kannur
- Gynecological Health Awareness class at Payyanur
- Breast Cancer and Cervical Cancer Awareness class at Women’s jail, central prison, Kannur April 2019

- f. Know your Body and know your Mind, Health Awareness Program at Women's college, Kannur
- g. EAGLE – Live endoscopy work shop conducted in the month of October 2025.
- h. Cervical cancer screening camp at Ezhimala Naval Academy

## **6. Department of Paediatrics**

### Introduction

The Department of Paediatrics at Government Medical College, Kannur, is a well-established academic and clinical department committed to providing comprehensive child health care services, undergraduate and postgraduate medical education, and clinical training. The department is headed by Dr. Mohammad MTP, who provides academic leadership and administrative guidance.

The department has a total bed strength of 80 beds and functions through two clinical units along with a dedicated Newborn Unit, ensuring comprehensive care for neonates, infants, children, and adolescents.

The department is supported by a qualified and experienced faculty comprising four Professors, two Associate Professors, two Assistant Professors, and 2 Senior Lecturers, along with three Senior Residents, ensuring effective teaching, patient care, and research activities.

The Department of Paediatrics is actively involved in postgraduate training, currently admitting two postgraduate students per year, with a planned increase to four postgraduate students per year from 2026, in line with institutional growth and academic expansion. Through its clinical services, teaching programs, and commitment to excellence, the department plays a vital role in advancing paediatric healthcare and medical education in the region.

**Equipment and facilities:****Table 3.3.11 PICU – NICU details**

	Average bed occupancy	80%
	Available equipment	<ul style="list-style-type: none"> <li>• Ventilators-4</li> <li>• Monitors-12</li> <li>• Defibrillators-1</li> <li>• HHHFNC-3</li> <li>• CPAP-1</li> <li>• BiPAP machines-1</li> </ul>
	No. of beds:	28
<b>NICU</b>	Average bed occupancy	100%
	Available equipment	<ul style="list-style-type: none"> <li>• Neonatal Ventilators-10</li> <li>• Monitors-30, HHHFNC-2</li> <li>• CPAP-4</li> <li>• HFOV-1</li> <li>• Warmers-30</li> <li>• Transport</li> </ul>

**Table 3.3.12 Equipments List - available and functional status**

<b>Multipara Monitors</b>	<b>Available &amp;functioning</b>	<b>Pulse Oxymeters</b>	<b>Available &amp;functioning</b>	<b>Syringe pump</b>	<b>Available &amp;functioning</b>
		Ventilator	Available &functioning		
		ECG	Available &functioning	USG	Available &functioning
		CPAP	Available &functioning	Defibrillator	Available &functioning
Resuscitation kit	Available &functioning	Crash cart	Available &functioning	Transport Incubator	Available &functioning
Phototherapy Units (CFL & LED)	Available &functioning			Stadiometer / weighing scale	Available &functioning
Radiant warmer	Available &functioning	ABG machine	Available &functioning		

Clinical Services in department

- OPD services operate daily from 8:00 a.m. to 3:00 p.m.

- 24-hour casualty and emergency services are available.
- Continuous medical coverage is ensured by in-house interns, Junior residents, and a Duty Medical Officer on a 24-hour basis.
- Inpatient services include intensive care facilities.
- Attached paediatric surgery
- Neonatal Intensive Care Unit (NICU) services function round the clock.
- Specialty clinics are conducted regularly.
- E-Sanjeevani OPD daily online

**Table 3.3.13 Dept. of Paeds statistice during previous 3 years**

Parameters	2023	2024	2025
Total number of patients in OPD	22859	25988	25064
Total number of patients in IPD	4891	4464	4149
Weekly clinical work load for OPD	456	522	504
Weekly clinical work load for IPD	91	84	79
Average daily investigative workload of the Department and its distribution	10	9	8
• Radiology (Per day)	78	67	70
• Biochemistry	20	18	16
• Pathology	5	4	5
• Microbiology			

*Specialty clinics***Table 3.3.14 Specialty Clinics in Paediatrics**

Sl.No.	Name of the Clinic	Days on which held	Timings	Average No. of cases attended
1	Paed.Cardiology	All Tuesdays	9am-11am	6-8
2	Paed. Nephrology	Monday/ Wednesday	9am-12pm	3
3	Paed. Endocrine	Friday	9 am – 2pm	30
4	Paed. Haematology	Saturday	9am-11 am	5-6
5	Paed.Gastro (Diarrhoea)	Monday to Saturday	9am -2 pm	
6	Paed.Neurology	Tuesday and Thursday		
7.	Neonatology	Monday to Saturday	8 am – 11am	20
	(i) High Risk Newborn (ii) Well baby clinic			10
8	Immunisation	Wednesday/ Saturday	8 am-1pm	25

9	Paed. Asthma	2 <sup>nd</sup> and 4 <sup>th</sup> Saturday	9am -11 am	10
10	Thalassemia	Saturday	9 am -11 am	3-4
11	Genetic Clinic	Wednesday	11am-1pm	2-3

### *Operational statistics*

Outpatient

**Table 3.3.15 Out patient number 2019-2025 Nov**

Year	OP
2019	34438
2020	9513
2021	8213
2022	22859
2023	25988
2024	25064
2025 (Upto Nov.)	23699

Admissions

**Table 3.3.16 IP admissions 2019-2025 Nov**

Year	IP
2019	5890
2020	3954

2021	3567
2022	4891
2023	4464
2024	4149
2025 (Upto Nov.)	3770

***Special Initiatives:***

Paediatric Rehabilitation Clinic on first Saturday of every month involving PMR department

***Key Gaps/Future requirments***

- Separate IMCH building for comprehensive MCH Care.
- Proposal for Comprehensive Lactation Management centre (CLMC)
- Recognition as hemophilia treatment centre (HTC).
- Proposal Regional Early intervention centre.
- Inhouse clinical psychologist and speech therapist.

**7. Department of General Surgery**

**Introduction**

Available equipments & facilities in the department of General Surgery are listed below

**Table 3.3.17 Equipment & Facilities**

Category	Item Description	Quantity	Functional Status
OT Table	TRISCO	2	Working
	PSI	1	Working
Electro Cautery	ERBE VIO	2	Working
	Megadyne Electrosurgical Generator	1	Working
	Volkman Quick Seal	1	Working
Laparoscopic System	KARL STORZ Endoscopic System	1	Working
	STRYKER Endoscopic System	1	Working
Energy Devices	Ultrasonic Harmonic Scalpel & Accessories	1	Working

Laser System	Bioluminous Diode Laser MS 1470 (Asthika Health Care)	1	Working
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*In Surgical ICU*

S.No.	Item Description	Quantity	Functional status
1	USG machine	2	1 Working
2	Video Laryngoscope	1	Not working
3	ICU cot	12	
4	Spot light (LED)	1	
5	Crash Cart	2	
6	Infusion pump	10	
7	Ventilator	6	
8	O2 flowmeter (Centralized)	15	10 working
9	Suction apparatus (mobile)	4	2 working
10	Cardiac table	17	10 working

11	BP apparatus (Digital)	3	
12	Portable ventilator	1	
13	Syringe pump	10	9 working
14	Multipara monitor	12	
15	Bed side locker	12	
16	Water purifier	1	
17	Air cooler	1	
18	Fumigation machine	1	

***In Burns ICU***

No.	Equipment Name	Quantity	Functional Status
1	Ventilator	1	Functional
2	Cardiac Monitor	3	Functional
3	O <sub>2</sub> Flow Meter	1	Functional
4	Central Suction	2	Functional
5	Stethoscope	1	Functional

6	Bed [Hospital Cot]	3	Functional
7	Ambu Bag	1	NOT WORKING
8	E.T. Tube Stylet	1	Functional
9	Nebulizer	1	NOT WORKING
10	Laryngoscope	1	Functional
11	B.P. Apparatus	1	Functional
12	Glucometer	1	Functional
13	Syringe Pump	2	1 Working / 1 NOT WORKING
14	Infra-red Thermometer	1	Functional
15	Bin	3	Functional

### *Department Facilities*

1. Outpatient care
2. In patient care
3. Intensive care Unit
4. Major & Minor Operation Theatre
5. Laparoscopic & Minimal Access Surgery
6. Upper & Lower GI Endoscopy

7. Laser and Minimal Access Proctology

8. Departmental Library

**Table 3.3.18 clinical services**

UNIT	Monday	Tuesday	Wednesda y	Thursda y	Friday	Saturday
S I	OP	Ward	OT	Ward	Alternate week OP	Alternate week OT
S II	Ward	OP	Ward	OT	Alternate week OP	Alternate week OT
S III	OT	Ward	OP	Ward	Alternate week OT	Alternate week OP
S IV	Ward	OT	Ward	OP	Alternate week OT	Alternate week OP

**Table 3.3.19 Operational Statistics (2019-2025)**

	2019	2020	2021	2022	2023	2024	2025 (Till Nov 30)
Out Patient	1960 8	8257	1376 6	25542	30158	29650	28202
Admissions	2376	1288	1917	2941	3276	3176	2991

Surgeries	Major	554	263	476	1181	1138	1009	1001
	Minor	799	134	179	591	673	588	490

### ***Special Initiatives***

1. Laser proctology Workshop on 26/06/2025.
2. Endoscopy Installation on 16/10/2025.

### ***Key Gaps/ Future Requirements***

Laser Equipment for Varicose vein treatment (future requirement)

## **8. Department of Orthopaedics**

### **Introduction**

The orthopaedics department was started in GMC Kannur from 1995, UG students were trained from the same year and later in 2012 PG seats were introduced.

We have been doing arthroplasty from 1998 and arthroscopy from 2002 and we have had as steady growth since then. We have had an increase in trauma cases in the last few years as well.

### ***Equipment and facilities***

- a. Department equipped with the latest C-Arm image intensifier, Arthroscopy, Power drills
- b. Well equipped Orthopaedics Operation Theatre.
- c. Central Monitoring system.
- d. Ventilatory care.

### ***Clinical services***

- e. Trauma care unit

- f. Joint replacement - Hip, Knee
- g. Arthroscopy - Diagnostic & Therapeutic
- h. Spine Surgery - Fixation, Deformity correction and treatment of IVDP (Disc), Percutaneous Spine Fixation, Cervical spine anterior and posterior fixation
- i. Comprehensive Trauma Management
- j. Paediatric Orthopaedics
- k. Tumor Management - Limb salvage surgeries, Orthopaedic onco-surgeries including custom made implants

***Speciality clinics-***

- Spine, Deformity and Trauma clinics

**Table 3.3.20 Operational statistics**

YEAR	OP	IP	MAJOR SURGERY	MINOR SURGERY
2019	33272	1653	828	1016
2020	13500	967	574	572
2021	17861	964	530	548
2022	20325	1219	657	556
2023	34658	1512	871	552
2024	41174	1669	970	557
2025	44727	1648	1065	346

***Special initiatives:*** Inauguration of E library, smart classroom, seminar hall

***Key gaps/Future Requirements:***

- We have staff inadequacy and deficiency of units,
- We need to have more staff and atleast 3 units for us to function in an organised and planned manner and to focus more on academics.

**9. Department of Otorhinolaryngology (ENT) and Head and Neck Surgery****Introduction**

The Department of Otorhinolaryngology (ENT) and head and neck surgery at Government Medical College, Kannur was established in 1995 and has been an integral part of the institution since its inception. The department has consistently contributed to medical education by providing comprehensive undergraduate (UG) and postgraduate (PG) teaching in Otorhinolaryngology. With a strong emphasis on academic excellence and clinical training, the department is actively involved in teaching, training, and research. In addition to its academic role, the department plays a vital role in patient care and clinical services. It provides comprehensive diagnostic, medical, and surgical care for a wide range of ear, nose, throat, head, and neck disorders. The department conducts regular outpatient and inpatient services, emergency care, and specialized procedures, ensuring quality and compassionate care to patients from both urban and rural populations. Through its integrated approach to education and service, the department remains committed to delivering high-quality healthcare while training competent and skilled ENT professionals.

***Equipment and facilities***

The Department of Otorhinolaryngology (ENT) and head and neck surgery at Government Medical College, Kannur is well equipped all necessary equipments and machinery for the management all minor and major ENT and Head and procedures as listed below

**Clinical Facilities and Equipment****Outpatient Department (OPD)**

- ENT examination units with headlights

- Oscopes (battery-operated and wall-mounted)
- Tuning forks (256, 512, 1024 Hz)
- Daily OPD ENT instruments
- Rigid endoscopes (0°, 30°, 70°)
- Suction apparatus
- Syringing apparatus

#### Audiology and Diagnostic Services

- Pure Tone Audiometer
- Speech Audiometry setup
- Tympanometer / Impedance Audiometer
- Otoacoustic Emission (OAE) equipment
- Brainstem Evoked Response Audiometry (BERA)

#### Inpatient and Ward Facilities

- Dedicated ENT inpatient ward (male/female)
- Emergency ENT care facilities
- Patient monitoring equipment
- Oxygen supply and suction facilities
- Dressing and procedure rooms

#### Surgical Facilities and Equipment

##### Operation Theatre (ENT OT)

- Operating microscope
- Endoscopic sinus surgery (FESS) set
- Rigid endoscopes (0°, 30°, 45°, 70°)
- Endoscopic camera system with monitor

- Microdebrider
- Powered drill system
- Advanced Bipolar and monopolar cautery units
- Tracheostomy sets
- Thyroidecomy set
- Advanced Head and neck surgery instruments
- Tonsillectomy and adenoidectomy instruments
- Septoplasty and rhinoplasty instruments
- Mastoidectomy and middle ear surgery sets
- Laryngoscopy and bronchoscopy sets
- Foreign body removal instruments

#### Emergency ENT Services

- Tracheostomy trolley
- Emergency airway management equipment
- Epistaxis management sets
- Emergency suction and oxygen facilities

#### Academic Facilities

- Lecture hall with audiovisual aids
- LCD projector and sound system
- Demonstration rooms
- Seminar room
- Departmental library with ENT textbooks and journals
- Computer with internet access

#### Research and Academic Support

- Facilities for clinical research and thesis work
- Data recording and analysis support
- Ethical committee access
- Journal club and academic meeting facilities

### *Clinical Services*

- Daily outpatient services
- Daily ENT emergency services
- Advanced ENT and head and neck surgery OT services as listed below
- Head and neck Surgeries: Total Laryngectomy, Neck dissections, Flap reconstruction, Tracheo esophageal puncture, Total / hemi thyroidectomy, Parotidectomy, Drainage of Neck Abscesses, Neck wound explorations, Management of neck trauma
- ENT Surgeries: Mastoidectomies, Tympanoplasty, Stapedectomy, FESS, Microlaryngeal surgeries, All other Endoscopic surgeries, Septal surgeries, Nasal bone Fracure reduction, Tonsillectomy, Adenoidectomy, Direct Laryngoscopy, Hypopharyngoscopy, Oesophagoscopy, all other minor ENT surgeries
- Procedures: Videolaryngoscopy, Diagnostic nasal endoscopy, Epley's manoeuvre & other minor ENT procedures
- Audiology & Speech Therapy: Pure Tone Audiometry, Otoacoustic Emission, Brain stem Evoked Response Audiometry, Speech evaluation and voice therapy, Swallowing therapy
- Head and neck onco surgeries and reconstructive surgeries and voice rehabilitation surgeries.

### *Speciality clinics*

- Headache clinic,
- Vertigo clinic,
- Rhinology clinic,
- Cancer clinic

**Operational statistics****Table 3.3.21 Operational statistics**

	2019	2020	2021	2022	2023	2024	2025(- nov)
OUTPATIENTS	2852 2	9391	13234	2276 9	2677 7	2663 8	27363
ADMISSIONS	1100	310	362	446	1031	765	396
SURGERIES (MAJOR/MINOR )	276/ 3668	107/ 975	154/ 2521	228/ 6617	319/ 5560	273/ 1901	181/ 1179

**Special initiatives:** Conducting camps for screening hearing/ENT problems

**Key gaps/future requirements**

1. Planning to implement Cochlear Implantation Programme in future once the infrastructure, manpower and necessary training is obtained.
2. Planning to implement advanced ENT surgeries like COBLATOR assisted surgeries, Endoscopic ear surgeries & LASER surgeries once necessary infrastructure is procured
3. Upgrading the current HD endoscopy system to 4k advanced endoscopy unit.
4. Planning to start specialty clinic like Sleep apnea Clinic
5. Improving OPD work flow once E-Health software is fully implemented.
6. Setup an advanced UG/PG classroom with research lad and digital library integrated
7. Digitalizing Endoscopic reports
8. Plan to conduct Regular CME programmes/workshops for students and faculty

**10. Department of Ophthalmology****Introduction**

The Ophthalmology department commenced in this institution (erstwhile Academy of

Medical Sciences ACME) in the year 1994 with a mega eye camp conducted by Aravind Eye Hospital, Madurai. From then onwards we slowly developed our department in patient care, teaching, research and faculty development. In the year of 1995, we started conventional extracapsular cataract surgery (ECCE) with intraocular lens implantation. At present we are doing phacoemulsification with foldable intraocular lens implantation under topical anaesthesia and glaucoma surgery. We are also taking care of paediatric population by doing ROP screening, paediatric cataract surgery, horizontal squint surgery etc. Ours is the prime institute doing maximum number of ROP screening in northern Kerala. We are also having strong experience in managing emergency and trauma care unit in Ophthalmology for the last 28 years. We also conducted a workshop on phacoemulsification and a mega eye camp in 2003 with more than 1000 out patients and did cataract surgery for the needy at the time of our phacoemulsification unit installation. Lastly during COVID-19, we managed all the mucormycosis orbit with adequate treatment and exenteration in needed cases.

**Table 3.3.22 Equipment and facilities**

<b>Sl. No.</b>	<b>Equipment and facilities</b>
<b>1</b>	<b>Cataract</b>
1	Operating Microscope
2	Ultrasound A Scan
3	Ultrasound B Scan
4	Ultrasound AB scan
5	Keratometer
6	Phaco emulsification machine
<b>2</b>	<b>Cornea and Refractive surgery</b>
1	Pachymeter

2	Facility for amniotic membrane harvesting and storage (Deep freezer at -80 ° C)
<b>3</b>	<b>Vitreo-retina&amp; Uvea</b>
1	Indirect Ophthalmoscopes
2	Fundus Camera (Not working)
3	Fundus fluorescein angiography (FFA) (Not working)
4	Optical Coherence Tomography (OCT)
5	Vitrectomy machines
6	Nd YAG laser for capsulotomy
7	Lenses for laser
8	Laser Indirect Ophthalmoscopy (Not working)
9	Retinal green laser (Not working)
10	Cryophotocoagulation
<b>4</b>	<b>Glaucoma</b>
1	Gonioscope (Goldmann 3 mirror)
2	Non-contact tonometer
3	Applanation tonometer in all slit lamps
4	Pachymetry
5	Standard Automated perimeter with normative database and progression analysis software
6	Fundus camera (Not working)
<b>5</b>	<b>Paediatric Ophthalmology, Squint and Neuro-</b>

	<b>ophthalmology</b>
1	Indirect Ophthalmoscope
2	Synaptophore
3	Red green goggles
4	Hess chart
5	Prism Bar
6	Maddox wing/ Maddox rod
7	VER
8	Portable fundus camera

**Table 3.3.23 Clinical services**

<b>Sl. No.</b>	<b>Clinical services</b>
1	GeGeneral ophthalmology consultation
2	ReRefraction and visual acuity assessment
3	Tonometry
4	Dilated retinoscopy and refraction
5	Fundus examination
6	Cataract evaluation and surgery- MSICS, Phacoemulsification +IOL
7	Squint evaluation and surgery
8	Lid anomalies evaluation and management (Ptosis, ectropion, entropion etc)
9	Retinopathy screening for systemic diseases
10	Intravitreal injections

11	ROP screening
12	Glaucoma screening
13	Glaucoma evaluation, surgeries and laser therapies
14	Specialised diagnostics- OCT, Perimetry, Pachymetry, Biometry, VEP
15	Dr Eye disease evaluation and management
16	NL Obstruction surgeries- DCR
17	<p>Minor procedures-</p> <ul style="list-style-type: none"> <li>• Foreign Body Removal (corneal/conjunctival)</li> <li>• Epilation / Lash Treatments</li> <li>• Tarsorrhaphy</li> <li>• Chalazion Excision</li> <li>• Lacrimal Procedures (syrringing &amp; probing)</li> <li>• Minor Eyelid Surgeries</li> <li>• Sub-conjunctival Injections</li> </ul>
18	<p>Emergency Care</p> <ul style="list-style-type: none"> <li>• Trauma Management (chemical burns, blunt/penetrating injuries)</li> <li>• Acute Red Eye / Pain Management</li> <li>• Sudden Visual Loss Evaluation</li> <li>• Acute Glaucoma Management</li> <li>• Emergency Surgical Interventions like corneal tear repair, evisceration, exenteration</li> </ul>

**Table 3.3.24 Specialty clinics**

Sl. No.	Specialty Clinics
1	Glaucoma Clinic

2	Retina and Vitreoretinal Surgery Clinic
3	Refraction Clinic
4	Squint Clinic
5	Paediatric Ophthalmology
6	ROP Clinic
7	Uvea and Medical Retina
8	Cornea and Ocular Surface

**Table 3.3.25 Operational statistics (2019- 2025)**

Year	Outpatient	Admissions	Surgeries	
			Major	Minor
2025	26070	1328	283	960
2024	23771	1457	258	991
2023	24003	1387	285	714
2022	20795	1375	227	448
2021	11587	996	56	403
2020	8911	796	105	121
2019	25193	1741	415	420

***Special initiatives***

- Educating and creating awareness for ROP prevention and screening.
- Annual screening initiatives for diabetic and hypertensive retinopathy prevention and treatment.
- Early screening and baseline workup of glaucoma and proper monitoring.

- School camps for early onset refractive error assessment.

## 11. Department of Radiation Oncology

### Introduction

The Department of Radiotherapy at Government Medical College, Kannur provides cancer care for patients from Kannur and the surrounding districts.

This document outlines the existing infrastructure, clinical services, and operational statistics of the department. It also highlights future requirements aimed at strengthening delivery service, optimising resources, and meeting the growing demand for radiotherapy services in the region.

### Equipments

This department was previously equipped with a telecobalt machine and HDR brachytherapy since 1998. At present department is not having any form of radiation machine for past 5 years. Detailed proposal for Linear accelerator given.

### Facilities

- OP services from Monday to Saturday
- Daycare chemotherapy facilities- IV and IM chemotherapy- Monday to Saturday
- Supportive care

### Operational statistics

- OPD Cases

**Table 3.3.26 No of Patients with Radiotherapy Machine**

Year	Average number of patients per year
2019	7074

**Table 3.3.27 No of Patients without Radiotherapy Machine**

Year	Number of patients
2022	4974
2023	4736
2024	4396
2025	4290

**Table 3.3.28 Daycare cases**

Category	Number of patients				
YEAR	2021	2022	2023	2024	2025
DAYCARE	788	960	972	843	985

***Special Initiatives***

- Academic Programs -7
- Publications-6
- Training programs conducted-
- Radiation Physics for MD course – for various PG courses
- 200 hrs of classroom teaching for DRT students/ year
- Radiation safety training for DCVT students – 6 classes since 2019
- Training programs for nursing and pharmacology students in chemotherapy
- Patient or public awareness programs participated-
- Cancer campaign- Arogyam Anandam in association with OBG
- World cancer day observed
- Academic- in addition to teaching
- Cancer awareness classes
- Providing safety training prior to issuance of personnel monitoring devices.

- ONCUREA CME conducted by nursing college in association with dept of radiotherapy regarding special procedures in Radiotherapy
- Radiation safety training for clinicians & Radiographers DH Kanhangad 2021
- Radiation safety training for clinicians & Radiographers DH Kasargod 2023

### *Other Initiatives*

- HDR Brachytherapy under the process of installation
- Proposal for LINAC submitted- under the process of consideration
- Submitted a detailed project proposal for upgrading radiotherapy department of this institution to a Tertiary Cancer Centre.
- Successful completion of AERB inspection for Radiotherapy & Diagnostic Radiology departments October 2020. No non compliances were observed.

### *Key gaps and future requirements*

Govt. Medical College, Kannur caters to the need of 4 northern districts of Kerala. Cancer cases are on the rise in Kerala, as in the rest of India. There is only one center at present catering to the needs of cancer patients from Kannur, Kasargode, parts of Wayanad and northern part of Kozhikode. However, due to the excessive patient load, there is a long waiting period for these patients. We are forced to send the patients to other parts of Kerala which results in delays of treatment. This leads to a reduction of chances for cure of their cancer. The patients, along with their families have to travel far off distances, stay there for a prolonged period and get treatment, this results in not only delay in treatment but also huge financial burden to the families in the form of loss of their daily income and the expense for boarding and lodging. Many patients then opt for private hospitals in Mangalore which are very expensive, leading to the loss of their land and properties which is unfortunate for the poorest of poor patients.

The installation of the new linear accelerator can treat up to 80 patients each day. With this machine the waiting period for cancer patients for starting radiation can be avoided permanently, thereby saving many patients and their families, both socially and economically.

## **12. Department of Physical Medicine and Rehabilitation**

### Introduction

Lone PMR Department catering to the population of Kannur, Kasargod and part of Wayanad District. Looking after the health and welfare of the differently abled population.

### ***Equipments and Facilities:***

#### Major Equipments:

The department possesses a musculoskeletal ultrasound machine (₹13,90,000) and a Shoulder Continuous Passive Motion machine (₹6,15,000). The physiotherapy section and procedure room have 15 different equipments, each costing less than ₹1,00,000. The Hand Rehab system cost ₹120000.

#### Facilities:

Outpatient services are available Monday through Saturday, with minor procedures performed daily. Ward consultations are conducted daily, and three special clinics are held weekly. A medical board meets once a week. The Paediatric Rehabilitation clinic is held on the first Saturday of each month in collaboration with the Paediatrics and Orthopedics Departments.

### ***Clinical services:***

Daily OPD services and ward consultations

- Medical boards once a week. Special Medical Boards every fortnightly.
- 3. Paediatric Rehabilitation Clinic: On first Saturday of every month

Specialty clinics: Paediatric Rehabilitation clinic, first Saturday of every month

Table 3.3.29 Operational statistics

Year	Outpatient			Admissions	Surgeries
	OP	Ward Consultations	Total		
2019	40	2412	22	0	0
2020	299	646	945	0	0
2021	1111	340	1451	0	0
2022	4644	420	5064	0	0
2023	5488	720	6208	0	0
2024	7913	1080	8993	0	0
2025(till Nov)	8285	1140	9425	0	0
Paediatric rehab clinic 2025	29				

### *Special Initiatives*

- The Paediatric Rehabilitation Clinic was established in August 2025.
- PMR day was celebrated on 6<sup>th</sup> July 2025.

- International Day of Persons with disability: Our department conducted it as week-long celebrations with patient awareness classes
- The department employs interactive teaching-learning sessions, including role-playing. Patient and caregiver awareness classes are also conducted.
- Conducted 2 CMEs in 2025:
- CME on acute neurorehabilitation, on 1<sup>st</sup> June 2025, at Thanal Brain and Spine Medcity.
- Regain 25, CME on Traumatic brain injury rehabilitation, on 29 and 30<sup>th</sup> November 2025 at Marmara Beach House, Payyambalam and workshop at Thanal Brain and Spine Medcity.

### ***Key Gaps***

- Lack of infrastructure and manpower. Op facilities, staff rooms etc need to be upgraded and organized. Not even a separate room for Head of Department.
- No IP facilities, No Zonal limb fitting centre.
- There is only one Professor and one assistant post .One associate and one asst professor posts are needed for better functioning and patient care.
- There are no PG seats at present.
- No occupational therapy section is available in the Department.
- The Department has requested additional space for patient care, inpatient wards, a zonal limb fitting center, and the establishment of PG seats and also given proposal for stroke rehabilitation unit already.

## **13. Department of Emergency Medicine**

### **Introduction**

The Department of Emergency Medicine, Government Medical College Kannur, established in 2010, one of the pioneer academic emergency departments of the country provides 24×7 emergency medical services for patients with acute medical, surgical, trauma, paediatric, obstetric emergencies and disaster management. This institution is strategically placed near NH 66 and Naval Academy. The department ensures prompt triage, stabilization, and coordination with all specialties for

definitive care based on latest standard guidelines. Faculties of this department is engaged in national, international policy making and also as NBE examiners and assessors for various examinations. This has been centre for various DNB exams. Department has also contributed to UG & PG medical education, training, and emergency & preparedness, public health training while adhering to standard treatment protocols and patient safety measures.

The Department has MD Emergency Medicine post-graduation training from 2012 onwards with an alumnus of 30 illustrious emergency physicians all over the world.

### *Equipment & Facilities*

**Table 3.3.30 Equipment list of Emergency Medicine Department**

SL No	Name of Vital Equipment	Availability
1	Portable USG Machine	2
2	Defibrillator	5
3	Video Laryngoscope	4
4	Electrical Suction Apparatus	1
5	Vein Detector	1
6	Mobile Spot Light	6
7	Crash Cart	10
8	High-end Ventilators	8
9	Transport Ventilator	2
10	NIV - Bipap	2
11	Portable X-ray Machine 100mA	2

12	CR System	1
13	LED Apron	9
14	Bronchoscope (Rigid)	1
15	Video Bronchoscope	2
16	High-end -Multi-Para-Monitor	7
17	Basic - Multi-Para-Monitor	17
18	Rotem Delta System Row	1
19	Patient warmer	1
20	Mechanical CPR machine	3
21	Diathermy Surgical	1
22	Nebulizer Ultra sonic	1
24	Pulse Oxy meter	4
25	6 KV UPS with Power Back	1
26	Chest Drain and Needle Decompression Trainer	2
27	Central Venous Cannulation Simulator	2
28	High Fidelity Manikin With 12 Accessories	1
29	Infant CPR Manikin	4
30	Multi Venous IV Training Arm	4

31	Dell Monitor 24 LED	1
32	Adult CPR Trainer	4
33	Suturing Pad	3
34	Adult Manikin	6
35	Little Anne	1
36	Baby Anne	6
37	Adult Airway Management Trainer	6
38	Paediatric Intubation Trainer	6
39	Projector	2
40	Printer Scanner	1
41	Monitor View Sonic LED 27	1
42	AED Trainer	5
43	Trauma Trainer Simulator	1
44	Interactive Pannel with Accessories	1
45	USG Machine	1
46	Labor Set	2
47	Infusion Pump	10
48	Nebulizer	6
49	ECG Machine	1

50	OT Light (Shalya)	1
51	Endoscope Drying Unit	1
52	Laryngoscope Fiber- Optic	2
53	Laryngoscope LEG	1
54	Slit Lamp with Applanation Tonometer	1
55	Dual Chamber Temporary Pace maker	1
56	Vacuum Cleaner	1
57	Blood Mixer	1
58	USG Machine Wipro GE	1
59	Aerogen (Ventilator Nebulizer)	1

**Table 3.3.31 Facilities**

Available Space	900 Sq. Meter
No. of beds	40
Equipment(s)	175
Available staff (Medical/Paramedical)	26
No.,of cases (Average daily)	240

attendance of patients)	
Investigative facilities available (round the clock)	CT, X Ray, MRI, ABG, Cardiac Markers, Biochemistry, Microbiology, Blood gas analysis, USG, Portable X Ray
Facilities available	Resuscitation area, yellow area, Minor OT, ICU, Triage, observation ward, Control Room, Police Aid post, Counselling room.
Human Resources	PG Faculty, SRs, PGs, NAJRs, Nursing Officers, Supporting Staffs.

### *Clinical Services*

The Emergency Department provides comprehensive **24×7 emergency care** for patients presenting with acute medical, surgical, trauma, paediatric, and obstetric conditions. Services include rapid triage, initial resuscitation, stabilization, and ongoing emergency management.

The department manages cardiac emergencies, cerebrovascular events, respiratory emergencies, sepsis, poisoning, trauma and polytrauma cases, and other life-threatening conditions. Emergency procedures such as airway management, advanced cardiac life support, trauma resuscitation, wound management, fracture stabilization, paediatric & neonatal resuscitation, pain management including POCUS guided nerve blocks and emergency imaging and laboratory coordination are routinely performed.

Close coordination is maintained with all clinical specialties, operation theatres, blood bank, and diagnostic services to ensure timely definitive care and appropriate admissions or referrals

**Operational Statistics (Tables, 2019- 2025 Dec data)****Table 3.3.32 Operational Statistics (2019- 2025 Dec)**

S.No.	Parameters	Year (2019)	Year (2020)	Year (2021)	Year (2022)	Year (2023)	Year (2024)	Year (2025)
1.	Total number of patients in OPD	59822	61236	58059	66020	57010	84460	81565
2.	Total number of patients admitted (IPD)	18810	26225	17315	24056	21280	21278	18396

**Special Initiatives.**

Department has NMC recognized PG teaching programs from 2012. Does all the institutional basic life support programs for various courses and employes. In addition to this the department initiates community oriented basic life support programs in the districts nearby.

**Glimpses**

1) Mass BLS session on World heart day'2025 (29 September 2025): Over 1000 people are trained in BLS in a one-day training session conducted at Government medical collage Kannur.



2) Observed CPR awareness week (13 to 17 October,2025) conducting multiple BLS sessions for public along with poster presentation competition involving students and junior doctors from different specialties.



### ***Key Gaps / Future Requirements***

Increasing patient load as facilities increase. Need expansion in area, equipment, facilities, man power in near future.

Creation of additional faculty posts and senior residency post for increasing PG seats

## **14. Department of Cardiology**

### **Introduction**

Government Medical College Kannur (formerly Academy of Medical Sciences,

Pariyaram) is a major super-specialty government medical institution in North Kerala, originally established as a medical college under the cooperative sector. From its early years itself, the Department of Cardiology emerged as a major attraction of the institution, gaining statewide recognition for advanced cardiac care. Since the government takeover, the institution has continued to grow as a Centre of Excellence in tertiary healthcare delivery and medical and para-medical education, serving the population of Kannur, Kozhikode, Kasaragod, and Wayanad districts. Equipped with two cardiac catheterization laboratories, the Department of Cardiology provides 24×7 emergency angioplasty services, regular outpatient care, and postgraduate training including a DM Cardiology seat. Despite a significant reduction in senior faculty strength following the takeover in 2019, patient inflow has increased substantially due to expanded government-sponsored treatment schemes, resulting in increased clinical and academic workload. The enduring legacy of GMC Pariyaram as a premier cardiology centre in Kerala continues to the present day, underscoring the urgent need for augmentation of faculty and human resources to sustain quality care and academic excellence.

### ***Equipment & Facilities***

#### 1. Major equipments

- Catheterisation Laboratory - 2
- Echocardiography machine -4
- Defibrillator-8
- Multiparamonitor-38
- Temporary pacemaker -4
- Holter machine -2
- TMT machine -2
- Tilt table machine-1
- High pressure injector-1
- OCT machine-1
- Rotablator machine-1
- Ventilator-10

- Videolaryngoscope-1
- IABP machine -1
- Nebulizer-5

#### Infrastructure key Facilities

- 90 bedded General and Special Wards
- 2 functioning Cath Lab Theatres
- 28 bedded ICCU with centralized monitoring
- 7 bedded post op ICU

#### *Clinical Services*

- Primary angioplasty programme since inception
- Routine angiogram and angioplasty (PCI).
- Complex procedures, like rotablation, OCT guided PCI, Zero contrast PCI etc
- Structural interventions like ASD, VSD, and PDA device closure, TAVI, TMVR etc.
- Six days cardiology OP.
- Routine Echocardiography services till 7pm every day.
- 24×7 Cardiology consultation service.
- Selected paediatric structural intervention procedure.
- Holter testing
- TMT
- Tilt Table testing
- Stress echocardiography

#### Specialty Clinics

- Heart failure clinic along with daily OP.
- Pacemaker clinic once monthly.
- Paediatric echocardiography along with daily OP.

**Table 3.3.33 Operational statistics**

Year wise average operation	2019	2020	2021	2022	2023	2024	2025
Outpatients	41240	8300	22000	41400	42,500	44,976	41,567
Admissions	9800	2300	8500	9800	10320	9580	8670
Angiogram	3750	665	2150	3850	3800	3986	4250
Angioplasty including primary PCI	4430	1900	2500	4200	4280	3675	4550
Peripheral angiogram &Plasty	450	10	150	275	325	295	324
Pacemaker/ICD/CRT	410	20	160	400	310	345	305
ASD closure	85	2	25	65	56	52	47
BMV	8	0	1	4	5	6	4
Other structural interventions like EVAR,TAVI, TMVR	10	0	5	9	9	10	5

***Special Initiatives***

- Have done 20 TAVI and 3 TMVR
- Done first Leadless pacemaker in Government sector
- Routinely do CRT -P, ICD insertion
- Routinely do LBB pacing.
- Till 2023 have done 200 EP studies.

- Have conducted live case transmission in 2019 in international cardiology teaching CME. (Sanfrancesco) and in national teaching CME (Hyderabad) in 2020.
- DM trainees have regularly presented cases in India Live in 2021, 2022, 2023. ECHO conference held in Kerala.
- Our faculties have regularly presented cases and given topic-oriented teaching lectures in international (London Valve 2025, TCT 2022 conference US) and national conference (India Live, ICC, CSI, India valve etc)
- Our faculties are regularly chaired scientific conferences in Kerala like ICCK, CSI, Back to basics etc)

### ***Key Gaps and Future Requirements***

1. Human Resource Augmentation
  - Creation of 2 Associate Professor posts, 3 Assistant Professor posts, and 2 Senior Resident posts to enable functioning of the department as three clinical units instead of the existing single unit.
  - This is the most urgent requirement and is essential for sustaining clinical services, academics, and research activities.
2. Academic Capacity Expansion
  - Increase in DM postgraduate seats to strengthen academic output and meet regional super-specialty training needs.
3. Research and Publication Support
  - Enhancement of research and publication activities; improvement is expected following resolution of faculty and Senior Resident shortages, as patient load is already adequate.
4. Paediatric Cardiac Intervention Workshops
  - Provision for monthly dedicated paediatric cardiac intervention workshops to improve access to specialised care for children in the region.
5. Cath Lab Infrastructure Upgradation

- Establishment of a fully equipped 3D Electrophysiological Study Catheterization Laboratory in place of the decommissioned A cath lab.
6. Cath Lab Data Management and Archival
    - Appointment of two dedicated technical/data staff with provision for a cardiology office setup to ensure proper preservation, retrieval, and reproducibility of critical cath lab data.
  7. Advanced Interventional Cardiology Services
    - Introduction of Laser Angioplasty facilities at Government Medical College Kannur.
  8. Advanced Cardiac Imaging
    - Incorporation of Cardiac MRI software in the newly proposed MRI unit at GMC Kannur.
  9. Cardiac Transplant Programme Development
    - In collaboration with the CVTS department, development of infrastructure, manpower, and systems to establish GMC Kannur as a Cardiac Transplant Centre for North Malabar.

## 15. Department of Nephrology

### Introduction

The Department of Nephrology is located on the 3rd floor of the hospital building and houses a well-equipped outpatient dialysis unit, while a dedicated inpatient dialysis unit functions on the 7th floor. The department is led by Professor Dr. M. Sreelatha, along with Dr. Dhanin Puthiyottil, Assistant Professor, and Dr. Amitha Prem, Senior Lecturer, ensuring comprehensive kidney care services for patients.

We provide round-the-clock emergency dialysis services, completely free of cost for eligible patients. The department caters to approximately 100 patients per outpatient clinic, with two OPD sessions conducted every week, and manages around 30–50 inpatient cases including cross-consultations. A wide range of

nephrology procedures are routinely performed, including temporary and tunneled hemodialysis catheter insertion, kidney biopsy, and CAPD catheter insertion. Plans are underway to initiate a kidney transplant program in the near future, further strengthening our commitment to advanced renal care.

***Equipment and facilities***

Dialysis unit IP unit in 7<sup>th</sup> floor with 8 beds

OP dialysis unit with 22 dialysis beds (undergoing renovation)

Isolation dialysis facility for: HCV and HbSAg positive patients

CAPD room

Procedure room

OP room 3<sup>rd</sup> floor

Classroom - - DDT students class daily

Dialysis machines -32 at present

CRRT machines: 3

USG machines :2

Multipara meter monitor        5

Defibrillator        : 2

Ventilator: 1

Infusion pumps: 5

Clinical service:

OP – two per week: Monday and Wednesday (100 patients per day)

IP care admission in ward average around 10-15

Consultation service: 40-50 per day

Procedures done: temporary dialysis catheter insertion, tunneled catheter insertion, CAPD Catheter insertion, kidney biopsy

**Table 3.3.34 Operational statistics**

	2019	2020	2021	2022	2023	2024	2025
Total IP	328	2111	2379	2177	2221	1964	1503
Total OP	28210	25886	24160	21868	21945	13374	8000

***Special initiatives:***

- Started CRRT program: we have 3 CRRT machines at present.
- CPAD: Home CAPD program was initiated
- Kidney transplant program: awaiting inspection for transplant license
- Conducted world kidney day program
- Conducted CAPD workshop
- Conducted CRRT workshop
- PG DM nephrology program: KUHS inspection completed

***Key gaps and future requirements:***

Need more faculty: **Associate Professor post is still vacant**

PG Seat: KUHS initial inspection done; but NMC pending need faster actions to initiate the program.

**16. Department of Urology**

Introduction

Department of urology is dealing with patients of Kannur , Kasargod districts. Lot of major cases including complicated cases are managed. Faculty include 2 associate professors and one unfilled post of assistant professor and a lecturer. One Contract NAJR is posted.

***Equipments and Facilities***

- Laparoscopic equipment - Laparoscopic neprectomy, laparoscopic pyeloplasty and nephrolithotomy etc are done
- Nephroscope - PCNL is done regularly
- Ureteroscope - ureteric stones are major bulk of stone work
- Cystoscope and resectoscope - TURP, TURBT done regularly
- Thulium Laser machine - used for stone cases.

***Clinical services***

- Urology opd - Wednesday, Friday
- Urology OT - Wednesday and Friday
- Admissions - elective and emergency
- Emergency cases- on all days

Speciality clinics (if applicable)

***Operational statistics***

Out patient

2019	-	7100
2020	-	7250
2021	-	7500
2022	-	7700
2023	-	7600
2024	-	7900
2025	-	8200

***Admission -***

2019	-	580
2020	-	610
2021.	-	700

2022	-	830
2023	-	780
2024	-	810
2025	-	730

### **Surgery (major / minor)**

<u>Year</u>	<u>Major</u>	<u>Minor</u>
2019 -	210.	239
2020 -	140	172
2021 -	160	242
2022 -	220.	352
2023 -	250.	347
2024 -	255	331
2025 -	240	285

### **Special initiative**

- Request for Renal Transplantation Licence is given. Inspection awaited.
- PG seat request is being planned.

### **Key gaps / future requirements**

- PG program to be started
- Unfilled posts to be filled.
- More faculty post needed to deal heavy workload.

## **17. Department of Neurology**

### **Introduction**

The Department of Neurology is located on the 3rd floor Block Number 21 of the hospital building and houses a well-equipped outpatient unit ensuring comprehensive kidney care services for patients.

The department caters to approximately 100 patients per outpatient clinic, with two OPD sessions conducted every week, and manages around 30–50 inpatient cases including cross-consultations.

OPD days: Every Tuesday and Thursday

OPD turn over: on average 100 - 120 patients per OPD

IP and op consultations: Daily 25 to 40 consultations from various departments

### *Equipments and facilities*

Major equipments

- EEG machine -2
- Nerve conduction EMG machine -2

Department facilities

- Neurophysiology lab
- Services offered: 1. EEG (Electroencephalography)
- 2. VEEG (Video EEG) short and long term
- 3. Overnight VEEG
- 4. NCS (Nerve conduction study)
- 5. EMG (Electromyography)
- 6. RNS (Repetitive nerve stimulation test)
- 7. VEP (Visual evoked potential)
- 8. BERA (Brainstem evoked response audiometry)
- 9. Neuromuscular ultra sound

For diagnosis of entrapment neuropathies, anterior horn cell diseases, myopathies and muscular dystrophies

Clinical Services

- Local steroid injection (ultra sound guided for entrapment neuropathies).

- Planning to start Botox injections for hemi facial spasm, blepharospasm, focal dystonias, and trigeminal neuralgia and post herpetic neuralgia.

#### Academic activities

- Teaching academic and non-academic Junior Residents posted in neurology department (Regular topic discussions and case discussions)
- Teaching programme for neuro technicians to update their knowledge and sharpen their skills

Neurology case discussions with junior residents of medicine and paediatric departments

#### *Operational Statistics*

Outpatient statistics 2025: 8623

#### *Special Services*

Various projects under development

- Prevalence of ataxia and aetiological workup for ataxias in patients with Epilepsy
- Psychosis in Epilepsy.
- Dysphagia – Prevalence, aetiology and treatment outcome in Dementia and Parkinsonism.
- Proposal for Comprehensive Stroke Care Unit has obtained administrative sanction.

### **18. Department of Microbiology**

Introduction:

The Department of Microbiology at GMC Kannur functions as a key para-clinical department supporting medical education and hospital laboratory services. It is involved in teaching bacteriology, virology, mycology, immunology, and related subjects to medical and paramedical students. The department operates clinical laboratories equipped to perform microbiological investigations, including culture

and sensitivity testing, serological tests, molecular testing and detection of infectious agents.

***Equipment and facilities:***

Department of Microbiology is equipped to perform following diagnostic tests:

Bacteriology

Mycology Parasitology Serological tests Molecular tests

***Clinical services:*** Microbiology department supports clinical departments in making treatment decisions on a day-to-day basis.

***Operational statistics:***

Average (Monthly)

Bacteriology	977
Serology	30
Mycology	34
Parasitology	38
Virology	35
Immunology	170

**19. Department of Gastroenterology Government Medical College Kannur**

Division of Gastroenterology caters patients from Four districts namely Kasaragod, Kannur, Wayanad and half of Kozhikode districts. Gastroenterology deals with patients with alimentary system diseases diagnostic and therapeutic. In Kannur Government Medical College only one qualified Gastroenterologist is there. We are conducting outpatient clinics, inpatient facility, diagnostic and therapeutic upper GI and Lower GI endoscopes, Other diagnostic procedures, Regular Liver Fibroscan screening. Community level preventive Gastroenterology.

**Department Facilities**

OPD services and IP services

Endoscopic procedures – Diagnostic and therapeutic.

- Banding procedures
- Foreign body extraction,
- Stricture dilatation ,
- liver Biopsy,
- Fibroelastogram,
- Classes for postgraduate (PG), and Nursing students,
- community level Medical camps.

**Equipments****Table 3.3.35 Equipments**

SI No	Equipments	Unit
1	<b>Endoscope (Fuji Film) Video Gastroscope (EG530)</b>	1
2	Video Colonoscope (EC530WLS3)	1
3	Video Processor VP5300 HD	1
4	Light Source XL 4450 HD	1
5	Medical Grade Monitor 19"	1
6	Trolley for Fuji Film Video Endoscopic System	1
7	Endoscopy Monitor 24" HD FSNL 2403D	1
8	Double Balloon Endoscope	1

*Operational statistics***Table 3.3.36 Operational statistics**

SL NO	Year	CONSULTATION&OP	OGD SCOPY	COLONOSCOPY
1	2023	3491	514	162
2	2024	7338		
3	2025	7168		

*Future plans*

Increase the strength of faculty.

1. To start Super Speciality PG course in Gastroenterology Department.
2. Liver transplantation facilities.
3. Destiny for research.

## CHAPTER 4

### HUMAN RESOURCES PROFILE

#### 4.1 Faculty Strength

**Table 4.1 Faculty Strength**

Designation	Department	No. Of Posts	Vacancy
Professor	Physiology	1	0
Asso Professor	Physiology	2	0
Asst Professor	Physiology	3	0
Professor	Biochemistry	2	0
Asso Professor	Biochemistry	1	0
Asst Professor	Biochemistry	2	1
Professor	Anatomy	1	0
Asso Professor	Anatomy	2	0
Asst Professor	Anatomy	1	0
Professor	Pathology	1	1
Asso Professor	Pathology	3	0
Asst Professor	Pathology	4	0
Lecturer	Pathology	1	1
Professor	Microbiology	1	0

Asso Professor	Microbiology	1	0
Asst Professor	Microbiology	1	0
Professor	Pharmacology	1	0
Asso Professor	Pharmacology	1	0
Asst Professor	Pharmacology	2	1
Professor	Forensic Medicine	1	0
Asso Professor	Forensic Medicine	1	0
Asst Professor	Forensic Medicine	2	1
Professor	Community Medicine	1	0
Asso Professor	Community Medicine	2	0
Asst Professor	Community Medicine	3	1
Professor	Radiodiagnosis	1	0
Asso Professor	Radiodiagnosis	2	0
Asst Professor	Radiodiagnosis	2	1
Lecturer	Radiodiagnosis	1	0
Professor	Radiotherapy	1	0
Asso Professor	Radiotherapy	1	0
Asst Professor	Radiotherapy	2	1
Lecturer	Radiotherapy	2	1

Professor	Obstetrics & Gynecology	3	0
Asso Professor	Obstetrics & Gynecology	5	0
Asst Professor	Obstetrics & Gynecology	2	1
Lecturer	Obstetrics & Gynecology	1	0
Professor	Orthopedics	2	1
Asso Professor	Orthopedics	2	0
Asst Professor	Orthopedics	3	0
Lecturer	Orthopedics	1	0
Professor	ENT	2	0
Asso Professor	ENT	1	0
Asst Professor	ENT	3	0
Lecturer	ENT	1	1
Professor	Paediatrics	4	0
Asso Professor	Paediatrics	2	0
Asst Professor	Paediatrics	2	0
Lecturer	Paediatrics	1	0
Professor	CVTS	1	0
Asso Professor	CVTS	1	0
Asst Professor	CVTS	2	2

Lecturer	CVTS	1	0
Professor	General Medicine	5	0
Asso Professor	General Medicine	9	0
Asst Professor	General Medicine	4	0
Lecturer	General Medicine	1	0
Asso Professor	Gastroenterology	1	1
Asst Professor	Gastroenterology	1	0
Professor	General Surgery	2	0
Asso Professor	General Surgery	3	0
Asst Professor	General Surgery	7	1
Lecturer	General Surgery	3	0
Professor	Anaesthesiology	2	0
Asso Professor	Anaesthesiology	2	0
Asst Professor	Anaesthesiology	5	1
Lecturer	Anaesthesiology	3	1
Professor	Psychiatry	2	0
Asso Professor	Psychiatry	1	0
Asst Professor	Psychiatry	3	0
Professor	Emergency Medicine	1	1

Asso Professor	Emergency Medicine	1	0
Asst Professor	Emergency Medicine	2	1
Lecturer	Emergency Medicine	3	0
Professor	Respiratory Medicine	2	0
Asst Professor	Respiratory Medicine	2	1
Lecturer	Respiratory Medicine	1	1
Professor	Ophthal	3	0
Asso Professor	Ophthal	1	0
Asst Professor	Ophthal	3	1
Professor	Physical Medicine	1	0
Asst Professor	Physical Medicine	1	0
Professor	Dermatology	3	0
Asst Professor	Dermatology	2	1
Lecturer	Dermatology	1	0
Professor	Cardiology	1	0
Asso Professor	Cardiology	1	0
Asst Professor	Cardiology	2	0
Lecturer	Cardiology	1	0
Asst Professor	Transfusion Medicine	2	1

Asso Professor	Urology	2	0
Asst Professor	Urology	1	1
Lecturer	Urology	1	0
Asso Professor	Neurosurgery	1	0
Asst Professor	Neuro surgery	3	2
Asso Professor	Gastrosurgery	1	1
Asst Professor	Gastrosurgery	3	3
Asso Professor	Neurology	1	0
Asst Professor	Neurology	2	0
Professor	Nephrology	1	0
Asso Professor	Nephrology	1	0
Asst Professor	Nephrology	1	0
Lecturer	Nephrology	1	0
Asso Professor	Paediatric surgery	1	0
Asst Professor	Paediatric surgery	2	1
Professor	Plastic surgery	1	0
Asst Professor	Plastic surgery	1	1
Asst Professor	Neonatology	1	1
<b>Total</b>		<b>206</b>	<b>35</b>

**Table 4.2 Administrative Staff**

<b>Administrative Posts created vide GO(MS)no.39/2019/H&amp;FWD dated 08.03.2019</b>		
1	Principal	1
2	Accounts Officer	1
3	Administrative Assistant	2
4	Lay Secretary & Sr. Superintendent	3
5	Jr. Superintendent	4
	<b>Sub Total</b>	<b>11</b>

**Table 43. Nursing Staff**

<b>5 Post created vide GO(MS)No.132/2020/H&amp;FWD dated 24/07/23 for the smooth functioning of the hospital</b>		
1	Nursing Superintendent Gr. II	2
2	Head Nurse	11
3	Staff Nurse Gr. I	232
4	Staff Nurse Gr. II	276
	<b>Sub Total</b>	<b>521</b>
<b>Post created vide GO(MS)No.167/2023/H&amp;FWD dated 09/10/2020 for the smooth functioning of the hospital</b>		
1	Nursing Assistant	161

2	Hospital Attendant Gr I	40
3	Hospital Attendant Gr II	7
	<b>Sub Total</b>	<b>208</b>

**Table 4.4 Support staff**

<b>6 Accommodation of para -medical staff creation of 209 posts vide order no 313/2023/H&amp;FWD dated 18.11.2023</b>		
1	Dietician Sr Grade	1
2	Clinical psychologist	1
3	Speech pathologist	2
4	Librarian Grade II	1
5	Librarian Grade III	5
6	Librarian Grade IV	3
7	Library attender	1
8	JHI Grade II	1
9	Social Scientist	2
10	Mesuim/ Photographic assistant	1
11	Development therapist	2
12	Cyto technologist	1
13	Curator	1

14	Radiographer Grade I	2
15	X ray attender	5
16	Radiographer Grade II	9
17	Nursing assiatant	12
18	ECG tech Grade II	1
19	Scientific Assistant	2
20	Physitherapy assiatant	1
21	Lab Tech Grade I	6
22	Lab Tech Grade II	24
23	JLA	27
24	Dialysis Tech Grade II	3
25	Blood bank tech Grade I	1
26	Blood bank tech Grade II	1
27	Pharmacist Grade I	4
28	Pharmacist Grade II	28
29	Cathlab tech grade II	3
30	Thearure tech Grade II	6
31	Juionr Public Nurse Gr II	1
32	Full time Sweeper	12

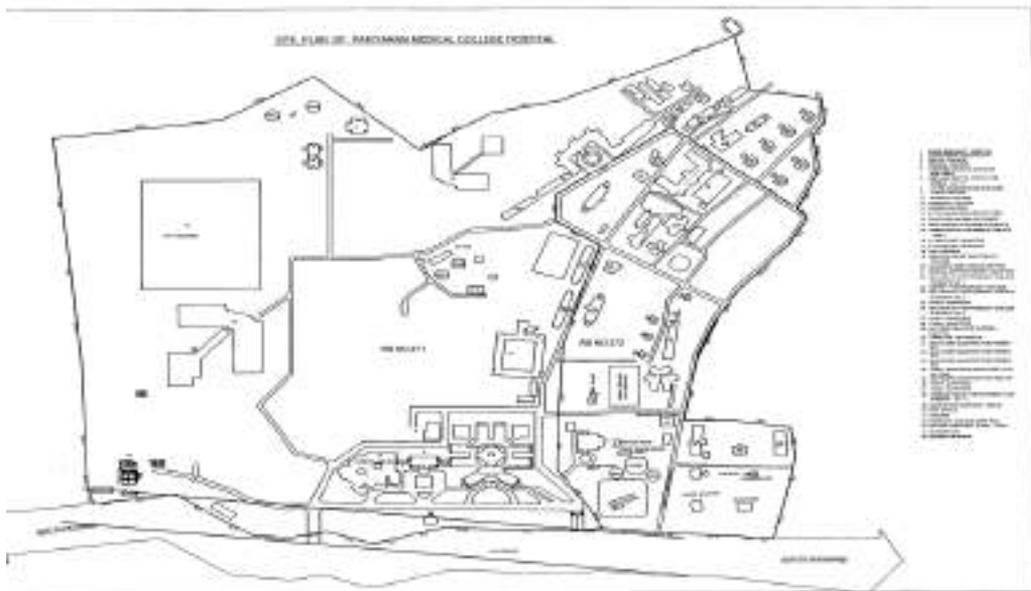
33	Refractuionist Gr I	1
34	Refractuionist Gr II	1
35	Medical records Librarian	1
36	Hospital attendant Gr II	30
37	Other Attenders	6
	<b>Sub total</b>	<b>209</b>
	<b>Total Post created</b>	<b>1155</b>

## CHAPTER 5

### HEALTH INFRASTRUCTURE DEVELOPMENT

#### 5.1 Overview

#### Campus layout



**Figure 5.1: Site plan of Pariyaram Medical College Hospital**

#### Blocks and major buildings

Table 5.1 shows the details of the blocks and major buildings of Govt Medical College, Kannur

**Table 5.1: Details of blocks and major buildings**

1	Hospital Complex	63460	Multi Speciality Hospital	1999	753
					2
3	Dental College	3650	Dental College cum hospital	2002	600

4	Medical College	35000	College of medical sciences	1998	4400
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## 5.2 Existing Infrastructure

Table 5.2 shows the details of buildings along with their purpose and year of construction

**Table 5.2: Details of Building in Government Medical College Campus**

SL No	Name of the Building	Plinth Area in M2	Purpose of Construction	Year of Construction
1	Hospital Complex	63460	Multi Speciality Hospital	1999
2	Dental College	3650	Dental College cum hospital	2002
3	Medical College	35000	College of medical sciences	1998
4	Ladies hostel no.1 (LH1) (old nurses' quarters)	2620	Hostel for nursing and pharmacology students	1997
5	Principal Quarters	248	Residential building	2000
6	D type Quarters	3112	Residential building	1997
7	E type Quarters	2400	Residential building	1997
8	Nurses' quarters LH2	3835.5	Hostel	1996

9	B type quarters no 1	744	Residential	2000
10	OHT quarters (C type)	800	Residential	2002
11	Mortuary new / forensic sciences department	920	Educational	1998
12	B type quarters no 2	2526	Residential	2004
13	1250 kv generator building	321	Educational	1998
14	New laundry	612.5	Laundry and workshop	1998
15	Water treatment plant		Educational	2002
16	Sewerage treatment plant		Educational	2004
17	Vice Principal quarters No 1	230	Residential	1998
18	Vice Principal quarters No 2	230	Residential	1998
19	Shops under ramp	310.05	Commercial	
20	AC plant No 1	36	Cardiology	2002
21	AC plant No 2	36	Cardiology	2002
22	Stores under ramp	20	MRD	

23	Academy of pharmaceutical sciences	2957	Educational	2002
24	College of nursing	3566.4	Educational	2002

### Hospital blocks

Table 5.3 shows the details of the hospital blocks.

**Table 5.3: Details of Hospital block**

Name of the Building	Plinth Area in M2	Purpose of Construction
Hospital Complex	63460	Multi Speciality Hospital

### Academic blocks

Details of the academic block along with the purpose of construction is given in Table 5.4.

**Table 5.4: Details of academic blocks**

Name of the Building	Plinth Area in M2	Purpose of Construction
Medical College	35000	College of medical sciences

## Hostels

Details of both Mens and Ladies hostels with year of construction are given in Table 5.5.

**Table 5.5.: Details of both Mens and Ladies hostels**

SL No	Name of the Building	Plinth Area in M2	Year of Construction
1	Men's hostel (MH MBBS)	5950	1998
2	Ladies hostel new (LH3 MBBS)	8860	1998

## Libraries

- Medical college's central library is the best among the medical college libraries of Kerala
- Also equipped with an E- Library
- 24 hours service with supporting staff
- Spacious - 3500 sq. mt
- Medical books - 11,000 nos
- Journals - more than 1000 nos. (including back volume of foreign and indian Journals), medical CD's- 500 nos
- Audio visual equipment, internet, xerox facilities, uninterrupted power supply
- Separate departmental libraries
- One India One Subscription also available
- Skills lab

### 5.3 Infrastructure Projects (Ongoing & Completed)

Status of infrastructure works of GMC Kannur is shown in Table 5.6.

**Table 5.6: Project works details**

<b>GMC Kannur- Status of Infrastructure Works as on 10.12.2024</b>						
<b>Sl. No.</b>	<b>Name of Work</b>	<b>AS Number &amp; Date</b>	<b>AS Amount in Lakhs</b>	<b>Fund Deposited</b>	<b>Physical Progress in %</b>	<b>Status of work</b>
<b>FY 2021-22</b>						
<b>1</b>	Construction of patient friendly waiting cum registration building at Govt.medical college Kannur at pariyaram (Deposit work)	GO(Rt)No. 1642/2021/H&F WD dtd .07.2021	100	100	-	Since the original proposal was for constructing 9 floors, Investigation work was arranged by according part TS for Rs 3.7L and completed. Currently the proposal

						<p>revised for 3 floors (G+2) . Tentative Architectural (AR) drawing obtained and approved by the Medical College Authorities. Accordingly detailed AR drawing prepared and submitted for structural Design. Then Medical college Authorities has requested for revision of AR drawing (to reduce the area). Accordingly AR drawing revised and approved by Medical College. Now</p>
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						AR drawing submitted to PWD Design wing for structural design
2	Construction and renovation of Medical & Para Medical Hostels for Under Graduate & Post Graduate Students- Paramedical Hostel Construction	GO(Rt) No. 721/2022/H&F WD dtd 30.03.2022	300	Plan work	-	Comprehensive AS for 22.7 crores Location of building changed as per the suggestion received from PWD Design wing. Revised site plan approved by the Medical College and detailed drawing (revised)

						received from AR wing on 20.01.2024. Design drawing received on 31.05.2024. TS estimate submitted for approval
3	PWD/BLDG/EST/106246/2021_5_1_1 ] GENERAL-Modification works to the Men's Hostel of Pharmacy College at GMC kannur( Old Special ward Building)-Modification works to the Men's Hostel of Pharmacy College at GMC kannur( Old Special ward Building)-General Civil Work-1	G.O.(Rt) No.171/2022/H &FWD . Dtd.21/01/2022	64.2	206.01	100 %	Work completed for Civil. UC received As per G.O.(Rt)No.254 7/2024/H&FW D DATED 24-10-2024 permission given for utilising an amount of Rs. 4,40,000/- for its electrical work. Tendering process done

4	PWD/BLDG/EST/ 106231/2021_5_1_1 ] GENERAL- Painting works to Ladies hostel building (MBBS)- Painting works and Civil works to Ladies hostel building (MBBS)- General Civil Work	G.O.(Rt) No.171/2022/H &FWD . Dtd.21/01/2022	64.2 3		100 %	Work completed. UC received
5	PWD/BLDG/EST/ 106240/2021_5_1_1 ] GENERAL- Painting and repair works to D type quarters at GMC Kannur- Painting and repair works to D type quarters at GMC Kannur- General Civil Work	G.O.(Rt) No.171/2022/H &FWD . Dtd.21/01/2022	21.4 8		100 %	Work completed. UC received

6	PWD/BLDG/EST/ 106238/2021_5_1_1 ] GENERAL-Painting (inside only) and repair works to men's hostel (MBBS/BDS)- Painting (inside only) and repair works to men's hostel (MBBS/BDS)- General Civil Work	G.O.(Rt) No.171/2022/H &FWD . Dtd.21/01/2022	56.1		100 %	Work completed. UC received
7	Govt Medical College Kannur- Construction of Post Graduate Hostel- 1st Phase (Deposit work)	GO(Rt) No. 2811/2022/H&F WD dtd 26.11.2022	200	200	-	Comprehensive AS of 28 crores Detailed AR drawing (revised -after incorporating rooms with attached toilet in GF) received on 20.01.2024. The same has been submitted to

						<p>PWD Design wing. During the site visit of Design wing on 03.02.2024, Medical College officials reported about the pipe line passing through the proposed location. Based on the Details received from Medical College, site plan revised. Since the amount sanctioned in 1st phase is not enough to start a major work, Design wing reported that structural design for preparing TS</p>
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						estimate will be made available only after the receipt of 2nd phase AS(submitted for Rs 500L)
<b>FY 2022-23</b>						
<b>8</b>	PWD/BLDG/EST/6339/2022_5_1_1 ] DEPOSIT-GMCK-Pharmacy college-Construction of Additional Class Rooms in Pharamacy college-Phase -I at GMC Kannur at pariyaram in Kannur	GO(Rt) No. 2007/2022/H&F WD dtd 13.08.2022	100	100	100 %	Civil work completed. Bill under scrutiny
<b>9</b>	GMCK-Construction of Rest Room for Differently Abled Persons	GO(Rt) No.2261/2022/H&FWD dtd 19.09.2022	35.3	Plan work	-	To be included in the Patient friendly building. Status same as that of Patient

						friendly building
<b>10</b>	PWD/BLDG/TR/8032/2022_5_1_1/2 GENERAL-DETAILED ESTIMATE FOR THE PROPOSED RAMP FOR DIFFERENTLY ABLED PERSONS AT MEDICAL COLLEGE BUILDING AT GMCK-	GO(Rt) No.2261/2022/H&FWD dtd 19.09.2022	1.2	Plan work	100 %	Work completed. Final bill passed
<b>11</b>	PWD/BLDG/TR/8029/2022_5_1_1/1 GENERAL-CONSTRUCTION OF RAMP AND VEHICLE PARKING SHED TO DIFFERENTLY ABLED PERSONS AT CONSULTANCY BLOCK BUILDING OF GMCHK-	GO(Rt) No.2261/2022/H&FWD dtd 19.09.2022	3.5	Plan work	100 %	Work completed. Final bill passed

12	PWD/BLDG/EST/ 8580/2022_5_1_1 ] DEPOSIT-GMCK- ROOFING SHEET- DETAILED ESTIMATE FOR ROOFING THE TERRACE LEVEL OF EXISTING EXAMINATION HALL AREA OF (PHASE-I) MEDICAL COLLEGE BUILDING AT GMCK-	GO(Rt) No. 2770/2022/H&F WD dtd 19.11.2022	85	85	100 %	Work completed. UC received
13	PWD/BLDG/EST/ 5266/2023_9_1_1 ] DEPOSIT- Construction of providing night autopsy arrangements above the existing Forensic department at GMC-at Kannur,Pariyara m-Composite	Go(Rt) No. 386/2023/H&F WD dtd 18.02.2023	98.1 1	98.11	100 %	Work completed. UC received

	Civil Work					
<b>FY 2023-24</b>						
<b>14</b>	PWD/BLDG/EST/ 18795/2022_23_ 1_1 ] GENERAL- Providing aluminium works to Virology lab at GMCK-Pariyaram	GO(Rt) No.1240/2023/ H&FWD dtd 25.05.2023	40	40	100 %	Work completed. UC received
<b>15</b>	PWD/BLDG/EST/ 7612/2023_5_1_1 ] DEPOSIT-GMC KANNUR-LH2- GMC Kannur- Maintanance and Repair works of Ladies Hostel LH 2	Go(Rt) No. 1787/2023/H&F WD dtd 21.07.2023	75	75	100 %	Completed. RE to be approved

16	PWD/BLDG/EST/ 7208/2023_5_1_1 ] DEPOSIT- Annual Plan 2023-24-Govt Medical College Kannur Pariyaram- E Type Quarters - Repair and maintenance work of E type quarters at GMCK	Go(Rt) No. 1787/2023/H&F WD dtd 21.07.2023	25	140	80%	Work in progress
17	PWD/BLDG/EST/ 7588/2023_5_1_1 ] DEPOSIT- Annual Plan 2023-24-Govt Medical College Kannur Pariyaram- Ladies Hostel (LH3)-Providing Light Roofing work and Toilet Repair at Ladies Hostel Building (LH 3) in GMCK	Go(Rt) No. 1787/2023/H&F WD dtd 21.07.2023	50		-	Work started

<b>18</b>	PWD/BLDG/EST/ 7589/2023_5_1_1 ] DEPOSIT- Annual Plan 2023-24-Govt Medical College Kannur Pariyaram- Repair works at Mens Hostel Building- Providing Light Roofing and Toilet Repair work at Mens Hostel Building , GMCK	Go(Rt) No. 1787/2023/H&F WD dtd 21.07.2023	50		-	Work started
<b>19</b>	PWD/BLDG/EST/ 7659/2023_5_1_1 ] DEPOSIT- Annual Plan 2023-24-GOvt Medical College Kannur Pariyaram- Pharmacy College-Painting works to Pharmacy College	Go(Rt) No. 1787/2023/H&F WD dtd 21.07.2023	15		90%	Work in progress

	at Govt Medical College Kannur					
<b>20</b>	Govt medical College Kannur- Patient friendly building- Registration counter	Go(Rt) No.2329/2023/H&FWD dtd 13.09.2023	20	20	-	To be included in the Patient friendly building. Status same as that of Patient friendly building
<b>21</b>	Annual Plan 2023-24-Medical Education- Implementation of Plan Scheme- Establishment & modernization of Drug Store under DME- Construction of Drug Store at Govt Medical College Kannur	GO(Rt)No. 2411/2023/H&FWD dtd 19.09.2023	350	350	-	Detailed AR drawing received. Soil investigation work in progress

<b>22</b>	Govt Medical College Kannur- Implementation of Plan Scheme for the year 2023-24- Construction of Paramedical Hostel- Phase II	GO(Rt) No. 1922/2023/H&F WD dtd 01.08.2023	300	Plan work	-	TS estimate submitted combined with 1st phase AS
<b>2024-2025</b>						
<b>23</b>	Providing Light roofing at the terrace level of the Medical College Building	G.O. (Rt.) No 1522/2024/H &FWD. Dt. 24.06.2024.	100	100		
<b>24</b>	Repair and Maintenance work of LH -2 Pharmacy College (Phase II)	G.O. (Rt.) No 1522/2024/H &FWD. Dt. 24.06.2024.	75	75		
<b>25</b>	Providing and laying of water distribution pipelines from main water tank at GMCK Campus -Phase I(General Civil Work )	G.O. (Rt.) No 1522/2024/H &FWD. Dt. 24.06.2024.	40	40		TS estimate under preperation

<b>PWD- ELECTRICAL WORKS</b>						
<b>26</b>	Setting up of VRDL ( Electrical Work)	GO(rt)1240/2023/h & fwd 25.05.2023--- 8.5lakhs	8.5 laks		70%	Work under progress
<b>27</b>	Plan-21-22-GMC KNR Supply and installation of 15 passenger capacity list foer elderly and disabled person at GMC hospital kannur	Go(Rt) No. 553/2022/H&F WD dtd 11.03.2022--- 30lakhs	30 lakh s	30 lakhs		Work in progress
<b>OTHER WORKS -STATUS AS ON 23.11.2024</b>						
<b>28</b>	Revamping of existing STP	GO(Rt)No.2503/2023/H&FWD 29.09.2023	74.9 3		80%	80% of the work completed and the implementing agency M/S irtc submitted the part bill. Decision for new collection tank pending.

<b>29</b>	Revamping of existing water treatment plant	G.O(Rt.)No.2770 /2022/H&FWD, Dt.19.11.2022	90		100 %	100% work completed and the implemented agency m/s irtc submitted the final bill
<b>30</b>	Strengthening and up gradation of State Medical Colleges for increase in PG seats - Phase II "Civil, Electrical & Electronics Works	G.O.(Rt)No.2077 /2024/H&FWD Dated, 30-08-2024	75			Agency M/s Nirmithi Kendra requested for mobilisation advance for starting the work
<b>31</b>	GMC Kannur- Trauma Care - Phase 1	G.O(Rt.) No.181/2020/H &FWD, Dt.24.01.2020--- 5769.76lakhs	576 9.76 lakh s			Work not started
<b>32</b>	GMC Kannur- Trauma Care - Phase li	G.O(Rt.) No.181/2020/H &FWD, Dt.24.01.2020--- 3747.77lakhs	374 7.77 lakh s			Work not started

<b>33</b>	GMC Kannur- Maintenance - Phase 1	G.O(Rt.) No.181/2020/H &FWD, Dt.24.01.2020--- 2978lakhs	297 8 lakh s		90%	90 % work Completed, RE 3 prepared.
<b>34</b>	Replacement of 11KV Outdoor CTPT unit and HT TOD Meter	S3/8283/23/GM CHKNR dated 19.09.2023--- 3.1lakhs	3.1 lakh s			Deposited to PWD
<b>35</b>	Setting Up RT PCR Lab	DC KNR/ 3352/2020-E10 Rs 15.48 lakhs--- 15.48lakhs	15.4 8 lakh s		100 %	Work Completed
<b>36</b>	Setting Up Of Hdu At Gmc Kannur	DPMSU- KNR/536/AC/2 020/DPMSU dated 04.08.2020--- 14.45lakhs	14.4 5 lakh s		100 %	Work Completed
<b>37</b>	Setting Up Of Oxygen Generator Plant	NHM/4155/E2/ 2020/SPMSU dated 03.11.2020--- 30lakhs	30 lakh s		100 %	Work Completed

<b>38</b>	Critical Care Block	NMH/4965/ENG G3/2024/SPMS U dated 04.08.24- 2175 Lkajs	217 5 lakh s			DPR for TS created. Submitted to TS committee and awaiting comments.
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Table 5.7 presents the details of ongoing Centrally Sponsored Schemes (CSS) being implemented to strengthen health systems and public health preparedness. The schemes include establishment of advanced viral research and diagnostic laboratory infrastructure with support from ICMR, upgradation of state medical colleges to initiate new postgraduate disciplines and increase PG seats under the Directorate of Medical Education (DME), and implementation of the National One Health Programme under NCDC for prevention and control of zoonotic diseases through intersectoral coordination.

**Table 5.7 : Details of CSS programs – On going**

<b>Sl No</b>	<b>Name of Scheme</b>	<b>Name of Administrative Department</b>	<b>Amount Sanctioned</b>
<b>1</b>	Setting up of Viral research and Diagnostic laboratory	ICMR	1.971 crores
<b>2</b>	Strengthening & upgrading of State medical colleges for starting PG Disciplines and increasing PG seats in country Phase II	DME	8.93 crores
<b>3</b>	National One Health Programme for Prevention and Control of Zoonoses	NCDC	

Table 5.8 provides an overview of various schemes indicating the amounts sanctioned and

the funds received, along with the corresponding scheme-wise ratio.

**Table 5.8: Details of various schemes – sanctioned and received amounts**

SI No	Name of Scheme	Name of Administrative Department	Amount Sanctioned	Amount received	Scheme Ratio
1	Khelo India- Laying of 400 Metre Syntetic track	Ministry of Youth and Sports kerala	7 crores	3.47 crores	100%
2	Setting up of Viral research and Diagnostic laboratory	ICMR	1.971 crores	1.971 crores	75% 25 %
3	Strenthening & upgrading pf State medical collges for starting PG Disciplines and increasing PG seats in country Phase II	DME	8.93 crores	Nil	60 % 40%



**Figure 5.2: Inauguration of 400 metre Synthetic track by Honourable Chief Minister Sri Pinarayi Vijyan**

### Major Equipments Purchased in year 2025

Table 5.9 presents the details of major medical equipment purchased in 2025 across various clinical and support departments using Plan Fund, HDS Fund, and KASP Fund.

**Table 5.9: Details of major equipments purchased in 2025**

Sl no	Name of Equipments	Department	Fund
1	IABP Machine	Cardiology	Plan Fund
2	ECMO	Cardiology	Plan Fund
3	RF Exited Co2 Laser	Dermatology	Plan Fund
4	Diode laser	Dermatology	Plan Fund
5	Point of care ultra sound machine	Emergency Medicine	Plan Fund
6	BERA with OAE	ENT	Plan Fund
7	Dual Chamber Pace Maker	Emergency Medicine	Plan Fund
8	Ventilators	General medicine	Plan Fund
9	Ultra Sound Color Doppler	Urology	Plan Fund
10	RO Water Plant	CSSD	HDS Fund
11	Portable Musculoskeletal USG Machine	Physical medicine	KASP Fund
12	Hematology Analyzer	Central Lab	HDS Fund

13	Accessories for Ultra Sound machine	Radio diagnosis	HDS Fund
14	Multipara Monitor With Capnogram & IPM	Gynecology	KASP Fund
15	Gas Chromatograph with fid ECD & NPD	Pharmacy college	Plan Fund
16	Haemo dialysis unit	Nephrology	Plan Fund

### Major Equipments Purchased in year 2024

Table 5.10 provides details of major medical equipment purchased during the year 2024 across multiple departments using Plan and HDS funds.

**Table 5.10: Details of major equipments purchased in year 2024**

Sl no	Department	Equipment name	Fund	Cost
1	Anaesthesiology Department	Multiparamonitor With Anaesthesia Gas Monitor	PLAN FUND	869360
2	Anaesthesiology Department	Flexible Video Bronchoscope System	HDS FUND	575000
3	Cardio Thoracic Surgery Department	Anaesthesia Workstation	PLAN FUND	5316440
4	Cardiology Department	Cardiac Oct With Ffr	PLAN FUND	11500000
5	Cardiology Department	Tmt Machine	HDS	1579980

			FUND	
<b>6</b>	College Of Pharmaceutical Sciences	Digital Differential Scanning Colorimetry(Thermal Analysis System)	PLAN FUND	2499950
<b>7</b>	College Of Pharmaceutical Sciences	Gas Chromatograph (Gc) With Fid,Ecd And Npd	PLAN FUND	2478000
<b>8</b>	College Of Pharmaceutical Sciences	Scientific Microwave Synthesizer	PLAN FUND	515424
<b>9</b>	Emergency Medicine	Trauma Training Simulator	PLAN FUND	1499990
<b>10</b>	Ent Department	Brain Evoked Response Audiometry (Bera) Model B	PLAN FUND	1097250
<b>11</b>	Forensic Medicine Department	Four Body Mortuary Cabinet	PLAN FUND	683832
<b>12</b>	Gynecology/Obstetric Department	Ultrasonic Cutting And Coagulation With Rf Vessel Sealing	PLAN FUND	2197930
<b>13</b>	Medical Gasplant	Centralized Medical Gas Pipeline System(Medical Gas	PLAN FUND	13335000

		Plant)		
<b>14</b>	Microbiology Department	Automated Blood Culture System Model B	PLAN FUND	1533760
<b>15</b>	Microbiology Department	Gel Electro Phoresis And Documentation Unit	PLAN FUND	994850
<b>16</b>	Pathology Department	Grossing Station	PLAN FUND	577020
<b>17</b>	Paediatric Department	Bubble Cpap System	PLAN FUND	769860
<b>18</b>	Urology Department	Hi-Flow Co2 Insufflator	HDS FUND	502003
<b>19</b>	Urology Department	Led Light Source	HDS FUND	1099750

### Infrastructural Achievements:

#### New Building:

Table 5.11 summarizes the details of building construction and infrastructure development works undertaken during the period 2021–2023.

**Table 5.11: Details of buildings constructed from 2021-2023**

2021-2022	2022-2023	2023-2024
<ul style="list-style-type: none"> <li>Construction and renovation of Medical &amp; Para Medical Hostels for Under Graduate &amp; Post Graduate Students- Paramedical Hostel Construction- Comprehensive AS received for rs 22.71 crore- PWD have prepared and structural drawing</li> <li>Construction of Post Graduate Hostel- 1st Phase – Comprehensive AS received for Rs 28.16 crore- PWD is prepared Detailed AR drawing</li> </ul>	Construction of ramp and vehicle parking shed to differently abled persons at consultancy block building of gmchc- work completed by pwd	Establishment & modernization of Drug Store under DME- Construction of Drug Store- Comprehensive AS received for Rs 9.5 crore - submitted to AR wing

**Major Installations:**

Table 5.12 outlines the major installations carried out during the period 2021–2023 to strengthen diagnostic and treatment facilities.

**Table 5.12: Details of major installations from 2021- 2023**

2021- 2022	2022-2023	2023-2024
<ul style="list-style-type: none"> <li>Installation of new Cathlab for Rs 5.4 crores. More 3000 cathlab procedures like angiogram and angioplasty are done by using this machine. More</li> </ul>	Digital radiography were installed in the year 2023 an amount of Rs 1.75 crores were utilized for the purchase of this	The year 2023-2024, we have purchased IABP machine and ECMO in cardiology department. For improving treatment

<p>than 3000 patients are undergone treatment by using this machine</p>	<p>machine. More than 2500 patients were benefited.</p> <p>An amount of rs 1.15 crores were expended for purchase of Cardiac OCT machine allows detailed evaluation of coronary atherosclerotic plaques and fills up the gaps in conventional invasive coronary angiography. Around 500 patients were treated by using this machine</p>	
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## 5.4. Future Plans

### 1. Compound Wall

GMC Kannur has one of the largest campuses in the state of Kerala among medical colleges. This has led to the public infringing on the campus sites without permission and usage of campus roads as public roads. We are also given land for the expansion of the highway which has redistributed the frontage of the campus. Hence it is necessary to create a compound wall for the campus at least on the front side and with fencing of rest of areas for the safety and security of everyone within the campus as well as clear identification of the premises.

### 2. Institute Of Chest and TB with Infectious Diseases

The institute which was once started as TB sanatorium has now prospered into a sprawling medical college catering to various broad specialties and super specialty

patients. In its parent agreement, it is mandatory that TB patients are given priority of care along with free treatment as long as the institute stands. With the increase of other clinical departments, the number of beds dedicated to TB patients had come down.

The new proposed block includes a dedicated Chest and TB block with Infectious diseases combined. The pandemic has necessitated a dedicated area for infectious diseases.

**Plan:** 5 Floored Building with options for future expansion- 180 ward beds, 110 rooms, 30 ICU beds, 20 HDU beds

Department of Respiratory Medicine and Department of Infectious Diseases

Ground Floor: OP Area, Procedure Rooms, Side labs, Xray Unit, CSSD, Mortuary, Triage and Isolation area.

First Floor: Respiratory Medicine Ward – 80 beds, Resp ICU- 15 beds

Second Floor: TB Ward – 80 beds (Male and Female), Isolation Rooms- 50, TB ICU with MDR and XDR TB isolation – 30 beds

Third Floor: Infectious Disease Ward – 70 beds, ID ICU- 20 beds

Fourth Floor: ID isolation Rooms – 60 rooms, HDU: 20 beds, OT - 4

Fifth Floor: Department Spaces, Classrooms

Sixth Floor: Negative pressure ICU 40 beds, VIP Rooms 25 beds

Total Area: 200000 sqft

**Total Cost Construction: 125 crores**

### **3. Interns Hostel**

At present we don't have an intern's hostel. Interns are occupying departmental spaces and examination halls which are converted to makeshift hostel facility. With over 6 students sharing the same room, we had issues during COVID with rapid spread among interns. With the college planning and proposing for increase in UG intake to 150 per year, we would have to invest in hostel which can accommodate

the same.

**Plan:** 3 floors accommodating 150 interns and 3 wardens.

Dual accommodation and common bath area spanned across three floors.

Total Area: 25000 sqft

**Total Cost Construction: 30 crores**

#### 4. PG Hostel

GMC Kannur doesn't have a dedicated PG hostel. At present, PG residents are being accommodated within the hospital building on the top floor which was initially planned as isolation rooms and VIP rooms. With a surge in number of cases since the takeover and increase in PG seats, we are anticipating a modest increase in the number of PGs to 80/year (Calicut 250/yr. Trivandrum 300/yr). With 3 years totalling to 240 PGs at any point in time. If NMC insists on having PG seats in all the pre and para medical courses, then the number would climb to 100. Once the super specialty departments become full-fledged, the number is going to increase even further.

**Plan:** Accommodation for 250 PG residents with single room accommodation. Ground Floor with Mess, Recreational Facilities and common area. 4 floors with option to expand further.

Total Area: 60000 sqft

**Total Cost Construction: 30 crores**

#### 5. SR Quarters

Senior Residents are presently accommodated within the hospital along with PGs and some with family in the hospital quarters. For smooth running of the institution and to provide expert care in all areas 24 x7, we need to have 100 residents/ year.

**Plan:** Accommodation for 100 SRs, with studio apartment.

Total Area: 60000 sqft

**Total Cost: 30 crores**

## 6. Diagnostic Centre

The centre is envisioned so as to ensure that patients/bystanders can come to a single centre for all their investigation needs, from radiology to lab. The centre will be connected through eHealth with the entire hospital and only one trip will be needed for the patient for all sets of investigations. The data procured will be visible immediately to the clinician in the OP, ICU, wards etc. Moreover, a total lab automation system with dry chemistry will provide minimal blood draws, lesser contaminations, minimise manpower requirements, decrease the turnaround time and prevent wastage of water.

**Plan:** Creation of dedicated space for all the investigative modalities, attached to the main hospital. Department of Radiology, Department of Laboratory Sciences.

Ground Floor- Radiology- 128 slice CT, 3T MRI, 5 USG Rooms, 2 DR, Fluoroscopy, Mammography, Department Spaces

First Floor – Central Lab- Haematology, Biochemistry, Immunology, Microbiology

Total Area: 45000 sqft

**Total Cost Construction: 25 crores**

## 7. IMCH Block

**Plan:** IMCH block will bring OBGYN, Paediatrics, Paediatric Surgery and Neonatology services under one umbrella.

OBGYN- Ward 260 beds, 100 bed Labour Room, 30 ICU beds

Paeds- Ward 100 beds, ICU 50 beds, HDU 20 beds

Neonatology – ICU 90 beds

Paediatric Surgery- Ward 30 beds, ICU 30 beds

Ground Floor- OP spaces, OB & Paed ED, Specialty Clinics, Procedure rooms, Radiology

First Floor- Labour Room with OT, NICU 30 beds

Second Floor- Paeds Ward 130 beds, HDU 20 beds, Isolation Rooms 15 beds

Third Floor- OBG Ward 130 beds, Gynae Ward 100 beds, Septic ward 30 beds

Fourth Floor- ICU Complex – Paeds 30 beds, NICU 30 beds, Negative Pr 10 beds, Heamat 10 beds

Fifth Floor – OT Complex – Gynae OT 4, Paed Sx 2 OT, Post OP ICU 20 beds, Surgical 30 beds, NICU 30 beds.

Sixth Floor – Departmental Spaces

Total Area: 210000 sqft

**Total Cost Construction: 250 crores**

### **8. Superspecialty Block**

**Plan:** SSB will include all the major super specialty departments- Cardiology, Cardiac surgery, Neurology, Neurosurgery, Nephrology, Urology, Gastroenterology, Gastrosurgery, Critical Care

Ground Floor- OP spaces with Procedure rooms for all specialties,

First Floor- Cardiology and CVTS Wards, CCU, Cath Lab

Second Floor- Nephrology and Urology Wards, HDU

Third Floor- Gastroenterology and Gastrosurgery Wards, HDU

Fourth Floor- ICU Complex- Critical Care

Fifth Floor- OT, Post OP ICU, Transplant Units, CSSD

Sixth Floor- Neurology and Neurosurgery

Seventh Floor- Isolation rooms and VIP Rooms

Seventh Floor- Department Spaces, Classrooms, Library

Total Area: 520000 sqft

**Total Cost Construction: 500 crores**

### 9. Library And Examination Halls

**Plan:** Creation of separate Library Complex with Examination Halls and Lecture theatres.

Ground Floor- Central Library

First Floor- IT Library, Valuation Centre, Cafeteria

Second Floor- Examination Hall for 150 students

Third Floor- Examination Hall for 150 students, Lecture Hall 180 capacity

Total Area: 80000 sqft

**Total Cost Construction: 50 crores**

### 10. Centralised Medical Gas Plant

With the increasing number of patients and newer buildings we need a comprehensive overhaul of the existing central medical gas plant which has machinery as old as 15 years.

### 11. Hostel For Men And Women

With an increase of 60 to 100 BDS seats and requiring a unified campus for Dental college, with hostel facilities nearby the college, we require construction of a new BDS hostel for men and women. The space will also accommodate MDS students.

Total Area: 80000 sqft

**Total Cost Construction: 50 crores**

### 12. Administrative Block

Dedicated area for administrative work and offices so that public and students can finish their office requirements within one umbrella

### 13. Quarters For Doctors

With an increasing number of patient care services and being a government institution, accommodation for transferred doctors is necessary so that their services are made available at all times. Plan is to construct 48 numbers of doctors

quarters as a block of 24 each

Total Area: 70000 sqft

**Total Cost Construction: 40 crores**

#### **14. Quarters For Nurses**

With an increasing number of patient care services and being a government institution, accommodation for transferred nurses is necessary so that their services are made available at all times. Plan id to construct 32 nurses quarters for family accommodation as a single block

Total Area: 35000 sqft

**Total Cost Construction: 20 crores**

#### **15. Nurses Hostel**

We need to provide accomodation for 100 nursing staff in addition to the family quarters. For this, studio apartments can be constructed with dual accommodation.

Total Area: 35000 sqft

**Total Cost Construction: 20 crores**

#### **16. Department Of Forensic Medicine & Mortuary Complex**

Plan: Construct an advanced mortuary complex along with Department of Forensic Medicine

First Floor: Mortuary Complex

Second Floor: Department Space with Museum & Library

Total Area: 20000 sqft

**Total Cost Construction: 10 crores**

#### **17. Cancer Institute**

PIAN: Construction of cancer institute with LINAC

GROUND FLOOR: OP & LINAC-

First Floor: operation Theatre, Laboratory, chemotherapy

Second Floor: Ward female 100 beds

Third Floor : Ward beds 100 mate

Fourth Floor : Department room E Library

Total Area: 375000 sqft

**Total Cost Construction: 180 crores**

### **18. IT infrastructure Development**

Plan: Entire infrastruc<sup>6</sup> development should be IT supported. IT infrastructure development and networking which are not included in the E-health project should be done especially in the academic and research block. Fast and reliable internet facility should be there. Campus wide wireless network facility with zero black area along with Modern surveillance system is included in the plan

**Estimated Cost: 15 crores**





**Figure 5.3: Proposed Critical Care Block**

## CHAPTER 6

### SPECIFIC PROGRAMMES

#### 6.1 Introduction

Kerala offers several government schemes for free or subsidized medical care, primarily through the following schemes. This is a cash less treatment for the beneficiaries.

#### 6.2 Government Schemes Implemented

The following are the initiatives by Central and State governments, by aiming to eliminate 'out of pocket' expenses for treatment (Table 6.1).

**Table 6.1: Names of various Central and State Government Initiatives**

No.	Scheme
1.	<b>KASP</b> (Karunya Arogya Suraksha Paddhathi)
2.	<b>JSSK</b> (Janani Shishu Suraksha Karyakram)
3.	<b>RBSK</b> (Rashtreeya Bal Swasthya Karyakram)
4.	<b>Arogyakiranam (AK)</b>
5.	<b>KBF</b> (Karunya Benevolent Fund)
6.	<b>Comprehensive Health Assurance Scheme (ST)</b>
7.	<b>Snehasanthwanam</b>
8.	<b>Medisep</b>
9.	<b>Ayushman CAPF</b>
10.	<b>CGHS</b> (Central Government Health Scheme)
11.	<b>ECHS</b> (Ex-Serviceman Contributory Health Scheme)

12.	<b>ESI</b> (Employees State Insurance Scheme)
13.	<b>AAWAZ</b>

Table 6.2 shows the details of funds received for each scheme in 2022, 2023, 2024, and 2025.

**Table 6.2: Government Schemes Funds**

<b>Scheme</b>	<b>2022 Fund Received (₹)</b>	<b>2023 Fund Received (₹)</b>	<b>2024 Fund Received (₹)</b>	<b>2025 Fund Received (₹)</b>
<b>KASP</b>	394908160	307957726	12082848	70543000
<b>KBF</b>	83647458	48141196	0	0
<b>JSSK</b>	834300	0	514000	3258174
<b>RBSK</b>	514722	0	0	241702
<b>Arogyakiranom</b>	0	0	0	0
<b>Comprehensive Health Assurance Scheme (ST)</b>	5000000	0	0	5000000
<b>Snehasanthwanam</b>	0	0	0	0
<b>Medisep</b>	19800000	44800000	46700000	21000000
<b>ECHS</b>	0	7190478	17220622	12441301
<b>Ayushman CAPF</b>	0	0	0	0
<b>AAWAZ</b>	0	0	102000	64000

Table 6.3 outlines various health-related schemes and their purposes, detailing the coverage and benefits provided to different population groups.

**Table 6.3: Various Schemes and their purpose.**

No.	Scheme	Coverage Details
1.	<b>KASP</b> (Karunya Arogya Suraksha Paddhathi)	As per this scheme, the benefiting family is eligible for free treatment up to ₹5 lakh per year. (All IP treatment expenses, including medicines are free)
2.	<b>JSSK</b> (Janani Shishu Suraksha Karyakram)	Treatment including medicines for pregnancies and children up to 1 year is provided at free of cost.
3.	<b>RBSK</b> (Rashtreeya Bal Swasthya Karyakram)	Children, with genetical issues, from 1 yr to 18 years, are provided cashless treatment, including medicines.
4.	<b>Arogyakiranam</b>	Children from 1 yr to 18 years, whose parents are not a tax payer or government employee, are eligible for cashless treatment.
5.	<b>KBF</b> (Karunya Benevolent Fund)	families whose annual income is below ₹3 lakhs, are eligible for cashless treatment up to ₹2 lakhs.
6.	<b>Comprehensive Health Assurance Scheme (ST)</b>	Free treatment scheme for Scheduled Tribes.
7.	<b>Snehasanthwanam</b>	Free treatment for Endosulfan victims.
8.	<b>Medisep</b>	Cashless treatment up to ₹5 lakhs per year for Kerala state employees and pensioners.
9.	<b>Ayushman CAPF</b>	Cashless treatment for service persons and dependents in various Central Armed Police Forces.

10.	<b>CGHS</b> (Central Government Health Scheme)	Cashless treatment for Central government pensioners.
11.	<b>ECHS</b> (Ex-Serviceman Contributory Health Scheme)	Ensures cashless treatment for Ex-servicemen.
12.	<b>ESI</b> (Employees State Insurance Scheme)	Speciality treatments are provided at free of cost to the ESI beneficiaries.
13.	<b>AAWAZ</b>	As per the scheme, the migrant workers in Kerala are eligible for cashless treatment for a sum of ₹25,000/- and ₹2 lakh rupees as accident death coverage.

### 6.3 Department-Led Public Health and Special Programmes

#### Cancer Screening Programme –

#### Arogyam Anandham



**Figure 6.1: Poster of Arogyam Anandham**

GMC Kannur had successfully screened a total of 2101 women above the age of 30 years (plus 70 in Mattool South FHC area) as on 8/3/2025, Women’s Day, at the end of one

month-long

Arogyam Anandham; programme for breast cancer and cervical cancer. The team comprising of administration, Depts of OBG, Community Medicine, Surgery, Radiodiagnosis, Pathology, the Control Room and IT team with the participation of Medical, Dental, Nursing



**Figure 6.2: Snapshot from community-based Cancer screening and awareness programmes**

Colleges and Pharmacy under graduate and Postgraduate students. We were able to organise dedicated screening camps inside the hospital as well as outside, at the community level. Out of 2101 screened females, a total of 887 members of staff were screened among 1100 female members and the rest 1214 females were public individuals. Besides 1342 pap smear were taken as a part of cancer campaign.



rapidly.

There is often no effective treatment for this. Joint replacement surgery is effective for joint diseases that are very painful and other treatments are ineffective. Pariyaram has been performing this surgery for 5 years now. Using a CT scan of the facial bones, the face is constructed using 3D printing and then the treatment is planned. The part of the face affected by the tumor is removed using a computer program and the removed part is 3D printed using titanium and reconstructed.

The use of digital technology makes it possible to surgically remove the tumor with great precision and immediately reconstruct the removed area without any distortions.

A 23-year-old man with a large tumor on one side of his lower jaw underwent surgery using digital technology and reconstruction, including the jaw joint. Total joint replacement. Just like knee and hip joints can be replaced, the jaw joint can also be replaced. This surgery was performed in 2019. At that time, this surgery was available in only two or three hospitals in Kerala.

A young woman who was born unable to open her mouth was able to open her mouth and correct her underdeveloped jawbone through joint replacement surgery. Operating on the joints on both sides of the face at the same time is time-consuming and requires great precision.

After the operation, the patient recovered from the facial deformity and joint problems. Distraction treatment is also available here for patients with facial growth deficiency due to a cleft palate. This problem is solved by bringing the upper jaw and nose forward using digital technology.

A concise description of significant departmental initiatives such as disease surveillance, telemedicine, early intervention services, outreach activities, and specialty clinics.

#### **6.4 Research and Surveillance Programmes**

We are a medical college level VRDL funded by DHR ICMR. We have a BSL 2 lab to perform molecular diagnosis of important viral infections. We are also part of Pan India SARI ARI surveillance project by DHR ICMR.

GMC Kannur is one of the sentinel surveillance sites for zoonosis under NOHPPCZ One

Health Program.

Microbiology department is also a stake holder in KARSNET program under NCDC. Antimicrobial stewardship is also a high priority agenda of the department.

Microbiology department is an integral part of HIC activities of GMC Kannur. We are actively involved in Airborne Infection Control initiative.

## **6.5 Community Outreach Activities**

### **Field based training**

- Training programme on IMNCI for Anganwadi workers held at AWTC, Pinarayi
- NRCP training for Nursing officers in health services kannur
- Healthy ageing – awareness among geriatric population at Vayalam readers centre, Ulikkal Panchayat, Aralam village, RDO office Thalassery,
- Awareness regarding State Old age policy for police panchayat members, ICDS , Senior citizen organisation members
- Training for palliative care volunteers
- Training on NCD for teachers
- Awareness and pamphlets distribution by students and faculty regarding Antimicrobial resistance by visiting the houses
- Awareness rally on One Health for general public by students and faculty
- Training and awareness on water borne diseases
- Training on animal bite management for healthcare workers
- Training on AIDS awareness for college students
- Training on monsoon related diseases – control and prevention for hotel workers
- Awareness on geriatric problems for senior citizens

### **Medical camps**

- Conducted cancer cervix and breast clinical examination screening camp at Mattool PHC, around 115 women were screened and medical consultation provided.
- Conducted medical camp at Pariyaram Panchayat in May to screen Non communicable disease and blood investigation to check cholesterol, fasting blood

sugar and hemoglobin level, around 110 persons were examined. Awareness on NCD and proper control measures were explained.

- Medical camp conducted in field practice area
- Conducted school health check up camp at Kendriya Vidyalaya Keltronnagar, Kannur for 5 days in October. Community Medicine, ENT, Ophthalmology and Dental department did the health checkup.

### **Assessment of Health status of Kannavam tribal population by house-to-house visit**

#### **Public Health Observances**

- IAPSM WHD QUIZ Competition conducted at Department of community medicine
- Health education programme on World health day conducted at UHTC Kandangali by Dr. Praseeda and Dr. Aswini
- Awareness and campaign in field practice area of community medicine February, At UHTC by Dr. Praseeda
- Cancer awareness as part of World cancer day 2025 at field practice area and Hospital OP and wards
- World AIDS Day awareness class 2025
- Awareness regarding nutrition for community at Kulapuram during National nutrition week observation 2025

#### **Community responsive programs**

Covid 19 – surveillance, contact tracing, vaccination campaign, health education classes regarding prevention and care during Covid, data support to district authorities, counselling to covid affected persons regarding mental health

### **6.6 Academic and Clinical Support Initiatives**

A short overview of department-level contributions to specialized care, diagnostic services, and translational research.

### **6.7 Summary**

A brief concluding note on how these programs strengthen institutional service delivery and community impact.

## CHAPTER 7

### EDUCATION DEVELOPMENT PLANS

#### Academic Programs:

##### Medical Education Unit

1. 7<sup>th</sup> Induction programme for House surgeons (2015 Batch)-1/4/2019 to 2/4/2019
2. Post graduate research methodology workshop (2019 Batch)-25/10/2019 to 29/10/2019
3. Orientation programme for Phase 2 MBBS (2018 Batch)-5/11/2019
4. Induction programme for House surgeons (2015 Supplementary Batch)-2/12/2019 to 3/12/2019
5. Post graduate research methodology workshop (2020 Batch)-11/2/2021 to 12/2/2021
6. Orientation programme for Phase 1 MBBS (2021 Batch)-14/3/2022
7. Revised Basic Course Workshop in Medical Education Technologies-28/9/2021 to 30/9/2021
8. White Coat Ceremony for Phase 1 MBBS (2021 Batch)-25/3/2022
9. Orientation Programme on Electives for Faculties of GMC Kannur-1/9/2022
10. Research Methodology Workshop for Post Graduate Students (2021-22 batch)-29/9/2022 and 30/9/2022
11. Orientation on Electives for Phase 3 Part 1 Students (2019 Batch)-15/10/2022
12. Induction Programme for House Surgeons (2017 Batch) - 29/11/2022 and 30/11/2022
13. White Coat Ceremony for Phase 1 MBBS Students (2022-23 Batch) -6/1/2023
14. Orientation on Drug addiction and its legal aspects as a part of the Anti-drug Campaign in the State by the Excise Department 21/01/2023
15. Pariksha Pe Charcha 2023 Honourable Prime Ministers interaction with students, teachers and Parents- 27/01/2023

16. Induction programme for Foreign Medical Graduates proposed by NMC - 18/03/2023 and 19/03/2023
17. Faculty development Programme on Medicolegal updates, Documentation in Medical field and Medical ethics-25/03/2023
18. Research Methodology workshop for Post Graduates (2022 Batch) on 10<sup>th</sup> & 11<sup>th</sup> May 2023
19. Yoga Day Celebration on 21<sup>st</sup> June 2023
20. Breast Cancer awareness & Training on Breast self-examination-07/11/2023
21. Artificial Intelligence in Health Care & Transfusion Science and Cellular Therapy, Needle stick injury -19/12/23
22. Communication & Documentation-2/12/2023
23. Research Methodology Workshop for PG students-10<sup>th</sup> & 11<sup>th</sup> Jan 2024
24. Prevention of Obesity Pandemic-15/01/24
25. Orientation on Management of Snake bite, Dog bite and Alcoholic addiction-8/02/2024
26. Body & Mind-Balancing the Imbalances-22/02/24
27. Gender & Transgender health in Medical Education-28/02/2024
28. Induction Programme for House Surgeons-27<sup>th</sup> and 28<sup>th</sup> July 2024
29. Induction Programme for House Surgeons-30<sup>th</sup> and 31<sup>st</sup> August 2024
30. Orientation to mentorship to the faculty of GMC Kannur on 15/2/2025
31. Workshop on Research Methodology for Post Graduates of 2024 on 3<sup>rd</sup> and 4<sup>th</sup> of June 2025
32. Orientation Program for House Surgeons 2020 MBBS from 9<sup>th</sup> to 11<sup>th</sup> September 2025
33. Foundation Course for MBBS 2025-26 Batch for two weeks
34. Workshop on Enhancing Communication and Counselling Skills for Mentors on 18-11-2025



**Figure 7.1: Workshop on Enhancing Communication and Counselling Skills for Mentors on 18-11-2025**

### **Department of Psychiatry**

- \* Publications – 10
- \* Ongoing research activities – 5
- \* Conferences and CMEs attended-

National- 15 (ANCIPS, ANCIAPP, Kerala state, South Zone, Mid-term)

- As participant- 12

- As panelist- 3

### **Department of Radiology**

Academic Programs - 7

Publications - 6

Conferences & CME attended :2 as speaker, 2 as chair in state conferences

9 as participant

### **Department of Cardiology**

#### **Educational Development plan**

- Restructure our department library with all new educational armamentarium of AI era, so that it will attract our DM and DCVT students.
- Department has immense Cath lab data, which needs proper and easy data retrieval and utilisation for educational purpose
- To conduct monthly paediatric structural interventional workshop.

### **Department of General Medicine**

- Conduct regular CME programme in Department
- Weekly Friday club discussing interesting clinical cases Faculty involved in YIP by Government of Kerala as evaluators and mentors Faculty participates in various Health Education Programmes televised in local & state wide TV channels on topics including hyper tension, diabetes, infectious diseases etc
- API Clinical Skill Programme conducted as a part of training for Post Graduate trainees
- Participated in public awareness classes on the topic "Cancer – How to overcome"
- Hemophilia day celebration by Hemophilia society Kannur chapter on 26 th April 2019 at GMC Kannur
- Regular public awareness programme on world diabetes day, world hepatitis day etc yearly conducted under the initiative of medicine department

## Department of Obstetrics & Gynaecology

### Vision

- To produce graduates competent in knowledge, clinical skills, communication, ethics, and professionalism for safe women's healthcare.

### Mission

- To implement CBME through structured teaching, supervised skills training, continuous assessment, and patient-centred care.

### Core cbme goals

- Deliver competency-based training aligned with NMC.
- Strengthen skills via skill labs, simulations, and real-time clinical exposure.
- Ensure objective formative assessment with constructive feedback.
- Promote professionalism and respectful maternity care.

### Core Competencies

Normal labour & delivery, episiotomy & repair.

ANC/PNC care, FP counselling, IUCD insertion.

- Managing obstetric emergencies: PPH, eclampsia, obstructed labour.
- Basic gynaecological examination & OT assistance.
- Ethical conduct, communication & sensitivity.

## Department of Paediatrics

1. Improve Clinical Skills, Communication and counselling skills among Graduates and Post-Graduates
2. Promote research and Academic growth
3. Strengthen Faculty Improvement Programmes

## Department of ENT

### 1. Routine Teaching Programmes

- Undergraduate (UG) Teaching
- Theory classes (competency-based)

- Clinical postings (OPD, ward, OT, emergency)
- Small group teaching, bedside clinics
- Demonstration of ENT instruments
- OSCE-based skill training

### **Postgraduate (PG) Teaching**

- Seminars
- Journal clubs
- Case presentations
- Clinical pathology meetings (CPM)
- Radiology and tumor board discussions
- Surgical skills training sessions

## **2. CME, Workshops & Advanced Courses**

- Plan to conduct Regular CME programmes for students and faculty
- Plan to conduct Workshops on:
  - FESS
  - Microscopic ear surgery
  - LASER in ENT
  - Coblation adenotonsillectomy
  - Head & neck surgery

## **3. Academic Evaluation Programmes**

- Formative assessments (monthly/quarterly)
- OSCE, OSPE, viva voce
- Internal examinations for UG & PG
- Competency-based assessments as per NMC
- Procedure logbook assessments
- Mock practical exams for PGs

## **4. Research-Oriented Academic Programmes**

- PG dissertation guidance & methodology workshops

- Planning to implement Interdepartmental academic collaborations:
- Audiology/Speech
- Radiology
- Oncology
- Neurology
- monthly research review meetings

#### **5. Interdepartmental Academic Programmes**

- Planning to set up Joint clinics or teaching sessions with:
- Anesthesia (airway training)
- Pathology (tumor board)
- Paediatrics (paediatric airway)
- Neurology (vertigo evaluation)
- Pulmonology (OSA management)
- Combined grand rounds

#### **6. Digital/Modern Academic Programmes**

- Digital archive of ENT surgical videos
- ENT online teaching calendar
- Recorded classes and case discussions

#### **7. Student Welfare & Academic Support Programmes**

- Mentorship programme for UGs/PGs
- Academic orientation for new residents
- Remedial classes for UG students
- Career guidance (fellowships, exams, research pathways)

#### **Department of General Surgery**

- Laser Proctology Workshop on 26/026/2025

#### **Department of Orthopedics**

- Clinico- Pathological conference 2

- Clinico- Radiological conference 2
- Clinical Seminars 23
- Journal Clubs 23
- Case presentations 20
- Group discussions 5
- Guest lectures 2
- Death Audit Meetings 3

### **Department of Nephrology**

1. Daily teaching for Diploma student in dialysis (on non OP days )
2. Topic Discussion morning 8. 30 am to 9. 30 am – medicine JR ( when posted )
3. Teaching/ topic discussion – MBBS student (when posted as electives)

#### 1.Conference & CME

- As speaker / panellist/chair: 2
  - As participant: 4
2. Training program conducted: 1
  3. Training program attended: 2
  4. Public awareness program: 2

### **Department of Gastroenterology**

- Public awareness classes, Public demonstration classes, Classes for staff and students regarding various aspects of Gastroenterology and Hepatology.

### **Department of Neuro Medicine**

- Teaching academic and non-academic Junior Residents posted in neurology department (Regular topic discussions and case discussions)
- Teaching programme for neuro technicians to update their knowledge and sharpen their skills
- Neurology case discussions with junior residents of medicine and paediatric departments.

### **Department of Respiratory Medicine**

In addition to UG and PG teaching:

- Conducted 8 conferences in last 6 years-( 2 national, 2 state level and 4 institutional level)
- Conferences & CME attended-We have attended 18 national conferences as faculty more than 22 national conferences as participants to update and disperse our knowledge.
- Patient or public awareness programs conducted namely -Public Awareness Classes on No Tobacco Day and World Diabetes Day.

### **Department of Anatomy**

- The department of Anatomy provides training for students under the following courses- MBBS, BDS, BSc Nursing, BSc MLT And Other paramedical diploma courses
- The academic programmes include the following:
  - Gross Anatomy- theory and practical demonstration with cadavers and wet specimen
  - Histology theory and practical demonstration of slides
  - Theory classes including embryology, neuroanatomy and comparative anatomy
  - Others methods including SDL, SGL, seminars, problem-based learning, OSPE.
  - Sensitising students to clinical cases through Early clinical exposure in collaboration with the clinical departments.
  - Assessment of students are done by formative and summative assessments by theory examinations (MCQs, long essay, short essay, short notes) and practical examinations including spotters, OSPE, viva voce and discussion of specimen and slides.
  - The record of the curricular, co-curricular activities and attendance of students are maintained through logbooks.
  - Regular department meetings
  - Cadaveric oath

### **Department of Urology**

- Surgery PGs are posted for one month each. They are trained in urology. Students posted for elective programs are being trained.

### **Department of Anaesthesiology**

1. MBBS electives as per curriculum
2. House surgeons orientation
3. MD anaesthesia classes
4. Diploma in anaesthesia technicians course
5. C Anaesthesia technicians trainees classes
6. BSc nursing students pain and palliative classes

## CHAPTER 8

### HOSPITAL DEVELOPMENT COMMITTEE DETAILS

#### 8.1 Introduction to HDC

HDS is registered under Societies registration Act 1860 on 7<sup>th</sup> of November 2019. Executive Committee consist of 8 official Member and 7 Ex official members. The society was also registered under section 12AA of Income tax act 1961 as charitable trust.

The Hospital Development Committees, which were formed with the participation of the people to bring about qualitative changes in the daily management and development activities of government hospitals in Kerala, are now being implemented in the primary health care level hospitals in the state and are working as a model across the country. The Hospital Development Committee formed at the Kannur Government Medical College Hospital has been functioning in a limited manner since its formation in 2019 and has grown to a position that plays a major role in the development of the hospital. Before the institution was taken over by the government, there were an average of five hundred patients and IP patients, but today the Kannur Government Medical College Hospital has developed to a level where it provides services to 1500 to 2000 OP patients and about seven hundred IP patients daily. Today, Kannur Government Medical College Hospital is one of the best medical college hospitals in the state with 20 specialty departments, 9 super specialty departments, 18 operation theaters and two catheter labs. Since a separate hospital development committee has not been established for Kannur Government Medical College Hospital, the development committee of Kannur Government Dental College Hospital is also being handled by the Kannur Government Medical College Hospital Development Committee.

As per the provisions of the bylaws of the Hospital Development Committee, the Kannur Government Medical College Hospital purchases equipment required for diagnosis, treatment and care, conducts annual maintenance of expensive hospital equipment, purchases medicines and other items required for daily use, prepares building facilities, maintains law and order and cleanliness in the hospital, provides ambulance facilities, appoints necessary staff for the smooth running of different departments in the hospital,

and collects building rent and issues visitor passes.

## 8.2 Fund Utilization

Table 8.1 shows the fund details from 2019- 2025.

**Table 8.1: Details of Year wise Fund**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	Total
Wages	0	691550 1	885116 9	304945 99	494109 99	571922 25	<b>152864 493</b>
AMC charges		389878 5	557919 0	124061 08	100724 02	794331 9	<b>398998 04</b>
Consumables	11200	816584 02	394706 38	394939 85	307056 02	385223 88	<b>229862 215</b>
Medicine purchase		917359 16	208044 878	445716 613	369156 497	434532 840	<b>154918 6744</b>
Hospital Expenses	43249	324375	251321 7	135120 94	816248 9	163376 4	<b>261891 88</b>
Repair & Maintenance	59394	137131 3	356322 4	431763 0	470203 2	225800 24	<b>365936 17</b>
Loading & Unloading		128638	87022	242126	204463	295887	<b>958136</b>
Postage & Telephone		4511	46976	64233	46635	99205	<b>261560</b>
Printng & Stationery		146933	218987	259228	165054	713720	<b>150392 2</b>
Transportation charges		166890	11000	83593	97946	103309	<b>462738</b>
Vehicle Maintenance		122842 0	241170 5	225665 7	151633 6	280864 6	<b>102217 64</b>

Professional Charges		101940 0	904092 5	555524 0	355205 0	401164 7	<b>231792 62</b>
Water Expenses					164544 2	208389 5	<b>372933 7</b>
Diet to Poor Patients		147711 5	247172 4	242423 2	305636 5	482912 2	<b>142585 58</b>
Lab Investigation Charges					334252 5	268602 0	<b>602854 5</b>
Miscellaneous Expenses	60242	177691	97393	11332	65971	227731	<b>640360</b>
Laundry charges					613970	52767	<b>666737</b>
Mathruyanam Scheme					829566	145473 0	<b>228429 6</b>
Renovation Expenses					274343 9	490000 0	<b>764343 9</b>
Disposal of Telecobalt					214460 0	49000	<b>219360 0</b>
Electricity Expenses					397872 18	232370 23	<b>630242 41</b>
Rates & Taxes			8680	644970	69942	77048	<b>800640</b>
Other Expenses	3020	25216	192818	442603	719483	511046 7	<b>649360 7</b>
TDS deducted		9803	181643	943852	190306 2	759316	<b>379767 6</b>
GST paid		126570 32	222492 82	345310 11	290701 40	265004 32	<b>125007 897</b>
Depreciation		220284	298504	952398	170027 1	386960 8	<b>704106 5</b>

Free treatment to patient		79661	118458	136020	309559	247756	<b>891454</b>
Advertisement charges			128205	288081			<b>416286</b>
Covid 19 expenses		629748 3	776600 9	88190			<b>141516 82</b>
Survey Expenses				133000 0			<b>133000 0</b>
Drivers Batha		234500	146000	54180			<b>434680</b>
Exhibition Expenses				106880			<b>106880</b>
Stipend to Trainees			110000				<b>110000</b>
Labour Welfare fund					16819	30361	<b>47180</b>
Deposits & Advances given	15330 33	304429 4	420000	424532 3	799372 1	161860 7	<b>188549 78</b>
<b><u>Fixed Assets</u></b>							<b>0</b>
Weighing Machine	10015						<b>10015</b>
Land Phone	4436						<b>4436</b>
Electrical Equipments		173180	656945	932505	196018 5	343046 0	<b>715327 5</b>
Hospital Equipments				457722	207400 2	879450 0	<b>113262 24</b>
Computer & Accessories		481159	35566	41804	614867	193564	<b>136696 0</b>

Machinery				163000	372430		<b>535430</b>
Furniture & fittings			466117	414664		459035	<b>1339816</b>
Building				4375930			<b>4375930</b>
Centralized AC						3451107	<b>3451107</b>
<b>TOTAL</b>	<b>1724589</b>	<b>213476502</b>	<b>315186275</b>	<b>606986803</b>	<b>578826082</b>	<b>664499523</b>	<b>2380699774</b>

### 8.3 HDC-supported Infrastructure

Some of the important things done by the Kannur Government Medical College Hospital Development Committee are:

- For smooth functioning of Hospital and patient care 222 security, paramedical, Nursing and ministerial staff were appointed.
- Separate HDS store and Fair Price HDS Pharmacy started
- Separate OP Pharmacy constructed using HDS fund
- Stand alone Medical Record section office created
- Separate Storage for Government Pharmacy created using HDS fund
- Old 1000 KV Generator renovated and made functional as stand by using HDS fund
- Separate IP Dialysis unit created and OP dialysis unit renovated
- Various hospital maintenance and renovation work carried out using HDS fund
- Separate KSEB low tension power line installed using HDS fund
- New HDU space and ICU dialysis facility created to cater critically ill patients
- Carries out Annual maintenance Contract for Major equipments yearly
- Parking facility arranged with nominal fees run with the help of Kudumbashree Unit

## CHAPTER 9

### INNOVATIVE PROGRAMMES & CENTRES OF EXCELLENCE

#### 9.1 Innovative Programmes

##### Department of Anatomy

- Research project by students- review of literature by students
- Early clinical exposure for students in collaboration with clinical departments
- Digital and e-learning- LMS based teaching (MOODLE, GOOGLE CLASSROOM)
- Community out reach-
- Exhibition of specimen for awareness in Anatomy.
- Awareness class on body donation.
- Quality improvement:
- Documentation as per NMC guidelines.
- Cadaveric handling, lab management, specimen preservation guidelines.
- Regular feedback from students.

##### Department of Cardiology

- Have done 20 TAVI and 3 TMVR
- Done first Leadless pacemaker in Government sector
- Routinely do CRT -P, ICD insertion
- Routinely do LBB pacing.
- Till 2023 have done 200 EP studies.
- Have conducted live case transmission in 2019 in international cardiology teaching CME. (Sanfrancesco) and in national teaching CME (Hyderabad) in 2020.
- DM trainees have regularly presented cases in India Live in 2021,2022,2023. ECHO conference held in kerala.

- Our faculties have regularly presented cases and given topic-oriented teaching lectures in international (London Valve 2025, TCT 2022 conference US) and national conference (India Live, ICC, CSI, India valve etc)
- Our faculties are regularly chaired scientific conferences in Kerala like ICCK, CSI, Back to basics etc)

### **Department of Obstetrics & Gynaecology**

- Regular Antenatal classes twice a month – For Antenatal patients
- Breast feeding Awareness Programme at GMC Kannur
- Adolescent Awareness classes and Health Education at various private and Government schools Kannur
- Gynecological Health Awareness class at Payyanur
- Breast Cancer and Cervical Cancer Awareness class at Women’s jail, central prison, Kannur **April 2019**
- Know your Body and know your Mind, Health Awareness Programme at Women’s college, Kannur
- EAGLE – Live endoscopy workshop conducted in the month of October 2025.

### **Department of Community Medicine**

- Tobacco cessation program: Standard training given to house surgeons for doing smoking cessation among smoker in-patients and follow-up for 2 weeks
- Kulapuram Model Health Project
- Kannavum Health status assessment of tribal population
- Pain & Palliative home-based care, extended to more areas
- Family Adoption Program, innovation done by collaboration with community organisations
- Arogyam anandam, innovation by training students and screening in community

### **Department of Dermatology & Venereology**

1. Tele dermatology
2. Public awareness on skin health and topical steroid misuse

3. Outreach program to create awareness regarding STIs and leprosy

## **Department of ENT**

### **Digital & Technology based Innovations:**

#### **1. Digital ENT endoscopy recording system with QR-code access for patients**

- Tele-ENT / Tele-audiology consults for remote areas
- AI-assisted audiometry or hearing screening programs
- Creating a digital repository of surgical videos for PG training
- Virtual Reality (VR) temporal bone dissection modules
- Online PG teaching portal with case archives, MCQs, seminars

#### **2. Patient-Centred Innovative Clinics**

- Plan to setup One-Stop Vertigo Clinic with Dix–Hallpike, VNG, and rehabilitation on the same day in collaboration with neurology
- Plan to setup Integrated Voice Clinic with ENT + Speech Pathology + Stroboscopy
- Planning to setup Combined ENT–Head & Neck Oncology Board (ENT + Onco + Radiology + Pathology)

#### **3. Surgical & Clinical Innovations**

- Day-care ENT surgery model for tonsillectomy, FESS, ear surgeries
- Endoscopic Ear Surgery programme with defined selection protocols
- Office-based ENT procedures
- Innovative airway safety program: difficult airway carts + simulation drills
- Standardised tracheostomy safety bundle (checklists + videos)

#### **4. Community & Public Health Innovations**

- School Hearing Screening Program using portable audiometers
- Community Vertigo Screening Camps
- Early detection programme for Head & Neck cancer in high-risk populations

- Noise protection awareness programme for factories / schools
- Smell & taste testing camp for post-viral patients

### **6. Research & Quality Improvement Innovations**

- Clinical outcome dashboards for FESS, tympanoplasty, head & neck cancer
- ENT Quality Improvement Projects (QIPs) in OPD, OT, and ward

### **7. Administrative & Service Delivery Innovations**

- Patient information videos in OPD (ear care, nosebleed first aid, tracheostomy care)
- Digital consent forms for procedures
- Departmental annual reports
- NMC/KUHS documents
- Internal assessment and logbook

### **Department of Biochemistry**

Conference & CME attended as participant:

- Health Research and Evidence based Medicine on 4th & 5th Feb 2025 at GMC Kannur.
- Secured NPTEL Certification in Basic Course in Biomedical Research (77%) in Oct 2022
- Curriculum Implementation Support Program from 21<sup>st</sup> to 23<sup>rd</sup> May 2019 at GMC Kannur

### **Department of Paediatrics**

1. Community Paediatrics and School Health Programmes
2. Simulation and Skill lab for teaching graduates

### **Department of Gastroenterology**

- Live demonstration of various endoscopic procedures to students, Staff and Public

### **Department of Respiratory Medicine**

- Training conducted for staff regarding airborne infection control measures.
- Fast tracking of patients with respiratory symptoms from reception implemented

### **Department of Urology**

- Training for house surgeons in common procedures like catheterisation is planned.

### **Department of Anaesthesiology**

- Monthly simulation programme for OT staff for emergency s like RTA with massive haemorrhage, maternal emergencies, on table sudden cardiac Arrest.

**CHAPTER 10****FUND UTILIZATION (PLAN, PMSSY, NHM, CSR etc)****Table 10.1 Year-wise Expenditure Summary**

<b>FUND ALLOTMENT DETAILS FROM 2019</b>					
<b>Sl. No.</b>	<b>Head of Account</b>	<b>Scheme</b>	<b>2019-20</b>		
			<b>Budget Provision</b>	<b>Allotment</b>	<b>Expenditure</b>
1	2210-05-001-84-00-00-00	Affiliation Fee	0	0	0
	2210-05-001-91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105-80-00-01-04	Medical Re-imbursment	100000	100000	84863
3	2210-05-105-80-00-02-04	Consolidated Pay	250000000	250000000	250000000
4	2210-05-105-80-00-04-01	Tour TA			
5	2210-05-105-80-00-04-02	Transfer TA			
6	2210-05-105-80-00-02-05	Daily Wages	0	0	0

7	2210-05-105-80-00-04-04	Leave Travel Concession	0	0	0
8	2210-05-105-80-00-05-01	Water Charges	0	0	0
9	2210-05-105-80-00-05-02	Electricity Charges	0	0	0
10	2210-05-105-80-00-05-03	Telephone Charges	0	0	0
11	2210-05-105-80-00-05-04	Other Items	0	0	0
12	2210-05-105-80-00-12-00	Scholarship & Stipend	13145000	13145000	13142579
13	2210-05-105-80-18	Maintenance	0	0	0
14	2210-05-105-80-19	Machinery & Equipments	0	0	0
15	2210-05-105-80-21-2	Repairs & Maintenance	0	0	0
16	2210-05-105-80-24	Materials & Supplies	0	0	0
17	2210-05-105-80-00-26-00	Implementati of Official Language	0	0	0

18	2210-05-105-80-00-34-03	Other Charges	0	0	0
	2210-05-105-80-00-45-00	POL			
19	6210-03-105-95	Loan	240000000	240000000	0
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0
Sl. No.	Head of Account	Scheme	2020-21		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee	0	0	0
	2210-05-001-91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105-80-00-01-04	Medical Re-imbursment	100000	100000	23996
3	2210-05-105-80-00-02-04	Consolidated Pay	950000000	950000000	950000000

4	2210-05-105-80-00-04-01	Tour TA			
5	2210-05-105-80-00-04-02	Transfer TA			
6	2210-05-105-80-00-02-05	Daily Wages	1000	1000	0
7	2210-05-105-80-00-04-04	Leave Travel Concession	0	0	0
8	2210-05-105-80-00-05-01	Water Charges	1000	1000	0
9	2210-05-105-80-00-05-02	Electricity Charges	50000	50000	50000
10	2210-05-105-80-00-05-03	Telephone Charges	50000	50000	50000
11	2210-05-105-80-00-05-04	Other Items	1000	1000	0
12	2210-05-105-80-00-12-00	Scholarship & Stipend	52988000	52988000	46043493
13	2210-05-105-80-18	Maintenance	0	0	0
14	2210-05-105-80-19	Machinery & Equipments	0	0	0
15	2210-05-105-	Repairs &	0	0	0

	80-21-2	Maintenance			
16	2210-05-105-80-24	Materials & Supplies	0	0	0
17	2210-05-105-80-00-26-00	Implementati of Official Language	1000	1000	0
18	2210-05-105-80-00-34-03	Other Charges	0	0	0
	2210-05-105-80-00-45-00	POL			
19	6210-03-105-95	Loan	1008000000	1008000000	1008000000
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0
Sl. No.	Head of Account	Scheme	2021-22		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee	1137300	1137300	1137300

	2210-05-001- 91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105- 80-00-01-04	Medical Re- imbursement	100000	100000	0
3	2210-05-105- 80-00-02-04	Consolidated Pay	950000000	950000000	928576944
4	2210-05-105- 80-00-04-01	Tour TA			
5	2210-05-105- 80-00-04-02	Transfer TA			
6	2210-05-105- 80-00-02-05	Daily Wages	188000	188000	0
7	2210-05-105- 80-00-04-04	Leave Travel Concession	10000	10000	10000
8	2210-05-105- 80-00-05-01	Water Charges	50000	50000	50000
9	2210-05-105- 80-00-05-02	Electricity Charges	27550000	27550000	27550000
10	2210-05-105- 80-00-05-03	Telephone Charges	1000	0	0
11	2210-05-105- 80-00-05-04	Other Items	0	0	0
12	2210-05-105-	Scholarship &	56138000	56138000	56137575

	80-00-12-00	Stipend			
13	2210-05-105-80-18	Maintenance	1000	0	0
14	2210-05-105-80-19	Machinery & Equipments	1000	0	0
15	2210-05-105-80-21-2	Repairs & Maintenance	0	0	0
16	2210-05-105-80-24	Materials & Supplies	0	0	0
17	2210-05-105-80-00-26-00	Implementati of Official Language	5000	1650	0
18	2210-05-105-80-00-34-03	Other Charges	360000	360000	360000
	2210-05-105-80-00-45-00	POL			
19	6210-03-105-95	Loan	0	0	0
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	7399091	7399091	7399091
21	4210-02-800-93-00-00-00	MLA Fund	3510365	3510365	3085045

Sl. No.	Head of Account	Scheme	2022-23		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee	0	0	0
	2210-05-001-91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105-80-00-01-04	Medical Re- imbursement	100000	100000	0
3	2210-05-105-80-00-02-04	Consolidated Pay	1083873000	558411369	547508655
4	2210-05-105-80-00-04-01	Tour TA			
5	2210-05-105-80-00-04-02	Transfer TA			
6	2210-05-105-80-00-02-05	Daily Wages	19000	6270	0
7	2210-05-105-80-00-04-04	Leave Travel Concession	10000	3300	0
8	2210-05-105-80-00-05-01	Water Charges	50000	50000	0
9	2210-05-105-80-00-05-02	Electricity Charges	52000	52000	0

10	2210-05-105-80-00-05-03	Telephone Charges	50000	16500	14406
11	2210-05-105-80-00-05-04	Other Items	100000	0	0
12	2210-05-105-80-00-12-00	Scholarship & Stipend	125000000	61250000	38609718
13	2210-05-105-80-18	Maintenance	1000	0	0
14	2210-05-105-80-19	Machinery & Equipments	1000	0	0
15	2210-05-105-80-21-2	Repairs & Maintenance	1000	0	0
16	2210-05-105-80-24	Materials & Supplies	1000	0	0
17	2210-05-105-80-00-26-00	Implementati of Official Language	5000	0	0
18	2210-05-105-80-00-34-03	Other Charges	100000	33000	0
	2210-05-105-80-00-45-00	POL			
19	6210-03-105-95	Loan	0	0	0

20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0
Sl. No.	Head of Account	Scheme	2023-24		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee			
	2210-05-001-91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105-80-00-01-04	Medical Re-imbursment	48000		1500
3	2210-05-105-80-00-02-04	Consolidated Pay	993792000		491144626
4	2210-05-105-80-00-04-01	Tour TA	15000		9460
5	2210-05-105-80-00-04-02	Transfer TA	5000		4676
6	2210-05-105-80-00-02-05	Daily Wages			

7	2210-05-105-80-00-04-04	Leave Travel Concession	5000		0
8	2210-05-105-80-00-05-01	Water Charges	50000		50000
9	2210-05-105-80-00-05-02	Electricity Charges	57000		57000
10	2210-05-105-80-00-05-03	Telephone Charges	25000		25000
11	2210-05-105-80-00-05-04	Other Items	50000		23520
12	2210-05-105-80-00-12-00	Scholarship & Stipend	94509000		91643627
13	2210-05-105-80-18	Maintenance	1000		0
14	2210-05-105-80-19	Machinery & Equipments	1000		0
15	2210-05-105-80-21-2	Repairs & Maintenance	1000		0
16	2210-05-105-80-24	Materials & Supplies	1000		0
17	2210-05-105-80-00-26-00	Implementati of Official Language	5000		0

18	2210-05-105-80-00-34-03	Other Charges	100000		20473
	2210-05-105-80-00-45-00	POL	1000		0
19	6210-03-105-95	Loan	0	0	0
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0
Sl. No.	Head of Account	Scheme	2024-25		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee	1136850	1136850	1136850
	2210-05-001-91-00-00-00	KUHS- Inspection Fee	5900000	5900000	0
2	2210-05-105-80-00-01-04	Medical Re-imburement	29000	20,880.00	2,850.00
3	2210-05-105-80-00-02-04	Consolidated Pay	544600000	451242348	451242348

4	2210-05-105-80-00-04-01	Tour TA	15000	10,800.00	6,133.00
5	2210-05-105-80-00-04-02	Transfer TA	5000	3,600.00	3,600.00
6	2210-05-105-80-00-02-05	Daily Wages			
7	2210-05-105-80-00-04-04	Leave Travel Concession			
8	2210-05-105-80-00-05-01	Water Charges	55000	55,000.00	55,000.00
9	2210-05-105-80-00-05-02	Electricity Charges	63000	63,000.00	63,000.00
10	2210-05-105-80-00-05-03	Telephone Charges	26000	26,000.00	25,992.00
11	2210-05-105-80-00-05-04	Other Items	50000	36,000.00	35,832.00
12	2210-05-105-80-00-12-00	Scholarship & Stipend	92500000	131181000	131180857
13	2210-05-105-80-18	Maintenance			
14	2210-05-105-80-19	Machinery & Equipments			
15	2210-05-105-	Repairs &			

	80-21-2	Maintenance			
16	2210-05-105-80-24	Materials & Supplies			
17	2210-05-105-80-00-26-00	Implementati of Official Language	5000	3,600.00	3,553.00
18	2210-05-105-80-00-34-03	Other Charges	50000	36,000.00	33,824.00
	2210-05-105-80-00-45-00	POL			
19	6210-03-105-95	Loan	0	0	0
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0
Sl. No.	Head of Account	Scheme	2025-26		
			Budget Provision	Allotment	Expenditure
1	2210-05-001-84-00-00-00	Affiliation Fee			

	2210-05-001-91-00-00-00	KUHS- Inspection Fee			
2	2210-05-105-80-00-01-04	Medical Re- imbursement	29000		
3	2210-05-105-80-00-02-04	Consolidated Pay	544600000		
4	2210-05-105-80-00-04-01	Tour TA	15000		
5	2210-05-105-80-00-04-02	Transfer TA	5000		
6	2210-05-105-80-00-02-05	Daily Wages	1000		
7	2210-05-105-80-00-04-04	Leave Travel Concession	3000		
8	2210-05-105-80-00-05-01	Water Charges	55000		
9	2210-05-105-80-00-05-02	Electricity Charges	69000		
10	2210-05-105-80-00-05-03	Telephone Charges	27000		
11	2210-05-105-80-00-05-04	Other Items	50000		
12	2210-05-105-	Scholarship &	103600000		

	80-00-12-00	Stipend			
13	2210-05-105-80-18	Maintenance	1000		
14	2210-05-105-80-19	Machinery & Equipments	1000		
15	2210-05-105-80-21-2	Repairs & Maintenance	1000		
16	2210-05-105-80-24	Materials & Supplies	1000		
17	2210-05-105-80-00-26-00	Implementati of Official Language	5000		
18	2210-05-105-80-00-34-03	Other Charges	50000		
	2210-05-105-80-00-45-00	POL	1000		
19	6210-03-105-95	Loan	0	0	0
20	2245-02-101-94-01-00-00	Disaster Management Fund form Collector	0	0	0
21	4210-02-800-93-00-00-00	MLA Fund	0	0	0

Table 10.2 Head wise performance year 2023-2024

Sl. No.	Fin. Year	Scheme	Amount Sanctioned	Amount Utilized	Purpose
1	2023-2024	2210-05-105-80-19 Machinery & Equipments	8 crores	5.71 crores 71 %	For Purchase of major Equipments in different departments
2	2023-2024	2210-05-105-80-24 Materials & Supplies	6.5 crores	4.05 crore 62%	For purchase of chemical consumable, electrical items, Medical oxygen etc
3	2023-2024	2210-05-105-80-34-3 Other Charges	4.5 crores	1.83 crore 42%	For purchase of instruments and other equipments which costs less than five lakhs In different department in this college
4	2023-2024	2210 - 05 - 105 - 80 -17 Minor Works	2.15 Crores	100%	The entire amount was transferred to PWD for executing the work.
5	2023-2024	2210-05-105-12 State PEID Cell	10 Lakhs	4.17 lakh 42%	For conducting field studies and training programmes related the peid cell activities

<b>6</b>	2023-2024	2210-05-105-99-34 State Board of Medical Research	6.11lakhs	1.58 lakhs 25%	For payment of research grants travel grants those who are undergone reaserch activites and for conducting CME/ workshop
<b>7</b>	2023-2024	2210 - 05 - 105 - 64 Faculty Improvement	9 lakhs	3.90 lakhs 44%	For providing training to the faculties
<b>8</b>	2023-2024	2210-06-001-99-34 Hospital Waste Management	50 Lakhs	30.05 lakhs 61%	For payment to IMAGE and purchase of coloured bags for segregation of bio medical waste.
<b>9</b>	2023-2024	2210-05-105-30 Revamping of Existing Infrastructure	150 Lakhs	102.6 lakhs 71%	For payments of AMC charges to different equipments and payment of stp
<b>10</b>	2023-2024	2210-05-105-79 Enduring Blood safety in Medical Colleges	20 lakhs	19.29 lakhs 97%	Purchase of blood safety equipments like deep freezer, refrigerator etc
<b>11</b>	2023-2024	2210-01-110-36 Standardisation of Maternal and Child Health in Medical	100 Lakhs	52.13 lakhs 52%	For Purchase of equipments instruments in paediatrics and OBG

		College Hospital			departments
12	2023-2024	2210-05-105-17 Strengthening of Paramedical Education	5 lakhs	2.97 lakhs 60%	For Purchase of chemical and consumable for paramedical education
13	2023-2024	2210-01-110-10 Creation of patient friendly hospital Environment in Medical Colleges	20 lkhs	100%	The entire amount was transferred to PWD for executing the work.
14	2023-2024	2210-05-105-38 Establishment & Modernisation of Drug Stores under DME	3.5 crores	100%	The entire amount was transferred to PWD for executing the work.
15	2023-2024	4210-03-105-72 Construction & Renovation of Medical and Paramedical CollegeHostels for Undergraduate & Post Graduate Students	3 crores	100%	The entire amount was transferred to PWD for executing the work
16	2023-2024	4210 - 03 - 105 - 18 Construction of UG,	5 crores	0	Administrative sanction is not

		PG Hostel			received for Current year.
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**Head wise performance for the year 2024-2025**

Sl. No.	Fin. Year	Scheme	Budget sanction	Amount Ualized	Remarks
1	2024-2025	2210-05-105-80-19: Machinery and Equipments	80000000	0	Administrative sanction not received
2	2024-2025	2210-05-105-80-24: Materials and Suppliers	65000000	0	Administrative sanction not received
3	2024-2025	2210-05-105-80-34: Other Charges	45000000	0	Administrative sanction not received
4	2024-2025	2210-05-105-80-17: Minor Works	21500000	65 Lakhs	The amount was transferred to PWD for executing the work.
5	2024-2025	2210-05-105-99-340C: State Board of Medical Research	800000	0	For conducting field studies and training programmes related the peid cell activities
6	2024-2025	2210-06-001-99-34 OC: Hospital Waste Management in Medical College	5000000	24.25 lakhs 50%	For payment to IMAGE and purchase of coloured bags for segregation of bio

		Hospitals			medical waste.
<b>7</b>	2024-2025	2210-05-105-12: State PIED Cell	900000	5.74 lakhs 64%	For payment of wages to staffs and providing field activities
<b>8</b>	2024-2025	2210-05-105-17: Strengthening of Paramedical Education	500000	2.28 lakhs 48 %	For purchase of instruments in the paramedical department
<b>9</b>	2024-2025	2210-01-110-36: Standardisation of facilities in Maternal & Child health units in Medical College Hospital	10000000	0	Administrative sanction not received
<b>10</b>	2024-2025	2210-05-105-64: Faculty improvement Programme	1000000	0	Administrative sanction not received
<b>11</b>	2024-2025	2210-05-105-30-34: Revamping of existing infrastructure and maintenance of high-end equipment in Medical Colleges	12500000	0	Administrative sanction not received

<b>12</b>	2024-2025	2210-05-105-79: Ensuring Blood safety in Medical Colleges	2000000	8.96 lakhs 45 %	Purchase of blood bank consumables equipments etc
<b>13</b>	2024-2025	2210-05-105-70: Setting up of Smart classroom	1000000	0	To create 2 smart classroom purchase procedure started
<b>14</b>	2024-2025	2210-05-105-56: Starting bio medical wing in all Medical colleges	1000000	0.5 lakhs 5%	For purchase of instruments in the biomedical department. All purchase procedure started.
<b>15</b>	2024-2025	2210-01-110-81: Pain and Palliative Care centre in all Government Medical College	1000000		Administrative sanction not received
<b>16</b>	2024-2025	2210-01-110-66: Security System Medical colleges and allied institutions	1000000		Administrative sanction not received
<b>17</b>	2024-2025	4210-03-105-18: Construction of Hostel for PG / UG students	50000000		Administrative sanction not received

<b>18</b>	2024- 2025	4210-03 -105-72: Construction & Renovation of Medical and Paramedical College Hostels for Undergraduate & Post Graduate Students	20000000		Administrative sanction not received
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## CHAPTER 11

### RESEARCH INITIATIVES & ACHIEVEMENTS

#### Department of Cardiology

##### 1. Research initiative

- Follow up study in Coronary artery ectasia
- LM bifurcation vs CABG institutional follow upstudy

#### Department of General Medicine

##### Dr. RanjitKumar.K.C

1. Pulmonary function tests and their correlation with glycemic control in type 2 diabetes mellitus in tertiary care centre.
2. Prevalence and clinical presentation of Post-COVID syndrome in patients recovered from acute COVID infections in North Kerala. Asian Journal of Medical Sciences. 2023 May, Vol-14(5): 3-7

##### Dr. SaroshKumar.K.K

1. Metabolic Syndrome and non alcoholic fatty liver disease among asymptomatic adults in Northern Kerala IJHCR.2021.4(16)314-317 4Association of serum ferritin in type 2 diabetes mellitus patients- an observational study IJPCR 2022 14(5)39-44
2. COVID-19 Vaccine Effectiveness in Preventing Severe Infections and Mortality among patients in Kerala, India, Digital Journal of Clinical Medicine, 2023; 5(5), 194-208
3. Physical and psychosocial burden experienced by women on maintenance hemodialysis. Journal of Education and Health Promotion

##### Dr. Surag.M.K

2. Haematotoxic snake bite: Regional snake species variation, clinical profile and outcome from South India Dr.Surag.M.K IOSR-JDMS Nov 2019

3. Demographic and clinical characteristics of Covid 19 mortality in Southern India a single centre observational study Dr.Manu Mathews, Dr.KhadeejaBeevi,Dr.Surag.M.K International Journal of health &clinical research

**Dr. Kadeeja. Beevi. B**

1. Demographic and Clinical characteristics of Covid -19 mortality in Southern India -a single centre observational study .Dr.Manu Mathews, Dr.KadeejaBeevi, Dr.Surag.M.K, International journal of clinical research 2022:5(1). 258-262 (Published 12 january 2022)

**Dr. Ramesan.K**

- 1 Clinical profile of Dengue Fever in a tertiary care centre in North Kerala
- 2 Body composition in patients with chronic obstructive pulmonary disease a case control study
- 3 Changing patterns of mortality in First and Second Covid 19 waves. A comparative study from Kerala India

**Dr.Sarin.SM**

- 1) Health problems of geriatric population of age group  $\geq 70$  years in rural Kerala, India: a cross sectional study. International Journal of Research in Medical Sciences 2019; 7:3486-9.
- 2) Metabolic syndrome and Non alcoholic fatty liver disease among asymptomatic adults in North Kerala. International Journal of Health and Clinical Research, 2021;4(16):314-317
- 3) Association of Serum Ferritin in Type 2 Diabetes Mellitus Patients- An Observational Study. International Journal of Pharmaceutical and Clinical Research 2022; 14(05): 32-37
- 4) First two cases of Monkeypox virus infection in travellers returned from UAE
- 5) Changing Clinical Profile of Dengue Fever Epidemic in North Kerala-A

Retrospective Study. Journal of Clinical and Diagnostic Research. 2022 Oct; Vol-16(10): OC23-OC26

- 6) Prevalence and clinical presentation of Post-COVID syndrome in patients recovered from acute COVID infections in North Kerala. Asian Journal of Medical Sciences. 2023 May, Vol-14(5): 3-7
- 7) COVID-19 Vaccine Effectiveness in Preventing Severe Infections and Mortality among Patients in Kerala. Digital Journal of Clinical Medicine. 2023; 5(5): 194-

#### **Dr. Manu Mathews**

1. Impact of diabetes on the severity of Covid 19infection in pregnant women-A single center descriptive study. Dr. Manu Mathews, Dr. Simi Kurian, Dr. V.P Reshmi - Diabetes. And Metabolic syndrome clinical research and review16(2022) 102362 (Published Jan 2022)
- 2 Demographic and Clinical characteristics of Covid -19 mortality in Southern India -a single centre observational study. Dr.Manu Mathews, Dr.KadeejaBeevi, Dr.Surag.M.K, International journal of clinical research 2022:5(1). 258-262 (Published 12 January 2022)
- 3 Changing pattern of Mortality in first and second Covid -19 waves. A comparatives study from Kerala,India. Dr.Manu Mathews, Dr,Ramesan,K, Dr.Harikrishnan  
  
International journal of epidemiological research Vol 9, issue 2, 2022 published 1 June 2022.

#### **Department of Obstetrics & Gynaecology**

##### **Published Research**

1. Simi Kurian, Mathews, M., & Divakaran, B. (2025). Comparison of the learning outcomes between flipped classroom and interactive lectures among medical undergraduates. Asian Journal of Medical Sciences, 16(3), 62–67.

2. Nambiar SS, Ajith S, Reshmi VP. Pregnancy Outcome in First and Second Trimester Covid Infection. Kerala Medical Journal. 2024 Apr 15;17(1):13-8. | <https://doi.org/10.52314/kmj.2024.v17i1.624>
3. Naser, A., Praveen, V., Kurian, S., & S, A.. (2023). Study of maternal and neonatal outcomes of placenta accreta spectrum in a tertiary care hospital. Asian Journal of Medical Sciences, 2023 VOL 14(5), 108-114. <https://doi.org/10.3126/ajms.v14i5.51370>
4. Dr. Simi Kurian, Reshmi V P Ajith. S. Impact of diabetes on the severity of covid 19 infection in pregnant women. A single centre descriptive study DIABETIC & METABOLIC SYNDROME CLINICAL RESEARCH & REIVIEWS (ELSEVIER) Vol 16 Issue 1, January 2022
5. Changing pattern of mortality in first and second Covid-19 waves: A comparative study from Kerala,India International Journal of Epidemiologic Research Vol 9, issue 2, June 2022
6. Prevalence and risk factors of neonatal covid 19 infection: a single centre observational study. Journal of obstetrics and gynaecology of India Feb 2021 Dr Ajith, Dr Reshmi, Dr Sabnam S Nambiar
7. KURIAN, Simi; S., Ajith; RAGHAVAN, Malini. Depression, anxiety, and stress among COVID positive pregnant women. **International Journal of Reproduction, Contraception, Obstetrics and Gynecology**, [S.l.], v. 10, n. 3, p. 1057-1061, feb. 2021. ISSN 2320-1789.
8. Covid 19, the Kerala experience: an observational, single centre retrospective study of outcome in Covid positive pregnancies., Int J Reprod Contracept ObstetGynecol 2020;vol 9,no.8(2020);Aug 2020 DR SABNAM S NAMBIAR, DR AJITH S,DR RESHMI V P
9. Covid 19 symptoms-does pregnancy alter the course of the disease? DR SABNAM S NAMBIAR, Dr Ajith S, Dr Reshmi V P IJRCOG 2020;9:5032-6
10. Nambiar S S, S. Ajith, V.P. Reshmi Assesing disease outcome in pregnancies in a tertiary referral centre in South India; A single centre Retrospective cohort study.J South Asian Federation ObstGynec 2020;12(5):335-339

11. Prophylactic antibiotics in patients with episiotomy following normal vaginal delivery; a randomised clinical trial. Garala NJ, Nambiar SS .International Journal Of Reproduction , Contraception Obstetrics And Gynecology .2020;83846-51.
12. Ajith S, Anusree V, Beena George, Shuguftha Sherin, Pooja Shaji (2024). Prevalence of Group B Streptococcus in pregnancy and its relation to obstetric outcome in a tertiary hospital in North Kerala. Natl. J. Physiol. Pharm. Pharmacol. (2024), Vol. 14(11): 2418 – 2422.

### **Waiting for publication**

1. Single Centre retrospective study on obstetric outcome of Covid infection in first and second trimester pregnancies: Dr Sabnam S, Dr Reshmi VP, Dr Ajith S
2. Study on contributing factors and fetomaternal outcome of maternal near miss cases in a tertiary care hospital: Dr Athulya, Dr Reshmi, Dr Vinod
3. Feto maternal outcome of preterm premature rupture of membrane in a tertiary referral centre of northern Kerala: Dr Mohasena, Dr Sumangali PK, Dr Simi Kurian
4. Correlation of Endometrial thickness with histopathological pattern in postmenopausal bleeding in a tertiary care centre in North Kerala: Dr Navya Havena Thomson, Dr Beena George, Dr Malini Raghavan
5. Maternal and perinatal outcome in early vs late onset pre-eclampsia in tertiary care centre at northern part of Kerala: Dr. Shuguftha Sherin, Dr. Veena Praveen, Dr. Omana. E. K
6. Fetomaternal outcomes in patients with abnormal uterine artery Doppler at 11-14 weeks of gestation: Dr. Divya Sivaprasad, Dr. Simi Kurian, Dr. Malini Raghavan
7. Clinical and epidemiological profile, Management and outcome of ectopic pregnancy: An observational study: Dr. Basima Tasneem, Dr. Reshmi V P, Dr. Omana E K.
8. Association of prepregnancy BMI with pregnancy and fetal outcome: Dr. Jumana, Dr. Malini Raghvan, Dr. Beena George.

9. Maternal factors and perinatal outcomes in preterm labor: a hospital based observational study: Dr. Fameena, Dr. Sumangali P K, Dr. Omana E k
10. Association of pregnancy associated plasma protein- A levels in first trimester with adverse pregnancy outcomes: A retrospective observational study: Dr. Joe Mary Antony, Dr. Beena George, dr. Simi Kurian

### **On going Research**

1. Indications and outcomes of hysterectomies done in a tertiary care hospital in North Kerala – a prospective observational study: Dr. Swathy Mohan. B, Dr. Sabnam. S Nambiar, Dr. Reshmi. V. P
2. A prospective comparative study on outcomes of IVF conceived pregnancies to spontaneously conceived pregnancies done in a tertiary care hospital in North Kerala: Dr. K. J. Roja, Dr. Vinod. K. Nair, Dr. Simi Kurian
3. Association of prepregnancy body mass index with pregnancy and fetal outcome: A descriptive study: Dr. Fathima Jumana, Dr. Malini Raghavan, Dr. Beena George.
4. An observational study on the relative frequency, types, associated factors, clinical presentation, management, and morbidity of ectopic pregnancy in a tertiary care centre of northern Kerala: Dr. Basima Tasneem, Dr. Reshmi V P, Dr. Omana E K.

### **Department of Community Medicine**

#### **Research projects (2021 onwards):**

- Epidemiological factors in snake bite deaths in Kannur district- A retrospective cross-sectional study 2025
- Psychological distress and associated factors among adult tuberculosis patients: a cross sectional study in Kannur district 2025
- Prevalence of known risk factors of Noncommunicable disease among adults in North Kerala- a record based study 2025
- Awareness attitude and willingness among women towards HPV vaccination- a cross sectional study in a Tertiary Care hospital in North Kerala 2025
- Knowledge, attitude and practice regarding antimicrobial resistance among adults

attending outpatient department of Government Medical College Kannur: A cross sectional study 2025

- Effects of Kolkkali training on physical fitness variables in adults of Northern Kerala: a quasi-experimental study 2025
- Effects of Kolkkali on the quality of life of adults of Northern Kerala: a quasi-experimental study 2025
- Effects of Kolkkali on metabolic health markers in adults of Northern Kerala: a quasi-experimental study 2025
- Trends and factors associated with Tuberculosis mortality among patients registered under the National TB Elimination program in Kannur district: A record-based study 2025
- Mortality and it's associated factors among Tuberculosis patients registered under the National TB Elimination program at a tertiary care centre in Northern Kerala: a prospective observational study 2025
- Prevalence of self medication practice and associated factors in a rural area of Kannur district in Northern Kerala: a community based cross sectional study 2025
- Knowledge regarding developmental milestones and it's associated factors among mothers of children less than 3 years in North Kerala: a cross sectional study 2025
- Prevalence and factors associated with malnutrition among elderly population in Cheruthazham panchayat in North Kerala: a cross sectional study 2025
- Audit of patients coming for HIV testing in ICTC in a tertiary care centre in northern Kerala: A record based study 2025
- KAP of antibiotics usage among house surgeons in tertiary care hospital 2024
- Prevalence of Stress among interns in tertiary care centre, North Kerala. 2024
- Clinico - epidemiological profile of HIV positive cases from Jan 2024 June 2024 in ICTC centre in a tertiary care centre 2024
- KAP regarding breast cancer and its screening method among rural women in northern kerala. A cross sectional study 2024

- Clinico epidemiological profile of Hepatitis A cases admitted in tertiary care centre of North Kerala 2024
- Motivation to quit smoking – Intervention among smoker inpatients of Government Medical College, Kannur 2024
- Diet adherence among hypertensive individuals. 2024
- Compliance of IFA among ANC women attending MCH clinic 2024
- Hypertension control rate and associated factors in patients attending NCD clinic at a tertiary centre in north kerala 2024
- Prevalence of under nutrition among under 5 children in an Anganwadi 2024
- Evaluation of patient feedback in a taluk hospital in North Kerala 2024
- Prevalence of diabetes mellitus in the field area of UHTC, kandanakali 2024
- COVID 19 vaccine breakthrough infections among healthcare workers of a tertiary care centre in north Kerala: A descriptive study 2023
- Stigma and discrimination towards LGBT community among interns of GMCK 2023
- Prevalence and factors associated with school absenteeism during menstruation among higher secondary female students in Kannur district a school based cross sectional study 2023
- Verbal autopsy of TB death in GMC Kannur 2023
- Road Traffic safety- KAP study among Interns at Tertiary Care Centre in North Kerala 2023
- Factors influencing delay in initiating PEP for rabies prevention among animal bite victims in a tertiary care centre 2023
- A Verbal autopsy of Leptospirosis death in a Tertiary Care Hospital, North Kerala
- Prevalence of gastroesophageal reflux disease and its associated factors among professional college students in north kerala. A cross sectional study 2023
- Epidemiology of Animal bite cases and factors associated with delay in initiating PEP 2023
- Prevalence of obesity among adult women residing in urban area of North Kerala. A community based cross sectional study. 2023

- Prevalence and response to needle stick injury among the Interns & Staff nurse 2023
- A study on Adolescent health problems among school children 2023
- Study of Prevalence and Response to Needle stick injury among HCW in GMCK 2023
- A study on drug compliance among HTN & DM population attending NCD clinic at CHC Pazhayangadi 2022
- Diet adherence among diabetic patients attending OP in TH pazhayangadi -tool development (Malayalam.) 2022
- Prevalence of nonadherence to management plan and lifestyle advice among type 2 diabetes mellitus patients and its associated factors in rural north kerala a community based cross sectional study 2022
- Descriptive epidemiology of COVID 19 deaths in the first, second and pandemic waves: a comparative study from Southern India 2022
- Impact of diabetes on the severity of COVID 19 infection in pregnant women – A single center descriptive study 2022
- Demographic and clinical characteristics of COVID 19 mortality in Southern India- A single centre observational study 2022
- Duration of viral clearance and factors associated with viral clearance among COVID 19 patients admitted in a tertiary care centre in North Kerala 2022
- Prevalence of Antibiotic Self Prescription among adults in the field practice area of GMC Kannur 2022
- Knowledge, Attitude and Practice regarding organ donation among adults residing in an urban area of North Kerala 2022
- Prevalence of under nutrition among under 5 children in an Anganwadi 2022
- KAP towards Exclusive breast feeding among lactating mothers 2022
- Profile and outcome of HFMD cases attending GMCK 2022
- COVID death – Trend analysis in a tertiary care centre in North Kerala 2022
- Vaccination status of ICU admitted COVID-19 cases – A cross-sectional study 2022

- KAP of using menstrual cup among female medical students in a medical College in North Kerala 2022
- Profile of category 3 animal exposure and cost of management 2022
- Incubation period of COVID 19: Analysis of COVID 19 cases admitted in a tertiary care centre, northern district of Kerala, India 2021
- COVID 19: Timely action to prevent local transmission: A success story from Kannur district, Kerala 2021
- Factors associated with COVID-19 infection among patients admitted in a tertiary care centre in North Kerala 2021
- Extra pulmonary TB – An overview – A record-based study under a tertiary care centre 2021
- EPTB trend across a 3-year period from 2018 to 2020 – A record based cross-sectional study 2021
- A descriptive study of knowledge regarding rabies among attendees of Anti rabies clinic in GMCK 2021
- Assessment of healthcare needs of elderly population in a rural area of north kerala a community based cross sectional study 2021
- Quality of life of postmenopausal women in rural area of north kerala, a community based cross sectional study 2021
- Severity of nicotine dependence and smokers' knowledge about smoking related health problems among inpatients in GMCK. 2021

### **Department of Dermatology**

#### **Current research projects:**

1. Anxiety and anxiety sensitivity among psycho physiological dermatoses and non psycho physiological dermatoses in a tertiary care centre in North Kerala: A comparative study
2. Prevalence of distal interphalangeal joint enthesitis in patients with nail psoriasis
3. Assessment of peripheral nerve involvement in leprosy using high resolution

ultrasonography in a tertiary care centre, a cross sectional study

4. Dermoscopic patterns in vitiligo among Patients attending a tertiary care centre: A Descriptive Study
5. Metabolic syndrome in early-onset androgenic alopecia in males: a comparative study from a tertiary care hospital in north Kerala
6. Patch test positivity in patients with facial melanosis: an observational study forms tertiary care centre in North Kerala
7. Effectiveness of intralesional MMR vs intralesional Vitamin D3 in cutaneous warts: A comparative study

### **Department of Biochemistry**

- ICMR Short Term Students Program Research-Mutation in LDL receptor gene in Coronary Artery Disease in Northern Kerala

### **Elective Research Projects**

1. CA 125 level in patients with malignancy- A cross sectional study.
2. Evaluation of serum Ferritin level in Pregnancy.
3. Serum Vitamin D 3 level in patients with Diabetes Mellitus.
4. Serum HDL level in patients with Coronary Artery Disease.
5. Serum Uric Acid level in patients with Metabolic Syndrome.
6. Serum LDL level in patients with Metabolic Syndrome
7. Serum HbA1c level in patients with anaemia.

### **Department of Physiology**

#### **Research projects for last 3 years (2019-2025)**

1. Sreedharan, A., Konath, S. P., Madakkavil, S. K., & Surendran, P. International Journal of Health and Clinical Research. 2020; 3(6):166-174. Annapurna K, Swarnalatha P K. Vitamin D Status, and its association with Lipid Profile among Medical Undergraduates in a Medical College in Kerala. Glob J Med Pharm Biomed Update 202; 15: 7.

2. Veena Thamban, Kavana GV. Neck circumference: A screening tool to assess obesity among medical undergraduates. IJCRT.2020;8(4): 2320-2882.
3. Veena Thamban, Kavana GV. Gestational diabetes mellitus and its relation to pre-pregnancy BMI. JCDR. 2020;14(1): CC01 - CC03.
4. Annapurna K, Swarnalatha P K. Vitamin D Status, and its association with Lipid Profile among Medical Undergraduates in a Medical College in Kerala. Glob J Med Pharm Biomed Update 2020; 15: 7.
5. Bone Mineral density & hand grip dynamometer to assess the risk of osteoporosis in psychiatric patients. Ms. Jenet Annirudhan, of **Dr. Kavana GV**.
6. Effect of Type 2 Diabetes Mellitus on short term memory in the age group of 30 - 50 years (completed) – **Dr Sapna A M, Guide: Dr Swarnalatha PK**
7. Effect of yoga on stress and quality of sleep among undergraduate students of a government college in Northern Kerala (ongoing) – **Dr Vibeesh Babu M K, Guide: Dr Swarnalatha PK**
8. Pulmonary Function Tests and Their Correlation with Glycemic Control in Type 2 Diabetes Mellitus In A Tertiary Care Centre; S S Jyothish, Swarnalatha P. K, Ranjit Kumar K C. Indian Journal of Clinical Anatomy and Physiology.
9. Thyroid Dysfunction and Associated Factors in Type II Diabetes Mellitus Patients: A Hospital Based Study; Dr Ancy Xavier, Swarnalatha P. K, Ranjit Kumar K C.
10. Prevalence Of Depression and Associated Factors Among First Year Medical Students in A Medical College in Northern Part Of Kerala; Dr Jyothish S S, Dr. Swarnalatha. P. K, Dr Ancy Xavier
11. Relation Between Glycemic Control and Thyroid Dysfunction In Patients With Type II Diabetes Mellitus; Dr Ancy Xavier<sup>1</sup>, Dr Swarnalatha P K<sup>2</sup>.
12. Serum Magnesium Levels in Diagnosed Cases of Chronic Obstructive Pulmonary Disease In A Tertiary Care Centre – A Hospital Based Observational Study- Dr. Varsha Vijayan, Dr. Sheeba. V, Dr. Muhammad Shafeek
13. Empathy Level Among Undergraduate Medical Students: A Cross Sectional Study

- from Kannur District, Kerala- Dr Varsha Vijayan, Dr Jyothi Damodar, Dr Swarnalatha P K
13. Proportion of Burnout Among Medical Interns in A Tertiary Care Centre In Northern Kerala: An Observational Study- Dr Amina Nazeer, Dr Swarnalatha Pk, Dr Veena Thamban
  15. Prevalence and Associated Factors of Cardiac Autonomic Dysfunction in Patients with Longstanding Type 2 Diabetes Mellitus in A Tertiary Care Centre In Northern Kerala- Dr Amina Nazeer, Dr. Swarnalatha P K.
  16. Serum Calcium and Phosphorus Levels in Hypothyroid Patients Attending A Tertiary Care Hospital and Its Correlation With Thyroid Profile- Dr P G Jayalakshmi, Dr Veena Thamban
  17. Association Between Quality Of Sleep and Mental Health Among First Year Medical Undergraduate Students In A Tertiary Care Centre In Northern Kerala- Dr P G Jayalakshmi, Dr Swarnalatha P K, Dr Veena Thamban
  18. Comparative Study of Brainstem Evoked Response Audiometry In Diabetic Patients And Non Diabetic Subjects In A Tertiary Care Centre- Dr. Mubeena V, Dr Sheeba V
  19. Prevalence of Cardiovascular Autonomic Dysfunction in Patients with Hypothyroidism in A Tertiary Care Center in Northern Kerala: A Cross Sectional Study. Dr. Akhil Rajendran, Dr Swarnalatha P K
  20. Cognitive Impairment in Type2 Diabetes Mellitus Patients in A Tertiary Care Centre: A Cross Sectional Study- Dr Sumayya S, Dr Swarnalatha P K.
  21. Prevalence and factors associated with geriatric sarcopenia in a rural area in kannur district in northern kerala: a community based cross sectional study. DR. KEERTHANA RAVI. GUIDE: DR. JYOTHI DAMODAR, CO. GUIDE: DR. SWARNALATHA P.K
  22. Prevalence of sensorineural hearing loss in diabetic and non- diabetic individuals using puretone audiometry in Northern kerala: a comparative study.

Dr. Aswathy B. K GUIDE: DR. SHEEBA V.; DR PRIYA PV

### **Department of Forensic Medicine**

- Dr. Sreekanth S. Nair and Dr. Nikhil Lakshmanan - "Comparative autopsy-based study of presence of fluid in paranasal sinuses in deaths due to drowning and other asphyxial death in north Kerala."

### **Department of General Surgery**

1. Prevalence of peripheral vascular disease among diabetic foot ulcer in north kerala  
A cross sectional study –Dr.Biju.T.P ,Dr. Anoop.M.A
2. Clinical profile of patients with GIST in Northern Kerala- A record based  
observational study Indian Journal of Applied Reaearch, Vol-2, Issue-2, Feb 2021,  
DOI:10.36106/ijar, Page 82-83- Dr. Alex Oommen.
3. An Assessment of Axillary lymph node positivity in clinically node negative early  
breast cancer Kerala Surgical Journal 2021, Jan-June, Vol 27, Issue1- Dr Harinath T T

### **Projects done in the Dept:**

1. A study of factors associated with mortality in perforated gastroduodenal ulcer  
disease by Dr. Kavya Valsaraj under guidance of Dr. Biju.T.P.(2019-2022)
2. Prognostic correlation of Modified Computed Tomography Severity Index and  
serum amylase and lipase levels in acute pancreatitis by Dr. Riyasudeen.K.A. under  
guidance of Dr. M.K.Balachandran.M.K.(2019-2022).
3. Validation of Lir nec Scoring System in the early diagnosis of Necrotising soft tissue  
infections by Dr. Nadeera V.P.K. under the guidance of Dr. Balachandran.M.K. (2020-  
2023)
4. Prevalence of peripheral arterial disease in diabetic foot ulcer patients –A hospital-  
based study by Dr. Sivaprasad.B under the guidance of Dr.Biju.T.P.(2020-2023)
5. Pre-operative factors associated with difficult laparoscopic cholecystectomy by Dr.  
Raees Mohammed Kinan under the guidance of Dr.Biju.T.P.(2021-24)

6. A 30 day surgical outcomes among patients who had undergone emergency laparotomy – a prospective study in a teaching hospital in North Kerala by Dr. Delina Rosemary Roger under the guidance of Dr. Unnikrishnan.E.P.(2021-2024)

### Ongoing Projects

1. Comparison of the wound healing properties of Amniotic membrane dressing with Normal saline dressing in diabetic foot ulcer by Dr. Parvathy.S. Kumar under the guidance of Dr.Unnikrishnan.E.P.(2022-2025)
2. A comparative study of Chest Xray versus Chest Computed Tomography Scan for detecting rib fractures in patients with chest trauma by Dr.Ayisha Farha .S. under the guidance of Dr.Biju.T.P.(2022-2025)
3. Diagnostic accuracy of neutrophil-lymphocyte ratio in predicting the severity of acute pancreatitis by Dr. Nithin Visakh under the guidance of Dr. Preetha Prasad (2023-2026)
4. Assessment of post operative SICU patients using modified early warning score to predict the mortality in a tertiary care centre – an observational study by Dr. Naeema K C under the guidance of Dr. Vineed S.(2023-2026)

### Department of Paediatrics

1. Abnormal antenatal umbilical artery Doppler indices and its relation with outcome in neonates born in a tertiary hospital- A descriptive study
2. Early predictor of neurodevelopmental outcome in neonatal seizures in a tertiary care centre
3. Early neonatal morbidities in term and late preterm infants in a tertiary care centre- a comparative study
4. Intraventricular haemorrhage in preterm babies born to mothers with antenatal corticosteroids covered and not covered-a comparative study

5. Prevalence of Vitamin D deficiency among children aged 1-5 years with lower respiratory tract infection
6. Serum magnesium levels in children aged 6m-60 months with febrile seizures – A hospital based descriptive study
7. Prevalence and associated factors of developmental delay in children aged 2 months to 2 years
8. Prevalence and pattern of psychiatric domains in children with type 1 diabetes mellitus aged between 6-17 years attending tertiary care centre – cross sectional study.

### **Ongoing research projects**

1. Prevalence and Associated factors of Developmental delay in children aged 2 months- 2 years attending Child Development Clinic at a tertiary care centre : A cross sectional Study By Dr Neelesh Kanna ,Guided by Dr Kavitha Pavithran
2. Prevalence of Incomplete Immunisation and associated factors among underfive children in Department of Paediatrics of a tertiary care centre in north kerala: A cross sectional Study by Dr Abookh Aiyun Ayisha Habeeb Guided by Dr Radhamani. K V
3. Prevalence of and factors associated with neonatal Anemia in Tertiary care centre of North kerala: A Cross Sectional Study By Aparna Guided by Dr Anil Kumar A
4. Maternal Factors and Immediate Complication of a small for gestational Age babies in a tertiary care Centre in North Kerala: An Observational Study by Dr Mohammed Rashad guided by Dr Urmila K V
5. Changing trends in Paediatric Dengue infections- Dr Urmila KV: Dr Jijesh A

## Department of ENT

### On-going Research Activities:

1. Comparative study of hearing impairment in neonates born to mothers with and without gestational diabetes mellitus- Dr Yasaswikrishna Guide: Dr Shameem Ahamed S.V
2. Clinicopathological evaluation of tympanosclerosis in chronic otitis media in a tertiary care centre-A descriptive study-Dr Varsha A S Guide: Dr Deepa R
3. Audiological profile in patients with thyroid dysfunction: A cross sectional study- Dr Asna Shaheen Guide: Dr Deepa R
4. Correlation between size and site of tympanic membrane perforation and hearing loss in mucosal type of chronic otitis media-Dr Radisha P M Guide: Dr Deepa R
5. Clinico-etiological profile of unilateral vocal paralysis: A descriptive study-Dr Farha V P Guide: Dr Shameem Ahamed S.V
6. Prevalence and clinical significance of extra laryngeal branching of recurrent laryngeal nerve: A descriptive study in a tertiary care centre-Dr Gayathri P Raj Guide: Dr Divya GM
7. Prevalence of sensorineural hearing loss in smokers and non-smokers using pure tone audiometry: A comparative study in a tertiary care hospital-Dr Aparna V S Guide: Dr Deepa R

## Department of Orthopaedics

1. Perioperative electrolyte imbalance in fracture neck of femur and intertrochanteric fracture in elderly patients.
2. A comparative study to determine the efficacy of 48hrs and 72hrs antibiotic prophylaxis using cefuroxime in preventing early surgical site infection in elderly patients with hip fractures.
3. Comparative study of functional outcome between double row vs single row in arthroscopic rotator cuff repair.
4. Functional outcome of treatment of intertrochanteric fractures with the PFNA3 nail system.

5. Prevalence of methicillin resistant staphylococcus aureus in adult patients with trauma attending a tertiary care hospital.
6. The impact of reduction of the final neck shaft angle in unstable intertrochanteric fractures treated with proximal femoral nail in older patients at tertiary care centre.
7. Functional and radiological outcome of MIPPO in management of proximal tibia fractures.
8. Functional outcome of Acl reconstruction
9. Functional outcome of calcaneum plating

### **Department of Gastroenterology**

- Rodenticide poisoning
- GERD including Globus hystericus
- Functional bowel disease
- Gastrointestinal bleeding
- Helicobacter pylori infection
- Various aspects of Cirrhosis

### **Department of Ophthalmology**

- Comparison of surgically induced astigmatism in corneoscleral and clear corneal incision in phacoemulsification
- Ocular manifestations of snake bites in a tertiary care hospital in rural Northern Kerala, India
- Study of factors influencing central corneal thickness among patients attending ophthalmology outpatient department at a tertiary care centre in Northern Kerala
- Acute angle closure glaucoma with capillary leaks syndrome following snake bite.
- Proptosis -Profile from a tertiary care centre in Northern Kerala

- A comparative study of incidence of retinopathy of prematurity between small- for-gestational- age and appropriate- for-gestational-age preterm babies in North Kerala
- Effect of brimonidine on central corneal thickness in normal tension glaucoma patients
- Awareness and post counselling acceptance of eye donation in a tertiary care centre in Northern Kerala
- Measurement of Central Corneal Thickness in Type 2 Diabetic Patients and its correlation with Duration, HbA1c Levels and Severity of Retinopathy
- Prevalence of Diabetic Retinopathy and Associated Factors in Type 2 Diabetes in a Tertiary Care Centre in Kannur District of Kerala
- Comparative study of intracameral lidocaine and topical mydriatics in pupil dilation during phacoemulsification
- Comparative study of suture less and glue -free versus conjunctival autograft with sutures in primary pterygium surgery
- Frontalis sling in a bilateral ptosis with external ophthalmoplegia and poor bells phenomenon- 5 year follow up
- A study to assess meibomian morphology using meibography in posterior blepharitis patients and normal population. A hospital based observational study
- Incidence and severity of dry eye following phacoemulsification cataract surgery and its relation to intraoperative risk factors
- Rhino orbital mucormycosis- a successor to COVID 19
- Comparison of intraocular pressure measured by Goldmann applanation tonometer and Non- Contact tonometer
- A comparative study of fundus autofluorescence imaging of non-diabetic and diabetic patients without retinopathy attending a tertiary care centre

- Effect of topical steroids vs topical NSAIDS on postoperative inflammation after cataract surgery in a tertiary care centre- an observational study
- Comparison of serum sodium and potassium levels in patients with cataract and individuals without cataract in a tertiary care centre in north Kerala – a cross sectional study
- Visual outcome following retro fixated iris claw lens implantation in complicated cataract surgery patients
- Prevalence of refractive errors in preterm children aged 5-10 years who were born preterm and underwent ROP screening in a tertiary care centre in northern Kerala.
- **Preparing for publication**
  - a. Comparison of serum sodium and potassium levels in patients with cataract and individuals without cataract in a tertiary care centre in north kerala – a cross sectional study. Dr Rohitha H |Guide- Dr. Latha Nv
  - b. Prevalence of refractive errors in children aged 5-10 yearswho were preterm at birth and screened for retinopathy of prematurity in a tertiary centre in northern kerala. Dr Shreya S | Guide-Dr Risha Ravindran

### Department of Anaesthesiology

#### Ongoing research

Dr Bindu M -5

Dr Maya Rose Jose -2

Dr Sheeba franklin PHD in Airway management strategies under KUHS

Dr Sajina M – 2

Dr Divya Dhananjayan – 1

Dr Vaishak K S – 1

### Research Proposals GMC, Kannur 2024

Sl No	Principal Investigator	Department	Title
1	Dr. Muhammed Shafeek K, Assistant Professor	Pulmonary Medicine	Melioidosis, The great mimiker: A case series from a territory care centre in north kerala
2	Dr. Rafeeda P, PG Student	Community Medicine	Prevalence and factors associated with school absenteeism during menstruation among higher secondary female students in kannur district: A school based cross sectional study
3	Dr. Basima Tasneem PG Student	OBG	Clinical and epidemiological profile, management and outcome of Ectopic Pregnancy: An observational study
4	Dr. Parvathy S Kumar PG Student		Comparison of the wound healing properties between amniotic membrane dressing and normal saline dressing in diabetic foot ulcers
5	Dr. Sarath Chandran C PG Student		Knowledge, application and perspectives regarding the possible role of artificial intelligence among the faculties of pharmacy domain
6	Dr. Sarath Chandran C PG Student		Artificial Intelligence and pharmacy education a survey to assess the knowledge, application and perspective among the B Pharm students

<b>7</b>	Dr. Sarin S M Associate Professor	Medicine	Ir Peer oriented learning on effective complementary method to conventional teaching technique for clinical examinations among second year medical students?
<b>8</b>	Dr. Akhil Rajendran PG Student	Physiology	Prevalence of cardiovascular autonomic dysfunction in patients with hypothyroidism in tertiary care centre in northern kerala
<b>9</b>	Asheekha Shirin, Sandra Rose Mathew Sauparnika Soman Risana V U Rukhiya N p Interns	D Pharm	Toxicological profile of poisoning cares in a tertiary care hospital
<b>10</b>	Anjali Babu, Anju K Varghese, Aswathi Chandran Fathimathul Nasva Shahama Sherin Varsha Vinod Interns	D Pharm	Relationship between frailty, social support, and family functionality of hemodialysis patients: a cross-sectional study
<b>11</b>	Theertha S, Sandra Shajan Niranjana V P Malavika Suresh Hasna Humayoon Interns	D Pharm	Knowledge, attitude, and practice of materiovigilance among health care professionals in hospitals of kerala: A descriptive study

### 11.1 Research Collaborations

- ICMR
- DBT

- WHO
- University collaborations
- Any other

## 11.2 Publications

### Department of Anatomy

#### Publications during 2019-25:

1. A cadaveric study of anterior communicating artery. Sunitha Narayanan, Geetha G N. Nat.J.Clin.Anat: vol 10(2); 70-74..2021
2. Effect of continuous formative assessment on summative assessment among first year MBBS students. Geetha G N, Sunitha Narayanan, Kavana G Venkatappa. European journal of molecular and clinical medicine: Vol 10(3); 439-455.2023
3. Cadaveric study on the variations in the origin, pattern, and termination of the zygotes venous system. Med pulse international journal of Anatomy. Ramya PP, Lakshmikanth, Sukritha MS.Dec 2021;20(3):26-29
4. Cadaveric study of branches of the facial artery in the face. Ramya PP.International journal of current research and review. Jan 2022; vol14(1):94-97
5. Genetic expression of NKX2- 5 gene among first trimester pregnancy loss. Dhanya MS, Rajitha PP et al. Human Gene. Sept 2025
6. Review article on "Role of stress Induced Cytokines in the Development of Heart Failure" as co-author has published in African Journal of Biological Sciences.
7. Review article on "Role of Pyroptosis Genes in Endothelial Disease Development" as the first author submitted in Malaysian journal of Medicine and Health Sciences

### Department of Cardiology

1. Strain patterns in mitral regurgitation due to rheumatic heart disease and mitral valve prolapse. Gopalan Nair Rajesh, Shyam Lakshman S G, Haridasan Vellani, Sajeev CG, Thomas B. Indian Heart Journal, 2020 doi.org/10.1016/j.ihj.2020.11.010

2. 3D speckle tracking echocardiographic strain pattern in Hypertrophic Cardiomyopathy and its relation with Sudden Cardiac Death risk markers. Rakesh K, Rajesh GN, Vellani H. Indian Heart Journal. 2021 Jul 1;73(4):451-7. doi.org/10.1016/j.ihj.2020.11.144
3. Ribosomal protein S6 kinase beta-1 gene variants cause hypertrophic cardiomyopathy. Jain PK, Jayappa S, Sairam T, Mittal A, Paul S, Rao VJ, Chittora H, Kashyap DK, Palakodeti D, Thangaraj K, Shenthara J. Journal of Medical Genetics. 2022 Oct 1;59(10):984-92. PMID: 34916228 DOI:10.1136/jmedgenet-2021-107866.
4. The Influence of Multivessel Disease on Myocardial Reperfusion And Subsequent Survival In St-Elevation Myocardial Infarction. Yogesh Shilimkar<sup>1</sup>, Sudha Kumary V<sup>2</sup>, Jayaprasad N<sup>3</sup> Raihanathul Misiriya<sup>3</sup>. DOI: 10.47009/jamp.2023.5.3.75
5. Complementary Value of Tissue Doppler Imaging in Dobutamine Stress Echocardiography: A Prospective Cohort Study. KuMary VS, PILLAI JK, MISIRIYA KR. Journal of Clinical & Diagnostic Research. 2023 Jul 1;17(7).
6. Gender differences in clinical characteristics, angiographic profile, and outcomes of left main coronary artery disease. Arjun S, Misiriya KR, Sudhakumary V, Alur S, Narayanapillai J. Heart India. 2023 Sep 1;11(3):103-8.
7. Regional myocardial tissue doppler velocities in patients with chronic coronary syndrome undergoing elective PTCA. Manjunath, Sudhakumari V, Jithu sam rajan.
8. Gender Differences in the Clinical and Angiographic Profile in STEMI Patients Undergoing Primary Angioplasty. Dr.Navaneeth.P.G<sup>1</sup>, Dr.Jayaprakash.K<sup>2</sup>, Dr.Sudhakumary.V<sup>3</sup>, Dr.Suresh Madhavan<sup>4</sup>, Dr.Cicy Bastian<sup>5</sup>, Dr.V.L.Jayaprakash<sup>6</sup>
9. Correlation between serum vitamin levels and severity of coronary artery disease in patients undergoing coronary angiography in south Indian population.
10. Correlation between carotid intima - media thickness (CIMT) and severity of coronary artery disease in patients undergoing coronary angiography in south Indian population.

11. Ventricular reverse remodeling after surgical closure in Atrial Septal Defect.
12. Contrast induced nephropathy in patients undergoing elective PCI in a tertiary care centre in coastal Kerala.
13. Naveena S, Mohammed MTP, Pavithran K, Urmila KV. Clinical profile and outcome of multisystem inflammatory syndrome in children in a tertiary care centre of North Kerala: a prospective study. *Int J Contemp Pediatr* 2021; 8:1972-6
14. Mohammed MTP, Khalid S. An observational study to evaluate weight gain of exclusively breastfed infants who feed only while sleeping. *Indian J Child Health*. 2023; 10(7):90-91.
15. Ambili Susan Jacob, Mohammed MTP, Reetha Gopinath, Binoov Divakaran, Tariq Harris; Clinical profiles of neonates born to mothers with COVID-19; *Paediatr Indones*, Vol. 61, No. 5, September 21: 277-289
16. J Deepthi, Pavithran, Kavitha, M.T.P Mohammed. (2023). In hospital clinical course among extremely low birth weight babies admitted in a tertiary care centre in north kerala-a record-based study. *International Journal of Advanced Research*. 11. 158-161. 10.21474/IJAR01/17813
17. Shahna Khalid, Kavitha Pavithran; Early neonatal morbidities among term and late preterm infants in a tertiary care centre - a comparative study *Int. J. of Adv. Res.* (Apr).2024 1215-1218] [ISSN 2320-5407].
18. Jijesh A, Jose Ouseph, Dyslipidemia in Childhood nephrotic syndrome- A followup study-*Int J Med Pub Health* 2024; 14 (3); 1073-1076
19. Gopinath R, Alarambil J. Diabetic striatopathy – A rare manifestation of type 1 diabetes in children – A case report. *J Pediatr Endocrinol Diabetes*. 2024;4:98-100. doi: 10.25259/JPED\_10\_2024
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21. Krishnenth, K.B., Pavithran, K., Mohammed, M.T.P. et al. Bilateral Claw Hand in Paediatric Guillain Barré Syndrome: Authors' Reply. Indian J Pediatr 92, 443 (2025). <https://doi.org/10.1007/s12098-025-05434-9>
22. Jacob AS and Urmila KV. Clinical profile and predictors of recurrence of first episode of unprovoked seizures in children of the age group 1 month to 12 years. Al Ameen J Med Sci 2025; 18(1):60-65

## Department of ENT

### Papers & Posters presented by Postgraduate students

1. AHEAD 2024 –OSCE Competition: Dr Shrithi Hegde JR3 won second prize.
2. Paper: Benign behaving malignant –case report (KENTCON-2023, Kollam)-Dr Shrithi Hegde
3. Poster: Basics retorts to the puzzle-Mystery uncovered (KENTCON-2024, Calicut)-Dr Shrithi Hegde
4. Paper presentation: Respect the basics (SOUTHZONE ENT CONFERENCE 2023, Coimbatore)-Dr Rajesh
5. Poster presentation: Beneath the blood (KENTCON 2024, Calicut)-Dr Rajesh
6. Paper: Saliva in neck -A rare etiology (KENTCON 2023, Kollam)-Dr Moshuyio Kayina
7. Poster: - A rare posterior cervical swelling (KENTCON 2024, Calicut)-Dr Moshuyio Kayina
8. Paper: A silent intruder (KENTCON-2024, Calicut)-Dr Jince Joy
9. Paper: Unpredictable move (KENTCON 2024Calicut)-Dr Abinaya
10. Paper presentation by Dr Yasaswi Krishna, JR in ENT has won first Prize in Kerala State ENT Conference (KENTCON 2025) held in Thiruvananthapuram from Sept 19-21.
11. Paper presentation: A hidden culprit –rare case of fungal skull base osteomyelitis (KENTCON 2025 held in Thiruvananthapuram from Sept 19-21) -Dr Radisha P M
12. Paper presentation: Nasal mass with generalized lymphadenopathy; A rare diagnostic challenge (KENTCON 2025 held in Thiruvananthapuram from Sept 19-21)- Dr Asna Shaheen

13. Paper presentation: From cough to cords –when meliodosis finds a voice (KENTCON 2025 held in Thiruvananthapuram from Sept 19-21)-Dr Varsha A S
14. Poster presentation: When melioidosis finds its voice (KAPSICON 2025 held in Thrissur from oct 24-25)

### Department of Respiratory Medicine

Last 5 years we had published 12 articles. Projects completed-4, Projects ongoing – 6 (Including ICMR project on SARI-ARI project)

1. Study of Pulmonary function test in type 2diabetes mellitus. Rajani. M, Manoj D.K, Rajeev Ram, Achuthan.V. PULMON, Vol15, issue3, sept-dec 2013
- 2 Immediate and long-term results of Bronchial Artery Embolisation for life threatening hemoptysis in bronchiectsis. Rajani.M, Ashraf.S.M, Achuthan.V, Manoj.D.K. *Int J Res Med Sci.2015 oct;3(10):2791-2794*
3. Prevalance of Diabetes mellitus in tuberculosis patients: A hospital-based study. Manoj.D. Kottarath, RajaniMavila, Achuthan V, Smitha Nair. *Int J Res Med Sci 2015 oct;3(10):2810-2814*
4. Site Predilection of Extra Pulmonary tuberclosis: Study from a tertiary care centre. Rajani Mavila, ManojKottarath, Smitha Nair, Milan Malik Thaha. . *Int J Res Med Sci.2015 nov;3(11):3386-3390,*
5. Evaluation of Carotid Intima-Media Thickness in patients with Chronic Obstructive Pulmonary Disease Dr. Rajani.M, Dr. Manoj. D. K, Dr. Smitha Nair *Journal of medical Sciences and Clinical Reseach.2016;4(03):9591-9598*
6. Causative Organisms and Outcome in Patients with Acute Exacerbations of Chronic Obstructive Pulmonary Disease *Dr Smitha Nair et al JMSCR 2016 oct;4(10):13384-13491*
7. Co-Morbidity of Pulmonary Tuberculosis and Diabetes Mellitus- A Prospective Analysis. Dr. AjithKumar. M. K, Dr .Rajani.M, Dr.Manoj,D.K, Dr. Saraladevi. A, Dr. Achuthan.V. *Journal of Medical Sciences & Clinical Research 2016;4(03):9896-9906*

8. Clinico pathological profile of abdominal tuberculosis and their treatment response in a tertiary care centre. Dr Rajani Mavila , Dr Manoj D Kottarath,Niyas K Naseer, Neethu Thampi, Vinayak Mohan.*Int J Res Med Sci.2016Dec;4(12):5120-*
9. Tuberculosis of Breast: Clinical Profile and Treatment Outcome. Manoj.D.K, Smitha Nair, Rajani. M, Jesin Kumar. *International Journal of Medical Research Professionals 2016 Feb;2(2):200-03*
10. Comparison of Scoring Systems for Mortality Prediction in Acute Exacerbation of Chronic Obstructive Pulmonary Disease. Dr Neethu Thambi, Dr K V Padmanabhan, Dr Manoj D K, Dr Rajani M, Dr Neethu Thambi. *JMSCR 2017mar; 05 (03): 19125-19132*
11. Body composition in patients with chronic obstructive pulmonary disease: A Case- Control study Dr. Sreedevi.A, Dr. Ramesan.K, Dr. Jesinkumar.C, Dr. Vinayak Mohan, Dr. Manoj.D.K, Dr.Rajani. M *JMSCR 2017 VOLUME 5 ISSUE11 NOV 2017*
12. A Prospective Evaluation of Hemoptysis Cases in a Tertiary Referral Hospital Authors Dr Muhammad Shafeek.K1, Dr K.V. Padmanabhan2, Dr Jesinkumar.C3 ,Dr Vinayak Mohan4 , Dr Manoj.D.K5 , Dr Rajani.M *JMSCR 2017 VOLUME 5 ISSUE11 NOV 2017*
13. Bacterial Flora in Sputum and Antibiotic Sensitivity in Exacerbations of Bronchiectasis Authors Muhammed Aslam1, Manoj D K2, Rajani M2, Achuthan V2 *JMSCR 2018 VOLUME 6 ISSUE8 394-491 AUG*
14. Pulmonary Function Test in Healthy School children of 7 to 15 years age in North Kerala Authors Dr Muhammad Shafeek. K.1, Dr Shinil V2, Dr Jerin Varghese3 Dr Manoj DK4, Dr Rajani.M *JMSCR 2018 VOLUME 06 ISSUE10 140-145 october*
15. Effects of home-based pulmonary rehabilitation on six minute walk distance in patients with chronic obstructive pulmonary disease, Dr Vinayak Mohan1, Dr. Manoj.D.K2, Dr.Rajani.M3\*, Dr Rishna Raveendran4, Dr Pretty Radhakrishnan5 *Jmscr volume 08 issue 11 november 2020*

16. Role of induced sputum to assess airway inflammation in asthma - study from a tertiary care centre Dr Niyas K. Naseer<sup>1</sup>, Dr Manoj, D.K<sup>2</sup>, Dr Rajani.M<sup>3\*</sup>, Dr Muhammed Shafeek<sup>4</sup>, Dr Padmanabhan.K.V<sup>5</sup>Jmscr volume 08 issue 12 december 2020
17. Echocardiographic evaluation of patients with chronic obstructive pulmonary disease and its correlation with disease severity authors Dr Jesinkumar.C<sup>1</sup> , Dr Manoj.D.K<sup>2</sup> , Dr Muhammad Shafeek.K<sup>3</sup> , Dr Rajani.M<sup>4\*</sup> , Dr Padmanabhan.K.V jmscr vol||09||issue||12||page 245-252||december21
18. Serum vitamin D level in newly detected tuberculosis-a case control study Neethu Thambi<sup>1</sup>, Achuthhan Vadakkedath<sup>2</sup>, Muhammad Shafeekk<sup>3</sup>, Manoj Dehandath Kottarath<sup>3</sup>, Rajani Mavila<sup>3\*</sup>, Padmanabhan Kadammar Veetil<sup>3</sup>. *Int j res med sci. 2022 apr;10(4):892-897*
19. Depression and anxiety in asthma patients attending a tertiary care centre in north kerala: a cross-sectional study Swetha C. Nair<sup>1</sup>, Manoj Dehandath Kottarathil<sup>2</sup>, Muhammad Shafeek K.<sup>2</sup>, Rajani Mavila<sup>2\*</sup>, Padmanabhan Kadammar Veetil<sup>2</sup> i. *Int j res med sci. 2022 jul;10(7)*
20. Pneumonia Severity Index Compared to Curb-65 In Predicting the Outcome Of Community Acquired Pneumonia -A Prospective StudyDr. Rishna Ravindran<sup>1</sup>, Dr. Rajani M. <sup>2</sup>, Dr. Manoj D.K.<sup>3</sup>, Dr. Muhammad Shafeek K. <sup>4</sup> and Dr. Padmanabhan K.V<sup>4</sup>Int. J. Adv. Res. 10(06), 120-130June 2022
21. Socio-Demographic Profile and Body Mass Index Of Patients With Pulmonary Tuberculosis And Their Treatment Outcome In A Tertiary Care Centre Kerala Dr. Prajusha Mohan, Dr. Manoj D.K, Dr. Rajani M., Dr. Muhammad Shafeek K. and Dr. K.V PadmanabhanInt. J. Adv. Res. 11(06), 182-201: June 2023
22. Role Of Combined Pleural Fluid Cholesterol And Total Protein For Differentiating Exudative From Transudative Pleural Effusion In A Tertiary Care Centre-An Observational Studydr. Jyolsna K., Dr. Rajani M., Dr. Manoj D.K, Dr. Muhammad Shafeek K. And Dr. Padmanabhan K.V Int. J. Adv. Res. 11(06), 175-181june 2023
23. Peak Expiratory Flow Rate During Various Phases of Menstrual Cycle in

Asthmatics Presenting to A Tertiary Care Centredr. Lubaiba K.1, Dr. Rajani M.2, Dr. Manoj D.K3, Dr. Muhammad Shafeek K.4 And Dr. Padmanabhan K. V5int. J. Adv. Res. 11(06), 497-505june 2023

24. Effect of Inhaled Tiotropium on Intraocular Pressure in Patients Of Chronic Obstructive Pulmonary Diseasedr. Fifi Francis, Dr. Manoj D.K, Dr. Rajani M., Dr. Muhammad Shafeek K. And Dr. Padmanabhan K. Vint. J. Adv. Res. 11(06), 490-496june 2023.

25. Quality of Life in Patients with Stable Chronic Obstructive Pulmonary Disease In A Tertiary Care Centre- A Hospital-Based Studydr. Padmini C., Dr. Bino Divakar, Dr. Manoj D.K and Dr. Rajani M. Int. J. Adv. Res. 12(03), 115-119march 2024.

### **11.3 Academic Achievements**

#### **Department of Ophthalmology**

- Publications in State Journals
- Annual Cmes Conducted
- Paper Presentations in State Conference
- Poster Presentations in State Conference
- Instructions Courses Conducted in State Conferences

#### **Department of Psychiatry**

##### **PG achievements**

1. Attended conferences and CMEs
2. Presented posters
3. Dr Anoop secured top position in All India DM entrance exams conducted by NIMHANS
4. Bangalore -2 papers were presented at state level conferences

#### **Department of Anatomy**

Received the following numbers of Body Donation Willingness from 2023 till date:

- 2023- 34 numbers
- 2024- 59 numbers
- 2025- 102 numbers till date

### **Department of Radiology**

- Awards & Achievements
- HDR Brachytherapy under the process of installation
- Proposal for LINAC submitted- under the process of consideration
- Submitted a detailed project proposal for upgrading radiotherapy department of this institution to a Tertiary Cancer Centre.
- Successful completion of AERB inspection for Radiotherapy & Diagnostic Radiology departments October 2020. No non compliances were observed.

### **Achievements of Faculties**

Cleared FRCR part one exam

### **Achievements of Senior residents**

Cleared FRCR part one exam

- PG seat enhancement approval. Sanctioned 2 new seats in 2025.
- Research projects -6 conducted in last 6 yrs.
- Research Paper publications 3

### **Department of General Medicine**

2 faculties completed PhD in Department of Medicine under KUHS

### **Department of Obstetrics & Gynaecology**

### **Achievements of faculties in professional bodies**

1. Dr. Ajith. S, Professor &HOD, Dept of OBG State level Co-ordinator for Maternal Near Miss Review State level assessor of Confidential review of maternal death Kerala state Joint Secretary of KFOG (Kerala Federation of Obstetricians

&Gynecologists) KFOG President Elect 2021.

2. Dr. P.V. Jose, Professor State level Maternal Death Assessor. KFOG Vice President Elect 2021
3. Dr. Simi Kurian, Associate Professor Secretary, Kannur Gynecological Society State Level Maternal Near Miss Assessor

#### **Achievements of Postgraduates:**

1. PG Quiz on gynaec oncology June 2024 2nd position grabbed by Dr. Divya and Dr. Shuguftha
2. PG QUEST November 2024, quiz on high risk pregnancy 2nd position-Dr. Divya and Dr. Shuguftha
3. VISION 2024, Kasaragod, quiz on obstetrics 1st prize, Dr. Divya,3rd prize Dr. Swathy
4. Dr. Roja & Dr. Jumana Won second prize in Oncology Quiz conducted by Cannanore Obstetrics and Gynecological Society

#### **Department of Microbiology**

##### **Achievements of faculties in professional bodies**

Vineetha T, Lecturer Microbiology department has secured First Rank in the Certificate course in Health science Education Technology conducted by Kerala University of Health Sciences KUHS from the faculties of all medical colleges and other Medical institutions across Kerala. Aug to Oct 2019.

##### **Awards and achievements of faculties and students:**

Oral presentation: First rank PG Quiz on CME programme held on 27th October 2021 at SRM Chennai June 2024 first rank grabbed by Dr. Deepthi P N

##### **Academic Achievements**

Vineetha T, Lecturer Microbiology department has secured First Rank in the Certificate course in Health science Education Technology conducted by Kerala University of Health Sciences KUHS from the faculties of all medical colleges and other

Medical institutions across Kerala. Aug to Oct 2019.

### **Department of Community Medicine**

- A PhD degree was awarded to DR. Mayamol TR on the topic 'Social etiology, manifestations, consequences and management of emerging infectious disease in North Kerala.'
- All faculties (100%) got trained in BCME
- Training programs conducted on infectious diseases for Doctors, Nurses and Health workers
- publications every year

### **Department of Dermatology & Venereology**

#### **Achievements during 2019 to 2025:**

1. Dr Rajiv S received IADVL Kerala state best teacher award for 2025.
2. Dr Bifi Joy received IADVL Kerala state president's appreciation award in 2024
3. Dr Bifi Joy Deputy editor, Dr Anoop TV Associate editor, Dr Pretty Mathew Assistant editor and Dr. Rajiv S editorial board member of JSSTD, official journal of IADVL Kerala.
4. Faculties & PGs presented papers and invited lectures in various state, national & international conferences.
5. Published 25 articles in indexed national & international journals
6. PGs won prizes in conferences:
  - a) Dr. Shafeeqa and Dr. Rajiv presented a case on Post Kala Azar Dermal Leishmaniasis in UK Health Security Agency teleconference in February 2024
  - b) Dr. Fathimath Rubeena received Dowling Scholarship by British Dermatology Association at 2020 Malabar Bonhomie
  - c) Dr. Fathimath Rubeena received second prize for award paper at CUTICON Kerala 2020
  - d) GMC Kannur was Overall Champion at MDC PG DERMATHON (Intercollegiate

Academic competition) conducted by Malabar Dermatology Club

- e) Dr Thamenna received second prize at CUTICON 2024 E Poster competition
- f) Dr. Jyothish received first prize at MID CUTICON 2025 E Poster competition
- g) Organised PGCON 2024, IADVL Kerala online PG clinic
- h) Organised CME on STI/HIV & AIDS in collaboration with IADVL and STI/HIV SIG on 10-08-2025

### **Department of Forensic Medicine**

Conducted more than 500 medico-legal autopsies including murder, custodial death and maternal death.

### **Department of General Surgery**

#### **During 2019 to 2025**

#### **1. Laser proctology Workshop on 26/06/2025.**

The Department of General Surgery, in collaboration with Oreol Academy Bangalore, successfully conducted a hands-on training program in Laser Proctology on June 26, 2025. The course was expertly directed by the well-renowned surgeon and proctology specialist, Dr. Rajeev Premnath from Ramakrishna Hospital, Bangalore. During this training, a total of 8 patients successfully underwent advanced laser treatment for conditions including: Hemorrhoids, Fistula-in-ano, Fissure and Phimosis. Benefit from Advanced Laser Treatment-We invite patients to experience the advantages of minimally invasive laser treatment for various anorectal conditions. This cutting-edge technology offers benefits such as reduced pain, faster recovery, and minimal scarring. We are currently offering advanced laser treatment for: Hemorrhoids Anal Fissure, Fistula-in-ano, Pilonidal sinus.

#### **2. Endoscopy Installation on 16/10/2025.**

The General Surgery Department is now offering Endoscopy services on a regular basis. Our honourable Principal, Professor Dr. Sairu Philip, presided

over the inauguration of the endoscopy room on October 16, 2025. Our experienced surgical team is performing Esophagogastroduodenoscopy, Sigmoidoscopy and Colonoscopy. This service will be available every Monday and Thursday.

3. Best paper presentation in ML Dathan CME 2023- Flap Fixation: A Technique for Reducing Seroma Formation in Modified Radical Mastectomy- a prospective study -Dr Delina Rosemary Roger.
4. Second prize in Prof. K P Thomas Memorial Gold Medal Examination in Plastic Surgery-2024- Dr. Delina Rosemary Roger Junior Resident.
5. Best case presentation in CALSURG 2023- Dr Sivaprasad B and Nadeera V P K.

### **Department of Paediatrics**

#### **During 2019-2025**

1. Started Disability clinic in collaboration with PMR department
2. Started genetics clinic
3. 8 bedded PICU with negative pressure and attached isolation cubicle
4. Hemophilia treatment with emicizumab / FEIBA
5. Equipment's like CPAP, HHHFNC are functional in PICU and expensive medicines like Rituximab, IVIg, newer injectable antibiotics are made available.
6. Immunization clinic is made functioning on all days except Sundays

### **Department of Paediatrics**

- Kerala State urology conference was conducted at Kannur
- Inspection for renal transplantation is awaited. Regular Urology cases are handled including complicated cases.

### **Recognition and awards**

**Dr Deepa R:** Resource faculty in MEU, GMC, Kannur. Regularly participates in Revised Basic workshop in Medical Education Technology & other programmes conducted by

Medical education Unit of GMC Kannur from 2017 onwards.

**Dr Divya G.M:**

- Was a faculty in Kerala State ENT Conference KENTCON 2025 held from September 19-21 in Trivandrum.
- Secured **third prize** in Dr K V. Shah Award for Oral Paper Presentation in Senior Consultant Category in National Otolaryngology Conference AOICON 2025 held at Kochi from January 9-12, 2025
- **Best Consultant paper** award in KENTCON 2024, Kerala State ENT Conference held at Kozhikode from 27-29 September 2024.
- Invited speaker in 5th Congress of Asia Pacific Society of Thyroid (APTS 2024) Bangkok, Thailand October 3-5, 2024.
- Oral paper presentation at 9<sup>th</sup> World Congress of International Academy of Oral Oncology (IAOO2023) at Grand Hyatt Incheon, Korea, November 1-4, 2023.
- Oral paper presentation at 7<sup>th</sup> World Congress of the International Federation of Head and Neck Oncologic Societies, Rome, Italy June 21-25, 2023.

**Department of Gastroenterology**

- Media recognition for Gastroenterology Department regarding clinical and endoscopic achievement

**Department of Respiratory Medicine**

- First and second rank in KUHS PG examination held in 2021
- in 2024 our PG student received second prize in state level quiz program
- Dr Manoj D K was the organizing chairman of 2 national conferences in Pulmonary Medicine in last 3 years. He is the immediate past president of Kerala Chapter of Indian Chest Society and NTEP state task force vice chair.
- Conducted CME – 2 National level and 2 state level and 4 institutional level
- Our faculty presented papers in various national platforms and given lectures at IMA and other similar platforms
- Regular sensitisation programs for faculty and students on Tuberculosis and NTEP.

- Regular public programs on No Tobacco day, COPD day, World Asthma day etc
- Published 12 Original articles in the indexed journals
- Completed research projects -4 and on going research projects- 5.
- PG seat enhancement from yearly 2 intakes
- to 3 per year from the year 2025.

### **Department of An Anaesthesiology**

1. Dr Bindu M is faculty of Pallium India and KUHS with Global fellowship in pain and palliative care, CCPPM, FCPM, Geriatric palliative care and dry needling course. She is KUHS Faculty as well.
2. Dr Sheeba Franklin is faculty of KUHS and doing PHD under kuhs university topic – Airway Management strategies
3. Dr Maya Rose Jose, Dr Divya Dhananjayan, Dr Sajina M are faculty in KUHS
4. Dr Vaishak k s is faculty for CME s
5. Dr Rahul Aanand is ISA member of governing council of Kerala state.

## CHAPTER 12

### SKILL DEVELOPMENT, SIMULATION LEARNING & CAPACITY BUILDING

Photographs, along with details of the training programmes conducted and their notable achievements, may be incorporated within the chapter to enhance completeness and clarity

Short descriptions and concise tables may be included within this section, while longer tables can be placed in the annexure, with appropriate references made within the chapter

#### 1. Training:

- **Training of House surgeons:** Twenty-one house surgeons were given training on communicable disease surveillance and reporting in August 2023.
- **Training of Junior residents:** Junior residents were given training on outbreak investigation in September 2023.
- Training activities will be conducted periodically for House surgeons on various topics- Communicable disease surveillance, Emerging diseases, Non-communicable disease prevention and control, Outbreak identification and investigation.

#### 2. Field activities:

- RPEID cell team visited Savitri Bhai Phule Memorial Ashramam School, KumdankuzhiBedadkaPanchayat, Kasargod on 14 August 2023 to investigate food poisoning outbreak.



- RPEID cell team visited Payyannur in September 2023 to investigate Melioidosis case.
- Communicable disease screening was conducted among students of Kendriya Vidyalaya, Mangattuparamba on 4<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> of August 2023
- Visit to Urban Health Center field practice area to study the demographic characteristics and health profile of the community in order to plan appropriate health education and control measures.
- Health education and screening sessions were conducted for mothers and children at Kandankali Anganwadi on 30<sup>th</sup> September 2023.



- Health education sessions were conducted before monsoon for public for prevention of communicable diseases during monsoon time.

### **Training of Medical Officers**

Training was conducted for Medical Officers of Kannur District in association with Health Services on various topics- Epidemiology of Leptospirosis, Outbreak investigation.



### Training of Health workers

Health workers of Kannur district were given training on various Disaster management, Premonsoon preparedness to prevent communicable diseases.

### Health education

- Hotel owners and workers in Kasargod district were given health education on Food safety and food hygiene.
- Health workers were given awareness class on prevention and management of animal bite cases.

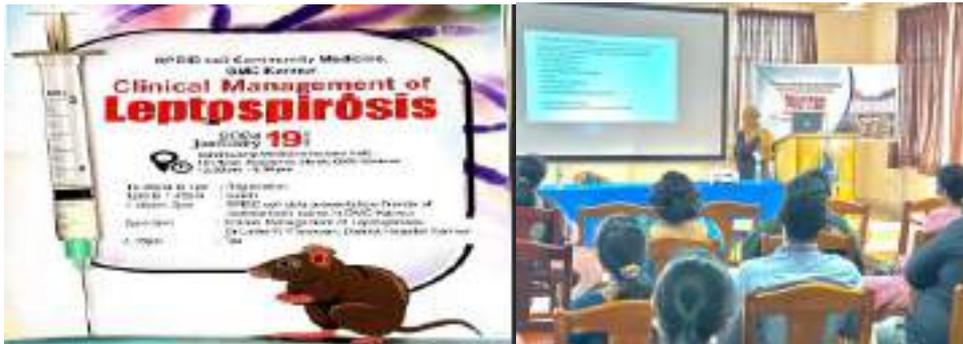


## Health education



Health education session was conducted for staff nurse of Cooperative Hospital, Payyannur on World AIDS day on 1.12.2023.

## Training-CME- Management of leptospirosis -19.1.2024



CME on Leptospirosis was conducted for faculty and junior residents of GMC Kannur on 19<sup>th</sup> January 2024



#### **Palliative care week observance- 20.01.2024**

Seminar was conducted on prevention of communicable diseases among Palliative care patients and importance of communication in palliative care.



**Training on Infection Control Practices:** Training was conducted at Dept of Community Medicine, GMC Kannur from 29<sup>th</sup> Jan 2024 to 2<sup>nd</sup> Feb 2024 for improving the infection control practices in the Medical College. The training was conducted for 630 various categories of staff- staff nurse, nursing assistants, cleaning staff and waste management staff in separate batches.

### CME on Tackling Melioidosis- 17.02.2024



CME on Melioidosis was conducted for faculty and junior residents of GMC Kannur on 17<sup>th</sup> February 2024.





### Statement of Expenditure (2023- 2024)

	Amount sanctioned	Amount spent
<b>Training</b>	2,25,000	1,55,314
<b>Field activity</b>	1,55,000	66,948
<b>Miscellaneous</b>	31,000	10,036
<b>Purchase section</b>	26,545	6088
<b>Staff remuneration</b>	4,94,880	2,32,087

### Medical Education Unit

1. Revised Basic Course Workshop in Medical Education Technologies-28/9/2021 to 30/9/2021
2. Basic Course in Medical Education (BCME) for faculties as per NMC guidelines 13<sup>th</sup> to 15<sup>th</sup> July 2023
3. Basic Course in Medical Education for faculties-23<sup>rd</sup> January to 25<sup>th</sup> January 2025
4. CISP 1 Workshop for faculty 21/05/2019 to 23/05/2019
5. CISP 2 Workshop for faculty-November 11th and 12th 2020
6. Induction Programme for House Surgeons on 18<sup>th</sup> & 19<sup>th</sup> July 2023
7. Induction Program for House Surgeons 2018 Batch Additional 14/11/2023 & 15/11/23

8. Workshop on Enhancing Communication and Counselling Skills for Mentors on 18-11-2025

### **Department of Psychiatry**

1. Dr. Padmini was actively involved in modifying CBME based curriculum in Psychiatry in association with Indian Psychiatry Association (IPS).
2. Dr. Padmini had Participated in Curriculum Implementation Support program in GMC, Kannur and implementation of these techniques in UG training in department of Psychiatry, GMC, Kannur
3. Dr. Sumesh and Dr. Padmini has active participation in training and implementation of student support and guidance program (SSGP) and mentorship program in GMC, Kannur
4. Mrs. Sherry attended assessment using NIPED Intelligence Scale training

### **Public and patient awareness programs**

1. Drug awareness programs in various schools and colleges
2. Suicide prevention classes and awareness.
3. Role plays regarding spreading awareness of depression
4. Radio programs for spreading awareness regarding ADHD, and various mental health issues
5. Poster presentations

### **Department of Anatomy**

#### **Educational development programmes:**

1. Mentorship programmes for MBBS students
2. Elective postings for phase 3 part 1 students to expertise on embalming procedure and museum techniques.
3. 01/02/2020-conducted CME on cerebrovascular anatomy and stroke-challenges and solutions.

## Department of Radiology

### Training programs conducted-

- Radiation Physics for MD course – for various PG courses
- 200 hrs of classroom teaching for DRT students/ year
- Radiation safety training for DCVT students – 6 classes since 2019
- Training programs for nursing and pharmacology students in chemotherapy

### Patient or public awareness programs participated-

- Cancer campaign- **Arogyam Anandam** in association with OBG
- World cancer day observed

### Academic- in addition to teaching

- Cancer awareness classes
- Providing safety training prior to issuance of personnel monitoring devices.
- ONCUREA CME conducted by nursing college in association with dept of radiotherapy regarding special procedures in Radiotherapy
- Radiation safety training for clinicians & Radiographers DH Kanhangad 2021
- Radiation safety training for clinicians & Radiographers DH Kasargod 2023

## Department of Biochemistry

- Workshop on ICMR guidelines 2017 on Biomedical Research Ethics & Good Clinical Practice on 1<sup>st</sup> Nov 2024 at GMC Kannur
- Revised Basic course workshop in Medical Education Technologies from 28th to 30th Sep 2021 at GMC Kannur.
- “Ethical Guidelines, Current Regulations in Clinical trials and good clinical practices on 07/12/2019 at GMC Kannur

### State Conference

- Qualitative Research in Health Sciences on 29<sup>th</sup> March 2025 at GMC Kannur
- Health Research on 4<sup>th</sup>& 5<sup>th</sup> Feb 2025 at GMC Kannur
- Biomarkers by AMBI-Kerala Chapter on 5<sup>th</sup>& 6<sup>th</sup> May 2023 at GMC Thrissur

- Basic course in Medical Education from 21<sup>st</sup> to 23<sup>rd</sup> Aug 2023 at GMC Kozhikode
- Research Methodology workshop on 29<sup>th</sup> & 30<sup>th</sup> Sep 2022 at GMC Kannur
- Basic Course in Biomedical Research (91%) in Dec 2020
- Cerebrovascular Anatomy & Stroke- Challenges & Solutions on 1<sup>st</sup> Feb 2020 at GMC Kannur
- AMBKCCON-2019 on 20<sup>th</sup> & 21<sup>st</sup> Sept 2019 at Mysore Medical College and Research institute Mysuru
- Quality Control in Medical Laboratories on 23<sup>rd</sup> & 24<sup>th</sup> Oct 2019.
- Curriculum Implementation Support Program from 21<sup>st</sup> to 23<sup>rd</sup> May 2019 at GMC Kannur

### Department of Respiratory Medicine

- **Training programs conducted-** Conducted training programs for faculty and staff - NTEP SENSITISATION- 4, AIRBORNE INFECTION CONTROL 1
- **Training Programs attended** – Our faculty attended air borne infection control training, NTEP trainings

### Department of Obstetrics & Gynaecology

#### 1. Clinical skill training

Normal labour, partograph

Emergency drill- PPH, eclampsia, dystocia, CPR

NRP, episiotomy, IUCD/PPIUCD, MVA

#### 2. Simulation and skills lab

Manikin based obstetric and surgical simulations

Laparoscopy box training, hysteroscopy orientation

#### 3. Competency based workshops

CBME modules, OSCE/OSPE, case presentation, counselling skills

#### **4. Faculty & resident training**

FDPs, BLS/ACLS, GCP, medico-legal training

#### **5. Research training**

Methodology, biostatistics, proposal writing scientific writing

#### **6. Subspecialty exposure**

High risk pregnancy, infertility, oncology, urogynaecology, fetal medicine basics

#### **7. Public health training**

RMNCH+A, screening camps. adolescent health

#### **8. Digital training**

e-logbook, CTG modules, teleconsultation, online courses

#### **9. Patient safety & quality**

Infection control, BMW, LAQSHYA, audit techniques

#### **10. Professionalism & soft skills**

Communication, breaking bad news, stress management, leadership

### **Department of ENT**

- PG/ UG seminars
- Case-based learning series (“ENT Grand Rounds”)
- Planning to setup Simulation-based training:
- Difficult airway drills
- Epistaxis control model
- Tracheostomy simulation
- Suture learning skill modules
- OSCE/OSPE skill stations designed by faculty & residents
- Skill-Based Training Programmes
- Temporal bone dissection training
- Plan to conduct Tracheostomy and airway management workshops

- Plan to setup Endoscopic sinus surgery skills lab
- Plan to setup Endoscopic ear surgery orientation modules
- Plan to conduct Simulation training for epistaxis, foreign body removal, airway emergencies
- Hands-on audiology exposure (pure tone audiogram, impedance, BERA)

### **Department of Anaesthesiology**

1. Dr Bindu -Pain and palliative care classes for anaesthesia faculty and residents
2. CPR classes for nurses and non- academic OT staff.

### **Department of Emergency Medicine**

**Details of Academic Programs from the Emergency Medicine Department are as follows:**

- 3) Mass BLS session on World heart day'2025 (29 September 2025): Over 1000 people are trained in BLS in a one-day training session conducted at Government medical collage Kannur.



- 4) Observed CPR awareness week (13 to 17 October,2025) conducting multiple BLS sessions for public along with poster presentation competition involving students and junior doctors from different specialties.



- 5) Engaged in student training programs which includes MBBS Students, Induction Programs for interns. BDS doctors in a regular interval to uplift their standards in patient management.





### List of Contributors

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