



# News Letter

## ECMO SOCIETY OF INDIA

Editor:



Dr. Arpan Chakraborty



Dr. Kapildev Thakkar

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# ECMO SOCIETY OF INDIA - NEWS LETTER

## ESOI – Committees & Wings:

### EXECUTIVE COMMITTEE OF ESOI 2024-25

#### Board of Directors

No.	Dr. Name	Email ID	Contact No.
1	Dr Suneel Pooboni	poobonisk@hotmail.com	9642562218
2	Dr Venkat Goyal	venkatgoyal@hotmail.com	9820321815
3	Dr Pranay Oza	drpranay.oza@gmail.com	9821214971
4	Dr Vinod Singh	vinodksingh66@yahoo.co.in	9810301011
5	Dr Arpan Chakraborty	arpan1977ster@gmail.com	9432062377
6	Dr Vivek Gupta	dr_vivekg@yahoo.com	9815398993

#### Past President 2024 – 2025

No.	Dr. Name	Email ID	Contact No.
1	Dr Pranay Oza	drpranay.oza@gmail.com	09821214971

#### President 2024– 2025

No.	Dr. Name	Email ID	Contact No.
1	Dr Vivek Gupta	dr_vivekg@yahoo.com	9815398993

#### President Elect 2024– 2025

No.	Dr. Name	Email ID	Contact No.
1	Dr Dipanjan Chatterjee	drdipanjan@gmail.com	09051420205

#### General Secretary 2024– 2025

No.	Dr. Name	Email ID	Contact No.
1	Dr Dhaval Naik		

#### Joint Secretary (Nomination) 2024 – 2025

No.	Dr. Name	Email ID	Contact No.
1	Dr Vinayak Patki	patkivinayak@gmail.com	9822119314

#### Treasurer - 2024 – 2025

No.	Dr. Name	Email ID	Contact No.
1	Arvind Sharda	arvind.sharda@yahoo.co.in	09815500793



# ECMO SOCIETY OF INDIA - NEWS LETTER

## Zonal Members – 4 members, 1 year 2024 – 2025

No.	Dr. Name	Email ID	Contact No.
1	East – Nilanchal Chakraborty		
2	West – Dr Samir Patel	patelsamirb@hotmail.com	8141877077
3	North – Dr Rajeev Kumar Dubey	rajeevdubeyrk@gmail.com	9839927283
4	South – Dr Sanjay Orathi Patangi	sanjaysanjay_op@rediffmail.com	9880978602

## Standing Committee of ESOI - 2023-2026

No.	Dr. Name	Email ID	Contact No.
<b>EDUCATION &amp; SIMULATION COMMITTEE</b>			
1	Dr Vivek Gupta	dr_vivekg@yahoo.com	9815398993
2	Dr Jumana Haji	drjyhaji@gmail.com	
3	Dr Shikha Sanchan		
4	Dr Balasubramanyam		
<b>JOURNAL COMMITTEE</b>			
5	Dr Vinod Singh	vinodksingh66@yahoo.co.in	9810301011
6	Dr Saurabh Taneja	dr.saurabhtaneja@gmail.com	
<b>COMMUNICATION COMMITTEE</b>			
7	Dr Arpan Chakraborty	arpan1977ster@gmail.com	9432062377
8	Dr Kapildev Thakkar	drkapilthakkar001@gmail.com	9879547024
9	Dr Kalyan K		
10	Dr Srivatsanagachandan		
<b>RESEARCH, DATA &amp; GUIDELINE COMMITTEE</b>			
11	Dr Pranay Oza	drpranay.oza@gmail.com	9821214971
12	Dr Rakesh V	rakesh.mbbs2004@gmail.com	9741000280
13	Dr Deeksha Gaur		
14	Dr Adarsh Singam		
15	Dr Madhumithra		
16	Dr Atiharsh Agrawal		

## WINGS OF ESOI

No.	Dr. Name	Email ID	Contact No.
<b>ACADEMIC WING 2019 – 2024</b>			
1	Dr Suneel Pooboni	poobonisk@hotmail.com	9642562218
2	Dr Venkat Goyal	venkatgoyal@hotmail.com	9820321815
<b>PAEDIATRIC WING 2023 – 2026</b>			
3	Dr Indira Jayakumar	indirajayakumar@yahoo.com	9710925667
4	Dr Nandkishore		
5	Dr Shivakumar	drshiv_2000@yahoo.com	
6	Dr Rachit Mehta		
7	Dr Lalitha		
<b>ALLIEND HEALTH WING 2023 – 2026</b>			
8	Deblal Pandit	perf_pandit@yahoo.co.in	9831160077
9	Manjush	manjushnair@hotmail.com	
10	Drishya Paul		
11	Deepak Shrivatsava		



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## STATE COMMITTEE OF ESOI 2023-25

No.		Dr. Name	Email ID	Contact No.
<b>Maharashtra 2023 – 2025</b>				
1	Chairman	Vijay Shetty	vijay.shetty@fortishealthcare.com	9821076279
2	Secretary	Nilesh Mahale	nilesh.mahale0@gmail.com	9082919254
3	Executive Member	Vinayak Patki	patkivinayak@gmail.com	9822119314
4	Executive Member	Vaibhav Gopaldas Agrawal	drvaibhavagrawal@gmail.com	9527190727
5	Executive Member	Prashant Sakhavalkar	drpsrgs123@gmail.com	8830552009
<b>Gujarat 2023 – 2025</b>				
1	Chairman	Dipak Viradia	drdipakviradia@gmail.com	9825640875
2	Secretary	Haresh A Vastarpara	h.vastarpara@gmail.com	9825084297
3	Executive Member	Vishal Sardhara	dr.vishal.synergy@gmail.com	9016559532
4	Executive Member	Mahesh Gagajibhai Chovatia	dr.mahesh.patel33@gmail.com	8866360744
5	Executive Member	Mrugnak Bhavasar		
<b>Tamil Nadu 2023 – 2025</b>				
1	Chairman	K. Madhan Kumar	drkmkms@yahoo.com	9841389689
2	Secretary	Ramesh Varadharajan	jipmerramesh@gmail.com,	9943480966
3	Executive Member	Vasanth Kumar	vasanthbabblu@gmail.com	9582886229
4	Executive Member	B Sivaraman	jrmedshiva28@gmail.com	9489021921
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<b>Rajasthan 2023 – 2025</b>				
1	Chairman	Ravi Sharma	dr Ravisharma@gmail.com	7023717773
2	Secretary	Kishore Mangal	drkishoremangal@gmail.com	9982212486
3	Executive Member	Vivek Bhargava	drvivekx@gmail.com	9414158921
4	Executive Member	Pramod Sarwa	dr.pramod.sarwa@gmail.com	7073618151
5	Executive Member	Vaibhav Bhargava	drvaibhav79@gmail.com	9928787788
<b>Andhra &amp; Telangana 2023 – 2025</b>				
1	Chairman	Kishore Jayanthi	drpaedkish@gmail.com	9000359080
2	Secretary	Rakesh V	rakesh.mbbs2004@gmail.com	9703786693
3	Executive Member	J Vamshi Krishna	drvamshikrishnaj@gmail.com	9603080181
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5	Executive Member	Sricharan Goda	sricharangod@gmail.com	9849898019
6	Executive Member	Niranjan Panigrahi	panigrahi.niranjana@gmail.com	8179654042
7	Executive Member	Dharanindra Moturu	newgenmedico@outlook.com	9686347350
<b>Kerala 2023 – 2025</b>				
1	Chairman	Sajith Sulaiman	saj6809@gmail.com	9447730309
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4	Executive Member	Mahesh Balakrishna	Mahi.balakrishna@gmail.com	9207226555
5	Executive Member	Anoop		
<b>New Delhi 2023 – 2025</b>				
1	Chairman	Sanjeev Mittal	drsmittal@gmail.com	9999999299
2	Secretary	Saurabh Taneja	dr.saurabhtaneja@gmail.com	9811538315
3	Executive Member	Anand Kumar Jha	anandjha531@gmail.com	9871218448
<b>Bihar &amp; Jharkhand 2023 – 2025</b>				
1	Chairman	Kishore Jhunjunwala	kishore@medanta.org	8084364904
2	Secretary	Prabhat Kumar	prabhat.k.dr@gmail.com	9769849031
3	Executive Member	Shubhlesh Kumar	shubhlesh@gmail.com	9634291248
4	Executive Member	Neeraj Kumar	drneerajk@aiimspatna.org	8210104972
5	Executive Member	Rajesh Raushan	dr Rajeshraushan@gmail.com	9051093251



# ECMO SOCIETY OF INDIA - NEWS LETTER

## Message from the President:



Dear Friends,

ECMO society of India has contributed significantly in creating interest in physicians about this novel technology, teaching and training of interested physicians and expansion of this life saving modality in ICUs. The technology is rapidly changing to ensure safe ECMO initiation, minimizing complications during prolonged ECMO and improving outcome. Keeping us update with recent development is the current priority and goal for optimizing the outcome with resource limited situations like us. ECMO society of India is currently working to create an affordable ECMO program without compromising quality across the country with outcome at par with international standards. Another important responsibility on our shoulder is to develop guidelines as per Indian scenario/ diseases which are uncommon in western world. This is only possible if we collect our own data and publish it to generate sufficient evidences. ECMO society of India is keen to promote, participate and assist in the relevant research activities related with extracorporeal therapies with focus on ECMO. Since the patients with ECMO support may need other extracorporeal therapies to support other organs so we need to expand our horizon of knowledge and as an initiative ESOI is keen to start a course on comprehensive extracorporeal therapies along with ECMO.

Our state branches are actively involved in the academic activities however we focus to create state branches in the remaining states.

Our current focus is to create a roadmap for improving ECMO practices, expanding training opportunities or fostering collaboration within the global ECMO community.

We seek support and contribution not only from executive body but from every member of ESOI to contribute academically and share the ideas to expand ECMO training, awareness and expanding affordable ECMO therapy for all. We also urge to build our strength by encouraging clinicians, perfusionists, nurses and other allied specialitiest to join ESOI.

Dr.Vivek Gupta

President ESOI



# ECMO SOCIETY OF INDIA - NEWS LETTER

## Puzzle ECMO

A 55-year-old patient, after ECPR, showing NIRS values, lower in Right leg (arterial cannulation limb) and higher in non-cannulated limb.

What should be the next step?



Answer to be seen on page no. 17



# ECMO SOCIETY OF INDIA - NEWS LETTER

## EDUCATION AND AWARENESS PROGRAMM BY ESOI in 2023 - 2024:

ELSO endorsed training courses.

**18th National ECMO training course & 6<sup>th</sup> ELSO endorsed - ECMO society of India Presents "A Six days (Hybrid – 3 days Virtual & 3 days onsite) Interactive learning sessions on ECMO" March 2024, 29 - 31 March– Virtual talk & 5 – 7 April – Hands on & stimulation, Venue – Riddhi Vinayak Multispecialty Hospital Nallasopara (west), Mumbai. Course was attended by 65 participants, predominantly were Medicos (94%, out of which 54% were Intensivist, 23% paediatric Intensivist, 5% Pulmonologist, 6% Cardiac Anaesthesia, 3% CVTS & 3% Emergency Medicine) while remaining were paramedics (6% paramedical)**





# ECMO SOCIETY OF INDIA - NEWS LETTER

**19th National ECMO training course & 7th ELSO endorsed - ECMO society of India Presents "A Six days (Hybrid – 3 days Virtual & 3 days onsite) Interactive learning sessions on ECMO" June 2024, 1 – 4 June – Virtual talk & 7 – 9 June – Hands on & stimulation, Venue – Riddhi Vinayak Multispecialty Hospital Nallasopara (west), Mumbai.**





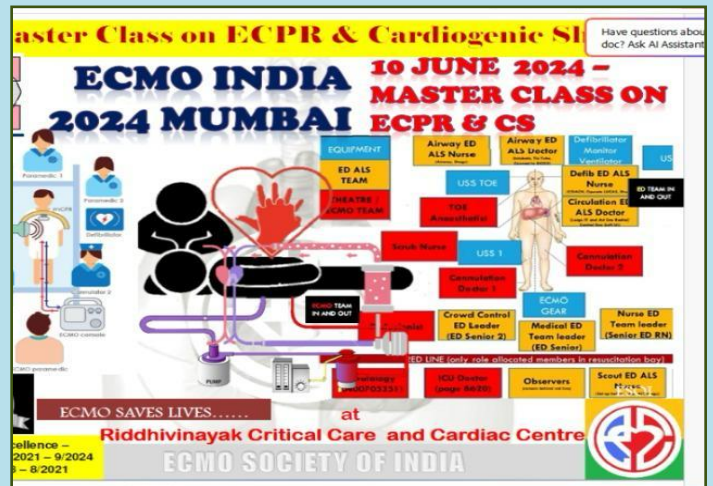


# ECMO SOCIETY OF INDIA - NEWS LETTER

## Master Class on ECPR & MCS – 1<sup>st</sup> Time in India:

Master class was conducted during 19<sup>th</sup> ECMO training course at Ridhi Vinayak Critical Care and Cardiac Centre, Mumbai. On 4<sup>th</sup> June 2024 was virtual sessions of Master Class on ECPR & MCS. On 10<sup>th</sup> June 2024 was demonstration and hands on off Master Class on ECPR & MCS. Delegates were divided into 5 Teams & after initial Demo of how to do ECPR by faculty, each team performed ECPR on 5 different mannequins (including Obese & Paediatric) by themselves at different location (ER, MICU, PICU, Wards & Cath Lab) at the same time. ECPR call to ECMO flow time was 16 mins done by faculty (during Demo) & was 30 – 40 mins by delegates. (Note One team (in Cath Lab) done ECPR with Roller Pump & One team (in MICU) done ECPR on morbidly Obese mannequin). This was followed by combined debriefing with all team emphasizing the advantage & difficulties of ECPR in different locations.

Link to see glimpses: <https://youtu.be/SOS1t0xMcP4>





# ECMO SOCIETY OF INDIA - NEWS LETTER

**20th National ECMO training course & 8<sup>th</sup> ELSO endorsed - ECMO society of India Presents "A Six days (Hybrid – 3 days Virtual & 3 days onsite) Interactive learning sessions on ECMO" 29 - 30 September, 1 October 2024 – Virtual talk & 4 - 6 October 2024 – Hands on & stimulation, Venue – Riddhi Vinayak Multispecialty Hospital Nallasopara (west), Mumbai. Course was attended by 63 participants, predominantly were Medicos (79%, out of which 59% were Intensivist, 6% paediatric Intensivist, 3% Pulmonologist, 2.3 % Cardiac Anaesthesia, 2.3 % CVTS & 2% Emergency Medicine) while remaining were paramedics (21 % paramedical)**





# ECMO SOCIETY OF INDIA - NEWS LETTER

## ECMO Workshops and Outreach Programs

### ECMO Workshops:

Two days' workshop on ECMO was held at Kolkata by Medica Super Speciality Hospital. On 4<sup>th</sup> May 2024 was online session and on 5<sup>th</sup> May 2024 was offline workshops.



**ECMOKIDSCON:** Paediatric ECMO training program was conducted at Amrita Hospital Kochi. From 3<sup>rd</sup> to 6<sup>th</sup> June 2024 was online session and 8<sup>th</sup> June 2024 was in person workshop. Amrita Hospital, Kotchi conducted the training in collaboration of ESOI and Children's Heart Link from the US. Around 120 doctors, perfusionists and nurses involved in ECMO patient care received training.

### CMO Outreach Programs:

On 19<sup>th</sup> April 2024, an Outreach program was done by Andhra & Telangana chapter of ESOI in collaboration with ISCCM, Vijaywada chapter: Topic was – Bedside decision for ECMO-Cannulation which patient and when. The speaker was Dr.Rakesh V.



On 4<sup>th</sup> May 2024, an Outreach program was done by Gujarat chapter of ESOI in collaboration with AMACON at Sterling Hospitals, Gujarat: Topic was – Extracorporeal Therapies. The speakers were Dr.Kushal Shah and Dr.Kapildev Thakkar.



# ECMO SOCIETY OF INDIA - NEWS LETTER

On **9<sup>th</sup> May 2024**, an Outreach program was done by Gujarat chapter of ESOI in collaboration with Sterling Hospitals and IMA Palanpur, Gujarat: Topic was – Introduction of ECMO. The speaker was Dr.Kapildev Thakkar.



## CRITICON 2024 in Lucknow 26/9/2024 ECMO Workshop:



## ECMO Awareness Programs:

ECMO awareness activity was done on **21<sup>st</sup> July, 2024** by Rajasthan Chapter of ESOI at Santokba Durlabhji Memorial Hospital (SDMH) under leadership of Dr.Ravi Sharma and Dr.Kishore. The speaker was Dr.Suneel Pooboni from the UAE, delivered a lecture on the ECMO journey, was attended by around 70 professionals from different specialities.





# UPCOMING ACADEMIC EVENTS

## 21TH ECMO TRAINING COURSES

January 2025

3<sup>rd</sup> – 5<sup>th</sup> JANUARY VIRTUAL TALK

9<sup>th</sup> - 11<sup>th</sup> JANUARY HANDS ON & SIMULATION

Followed by Master Class on ECPR & MCS

6<sup>th</sup> JANUARY 1<sup>st</sup> Advanced Paediatric Workshop (VIRTUAL)

12<sup>th</sup> JANUARY HANDS ON

*Riddhi Vinayak Multispecialty Hospital, Nallasopara (W)*

6 days Interactive Learning Sessions on ECMO.

**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.....  
 at... Riddhivinayak Critical Care and Cardiac Centre  
 ELSO endorsed Simulation based ECMO training course  
 Center of Excellence - Platinum - 2021 - 12/2024  
 Gold - 2018 - 8/2021  
 ELSO ENDORSED COMPREHENSIVE SIMULATION - BASED ECMO COURSE  
 ESOCIETY OF INDIA

**2<sup>nd</sup> Master Class on ECPR & Cardiogenic Shock**  
 ECMO society of India  
 Presents  
 "A Two days (Hybrid - 1 day Virtual & 1 day onsite) Interactive learning sessions On ECPR & CS"  
 January 2025  
 6 January - Virtual Talk  
 12th January - Hands on ECPR & CS  
 Venue - Riddhi Vinayak Multispecialty Hospital, Nallasopara (west), Mumbai, India



# ECMO SOCIETY OF INDIA - NEWS LETTER

## UPCOMING ACADEMIC EVENTS

### NATIONAL ECMO CONFERENCE AT KOLKATA ON 16/17 MAY 2025



ECMO SOCIETY OF INDIA



Cordially invites you to the

14<sup>th</sup> ANNUAL NATIONAL CONFERENCE



May 15<sup>th</sup> & 16<sup>th</sup> | Workshops

+91 9874752761

May 17<sup>th</sup> & 18<sup>th</sup> | ECMO Conference

ecmoindia2025@gmail.com

Place | Raajkutir, Kolkata

www.ecmoindia2025.org



### 1<sup>ST</sup> ADVANCED ECMO PAEDIATRIC WORKSHOP IN INDIA

**1<sup>st</sup> Advanced Paediatric Workshop**

**ECMO INDIA 2025 MUMBAI**

6 JANUARY – VIRTUAL TALK  
12 JANUARY – PAEDIATRIC ECMO SIMULATION

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

ECMO SAVES LIVES.....

at... Riddhivinayak Critical Care and Cardiac Centre

ESOI

ECMO SOCIETY OF INDIA



# ECMO SOCIETY OF INDIA - NEWS LETTER

## CASE:

A 9 years old girl presented with short febrile illness associated with coughing & difficulty in breathing alone with rapidly progressive hypoxemia. She needed intubation & ventilator support, noted massive pulmonary hemorrhage. Her CT thorax S/O diffuse alveolar hemorrhage. He was kept on HFOV. Despite of all conventional aggressive measure – persistent hypoxemia was noted. Eventually V-V ECMO was initiated with family consent. She was diagnosed Sero-negative vasculitis and managed as per vasculitis protocol. Needed multiple blood & its products. She responded to Plasmapheresis. Gradually hemodynamics and hypoxia recovered and she was weaned from V-V ECMO support on rest ventilator settings. After 1 month of hospitalization, she was successfully discharged home.



**Team:** Dr Vishal Sharadhara, Dr Khanjan Shah, Dr Kapildev Thakkar

**Quiz Answer (of Page No 4):** Limb ischemia is common after arterial cannulation during ECPR. Even with a lesser size of arterial cannulas, it can happen. So, after the flow is established, we should put a distal perfusion cannula (DPC) within 4 hours, either percutaneously under USG guidance or by surgical cut-down and to be connected to the side connector of the arterial cannula as soon as possible. This will keep both lower limbs equally perfused.

As in ECPR time is an essence, to decrease Low flow time & the next priority is to evaluate cause & treat it so as to recover heart at earliest. DPC can be deferred for 4 hours but it should not be further delayed than that.



# ECMO SOCIETY OF INDIA - NEWS LETTER

## ECMO INDIAN DATA 2024

### ECMO INDIA STATISTICS

No of Institute participated (data submission) – 17, most of them submitted data from 2021 onwards except for 3 who submitted data from 2010

Overall 591 cases reported from 2010 to 2024 with overall survived ECLS 41% & Survived to discharge 37%

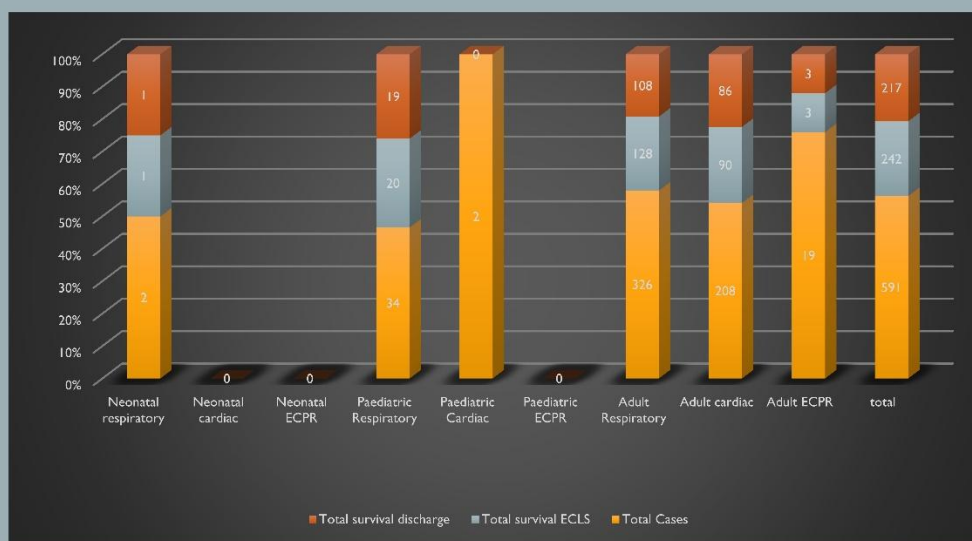
Maximum cases reported are Adult respiratory ~ 55% followed by adult cardiac ~ 35% followed by Paediatric respiratory ~ 6% followed by adult ECPR ~ 3%.

Neonatal respiratory & Paediatric cardiac cases are less than 0.5% while no cases reported of neonatal cardiac & neonatal & Paediatric ECPR

Survival was seen maximum in Paediatric respiratory ~ 59% followed by neonatal respiratory 50%, followed by adult cardiac 43% followed by adult respiratory 39% followed by adult ECPR ~ 16%

Around 45% of the cardiac ECMO cases were secondary to Aluminum phosphide poisoning with survival rate ~ 56%

Detailed analysis in next issue



DR Pranay Oza





# ECMO SOCIETY OF INDIA - NEWS LETTER

## India Total ECMO cases

Type of support	Total Cases	Total survival ECLS	%	Total survival discharge	%	% of total cases
Neonatal respiratory	2	1	50	1	50	0.34
Neonatal cardiac	0	0	#DIV/0!	0	#DIV/0!	0.00
Neonatal ECPR	0	0	#DIV/0!	0	#DIV/0!	0.00
Paediatric Respiratory	34	20	58.82	19	55.88	5.75
Paediatric Cardiac	2	0	0.00	0	0.00	0.34
Paediatric ECPR	0	0	#DIV/0!	0	#DIV/0!	0.00
Adult Respiratory	326	128	39.26	108	33.13	55.16
Adult cardiac	208	90	43.27	86	41.35	35.19
Adult ECPR	19	3	15.79	3	15.79	3.21
Total	591	242	40.95	217	36.72	

DR Pranay Oza



## Stay Connected with ESOI

- ESOI Websites:  
[www.ecmosocietyofindia.com](http://www.ecmosocietyofindia.com)  
[www.esoi-courses.com](http://www.esoi-courses.com)
- MEMBERSHIP FORM: Can do registration using below link:  
[https://www.ecmosocietyofindia.com/ESOI\\_Membership.php](https://www.ecmosocietyofindia.com/ESOI_Membership.php)
- ELSO Endorsed Comprehensive Simulation based ECMO Course: Registration using below link  
[https://www.ecmosocietyofindia.com/Conference\\_Registration.php](https://www.ecmosocietyofindia.com/Conference_Registration.php)
- Institute Membership Form link: Institutional membership is free  
[https://www.ecmosocietyofindia.com/ESOI\\_instituteform.php](https://www.ecmosocietyofindia.com/ESOI_instituteform.php)
- Data Collection Form link: Submit your data – Basic & Advance  
[https://www.ecmosocietyofindia.com/Ecmo\\_Datasheet.php](https://www.ecmosocietyofindia.com/Ecmo_Datasheet.php)
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- Fellowship & Certificate course enrollment link  
<https://esoi-courses.com/FellowshipBrochureForm.php>
- Send details of your CME programs with 2/3 photographs for this newsletter contact  
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- Connect with us on twitter  
@esoi\_india  
Twitter Link: [https://twitter.com/esoi\\_india](https://twitter.com/esoi_india)



## UPDATES ON RESEARCH AND Guidelines Activities of ESOI:

Ongoing activities of the societies are:

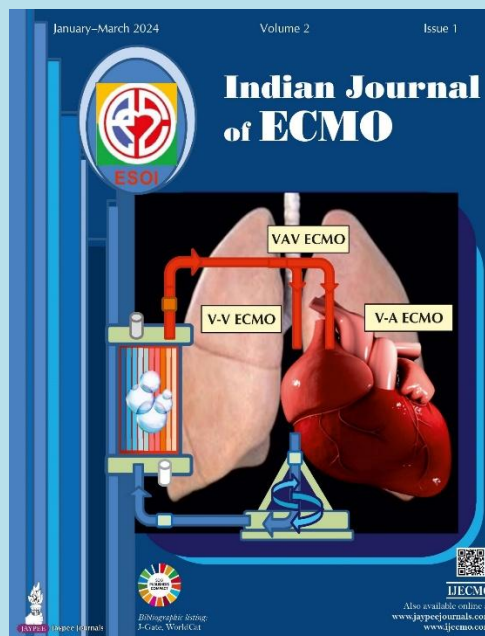
- Guidelines for Toxicology & ECMO – Primary Investigator Vivek Gupta & Pranay Oza
- Guidelines for ECCO2R – Primary Investigator Arpan Chakraborty
- Guidelines for Cardiogenic Shock & Shock team – Primary Investigator Venkat Goyal & Pranay Oza
- Guidelines for Paediatric Respiratory ECMO – Primary Investigator Suneel Pooboni

If you want to get associated with any of the projects kindly send your contact details with the project name (which you want to get associated) on

[ecmosocietyofindia@hotmail.com](mailto:ecmosocietyofindia@hotmail.com), [drpranay.oza@gmail.com](mailto:drpranay.oza@gmail.com), WhatsApp no. 9821214971

Send your reviews/ feedback/ Suggestions about the newsletter on WhatsApp no. 9432062377, 9879547024 or [arpan1977ster@gmail.com](mailto:arpan1977ster@gmail.com), [drkapilthakkar001@gmail.com](mailto:drkapilthakkar001@gmail.com)

### Indian Journal of ECMO:



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November 2024.pdf



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