



ECMO 101

ECLS AND EXTRACORPOREAL CPR ESSENTIALS WORKSHOP

First ever ECMO & ECPR workshop organised in Kerala in association with ECMO Society of India.

As Part of



EMKERALA 2026

UNITED FOR EMERGENCY MEDICINE

Annual State Conference of
Emergency Medicine Association,
Kerala Chapter

 24th April, 2026

 Adlux Convention Centre, Angamaly

Limited Seats

Distinguished International & National Faculty

Hybrid Workshop

(2 days online followed by 1 day hands on Simulations)

Dear Colleagues,

The Departments of Critical Care and Emergency Medicine at Apollo Adlux Hospital, Kochi, cordially invite you to participate in a unique educational initiative focused on Extracorporeal Life Support (ECLS), including ECMO and ECPR.

We are proud to present the first dedicated ECMO & ECPR workshop for Emergency Physicians in Kerala, conducted in collaboration with the ECMO Society of India. As extracorporeal therapies rapidly evolve, ECMO and ECPR are becoming powerful life-saving options for patients with refractory cardiac arrest, cardiogenic shock, and severe respiratory failure.

Through this workshop, our goal is to bring this cutting-edge technology closer to frontline clinicians. The Departments of Critical Care and Emergency Medicine at Apollo Adlux are committed to translating advanced expertise from specialized centers to the physicians who manage critically ill patients in the emergency department and ICU. By strengthening collaboration and team-based care, we aim to make extracorporeal support more accessible and effective for patients who need it the most.

The program is designed as a hybrid learning experience, combining focused online sessions on ECLS physiology, patient selection, and management with immersive hands-on simulation training in cannulation, circuit management, and troubleshooting.

Participants will also have the opportunity to learn directly from distinguished national and international faculty, gaining practical insights from experts who are shaping the future of extracorporeal life support.

We warmly welcome you to join us in Kochi for this pioneering learning experience and be part of the growing community advancing ECMO and ECPR care.

Warm regards,
Critical Care and Emergency Medicine
Apollo Adlux Hospital
Kochi

Online Session: Day 1

ECMO Foundations & Shock Physiology

Session Schedule - 5:00pm - 10:00pm

21

April, 2026

5:00 PM -
5:15 PM

Introduction to the ECMO Online Education Program & Overview of the Day
Dr Ranjit Unnikrishnan / Dr Srivatsa

5:15 PM -
5:45 PM

ECMO – Introduction, Indications & Contraindications
Dr. Jojo John Kurian

5:50 PM -
6:20 PM

Core ECMO Physiology (Flow, Sweep, Oxygen Delivery, Afterload)
Dr. Jumana Yusuf Haji

6:25 PM -
6:55 PM

Types of ECMO – VA, VV & Hybrid Configurations
Dr. Likhith Roy D

7:00 PM -
7:30 PM

Cannulation Essentials & Vascular Access Principles
Dr. Jobin Abraham

7:35 PM -
8:05 PM

Initiation, Monitoring & Early Stabilization of VA ECMO
Dr. Pramod K Guru

8:10 PM -
8:40 PM

Hemodynamics in Cardiogenic Shock (SCAI Staging & MCS Triggers)
Dr. Bindu Akkanti

8:45 PM -
9:15 PM

VA ECMO in Cardiogenic Shock - Device Selection Strategy
Dr. K R Ramanathan

9:20 PM -
9:50 PM

LV Venting & Unloading Strategies During VA ECMO
Dr. K Madhan Kumar

Online Session: Day 2

ECPR, ECMO Management & Systems of Care

Session Schedule - 5:00pm - 10:00pm

22

April, 2026

5:00 PM -
5:15 PM

Introduction to Day 2 Program & Overview of ECPR, ECMO Management and Systems of Care
Dr Ranjit Unnikrishnan / Dr Likhith Roy

5:15 PM -
5:45 PM

Building an ECMO & ECPR Program (Shock Team, Simulation & Governance)
Dr. K Ramanathan

5:50 PM -
6:20 PM

Fundamentals of ECPR – Indications & Time-to-Flow Principles
Dr. Arpan Chakraborty

6:25 PM -
6:55 PM

ECPR in IHCA & OHCA – Patient Selection & Systems Approach
Dr. Rodrigo Diaz

7:00 PM -
7:30 PM

ECMO Complications – Recognition & Immediate Management
Dr. Pranay Oza

7:35 PM -
8:05 PM

Anticoagulation Strategies on ECMO
Dr. Rinett Sebastian K V

8:10 PM -
8:40 PM

Transfusion Management on ECMO
Dr. Srivatsa Nagachandan

8:45 PM -
9:15 PM

Post - ECPR Care Bundle For Improving Outcomes
Dr. Sachin Shah

9:20 PM -
9:50 PM

Weaning & Trial Off from VA ECMO
Dr. Sunil Karanth

Day 3 (April 24, 2026)
ECMO Hands-on Workshop Schedule

Time	Activity
08:30 – 09:00	Registration

Pre-Lunch Session

Time	Activity
09:00 – 09:15	Inauguration of ECMO Workshop Opening Ceremony
09:15 – 09:30	Introduction to ECMO Workshop - Overview Lecture
09:30 – 10:00	Knobology: Know the ECMO Machine & Components - Central Demonstration
10:00 – 11:30	Priming of ECMO Circuit - Hands-On Priming
11:30 – 13:00	ECMO Cannulation Techniques Hands-On Simulators

Lunch Break: 13:00 – 14:00

Post-Lunch Session

Time	Activity
14:00 – 14:30	ECPR Demonstration - Central Demonstration
14:30 – 17:00	ECMO Troubleshooting Scenarios <ul style="list-style-type: none">• Bedside VV ECMO scenarios• Bedside VA ECMO scenarios• Simulation-Based Hands-On

Course Director



Dr. Ranjit Unnikrishnan
Senior Consultant
Director of ECLS & HOD Critical Care
Apollo Adlux Hospital

Course Co-Director



Dr. Srivatsa Nagachandan
Consultant Critical Care
Co-Director of ECLS
Apollo Adlux Hospital

International & National Faculty



Dr. Pranay Oza
Co Director ECMO & Intensive Care
Riddhi Vinayak Multispeciality
Hospital, Mumbai
Founder & Past President of
ECMO Society of India



Dr. K R Ramanathan
Associate Professor
Adult Cardiac Intensivist (CTICU)
National University Heart Centre
Singapore



Dr. K Madhan Kumar
Director - ECMO, VAD &
Transplant Surgeon
Kauvery Hospital Chennai
President ECMO Society of India



Dr. Jojo John Kurian
Consultant Intensivist
Medical Trust Hospital Kochi



Dr. Pramod K. Guru
Critical Care Specialist,
Internist, Nephrologist
Mayo Clinic Florida USA



Dr. Sachin Shah
Consultant
Lead for Extracorporeal Life
Support Service, Barts Health
NHS Trust United Kingdom

International & National Faculty



Dr. Bindu Akkanti
Medical Director,
Heart Failure ICU,
Heart & Vascular Institute
UTHealth Houston USA



Dr. Jumana Yusuf Haji
Consultant Critical Care & ECMO Specialist
Fortis Mulund Gurgaon
Haryana



Dr. Rodrigo Diaz
Unit Chief of ECMO
Hospital San Juan de
Dios Santiago, Chile



Dr. Arpan Chakraborty
Senior Consultant
Critical Care & ECMO Services
Apollo Multispeciality
Hospitals, Kolkata



Dr. Sunil Karanth
Chairman, HOD & Consultant
Critical Care Medicine
Manipal Hospital
Old Airport Road - Bengaluru



Dr. Jobin Abraham
Senior Consultant
Anaesthesiology & Critical Care
Aster Medcity Kochi



Dr. Rinett Sebastian K V
Senior Consultant
Cardiothoracic & Vascular Surgery
Apollo Adlux Hospital



Dr. Likhith Roy D
Associate Consultant
Critical Care
Apollo Adlux Hospital



Dr. Farhan
Senior Registrar
Critical Care
Apollo Adlux Hospital

Organising Team



Dr. Binoy Xavier K P
Consultant &
Head of Department,
Emergency Medicine & Trauma Care,
Apollo Adlux Hospital



Dr. Jidhin Davis
Associate Consultant,
Emergency Medicine &
Trauma Care,
Apollo Adlux Hospital



Dr. Ihjas A P
Senior Registrar
Emergency Medicine &
Trauma Care,
Apollo Adlux Hospital

Registration Fees for Online + Hands on Workshop:

₹8000 + GST

Registration Fees for 2 days Online Sessions only:

₹3000 + GST

Workshop Registration - <https://emkeralaapolloadlux.in>



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