

NATIONAL EXTRAÇORPOREAL MEMBRANE OXYGENATION

MALAYSIAN CARDIOTHORACIC ANAESTHESIOLOGY AND PERFUSION SOCIETY

"ECMO: Breakthroughs, Best Practices and Beyond"

2nd - 4th OCTOBER 2025 Le MERIDIEN PUTRAJAYA

co-organised with



endorsed by





MALAYSIAN SOCIETY OF ANAESTHESIOLOGISTS

CARDIOTHORACIC ANAESTHESIOLOGY & PERFUSION

WELCOME SPEECH



President Malaysian Cardiothoracic Anaesthesiology & Perfusion Society (MASCAP)

Dear Colleagues,

It is with great enthusiasm that we welcome you to the 2nd NECMO Conference: Breakthroughs and Beyond, to be held from October 2–4, 2025, at Le Meridien Hotel.

This year's conference is dedicated to those at the heart of ECMO care — cardiac anaesthesiologists, perfusionists, intensive care nurses, intensivists, and the entire multidisciplinary team whose expertise and dedication make life-saving interventions possible every day.

Building on the success of our inaugural event, the 2025 edition will delve deeper into the evolving landscape of ECMO through advanced clinical practices, teambased simulations, real-world case discussions, and the latest innovations in technology and patient management.

This is more than a conference — it's a platform to connect, learn, and collaborate across disciplines. Whether you're at the bedside, in the OR, or behind the circuits, your role is essential — and this program is designed with you in mind.

We look forward to seeing you in October as we push the boundaries of what's possible in ECMO, together.

Warm regards,

Dato Dr Jahizah Hassan President Malaysian Cardiothoracic Anaesthesiology & Perfusion Society

Organizing Chairman

Assalamualaikum wbt and warm greetings. With great honour and immense pride, I welcome you to the 2nd National Extracorporeal Membrane Oxygenation (NECMO) Conference.

As we know, the successful organization of the 1st NECMO in 2023 has marked a significant milestone in the landscape of critical care in Malaysia. The conference was met with overwhelming participation, positive feedback, and strong multidisciplinary engagement, clearly reflecting the growing interest and commitment towards advancing ECMO practices in our healthcare system. That momentum has brought us here today, to the 2nd NECMO, which we believe will become a catalyst for even greater transformation.

This year, we take a bold step forward. While continuing to highlight the crucial roles of physicians and other stakeholders, the 2nd NECMO shines a spotlight on a vital yet often underappreciated pillar of ECMO team — our nurses & Perfusionists. They are the heartbeat of ECMO management & care, and their knowledge, vigilance, and clinical judgement are indispensable. This conference aims to strengthen their presence, empower their voice, and elevate their role within the ECMO team.

At its core, the NECMO series is not merely about lectures or presentations — it is about building a vision. A vision to advancing ECMO services in Malaysia, making them more accessible, efficient, and aligned with international standards. We aspire to see Malaysia's ECMO capabilities evolve into a highly coordinated, technology-driven, and evidence-based service, one that rivals leading ECMO centers globally.

On behalf of the Malaysian Society of Cardiothoracic Anesthesiology & Perfusion (MASCAP), I would like to extend my deepest appreciation to the Scientific Committee, led by Dr Hasmizy and our local Organizing committee for their best efforts and dedication in making this 2nd NECMO a total success. Tremendous gratitude also to Ministry of Health (MOH) Malaysia and medical industry for the unwavering support given to MASCAP in organizing this noble prestigious conference

May this conference inspire you, challenge your perspectives, and ignite meaningful conversations. Let this be more than just an event — let it be a movement.

Thank you, and I wish all of you a fruitful, engaging, and memorable experience at the 2nd NECMO.

Dato' Dr Norly Binti Ismail
Organizing Chairman
2nd National Extracorporeal Membrane Oxygenation Conference

Scientific Chairman

The warmest welcome to all delegates attending the 2nd National Extracorporeal Membrane Oxygenation Conference 2025 from 2nd to 4th October 2025 at Le Meridien Putrajaya. It is a great pleasure to have the Malaysian Cardiothoracic Anaesthesiology and Perfusion Society (MASCAP) host this event for the second time.

Our theme for this year, "ECMO: Breakthroughs, Best Practices and Beyond," is more than just a title; it is our guiding principle. It reflects our commitment to not only mastering the current standards of care but also to embracing the future of this life-saving technology. We will explore the latest breakthroughs that are reshaping the field, consolidate our understanding of best practices to ensure optimal patient outcomes, and dare to look beyond the horizon at the future possibilities that lie ahead.

Over the next three days, you will be immersed in a comprehensive scientific program meticulously crafted for doctors, perfusionists and nurses. We are proud to feature six plenaries, 15 symposia, two dedicated lunch symposia, and workshops providing a wide array of topics and perspectives. The knowledge and expertise you will gain are invaluable, and the opportunities for networking with fellow colleagues and experts will be transformative.

Our success is driven by the calibre of our speakers. We are privileged to have eight distinguished overseas speakers joining us, bringing their global insights and experiences. They will be complemented by 26 of our own leading local experts, whose dedication and contributions have been instrumental in advancing ECMO care here in Malaysia.

I would like to extend my heartfelt thanks to the organizing committee, our generous sponsors and finally the Ministry of Health Malaysia for their unwavering support. To all the delegates, I encourage you to participate actively, engage in lively discussions, and forge new professional relationships. Let us seize this opportunity to learn from one another, challenge our assumptions, and collectively push the boundaries of what is possible in ECMO.

Thank you once again for your presence. We look forward seeing you at the event.

Thank you.

Dr Hasmizy Muhammad Scientific Chairman 2nd National Extracorporeal Membrane Oxygenation Conference

FACULTY

INTERNATIONAL SPEAKERS

ABDURRAHMAAN ALI ELBUZIDI (QATAR)
AHMED LABIB SHEHATTA (QATAR)
ALHADY ALFIAN YUSOF (QATAR)
FAROOK AHMAD (UK)
KUN ARIFI ABBAS (INDONESIA)
NBAL MOHAMMED SHPAT (QATAR)
SIMON SIN WAI CHING (HONG KONG)
THOMAS MULLER (GERMANY)

LOCAL SPEAKERS

AHMAD FAIS ABU SEMAN MOHD FITRY ZAINAL

ANDY SHERMAN KHUNG MOHD IZWAN AZMI MUDA

ANI SURAYA ABDUL GHANI MOHD KHAIRUL ANWAR A. RAHIM

ARIFFIN MARZUKI MOKHTAR NORHAYATI ANUAR

AZMIZA MAHARANI NG YEW EE

HASLAN GHAZALI SUNETA SULAIMAN

HASMIZY MUHAMMAD THAVANI THAVARAJASINGAM

ISQANDAR ADNAN MUHAMMAD FIKRI ABDUL HALIM

JUSMIDAR ABDUL JAMIL MUHAMMAD HELMI LOKMAN

KAMILAH MUHAMMAD HAFIDZ NURRUL HAFIZAH YUSOF

KHAIRUNNADIAH KAMARUZZAMAN SYAFIQ SOFIYAN

LEE KOK TONG VATANA V SUNDAR

MOHAMAD HANAFI MOHD YONG CHOW YEN

COMMITTEE





LOCAL ORGANIZING COMMITTEE

ADVISOR JAHIZAH HASSAN

> **CHAIRPERSON** NORLY ISMAIL

DEPUTY CHAIRPERSON ZUHRAH ZAKARIA

SECRETARY SANTIHAFIFAH ABDUL ASIS FARAH FARHANA YAHAYA

TREASURER RAJA NUR MAHIRAN RAJA KADIR

WORKSHOP SECRETARIATE

MUHAMMAD ALFAH HASWANI NURUL IMAN ZULKEFLI

GILBERT CHEN YAN JU NURIN BADRINA BAHARUDIN

MUHAMMAD FIKRI ABDUL HALIM NUR AMALINA SAIDAN MUHAMMAD SYAHHERANS SUFFIN NURMITHALI ZAINAL

MUHAMMAD SYAFIQ EFFENDI RAMLI ZARINA NATASHA SHIR BADAR KHAN

FACULTY EXHIBITION

LEE KOK TONG MOHD SHAFERO MOHD ZAHID

NG YEW EWE MOHD SHAHRULNIZAL MOHD SAAD

MOHD IZWAN AZMI MUDA HERMI SAFIAN

AUDIO-VISUAL / PUBLICITY LOGISTICS

HASLAN GHAZALI MUHAMMAD HELMI LOKMAN

ANWARUL ARIFIN AHMAD MOHD HAMIDY ZAINOL RASHID

AKMAL FAIZ RAZALI ROMMY BOWIE VINCENT

MUHAMMAD NABIL AMIN NOR AZ AZLAN MOHAMAD FARDI OTHMAN

MOHD FADZLI MD DAUD

SOCIAL

NUR ELIEYANA HANANIE MOHD SHUKRI WAN MOHAMAD FIRDAUS OMAR MUHAMMAD SAFWAN KHALILI NURRUL HAFIZAH YUSOF SYAFIQ SOFIYAN

SCIENTIFIC COMMITTEE

CHAIRPERSON HASMIZY MUHAMMAD

DEPUTY CHAIRPERSON MUHAMMAD HANAFI MOHD

NORLY ISMAIL AZMIZA MAHARANI

ZUHRAH ZAKARIA HANAFI SIDIK

NAZRI MOHAMED NOORDINI MOHAMED DANI

JUSMIDAR ABDUL JAMIL MOHD KHAIRUL ANWAR A. RAHIM

CHUA CHEN CHEN

PROGRAMME

2 nd OCTOBER	2025 (T	HURSDAY)			
0800 - 0830	REGISTE	REGISTRATION			
0830 - 0900	PLENAR How to S	Y 1 Chairperson: Hasmizy Muhammad Set Up and Run ECMO Mobile Team - A	Ahmed Labib Shehatta		
0900 - 0930	PLENAR Leadersh	Y 2 Chairperson: Mohamad Hanafi Moh nip in Perfusion and Patient Safety - Yo	nd ong Chow Yen		
0930 - 1030	OPENING	G CEREMONY			
1030 - 1100	TEA & TH	RADE EXHIBITION			
1100 - 1215		1100 - 1215	1100 - 1215		
SYMPOSIUM 1 : PHYSI Chairperson: Jusmidar Abdul Jamil/Lee Ko		SYMPOSIUM 2 : EQUIPMENT Chairperson: Ng Yew Ewe/Kauthar Rashid	SYMPOSIUM 3 : NURSING CARE Chairperson: James Joseph/Naeemah Abdul Aziz		
Oxygen Delivery and Consumption Haslan Ghazali Recognition of Shock Isqandar Adnan Physiology of Extracorporeal Life Support (ECLS) Mohd Izwan Azmi Muda		 ECMO Circuit Andy Sherman Khung ECMO Cannulas And Tubing Abdul Halim Abdul Hamid Membrane Lung, Blender and Pressure Monitoring Ahmad Fais Abu Seman 	 Nursing Implications for Detection and Prevention of Systemic Complications Related to ECMO Nurrul Hafizah Yusof Early Mobility in ECMO Norhayati Anuar Sedation and Analgesia During ECMO Azmiza Maharani 		
		Question and Answers Session			
1215 - 1245	LUNCH S	YMPOSIUM			
1245 - 1400	LUNCH				
1400 - 1430		′ 3 Chairperson: Jahizah Hassan perience in ECMO for Trauma Patients	s - Alhady Alfian Yusof		
1430 - 1545		1430 - 1545	1430 - 1545		
SYMPOSIUM 4 ECMO FUNDAMENTALS Chairperson: Yong Chow Yen/Nazri Mohamed		SYMPOSIUM 5 CONDUCT OF ECMO Chairperson: Hanafi Sidik/Hermi Safian	SYMPOSIUM 6 CRITICAL CARE I Chairperson: Ariffin Marzuki Mokhtar/ Khairunnadiah Kamaruzzaman		
 ECMO Transport Practicality and Guidelines Ahmed Labib Shehatta ECMO Team Structure Farook Ahmad Patient Selection for VV ECMO Abdurrahmaan Ali Elbuzidi 		 How do You Set Up an ECMO? Muhammad Fikri Abdul Halim How to Initiate the ECMO? Mohamad Hanafi Mohd Drainage Insufficiency and Return Obstruction Syafiq Sofiyan 	 ECPR: IJN Experience Kamilah Muhammad Hafidz Nutrition for ECMO Patients Vatana V Sundar Antibiotics and Interaction with ECLS Circuitry Suneta Sulaiman 		
Abdurrahmaan Ali Elbuzio					
Abdurrahmaan Ali Elbuzio		Question and Answers Session			

1700 - 1730

TEA & TRADE EXHIBITION

3 rd OCTOBER 2025 (FRIDAY)		
0800 - 0830	REGISTRATION	
0830 - 0900	PLENARY 4 Chairperson: Norly Ismail Ethics in Extracorporeal Life Support - Ariffin Marzuki Mokhtar	

0900 - 1015	0900 - 1015	0900 - 1015	
SYMPOSIUM 7 : CARDIAC Chairperson: Mohamad Haffiz Che Morad / Kamilah Muhammad Hafidz	SYMPOSIUM 8 : CRITICAL CARE II Chairperson: Haslan Ghazali / Nazri Mohamed	SYMPOSIUM 9 : MONITORING Chairperson: Mohd Khairul Anwar A. Rahim / Syafiq Sofiyan	
 ECMO for Circulatory Support Hasmizy Muhammad VA ECMO Maintenance and Weaning Lee Kok Tong Frontline ED Experience in ECMO Resuscitation Alhaldy Alfian Yusof Daily Assessments for ECMO Patients Nbal Mohammed Shpat - Fluid Management in ECMO Patients Norhayati Anuar - Ventilation On VV ECMO: How I do it? Thomas Muller 		 Monitoring of the ECMO Device Ng Yew Ewe Neurological Monitoring and Management for ECMO Patients Khairunnadiah Kamaruzaman Hemodynamic Monitoring in VA ECMO Patients Jusmidar Abdul Jamil 	
Question and Answers Session			

1015 - 1045	TEA & TRADE EXHIBITION
	PLENARY 5 Chairperson: Nordini Mohamed Dani ECPR in Refractory Cardiac Arrest? Pros and Cons - Thomas Muller

1115 - 1230	1115 - 1230	1115 - 1230	
SYMPOSIUM 10 LUNGS Azmiza Maharani / Rosaidaremanja Sukri	SYMPOSIUM 11 HAEMOSTASIS & COAGULATION James Joseph / Kauthar Rashid	SYMPOSIUM 12 PAEDIATRICS Hanafi Sidik / Naeemah Abdul Aziz	
 ECMO for Respiratory Support Mohd Khairul Anwar A. Rahim VV ECMO Maintenance and Weaning Kun Arifi Abbas Persistent Hypoxia in VV ECMO Abdurrahmaan Ali Elbuzidi 	 Anticoagulation Strategies and Monitoring on ECMO Mohd Fitry Zainal Abidin Blood Transfusion During ECMO Farook Ahmad Procedures During Patient On ECMO Mohammad Haffiz Che Morad Paediatrics ECMO Cir Cannula Muhammad Helmi Lokr ECMO to Treat Infecti Paediatric Patients Thavani Thavarajasinga. Outcomes of Children Extracorporeal Membo Oxygenation Ani Suraya Abdul Ghan 		
Question and Answers Session			

1230 - 1300	LUNCH SYMPOSIUM
1300 - 1430	FRIDAY PRAYERS & TRADE EXHIBITION
1430 - 1500	PLENARY 6 Chairperson: Ng Yew Ewe ECMO: Past, Present, Future - Simon Sin Win Ching

1500 - 1615	1500 - 1615	1500 - 1615	
SYMPOSIUM 13: MISCELLANEOUS Chairperson: Kamilah Muhammad Hafidz / Mohd Izwan Azmi Muda	SYMPOSIUM 14 MAGING IN ECMO Chairperson: Mohd Fitry Zainal Abidin / Isqandar Adnan	SYMPOSIUM 15: COMPLICATIONS IN ECMO Chairperson: Wong Theng Koe / Abd Halim Abd Hamid	
 An Experience on ECMO for COVID patients Kun Arifi Abbas ECMO for Trauma and Accidental Hypothermia Simon Sin Win Ching VA ECMO in Pulmonary Hypertension Patients Ariffin Marzuki Mokhtar 	 Ultrasonography for Cannulation Lee Kok Tong Echocardiography in ECMO Ng Yew Ewe Other Imaging Modalities in ECMO Hasmizy Muhammad 	Bleeding and Thromboembolism Jusmidar Abdul Jamil Infections Suneta Sulaiman Mechanical Complications Mohamad Hanafi Mohd	
Question and Answers Session			

4TH OCTOBER 2025 (SATURDAY)

WORKSHOPS

	DOCTORS & PARAMEDICS WORKSHOP	NURSING WORKSHOP		
0800 - 1000	ECMO: Cannula, Cannulation and Circuits Hasmizy Muhammad Mohamad Hanafi Mohd Lee Kok Tong	Session 1		
1000 - 1100	TEA BREAK			
	DOCTORS & PARAMEDICS WORKSHOP	NURSING WORKSHOP		
1100 - 1300	ECMO: Start, Maintain and Wean Thomas Muller Ng Yew Ewe Lee Kok Tong	Session 2		
1300 - 1400	LUNCH	LUNCH		
	DOCTORS & PARAMEDICS WORKSHOP	NURSING WORKSHOP		
1400 - 1600	ECMO: Troubleshooting Thomas Muller Ng Yew Ewe Lee Kok Tong	Session 3		
1600 - 1630	TEA BREAK			



REGISTRATION



CONFERENCE REGISTRATION

CATEGORY	BEFORE 15 SEPTEMBER 2025	15 SEPTEMBER 2025	ON-SITE
LOCAL DELEGATES			
DOCTORS	RM 850	RM 900	RM 1000
PARAMEDICS / NURSES	RM 850	RM 900	RM 1000
OVERSEAS DELEGATES	USD 300	USD 350	USD 400

ECMO WORKSHOP

CATEGORY	BEFORE 15 SEPTEMBER 2025	15 SEPTEMBER 2025	ON-SITE
LOCAL DELEGATES			
DOCTORS WORKSHOP (40 PAX)	RM 450	RM 500	RM 550
PARAMEDICS / NURSES WORKSHOP (40 PAX)	RM 450	RM 500	RM 550
OVERSEAS DELEGATES	USD 100	USD 150	USD 200

PAYMENT

All payments are to be issued to "Persatuan Perfusi Hospital Serdang"

Payments can be made via bank transfer to:

Name of account : PERSATUAN PERFUSI HOSPITAL SERDANG

Bank account number : 12029010075430 Name of bank : BANK ISLAM

Address of bank : NO 2 & 4, JALAN 6C/7, 43650, BANDAR BARU BANGI,

SELANGOR

Swift code : BIMBMYKL Reference : 2NECMO2025

Please return the bank remittance note or document image together with registration form by email to 2th.necmo@gmail.com

or

Pay and register online at https://mascap.org.my/

REGISTRATION FORM



TITLE :

FULL NAME :

MOBILE NO. :

EMAIL:

WORK PLACE :

COUNTRY:

MMC NUMBER :

IC NUMBER :

MEAL PREFERENCE: vegetarian / non-vegetarian

REGISTRATION CATEOGRY PLEASE CIRCLE THE CATEGORY

MAIN CONFERENCE : DOCTORS / PARAMEDICS / OVERSEAS

ECMO WORKSHOP : DOCTORS / PARAMEDICS

MAIN CONFERENCE

CATEGORY	BEFORE 15 SEPTEMBER 2025	15 SEPTEMBER 2025	ON-SITE
LOCAL DELEGATES	PI	LEASE CIRCLE THE FEE	Ē
DOCTORS	RM 850	RM 900	RM 1000
PARAMEDICS / NURSES	RM 850	RM 900	RM 1000
OVERSEAS DELEGATES	USD 300	USD 350	USD 400

ECMO WORKSHOP

CATEGORY	BEFORE 15 SEPTEMBER 2025	15 SEPTEMBER 2025	ON-SITE
LOCAL DELEGATES	PI	LEASE CIRCLE THE FEE	
DOCTORS WORKSHOP (40 PAX)	RM 450	RM 500	RM 550
PARAMEDICS / NURSES WORKSHOP (40 PAX)	RM 450	RM 500	RM 550
OVERSEAS DELEGATES	USD 100	USD 150	USD 200

CANCELLATION / REFUND



The conference secretariat must be informed in writing of all cancellations. Refunds will be made after the conference at the rates stated below.

Cancellation on or before 31st August 2025 : 50% refund Cancellation after 31st August 2025 : No refund

LIABILITY

The organising committee will not be liable for personal accidents, loss or damage to private properties of delegates during the conference.

Persatuan Perfusi Hospital Serdang

PPM-004-10-15052015 Level 4, Pusat Jantung Hospital Sultan Idris Shah, Serdang Jalan Kajang, 43000, Kajang. Selangor 0389475555 ext 8442

Email.: 2th.necmo@gmail.com



POSTER / ORAL PRESENTATION



The Scientific Committee invites would like to invite delegates to submit their abstracts for oral or poster presentation. Abstracts can either be in the form of a research article or case report.

Deadline for Abstract Submission is 15th September 2025.

Rules for Abstract Submission

- 1. Abstracts are to be submitted in English.
- 2. You must obtain the relevant consents and approvals before submitting the abstract.
- 3. Authors must adhere to the format provided on the website.
- 4. Abstracts will only be considered fro awards and prizes if they have not previously been presented at a scientific meeting or published in a journal.
- 5. Abstracts must be accompanied by the payment of registration fees.
- 6. Notification of acceptance will be sent by 15th September 2025.
- 7. The final selection will be under the responsibility of the Scientific Committee.

Prizes

1. Best Research Oral or Poster Presentation

1st Prize	RM 1,000
2 nd Prize	RM 750
3 rd Prize	RM 500

2. Case Report

1st Prize	RM 750
2 nd Prize	RM 500
3 rd Prize	RM 250

POSTER FORMAT



CASE REPORT

Please overtype Paper Title here (Title Case (i.e. each word starts with a capital letter), Times New Roman size 12 font, bold, left aligned)

Please overtype Authors here (Times New Roman size 10 font, First Name, Surname, Presenting Author to be bold, Affiliations numbered in superscript) e.g. **Hasmizy M**¹, Hanafi S², Siti Baiduri B²

Please overtype Affiliations here (Times New Roman, size 10 font Italics, Affiliation, Suburb/ Town, Country) e.g.

¹ Pusat Jantung Sarawak, Malaysia

² Hospital Umum Sarawak, Malaysia

Abstract text here:

Times New Roman font

Size 12

Left aligned

Maximum 300 words

Single line spacing

Abstracts should include:

- A statement of the introduction of the case.
- Case description.
- A statement of learning point.
- A statement of the conclusions reached.

Do not insert photographs. Please do not resize this box. Abstracts will not be reviewed if the word count exceeds 300.

You may type over these instructions.

RESEARCH / STUDY

Please overtype Paper Title here (Title Case (i.e. each word starts with a capital letter), Times New Roman size 12 font, bold, left aligned)

Please overtype Authors here (Times New Roman size 10 font, First Name, Surname, Presenting Author to be bold, Affiliations numbered in superscript) e.g. Hasmizy M¹, Hanafi S², Siti Baiduri B²

Please overtype Affiliations here (Times New Roman, size 10 font Italics, Affiliation, Suburb/ Town, Country) e.g.

¹ Pusat Jantung Sarawak, Malaysia

² Hospital Umum Sarawak, Malaysia

Abstract text here:

Times New Roman font

Size 12

Left aligned

Maximum 300 words

Single line spacing

Abstracts should include:

- A statement of the objectives of the study.
- A description of the methods used.
- A summary of the results obtained.
- A statement of the conclusions reached.

Do not insert photographs. Please do not resize this box. Abstracts will not be reviewed if the word count exceeds 300.

You may type over these instructions.

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