

## Paediatric ECMO Secrets 10<sup>th</sup> October 2022

### Facilitators

Facilitators for this advanced ESPNIC paediatric SimLab 2022 will be utilised from broader international speaker group.

### Participants

We are planning to include 8-10 participants per session.

### Target audience

Paediatric intensivists, paediatricians, neonatologists, Emergency Department, cardiac intensivists, ECMO specialists, surgeons, cardiologists, anaesthetists, perfusionists, ICU nurses, theatre staff, trainees and other allied health care professionals looking after children on ECMO.

### Goals and aims

The goal of the training is to 1) acquire basic knowledge and competencies in managing children on ECMO, and 2) develop adequate multidisciplinary teamwork skills to manage children on advanced life support.

### Description

This immersive hands-on workshop provides the latest techniques and technology surrounding the clinical use of ECMO, including novel educational models. Through various multilevel, simple and advanced clinical scenarios, we will apply the knowledge gained in the understanding and managing children supported on ECMO utilizing high fidelity simulation mannequins and educational modalities with international, experienced facilitators.



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**Learning Outcomes**

Upon completion of this activity, participants should be able to:

- Identify the components of the ECMO circuit
- Recognize major indications and contraindications of VV and VA ECMO
- Identify and illustrate the most effective cannulation strategy
- Evaluate the modality of ECMO support most appropriate for the patient
- To be able to recognise and address routine and catastrophic ECMO problems
- Recognize, identify and assess causes and response to treatment for inadequate oxygen delivery
- Differentiate the interaction ECMO has on various patient organ systems
- Induction to multidisciplinary teamwork and basic pathway during ECPR
- Work and communicate clearly with multi-disciplinary team using closed loop communication

## Programme

Time	ECMO Team Simulation	ECMO Skill Stations
	VA ECMO	Hands-on
08:30 - 10:00	<b>Commencing and Complications VA ECMO</b>  Mirjana Cvetkovic Giacomo Cavallaro Alberto Medina Uri Pollak Jaume Izquierdo Blasco	<b>Elements of the Circuit and Troubleshooting</b>  Laura Butragueno Laiseca Vincente Modesto Maria Jose Santiago Javier Urbano
		<b>Elements of the Circuit and Troubleshooting</b>  Jesús Corrionero Alegre Yolanda Lopez-Fernandes Angela Amigoni Matteo Di Nardo Genny Raffaelli



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VV ECMO		Hands-on
10:30 – 12:00	<b>Commencing and Recirculation VV ECMO</b>  Javier Urbano Laura Butragueno Laiseca Vincente Modesto Matteo Di Nardo Maria Jose Santiago	<b>Cannulation VA ECMO</b>  Mirjana Cvetkovic Jaume Izquierdo Blasco Jesús Corriero Alegre
		<b>Cannulation VV ECMO</b>  Yolanda Lopez-Fernandes Giacomo Cavallaro Uri Pollak
ECPR		Hands-on
14:00 – 16:00	<b>ECPR</b> Giacomo Cavallaro Jimena Del Castillo Angela Amigoni Mirjana Cvetkovic Maria Jose Santiago Yolanda Lopez-Fernandes Matteo Di Nardo Jaume Izquierdo Blasco Jesús Corriero Alegre  <b>End of life care on ECMO</b>  Aparna Hoskote Mehrengise Cooper Joe Brierley	

**Scenarios**

- Commencing and complications on VA ECMO: **PIMS -TS**
- Commencing and recirculation on VV ECMO: **Viral infection 3m old**

ECPR: **Post Norwood**

End of life care on ECMO: **Neurological injury**



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**Faculty**

Mirjana Cvetkovic (UK)

Aparna Hoskote (UK)

Laura Butragueno Laiseca (ES)

Joe Brierley (UK)

Mehrengise Cooper (UK)

Giacomo Cavallaro (IT)

Matteo Di Nardo (IT)

Genny Raffaelli (IT)

Javier Urbano (ES)

Maria Jose Santiago (ES)

Jaume Izquierdo Blasco (ES)

Jesús Corriero Alegre (ES)

Angela Amigoni (IT)

Alberto Medina (ES)

Jimena Del Castillo (ES)

Vincente Modesto (ES)

Uri Pollak (IS)

Yolanda Lopez-Fernandes (ES)



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