



# POCKET PROGRAM

Asia-Pacific Extracorporeal Life Support Organization 2019

# APELSO 2019

**November 20 – 22, 2019**  
Royal Golden Jubilee Building  
Bangkok, Thailand

**APELSO.com**

# WEDNESDAY November 20, 2019

## WORKSHOP I: CANNULATION (BDMS Simulation Center)

Time	Topic	Venue
8.00 am – 8.20 am	Registration	BDMS Training Center for Clinical Skills
8.20 am – 8.30 am	Welcome and opening remarks	
8.30 am – 9.30 am	Lecture	
9.30 am – 10.45 am	Two stations, 75 minutes each	
10.45 am – 12.00 pm		
12.00 pm – 1.00 pm	Lunch	Royal Golden Jubilee Building
1.00 pm – 2.15 pm	Three stations, 75 minutes each	BDMS Training Center for Clinical Skills
2.15 pm – 3.30 pm		
3.30 pm – 4.45 pm		
4.45 pm – 5.15 pm		

Participants are divided into 5 groups, rotating around 5 hands-on stations—Ultrasound, VV ECMO, Double lumen cannula, VA ECMO and reperfusion, and Surgical cut down.

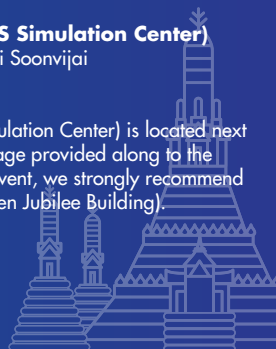
## WORKSHOP III: ECMO REFRESHER COURSE (Seminar 5)

Time	Topic	Venue	
8.00 am – 8.15 am	Registration	Royal Golden Jubilee Building	
8.15 am – 8.45 am	History and overview of ECMO physiology		
8.45 am – 9.15 am	Indications and contraindications (VA and VV)		
9.15 am – 9.45 am	ECMO circuit components and configurations		
9.45 am – 10.15 am	Break		
10.15 am – 10.45 am	Patient selection and management on ECMO		
10.45 am – 11.15 am	Common complications and troubleshooting		
11.15 am – 11.45 am	Weaning from VV and VA ECMO		
11.45 am – 12.00 pm	Question time		
12.00 pm – 1.00 pm	Lunch		
1.00 pm – 1.30 pm	Three stations, 30 minutes each	BDMS Training Center for Clinical Skills	
1.30 pm – 2.00 pm			
2.00 pm – 2.30 pm			Break
2.30 pm – 3.00 pm			
3.00 pm – 3.30 pm	Three stations, 30 minutes each		
3.30 pm – 4.00 pm			
4.00 pm – 4.30 pm			



**BDMS Training Center for Clinical Skills (BDMS Simulation Center)**  
Floor 10, Car parking building 4, Bangkok Hospital, Soi Soonvijai

The BDMS Training Center for Clinical Skills (BDMS Simulation Center) is located next to the Royal Golden Jubilee Building. There will be signage provided along to the walkway. For those who drive to join the pre congress event, we strongly recommend parking the cars at the conference building (Royal Golden Jubilee Building).



## WORKSHOP II: ECPR (Seminar 6)

Time	Topic	Venue
8.00 am – 8.20 am	Registration	Royal Golden Jubilee Building
8.20 am – 8.30 am	Welcome & opening remarks	
8.30 am – 9.00 am	Introduction to ECPR, evidence and guidelines	
9.00 am – 9.30 am	Patient selection	
9.30 am – 10.00 am	Role of mechanical CPR in ECPR	
10.00 am – 10.30 am	ECMO cannulation in ECPR	
10.30 am – 11.00 am	ECPR—forming the team and organization	
11.00 am – 11.30 am	Break	
11.30 am – 12.00 pm	Post ECPR management	
12.00 pm – 12.30 pm	Outcome and complications	
12.30 pm – 12.40 pm	Introduction to set up and briefing of afternoon activities	
12.40 pm – 1.30 pm	Lunch	
1.30 pm – 2.30 pm	Basic VA ECMO cannulation and speed priming	
2.30 pm – 5.00 pm	ECPR step by step	
5.00 pm – 5.30 pm	ECMO transport	
5.30 pm – 6.00 pm	Evaluation and program wrap-up	

## WORKSHOP IV: PEDIATRIC AND NEONATAL ECMO (Seminar 4)

Time	Topic	Venue	
7.30 am – 8.00 am	Registration	Royal Golden Jubilee Building	
8.00 am – 8.10 am	Welcome and introduction		
8.10 am – 8.40 am	Basic pediatric and neonatal ECMO physiology		
8.40 am – 9.10 am	Modes: VA and VV		
9.10 am – 9.40 am	Cannulation		
9.40 am – 10.00 am	Break		
10.00 am – 10.30 am	Drug dosing adjustment during ECMO		
10.30 am – 11.00 am	Anticoagulation during ECMO		
11.00 am – 11.30 am	Maintenance and weaning		
11.30 am – 11.40 am	Station orientation		
11.40 am – 12.30 pm	Lunch		
12.30 pm – 1.15 pm	Four stations, 45 minutes each		BDMS Training Center for Clinical Skills
1.15 pm – 2.00 pm			
2.00 pm – 2.45 pm			
2.45 pm – 3.30 pm			

### VENUES:

**Cannulation:** Registration, lecture, workshop at BDMS Simulation Center (Fl. 10)

### ECPR, ECMO Refresher course and Pediatric and Neonatal ECMO

**Registration:** Upper level of P3 (Royal Golden Jubilee Building)

**Lecture Rooms:** Seminar 4, 5, 6 (Royal Golden Jubilee Building)

**Hands-on Workshop:** BDMS Simulation Center

**Workshop Lunch:** Sirivannavari Room, Fl. G, Royal Golden Jubilee Building



# MAIN CONGRESS PROGRAM

**THURSDAY November 21, 2019**

Time	Cardiac support	Respiratory support
8:00 am – 9:00 am	<b>Plenary session I: ECPR</b>	
8:00 am – 8:15 am	Patient selection: Vincent Pellegrino (Australia)	
8:15 am – 8:30 am	Establishing an ECPR program: Wallace Ngai Chun-wai (Hong Kong)	
8:30 am – 8:45 am	Do's and Don'ts in ECPR: Yih-Shang Chen (Taiwan)	
8:45 am – 9:00 am	On-site ECPR for OHCA: Jae-Seung Jung (Korea)	
	<b>Moderators: Su Jin Kim, Bingyang Ji</b>	
9:00 am – 10:00 am	<b>Plenary session II: Overview of VV ECMO</b>	
9:00 am – 9:15 am	Current status of VV ECMO: Daniel Brodie (USA)	
9:15 am – 9:30 am	Clinical practice guideline for the management of ARDS: Toshiyuki Aokage (Japan)	
9:30 am – 9:45 am	Should we change our practice after EOLIA trial?: Alain Combes (France)	
9:45 am – 10:00 am	From CESAR to EOLIA, where are we heading to?: John Fraser (Australia)	
	<b>Moderators: Nicholas Barrett, Rungsun Bhurayanontachai</b>	
10:00 am – 10:15 am	<b>Break</b>	
10:15 am – 10:45 am	<b>Opening ceremony and Thai Cultural Show</b>	
10:45 am – 11:15 am	<b>Evolution of ECMO in Asia: Yih-Shang Chen (Taiwan)</b>	
11:15 am – 11:45 am	<b>Honorary lecture: John Fraser (Australia)</b>	
11:45 am – 12:45 pm	<b>Luncheon symposium</b>	
11:45 am – 12:15 pm	Role of Levosimendan in weaning of VA ECMO: Alain Combes (France)	
12:15 pm – 12:45 pm	EOLIA trial: Alain Combes (France)	
12:45 pm – 1:15 pm	<b>Poster/sponsor booth attendance</b>	
1:15 pm – 2:00 pm	<b>Mechanical cardiac support in acute myocardial infarction</b>	<b>Ventilation on VV ECMO</b>
1:15 pm – 1:30 pm	MCS for cardiogenic shock from cardiologist point of view: Jun Nakata (Japan)	Modes of ventilation on VV ECMO: Wallace Ngai Chun-wai (Hong Kong)
1:30 pm – 1:45 pm	VA ECMO in complicated acute myocardial infarction: Bingyang Ji (China)	How to sedate patients on VV ECMO: Toshiyuki Aokage (Japan)
1:45 pm – 2:00 pm	Update on EURO SHOCK trial: Alain Combes (France)	Benefits of spontaneous breathing on VV ECMO: Shay McGuinness (New Zealand)
	<b>Moderators: Richard Ming-Hui Lin, Boonlawat Homvises</b>	<b>Moderators: Steven Conrad, Pongdhep Theerawit</b>
2:00 pm – 2:45 pm	<b>Specific considerations in VA ECMO</b>	<b>ECCO2R</b>
2:00 pm – 2:15 pm	VA ECMO for pulmonary embolism: Meng-Yu Wu (Taiwan)	Overview of ECCO2R: Daniel Brodie (USA)
2:15 pm – 2:30 pm	Postcardiotomy cardiogenic shock: Roberto Lorusso (Netherlands)	ECCO2R in AECOPD: Nicholas Barrett (UK)
2:30 pm – 2:45 pm	ECMO in pregnancy: Seung Hwan Song (Korea)	Current trials in ECCO2R: Hergen Buscher (Australia)
	<b>Moderators: Su Jin Kim, Jule Namchaisiri</b>	<b>Moderators: Vincent Pellegrino, Rungsun Bhurayanontachai</b>
2:45 pm – 3:15 pm	<b>Break</b>	
3:15 pm – 4:00 pm	<b>LV unloading</b>	<b>Pediatric VV ECMO</b>
3:15 pm – 3:30 pm	Effects of VA ECMO on LV: Hergen Buscher (Australia)	Neonatal VV ECMO: Mark Ogino (USA)
3:30 pm – 3:45 pm	Prevention and early detection of LV distention: Shingo Ichiba (Japan)	Pediatric ARDS—HFOV vs. VV ECMO: Satoshi Nakagawa (Japan)
3:45 pm – 4:00 pm	Modalities and effects of LV unloading: Jae-Seung Jung (Korea)	VV ECMO for infants with bronchopulmonary dysplasia: Matthew Paden (USA)
	<b>Moderator: Zhongtao Du Teerapong Tocharoenchok</b>	<b>Moderators: Hwa Jin Cho, Rujipat Samransamruajkit</b>
4:00 pm – 4:45 pm	<b>ECMO retrieval</b>	<b>Weaning of VV ECMO</b>
4:00 pm – 4:15 pm	Retrieval of critically ill adults using ECMO: Shay McGuinness (New Zealand)	Weaning strategies from VV ECMO: Yuji Fujino (Japan)
4:15 pm – 4:30 pm	Transportation of neonatal and pediatric patients on ECMO: Michael McMullan (USA)	Monitoring for lung recovery in VV ECMO: John Fraser (Australia)
4:30 pm – 4:45 pm	Experience of ECMO retrieval in Asia: Pranya Sakiyalak (Thailand)	Difficult weaning situations: Adrian Matkke (Australia)
	<b>Moderators: Simon WC Sin, Rojjanee Lertbunriani</b>	<b>Moderators: Bishop Zakhary, Pongdhep Theerawit</b>
6:00 pm – 9:00 pm	<b>Gala dinner (Ballroom, AVANI Atrium Hotel)</b>	



# MAIN CONGRESS PROGRAM

FRIDAY November 22, 2019

Time	Cardiac support	Respiratory support
<b>Breakfast symposium: Meet the experts (Seminar 5,6)</b>		
7:30 am – 8:15 am	<b>Interesting cases in neonatal and pediatric ECMO</b> Michael McMullen, Adrian Mattkke, Satoshi Nakagawa	<b>Hybrid ECMO configurations</b> Daniel Brodie, Matthieu Schmidt
<b>Best poster oral presentations</b>		
<i>Panel: Pranya Sakiyalak, Matthew Paden, Jae-Seung Jung</i>		
<b>Plenary session III: Quality improvement in ECMO care</b>		
9:30 am – 9:45 am	Monitoring of ECMO patients: Hwa Jin Cho (South Korea)	
9:45 am – 10:00 am	Optimizing drug dosage in ECMO patients: Kiran Shekar (Australia)	
10:00 am – 10:15 am	Simulation training on ECMO: Simon WC Sin (Hong Kong)	
10:15 am – 10:30 am	Medical education on ECMO: Bishoy Zakhary (USA)	
<i>Moderators: Peter Rycus, Piya Samankatiwat</i>		
<b>Break</b>		
<b>Plenary session IV: Dilemmas in ECMO</b>		
11:00 am – 12:00 pm	Cost-effectiveness of ECMO in developing countries: Rungsun Bhurayanontachai (Thailand)	
11:00 am – 11:15 am	Family support and counselling—a major but neglected issue: Peter Lai (Hong Kong)	
11:15 am – 11:30 am	Debate: Should we cohort ECMO patients in one ICU? Babies to adults	
11:30 am – 12:00 pm	Pro: Matthew Paden (USA) Con: Mark Ogino (USA)	
<i>Moderators: Graeme MacLaren, Aekarach Ariyachaipanich</i>		
<b>Luncheon symposium</b>		
Mechanical ventilation on ECMO: Matthieu Schmidt (France)		
<b>Poster/sponsor booth attendance</b>		
1:00 pm – 1:15 pm	<b>Pediatric VA ECMO</b>	
1:15 pm – 2:00 pm	Current status of pediatric VA ECMO: Adrian Mattkke (Australia)	<b>Refractory desaturation on VV ECMO</b> Common causes of refractory desaturation: Steven Conrad (USA)
1:15 pm – 1:30 pm	VA ECMO in congenital heart disease: Michael McMullen (USA)	Acceptable oxygen saturation: Yuji Fujino (Japan)
1:30 pm – 1:45 pm	Long-term neurological outcome after pediatric VA ECMO: Satoshi Nakagawa (Japan)	Management of patients with refractory desaturation: Matthieu Schmidt (France)
1:45 pm – 2:00 pm	<i>Moderators: Mark Ogino, Rojaneer Lertbunriani</i>	<i>Moderators: Toshiyuki Aokage, Rujipat Samransamruajkit</i>
<b>Management of VA ECMO</b>		
2:00 pm – 2:45 pm	Weaning of VA ECMO: Bishoy Zakhary (USA)	<b>Adjuncts to VV ECMO</b> How to integrate RRT in ECMO: Shingo Ichiba (Japan)
2:00 pm – 2:15 pm	Vascular complications: Richard Ming-Hui Lin (Taiwan)	Prone positioning: Matthieu Schmidt (France)
2:15 pm – 2:30 pm	Differential hypoxia: Zhongtao Du (China)	HFOV after VV ECMO: Kiran Shekar (Australia)
2:30 pm – 2:45 pm	<i>Moderators: Jae-Seung Jung, Siriwasan Akanitthapichat</i>	<i>Moderators: Wallace Ngai Chun-wai, Surat Tongyoo</i>
<b>Break</b>		
<b>Management of RV failure</b>		
2:45 pm – 3:15 pm	Medical management: Aekarach Ariyachaipanich (Thailand)	<b>Specific considerations in VV ECMO</b> VV ECMO in patients with pulmonary hemorrhage: Steven Conrad (USA)
3:15 pm – 3:30 pm	VA ECMO for RV failure: Roberto Lorusso (Netherlands)	ECMO in patients with hematologic disorders: Hergen Buscher (Australia)
3:30 pm – 3:45 pm	RV failure in ARDS: Nicholas Barrett (UK)	VV ECMO in trauma patients: Meng-Yu Wu (Taiwan)
3:45 pm – 4:00 pm	<i>Moderators: Jun Nakata, Boonlawat Homvises</i>	<i>Moderators: Shay McGuinness, Jule Namchaisiri</i>
<b>Roles of VA ECMO in septic shock</b>		
4:00 pm – 5:00 pm	When to consider VA ECMO in patients with septic shock: Vincent Pellegrino (Australia)	<b>ECMO – How far have we gone? (Reports from the Asia-Pacific chapter)</b> Thailand, The Philippines, Singapore
4:00 pm – 4:15 pm	Outcome of septic patients supported by VA ECMO: Graeme MacLaren (Singapore)	South Korea, Japan
4:15 pm – 4:30 pm	Cytokine adsorption in VA ECMO: John Fraser (Australia)	Taiwan, Hong Kong, China
4:30 pm – 4:45 pm	–	Australia, New Zealand
4:45 pm – 5:00 pm	<i>Moderators: Shingo Ichiba, Teerapong Tocharoenchok</i>	<i>Moderators: Yih-Sharmg Chen, Pranya Sakiyalak</i>

Seminar 5, 6

Conference Hall 1

Conference Hall 2

# NURSE PROGRAM

**THURSDAY** November 21, 2019

Time	Congress Day 1
<b>1:00 pm – 5:00 pm</b>	<b>ECMO Nursing Program</b>
1:00 pm – 1:30 pm	Introduction to ECMO: Attapoom Susupaus (Thailand)
1:30 pm – 2:00 pm	ECMO circuits and devices: Witsanee Chokpaisan (Thailand)
2:00 pm – 2:30 pm	VA ECMO: Physiology and indications: Pranee Tongyai (Thailand)
	<b>Moderator: Nongchana Klangsuk</b>
<b>2:30 pm – 3:00 pm</b>	<b>Break</b>
3:00 pm – 3:30 pm	VV ECMO: Physiology and indications: Surat Tongyoo (Thailand) <sup>9</sup>
3:30 pm – 4:00 pm	ECMO cannulation and decannulation: Raymond Marteene (Australia)
4:00 pm – 4:30 pm	Monitoring in ECMO patients: Debra Bristow (Australia)
4:30 pm – 5:00 pm	Nursing care of ECMO patients: Debra Bristow (Australia)
	<b>Moderator: Nongchana Klangsuk</b>
<b>6:00 pm – 9:00 pm</b>	<b>Gala dinner (Ballroom, AVANI Atrium Hotel)</b>

 Seminar 5,6 \*Lecture delivered in Thai

**FRIDAY** November 22, 2019

Time	Congress, Day 2
<b>1:30 pm – 5:00 pm</b>	<b>ECMO Nursing Program</b>
1:30 pm – 2:00 pm	Anticoagulation management in ECMO: Nattaya Khamsiri (Thailand) <sup>9</sup>
2:00 pm – 2:30 pm	Complications of ECMO: Nattaya Khamsiri (Thailand) <sup>9</sup>
2:30 pm – 3:00 pm	Pediatric and neonatal ECMO vs. adult ECMO—What's the difference?: Piya Samankiatwat (Thailand)
	<b>Moderator: Visa Saneebutra</b>
<b>3:00 pm – 3:30 pm</b>	<b>Break</b>
3:30 pm – 4:00 pm	Advanced ECMO circuits: Nongchana Klangsuk (Thailand)
4:00 pm – 4:30 pm	ECMO transportation: Raymond Marteene (Australia)
4:30 pm – 5:00 pm	Common pitfalls and problem solving: Peter Lai (Hong Kong)
	<b>Moderator: Visa Saneebutra</b>

 Seminar 5,6 \*Lecture delivered in Thai

## TRAINING VILLAGE GETINGE

Date: November 21, 2019  
Venue: Seminar 4

### How to identify and solve ECMO problems as a team

Matthieu Schmidt

Senior Intensivist at Medical Intensive Care Department,  
La Pitié-Salpêtrière Hospital, Assistance Publique Hôpitaux de Paris

**Morning Session: 9:30 am - 11:00 am**

**Afternoon Session: 2:00 pm - 3:30 pm**

## SOCIAL EVENTS

### Speakers' Night (by invitation only)

Date: November 20, 2019

Time: 6:30 pm – 10:00 pm

Venue: Poolside, Amari Residence (Fl.8)

### Gala Dinner (all are welcome)

Date: November 21, 2019 (6:00 pm – 09:00 pm)

Venue: Ballroom, AVANI Atrium Hotel

Shuttle service provided from

Royal Golden Jubilee Building at 5:30 pm

Shuttle for speakers provided from

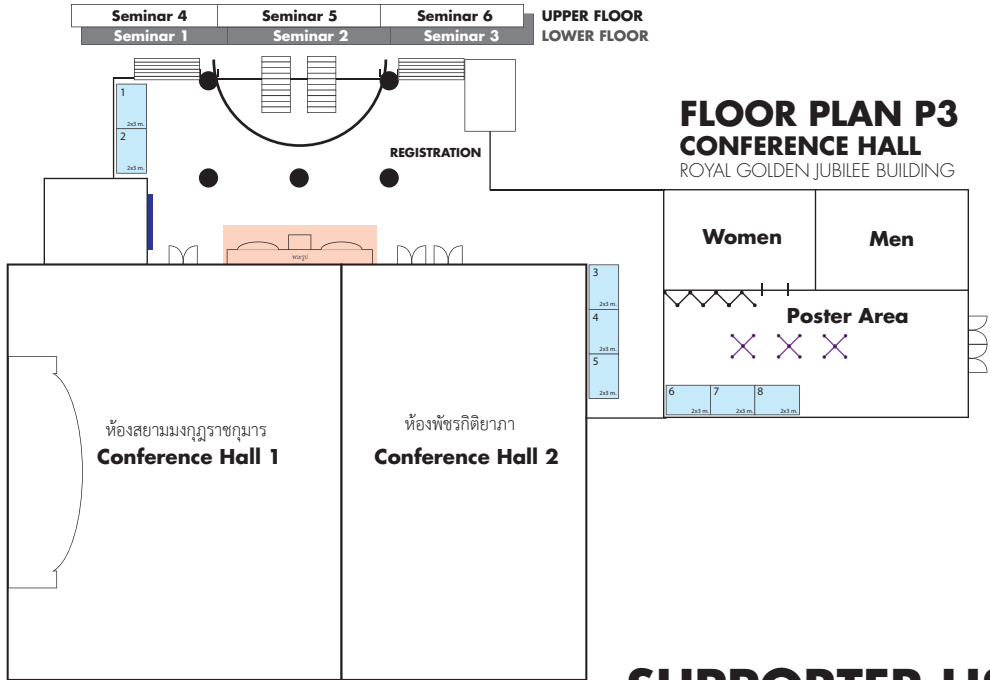
Amari Residences at 5:30 pm

# VENUE

## Conference Hall

Floor P3, Royal Golden Jubilee Building  
(Medical Association of Thailand)

2 Soi Soonvijai, New Petchburi Rd.,  
Huaykwang, Bangkok 10310



## SUPPORTER LIST

### Major supporters

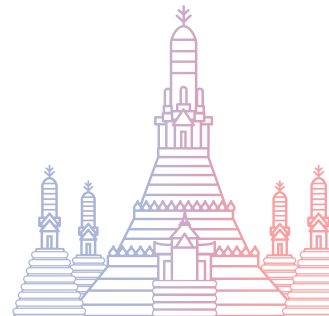
- Getinge (Thailand) Co., Ltd. (Booths 1, 2)
- Bangkok Dusit Medical Services (BDMS)
- Harn Thai Pharma (2508) Co., Ltd. (Booth 5)

### Exhibitors

- Transonic (Booth 3)
- ABIOMED (Booth 6)
- Medical Solutions Co., Ltd. (Booth 4)
- Abbott Laboratories (Singapore) Private Limited (Booth 7)
- LivaNova (Thailand) Ltd. (Booth 8)

### Other supporters

- ZOLL Medical (Thailand) Co., Ltd.
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## Cardiohelp System

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This document is intended to provide information to an international audience outside of the US.

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