

# 21<sup>st</sup> ECMO Training Course

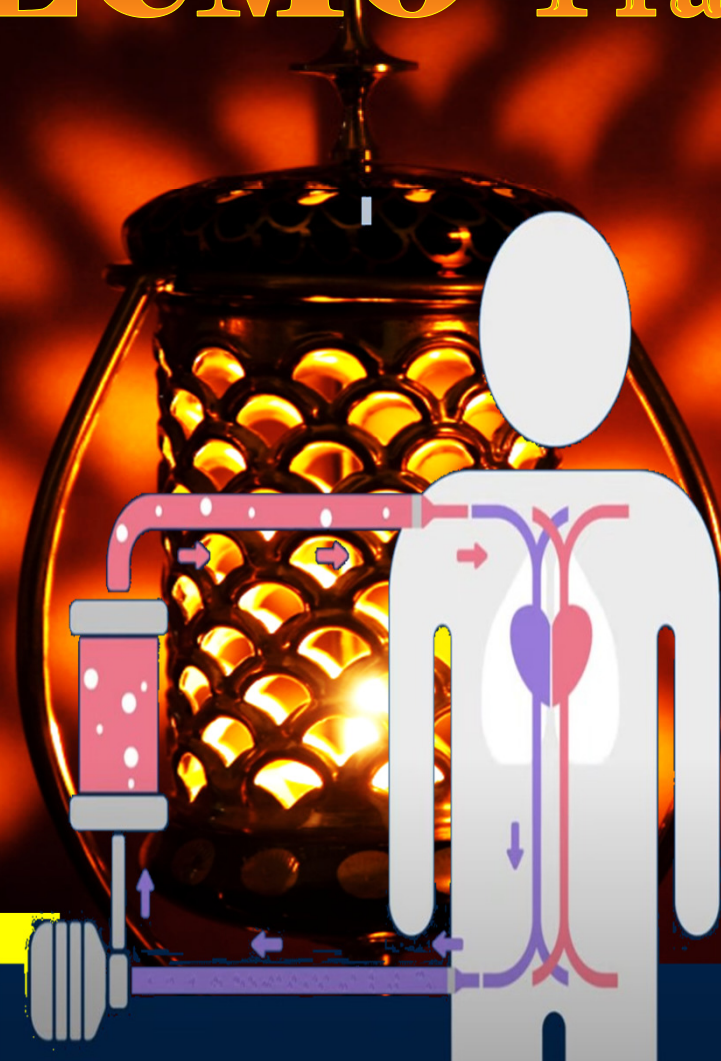
**ECMO INDIA  
2025 MUMBAI**

**3 – 5 JANUARY – VIRTUAL  
TALK**

**9 – 11 JANUARY – HANDS ON &  
SIMULATION**

**FOLLOWED BY  
MASTER CLASS ON ECPR & MCS  
1<sup>ST</sup> ADVANCED PAEDIATRIC  
WORKSHOP ON 6 JANUARY  
(VIRTUAL) & 12 JANUARY  
(HANDS ON)**

ECMO SAVES LIVES.....



**ELSO ENDORSED  
COMPREHENSIVE  
SIMULATION –  
BASED ECMO  
COURSE**



**Center of Excellence –  
Platinum – 2021 – 12/2024  
Gold – 2018 – 8/2021**

at....

**Riddhivinayak Critical Care and Cardiac Centre  
ELSO endorsed Simulation based ECMO training course**

**ECMO SOCIETY OF INDIA**



# 21<sup>st</sup> ECMO training course

## ECMO society of India

Presents

**“A Six days (Hybrid – 3 days Virtual & 3 days onsite)  
Interactive learning sessions on ECMO “**

**JANUARY 2025**

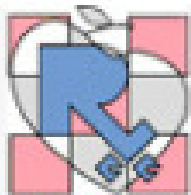
**3 – 5 JANUARY – VIRTUAL TALK**

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**FOLLOWED BY -**

- 1. MASTER CLASS ON ECPR & MCS**
  - 2. 1ST ADVANCED PAEDIATRIC WORKSHOP**
- ON 6 JANUARY (VIRTUAL) & 12 JANUARY (HANDS ON)**

**Venue – Riddhi Vinayak Multispecialty Hospital  
Nallasopara (west), Mumbai, India**



**RIDDHI VINAYAK**  
Critical Care & Cardiac Centre

**ECMO SOCIETY OF INDIA**





# Who should join & how?

- **Interested people**
  - Registered medical professionals who are keen to adapt ECMO as a career choice., like....
  - Intensivists – adult, pediatric, neonates
  - Perfusionists
  - Registered critical care nurses
  - Respiratory therapists
  - Cardiologists, Cardiac or Vascular surgeons or Anesthetists
  - Post graduate candidates MD,MS
  - Preferably teams of 3 to 5 people from the critical care centers which include intensivist, perfusionist & registered nurse
- **Course fees Including Redbook (6<sup>th</sup> Edition ELSO – e version)**
  - For training course – Rs 18000 / per person for doctors
  - For training course – Rs 15000/ per person for paramedical
  - For members of ESOI only – Rs 17000/- for doctors and Rs 14000 for paramedical
  - For ESOI students – Fellowship – Rs 15000 & certificate – Rs 13000
  - For foreign delegates – \$ 300 (only training course) \$ 350 – training course with Master class
  - Master class (12<sup>th</sup> January) – Only Mater class Rs 5000, Master class with training course – 3000 + training course fees
- **Contact number – 9821214971 / 9820321815**
- For registration - [https://www.ecmosocietyofindia.com/Conference\\_Registration.php](https://www.ecmosocietyofindia.com/Conference_Registration.php)

## **Salient features –**

- **Hard core training for those who are keen for ECMO as a carrier**
- **ELSO Endorsed Course – this makes you eligible for “ELSO Adult ECMO Practitioner Certification (E-AEC)” Step I & step II, for details visit <https://www.else.org/ecmo-education/certificationexam.aspx>**
- **Audio – visual training with wet lab experience**
- **6 days course (Hybrid – 3 days Virtual & 3 days onsite)**
- **From 3 – 5 January 2025 Virtual talks from 5 PM to 9 PM**
- **From 9 – 11 January 2025 workshop & simulation offline**
- **Around 32 lectures by ECMO & field experts – national & international**
- **Practical sessions –**
  - **21 hours for practical session – water drill, Demonstration, Hands on & High Fidelity Simulation**
  - **The delegates will be divided in 6 groups for 6 interactive station & mandatory hands on experience.**
- **Simulation and Exam on day 6**
- **Study material includes – book on ECMO, videos & slide presentations.**
- **Limited seats around 60 for training course**
- **Followed by - Master class on ECPR & MCS, 1st Advanced Paediatric workshop on 6 January (Virtual) & 12 January (Hands on)**



## National Faculty

- Dr Venkat Goyal
- Dr Vivek Gupta
- Dr Pranay Oza
- Dr Nandkishore
- Dr Arpan Chakraborty
- Dr Vinod Singh
- Dr Rakesh V
- Dr Indira Jayakumar
- Dr Vishal Sardhara
- Dr Dipanjan Chatterjee
- Dr Poonam Malhotra

- Dr K. Madhan Kumar
- Dr Kapil Thakkar
- Dr Riyan Shetty
- Dr Shivakumar
- Dr Jayanthi kishore

## International Faculty

- Dr Suneel Pooboni
- Dr RAMANATHAN K R
- Many More to be confirmed .....

# ESOI Training Course, Day 1, 3<sup>rd</sup> January 2025, Friday

	Pre Course Test MCQ – 20 marks – ONLINE on 2/01/2025 via Google form	
17.00 – 17.05	Inauguration & Lamp Lightening	
17.05 – 17.20	Course overview	Pranay Oza/ Venkat Goyal
17.20 – 17.40	ECMO – introduction & Indications	Riyan Shetty
17.45 – 18.05	History & statistics	Suneel Pooboni
18.10 – 18.30	ECMO – physiology	Pranay Oza
18.35 – 18.55	Type of ECMO - VA ECMO	Vivek Gupta
19.00 – 19.20	VV ECMO	Suneel Pooboni
19.25 – 19.45	Hybrid ECMO & Nomenclature	Rakesh V
19.50 – 20.10	Cannulation	Dipanjan Ch
20.15 – 20.35	Initiation & Monitoring	Shivakumar
20.40 – 21.00	Management	Vinod Singh
21.05 – 21.25	ECMO organization	Venkat Goyal

# ESOI Training Course, Day 2, 4<sup>th</sup> January 2025, Saturday

17.00 – 17.15	Recap	
17.20 – 17.40	Ventilation strategy during ECMO	Vivek Gupta
17.45 – 18.05	Sedation & analgesia during ECMO	Nandkishore
18.10 – 18.30	Neurological monitoring of ECMO	Suneel Pooboni
18.35 – 18.55	Patient related complications & management	Kapil Thakkar
19.00 – 19.20	Blood transfusions – when & what	Indira Jayakumar
19.25 – 19.45	Proneing, Nursing care & Physiotherapy of patient on ECMO	Rakesh V
19.50 – 20.10	Transport of patient on ECMO	Dipanjan Ch
20.15 – 20.35	Weaning, trial off & decannulation	Indira Jayakumar
20.40 – 21.00	Anticoagulation during ECMO	Poonam Malhotra
21.05 – 21.25	Renal issues & Dialysis during ECMO	Vivek Gupta

# ESOI Training Course – Day 3, 5<sup>th</sup> January 2025, Sunday

17.00 – 17.15	Recap	
17.20 – 17.40	Surgical interventions during ECMO	Dipanjan Ch
17.45 – 18.05	Role of Echo in ECMO	Venkat Goyal
18.10 – 18.30	Infections during ECMO	Suneel Pooboni
18.35 – 18.55	ECPR	Arpan Chakraborty
19.00 – 19.20	CO2 Removal device	Arpan Chakraborty
19.25 – 19.45	ECMO in Transplant ICU	K. Madhan Kumar
19.50 – 20.10	Paediatric respiratory ECMO	Nandkishore
20.15 – 20.35	ECMO in sepsis	Ramanathan K R
20.40 – 21.00	Newer indication & future of ECMO	Venkat Goyal
21.05 – 21.25	Cardiac stunning – prevention & management	Pranay Oza



# ESOI Training Course, Day 4, 9<sup>th</sup> January 2025, Thursday

07.45 – 08.15	Registration & Breakfast	
08.15 – 08.35	Recap	
08.35 – 09.45	Practical Session – Demonstration of Components, Circuit preparation & Circuit priming	Pranay Oza/ Venkat Goyal
9.45 – 10.45	Practical Session – Demonstration of Initiation, Monitoring on ECMO – Simulation	Pranay Oza & Venkat Goyal
10.45 – 11.30	Practical Session – Demonstration of Cannulation VV/ VA ECMO	Pranay Oza & Venkat Goyal
11.30 – 11.45	Inauguration & Lamp Lightening	Venkat Goyal & Pranay Oza
11.45 – 13.45	Practical sessions (25 mins each)	
	Station I – Initiation of ECMO – Planning & strategy	Dipanjan Chatterjee
	Station II – Circuit preparation – selection of component & making circuit & calculation of priming volume	Suneel Pooboni, Kapil Thakkar
	Station III – Circuit priming – priming volume & priming solution	Vishal Sardhara
	Station IV – Cannulation selection, site & Technic	Rakesh V
	Station V – Cannulation – Hands on VV/VA ECMO	Venkat Goyal,
	Station VI – Initiation & monitoring of ECMO – Hemodynamic changes (Simulation)	Pranay Oza
	Station VII	
	Station VIII	
13.40 – 14.30	Lunch	
14.30 – 15.40	Simulation on Ambulance Transport scenario Simulation on Proning, Trial off VA ECMO, Mobilization while on ECMO	Pranay Oza & Venkat Goyal
15.45 – 17.45	Practical Session (30 mins each)	
	Station I – Weaning, Trial off & weaning failure VV/ VA ECMO	Suneel Pooboni, Rakesh V
	Station II – Transport on ECMO Simulation	Vishal Sardhara
	Station III – Proning on ECMO Simulation	Dipanjan Chatterjee
	Station IV – Mobilization while on ECMO	Venkat Goyal
	Station V – Weaning, Trial off & weaning failure VV/ VA ECMO	Pranay Oza
	Station VI – Transport on ECMO Simulation	Kapil Thakkar
	Station VII – Proning on ECMO Simulation	
Station VIII – Mobilization while on ECMO		
17.45 – 18.30	Practical Session – Demonstration of Management of complications	Pranay Oza & Venkat Goyal



# ESOI Training Course – Day 5, 10<sup>th</sup> January 2025, Friday

## (Application of ECMO)

07.30 – 08.00	Breakfast	
08.00 – 08.20	Discussion on Pre Course test Answer	
08.15 – 09.00	Panel discussion – Ethical Issues In ECMO, Panellist – Pooboni, Venkat Goyal, Vivek Gupta, Dipanjan Ch	Arpan Chakraborty
09.00 – 11.00	Practical Session (40 mins each) - Mechanical Complication Station I – Power failure Station II – Air Embolism Station III – Component change – Pump Station IV – Component change – Oxygenator failure Station V – Power failure Station VI – Air Embolism Station VII – Component change – Pump Station VIII - Component change – Oxygenator failure	Kapil Thakkar, Ramanathan K R Dipanjan Chatterjee Rakesh V Venkat Goyal, Vishal Sardhara Vivek Gupta Pranay Oza
11.00 – 11.15	Tea Break	
11.15 – 12.15	Trouble shooting	Pranay Oza
12.15 – 12.30	How to make ECMO Economical	Pranay Oza
12.30 – 13.30	Lunch Break	
13.30 – 17.30	Simulation Scenarios on mechanical emergency – Simulation 1 Simulation 2 Simulation 3 Simulation 4 Simulation 5 Simulation 6 Simulation 7 Simulation 8	Pranay Oza, Ramanathan K R
17.30 – 19.00	Practical Exam, Mechanical complications – Power Failure (Mandatory for all), Priming & Change of components (Optional)	Entire Faculty

# ESOI Training Course – Day 6, 11<sup>th</sup> January 2025, Saturday (ECMO Simulation)

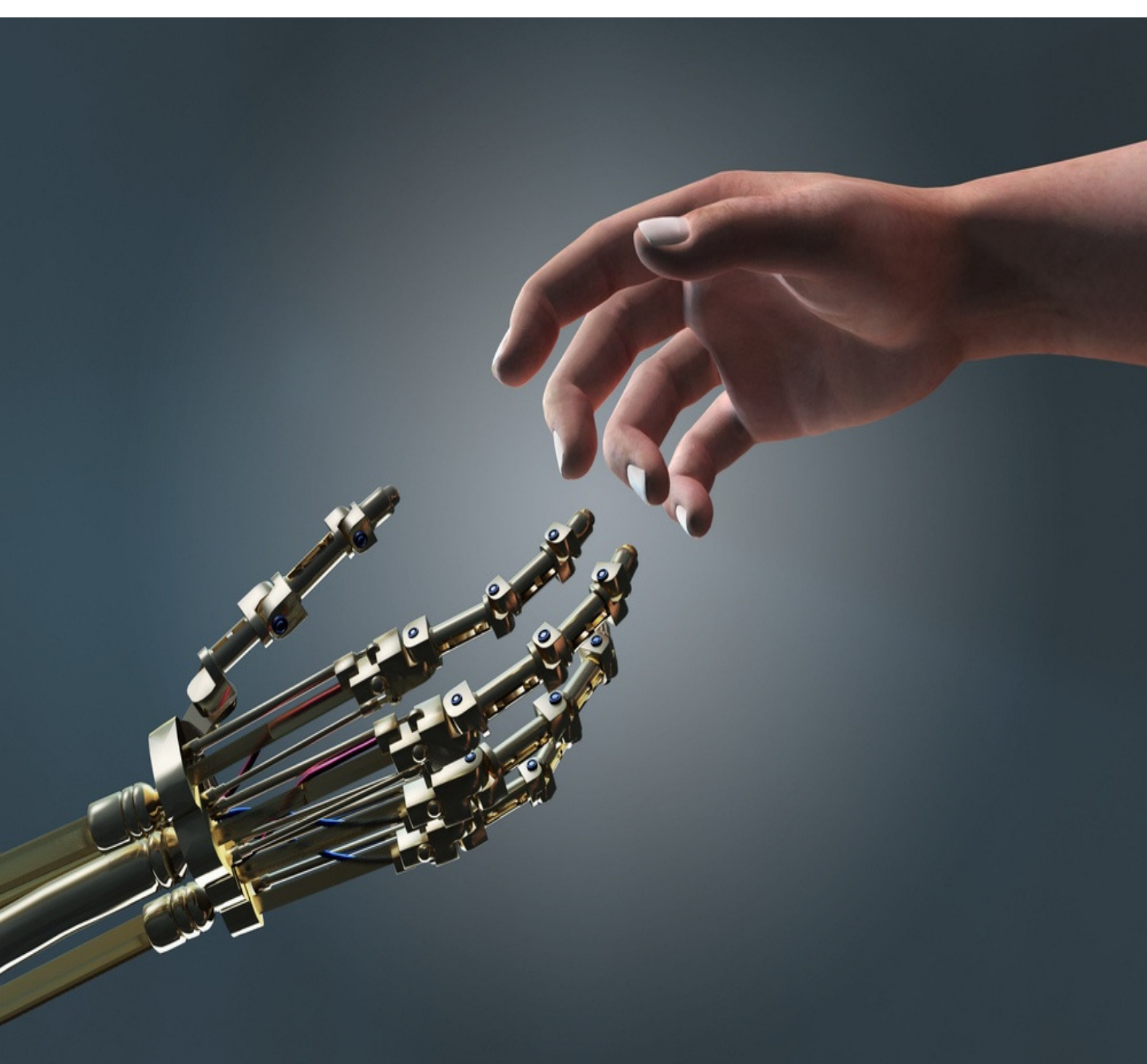
07.40 – 08.20	Breakfast	
	EXAMS – MCQ 40 marks (ONLINE on 8/06/2024 late evening)	
Simulation Station – 13 Scenarios (6 students in each group)		
08.35 – 09.05	Simulation Case I	Venkat Goyal
09.10 – 09.40	Simulation Case II	Pranay Oza, Ramanathan K R
09.45 – 10.15	Simulation Case III	Vivek Gupta Suneel Pooboni
10.15 – 10.35	TEA BREAK	
10.40 – 11.10	Simulation Case IV	Venkat Goyal
11.15 – 011.45	Simulation Case V	Pranay Oza, Ramanathan K R
11.55 – 12.25	Simulation case VI	Suneel Pooboni Vivek Gupta
12.30 – 13.00	Simulation Case VII	Arpan Chakraborty
13.10 – 13.45	Simulation Case VIII	
13.45 – 14.15	Simulation Case IX	
14.20 – 14.50	Simulation Case X	Venkat Goyal
14.55 – 15.25	Simulation Case XI	Pranay Oza
15.30 – 16.00	Simulation Case XII	Ramanathan K R K. Madhan Kumar
16.05 – 16.35	Simulation Case XII	Arpan Chakraborty
16.35 – 16.50	Validating Function & Group photo	



# Time Distribution of the course



	Content of course	Time Spent in Minutes						Total time in mins
		D1	D2	D3	D4	D5	D6	
1	Didactic Lectures	200	200	200	00	120	0	675 (11 hrs & 15 mins)
2	Central Demonstration	00	00	00	105	60	0	165 (2 hrs & 45 Mins)
3	Work station & Simulation session	00	00	00	405	315	360	1080 (18 hrs)
4	Lunch & Tea time	00	00	00	55	75	60	190 (3 hrs & 10 mins)
5	Question / answer & Recap time	50	65	65	15	15	15	105 (1 hr & 45 mins)
6	Total time	250	265	265	580	580	435	2210 (36 hrs & 50 mins)



**For details –  
Contact:**

**Dr Suneel Pooboni –**

09642562218

**Dr Venkat Goyal –**

9820321815 / 09223186500

**Dr Pranay Oza –**

09821214971 / 09223186518

**Venue – RIDDHI VINAYAK  
MULTISPECIALITY  
HOSPITAL  
NALLASOPARA (WEST)**

**Email:**

ecmosocietyofindia@hotmail.com

**Web:**

www.ecmosocietyofindia.com,

**Registration:**

**Doctors: Rs 18000**

**(Members : Rs 17000)**

**Paramedical: Rs 15000**

**(Members : Rs 14000)**

**ESOI Fellowship Student : Rs. 15000**

**ESOI Certificate Student : Rs. 13000**

**It Includes RED BOOK (6<sup>th</sup> Edition**

**ELSO – e version)**

**International delegates : \$300 (only**

**training course) \$ 350 – training**

**course with Master class**

**Master class (10<sup>th</sup> June) – Only**

**Master class Rs 5000, Master class**

**with training course – 3000 + training**

**course fees**

**Kindly fill the registration form online**

**from the above website**

**Registration Link :**

**[https://www.ecmosocietyofindia.com/Conference\\_Registration.php](https://www.ecmosocietyofindia.com/Conference_Registration.php)**

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