



CMC Vellore
Year Book
2018 - 2019



Not to be
**MINISTERED
UNTO**
but to
MINISTER

OUR VISION

The Christian Medical College, Vellore seeks to be a witness to the healing ministry of Christ, through excellence in education, service and research.





OUR Mission

The primary concern of The Christian Medical College, Vellore is to develop through education and training, compassionate, professionally excellent, ethically sound individuals who will go out as **servant-leaders** of health teams and healing communities. Their service may be in promotive, preventive, curative, rehabilitative or palliative aspects of health care, in education or in research.

In the delivery of health care, CMC provides a culture of caring while pursuing its commitment to professional excellence. CMC is committed to innovation and the adoption of new, appropriate, cost-effective, caring technology.

In the area of research, CMC strives to understand God's purposes and designs, fostering a spirit of enquiry, commitment to truth and high ethical standards. Research may be aimed at gaining

knowledge of the fundamental bases of health and disease, at improving interventions or in optimising the use of resources.

CMC reaffirms its commitment to the promotion of health and wholeness in individuals and communities and its special concern for the disabled, disadvantaged, marginalised and vulnerable.

CMC looks for support and participation in its programmes in education, service, outreach and research, from friends and like-minded agencies in India and abroad, in a true spirit of partnership.

In its role as a **living witness in the healing ministry of Christ**, CMC seeks to work in partnership both with the Church in India and the universal Church, and their institutions.

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Foreword

It is time to look back and recall God's faithfulness in leading us through another year and enabling us to begin a new year anticipating his continued provision and blessing.

Healthcare is at cross roads due to rising healthcare costs, with quality healthcare accessed mainly by those that have and restricted to the have-nots. The alarming increase in non-communicable diseases and the limited progress in combating preventable and communicable diseases has impacted the health system in India significantly. In this setting, it is important that institutions are geared to meet the challenges of providing healthcare to a variety of needs.

One of the strengths of Christian Medical College (CMC) Vellore, is the integration of service, education, research and outreach. Primary and secondary healthcare through Community Health and Development (CHAD), Rural Unit of Health and Social Affairs (RUHSA) and Low Cost Effective Care Unit (LCECU) focus on rural, tribal and urban poor in addition to social upliftment and welfare. At the other end of the spectrum, CMC provides cutting-edge and high-end tertiary care in the town campus. The new campus that will be commissioned next year will add a further dimension to higher specialties and trauma. The secondary hospital at Chittoor, Andhra Pradesh, with focus on relevant tertiary care, is growing at a fast pace and catering to the people over there.

The "both-and" philosophy of providing high tech care as well as involvement in primary and preventive health, catering to patients locally as well as nationally and the provision of care to those who can and cannot afford, are things that set apart CMC. All this is possible because of the hard work and dedication of the staff who work tirelessly to meet patient needs. The support and inputs from alumni, retired staff, Friends of Vellore (FOV), council members and well-wishers have been vital to our growth and development.

The Year Book capture some of the highlights of the institution over the last year. It provides an overview of the services available and the patient numbers. The book also contains a snapshot of the accolades of the faculty and institution over the last year.

I am confident that the Lord will continue to enable CMC to be a shining light to nation in the provision of healthcare as well as train individuals to go and serve the nation.

J.V. Peter
Director



The Story of CMC Vellore

Baby fondly held by grandmother in CHAD

The Christian Medical College has a state-of-the-art hospital in Vellore and its 'circumference of healing' has steadily widened from Tamil Nadu to Andhra Pradesh and the nation, to southeast Asian countries, Africa and globally, in different ways. Over a century, at least 300 million people in India have been touched, directly or indirectly, by CMC's rays of healing.

Here is the growth of CMC in a nutshell. From 1900 to 1918, its predecessors offered only basic healthcare while preparing to provide for medical education. From 1918 to 1942, it offered a licentiate or diploma in medical education and higher and lower certificates in nursing. Between 1942 and 1950, it offered only the MBBS degree. From 1950 onwards, it provided post-graduate training and from 1960 onwards, CMC launched higher specialty training for its students.

CMC's growth trajectory has been steady and progressive.

A little more than seventy years ago, in 1947, when its founder Dr Ida Scudder, or 'Aunt Ida'

as she was known, was 77 years old and had 'retired', it was already a highly-reputed hospital with 600 beds, with a total medical and non-medical staff of around 600, about 50 faculty, and 50 students taken in to study medicine.

In 2018-2019, CMC Vellore on any single day catered to 7294 outpatients, looked after around 1781 in-patients (bed occupancy 78.05 per cent), carried out 129 medical operations, saw 40 babies born, educated around 2000 students and incurred daily running expenses of Rs. 3.5 crores.

This well-oiled engine is kept running daily by a total staff strength of 10,181 of whom 1,914 are doctors, 3206 are nurses and teaching staff (non-medical) and technical staff number 2146.

Running expenses for 2018-2019 were Rs. 1,271.20 crores and costs for infrastructure development Rs.61.45 crores. The important areas of subsidy were healthcare to the tune of Rs. 222.26 crores and educational subsidy of Rs. 89.6 crores.

At CMC Vellore, patient services are about availability, accessibility and affordability. CMC

also insists on trustworthy relationships built with patients rather than the usual service-for-fee arrangement. The family-based approach is another aspect of CMC's healing mission. CMC understands that behind many illnesses there is a story, an environmental or societal issue, that must be addressed. Through its chaplaincy and social workers, it resorts to a holistic, family-based approach.

CMC's strategy is need-based and responsive to

the emerging needs of society. The current needs, from a public health perspective, are road-trauma management, metabolic emergencies, geriatric and paediatric emergencies, epidemics like dengue and similar diseases, the escalating numbers of pollution-related respiratory diseases in children, cancer in the young, and adolescent behavioural disorders. CMC seeks to stand in the gap in the face of increasing lacunae in the national healthcare strategy to meet contemporary healthcare crises.

The Story Continues...

CMC seeks to establish a multi-speciality Level 1 Trauma Care Service with all related disciplines to ensure integrated total care of those affected by trauma. This will be developed in a new campus besides the National Highway at Kannigapuram, on the outskirts of Vellore. A cancer centre and a multi-speciality hospital will also come up together with the Trauma Center.

CMC's new trauma centre is situated directly on NH 47 making it easily accessible to ambulances and all users. Its infrastructure will include 1500 beds (including 30 in the ICU), operating theatres, radiological and laboratory diagnostic facilities and an ambulance fleet.

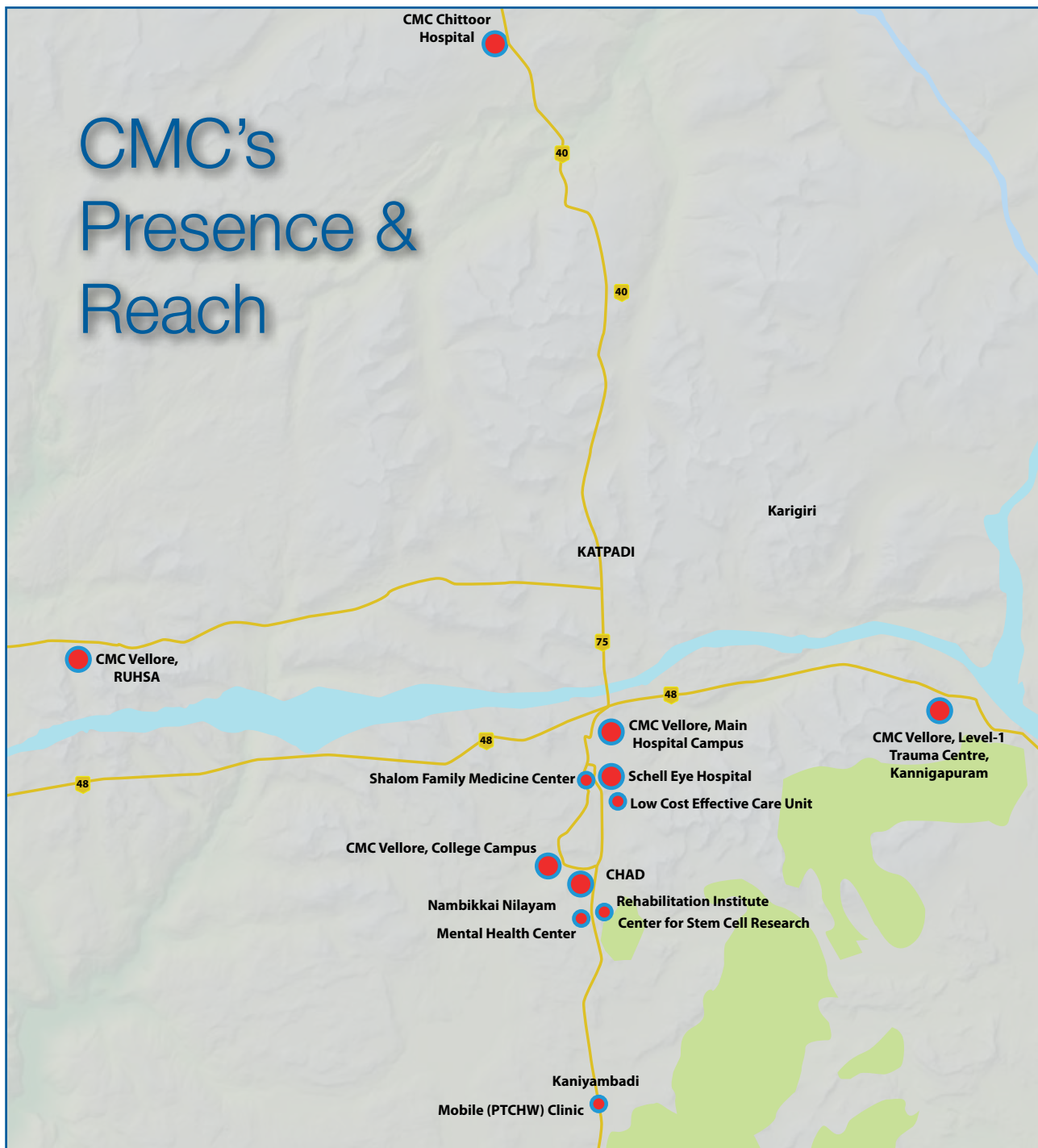
Alongside the hospital university affiliated courses in Traumatology at post-graduate, fellowship and auxiliary levels to train medical

and paramedical personnel in the effective delivery of holistic trauma care will be offered.

The Trauma Care Centre will be approximately 81000 Sq. ft. It is being designed with the capability for disaster management with provisions for oxygen and vacuum, water and medical power. There will be 6 dedicated Operating Rooms, 14 recovery beds, 26 ICU beds and 4 ICU isolation rooms for patients who need isolation after surgical procedures. Resuscitation stations will be provided with anaesthesia and surgical pendants with Oxygen, Vacuum, Compressed air and Raw / Standby / UPS power. Consulting Rooms are planned where patients who do not need to be admitted will be seen by the doctor and discharged after receiving first aid or other treatment. A quiet counselling room will also be provided.

Bird's eye view of the Kannigapuram Campus





The **CMC Vellore Hospital** campus offers a huge range of different medical specialities, with advanced diagnostic and therapeutic services, alongside primary and secondary level care for local communities, catering to 109,528 Inpatients and 2,246,664 Outpatients in 2018-19.

The CMC Chittoor Hospital, in southern Andhra Pradesh, now a rapidly growing broad-speciality hospital has 130-beds, four state-of-the-art operation theatres, a good diagnostics laboratory that can handle clinical pathology, biochemistry, microbiology and virology. It also runs outreach programmes for primary health centres and schools.

The Rural Unit for Health and Social Affairs (RUHSA)

is CMC's most comprehensive rural site, serving critical needs such as primary and secondary care for families, fieldwork and education for doctors, nurses and allied health professionals, clinical research and numerous family support programs for local residents.

The expansion of its Outpatient Department has created new spaces for programs that will benefit the 128,000 residents of the K.V. Kuppam block.

The Low Cost Effective Care Unit (LCECU)

of CMC caters to the needs of those living in the urban slums of Vellore. LCECU works holistically

to bring not only healing to body but also to familial and community relationships.

CMC's **Community Health and Development programme (CHAD)** is the epicenter of CMC's community health program. It has its own Training Center, outpatient clinic and 140-bed secondary-care hospital and provides related training to medical, nursing and paramedical students, postgraduates and CMC staff. It is a world-renowned centre for epidemiological and translational research. CHAD serves 82 rural communities of the Kaniyambadi block and the tribal hamlets of Jawadhi hills.

CMC Vellore, is at present constructing **South India's first ever Level-1 trauma centre** with a new 1500-bed hospital on an 88-acre campus at Kannigapuram, Tamil Nadu. Kannigapuram will add capacity and capability to CMC's trauma facilities, cancer services and related departments, super specialities, advanced research and tertiary care and outreach systems.



Returning to her roots in Jawadhi



RUHSA follows-up on a patient through home visits

Health education near homes by CHAD staff



CMC's Milestones through a century of healthcare

2000 Ida S. Scudder Centenary Centre for Women and Children
 2001 PACS for radiology
 2002 Medical Oncology Unit
 Cytogenetics lab
 2003 Vellore Bombay Artificial Limb
 Bioengineering department
 Palliative Care unit
 2004 H1 Grading by Investment Information and Credit Rating Agency
 Rheumatology unit
 Medical Genetics Unit
 Telemedicine unit

1981 Ophthalmology hospital in the Schell campus
 1982 Degree programmes in Occupational Therapy and Physiotherapy LCECU
 1984 Continuing Medical Education department
 1985 Epidemiology Resource Centre
 1986 National AIDS Reference and Surveillance Centre Bone marrow transplant (India's first) MSc Biostatistics
 1987 CONCH

1961 Successful open heart surgery (India's first) Middle ear microsurgery (India's first)
 1962 Medical Records and Physiotherapy courses
 1965 Fleming Memorial Research Laboratory in Virology
 1966 Rehabilitation Institute (India's first)
 1968 Occupational Therapy and Hospital Administration courses
 1969 College of Nursing Post-graduate degree courses

1942 Medical College MBBS degree course
 1945 Lab Technician training course
 1946 College of Nursing degree course
 1947 Male medical students' join
 1948 Reconstructive surgery on leprosy patients (The world's first) Neurological Sciences department (South Asia's first) Rural Health Centre at Kavanur

1940s

1950s

1960s

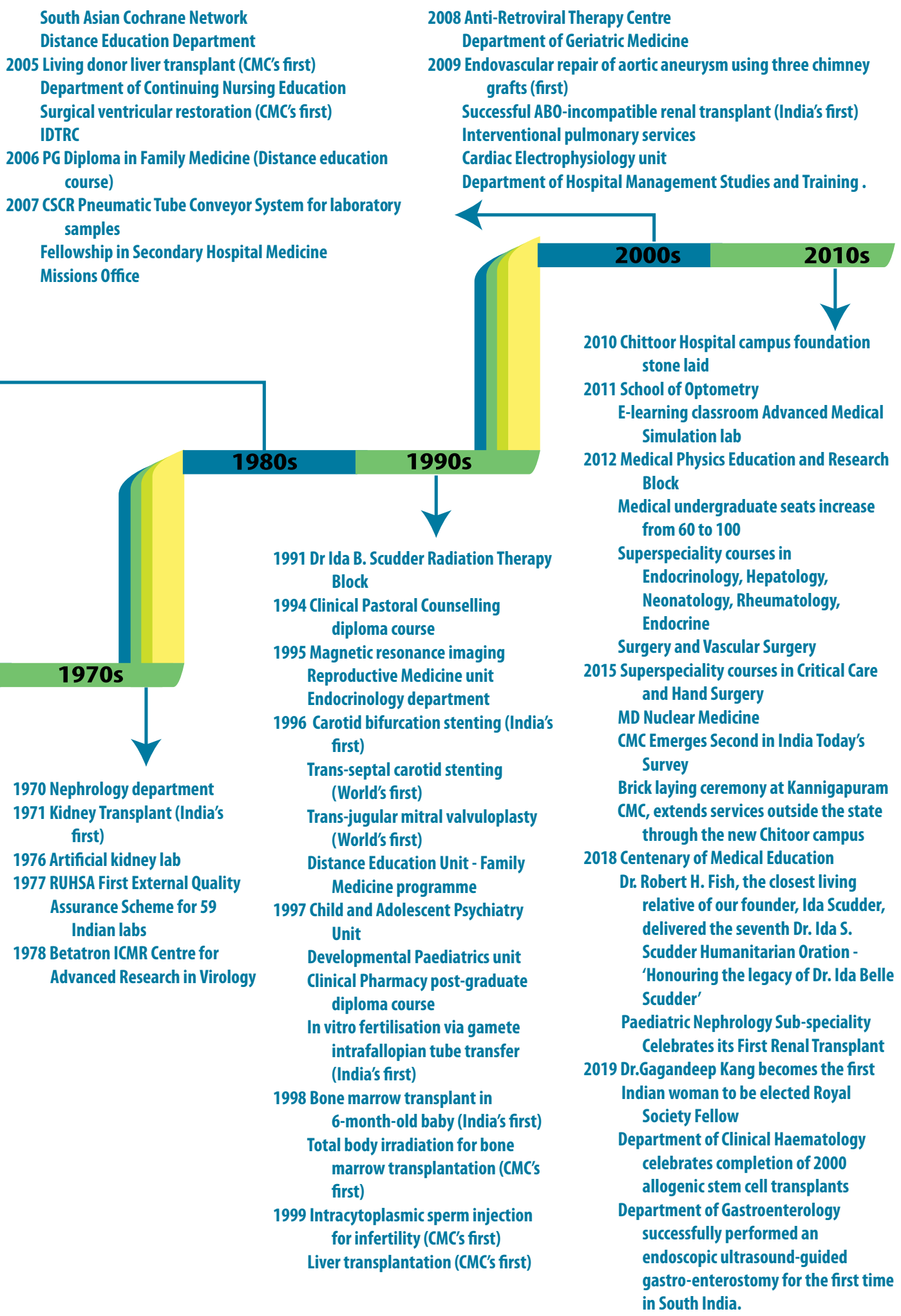
1950 MD and MS courses
 1954 Radiographer training course
 1956 Mental Health Centre Nambikkai Nilayam (an institute for children with special needs)
 1957 Rural Health Centre at Bagayam Pharmacy diploma course

1900s

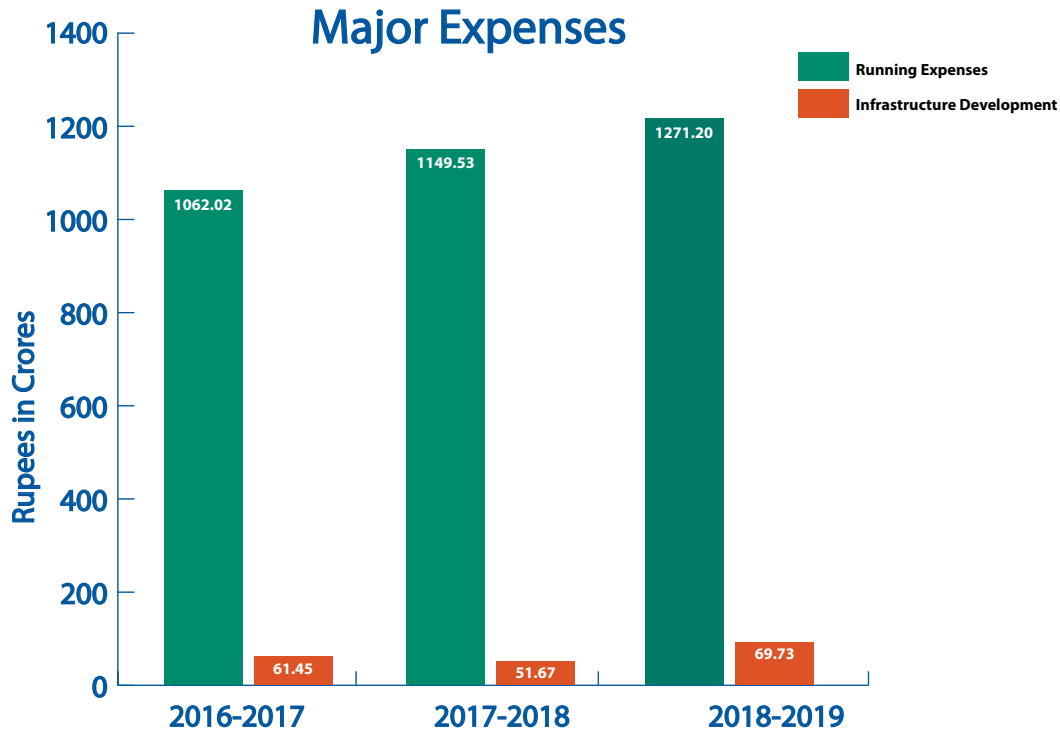
1910s

1918 Medical School for Women LMP course

1900 Single-bed dispensary
 1902 Mary Taber Schell Memorial Eye Hospital
 1903 Training course for compounders
 1906 Roadside Clinics
 1909 Nursing School diploma course



CMC's Financials 2018-19



The Financial model of CMC has evolved into a volume-based economy. The low-cost care has led to a high patient load which has steadily helped the organisation to keep its per-capita margins reasonable. A positive cascade has enhanced the financial turnover.

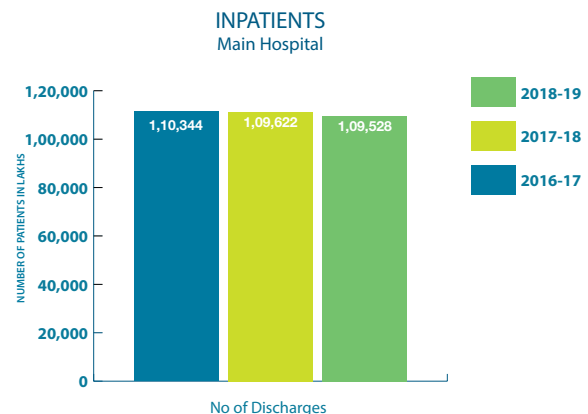
The volume-based economy enables the common man to have access to basic healthcare in the face of spiralling inflation and economic shocks. CMC's surpluses are made by numbers and small margins that add up to big sums. For instance, there are around 16,000 biochemical samples being tested in the hospital every day.

Sources of Income (2018 – 2019):

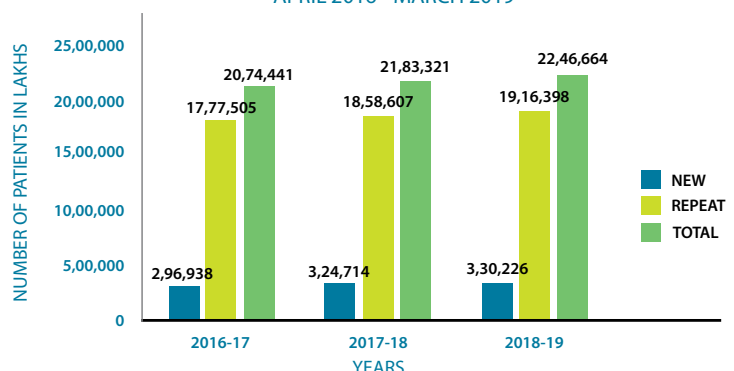
Patient fees in 98.90% Student fees in 0.96%

Contribution from supporting churches and other organisations in 0.14%

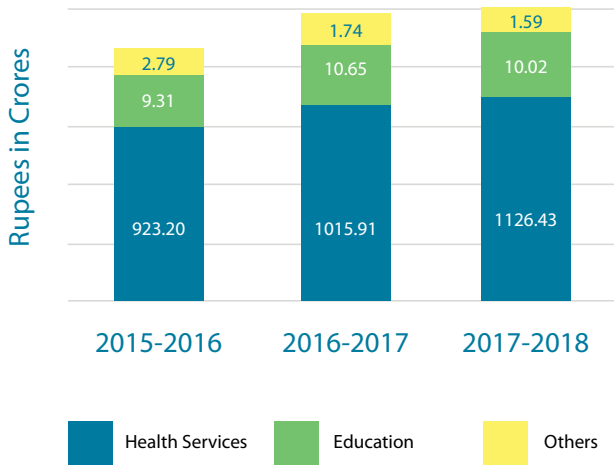
Daily running expenses Rs. 3,49,23,200



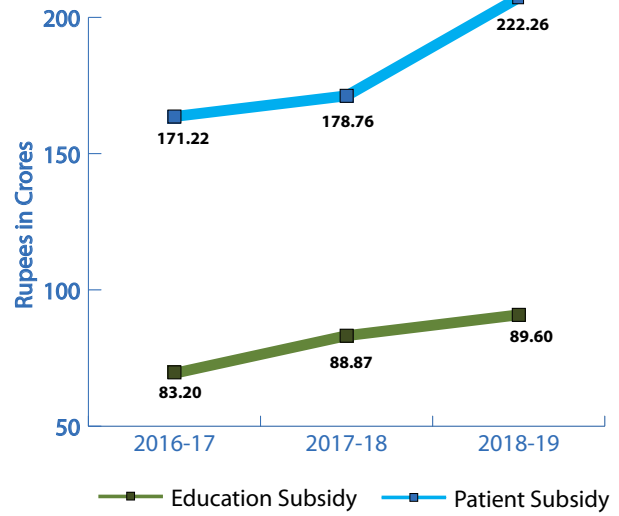
A COMPARISON OF OUT-PATIENTS APRIL 2016 - MARCH 2019



SOURCES OF INCOME



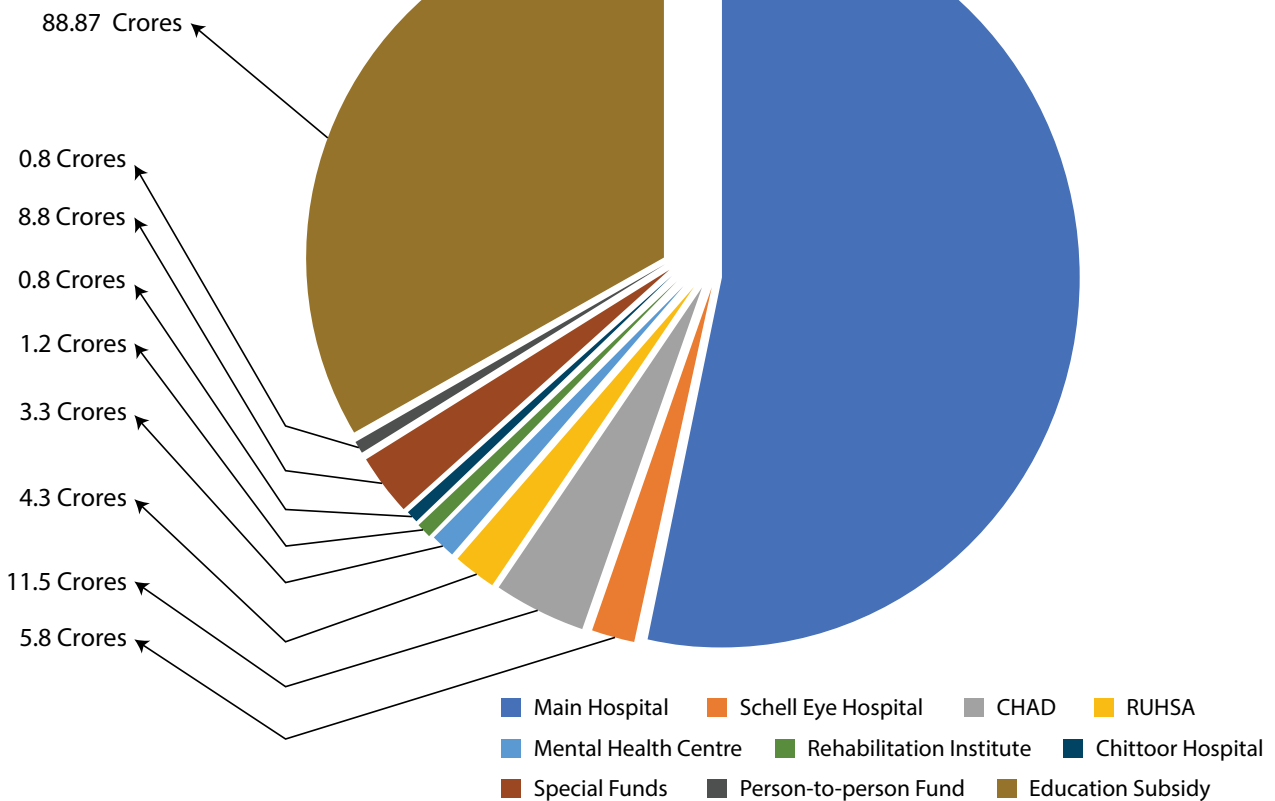
SUBSIDY



Charity	2016/17	2017/18	2018/19
Rupees in Crores			
Total charity	254.42	267.63	311.86
Subsidised Healthcare	171.22	178.76	222.26
Subsidised Education	83.20	88.87	89.60

CHARITY 2017-18

Total: 267.63 crores



CMC Gives

The Chatram

The CMC funded Hospital Chatram (The Shelter) has its beginnings in 1906 when Dr Ida Scudder began her roadside clinics; the patients who required an outpatient treatment were provided a temporary shelter to accommodate their stay. For the poor patients, a low cost accommodation was necessary. It was built in 1968 and had twelve rooms with cooking facility and one dormitory. The charges for the rooms were Re. 1 per day and dormitory accommodation was free of cost. In 1988, five more rooms and one dormitory were built. The extension of the Chatram was possible by the kind donations from Friends of Vellore including Mr B C Jain and friends from West Germany. In 2010, two more dormitories and a room was dedicated.

The Chatram now has a total of 18 rooms and 4 dormitories. Charges are Rs. 45/- per day for a room facility and Rs. 25/- for the dormitory. A

total of 490 patients were accommodated in the Hospital Chatram during the year 2018 – 2019.

A chaplain is designated to visit the residents of the Chatram once a week. A full time caretaker lives in the Chatram premises to look after the needs of patients.

The breakfast scheme was started in April 2018, by the MBBS batch of 1970 and well wishers from Vellore. The Scheme provides breakfast for the inmates of Chatram 5 days a week.

The issue of Manna Midday Meals taken in Chatram premises started in April 2018. The scheme is funded and managed by the current and ex-staff of the Orthopaedics, Spinal Disorders Surgery and HLRS Departments.

A new water heater was installed in February 2019 in Chatram received as donation from a group of PG medical students.

A well-wisher from the MBBS batch of 1970 donated 4 Pedestal fans to the Chatram



A woman relaxing in the peaceful surroundings of the Chatram

Blessy- The Miracle Baby

A poor distraught couple walked into CMC, early in 2017. Their only wish was to hold a baby in their arms. Unfortunately, previous attempts left them with three dead infants. The pressures of being childless in a community was immense and often it is the mother who carries the blame. The couple had been in and out of hospitals, hoping to conceive a healthy baby.

For the fourth time the mother conceived again. Blessy was born on December 2017. This baby was however, diagnosed with cystic fibrosis and Blessy required further care.

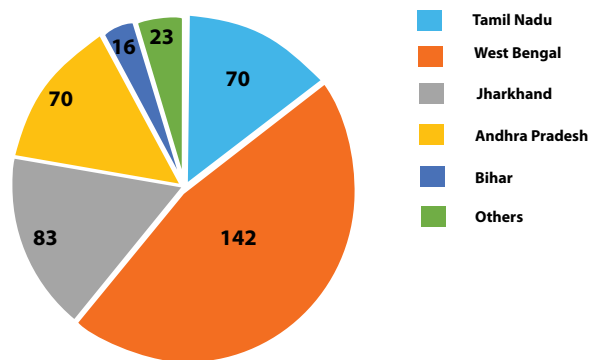
Chatram proved to be a home away from home for this small family. The child was frequently admitted with complaints of cough, cold and vomiting. She was under the care of the Paediatrics department for the treatment. For two years, they stayed in Chatram and became the favourite among other inmates. Mr. Arulappan, caretaker of Chatram, played an important role in adding to the peace of the family.

Chatram was a place which provided them with holistic healing and physical nourishment. Regular prayers by Rev. Subir Lal and staff and the breakfast and Manna Midday Meals Scheme provided the sustenance the family needed.

Blessy celebrated her first birthday in Chatham and is a miracle. Blessy fought her illness and responded well to treatment. Soon she become healthy enough to go home. Till then, Chatram was a home away from home for baby Blessy.

(Note: Name changed)

State-wise distribution of Patients



Flood Relief

When the State of Kerala was devastated by floods in August, 2018 and Cuddalore was affected by the cyclone Gaja in 2019, the Department of Emergency, co-ordinated the relief efforts and sent multiple teams to the flood hit areas. The team distributed food items, clothes, toiletries and medicines. The residents of the various campuses of CMC students from Ida Scudder School and MBBS and AHS were volunteered in collecting and packing the relief materials.



Collection of items for flood relief in the CMC campus



The CMC team setting out for relief work in Cuddalore



Dept _____

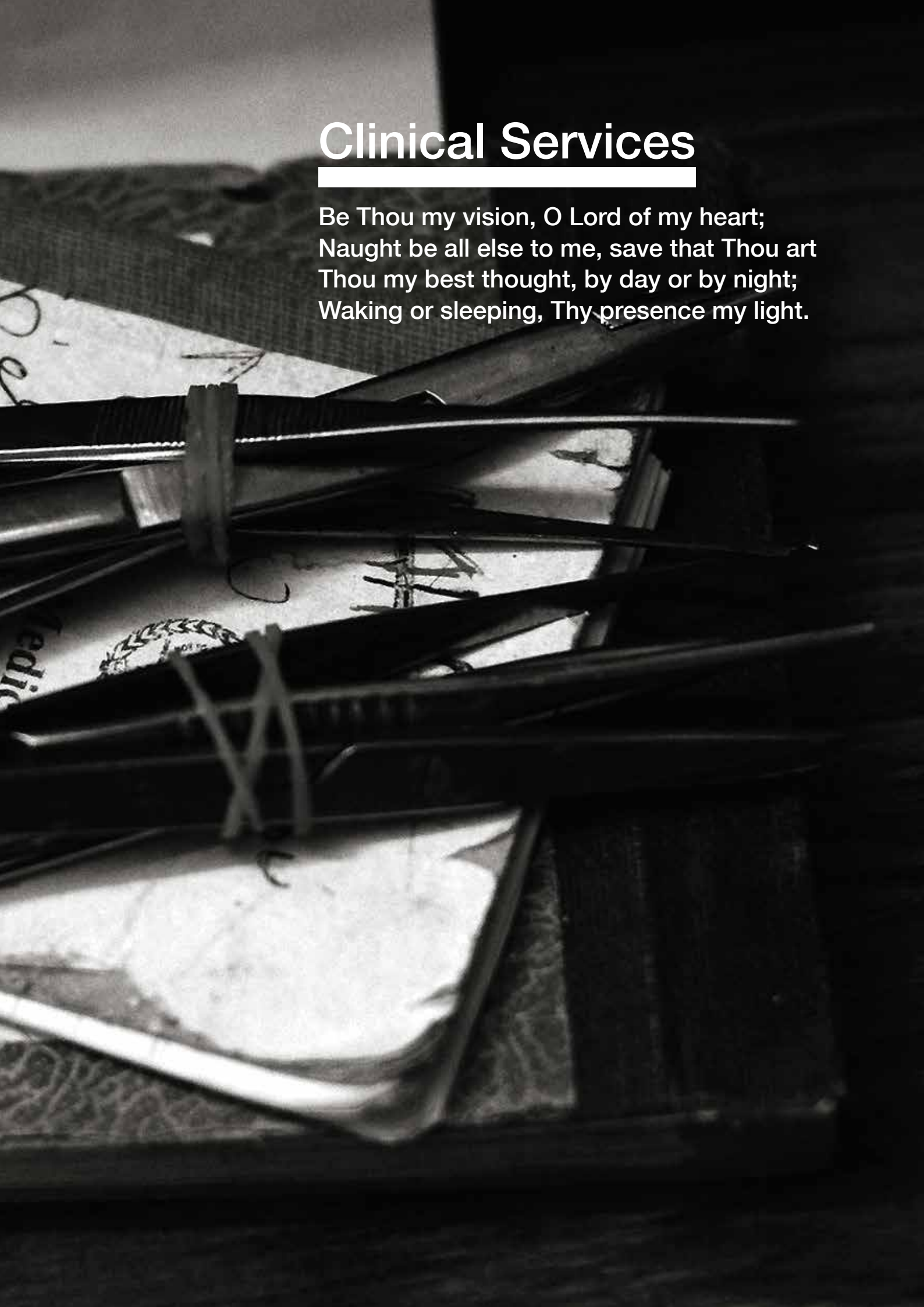
REED

NO

ORE

Clinical Services

Be Thou my vision, O Lord of my heart;
Naught be all else to me, save that Thou art
Thou my best thought, by day or by night;
Waking or sleeping, Thy presence my light.



A DAY AT THE MAIN CMC HOSPITAL

7,294

Outpatients

1,781

Inpatients

129

Operations

40

Births

2,303

Radiological Tests

46,222

Lab Tests

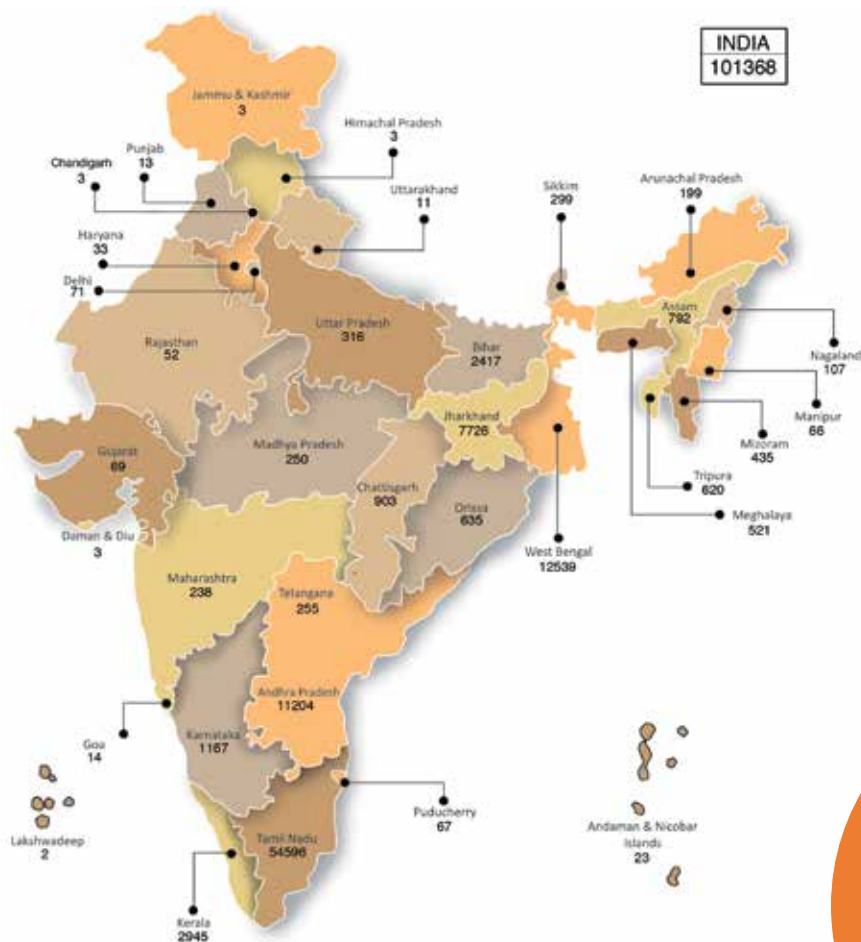
78.05%

Bed occupancy



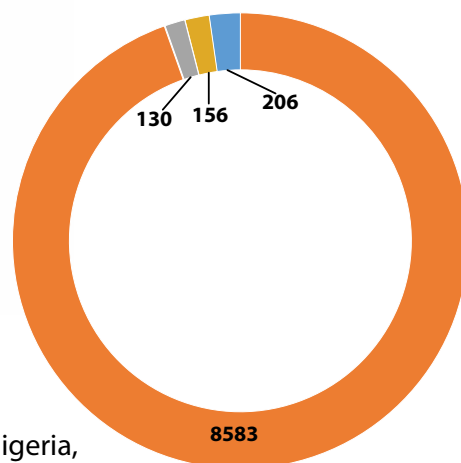
The everyday rush of patients in the Main campus

Geographical Distribution of Inpatients



International Inpatients

- Bangladesh
- Nepal
- Bhutan
- Srilanka, Oman, Nigeria, Tanzania, UK, etc.



CMC STATISTICS (APRIL 2018 -MARCH2019)

	Beds	inpatients	outpatients	Births
Main Hospital	2,282	1,09,528	22,46,664	14,314
Community Health and Development	140	11,160	1,04,455	4,103
Rural Unit for Health and Social Affairs	68	3,365	90,631	1,143
Schell Eye Hospital	100	8,294	1,38,152	NA
Low Cost Effective Care Unit	48	2,079	70,125	168
Shalom Family Medicine Centre	NA	NA	38,579	NA
Mental Health Centre	98	840	1,11,364	NA
Nambikkai Nilayam	24	115	4,689	NA
Rehabilitation Institute	83	NA	NA	NA
CMC Chittoor Hospital	130	5,426	1,38,941	45
Total	2,973	1,40,807	29,43,600	19,773

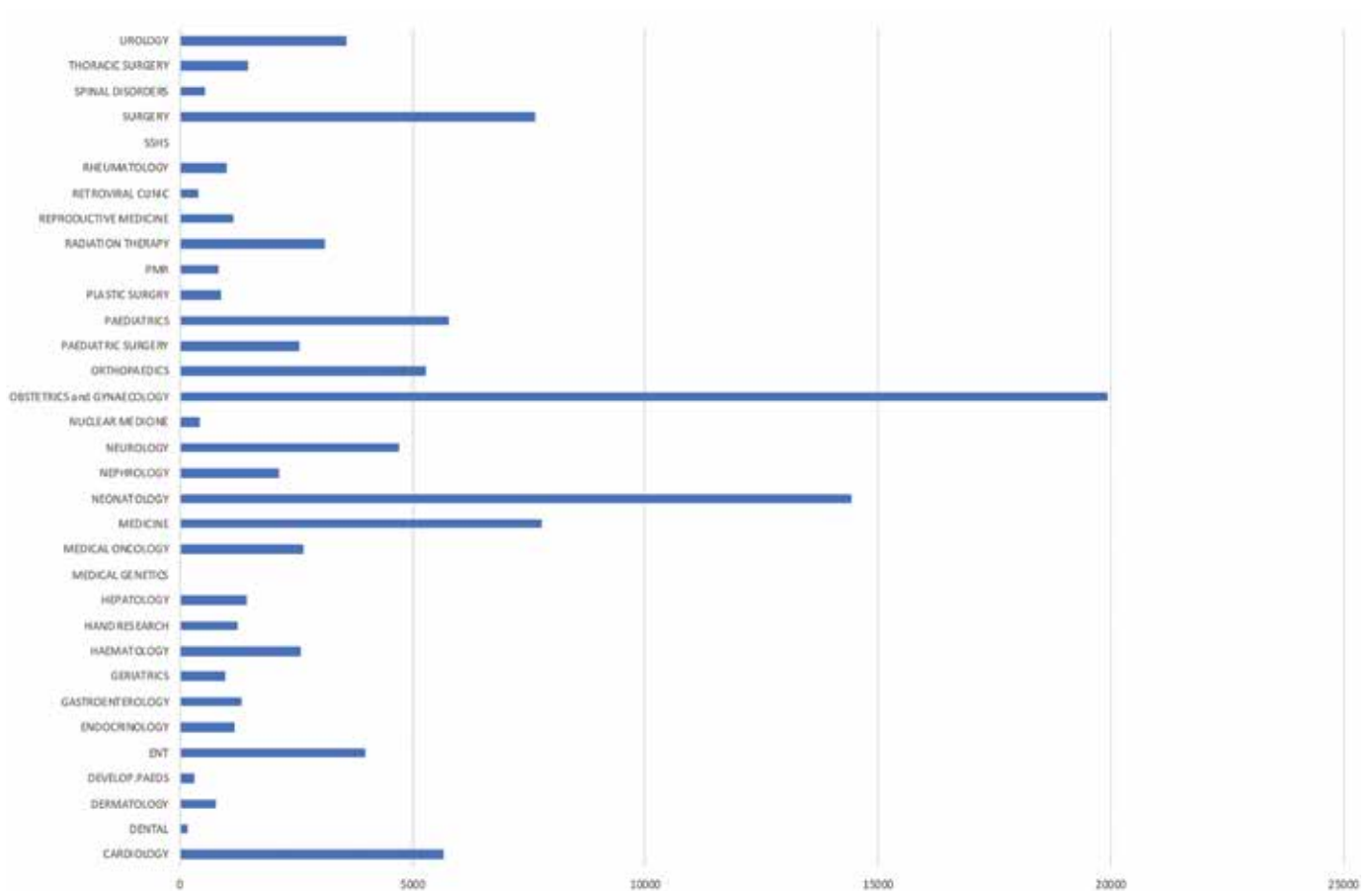
Distribution of Patient by Specialty

Special Clinics* started during 2018 - 2019

Bone Marrow Transplant	Interstitial Lung Disease Pulm Sarcoid
Cardiac Arrhythmias and Pacemaker Clinic	Memory and Cognition Clinic
Cdc Medicine Clinic	Oral and Maxillofacial Services
Dental Comprehensive Care Clinic	Paediatric Psoriasis Clinic
Falls and Balance Clinic	Paediatric Vitiligo Clinic
Heart Valve & Structural Heart Disease	Pden-Inborn Errors Of Metabolism
Hemodialysis Opd	

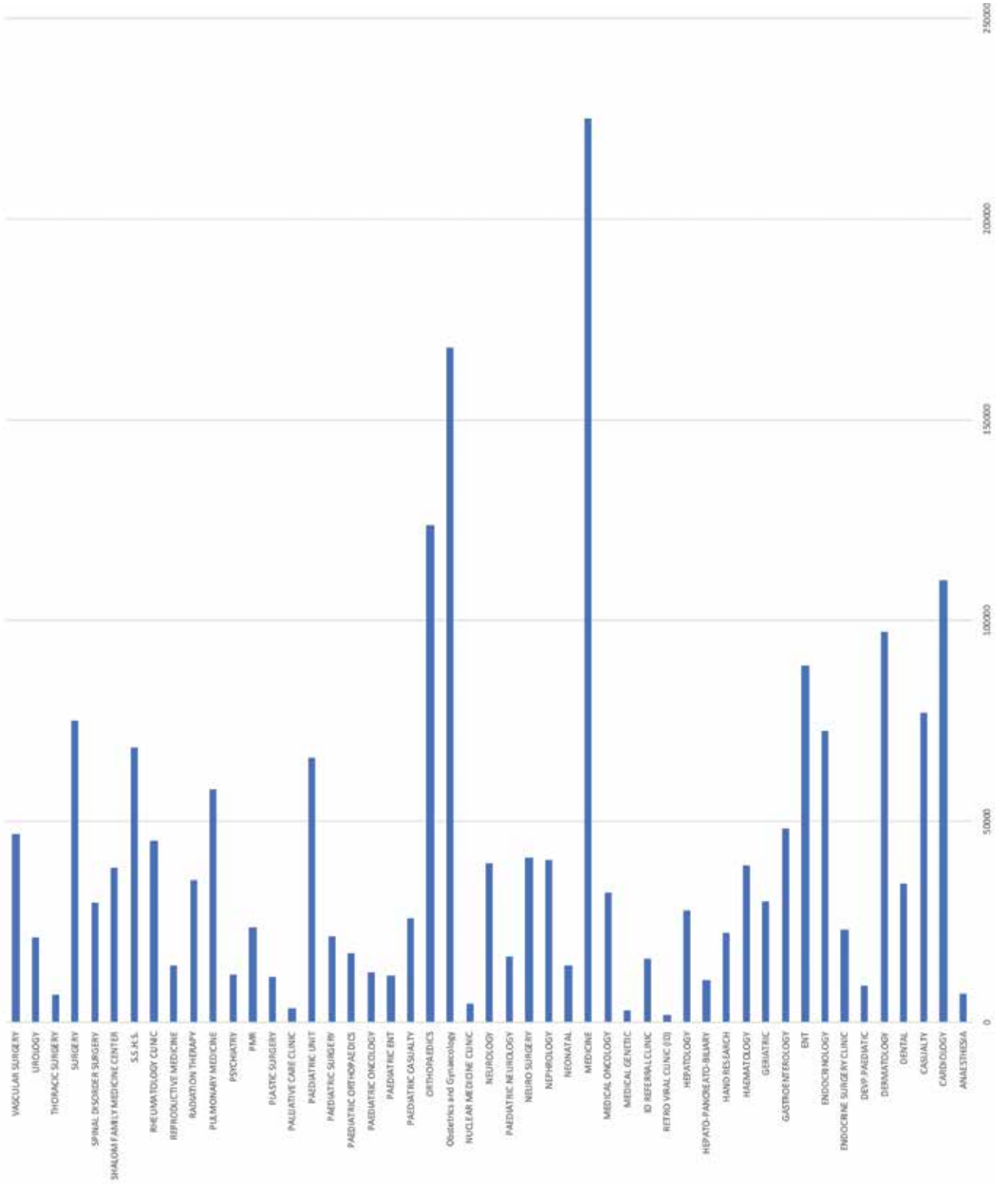
* Nearly 100 Special Clinics are running regularly

Distribution of Inpatients



Note: The data represented shows approximate values. The Special Clinic numbers have not been represented.

Distribution of Outpatients



Diagnostics tests (2018-2019)

Clinical laboratory tests

Clinical Biochemistry	54,35,770
Clinical Pharmacology	28,037
Microbiology and Serology	5,75,178
Virology	3,65,292
Clinical Pathology	64,69,486
Blood Bank tests	13,62,460

Cardiology

Ambulatory BP	1,080
Cardiac Diagnostic Angiograms	3,381
ECG	1,45,010
ECHO	67,238
Hollter monitoring	4,705
Treadmill	9,798

ENT Procedures

Audiometries and Audiology	40,275
Diagnostic	2,960
Scopies	33,887

Dental

X-rays	20,212
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Haematology

Antenatal Diagnosis by DNA testing	100
Haematology	14,008

Endocrinology 41,670

Medical Genetics 470

PMR

Gait and Video Analysis 181

Nuclear Medicine studies (Including PET CT) 11,622

Neurological Sciences

EEG 4,306

EMG 9,066

Stereotactic biopsies 23

Rheumatology

Immunology 1167

Urology

Uroflowmetry 9,367

Radiodiagnosis

CT Scans 54,474

MRI Scans 38,259

Mammography 4,588

Plain X-rays 4,81,541

Ultrasound 1,23,135

General Pathology

Biopsies 51,055

Cytology and FNAC 22,138

Molecular Pathology 915

Autopsies 98

Pulmonary Medicine

Pulmonary Function Tests 53,650

Cytogenetics test 1500



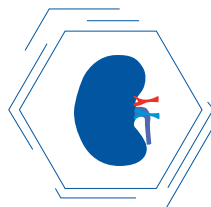
Therapeutic Procedures (2018-2019)

Anaesthesia	
in OR	39,329
outside OR	11,439
Emergency Surgeries	13,756
Radiation Therapy	
Brachytherapy procedures	252
External radiotherapy treatment	2417
Chemotherapy	1150
Developmental paediatrics	
Devp. Paed. Assessment	6405
Devp.paed.Therapy	1047
Occupational Therapy	5106
Speech Therapy	6226
Dermatology procedures	26,664
Radiosurgery	899
Radiodiagnosis	
DSA Procedures	4,033
Blood transfusion	75080
Gastro	
Endoscopy procedures	23,456
ENT Therapies	7,478
Haematology	
Bone marrow transplants	255
Cardiology	
Cardiac interventions	2,689
Ophthalmology	
Eye operations	9,374
PMR	
Prosthetic and Orthotic Appliances	40, 558
Occupational Therapy treatments	1,32,690
Physiotherapy treatments	1,47,044
Speech Therapy treatments	10,491
Rheumatology	
Immunology	3505
Dental Procedures	82,913
Pulmonary Theapeutic	4,089



Blood transfusions

75080



Kidney Transplants

97



Bone Marrow Transplants

255



Eye Surgeries

9374



Dental Procedures

82913

Nephrology	
Kidney Dialysis	30,651
Kidney Transplants	97
Nuclear Medicine	
Nuclear Therapy	630
Neurology	
Radiosurgeries	82
Surgeries	
Main OR, CB and Day Care operation	39,643
Urology procedures	17,387

Quality management cell

Encouraging accountability and self reflection

The Quality management cell has a hub and spoke model, which encourages the involvement of the Department Quality Managers (DQMs) of various units to take ownership of quality management by regular audits in their individual areas, as

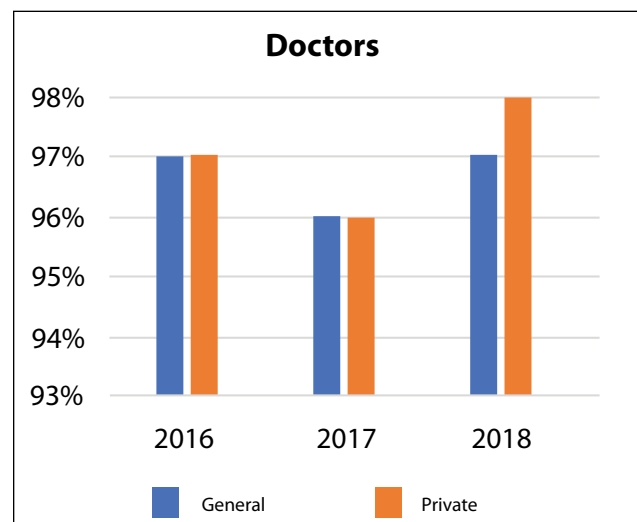
opposed to central policing.

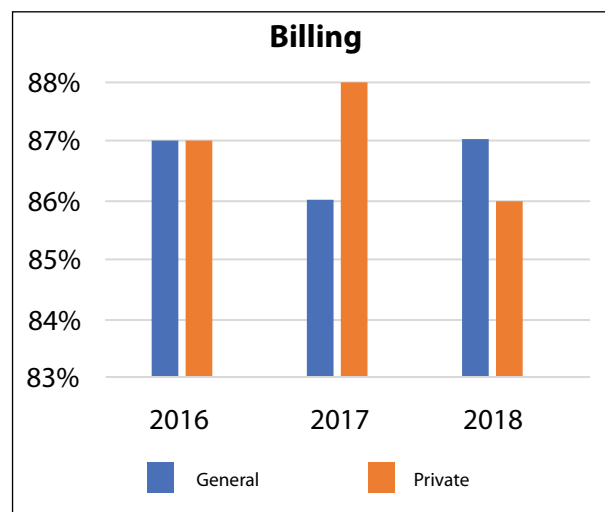
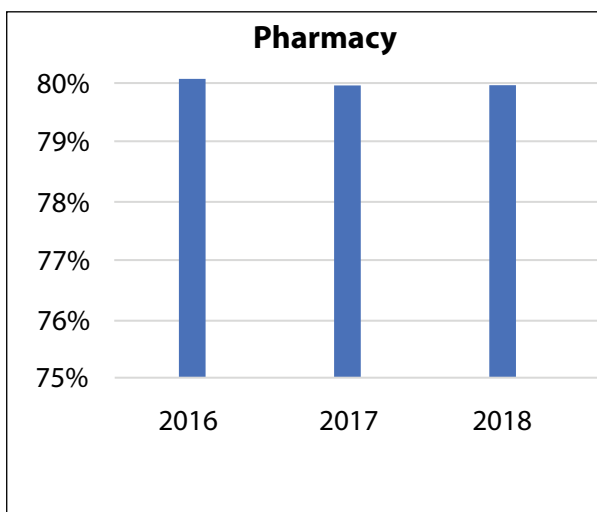
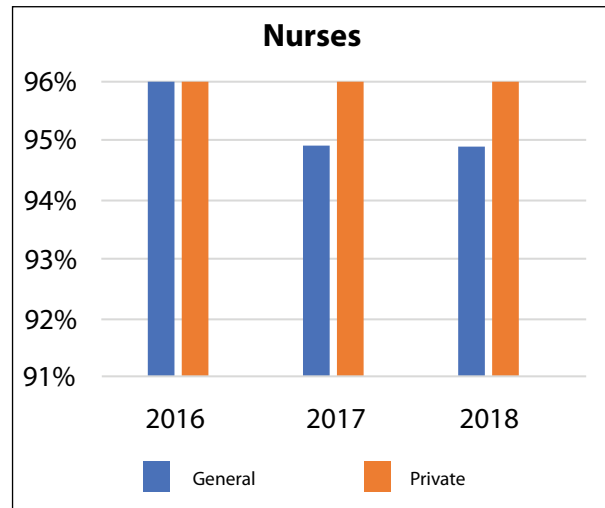
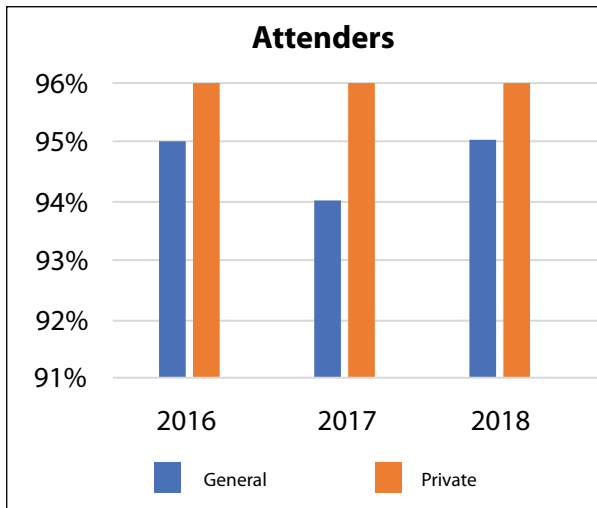
Rating of skills in communication by patients of different staff in the hospital is an example of how we are urged and encouraged to reach greater heights.



Careful explanations under Developmental Paediatrics

Patient feedback on Kindness and Courtesy of CMC Staff





Patient Care Initiatives

THE PATIENT PORTAL MOBILE APP

- DIGITAL PAYMENT**
You can make payments using netbanking, credit/debit card, or UPI.
- SECURE**
The payments are secure and the process is easy to use.
- FAST**
The services offered are fast and user friendly.

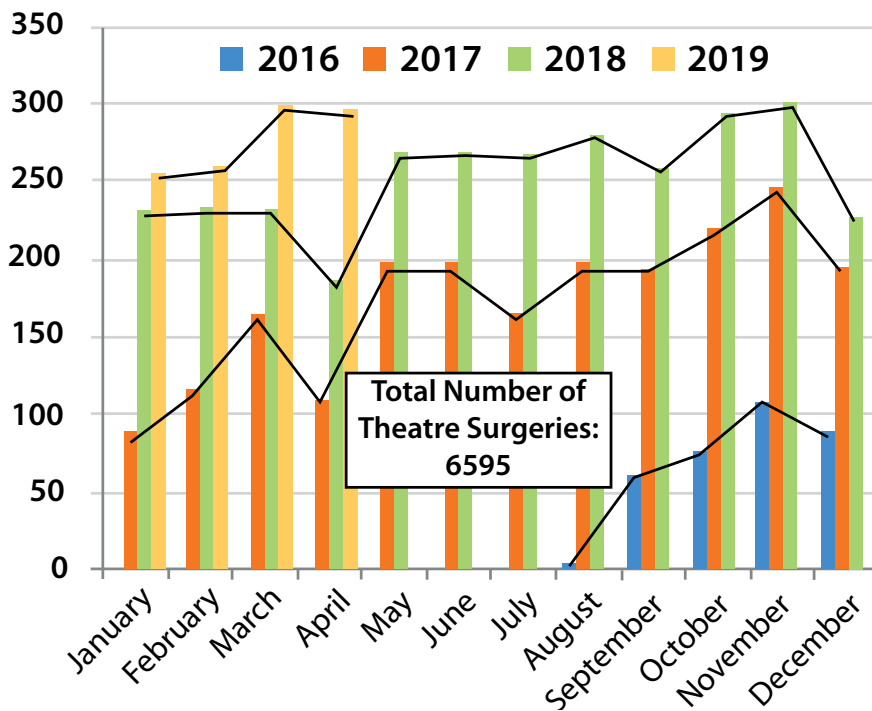
The dedication of the CMC's first 'Mobile App' took place on 5th September, 2017. The newly installed application is unique in its compatibility to work on all digital payment methods like Net-banking, Credit / Debit cards

and authentication through CHRIS card. It ensures faster services at the comfort of patients home and provides a secure and easy interface. This app can be used to process multiple patients' services too. While accessing through the CHRIS card authentication method the process is faster and the CHRIS card holders need to provide the CHRIS card pin number only, and the payment is processed instantly unlike banking sites where some amount of time is spent in passwords, OTPs, verifications etc.

Reaching out to the Vellore Citizens

Through the newly functioning CMC Diagnosis Centre (CDC), a General Medicine Clinic will function to cater to the needs of the local people from the town, Sathuvachari and Vallalar area.

CMC Vellore, Chittoor Campus



Beds: 130
Inpatients : 5426
Outpatients: 1,38,941
Surgeries : 3241

The CMC Vellore Chittoor Campus has shown a significant growth and development over the past year. The Neonatal and Maternity Facilities were dedicated. More than 150 deliveries have been conducted since March 2019, the Chittoor district contributes to about 10% of the mother and baby related services in Vellore this been a bonus to the people of Chittoor. The Neonatal facility has the complete paraphernalia and staffing required to support ten babies in the nursery with postnatal wards which are spacious and airy. An emergency obstetric theatre is also available in addition to four, state of the art operation theatres.

Over the period of the last year there has been a significant growth in patient numbers (more than 1,30,000 per annum) and 3000 major surgeries being conducted.

An active community health programme covering over 9 villages is in place, blood donation camps, school awareness programmes and camps for the disabled are active. The Physical Medicine and rehabilitation department with an orthotic centre is thriving.

The dedication of the foundation of the middle level and senior doctors' quarters and the working women's hostel (for nurses and technicians) at the CMC, Vellore Chittoor campus, took place and

construction of the facility is now in full flow. A patient relatives rest house (Aashraya) supported by the batch of 1991 is also being constructed and the dedication was done in the presence of the batch. The buildings will accommodate clinicians towards the end of this year; and nursing and technical lady staff towards the beginning of the coming year. This first major housing project is located on a hill three hundred feet above surrounding plains of the North campus. Much care has been taken during the process so as to not disturb the biodiversity, flora and the fauna of the surrounding area and the opposite side of the hill which is the home for deer, rabbits and multiple species of birds.

Adjacent to the Northern side, in the CMC, Vellore Chittoor campus, a new facility for the College of Nursing was dedicated on 25th February, 2019. When the proposition for the Chittoor Campus was obtained, the major mandate by the state of Andhra Pradesh was to set up a health care centre and an educational institution of excellence.

Starting a Nursing College in the Chittoor campus will prove to be strategic in further enhancing the growth of good clinical care centers across the nation. The college when it begins to function will generate fifty B.Sc. nurses.

The Rehabilitation Institute

History

The Rehabilitation institute was started in 1966 as the first civilian residential medical rehabilitation facility in India. The founder Dr. Mary Varghese, an Alumnus of CMC, a paraplegic in her twenties developed this service for the disabled in India. Patients with brain and spine injuries resulting in disability are admitted in the Mary Varghese Institute of Rehabilitation for long term therapy and training

- » WHO Collaborating Centre for Development of Rehabilitation Technology, Capacity Building and Disability Prevention, a tribute to the pioneering work done over the last 50 years.

Statistics

Prosthetic and Orthotic Appliances: 40558

Occupational Therapy Treatments: 132690

Physiotherapy Treatments: 147044

Speech Therapy Treatments: 10491

Gait and Video Analysis: 181

New Developments

- » Golden Jubilee floor, Golden Jubilee ward and other facilities were dedicated on 25th January 2019. With the new facility, the bed strength in Rehabilitation Institute has been increased to hundred with expansion of all therapy facilities.
- » The Library was expanded with contributions from the Mary Verghese fund through the Vellore CMC Foundation and was inaugurated by Dr. Honorine Ward, Chair, Vellore CMC Foundation and Dr. Anna Pulimood, Principal. The new floor and other renovations were undertaken as part of the Golden Jubilee celebration of the Rehabilitation Institute which was opened by Dr. Mary Verghese on the 26th November, 1966.

Smiling through exercises in the Rehabilitation Institute



Pastoral Care

The centrality of the chapels in all the campuses of CMC is symbolic to the holistic healing in which CMC believes. Healing of the body and the mind go hand in hand and this is where Pastoral care plays a central role in the healing ministry of CMC. Being a faith based institution, the ethos and ethics of CMC reflects the founder's vision of not building a medical school but the Kingdom of God. One of the unique features of the institution is the Department of Chaplaincy which is always present at the patients' side to offer support and morale, an important aspect in times of hopelessness. Here divisions of religion, creed or caste dissolve as humanity prevails. The patients who walk in here come with physical scars and broken minds. As the physicians strive to heal the body, the mind receives its calm from the pastoral care provided in Christian Medical College.

New Developments

Centenary Teaching Mission

Centenary Teaching Mission lectures were held from 29th June to 1st July 2018 in CMC on the theme "Building God's Kingdom through Healthcare Education". The lectures were delivered by Rev. Prof. John Swinton, a Scottish Theologian, Professor in Practical Theology and Pastoral Care, Honorary Professor of Nursing in the Centre for Advanced Studies in Nursing at Aberdeen University and founder of the University's Centre for Spirituality, Health and Disability. His lectures triggered many questions around the themes 'spirituality', 'healing' and 'health'. His answers came with grace, humility and wisdom. They were biblically based and theologically sound. Many from CMC participated in the meetings, quality circle, workshop and retreat organized during this week end.

Colloquium on Theology of Health and Healing

A Colloquium on Theology of Health and Healing was held between 8th and 9th December 2018. Conversations were based on the themes such as Healing Ministry as a vocation, Context of Healing Ministry, Mission of God &



Giving encouragement and hope with Gods' Word

Pastoral Counseling, Identity, Credibility and Accountability and Patients' view of Healing ministry. Rev. Dr. Nicholas Wood, Director of the Oxford Centre for Christianity and Culture, Oxford was the keynote speaker. Approximately 100 participants were involved in the colloquium. The effects of this colloquium are meant to be long lasting to explore and understand the reasons for our ministry and existence in healing.

Awards and Honours

Reverend Ananthi has been appointed as a Board Member of the Senate of Serampore College Council for a period of five years with effect from 6th December 2018

Renovations

Tombs of our founder Dr. Ida S. Scudder and her mother and three other family members were renovated on 30th November 2018.



Departments in Focus

**Be, Thou my breast –plate, my sword for the fight
Be thou my armour, and be Thou my might;
Thou my soul's shelter, and Thou my high tower,
Raise Thou me heavenward, O Power of my Power.**

Anatomy

The centenary year for the Department of Anatomy was celebrated in 2018, also marking the completion of 100 years of medical education. It was a year filled with multiple activities, innovations and significant milestones.

- » 'Workshop on special stains' was held on 25th January, 2018, attended by 36 delegates.
- 'Workshop on plastination and luminal casting' was held on 9th June, 2018 which was attended by 60 delegates from across the country.

History

The Department of Anatomy was established in the year 1918 and the first batch of MBBS students were admitted in the year 1941 under the headship of Dr. Liza Chacko.

The following Professors headed the department:

Dr. Ida S. Scudder	1918-1924
Dr. Carol Jameson	1924
Dr. M. Rottschaefer	1924-1927
Dr. Pauline Jeffrey	1927-1929
Other HOD's during the interim included Dr. M.D Graham, Dr. Patil and Dr. K.I Vytilingam	
Dr. Liza Chacko	1942-1957
Dr. D.L. Graham	1957-1961
Dr. Sarah J. Souri	1961- 1966
Dr. Mary Jacob	1966-1993
Dr. Grace Chandi	1993- 1999
Dr. Rachel Koshi	1999-2007
Dr. Sunil Jonathan Holla	2007-2011
Dr. Bina Isaac	2011-2015
Dr. J. Suganthy	2015 –Till date

New educational innovations:

- » Virtual microscopy
- » Blended learning method, to provide an online classroom experience
- » Ultra sound anatomy training
- » Procedural skills training



- » The department faculty successfully brought out the 'Handbook of Histological Techniques'.
- » An alumni reunion for all past anatomy faculty was organized on 8th August, 2018 as a part of the centenary celebration at the department.
- » 'CORPORA 2018', an exhibition cum teaching program for higher secondary school children, was organized from 9th to 12th October, 2018 which was attended by more than 5000 school students from Vellore district. An inter-collegiate undergraduate quiz in clinical anatomy was conducted on 3rd November, 2018 with a total of 100 teams from various colleges taking part in it.
- » The department also hosted, Prof. Ian P. Johnson (Interim Director of Biomedical Education, Director of Anatomy, Macquarie University, Sydney) for a talk on 'Constructive alignment and the evaluation of innovation in teaching', on 19th February, 2019.

In order to meet the growing demands of surgical skills training requirements, the department has recently acquired a deep freezer for storing fresh frozen cadavers and is venturing into the arena of skills training.

The year 2018 was also a year of academic brilliance exhibited by the faculty and students of our department. Dr. Suganthy Rabi received the prestigious Dr. P.C. Bansal Memorial Gold Medal, for the best paper in Journal of Anatomical Society of India at the National Conference of Anatomical Society of India, Rishikesh in November, 2018.

Dermatology

History

The Department of Dermatology, Venereology and Leprosy started in 1949 under the headship of Dr. Herbert Gass.

Professors who headed the department:

Dr. Herbert Gass	1949-1964
Dr. A.K Klokke	1964-1966
Dr. C. Bhaktaviziam	1966-1976
Dr. Rachel Mathai	1976-1989
Dr. Mary Jacob	1989-2002
Dr. Renu George	2002-2005, 2007-2008, 2012-2016
Dr. Susanne Pulimood	2005-2007, 2008-2012, 2017–to date

Special mention for their enormous contribution

Dr. Soshamma George
Dr. Elizabeth Pushpa Eapen

Over the year
1,17,184 outpatients
765 inpatients
28,747 procedures

Special clinics

- » Cosmetic Dermatology, Vitiligo and Pigmentary clinic
- » Cutaneous Vascular Malformation
- » General Dermatology
- » Epidermolysis Bullosa clinic
- » Genodermatoses / connective tissue disorders
- » Hansen's disease clinic
- » Paediatric Dermatology
- » Pemphigus and Bullous disease
- » Psoriasis clinic
- » Psoriatic Arthritis
- » Retroviral clinic (ID)
- » Tropical Dermatology Infectious disease
- » Hematology-Dermatology clinic
- » Outreach clinic in Chittoor campus and RUHSA campus

Services offered by the department



Lasers

1. Long pulsed Nd Yag laser used for (i) removal of unwanted hair in the body (ii) photorejuvenation
2. CO2 fractional laser used for -acne scar resurfacing, freckles, viral wart, striae, dermatosis papulosa nigra, epidermal naevi
3. Q switched laser therapy – used for treating the following conditions: Café au lait macule, lentigenes, freckles, solar lentigo, nevus, spilus, pigmented seborrhoeic keratosis, Dermatitis papulosa nigra, Nevus of Ota, blue nevus, Hori's nevus, Tattoos, Post inflammatory hyperpigmentation, periorbital and perioral pigmented, moles, acquired melanocytic nevi, becker's naevi, melasma,

Skin rejuvenation, Vascular lesions like cherry angiomas, spider nevi and telangiectasia.

Phototherapy –Whole body, hand and foot UVA and UVB, targeted phototherapy –for psoriasis, GVHD and alopecia areata

Hair transplantation – Follicular unit extraction and transplantation is also done in the department.

Vitiligo surgeries (i) Split thickening graft (ii) Suction blister grafting (3) Melanocyte keratinocyte transplant procedure

A Patient Story

Mrs K. is a daily wage labourer from a village near Vellore. She and her husband work to provide for their two school going children. They have a monthly income of less than 10,000 rupees and their income varies as per availability of jobs. She presented to our emergency department with one week history of fever with rash. She had taken medications for a month for a probable inflammatory arthritis. After evaluation by the doctors from Dermatology, a diagnosis of probable DRESS (Drug Rash with Eosinophilia and Systemic Symptoms) was made.

She had high grade fever with deranged liver functions at initial evaluation. She was advised admission for further management as levels of the medications will persist in the blood for a prolonged duration due to which there was a high risk of systemic complaints.

The patient and husband expressed their inability to spend more than five thousand rupees on her hospital expenses and requested us to help them as the whole family depended on her both emotionally and financially. It was decided to admit the patient with an advance of Rs.5000 and the rest to be requested from hospital funds as it was an acute emergency which could be reversed if treated at the right time. She was treated with which her symptoms improved and she was discharged well.

Nail surgeries- (i) Nail avulsion (ii) pincer nail surgery (iii) nail biopsy

Videodermoscope facility is also available for trichoscopy and dermoscopy and for diagnosis of various skin and hair conditions.

Intralesional steroids and cryotherapy for treatment of Keloids

Diphencyprone, intralesional injections for treatment of Alopecia areata,

Chemical peels, cryotherapy, radiosurgery, iontophoresis, skin biopsies and other minor procedures are done.

Education

Undergraduates – MBBS students are posted in the department in their first and final year.

Postgraduates courses in the Department of DVL

COURSE		Duration	No of Seats
Diploma in Dermatology	1979 – 2018	2 years	
Master in Dermatology	1983 -2010	3 years	2
Master in Dermatology (increase in seats)	2011- 2018	3 years	3
Master in Dermatology (increase in seats)	2019	3 years	4

Allied Health Science - Diploma in Dermatology Laboratory Technology course	2013
Postdoctoral fellowship programme	Paediatric Dermatology
	Advanced Medical Dermatology
	Dermosurgery

Faculty are also involved in training of:

- » Postgraduates from other medical colleges in Tamilnadu for dermatopathology
- » Candidates selected by Indian Association of Dermatologist, Venereologist and Leprologist for Dermatopathology training in Dept. of DVL, CMC.
- » Global Health and Humanitarian Medicine course organized by Infectious
- » Disease training and Research Centre, CMCH, Vellore
- » Fellowship in General Infectious disease organized by Infectious disease Research Centre.
- » International Short course in Clinical Tropical Medicine organized by Infectious disease Training and Research Centre, CMC, Vellore.
- » PGDFM for MBBS graduates organized by

Medical Education Department

- » PG CME on Laboratory Methods in Medical Mycology organized by department of Microbiology.

Future directions:

The following areas of service will need to be developed:

- » Geriatric Dermatology
- » Endocrine Dermatology
- » A separate Paediatric Dermatology Unit

- » Identify centers to collaborate with studying genetics of common diseases so as to provide effective genetic counseling services
- » Fellowships in Advanced Medical Dermatology, Dermatotomy and Dermatopathology.
- » Start a separate Paediatric Dermatology Unit
- » Identify centers to collaborate with studying genetics of common diseases so as to provide effective genetic counseling services

Microbiology

Serving as a NABL accredited laboratory from November 2014, the Microbiology department has been able to provide standardized, courteous, consultancy services in the fields of bacteriology, mycobacteriology, mycology and immune-serology.

This Department serves as the:

- » WHO reference laboratory for Vaccine-Preventable Invasive Bacterial Disease (IBD) surveillance for *Streptococcus pneumoniae*, *Neisseria meningitidis*, *Haemophilus influenzae* in South East Asia.
- » WHO national reference centre for surveillance of *Bordetella pertussis*, *Corynebacterium diphtheriae*, and typhoidal *Salmonella*.
- » ICMR nodal co-ordinating centre for surveillance of antimicrobial resistance in diarrheagenic *Escherichia coli*, *Shigella spp*, *Vibrio cholerae*, *Campylobacter spp*, *Clostridium difficile*, as well for non-fermenting gram negative bacilli like *Pseudomonas spp* and *Acinetobacter spp*.
- » Culture and DST laboratory for RNTCP performing culture, drugs susceptibility and cartridge based nucleic acid amplification tests (Xpert MTB/Rif Assay) for 6 districts in the State of Tamil Nadu.

Achievements and new techniques

1. WHO National reference centre for *Salmonella Typhi*



2. Long-read genome sequencing of bacterial pathogens using MinION Oxford nanopore sequencing technology
3. Novel approach to develop a hybrid genome using short accurate reads and long reads with structural arrangements from IonTorrent and MinION
4. Quantification of Group B *Streptococcus* from colonised mother using real-time quantitative PCR
5. EQAS provider for multiple tertiary care centres across India recommended by ICMR
6. Establishment of baseline molecular data on ESKAPE pathogens using MLST and whole genome based sequencing approaches
7. Whole genome based SNP phylogeny for identification of genetic relatedness among the clinical pathogens including *P. aeruginosa*, *A. baumannii*, *K. pneumoniae*, *E. coli*, *Salmonella spp.*, *Shigella spp.*, and *S. aureus*.

Paediatric Surgery

History

The Department of Paediatric Surgery was started in 1978 in CMC Vellore.

Milestones

1978 – formation of the department

1980 – starting of MCh Paediatric Surgery training course

2009 – formation of two units in the dept of Paediatric Surgery

Head of the Departments

1. Dr. K.E. Mammen
2. Dr. Sudipta Sen
3. Dr. Ninan Zachariah
4. Dr. Jacob Chacko
5. Dr. Sampath Karl
6. Dr. Reju Joseph Thomas
7. Dr. John Mathai

When one is asked to think of a ward filled with operated children – it would be easy to mentally conjure an image of a line of beds with unhappy faces, a few tears caused by hanging tubes and catheters. Thankfully our paediatric surgical ward is far from that – **a place where about 40 pre and post operative children are happy and safe.** It's common to see children colouring pictures in spite of intravenous lines, zooming around on tricycles with their urinary catheters hooked to the neckline of their gowns or amused kids watching the nursing students playing a game of balloon volleyball across their beds.

With over 3000 surgeries and procedures a year, the unit is constantly abuzz with activity. Apart from the regular traffic of shorter stay operations - the heart of the ward houses five burns cubicles where sicker children with extensive burns are admitted. We teach the family to care for them and nourish them through a long series of painful dressings and surgeries. In spite of the difficult circumstances there has been a pleasant breakthrough in the recent years with the introduction of **a specialized burns care nurse and dedicated occupational therapist.** This team has changed the face of burns care for our children on so

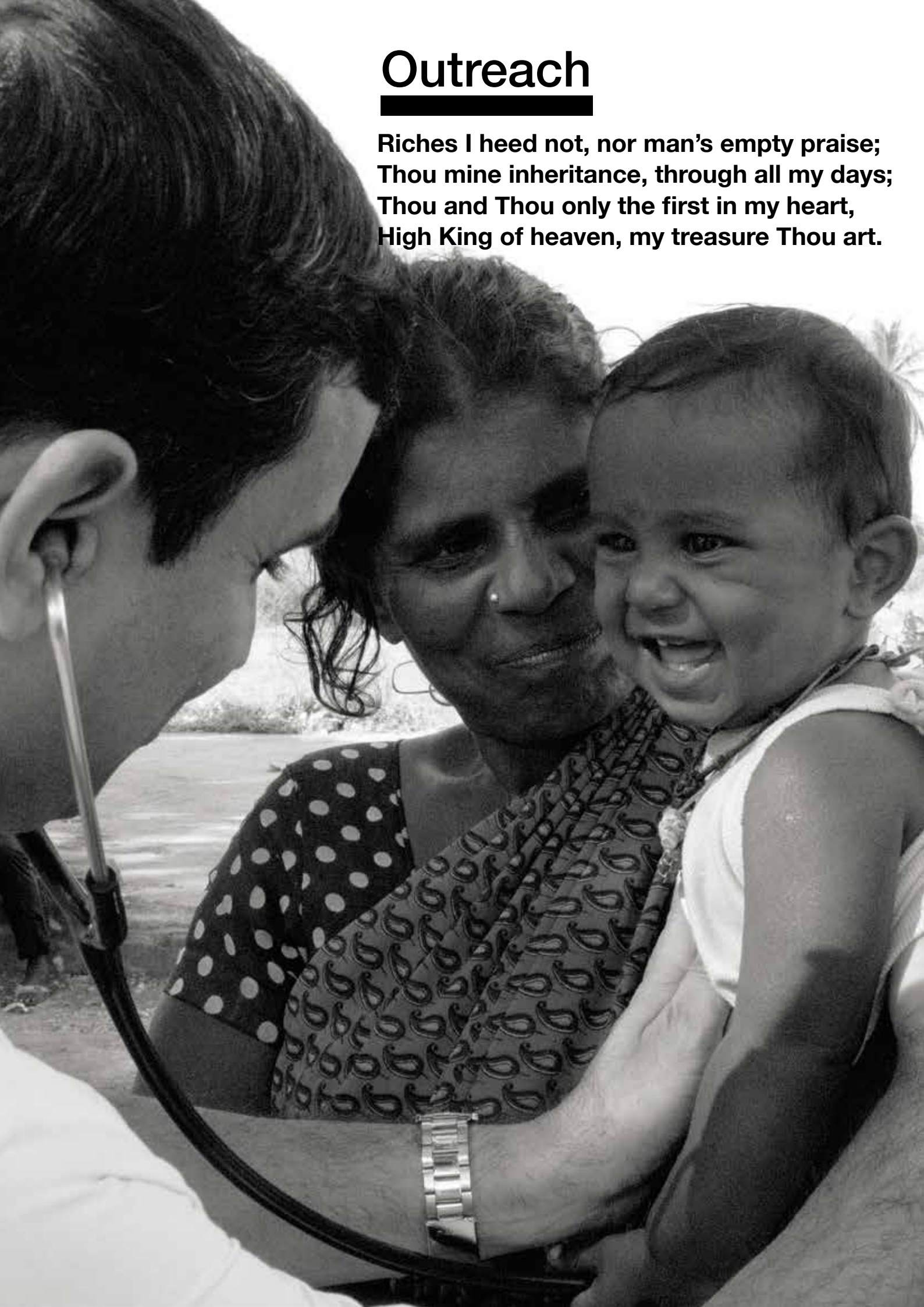
many levels. Firstly – unlike the doctors who used to race through the dressings to get to theater or the out patient – they spend more time, create a rapport and gain confidence. Being concerned about long term contractures as well as the acute wound mean they gain the confidence of both the children and the parents. It's now common to have the follow up children or parents walking through our outpatients looking for our burns care AKKA or ANNA and completely ignoring the consultant who was their primary physician! Our burns kids are often called to join us for the Christmas celebrations in the ward and are happy to dance and join the festivities just as if they were a part of the team. **Specialized nursing** for stoma care, clean intermittent catheterisation for neurogenic bladders and bowel as well as acute pain services have similar success stories and translated to a better experience for our surgical kids. This is something we are excited about and hope to keep working at improving.

As a department we are proud of our **complex reconstructive procedures for urogenital anomalies.** The 'ileocaecal doughnut augmentation' is an operation that we are particularly proud of, that uses a portion of the intestine with the appendix to enlarge the bladder in children born with bladders that are virtually non-existent and allows for a normal life. We are most proud of some our children who have undergone this procedure and have gone on to pursue their medical studies – determined to offer similar care to children just like them.

Though exciting work and at times our operations are unreal – there are major challenges in dealing with paediatric care. Specialized intensive care, anaesthesia and surgery are often expensive and difficult to afford, in a country where having the next child is cheaper than spending resources on the sick one. Major tumour, liver transplants and trauma can often leave a family devastated and crippled financially by prolonged stays and repeated outpatient visits. **Cost effective care** is an area we are constantly aware of and almost militant in our efforts to save the extra rupee. We are extremely proud of an in house innovation/ invention that saves patients thousands of rupees in operation and anesthesia costs for removal of stents placed in the urinary bladder. We will strive to continue to think along these lines as this is a priority for medical care in our nation and for training of our postgraduates in the spirit of CMC and Aunt Ida.

Outreach

**Riches I heed not, nor man's empty praise;
Thou mine inheritance, through all my days;
Thou and Thou only the first in my heart,
High King of heaven, my treasure Thou art.**



Community Health and Development (CHAD)

In the year 1955, CMC build a rural health centre on the Bagayam campus to expose medical students to primary health care. These outreach services were under the community health department which was designed to provide primary care to the nearby rural, urban and tribal communities. It also provided a training ground for medical, nursing and paramedical students.

The outreach activities of CHAD includes providing primary and secondary health care to Kaniyambadi Block, villages of Jawadhi hills , urban slums of Vellore town in Kansalpet, Sreenivasanagar, Saidapet and Kagithapattarai.

Statistics

Bed	140
Inpatient	11,160
Outpatient	1,04,455
Births	4,103
Total number of Mobile Clinics	578
Total number of Camps	43
Total number of Surgeries	1254
Total number of Children Immunized	8992
Total number of Nursery Admissions	1670
Total Number of Workshops	5

There are 13 OPD's running in CHAD of these Diabetic, Eye and Antenatal Attended ANC have the maximum number of patients. (1824, 1594 and 24383 respectively)

Special initiatives

The CHAD Home Based Palliative Care programme was started in July of 2018 by the Department of Community Health, Christian Medical College, Vellore, in its service areas, the Kaniyambadi block and to a smaller extent in Jawadhi Hills , to address the growing needs of patients with life limiting illnesses.

The core team includes three doctors, two nurses and a field worker who have been trained in the Essentials of Palliative care. The palliative care

programme has been integrated into the pre-existing health service model. At inception, the programme began through training/ sensitization sessions for the health workers and the public health nurses on the philosophy of palliative care and identification of patients who need them in the community. The doctors manage the outpatient and inpatient departments of the secondary care hospital run by the department and the public health nurses working in the tribal area of Jawadhi hills. A total of 142 patients have been referred to the Palliative care team, with most of these being for different cancers. Some of the non-cancer illnesses include cerebrovascular accidents, dementia etc. OPD based care is provided for all those who are still ambulatory and In-patient care is provided in case of reversible acute conditions that might improve quality of life.

The primary objective of the programme is to provide relief from physical symptoms, emotional and spiritual care followed by bereavement care for the families after the patient passes away through the home based care model. This includes end of life care such as symptom relief for pain, breathlessness, stridor, symptoms associated with cachexia and debility, back care for those who are bed bound and bed sore care for those who already have them. Another important focus has been to empower the caregiver in patient care and to provide guidance as to how to deal with various expected disease specific adverse events.

All the patients currently requiring palliative care are visited on a biweekly basis and sometimes weekly if there are new onset symptoms any earlier. Team meetings are held every week. A total of 44 patients have been provided with home based care by the team through 106 home visits to date. Of the total number of patients who had been visited and cared for at home 20 have passed away and 10 of them have been provided with bereavement care. The experiences of the team in the homes of the dying have been enriching during the efforts in facilitating a peaceful death.

The Jawadhi Hills project

The Jawadhi hills tribals project, initiated in 1980 for a population of 30,000, aims to improve maternal and child health through regular clinic-based antenatal care, growth monitoring of children, nutrition education and ambulance services. In 2014, a permanent health care facility, the C.K Job Tribal Health and Development Centre, was inaugurated. An important facet of the work in Jawadhi Hills is the development of a scholarship scheme aimed at providing Nursing and AHS training for tribal youth. There are two day-care centres for the elderly, functioning in two villages in Kaniambadi rural block, which serve 38 beneficiaries. Basic medical services, occupational therapy, recreation, health education, nutritional support and counselling are offered. Reproductive health and family life education in the adolescent health programme for girls has been underway for school going children. The demand from schools and colleges for conducting such programmes on an ongoing basis has been increasing in both rural and urban areas, and CMC has begun working regularly with

organisations like Students Partnership World-wide India (SPW) to broaden the outreach.

Total number of Mobile Clinics in Jawadhi	474
Total number of clinics in Jawadhi – Veerapanoor	310

The Model Village Project is designed to make a comprehensive intervention in (up to) four tribal villages in Jawadhi.

Objectives of Model Village

- » Provide access to health care, clean water, means for personal hygiene and sanitation;
- » Prevent distress migration from rural to urban areas that undermines the potential for development in the home villages;
- » Contribute towards social empowerment by engaging all sectors of the community in the task of village development;
- » Make the model village(s) a “hub” that could inspire positive development in other Jawadhi villages and attract resources for this development.

The synchronized presentation of programs such as these has been shown to create lasting change and have significant implications for communities of people whose lives are interrelated.

In the footsteps of Aunt Ida : Roadside medical help in Jawadhi



Model Village #1 – Koiloor Village

The Koiloor Village project began in 2016, with a plan to construct 95 toilets. The main focus of this project was to provide the families with toilets and clean water through the SkyHydrant. Along with the Don Bosco Tribal Development Society, CHAD worked towards providing general water supply (non-drinking), schools, a balwadi (preschool), evening study program, program for the elderly/disabled, access to quality health care, good nutrition, immunizations, good pregnancy outcomes, less alcoholism, year-round employment (agriculture, animal-based livelihood programmes, kitchen garden and candle making), recreational facilities for youth, access to roads/transportation/commercial centres and a system for garbage disposal.

Model Village #2- Vallithathankottai Village

The Vallithathankottai village, which was facing major water shortage, was in desperate need for a change. They had no school, Balwadi and no proper sanitation facilities. The pattern followed at Koiloor Village will be implemented here and the discussions had begun in July 2017 to provide the same facilities to the Vallithathankottai village as well.

Rural Unit for Health and Social Affairs (RUHSA)

Located 25 kilometres north-east of Vellore, in the K.V.Kuppam Block, RUHSA focuses on developing the health care scenario and other social developments focussing on social empowerment and economic activities. Set up in 1977, RUHSA programmes are designed to work together to advance the health, education, and socio-economic status of the entire block. Besides serving the primary healthcare needs of the 130,000 population across 39 panchayats, it

provides inpatient care, mobile health services and vocational training programmes to alleviate poverty through encouraging income-generating projects and improved agricultural practices. In an entrepreneurial spirit, small RUHSA schemes, partnerships and collaborations have provided social service support, job training, and youth development, parenting services, small business loans, childcare and almost any other conceivable enterprise that might contribute to more stable lives for the rural folk.

Statistics:

Bed	68
Inpatient	3,365
Outpatient	90,631
Births	1,143
Total Number of Outreach Clinics	587
Total Number of Mobile Clinic	587
Total Number of House Visits	2,153
Total Number of Camps	47
Total Number of Surgeries	520
Total other OPD's	43,636
Total Number of X-rays done	975
Total number of Children Immunized	4,933
Total Nursery Admissions	269
Total Number of Workshops	137
Total Number of Community Development Programmes	19

New Initiatives of RUHSA

De-centralized Substance Abuse Clinics

These special outreach clinics are aimed to help patients to overcome substance abuse behaviour by providing treatment and support to both the patient and his family members through the Motivation Enhancement Therapy. The team consists of a doctor, social worker, rural community officer and community volunteers.

Child Development Initiative

In collaboration with the department of Development Paediatrics this provides early diagnosis, intervention, rehabilitation and school integration of children aged 0-6 years with Neuro Developmental Disorders (NDD) through a community based approach. The caregivers within the family will be trained as 'Therapists'



A Day-care centre for the elderly and children, an innovative project by RUHSA

with support of volunteers from the community.

Empowering Adolescent through Education and Counseling

Adolescents are guided to build skills to manage psycho social issues with peers, within family and with elders. The program has been extended to all the government schools in KV Kuppam Block for both boys and girls and will cover issues relating to reproductive health, nutrition, addiction to gadgets, substance abuse, relationship issues and physical activities.

Career Guidance Program and Center

This center in RUHSA campus provides counseling, resource materials and internet facilities where students can get assistance in applying for courses and jobs. The effort is to reach as many young people as possible through special Career guidance programs for students in 9th to 12th grades.

Comprehensive care for the Elders

The elderly care centres are currently run in 6 villages only. A comprehensive program addressing health and social needs of all elders

in KV Kuppam block is being planned with the community support. It includes comprehensive geriatric assessment, holistic health services through village based clinics, recreation centers, elderly clubs and community sensitization.

Expanding vocational and income generation activities

RUHSA is expanding the economic development activities through formal and non-formal skills training under the Community College for increasing income and employability. Computer literacy classes, tailoring, SHG training, entrepreneur skills are some of the non-formal training. Hardware repair and Early Childhood education are formal courses being introduced in the year 2019.

Expansion of Ophthalmic Services

RUHSA with the help of the outreach program of the Ophthalmology department CMC is expanding the ophthalmic services to a full-fledged eye clinic with an optical dispensary and a school vision screening program. This will benefit patients from an approximate catchment area of 5 lakh population

Low Cost Effective Care Unit and Shalom Family Medicine Centre

Established in the year 1983 the LCECU is a significant aspect of CMC's outreach programme which serves the needs of the urban poor in the town of Vellore. It caters to the needs of the local urban community living below the poverty line.

Low Cost Effective Care Unit

Bed	48
Inpatient	2,079
Outpatient	70,125
Births	168

Total number of Outreach Clinics	254
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Shalom Family Medicine Centre

Outpatients	38,579
Laboratory tests	38,724

From 2018, the work in the slums of Vellore expanded. With the help of the community, a weekly clinic has started. In addition to this the community health workers and the outreach nurse have been visiting and interacting with the community with a focus on empowering them and improving the management of chronic diseases. The training of volunteers from the community has also moved forward last year with new volunteers joining the team.

At the Ida S Scudder Oration in 2018, Dr Robert Horton Fish announced a grant of 50,000 US Dollars for LCECU in honour of his aunt Dr. Ida B Scudder for which the unit is extremely grateful.

Part of the money will be used to build another floor for the unit, which will house a centre for Community Oriented Primary Care, to subsidize the cost of drugs for poor patients who get treatment in Vellore, to expand the outreach to one more area and for activities to empower

A prayer hall turned into a free clinic for town dwellers by LCECU



the community for holistic health. LCECU has initiated steps for entry level accreditation for NABH and a quality management team is in place now with a plan to apply for the accreditation in the next few months. Shalom Family Medicine Centre will be included in full accreditation along with the main hospital.

An audiology intern, with the support of Department of Audiology and ENT unit 2 has been made available to work in LCECU and Shalom Family Medicine Centre. The intern will also screen adults and children in the community, along with the CONCH Nurses. In addition to this a mobile app, developed by Dr.Venkatesan for using field notes (a tool to supervise and give feedback to the trainees immediately) has proved to be an effective method for residents to improve their training.

College of Nursing Community Health (CONCH)

CMC's , College of Nursing maintains an important and highly effective Community Health program referred to as CONCH that was established in 1987 and is a vibrant primary health care program managed by nurses. Home visits form the basis of this outreach program, focusing on a population of almost 65,000 living in 22 villages and an additional 23,000 persons living on the urban periphery of Vellore. CONCH has a strong health education component and organizes health camps, street plays, films and exhibitions in order to generate health awareness among people. CONCH also works with the District Health Administration and nearby NGOs to implement government health projects. Like all the CMC Community Health programs, CONCH trains and empowers local volunteers to be their interface in the villages they serve. Their programs are more family-centered and include frequent clinics for women with high risk pregnancies, geriatric clinics, dental clinics, eye camps, health camps and hearing aid camps.

Home visits are made on a regular schedule and carried out by the nursing staff and students.

Home Visits	
CONCH	42363
URBAN	35449

Health Education and Action projects - 1640

Programme	No. of Clinics/ Programme	Patients attended
General Health Camp	8	2051
School Health Camp	3	318
World AIDS Day Programme	10	115
ORS and Breast Feeding Programme	22	257
Road Safety Week Programme	1	192
World Hypertension Day Programme	5	66
World Diabetes Day Programme	10	241
World Environment Day	1	10
School Health Programme	97	4434
World Health Day	2	86
World Mental Health Day	4	146
World Nutrition Week	9	302
World Breast Cancer Awareness Programme	11	396
World Tuberculosis Day	12	555
Safe Motherhood Day	1	9
World Leprosy Day	27	5294
World Women's Day	13	191
World Kidney Day	12	326
Deworming Day	10	240
World Malaria Day	3	30



The CONCH Community Health Nursing Centre at Puttuthakku

World Hand Hygiene Day	5	176
International day of persons with disability	3	22

Special initiatives

a. ENT Clinic

Monthly ENT clinics were initiated with ENT II unit of CMC, Vellore. The clinics were started from July 2018. The clinic is conducted on Tuesdays and Thursdays of every month. Screening is done to identify hearing loss and other ear abnormalities by an audiologist. Referrals are made to ENT OPD, CMC, and the patients are followed up by Community Health Nurses.

b. Diabetic Retinopathy Clinic:

Monthly DR clinics are initiated with the Community Outreach Services of Ophthalmology Department in the Urban areas served by Community Health Nursing Department from July 2018 and these clinics are conducted on Thursday of every month in the Urban Health Centre of Ramanayakanpalayam. Screening is done for patients with diabetes. Those who are in need of further treatment are referred to Schell

Eye hospital.

c. New Geriatric Club Inauguration at Perumugai Colony

Based on the felt need and the request from the villagers, a new geriatric club was inaugurated in Kilminnel village on 01.10.18 by Mr. Velu, Naatanmai of Kilminnel village in the presence of Mrs. Rejeswari Siva, HOD, Dr. Vathsala Sadan, Professor, Mrs. Greeda Alexander, Professor, and junior faculty of CHND, CMC, Vellore. Blankets were distributed for 25 elderly people which were sponsored by Mr. Anand (proprietor of APL services), around 60 people attended the inauguration. A health camp was organized for the elderly in which around 51 people were screened.

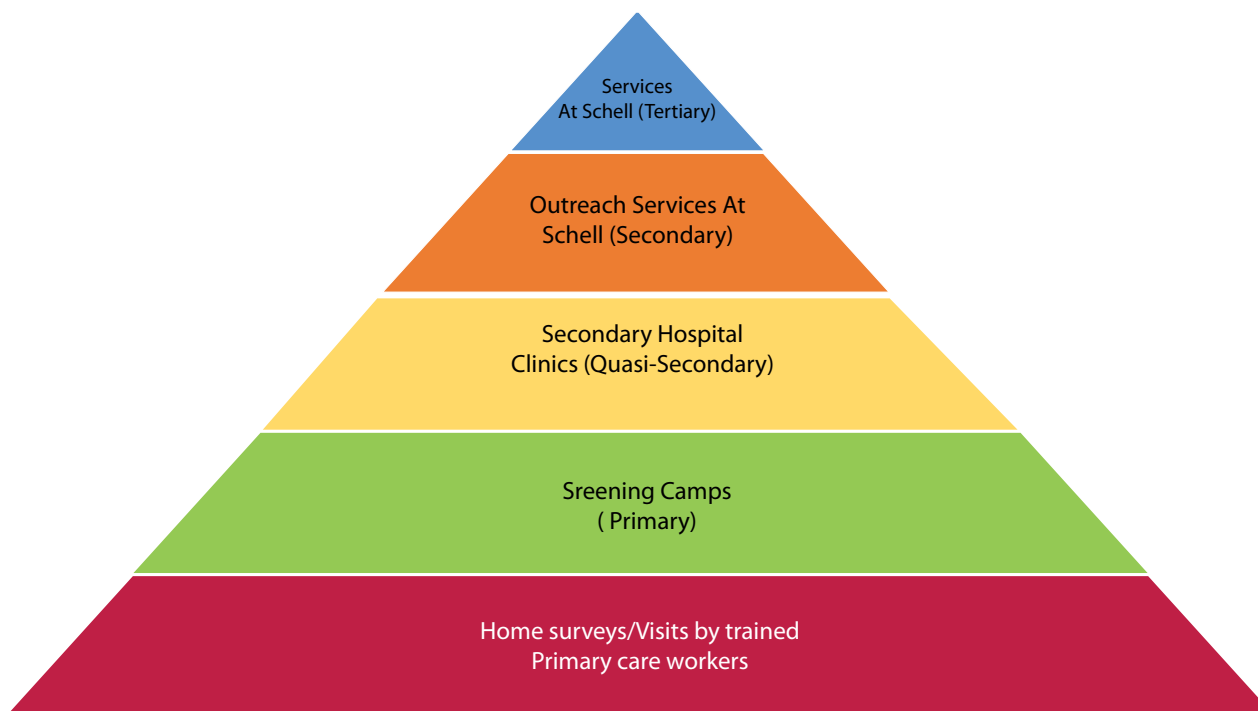
d. New areas included for service

The CONCH services were extended to one more new area, Gambarajapuram Colony.

Total population	597
Number of families	124

e. School and Community Screening for Leprosy

As a part of National Leprosy Eradication Programme, Leprosy care detection campaigns was organized by the Government (PHC, and



A pyramid of caring by the Community Ophthalmology Department

Urban Primary Health Centres) along with Community Health Nursing Department for the school children and assigned community areas. Leprosy screening was done for school children and adults. Suspected cases were referred to PHC and UPHC. Health education on cause, spread, prevention and rehabilitation on leprosy was given to all those who were screened.

Ophthalmology outreach services

Dr. Victor Rambo who joined the Faculty in 1947 realized that there were thousands of curable blind in rural India and the only way of reaching them was through a Mobile Eye Hospital. He organized the first mobile eye camp in 1948 and since then eye camps have been functioning as a regular service of this Hospital. To date more than 50,000 free eye camps have been conducted.

We now have a regulated Outreach Team for outreach camps and clinics a regulated office team to help the people who have been referred to Schell from these peripheral outreach services. Dr. Padma Paul has been heading outreach services unit from 4th July 2017 with able assistance from Dr Anika Alexander.

As per statistics in 2018, we conducted 280 camps and 22,415 people have been screened in these outreach camps; 3989 patients have undergone cataract surgeries, about 9579 have been identified with refractive error, 2038 had been identified with Presbyopia.

Cataract

We had 12,611 patients who attended our Sponsor camps, of which 4634 patients were advised for Cataract Surgery. 3994 patients had their Surgeries done through our Outreach Service.

School Screening Program

During the year 2018 we have screened 4301 school children from 14 schools where 363 children were found to have refractive error. As always we struggle with the challenge of poor response to referrals from this and are working to improve upon this in the coming year.

Diabetic Retinopathy

This year 2018, we had screened 198 patients for Diabetic Retinopathy screening in Sponsor Camps. 173 patients were diagnosed with No DR, 7 patients with Mild NPDR, 11 Moderate NPDR, 5 Severe NPDR, 2 patients with Proliferative Diabetic Retinopathy



RANKING

- 1 All India Institute of Medical Sciences
- 2 Post Graduate Institute of Medical Education and Research
- 3 Christian Medical College

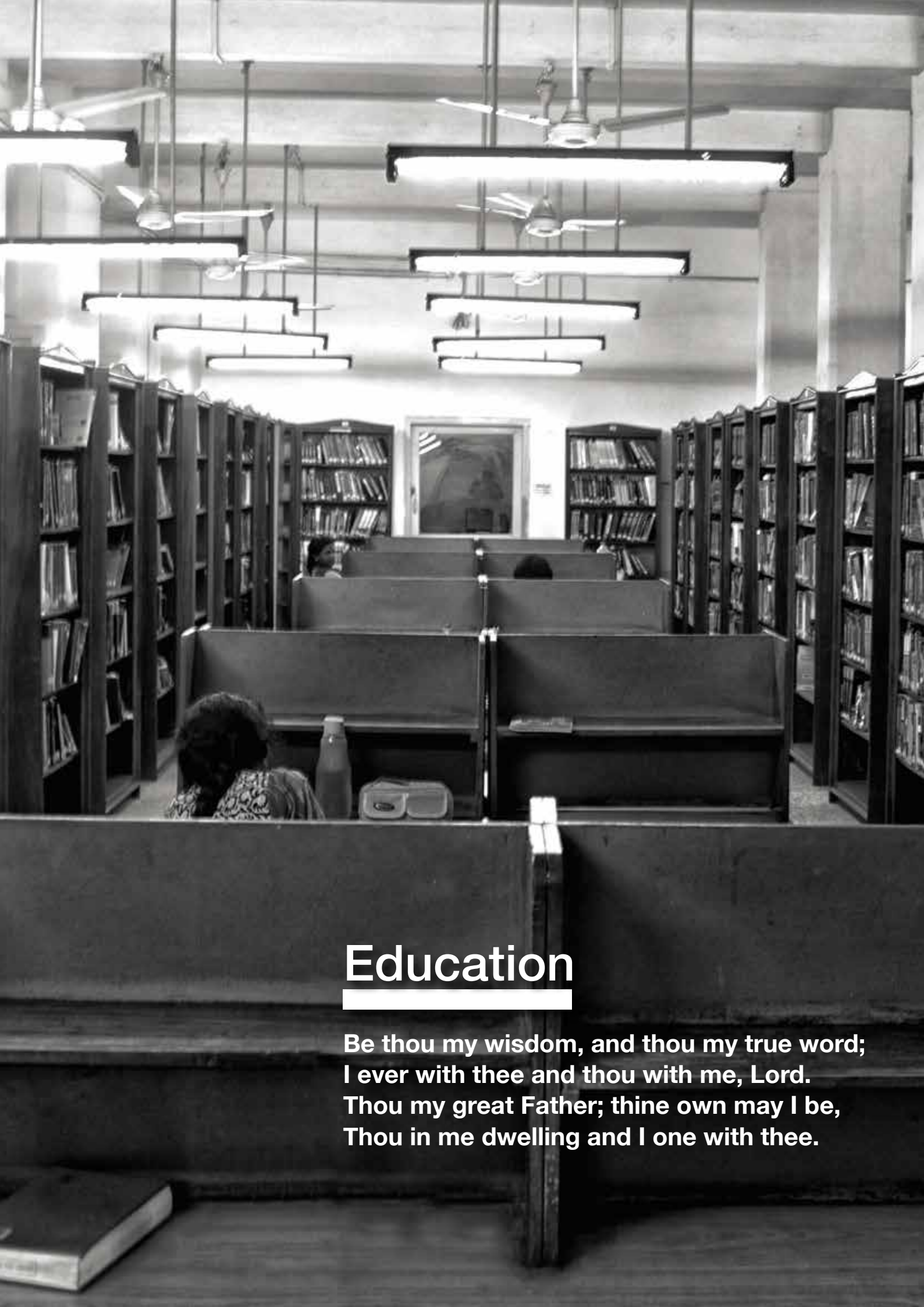
INDIA TODAY APP MAGAZINE

TECH BEST COLLEGES 2019 SPORTS ...

TOP 5 PRIVATE COLLEGES WITH THE LOWEST TUITION FEE >>>

	COLLEGE	TUITION FEE FOR ENTIRE COURSE (₹)
1	CHRISTIAN MEDICAL COLLEGE & HOSPITAL, <i>Vellore</i>	75,000
2	MAHATMA GANDHI INSTITUTE OF MEDICAL SCIENCES, <i>Wardha</i>	3,19,050
3	ARMY COLLEGE OF MEDICAL SCIENCES <i>New Delhi</i>	16,20,000
4	SHRI GURU RAM RAI INSTITUTE OF MEDICAL & HEALTH SCIENCES, <i>Dehradun</i>	18,00,000
5	ST JOHN'S MEDICAL COLLEGE, <i>Bengaluru</i>	20,25,000

Private Medical Colleges With The Lowest Tuition Fee



Education

Be thou my wisdom, and thou my true word;
I ever with thee and thou with me, Lord.
Thou my great Father; thine own may I be,
Thou in me dwelling and I one with thee.

The Centenary Year of Medical Education

It was on August 12, 1918 that the Union Missionary School for Women was inaugurated with Dr Ida Sophia Scudder as Principal. Classes commenced in two rented rooms with sixteen young women. Ida Scudder was short on almost all the requirements- buildings, funds, trained faculty, and equipment- except one: faith, in an all-providing God. It was with this history and legacy of faith, heritage, stewardship and thanksgiving that Christian Medical College marked the Centenary of Medical Education during 2018-19. Events and activities were planned in a year-long celebration, involving the CMC community, alumni as well as citizens of Vellore

The Centenary Year of Medical Education began with the Centenary Thanksgiving Service held on January 14, 2018 in Scudder Auditorium. 'Home of Transformation', the Centenary Song composed and set to music by Dr. Solomon Sathishkumar and Mrs. Asha Solomon, beautifully captured the essence of our calling:

*Seeking to be a witness for Christ,
Nurturing young lives for the past hundred years,
Making a difference to our nation and more,
Bringing healing and wholeness to the unreached
and poor,
To all who would enter, you're a home,
A home of transformation.*

The Centenary Run was held on January 26, 2018 from the Hospital Campus to the Oval Grounds, Bagayam Campus. The event was open to citizens of Vellore city, and it attracted enthusiastic participation with over 800 registrations.

To commemorate the Centenary of Medical Education, the Institution invited eminent personalities from different walks of life under the Luminary Lecture Series. The aim of this series of Lectures was to listen and imbibe from luminaries, who by their work and life, have empowered and transformed societies, have contributed to our national life or are role models for the youth. CMC was privileged to host Shri Bezwada Wilson, Mr. Romulus Whitaker and Ms. Janaki Lenin, Mr. P.

Sainath and Mr. Gopalkrishna Gandhi through four Luminary Lectures. The Luminary Lecture Series has been a highlight of the Centenary Year.

May 4, 2018 was indeed a historic day for Christian Medical College, Vellore. The Institution was honoured to have Shri Ram Nath Kovind, the Hon'ble President of India inaugurate the Centenary Year of Medical Education. Adding to the historicity of the occasion were the presence of Shrimati Savita Kovind, the First Lady, Shri Banwarilal Purohit, the Hon'ble Governor of Tamil Nadu, Thiru KC Veeramani, Hon'ble Minister for Commercial Taxes, Government of Tamil Nadu (Minister-in-Waiting) and Prof. PJ Kurian, the Hon'ble Deputy Chairman of the Rajya Sabha. During the Inaugural Function, a book, 'Healing for the Nations' was also released.

Centenary Teaching mission lectures were held in June 2018 in CMC on the theme 'Building God's Kingdom through Healthcare Education'. The lectures were delivered by Rev. Prof. John Swinton, a Scottish Theologian, Professor in Practical Theology and Pastoral Care, Aberdeen University. A Colloquium on Theology of Health and Healing was held in December 2018.

The Centenary Project Office compiled and edited a special book for the Alumni Reunion titled 'Hundred Years, Hundred Stories'. The Centenary Project Office also curated an Exhibition, 'Precious Memories', a collection of over 500 photographs, memorabilia and books, celebrating the spirit of CMC Campus life. The Exhibition was inaugurated by Dr. Sethu Bai, alumnus of the first MBBS Batch of 1942.

On August 9, 2018, Dr. Robert Fish, the grand-nephew of Ida Scudder released 'One Step at a Time: The Birth of the Christian Medical College, Vellore' an illustrated 300- page book. Written by Dr. Reena George, the book traces the events that shaped medical education at Vellore from 1819 until the mid-1950s.

As part of the Centenary of Medical Education celebrations, a Symposium on Medical Education



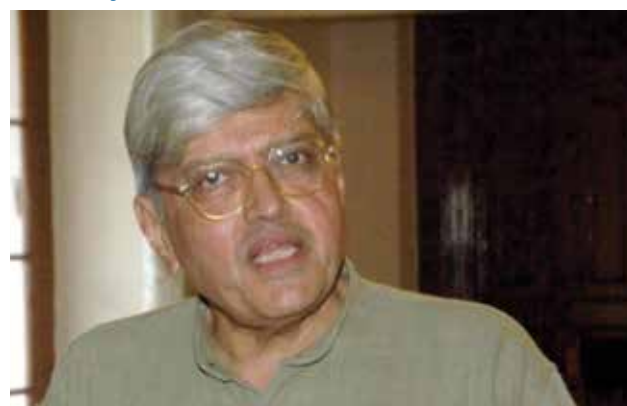
Shri Bezwada Wilson: The First Luminary lecture



Padma Shri Romulus Whitaker: The Second Luminary lecture



Mr. P Sainath: The Third Luminary lecture



Shri. Gopalakrishna Gandhi: The Fourth Luminary lecture

and Health Care Services was held in October 2018. The Symposium addressed the larger challenges of training doctors across the country to meet the needs of health care in India. This Symposium brought together administrators and teachers of medical education from premier medical institutes, Faculty from Nodal Medical Education Units, government and non-government stakeholders in public health care services, including from the Directorate General of Health Services, New Delhi, the Tamil Nadu State National Health Mission, the Directorate of Medical Education and the Tamil Nadu Dr MGR Medical University to examine how medical education can be realigned to meet the health care objectives as envisaged in the National Health Policy 2017. Also present at the Symposium were former faculty, Principals and Directors of CMC, as well as senior doctors from the Mission field.

The National Christian Medical Educators' Conference was held in January 2019. This Conference focused on medical education as a calling from Christ.

To mark the Centenary Year of Medical Education, the Department of Posts has brought out a Special Postal Cover. The Special Cover was released

by Shri K. Somasundaram, Director (Mails and Business Development), Office of the Chief PMG, Tamil Nadu Circle, Chennai in January 2019.

'Living our Legacy', a bi-monthly column on the heritage of our Founder and other pioneers was brought out along with the CMC Newline. The column featured articles by Mrs. Usha Jesudasan and Rev. Dr. Arul Dhas. It also carried excerpts from 'One Step at a Time' by Dr Reena George.

It has truly been a blessed year. We have had opportunities to give thanks to God for the legacy that has been passed on to us, and that is ours to hand over; we have been able to review our present curriculum in order to continue to train socially relevant and professionally competent doctors; we have looked ahead to envisioning a future that has the Hand of God as the ever leading and ever guiding figure; we have looked inwards, and introspected; and we have looked outwards to luminaries from the larger community who inspire, empower and challenge.

Therefore, it is with reverence that we thank God for leading us thus; and it is with the same assurance that we look ahead to the next hundred years of service to our nation and humanity.

Allied Health Sciences:

From 1903, when Dr. Ida Scudder trained local women as compounders, CMC has seen continuous upgradation in informal in-service training to certificate, diploma and university degree level courses, and 2011 saw significant increases in the number and range of AHS courses. The training integrates classroom teaching with hands-on clinical and practical work. The courses are designed to improve knowledge and professional skills, build character, nurture motivation and strengthen drive not to be served, but to serve the poor and marginalised.

Distance Education

CMC Vellore's Distance Education Department was set up in September 2004 under Dr Vinod Shah whose watchword was "Refer Less, Resolve More".

The Distance Education Unit envisions an exponential increase in trained human resource for quality healthcare delivery, with a special focus on reaching the poor and marginalized in India and similar developing countries.

The department strives to achieve this by training all categories of health workers (doctors, nurses, allied health professionals, medical / nursing students and community volunteer workers) through targeted curricula which provide standardized theoretical and practical training conducted at more than 20 centres throughout the country.

407 doctors, 11 dentists, 240 community lay leaders and 15 facilitators trained in 2018 – 19

Collaborations

International

- » Liaising with UK-based GP Update and PCI (Primary Care International)
- » Liaising with PRIME (UK), CMF-UK, ICMDA
- » Contact Centres in Banepa, Nepal, Mengo Hospital, Uganda, Munouf hospital, Egypt & Ogbomosho, Nigeria
- » Ongoing discussion with Loma Linda University
- » Collaboration with Community Health

Global Network (CHGN) to run the CLHTC program in Uttarakhand

National

- » Government bodies: NHM (National Health Mission). The State Health Society, Bihar Govt. has been a partner in this training program since 2010.
- » Ongoing discussions with State Health Societies of Nagaland, Chhattisgarh & Madhya Pradesh to start Family Medicine training for the government doctors.
- » Mission Organizations: CMAI (Christian Medical Association of India)
 - EMFI (Evangelical Medical Fellowship of India).
 - EHA (Emmanuel Hospital Association) - many EHA hospitals serve as contact centers our courses
- » Academic Bodies: AFPI (Association of Family Physicians of India)

University

- » Tamil Nadu Dr MGR Medical University
- In addition to the 100 M.Med Family Medicine students, the department also provides the learning modules, conducts skills training workshops and conducts the practical examination for upto 100 students selected by the university.

Institutional

- » Department of Endocrinology, Diabetes & Metabolism - For co-facilitating in the DFID course
- » RUHSA - Partnering in the Community Lay-leaders course
- » Dental Unit I - Certificate in General Dentistry (CGD) - approved and launched in 2017.
- » Department of Geriatrics - Post Graduate Diploma in Geriatric Medicine (PGDG) - co-facilitating the course
- » Transfusion Medicine - Course approved and targeted to launch in 2019 Mission Hospitals
- » 27 Mission Hospitals for the CLHTC (community lay-leaders) Program

- » 14 Mission Hospitals for Family Medicine Program
- » Christian Fellowship Hospital, Oddanchatram and Padhar Hospital, MP - Partner hospitals to serve as contact centres for the Mental Health Course (Post graduate diploma in Mental Health) - launched in January 2019

Recognitions

- » Dr. Johann Ebenezer has been invited to be an international advisor for Primary Care International - December 2018
- » Dr. Jachin Velavan & Dr. Rebekah Zechariah received an award in April 2018 on behalf of the unit at the WONCA Rural Health Conference, New Delhi for the unit's contribution in Leadership in Rural Medical Education

College of Nursing

In December 2009, the centenary year for nursing education in CMC Vellore, the College of Nursing moved out of the main hospital premises to a sprawling new campus in Kagithapattarai, very close to the hospital. The Nursing Campus includes, apart from the College of Nursing, hostels for student nurses, administrative offices, spacious classrooms, a digital library, conference room and a chapel, surrounding airy courtyards.

About 600 students study in the College of Nursing. The courses include diploma, degree (B. Sc Nursing), post certificate B.Sc, M. Sc, Ph.D and post diploma courses in several specialities. At CMC, nursing education and ward work are closely integrated giving enhanced standards of patient care and the highest quality of theoretical and hands-on education. Public Health Nursing in the Indian context is an important part of the curriculum. The College strongly emphasizes preventive and promotive health. A nurse managed outreach programme, CONCH (College of Nursing Community Health), was launched in 1987. This covers 63,000 people living in 20 villages and semi urban areas adjoining Vellore town.

In 2004, the College of Nursing was designated as a WHO collaborating centre for Nursing and

Midwifery development; one of two such centres in India. It has also been given a five-star rating by the National Assessment and Accreditation Council of the University Grants Commission and is a study centre for the national Ph. D. consortium.

In November 2017, the College of Nursing was granted the 'Nursing Excellence' certification by the National Accreditation Board for Hospitals and Healthcare Providers (NABH). CMC Vellore is the largest healthcare institution with a nursing manpower of over 2800, to achieve this honour. Obtaining this certification entailed meeting 48 standards with 216 objective elements covering seven chapters namely, Nursing Resource Management (NRM), Nursing Care of Patients (NCP), Management of Medication (MOM), Education, Communication and Guidance (ECG), Infection Control Practices (ICP), Empowerment and Governance (EG), and Nursing Quality Indicators.

New initiatives:

1. Preparation of the following modules:
 - » OSCE online module
 - » Disaster Nursing online module
 - » Modules on Infection Control Practices and Stroke
2. Integration of bioethics in undergraduate curriculum
3. WHO collaborating center activities:
 - » Capacity Building of Nursing Personnel, Directorate of Health Services, Government of Madhya Pradesh.
 - » Capacity Building in Strengthening of Emergency and Disaster Nursing
4. Formation of Association of Perioperative Nursing in India (APNI)
5. Dedication of sports ground in the Kagithapattarai campus
6. Departments of Paediatric Nursing and Obstetrics & Gynaecological Nursing were recognized as departments for Ph.D programme by the Tamilnadu Dr.MGR Medical University, Chennai.

Medical Academia Directory

Distance Education Programmes

M Med - 1
Master of Medicine in Family Medicine
MFM - 1
Masters in Family Medicine
PGDFM - 1
Post Graduate Diploma in Family Medicine
PGDFM Govt TNHSP / NRHM - 1
DFID - 1
Distance Fellowship in Diabetes Management
CLHTC - 1
Community Lay Leader's Health Training Certificate
FDP - 1
Facilitator Development Programme
PGDG - 1
Post Graduate Diploma in Geriatric Medicine
CGD - 1
Certificate in General Dentistry
PGDMH - 1
Post graduate Diploma in Mental Health

College of Nursing Courses

Total Number of Undergraduate Courses – 2
Diploma in General Nursing
B.Sc. Nursing
Total Number of Postgraduate Courses – 2
B.Sc. for Trained Nurses
M.Sc. Nursing
Total Number of Post Diploma Courses – 12
Cardiothoracic Nursing
Critical Care Nursing
Emergency & Trauma Nursing
Neonatal Nursing
Neuro & Neuro Surgical Nursing
Oncology Nursing
OR Technique & Management
Psychiatric Nursing
Orthopaedics & Rehabilitation Nursing
Gerontological Nursing
Burns Nursing
Renal Nursing
Total Number of Fellowships in Nursing Courses – 4
Family Nurse Practice
Haematology Nursing
Respiratory Nursing
Paediatric Critical Care Nursing

Allied Health Sciences 2018-19

Undergraduate Courses - 19
B.Sc. Medical Record Science
Bachelor of Occupational Therapy
Bachelor of Physiotherapy
B.Sc. Medical Laboratory Technology
B.Sc. Critical Care Technology
B.Sc. Dialysis Technology
B.Sc. Nuclear Medicine Technology
B.Sc. Radiology & Imaging Technology
B.Sc. Radiotherapy Technology
B.Sc. Medical Sociology
B.Sc. Cardio Pulmonary Perfusion Care Technology
B.Sc. Accident & Emergency Care Technology
Bachelor of Prosthetics & Orthotics
B.Sc. Neuro-Electrophysiology
B.Sc. Operation Theatre & Anaesthesia Technology
B.Sc. Cardiac Technology
Bachelor of Audiology & Speech Language Pathology
B.Sc. Optometry Technology
B.Sc. Respiratory Therapy

P.G. Diploma Courses - 12
Genetics Diagnosis Technology
Assisted Reproductive Technology
Cardiac Technology
Clinical Pastoral Counselling
Cytogenetics
Dietetics
Fellowship Hospital Administration
Health Economics, Policy & Financial Management
Health Management
Histopathological Laboratory Technology
Hospital Administration
Medical Microbiology

Diploma Courses - 11
Anaesthesia Technology
Hand & Leprosy Physiotherapy Technology
Hospital Equipment Maintenance
M.R.T. (Radiodiagnosis)
Optometry
Prosthetics & Orthotics
Urology Technology
Dermatology Laboratory Technology
Hospital Sterilisation Technology
Anaesthesia Technology (Chittoor)
Medical Laboratory Technology (Chittoor)

Medical Courses

Undergraduate Courses
MBBS
Postgraduate Fellowship Courses - 6
Accident & Emergency Medicine
Advanced General Dentistry
Diabetes
Family Medicine
Medical Genetics *
Palliative Medicine
Post Doctoral Fellowship Courses – 63
Anaesthesia
Cardiac Anaesthesia*
Neuro Anaesthesia*
Cardiology
Cardiac Pacing and Electrophysiology
Critical Care Medicine
Critical Care Medicine
Dental
Advanced Training in Oral & Maxillofacial Surgery
Dermatology
Paediatric Dermatology
Endocrinology
Diabetology*
Endocrinology
Endocrine Surgery
Endocrine Surgery
ENT
Audio vestibular Diseases
ENT – Head & Neck – Skull Base Surgery
Implantation Otology*
Paediatric Otorhinolaryngology*
Phonosurgery
Rhinology
Gastrointestinal Sciences
Advanced Gastrointestinal Endoscopy
Haematology
Bone Marrow & Stem Cell Transplantation
Clinical Haematology
Molecular Haematology
Hepatology
Hepatology
Medicine
Clinical Genetics
Emergency Medicine*
Geriatric Medicine

Microbial Medicine and Infections Control* (Formerly known as Infectious Diseases)
Neurocritical Care
Nephrology
Interventional Nephrology - 2 (every 6 months)
Renal Transplantation
Neurology
Paediatric Neurology
Neurosurgery
Neurosurgery Spine
Paediatric Neurosurgery
Skull Base Neurosurgery
Obstetrics & Gynaecology
Gynaec Oncology*
Reproductive Medicine*
Clinical Embryology
Orthopaedics
Paediatric Orthopaedics*
Short Fellowship in Paediatric Orthopaedics
Spinal Disorders Surgery
Hand & Reconstructive Microsurgery*
Pathology
Cytogenetics*
Laboratory Haematology
Haematopathology
Neuropathology
Paediatrics
Developmental Paediatrics
Paediatric Infectious Diseases
Paediatric Intensive Care
Paediatric Nephrology*
Neonatology
Plastic Surgery
Cosmetic Surgery
Cranio-Maxillo-Facial and Microsurgery
Psychiatry
Child & Adolescent Psychiatry
Radiology
Cardiovascular & Thoracic Imaging
Cross Sectional Imaging
Neuro & Vascular Interventional Radiology*
Paediatric Radiology
Respiratory Medicine
Allergy, Asthma & Immunology
Pulmonology

Rheumatology

Advanced Arthritis, Rheumatism & Autoimmunity
(formerly known as Clinical Immunology & Rheumatology)

Surgery

Breast Surgery

Colorectal Surgery

Head & Neck-General, Oral Oncosurgery and Reconstructive Surgery

Hepato Pancreato & Biliary Surgery

Upper GI & Bariatric Surgery

Phlebology

Radio Diagnosis (2 & 3 years)

Radiotherapy (2 & 3 years)

Respiratory Medicine (3 years)

Transfusion Medicine (3 years)

E.N.T (2 & 3 years)

General Surgery (3 years)

Obstetrics & Gynaecology (2 & 3 years)

Orthopaedics (2 & 3 years)

Ophthalmology (2 & 3 years)

Postgraduate Diploma Courses (2 Years) – 11

Anesthesiology (D.A)

Child health (D.C.H)

Clinical pathology (D.C.P)

Dermatology, Venereology, Leprosy (D.D.VL)

Otorhinolaryngology (D.L.O)

Obstetrics & Gynaecology (D.G.O)

Ophthalmology (D.O)

Orthopaedics (D.Ortho)

Psychological Medicine (D.P.M)

Medical Radio Diagnosis (D.M.R.D)*

Medical Radiotherapy (D.M.R.T)

Postgraduate Degree (MD/MS Courses) 2 Year (Post Diploma) & 3 Year– 24

Anaesthesiology (2 & 3 years)

Anatomy (3 years)

Biochemistry (3 years)

Community Medicine (3 years)

Dermatology, Venereology & Leprosy (2 & 3 years)

General Medicine (3 years)

Geriatric Medicine (3 years)

Microbiology (3 years)

Nuclear Medicine (3 years)

Physical Medicine & Rehabilitation (3 years)

Psychiatry (2 & 3 years)

Pathology (3 years)

Paediatrics (2 & 3 years)

Pharmacology (3 years)

Physiology (3 years)

Higher Specialty (DM/M.Ch)- (3 & 6 years) – 22

Cardiology (3 years)

Clinical Haematology (3 years)

Gastroenterology (3 years)

Nephrology (3 years)

Neurology (3 years)

Cardio Vascular Thoracic Surgery (3 years)

Paediatric Surgery (3 years)

Plastic & Reconstructive Surgery (3 years)

Urology (3 years)

Neurosurgery (3 years -post m.s)

Neurosurgery (6 years - post m.b.b.s)

Endocrinology

Hepatology

Neonatology

Rheumatology

Endocrinesurgery

Vascular Surgery

Critical Care

Hand Surgery

Infectious Diseases

Hepato Pancreato Biliary Surgery

Gynaecological Oncology

* New courses from 2016

M.Sc. Courses (2 Years)– 5

Epidemiology

Medical physics

Biostatistics

MS Bioengineering

MPH (Master of Public Health)

Research Office Activities

The Research office conducts a number of activities for researchers in our organization.

One of the important activities is to conduct the Institutional Review Board (IRB) meetings that helps researchers to produce good quality research work. Each research study is reviewed by external and internal members of the IRB committee and the researcher is allowed to carry out research only after obtaining approval from the IRB. The IRB members meet twice every month one for PG studies and one for Faculties and Clinical Trials. During the period April 2018 to March 2019, a total of 681 research proposals have been cleared by the IRB.

The research office also provides for research grants for the researchers to conduct their research. This grants consists of an amount of upto Rs 1.5 lakhs per year for a total of 2 years [Total of Rs 3 lakhs]. In addition, junior consultants have the opportunity to apply for a major research grant [Total of Rs 4 lakhs] once during their period of service. Other important meeting that occur throughout the year include the Compensation Committee meetings [held monthly] and the Data Safety Monitoring Board [DSMB].

The Research Office conducts the Research Methodology and Good Clinical Practice (GCP) workshop [3 – 4 times a year] which is a 3 day workshop for all faculty, PG's and others involved in conducting research. This certification is generally required by a sponsor when a clinical trial is being proposed. A manuscript writing workshop is held 4 times a year to provide support for researchers with the help of Biostatisticians and senior research faculties from CMC to complete the manuscripts that they have been working on.

This year we have started 2 new workshops. We have organized a Thesis Guide workshop for all faculties who guide their PG's for research. The idea of the workshop was to make the guides understand their importance as a guide in any research study and the roles and responsibilities as

guides. Thisoneday workshop covered a variety of topics including the role of the student and the guide in research, various study designs, ethical aspects of the research study and insights into some common mistakes done during Research studies. The workshop was an interactive one with both the resource person and the attendees throwing in a lot of questions and solutions.

A workshop on Recertification in Ethics, Research and Good Clinical Practice (GCP) was also conducted for the first time as a one day workshop. This workshop is meant for faculty that have already previously attended the 3 day GCP workshop and need recertification.

The Research office conducts an annual symposium called “Annual Research Day” every year where all the researchers in and around Christian Medical College, Vellore come and present their research findings. The annual research day from 2017 was converted to a 2 day event in view of the large number of proposals that were received. Presentations occurred as both poster and oral presentation in 7 different categories and the top three papers in each category were awarded cash prizes and trophies. The Dr. Shubhankar Mitra memorial award is awarded to students who have received top scores in Medical, Allied Health Sciences and Nursing categories.

The research office along with support from the Vellore Foundation provides travel grants to Students as well as unconfirmed faculty to present their research studies in the various conferences held both Nationally and Internationally. A total of 18 grants were provided in 2018 [16 for faculty and 2 for students]. Highlight numbers and add photos

Research Grants	Numbers Approved	Value
Internal	260	2,37,55,689
External	108	53,03,16,601

Laurels and Recognition

» **Dr. Mammen Chandy**, alumnus of the MBBS batch of 1967 and former Professor and Head of the Department of Haematology was the recipient of the prestigious **Padma Shri Award**, one of the highest civilian awards of the country. Under his guidance the first bone marrow transplant was done in 1986 and since then the bone marrow transplantation programme in CMC, Vellore is the leading programme in the country.

» **Gagandeep Kang**, Professor and the Laboratory Director of the Wellcome Trust Research Laboratory, has become the first Indian woman scientist to be elected as a **Fellow of the Royal Society (FRS)** in 360 years. The Royal Society is a Fellowship of many of the world's most eminent scientists and is the oldest scientific academy in continuous existence. The society has included many leading scientists over the past four centuries including Albert Einstein and Stephen Hawking.

» Christian Medical College, Vellore has been **Ranked No. 3** in the '**India Rankings 2018**'. This award comes under the '**National Institutional Ranking Framework**', Ministry of Human Resource Development, Government of India. The award was given by Shri Prakash Javadekar, Minister of Human Resource Development, in a ceremony held in New Delhi on 3rd April, 2018



Dr Mammen Chandy receiving the Padma Shri Award

» The Department of Obstetrics and Gynaecology and Family Welfare was awarded **Shields and Certificates of Appreciation** by the Department of Health and Family



In recognition of pioneering work by Dr Gagandeep Kang



The Paul Harrison Award being presented to Dr. Moji Jini (Batch of 1977)

Welfare, Tamilnadu for the best performance (Sterilizations) among Voluntary Organizations. The award was presented by Dr. C.VijayaBaskar, MBBS, BL Honorable Minister for Health and Family Welfare.

» The Paediatric Nephrology Division has been successfully awarded the following partnerships by the **International Society of Nephrology (ISN)**: Sister Renal Centre Trio Programme between the 3 centres-Hospital Central De Maputo, Mozambique, Christian Medical College, Vellore and University of California Los Angeles, USA. Sister Transplant Programme between Christian Medical College Vellore and Emory and Children's Transplant Center / Emory University.

» Department of Cardiothoracic Surgery performed the first **video assisted thoracoscopic lobectomy (VATS)**, for the first time in CMC institution on 15th January, 2019.

» The CHAD Hospital, Community Health Department was awarded the 3rd place in the State of Tamil Nadu for having achieved the highest number of sterilization performance among the voluntary organizations in the State for the year 2017 to 2018.

» **The Paul Harrison Award** was presented to **Dr. Moji Jini**. This award which is CMC's highest honour, is presented to an alumnus for significant, steadfast and selfless service, thus living out the motto of the institution, 'Not to

be ministered unto but to minister. Dr. Moji Jini, joined CMC in 1977, and after completing his MBBS, completed his post-graduation in Surgery from AIIMS. He joined the Arunachal Pradesh health service before returning to CMC in 1992 to be trained as a paediatric surgeon and returned to Arunachal Pradesh, as the first super-specialist. He used his position as the highest ranking health official of the state to not only set up the TomoRiba Institute of Health and Medical Sciences, but six nursing schools, the Arunachal Pradesh Medical Council, a day-care Cancer Centre and formalised the Arunachal Pradesh Health Cadre Rules and Regulations. He initiated an NGO, the Siang Health Mission that conducts health camps in remote areas of Arunachal Pradesh and the neighbouring Assam. The first batch of MBBS students joined the Medical College in 2018.

» Clinical Hematology celebrates completion of 2000 allogeneic stem cell transplants

» The Department of gastroenterology hits a milestone, by successfully performing an **Endoscopic Ultrasound-Guided Gastroenterostomy** for the first time in South India, on the 19th of November, 2018

» Distance education receives "**Leadership in Health Care**" award at the 15th World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA), World Rural Health Conference, hosted by the Association of Family Physicians of India (AFPI).

Events

- April 2018 15th World Rural Health Conference
- May 2018 Inauguration of the Centenary year of Medical Education
- June 2018 Dedication of the Neonatal and Maternity Facilities at the CMC Vellore Chittoor, Campus
- June 18 Dedication of Housing and Accommodation Services at CMC Vellore, Chittoor Campus
- July 2018 College of Nursing Alumni Reunion – 2018 ‘Bonding Beyond Boundaries’
Dedication of the ‘MinION’ in the Department of Clinical Microbiology
First National Workshop in Pharmaceutical Medicine
Dedication of the Foundation of “Aashraya” at Chittoor – A Project of the MBBS Batch of 1991
- August 2018 Dr. Robert Fish Delivers the Seventh Dr. Ida S. Scudder Humanitarian Oration and speaks at Rotary Club of Vellore
Annual Alumni Reunion 2018
CMC’s Kerala Flood Relief Endeavour
- September 2018 NABH training and implementation programme at Christian Institute of Health Science and Research (CIHSR), Dimapur, Nagaland
Inauguration of Temporary Storage Area (TSA)
- October 2018 Meeting of survivors of gynaecological cancers
- November 2018 Graduation Ceremony for Postgraduates
Undergraduate Medical Graduation
First National Perioperative Nursing Conference – December 10, 2018
Department of Gastroenterology successfully performed an endoscopic ultrasound guided gastro-enterostomy for the first time in South India.
The first Venolive conference, conducted by the Dept. of Vascular Surgery
Dedication of the new indoor badminton court
- December 2018 World AIDS Day-2018
Adolescent health week celebrations,
Founder’s Day Celebration
4th International Conference on Birth Defects-ICBD 2018



Felicitation on The Centenary Year by The President of India Shree Ram Nath Kovind



Robert Fish Delivers the Seventh Dr. Ida S. Scudder Humanitarian Oration, seen with Dr J.V.Peter (Director)

- January 2019 Lamp Lighting Ceremony-2018
Winter Symposium 2019
Release of a Special Postal Cover The Allied Health Sciences
Graduation Ceremony
Dedication of new facilities at the Mary Verghese Institute of Rehabilitation
- February 2019 1 & 2 National Conference on Safety in Healthcare, Occupation & Quality (SHOQ-CON 2019)
College of Nursing Graduation
Dedication of services at the CMC Vellore Chittoor Campus
College Day
Dedication of the CMC, Vellore Chittoor Campus, College of Nursing Building
- March 2019 International Symposium on Emerging Trends in Radiotherapy
1st BMT Survivorship Meeting, April 08, 2019

Note: For complete list of Events, visit: <https://www.cmch-vellore.edu/Events.aspx?type=INSTITUTION>



Presentation by Medical Students at Cognitio 2018: The 6th National Undergraduate Research Symposium



Praise and worship at Shiloh 2018: The annual students' mission conference



Poster discussion at Cognitio



A session at Shiloh



Cyclothon 2019 : Jointly organised by CMC and VIT



Three cheers for the Silver and Blue : AHS Graduation 2019



Dedication of foundation of `Ashraya`, home for patient relatives at Chittoor

CMC Going Green



Energy conservation

To reduce our electricity consumption we have turned to the sun, which shines strongly on Vellore. Solar PV arrays are installed on top of many buildings to generate electricity during peak hours. Solar water heating reduces some of the load on conventional boilers. A Solar Concentrator - Arun 100 - has been installed on the roof of the Engineering Block, to pre-heat water, using the sun's rays, for use in the laundry and for the steam requirements of the hospital. It tracks the sun and focuses energy on a water filled coil,



pre-heating water before it goes to the boiler. This has significantly reduced the use of furnace oil with a subsequent reduction in greenhouse gas emissions.



Waste management

The Malargal Magalir Federation is another green initiative that was started to manage our waste in environmentally sustainable ways while also providing employment to women from disadvantaged backgrounds. The federation trains the women in self-help groups to manage all kinds of waste products, through re-purposing and re-using as well as through selling plastic and metal.

Water conservation & sewage treatment

Water and power are particularly scarce in the district of Vellore. CMC has advanced sewage treatment plants in its campuses, and using the latest filtration and treatment technologies, the water is recycled and then used for a wide range of needs including air conditioning.

The Environmental Engineering department has installed a sewage treatment plant called Decentralised Wastewater Treatment Systems (DEWATS), to treat the effluents from the CMC Chittoor Campus in the neighbouring state of Andhra Pradesh. The recycled waste water is used for gardening and flushing applications.



Campus greening

Our founder Ida Scudder's great love for Nature is part of campus folklore. When Ida bought the land where the medical college, student hostels and various staff quarters are currently located, it was almost barren.

Today, through the sustained efforts of generations of Nature-loving students and staff inspired by Aunt Ida's example, the campus is now a green, biodiverse haven

Support services

Dietetics

Inpatient diets served: 1,39,586

Patients seen in outpatient department: 29,280

Rula International Awards

Best Paper of the Year Award 2018 for
"Importance of Plate Waste Assessment in
a Hospital Kitchen" by Mr Ramesh and Ms
Manimegalai

CSSD

Number of items sterilised 6063720

Articles supplied to OPD 784693

On daily average packs 16,612

CSSD was awarded 'Certificate of Area for
excellence' by the External NABH team during the
surveillance assessment 2018.

CHIPS - Centralised Hospital Information Processing Systems

CHIPS is responsible for a fully integrated
Hospital Information System (HIS) for the Main
Hospital and peripheral centres. This HIS covers
the patient registration and appointment system,
admission-discharge-transfer (ADT) process,
Outpatient and Inpatient billing, Company &
Insurance billing and Reimbursement procedures,
and is integrated with MRD, Laboratories,
Pharmacy Department, Operation Theatre,
Anaesthesia Department, Dietary and Laundry.
It includes the Clinical Workstation that is an
interface by which doctors can view and use
patient data.

Before 2003

- » Pharmacy Stores, Office and direct orders
- » Drug dispensing module

2003

- » Study of the various modules for HIS
- » Planning
- » Started development of various modules
- » Discharge summary and medical reports

Jan 2004

- » Implementation of the ADT module
- » Subsequent Integration with the Clinical
work station
- » Planning for subsequent modules
- » Staff and dependent Module

Jan 2004

- » Implementation of the Appointments
scheduling, Investigation payments
- » Integration with the Clinical work station
- » Online Lab Modules
- » Result view for the doctors at one click

July-Aug 2004

- » Medical records and chart tracking
- » OR posting, Theatre billing
- » Anaesthesia

Oct 2004

- » Inpatient billing, integration with the Clinical
work station and other lab modules
- » ICD coding
- » Drug history and Medication

2005

- » Online Lab ordering
- » Online E prescriptions
- » Credit authorization for cashless transactions
and reimbursement for patients
- » Automation of online Ward and ICU charging

2006

- » Extension to the Peripherals
- » Implementation of the CHRIS card
- » Centralized machine scheduling
- » Payment through various portals like (web,
kiosk)

2007 onwards

- » Integration with finance
- » Paperless blood collection area
- » Emergency Module

- » EMR with unit based performance
- » SMS alerts

Electrical Engineering

Maintains

- » 33KV HT Service 1 No
- » 11KV HT Services 12 Nos
- » 415V LT Services 54 Nos
- » Lifts 81 Nos
- » Generators (Hospital Campus) HT Gen sets 6250 KVA (5 Nos)
- » LT Gen sets 7030KVA 20 Nos
- » Solar Panels (Total installed capacity) 214 KWp
- » Transformers (In all Campuses) 30 Nos
- » UPSs >1000 KVA of Centralized UPSs and a large No. of Individual UPSs
- » All the 33 KV and 11KV substations and associated switch gears.
- » The Department records the Energy Consumption of all the Resident accommodations within all the Campuses, various departments of CMC and various commercial establishments functioning within the CMC Campuses. The various types of consumers are billed according to the Tariff applicable, monthly or bimonthly
- » The department maintains the networks for TANGEDCO supply, Generator supply and Central UPS supply and the various components & switch gears associated with it.
- » The department maintains the networks for TANGEDCO supply, Generator supply and Central UPS supply and the various components & switch gears associated with it.
- » The repair and replacement of lights, fans, hotplates/ Induction stove, exhaust fans, extension boards and switch boards are done in the department. The rewinding of fans and motors are also organized.

Online Monitoring

Online Energy monitoring system has been introduced in the year 2011 to study the 11 KV incoming supply from the TANGEDCO. Then all the transformers and HT Genset connected through network for the Town Campus by



Schneider Electric in the year 2016. It was displayed and viewed by Electrician also 24x7 hrs to know the outages and loading pattern in Electrical Department. After the successful study it was extended to the peripheral campus in 2017.

Environmental Engineering

- » 20.60 Lakh litres/day to the CMC town campus
- » 2.40 lakh litres/day to the Kagithapattarai campus
- » 45,000 litres/day to the Schell campus



Mechanical Engineering

Other than the overall maintenance of the hospital equipment at the main hospital and the peripherals, the Asset Recycling Office of Mechanical Engineering Department has been rendering the services of condemnation of equipment against replacement as well as recycling of usable condemned equipment within the institution, peripheral units and to Mission hospitals.

The following 8 sections are involved in the overall maintenance by the mechanical department:

- » Medical gases section (MLG)
- » Boiler, Solar and Heat Recovery section (BSH)
- » Lab Water Treatment (LWT)
- » OR Table, Ward Furniture and Surgical Instruments Section (OTF)
- » OR Dome light, Electronics, and Instrumentation section (ODE)
- » Autoclave and Gas Sterilization section (AGS)
- » Laundry and LPG section (LLP)
- » Dietary and Mechanical Engineering projects (DPJ)

Civil Engineering

- » Number of major projects: 21
- » Number of minor projects: 76
- » Overall value: Rs. 1,41,547,085

Biomedical Engineering

Biomedical Engineering Department (BME) is responsible for the Installation, Calibration, Testing and Maintenance of medical electronic equipment in our Institution. BME also maintains

Pneumatic Chute System in our Institution.

The following are the statistics of the various works carried out by Biomedical Engineering department in the year 2018 -2019.

New Equipment inspection & installation	686
New Spare/ Accessories Checked	2148
Condemnation - Equipment recommended	324
Condemnation - Spare/ Accessories recommended	95
AMC processed	781
Medical equipment Calibration	2713
Preventive Maintenance carried out	959
Online job requests received	7416
Projects	3
Pneumatic & non medical system complaints	301

BME introduced the “Online radiation protection accessories management” through which Radiology Department and Administration can monitor & view the screening status and history of the Apron.

Transport



Going places : CMC Transport Department

Total kilometres Covered by CMC vehicles during the year 2018-2019 5,23,583 Kms. 30,851Kms more while comparing to the last year

Transport Dept Statistics at a glance per day

Average Kilometres run by CMC Vehicles per day	1435 Kms
Average No. of trips taken by CMC Vehicles per day	143 trips

Average No. of Taxi trips per day	27 Trips
Average number of requests processed per day	27 Requests

Postal

Letters	59043
Parcels	1968

Laundry

Pieces of linen	57,98,380
Average per day	15890

Hospital and College Maintenance

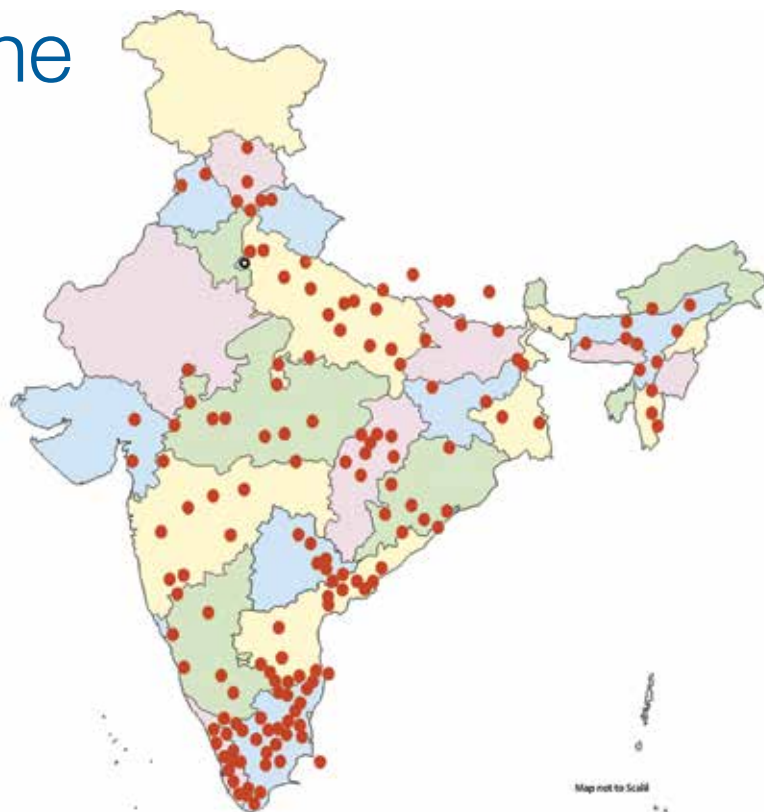
The hospital and the college maintenance teams work tirelessly with the efforts of all the housekeeping staff to maintain the high standards of cleanliness at the campuses.

- » Keeps the hospital Main Block, O Block & Q Block clean by doing Sweeping, Mopping and High dusting on the public pathways, corridors, staircases, verandas, sunshades, staff two wheeler - ISSC building four wheeler parking and surroundings of the residential areas.
- » Does the cleaning of washrooms and toilets in main block offices, OR and public toilets in the hospital campus
- » Collecting Infectious and Non infectious waste from Wards & ICU's.
- » Collecting glass bottles, vials and plastic bottles from Wards & ICU's.
- » Clearing dustbins from open areas in the Main Block, O Block & Q Block.
- » Maintenance department coordinating with Exnora staff -MalargalMagalirFedrationsself help group for waste management
- » Coordinate with Pest Control India (PVT ltd) for Insects eradication Services inside the hospital premises.

Departs that have contributed to CMC's Green Initiative.



Members of the CMC Council, India



Andhra Evangelical Lutheran Church
Arcot Lutheran Church
Assemblies of God in North India
Baptist Church of Mizoram
Chaldean Syrian Church of the East
Christian Assemblies in India
Christian Services Society of Bengal, Orissa & Bihar
CNI Nagpur Diocese
CNI Synod- The Synodical Board of Health Services
CSI Coimbatore Diocese
CSI Dornakal Diocese
CSI Kanyakumari Diocese
CSI Karimnagar Diocese
CSI Karnataka Diocese- Interdiocesan Medical Board
CSI Krishna- Godavari Diocese
CSI Madras Diocese
CSI Madhya Kerala Diocese
CSI Madurai-Ramnad Diocese
CSI Medak Diocese
CSI North Kerala Diocese
CSI Rayalaseema Diocese
CSI South Kerala Diocese
CSI Tiruchy- Tanjore Diocese
CSI Tirunelveli Diocese
CSI Vellore Diocese
Council of Baptist Churches in North East India
Council of Christian Hospitals
Eastern Regional Board of Health Services

Emmanuel Hospital Association
Evangelical Lutheran Church in Madhya Pradesh
Gossner Evangelical Lutheran Church
India Evangelical Lutheran Church
Inter Ashram Fellowship
Jeypore Evangelical Lutheran Church
KhasiJaintia Presbyterian Assembly
Kolhapur Church Council
Malankara Jacobite Syrian Orthodox Church
Malankara Orthodox Syrian Church Catholicate of the East
Marathi Mission
Marthoma Syrian Church of Malabar
Mennonite Medical Board of the Mennonite Church in India
Methodist Church in India
Mizo Presbyterian Church Synod
North Bank Baptist Christian Association
Poona Christian Medical Association
The Salvation Army- India South Eastern Territory
The Salvation Army- India South Western Territory
The Salvation Army- India Western Territory
Samavesam of Telugu Baptist Churches
Southern Asia Division of Seventh Day Adventists
Tamil Evangelical Lutheran Church
Uttar Pradesh Regional Board of Health Services
The Leprosy Mission

Overseas Friends and Benefactors

Australia

Australian Board of Vellore Christian Medical College

Canada

Canadian Baptist Overseas Mission Board (CBOMB)
Vellore Ludhiana Committee of Canada

Germany

Christoffel Blinden Mission
Christian Mission Service
Friends of Vellore, Germany

Nepal

United Mission to Nepal

Singapore

South East Asia Union Mission of Seventh Day Adventists

Sri Lanka

C.S.I. Jaffna Diocese

Sweden

Friends of Vellore, Sweden

United Kingdom

Baptist Missionary Society
Church Mission Society
Council for World Mission
Friends of Vellore, United Kingdom
International Service Fellowship (Interserve)
Methodist Church Overseas Division
United Society for the Propagation of the Gospel

United States of America

American Leprosy Mission
Board of International Ministerial Ministries of the
American Baptist Foreign Mission Society
Evangelical Lutheran Church in America
General Conference of Seventh Day Adventists
International Mission Board, Southern Baptist
Convention
Reformed Church in America
Service Association of the Christian Church
United Church Board for World Ministries
United Methodist Church of America
Vellore Christian Medical College Foundation Inc.



Chelsea Clinton with Drs Honorine Ward and Anna Pulimood (Principal) at the Centennial Gala

Know your Administrators

Christian Medical College Vellore Association

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Mr. Barkos Warjri
Vice Chairman
Dr. John Cherian Oommen
Secretary
Dr. Solomon Sathishkumar
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Mr. S. Robby Pria Sundersingh

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Mrs. Ebenezer Ellen Benjamin (Nursing & Campus Development)

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Deputy Registrars (Nursing)
Mrs. Asha Solomon
Mrs. Sheeba Rani P
Medical Superintendent
Dr. K. Prasad Mathews
Associate Medical Superintendents
Dr. Joy John Mammen

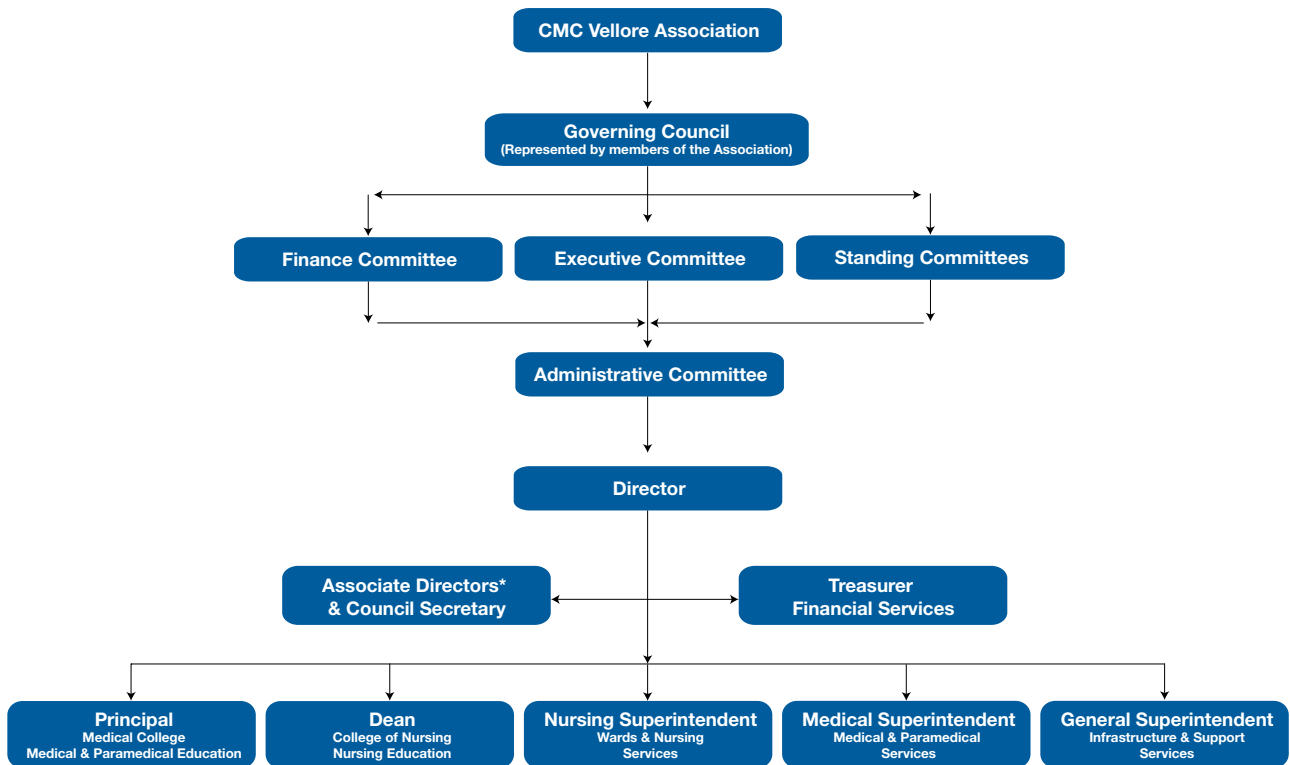
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Deputy Medical Superintendents
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Dr. Gahukamble Abhay Deodas (Theatre)
Dr. Chiramel George Koshy (Technicians)
Dr. Rajesh I (Medical Board/ Telemedicine / Medical Audit)
Dr. Henry Prakash M (Peripherals, Quality Circle)
Dr. Mona Matilda Basker (In-charge for ISSCC Building) CASBI / Condemnation / ISSCC
Nursing Superintendent
Dr. Premila Lee
Deputy Nursing Superintendents
Dr. Bala Seetharaman, (Human Resource)
Mrs. Ilavarasi Jesudoss (Peripherals)
Additional Deputy Nursing Superintendents
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Mrs. Nirmala Margaret P (Quality Management)
Mrs. Dorothy Devakirubai (Material Management)
General Superintendent
Mr. Ebinezer Sundarraaj
Associate General Superintendents
Mr. S. Sukumar Solomon (Engineering and Planning)
Dr. Paul Ravindran (Human Resource Management)
Mr. Reni Charles (Materials Management)
Mr. Anand John Samuel G (Quality, Safety, Maintenance and Support services)
Deputy General Superintendent
Mrs. Anniamma Jacob (System & Operations)

Roster Of Heads Of Departments And Units

Department/ Unit	Head		
Accounts	Mr. Robby Pria Sundersingh S.	Dermatology I	Dr. Renu E George
Anaesthesia I	Dr. Tony Thomson Chandy	Dermatology II	Dr. Susanne A Pulimood *
Anaesthesia II	Dr. Sajan Philip George	Developmental Paediatrics	Dr. Beena Koshy
Anaesthesia III	Dr. Ramamani M	Distance Education Unit	Dr. Anna B. Pulimood
Anaesthesia IV	Dr. Raj S.*	Dietary	Mrs. Manimegalai B.
Anaesthesia V	Dr. Ekta Rai	Emergency Medicine	Dr. Prasad Mathews K
Anatomy	Dr. Suganthy J	Endocrinology	Dr. Simon Rajaratnam*
Archives	Dr. Reena Mary George	Endocrinology I	Dr. Nihal Jacob Thomas
Biochemistry College	Dr. Molly Jacob	Endocrinology II	Dr. Thomas V. Paul
Bioengineering	Dr. Suresh Devasahayam R	Engineering AC and Refrigeration	Mr. S. Sukumar Solomon
Bioethics	Dr. Anna B Pulimood	Engineering Civil	Mr. Balasubramanian S
Biostatistics	Dr. Antonisamy B	Engineering Electrical	Mr. S. Sukumar Solomon
Cardio Thoracic Surgery I	Dr. Birla Roy D.Gnanamuthu	Engineering Mechanical	Mr. Prasad T
Cardio Thoracic Surgery II	Dr. Korah T Kuruvilla	Engineering Planning	Mr. Jayasankar V
Cardio Thoracic Surgery III	Dr. Roy Thankachen*	Engineering Environmental	Mr. Jayasankar V
Cardiology I	Dr. Viji Samuel Thomson	Engineering Electronics	Ms. Indumathi J
Cardiology II	Dr. Paul V. George	E.N.T	Dr. Rita Ruby Anbuselvi A.*
Cardiology III	Dr. Oommen K George*	ENT I	Dr. Regi Thomas
Cardiology IV	Dr. John Roshan Jacob	Head and Neck Surgery Unit I	Dr. Rajiv C Michael*
Critical Care Unit	Dr. Subramani K	ENT II	Dr. Ajoy Mathew Varghese
Centre for Stem Cell Research	Dr. Alok Srivastava	ENT III	Dr. Rupa Vedantam
Chaplaincy	Rev. Ananthi Arputha Mary	ENT IV	Dr. Anjali Lepcha
CHIPS	Mr. Ebenezer Sundarraj	ENT V	Dr. Suma Susan Mathews
Chittoor Campus	Dr. Nihal Jacob Thomas	Family Medicine	Dr. Sunil Abraham
Clinical Biochemistry	Dr. Pamela Christudoss	Forensic Medicine	Dr. Mousumi Sen
Clinical Epidemiology	Dr. Abraham Peedicayil	G. I. Sciences	Dr. Eapen C. E.*
Clinical Gastroenterology and Hepatology	Dr. Eapen C. E.	Medical Gastroenterology Unit-I	Dr. Ebby George Simon
Clinical Genetics	Dr. Sumita Danda	Medical Gastroenterology Unit-II	Dr. Amit Kumar Dutta
Clinical Haematology	Dr. Biju George	General Pathology	Dr. Vivi Miriam Srivastava
Clinical Pharmacology and Pharmacology	Dr. Binu Susan Mathew	Geriatrics	Dr. Surekha Viggewarpu
Clinical Virology	Dr. Rajesh K.	Gynaecologic Oncology	Dr. Abraham Peedicayil
Child Health	Dr. Leni Grace Mathew*	Hepatology	Dr. Eapen C. E.
Community Health Nursing	Dr. Vathsala Sadan	HLRS	Dr. Binu Prathap Thomas
Community Health Department	Dr. Vinod Joseph Abraham	Hospital Management Studies	Dr. Samuel N.J. David
C.S.S.D	Mrs. Florence Ponnice. R	Infectious Diseases	Dr. George M. Varghese
Cytogenetics	Dr. Vivi Miriam Srivastava	Internal Audit	Mr. Nandakumar T
Dental I	Dr. Rabin K Chacko	Library	Dr. Joyson Soundarajan
Dental II	Dr. Jagadish Ebenezer*	Low Cost Effective Care Unit	Dr. Sunil Abraham
		Materials	Mr. Joseph Selvaraj

Medical Education	Dr. Minnie Faith K.
Medical Oncology	Dr. Ashish Singh
Medical Records	Dr. Vijaykumar Aruldas
Medical ICU	Dr. Binila Chacko
Medicine I	Dr. Alice Joan Mathuram
Medicine II	Dr. Thambu David Sudarsanam*
Medicine III	Dr. Sowmya Sathyendra
Medicine IV	Dr. Samuel George Hansdak
Medicine V	Dr. Ramya I
Microbiology	Dr. Joy Sarojini Michael
Neonatology	Dr. Santhanam Sridhar *
Neonatology I	Dr. Niranjan Thomas A.W.
Neonatology II	Dr. Kurien Anil Kuruvilla
Nephrology	Dr. Santosh Varughese*
Nephrology I	Dr. Vinoi George David
Nephrology II	Dr. Santosh Varughese
Neurology	Dr. Vivek Mathew
Neurosurgery I	Dr. Ari George Chacko
Neurosurgery II	Dr. Vedantam Rajshekhar
Neurosurgery III	Dr. Baylis Vivek Joseph*
Neuro Chemistry	Dr. Christhunesa Soundararajan C
Nuclear Medicine	Dr. Julie Hephzibah
Obstetric and Gynaecology 1 New	Dr. Elsy Thomas
Obstetrics and Gynaecology II	Dr. Lilly Varghese
Obstetrics and Gynaecology III	Dr. Annie P. Villoth*
Obstetrics and Gynaecology IV	Dr. Manisha Madhai Beck
Obstetrics and Gynaecology V	Dr. Jiji Elizabeth Mathew
Occupational Therapy	Mr. Sanjeev Padankatti
Operation Theatre	Dr. Prasad Mathews K.
Ophthalmology I	Dr. Sanita Mary George Korah*
Ophthalmology II	Dr. Sheeja Susan John
Ophthalmology III	Dr. Padma Paul
Orthopaedics	Dr. Vijay T K. Titus
Orthopaedics I	Dr. Vinoo Mathew Cherian*
Orthopaedics II	Dr. Pradeep Mathew Poonnoose
Orthopaedics III	Dr. Thilak S Jepeganam
Out Patients Department	Dr. Rohit Amritanand
Paediatric Orthopaedics	Dr. Thomas Palocaren
Paediatric Neurology	Dr. Maya Mary Mathew
Paediatric Surgery I	Dr. Ravi Kishore B.S.S
Paediatric Surgery II	Dr. John Mathai*
Paediatric ICU	Dr. Ebor Jacob Gnananayagam
Paediatric Unit I	Dr. Anna Simon
Paediatric Unit II	Dr. Sathish Kumar T.

Paediatric Unit III	Dr. Sneha Deena Varkki
Paediatrics Unit IV	- Critical Care And Emergency
Palliative Care	Dr. Reena Mary George
Personnel Department	Mrs. Hannah Paul
Pharmacy	Dr. Sujith John Chandu
Physiology	Dr. Elizabeth Tharion
Physiotherapy	Mr. Andrew Babu Jayakumar
Plastic Surgery I	Dr. Kingsly Paul M.*
Plastic Surgery II	Dr. Ashish Kumar Gupta
PMR	Dr. Raji Thomas*
PMR I	Dr. Judy Ann John
PMR II	Dr. Jacob George
Psychiatry	Dr. Paul Russell S.S.*
Psychiatry - I	Dr. Rajesh G.
Psychiatry - II	Dr. Deepa Ramaswamy
Psychiatry - III	Dr. Suja Kurian
Child and Adolescent Psychiatry	Dr. Priya Mary Mammen
Pulmonary Medicine Unit-I	Dr. Christopher D.J.*
Pulmonary Medicine Unit-II	Dr. Richa Gupta
Quality Management Cell Office	Dr. Suceena Alexander
Radiology	Dr. Gibikote Sridhar V.
Reproductive Medicine	Dr. Aleyamma T.K.
Rheumatology	Dr. John Mathew
RT - I	Dr. Thomas Samuel Ram
RT - II	Dr. Simon Pradeep Pavamani*
RT - III	Dr. Selvamani B.
RUHSA	Dr. Shantidani Minz
Staff and Student Health Service	Dr. Prasad Mathews K.
Surgery I	Dr. Pranay Gaikwad
Head and Neck Surgery Unit II	Dr. Amit Jiwan Tirkey*
Surgery II (Colorectal)	Dr. Mark Ranjan Jesudason
Surgery III	Dr. Inian S.
Surgery IV	Dr. Sukria Nayak*
Surgical ICU	Dr. Subramani K
Spinal Disorders Surgery Unit	Dr. Venkatesh K
Endocrine Surgery	Dr. Deepak Thomas Abraham
Hepato Pancreatico Biliary Surgery	Dr. Frederick Lorence Vyas
Vascular Surgery	Dr. Sunil Agarwal
Transfusion Medicine and Immuno Haematology	Dr. Joy John Mammen
Urology I	Dr. Chandrasingh J
Urology II	Dr. Santosh Kumar*
Wellcome Trust Res. Laboratory	Dr. Eapen C. E.



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Principal



Dr. Premila Lee,
Nursing Superintendent



Dr. Vathsala Sadan, Dean,
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(Chittoor)



Dr. Chandrasingh J*
(Finance)



Dr. Vikram Mathews*
(Administration)



Dr. K. Prasad Mathews
Medical Superintendent



Mr. Ebinezar Sundarraj,
General Superintendent



Mr. S Robby Pria
Sundersingh, Treasurer



Partner with CMC

High King of heaven, my victory won,
May I reach heaven's joys, O bright heaven's sun!
Heart of my own heart, whatever befall,
Still be my vision, O Ruler of all.

Priorities, Programmes and Projects that we invest in,

Mission focus	Education	Healing
Target population	All India, with priority for mission hospital network	those who come to us
Larger impact	Improve health systems, India & wider	Leading the way: a model for others
Key aspects	Affordable & Accessible to all	Compassionate, excellent, Special concern for marginalised & vulnerable
	Scholarships for AHS and nursing “support of education of the disadvantaged”-;	Trauma care - Golden hour “trauma care”, trauma infrastructure, development of state of the art trauma facilities and capabilities (equipment etc.)
	Distance Education All kinds of health professionals from all over India (and abroad). Low cost, high impact on the health of the nation	Secondary healthcare development at the Chittoor campus - focus on “strengthening secondary care”, developing Chittoor campus as a hub for training healthcare professionals (all levels) in secondary health care
	International Fellowships, Electives, observerships Training & exposure for people from abroad	Addressing gaps in healthcare in India (town campus) - “addressing gaps in healthcare” - disability management, rehabilitation, cancer care
		The vulnerable population – “support of the vulnerable” – mother and child, adolescent health, HIV affected individuals
		Charity / concessionary healthcare

Would you like to support...

Education

Annual Cost of Educating

1. An Allied Health Sciences (Diploma) Student is Rs. 3,73,825
2. An Allied Health Sciences (Degree) Student is Rs.7,47,650
3. A B.Sc., Nursing Student is Rs.5,32,000
4. A Medical Student is Rs.9,07,850

Patient care

1. One artificial limb for a patient is Rs 13,575
2. Food for 2 weeks for a poor patient is Rs.2,520
3. 2 Weeks of hospitalisation for a patient is Rs.62,557
4. Maintaining 1 free bed for a year is Rs.10,06,031
5. Supporting a free clinic in a deprive area for one year is Rs,30,25,000

Urgently needed Advanced Trauma Care Centre

CMC has the only major trauma centre between Chennai and Bangalore, but it is overcrowded and unable to cope with the rising demand.

We are building a state of the art trauma centre in our new campus at Kannigapuram, on the outskirts of Vellore, right on the national highway. We need Rs.300 crores to complete the construction as well as to enable us to subsidise care for those who may need free treatment. Our dream for all our patients is never to have to turn anyone away because they can't afford the cost of treatment.

and for which we need partners and external funds

Research	Wholeness
priority to lower resourced & developing nations	Communities outside our walls, mostly near us
The world + benefits our own teaching & practice	Model for others
Increasing effectiveness, reducing economic burden	Community orientated, Special concern, Sustainable?
Research – “address key health issues in India and developing cost effective therapies through relevant research”;	Jawadhi Hills Tribal project - focus on “tribal health”, preventive, tribal education, sanitation, outreach medical work to the tribal community)
developing a core research centre; note tax relief S. 35 (1)	RUHSA - rural development and upliftment project (focus on “social development”, empowerment, rural health)
Partnerships and collaborations for research	CHAD, CONCH
Fluid research & some key research projects that need funding	LCECU, Urban poor - focus on the “urban poor”, health, health education, prevention, palliative care, etc.
Exporting to the world Incubating, scaling up/ making available/commercialising valuable inventions and innovations, publications, materials etc.	Community ophthalmology - focus on addressing “preventable blindness” (cataracts, retinopathy and other aspects identified by community ophthalmology)
Validating research tools for India	Missions: Supporting, empowering and resourcing the mission hospital network and people in medical mission.

Advanced Trauma Care Centre Needs	₹ cost per unit	Cost in US\$
Golden Hour Care for one patient	upto ₹1.5 lakhs	\$2,200
Good Samaritan Care for one patient	upto ₹5 lakhs	\$7,200
Counselling room	₹8 lakhs	\$11,500
Research and lecture facility	₹28 lakhs	\$40,400
Ultrasound Machine	₹40 lakhs	\$57,700
General bed (60 beds)	₹40 lakhs	\$57,700
C-arm X-ray machine (2 numbers)	₹50 lakhs	\$72,100
Triage area	₹50 lakhs	\$72,100
High dependency general bed (58 beds)	₹55 lakhs	\$79,300
Examination room (6 rooms)	₹80 lakhs	\$1,15,300
Digital X-ray unit	₹1 crore	\$1,44,100
Trauma ICU bed (20 beds)	₹1 crore	\$1,44,100
Trauma Care operation theatre (7 numbers)	₹1.5 crore	\$2,16,200
Demonstration room with simulators	₹1.5 crores	\$2,16,200
Trauma high speed CT scan machine	₹11 crores	\$15,85,500
Blood Bank and support facility	₹11 crores	\$15,85,500

Low Cost Effective Care Unit

The Low Cost Effective Care Unit (LCECU) seeks to care for the most deprived urban residents of Vellore City. It provides health care through a 48-bedded hospital, runs family health clinics in five slum areas of Vellore, works with volunteers among the disabled in the community, and conducts home visits and outreach work in these areas. Services are provided free or at a nominal cost.

A generous matching offer by a well-wisher doubles donations to the LCECU. Right now LCECU needs funds to open new outreach clinics, and develop its vision to provide “Care in the Community” to the poorest of the poor—health care, enhancing educational and training opportunities and encouraging and strengthening economic development and sanitation, through dialogue and empowerment of the community.

You Give	CMC Gives
Rs.10,00,000	Rs.20,00,000
Rs.2,00,000	Rs.4,00,000
Rs.1,00,000	Rs.2,00,000
Rs.50,000	Rs.1,00,000
Rs.10,000	Rs.20,000
Any amount	Doubled

Emergency Fund

People come to CMC, from all over India, only after visiting their local doctors and hospitals. Often by the time they reach Vellore, they need urgent treatment, which may cost far more than they can earn in a whole year.

The Emergency Fund has been set up to help patients get treatment as quickly as possible. This gives grants of up to Rs.1 lakh, to help patients needing ICU care, expensive operations, cancer treatment, costly medicines etc.

Donate Now
Rs.1,00,000
Rs.50,000
Rs.20,000
Rs.10,000
Rs.5,000
Any amount

Equipment Need for Child Health

Help us buy a CRRT Machine for Paediatric ICU



Common diseases like Dengue fever, Rickettial infection and other severe infections including Sepsis with shock can cause children to go into acute kidney failure. These children need dialysis in the Paediatric ICU. The best way for this to be given, when the child is on ventilator support, is by Continuous Renal Replacement Therapy, but we don't have a machine for this and it costs Rs. 12 lakhs.

Donate Now
Rs.1,00,000
Rs.50,000
Rs.20,000
Rs.10,000
Rs.5,000
Any amount

Centenary Endowment Fund

The Centenary Endowment Fund seeks to become a continuing resource to enable major life- saving operations to be performed on those who can otherwise never afford them. CMC waives the doctor's professional fees, but there are still very high costs in running the operation theatre and in the consumable and prosthetic items needed. Grants of up to Rs 2,00,000 are given to poor patients, out of the interest on the endowment fund. CMC uses the interest earned to pay for expensive operations such as transplants and complex heart surgeries.

152 underprivileged patients requiring surgeries benefited through the Centenary Endowment Fund. Visits to these patients' homes were made to assess their economic status. The committee

met every month to decide on sanctions of the fund. 124 Home visits were made to assess socio-economic background for patients who were eligible for the Centenary Endowment Fund

CENTENARY FUND FOR UNEXPECTED TREATMENT RELATED COMPLICATIONS

Emergency Fund can be requested for poor patients in the general wards who have no insurance coverage and who require treatment for unexpected treatment related complications. Maximum allotment for such patients who get into complications is Rs. 1, 00,000/-.

Person To Person Fund

Every day thousands of people arrive at CMC's hospitals, in desperate need but unable to pay for their treatment. We do our best to treat them, not

wanting to turn anyone away. But to do this we need your help. Often a small gift can make all the difference.

The Person to Person Scheme (PTP) enables each one to help one. The PTP Fund gives grants of up to Rs.10,000 per patient, and CMC then increases this five fold, so that the patient receives up to Rs.50,000 of free treatment. We will send you a report about the patient(s) we have helped through your gift.

You Give	CMC Gives	Total Rs.	Patients
Rs.20,000	Rs.80,000	Rs.1,00,000	2
Rs.10,000	Rs.40,000	Rs.50,000	1
Rs.5,000	Rs.20,000	Rs.25,000	1
Rs.1,000	Rs.4,000	Rs.5,000	1
Any amount	Four times!	Five times	

A Patient's Story

46-year-old T has two grown up sons aged 30 and 26. Her older son is married and lives separately with his own family. Her younger son is a drunkard, works as a daily wage labourer and never comes home. He is not supporting his parents physically or financially. Thai and her husband collect up the empty cardboard boxes, waste papers and bottles which are thrown outside shops. They start at 4.00 am in the morning before the Municipality refuse collectors come to clear after 7 am. Once a week, they sell what they have collected and get £50.00 per week. At present, Thai is not working and her husband finds it very difficult to meet the basic needs of the family. They have their own house which is incomplete. It was built when their older son was unmarried. It has only one room and the corner of the house is used as a kitchen. Mostly they cook outside the house. They have electricity but there is no water or sanitation facilities. They get free rice which is provided by the Tamil Nadu government. They have three simple meals a day. You can see the house and the mound of waste papers in the picture below.

One day while T was collecting the waste bottles, accidentally she picked up a chemical bottle which was leaking and sustained chemical burns to the right hand, wrist, left foot



and back. She was brought to Casualty and was admitted for further treatment. Since the fingers were fully damaged, the index, middle and ring fingers were amputated. Fillet flap of the hand, Escharotomy surgery was done and split thickness skin grafting was carried out. After nine days of hospitalisation, she was discharged and advised to come to HLRS Out Patient Department for follow up.

The cost of this expert care came to £338.00. It was well beyond the limited means of a poor family like Thai's. They were unable to make any contribution towards the hospital bill. We took care of T in the hope that some kind donor would finance her care. The bill was settled by the Person to Person Scheme and from institutional funds. We join the grateful family in thanking you for this timely help.

Friends of Vellore

The Friends of Vellore (FOV) is an overseas association that has espoused the cause of CMC since the late 1940s, by representing the interests of the institution internationally. With its presence across the countries listed below, the role of FOV has been greatly adapted over the decades, in tandem with the dynamic progress of CMC. The projects supported by this fellowship include 'Jawadhi' Tribal Health project, the Person-to-Person Programme Fund, quite a few social projects through RUHSA and LCECU and the Palliative Care.

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Ideals for life: Walking past The Heritage Centre in the Main Campus

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<http://home.cmcvellore.ac.in/admissions/admin.htm>

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