

# 18<sup>th</sup> ECMO Training Course



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



**Center of Excellence –  
Platinum – 9/2021 – 9/2024  
Gold – 8/2018 – 8/2021**

**ECMO INDIA  
2024  
MUMBAI**

**29 - 31 MARCH – VIRTUAL TALK  
5 – 7 APRIL – HANDS ON &  
SIMULATION**



**ECMO SAVES LIVES.....**

at....

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

**ECMO SOCIETY OF INDIA**

**ESOI**



# **18<sup>th</sup> ECMO training course ECMO society of India**

Presents

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

**On ECMO “**

**APRIL 2024**

**29 - 31 MARCH – VIRTUAL TALK**

**5 – 7 APRIL – HANDS ON & SIMULATION**

**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
- **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 29 - 31 March 2024 Virtual talks from 5 PM to 9 PM**
- **From 5 – 7 April 2024 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**

## 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 Samir Gami
- Dr Dipanjan Chatterjee

- Dr Poonam Malhotra
- Dr K Madhan Kumar
- Kapil Thakkar

## International Faculty

- Dr Suneel Pooboni
- Dr Lakshmi Raman
- Dr RAMANATHAN K R

# ESOI Training Course, Day 1, 29<sup>th</sup> March 2024, Friday

	Pre Course Test MCQ – 20 marks – ONLINE on 20/01/2024 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	Dipanjan Ch
17.45 – 18.05	History & statistics	Suneel Pooboni
18.10 – 18.30	ECMO – physiology	Dipanjan Ch
18.35 – 18.55	Type of ECMO - VA ECMO	Venkat Goyal
19.00 – 19.20	VV ECMO	Suneel Pooboni
19.25 – 19.45	Hybrid ECMO & Nomenclature	Pranay Oza
19.50 – 20.10	Cannulation	Vivek Gupta
20.15 – 20.35	Initiation & Monitoring	Nandkishore
20.40 – 21.00	Management	Rakesh V
21.05 – 21.25	ECMO organization	Ramanathan K R

## ESOI Training Course, Day 2, 30<sup>th</sup> March 2024, Saturday

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

# ESOI Training Course – Day 3, 31<sup>st</sup> March 2024, Sunday

17.00 – 17.15	Recap	
17.20 – 17.40	Surgical interventions during ECMO	Vivek Gupta
17.45 – 18.05	Role of Echo in ECMO	Poonam Malhotra
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
19.50 – 20.10	Paediatric respiratory ECMO	Indira Jayakumar
20.15 – 20.35	ECMO in sepsis	Vivek Gupta
20.40 – 21.00	Newer indication & future of ECMO	Venkat Goyal
21.05 – 21.25	Cardiac stunning – prevention & management	Venkat Goyal



# ESOI Training Course, Day 4, 5<sup>th</sup> April 2024, Friday

07.45 – 08.15	Registration & Breakfast	
08.30 – 08.45	Inauguration & Lamp Lightening	
08.45 – 09.00	Recap	Pranay Oza/ Venkat Goyal
9.00 – 10.00	Practical Session – Demonstration of Components, Circuit preparation & Circuit priming	Pranay Oza & Venkat Goyal
10.00 – 10.45	Practical Session – Demonstration of Initiation & Monitoring of ECMO	Pranay Oza & Venkat Goyal
10.45 – 11.15	Practical Session – Demonstration of Cannulation VV/ VA ECMO	Venkat Goyal & Pranay Oza
11.15 – 11.30	Tea Break	
11.30 – 14.00	Practical sessions (25 mins each)	
	Station I – Initiation of ECMO – Planning & strategy	Ramanathan KR
	Station II – Circuit preparation – selection of component & making circuit & calculation of priming volume	Nandkishore, Suneel Pooboni
	Station III – Circuit priming – priming volume & priming solution	Kapil Thakkar
	Station IV – Cannulation selection, site & Technic	Rakesh V
	Station V – Cannulation – Hands on VV/VA ECMO	Venkat Goyal, Vivek Gupta
	Station VI – Initiation & monitoring of ECMO – Hemodynamic changes (Simulation)	Pranay Oza
14.00 – 14.40	Lunch	
14.40 – 15.40	Simulation on Ambulance Transport scenario Simulation on Proning, Trial off VA ECMO	Pranay Oza & Venkat Goyal
15.45 – 17.15	Practical Session (30 mins each) Station I – Weaning, Trial off & weaning failure VV/ VA ECMO Station II – Transport on ECMO Simulation Station III – Proning on ECMO Simulation Station IV – Weaning, Trial off & weaning failure VV/ VA ECMO Station V – Transport on ECMO Simulation Station VI – Proning on ECMO Simulation	Rakesh V Nandkishore, Suneel Pooboni Ramanathan K R Venkat Goyal, Vivek Gupta Kapil Thakkar Pranay Oza
17.30 – 18.30	Practical Session – Demonstration of Management of complications	Pranay Oza & Venkat Goyal



# ESOI Training Course – Day 5, 6<sup>th</sup> April 2024, Saturday

## (Application of ECMO)

07.30 – 08.00	Breakfast	
08.00 – 08.15	Recap	
08.15 – 09.00	Panel discussion – Ethical Issues In ECMO, Panellist – Pooboni, Venkat Goyal, Vivek Gupta, Nandkishore	Arpan Chakraborty
09.00 – 11.00	Practical Session (40 mins each) Station I – Mechanical Complication – Power failure & Air Embolism Station II – Mechanical Complication – Pump failure Station III – Mechanical Complication – Oxygenator failure Station IV – Mechanical Complication – Power failure & Air Embolism Station V – Patient related Complications – Pump failure Station VI – Patient related Complications – Oxygenator failure	Kapil Thakkar, Ramanathan K R Nandkishore, Suneel Pooboni Rakesh V Venkat Goyal 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	

# ESOI Training Course – Day 6, 7<sup>th</sup> April 2024, Sunday (ECMO Simulation)

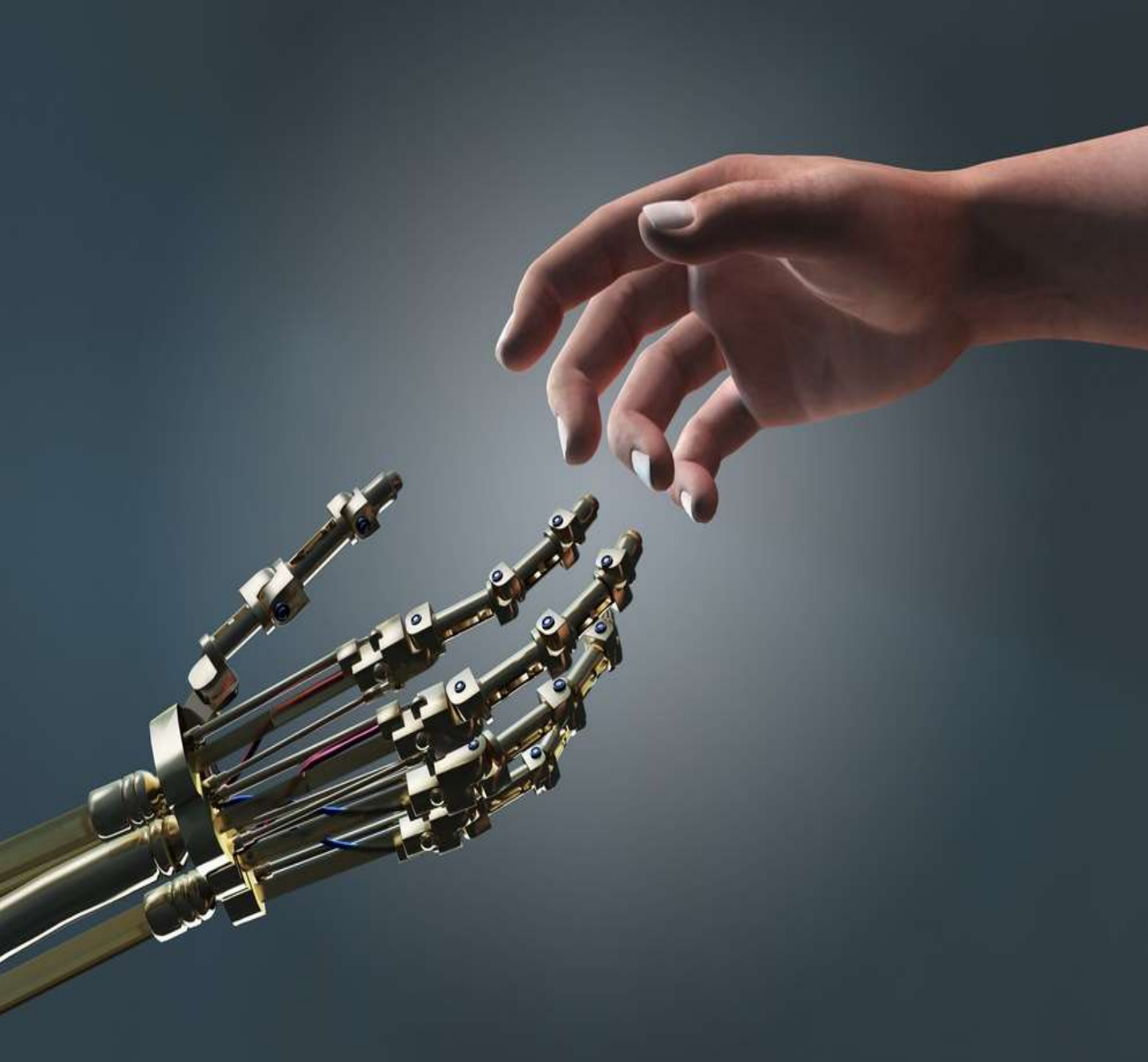
07.40 – 08.20	Breakfast	
	EXAMS – MCQ 40 marks (ONLINE on 27/01/2024 late evening)	
Simulation Station – 12 Scenarios (5 students in each group)		
08.35 – 09.05	Simulation Case I	Venkat Goyal Pranay Oza, Ramanathan K R
09.10 – 09.40	Simulation Case II	
		Vivek Gupta
09.45 – 10.15	Simulation Case III	Suneel Pooboni
		Indira Jayakumar
10.15 – 10.35	TEA BREAK	
10.40 – 11.10	Simulation Case IV	Venkat Goyal Pranay Oza, Ramanathan K R Suneel Pooboni Vivek Gupta Arpan Chakraborty
11.15 – 011.45	Simulation Case V	
11.55 – 12.25	Simulation case VI	
12.30 – 13.00	Simulation Case VII	
13.00 – 13.45	Lunch Break	
13.45 – 14.15	Simulation Case VIII	Venkat Goyal Pranay Oza Ramanathan K R K Madhan kumar Suneel Pooboni Arpan Chakraborty
14.20 – 14.50	Simulation Case IX	
14.55 – 15.25	Simulation Case X	
15.30 – 16.00	Simulation Case XI	
16.05 – 16.35	Simulation Case XII	
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

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)

**ECMO SOCIETY OF INDIA**