Wednesday, 06 May 2020

Adult Session
08:00 - 10:00
Mountbatten

PRE: Basics course (Part I)
Chair: Thomas Müller (Germany)
Chair: Jo-Anne Fowles (United Kingdom)

- **Evidence for ECMO in respiratory failure**
  Speaker: Daniel Brodie (United States of America) 08:00 - 08:30

- **Physiology of respiratory ECMO**
  Speaker: Nicholas Barrett (United Kingdom) 08:30 - 09:00

- **Management of the VV-ECMO patient**
  Speaker: Alain Vuylsteke (United Kingdom) 09:00 - 09:30

- **Nursing the VV-ECMO patient**
  Speaker: Ann Alexanderson (Sweden) 09:30 - 10:00

Pediatric Session
08:00 - 09:00
St. James

PRE: Pediatric Meet the Experts Masterclass (Part I: Cannulation nightmares)
Chair: Jon Lillie (United Kingdom)
Chair: Chris Harvey (United Kingdom)

- **Introduction**
  Speaker: Jon Lillie (United Kingdom) 08:00 - 08:05

- **Difficult cannulation in left CDH 2.0 kg baby with pneumothorax**
  Speaker: Carl Davis (United Kingdom) 08:05 - 08:12

- **Purpura fulminans**
  Speaker: Claire Westrope (United Kingdom) 08:12 - 08:19

- **Leg ischaemia post peripheral femoral cannulation**
  Speaker: Lars Mikael Broman (Sweden) 08:19 - 08:26

- **Interrupted aortic arch with premature closure of the ductus**
  Speaker: Bjorn Frenckner (Sweden) 08:26 - 08:33

- **Failing Glenn**
  Speaker: Tim Jones (United Kingdom) 08:33 - 08:40

- **Roundtable and summary**
  Speaker: Jon Lillie (United Kingdom) 08:40 - 09:00
**Adult Session**
08:00 - 10:00

**Westminster**

**PRE: Cardiothoracic surgery (CTS) Masterclass (Part I)**

Patient selection in the moment, making the right choice, echo skills 08:00 - 09:30  
Speaker: Susanna Price (United Kingdom)

Surgical implantation/removal of 5.0/5.5 impella 09:30 - 10:00  
Speaker: Fabio De Robertis (United Kingdom)

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**Adult Session**
08:00 - 10:00

**Windsor**

**PRE: Mobilisation Masterclass (Part I)**

Chair: Kelly Morris (United Kingdom)  
Chair: Laura Breach (United Kingdom)  
Chair: Mike Brown (United Kingdom)  
Chair: Allaina Eden (United Kingdom)  
Chair: Claire Purkiss (United Kingdom)

Assessment of the ECMO patient (theory) 08:00 - 08:30
Ventilator hyperinflation (practical) 08:30 - 09:00
Manual assisted cough and manual techniques (practical) 09:00 - 09:30
Manual insufflation-exsufflation of the ventilated patient (practical) 09:30 - 10:00

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**Lab Session**
08:00 - 10:00

**Moore**

**PRE: Acute Cardiac Care Masterclass (Part I: Introduction, basic management of a potential ECMO patient in the cathlab)**

*in collaboration with Acute cardiac care association, European Society of Cardiology*

Chair: Jan Belohlávek (Czech Republic)  
Chair: Christian Hassager (Denmark)

Early morning case: "Just jump in and stay tuned" 08:00 - 08:30  
Speaker: Jan Belohlávek (Czech Republic)

Cathlab ready for anything: How to prepare your team for hemodynamic collapse 08:30 - 09:00

Live in box - ECPR for OHCA case in the cathlab 09:00 - 09:15  
Speaker: Jan Belohlávek (Czech Republic)

Let's go back to roots: The art of gaining and close access 09:15 - 10:00  
Speaker: Jörn Tongers (Germany)
PRE: Pediatric Respiratory Failure (EuroELSO & ESPNIC) Masterclass (Part I)

Objective of the masterclass (Part I - IV)

- Understanding the pathophysiology of neonatal and pediatric ARDS
- Mechanical ventilation (MV) strategies before ECMO (non-invasive MV, conventional MV, HFOV)
- Understanding the basic physiology of gas exchange in VA & VV-ECMO
- ECMO micro-simulation
- Basics of crisis resource management and macro-simulation

Target audience: Pediatricians, neonatologists, anesthesiologists, pediatric cardiologists, perfusionists, surgeons

The number of participants is limited - please register for this masterclass during the congress registration process.

Chair: Matteo Di Nardo (Italy)

08:00 - 08:30
Neonatal ARDS: What’s new about definition?
Speaker: Daniele De Luca (France)

08:30 - 09:00
Acute on chronic respiratory failure: How to manage?
Speaker: Christophe Milesi (France)

Station 1 - Neonatal ARDS: Hands on with CMV
Speaker: Christophe Milesi (France)

Station 2 - Neonatal ARDS: Hands on with HFOV
Speaker: Daniele De Luca (France)

PRE: Pediatric Heart Failure (EuroELSO & AEPC) Masterclass (Part I: Heart failure in children)

Chair: Tim Thiruchelvam (United Kingdom)
Chair: Judit Llevadias Jane (United Kingdom)

Opening address, welcome, introduction to the day, organisation of teams
Speaker: Tim Thiruchelvam (United Kingdom)
Speaker: Judit Llevadias Jane (United Kingdom)
Speaker: Joan Sanchez de Toledo (Spain)
Speaker: Ajay Desai (United Kingdom)
Speaker: Rebecca Jones (United Kingdom)

Demographics of heart failure in neonates, infants and children
Speaker: Joan Sanchez de Toledo (Spain)

Recognition of acute heart failure - Is it myocarditis?
Speaker: Aparna Hoskote (United Kingdom)

Management of deteriorating child with new onset cardiac failure in ICU: "The what to do's & not to do's"
Speaker: Tim Thiruchelvam (United Kingdom)

The ECMO circuit - Hands on
Speaker: Mirjana Cvetkovic (United Kingdom)
Speaker: Maura O’Callaghan (United Kingdom)
Adult Session
08:00 - 10:00  Shelley

**PRE: ECPR Masterclass (Part I)**
Chair: Simon Finney (United Kingdom)

- **The current evidence for ECPR**
  Speaker: Tiffany Patterson (United Kingdom)  08:00 - 08:30
- **When is a medical cardiac arrest refractory?**
  Speaker: Simon Finney (United Kingdom)  08:30 - 09:00
- **Should we have cardiac arrest centres?**
  Speaker: Tiffany Patterson (United Kingdom)  09:00 - 09:30
- **Interactive case discussion and decision making**
  Speaker: Ben Singer (United Kingdom)  09:30 - 10:00

Adult Session
08:00 - 10:00  Wesley

**PRE: Respiratory Masterclass (Part I)**
Chair: Luigi Camporota (United Kingdom)
Chair: Lise Piquilloud (Switzerland)

- **Measurement of respiratory mechanics at the bedside: From basics to advanced**  08:00 - 09:00
- **Alveolar recruitment and PEEP setting based on respiratory mechanics**  09:00 - 10:00

Adult Session
08:00 - 10:00  St. Thomas Hospital

**PRE: ECMO Simulation Masterclass (Part I)**

- **Introduction to ECMO sim**
  Speaker: Chris Meadows (United Kingdom)  08:00 - 08:40
- **Practicalities/ options for water drills**
  Speaker: Nicola Agnew (United Kingdom)
  Speaker: Nigel Gooby (United Kingdom)  08:40 - 09:20
- **Cannulation simulation options**
  Speaker: Nicholas Ioannou (United Kingdom)
  Speaker: Chris Meadows (United Kingdom)  09:20 - 10:00

Pediatric Session
09:00 - 10:00  St. James

**PRE: Pediatric Meet the Experts Masterclass (Part II: The clotty circuit)**
Chair: Kenneth Palmér (Sweden)
Chair: Carl Davis (United Kingdom)

- **Introduction**
  Speaker: Carl Davis (United Kingdom)  09:00 - 09:05
- **My patient has DIC**
  Speaker: Uri Pollak (Israel)  09:05 - 09:12
I have clot in the arterial cannula
Speaker: Jon Lillie (United Kingdom) 09:12 - 09:19

I have clot in the venous cannula
Speaker: Jan Hridel (Czech Republic) 09:19 - 09:26

We have a large pericardial effusion after VA ECMO
Speaker: Peter Roeleveld (Netherlands) 09:26 - 09:33

Anti Xa or APTT?
Speaker: Dirk Vlasselaers (Belgium) 09:33 - 09:40

Roundtable and summary
Speaker: Carl Davis (United Kingdom) 09:40 - 10:00

Adult Session
10:30 - 12:30

PRE: Basics course (Part II)
Chair: Alain Vuylsteke (United Kingdom)
Chair: Ann Alexanderson (Sweden)

Evidence for ECMO in cardiac failure
Speaker: Thomas Müller (Germany) 10:30 - 11:00

Physiology of cardiac ECMO
Speaker: Matthieu Schmidt (France) 11:00 - 11:30

Management of the VA-ECMO patient
Speaker: Pranya Sakiyalak (Thailand) 11:30 - 12:00

Nursing the VA-ECMO patient
Speaker: Jo-Anne Fowles (United Kingdom) 12:00 - 12:30

Pediatric Session
10:30 - 11:30

PRE: Pediatric Meet the Experts Masterclass (Part III: Problems on cardiac ECMO)
Chair: Giles Peek (United States of America)

Introduction 10:30 - 10:35

Cardiac decompression to vent or not to vent? Is there a role for impella?
Speaker: Antonio Amodeo (Italy) 10:35 - 10:45

Is there a role for VAD in post op cardiac MCS?
Speaker: Fabrizio De Rita (United Kingdom) 10:45 - 10:55

How to manage persistent refractory ventricular arrhythmias on ECMO
Speaker: Shri Deshpande (United States of America) 10:55 - 11:05

Roundtable discussion on second run ECMO on post-operative-patient
Speaker: Tim Jones (United Kingdom) 11:05 - 11:15

Roundtable and summary 11:15 - 11:30
Adult Session
10:30 - 12:30  Westminster

**PRE: Cardiothoracic surgery (CTS) Masterclass (Part II)**

- **Large bore surgical access and repair - How to do a successful chimney**  10:30 - 11:30
  Speaker: Tahir Hussein (United Kingdom)

- **Distal leg perfusion, on VA angios and impella CP, wire skills for surgeons**  11:30 - 12:30
  Speaker: Simon Davies (United Kingdom)

Adult Session
10:30 - 12:30  Windsor

**PRE: Mobilisation Masterclass (Part II)**

- **Chair:** Kelly Morris (United Kingdom)
- **Chair:** Laura Breach (United Kingdom)
- **Chair:** Mike Brown (United Kingdom)
- **Chair:** Allaina Eden (United Kingdom)
- **Chair:** Claire Purkiss (United Kingdom)

  - **Assessment for rehabilitation (theory)**  10:30 - 10:45
  - **Techniques of active and passive movement on ECMO**  10:45 - 11:00
  - **Bed transfers and positioning**  11:00 - 12:30

Lab Session
10:30 - 12:30  Moore

**PRE: Acute Cardiac Care Masterclass (Part II: Acute heart failure)**

*in collaboration with Acute cardiac care association, European Society of Cardiology*

- **Chair:** Jan Belohlávek (Czech Republic)
- **Chair:** Christian Hassager (Denmark)

  - **Diagnosis and management of acute heart failure in the cathlab - An overview**  10:30 - 11:30
    Speaker: Marko Noc (Slovenia)

  - **The valve is tiny - How to diagnose and treat hemodynamic compromise in stenotic valves**  11:30 - 12:00
    Speaker: Christian Hassager (Denmark)

  - **The valve is leaking - How to diagnose and treat hemodynamic compromise in regurgitating valves**  12:00 - 12:30

Pediatric Session
10:30 - 12:30  Byron

**PRE: Pediatric Respiratory Failure (EuroELSO & ESPNIC) Masterclass (Part II)**

- **Chair:** Matteo Di Nardo (Italy)
- **Chair:** Christophe Milesi (France)

  - **Pediatric respiratory failure: Update on definition**  10:30 - 11:00
    Speaker: Martin Kneyber (Netherlands)

  - **Non-invasive management of pediatric respiratory failure**  11:00 - 11:30
    Speaker: Marti Pons (Spain)
Station 1 - PARDS: How I set mechanical ventilation - CMV 11:30 - 12:00
Speaker: Uri Pollak (Israel)

Station 2 - PARDS: How I set mechanical ventilation - HFOV 12:00 - 12:30
Speaker: Martin Kneyber (Netherlands)

Pediatric Session
10:30 - 12:30 Chaucer

PRE: Pediatric Heart Failure (EuroELSO & AEPC) Masterclass (Part II: The role of ECMO in heart failure)
Chair: Ajay Desai (United Kingdom)
Chair: Ben Davies (United Kingdom)

Cardiac ECMO - Principles, indications, pitfalls 10:30 - 11:00
Speaker: Judit Llevadias Jane (United Kingdom)

Echocardiography in ECMO patients: What is important to know? 11:00 - 11:30
Speaker: Joan Sanchez de Toledo (Spain)

Station 1 - ECMO Simulation: Deteriorating child
Speaker: Mirjana Cvetkovic (United Kingdom)
Speaker: Ajay Desai (United Kingdom)
Speaker: Maura O'Callaghan (United Kingdom)

Station 2 - ECMO Simulation: Deteriorating child
Speaker: Rebecca Jones (United Kingdom)
Speaker: Joan Sanchez de Toledo (Spain)
Speaker: Judit Llevadias Jane (United Kingdom)

Adult Session
10:30 - 12:30 Shelley

PRE: ECPR Masterclass (Part II)
Chair: Simon Finney (United Kingdom)

Femoral anatomy, ultrasound, wires and dilators 10:30 - 11:00
Speaker: Simon Finney (United Kingdom)

Hybrid cut down in adults 11:00 - 11:30
Speaker: Alice Hutin (France)

Practical session (with ultrasound etc.) 11:30 - 12:00
Speaker: Simon Finney (United Kingdom)
Speaker: Ben Singer (United Kingdom)

Practical session (percutaneous cut down) 12:00 - 12:30
Speaker: Alice Hutin (France)

Adult Session
10:30 - 12:30 Wesley

PRE: Respiratory Masterclass (Part II)
Chair: Luigi Camporota (United Kingdom)
Chair: Lise Piquilloud (Switzerland)

Monitoring of patient-ventilator interaction at the bedside 10:30 - 11:30

Setting the ventilator in APRV 11:30 - 12:30
Adult Session
10:30 - 12:30 St. Thomas Hospital

PRE: ECMO Simulation Masterclass (Part II)
Chair: Chris Meadows (United Kingdom)

Insitu vs. simulation centre 10:30 - 11:00
Speaker: Peter Sherren (United Kingdom)

Options for blood / CO2 and is it worth it, perfusion perspective 11:00 - 11:30
Speaker: Nicola Agnew (United Kingdom)
Speaker: Nigel Gooby (United Kingdom)

Scenario writing, controlling scenarios 11:30 - 12:00
Speaker: Kathleen Daly (United Kingdom)

The perfect debrief, top tips 12:00 - 12:30
Speaker: Stephen Tricklebank (United Kingdom)

Pediatric Session
11:30 - 12:30 St. James

PRE: Pediatric Meet the Experts Masterclass (Part IV: ECPR)
Chair: Mark Davidson (United Kingdom)
Chair: Aparna Hoskote (United Kingdom)

Introduction 11:30 - 11:35
Speaker: Mark Davidson (United Kingdom)

Out of hospital arrest 11:35 - 11:42
Speaker: Melania Bembea (United States of America)

In hospital arrest in emergency room 11:42 - 11:49
Speaker: Anne-Marie Guerguerian (Canada)

In hospital arrest in pediatric ward 11:49 - 11:56
Speaker: Peter Roeleveld (Netherlands)

ECPR in labour ward 11:56 - 12:03
Speaker: Mark Ogino (United States of America)

Rescue ECMO 12:03 - 12:10
Speaker: Virginie Fouilloux (France)

Roundtable and summary 12:10 - 12:30
Speaker: Mark Davidson (United Kingdom)

Industry
12:45 - 13:45 Mountbatten

Industry sponsored session/symposia

Adult Session
14:00 - 16:00 Mountbatten

PRE: Basics course (Part III)
Chair: Matthieu Schmidt (France)
Percutaneous cannulation for VA and VV
Speaker: Caroline Sampson (United Kingdom)
14:00 - 14:30

Transport on ECMO
Speaker: Vincent Pellegrino (Australia)
14:30 - 15:00

The impact of ECMO on haematology
Speaker: Andrew Retter (United Kingdom)
15:00 - 15:30

The impact of ECMO on pharmacology
Speaker: Haifa Lyster (United Kingdom)
15:30 - 16:00

Pediatric Session
14:00 - 15:00
St. James

PRE: Pediatric Meet the Experts Masterclass (Part V: Failure to progress on ECMO, what next?)

Chair: Aparna Hoskote (United Kingdom)
Chair: Bjorn Frenckner (Sweden)

Introduction
Speaker: Aparna Hoskote (United Kingdom)
14:00 - 14:05

Persistent lactate on post cardiotomy ECMO
Speaker: Malaika Mendonca (Switzerland)
14:05 - 14:15

Persistent hypoxaemia on VV-ECMO
Speaker: Jana Assy (Lebanon)
14:15 - 14:25

Low flows on peripheral cannulation in sepsis
Speaker: Enno Wildschut (Netherlands)
14:25 - 14:35

Plasmapheresis on ECMO - When?
Speaker: Matthew Paden (United States of America)
14:35 - 14:45

Roundtable and summary
Speaker: Aparna Hoskote (United Kingdom)
14:45 - 15:00

Adult Session
14:00 - 16:00
Westminster

PRE: Cardiothoracic surgery (CTS) Masterclass (Part III)

How to make weaning a success - The preparation and execution of a separation from VA
Speaker: Caroline Bleakley (United Kingdom)
14:00 - 15:00

Getting a failed VA wean to longer term support, VAD, TAH and Tx
Speaker: Andre Simon (United Kingdom)
15:00 - 16:00

PRE: Mobilisation Masterclass (Part III)

Chair: Kelly Morris (United Kingdom)
Chair: Laura Breach (United Kingdom)
Chair: Mike Brown (United Kingdom)
Chair: Allaina Eden (United Kingdom)
Chair: Claire Purkiss (United Kingdom)
Lab Session
14:00 - 16:00

**PRE: Acute Cardiac Care Masterclass (Part III: Ultrasound and advanced diagnostics in acute setting)**

*in collaboration with Acute cardiac care association, European Society of Cardiology*

Chair: Jan Belohlávek (Czech Republic)
Chair: Christian Hassager (Denmark)

- **What should interventionalist and intensivist know about the ultrasound in acute setting**
  Speaker: Susanna Price (United Kingdom)  14:00 - 14:30

- **The value of echocardiography in patients on mechanical support**
  Speaker: Dirk Donker (Netherlands)  14:30 - 15:15

- **Coronary arteries - From luminography to advanced imaging**
  Speaker: Tomas Kovarnik (Czech Republic)  15:15 - 16:00

Pediatric Session
14:00 - 16:00

**PRE: Pediatric Respiratory Failure (EuroELSO & ESPNIC) Masterclass (Part III)**

Chair: Matteo Di Nardo (Italy)
Chair: Kenneth Palmér (Sweden)

- **Physiology of gas exchange**
  Speaker: Matteo Di Nardo (Italy)  14:00 - 14:30

- **Physiotherapy and early mobilisation in ECMO patients**
  Speaker: Emma Shkurka (United Kingdom)  14:30 - 15:00

- **Microsimulation with Aplysia Simulator - How to understand physiology at bedeside**
  Speaker: Michael Broomé (Sweden)  15:00 - 16:00

Pediatric Session
14:00 - 16:00

**PRE: Pediatric Heart Failure (EuroELSO & AEPC) Masterclass (Part III: Ventricular assist devices in children)**

Chair: Antonio Amodeo (Italy)
Chair: Rebecca Jones (United Kingdom)

- **From ECMO to VAD ... The story so far (Devices available and technical differences)**
  Speaker: Brigitte Stiller (Germany)  14:00 - 14:30

- **Peri-implantation considerations, selection of devices, choice of appropriate device, timing**
  Speaker: Ben Davies (United Kingdom)  14:30 - 15:00

- **Station 1 - Hands on simulation: Simulated circuits for BH Excor (Pulsatile VAD)**
  Speaker: Tim Thiruchelvam (United Kingdom)
  Speaker: Judit Llevadias Jane (United Kingdom)

- **Station 2 - Hands on simulation: Simulated circuits for BH Excor (Pulsatile VAD)**
  Speaker: Rebecca Jones (United Kingdom)
**Adult Session**
14:00 - 16:00  
Shelley

**PRE: ECPR Masterclass (Part III)**
Chair: Simon Finney (United Kingdom)

- **Developing a team**  
  Speaker: Allan Goldman (United Kingdom)  
  14:00 - 14:30
- **Individual performance in stressful settings**  
  Speaker: Simon Sin (Hong Kong)  
  14:30 - 15:00
- **Building and sustaining a pediatric ECPR program**  
  Speaker: Anne-Marie Guerguerian (Canada)  
  15:00 - 15:30
- **Designing a new service**  
  Speaker: Justyna Swol (Germany)  
  15:30 - 16:00

**Adult Session**
14:00 - 16:00  
Wesley

**PRE: Respiratory Masterclass (Part III)**
Chair: Luigi Camporota (United Kingdom)  
Chair: Lise Piquilloud (Switzerland)

- **Measurement of respiratory mechanics at the bedside: From basics to advanced**  
  14:00 - 15:00
- **Ventilating a patient with obstructive disease**  
  15:00 - 16:00

**Adult Session**
14:00 - 16:00  
St. Thomas Hospital

**PRE: ECMO Simulation Masterclass (Part III)**
Chair: Chris Meadows (United Kingdom)

- **Practicalities and set up for high fidelity**  
  14:00 - 14:30
- **High fidelity simulation (Part 1)**  
  14:30 - 15:15
- **High fidelity simulation (Part 2)**  
  15:15 - 16:00

**Pediatric Session**
15:00 - 16:00  
St. James

**PRE: Pediatric Meet the Experts Masterclass (Part VI: Multi-organ failure on ECMO)**
Chair: Claire Westrope (United Kingdom)  
Chair: Melania Bembea (United States of America)

- **Introduction**  
  Speaker: Claire Westrope (United Kingdom)  
  15:00 - 15:05
- **The kidneys are not improving**  
  Speaker: Ajay Desai (United Kingdom)  
  15:05 - 15:12
- **The liver is failing**  
  Speaker: Francisco Abecasis (Portugal)  
  15:12 - 15:19
- **Bleed/infarct on ECMO**  
  Speaker: Jan Hridel (Czech Republic)  
  15:19 - 15:26
Brain death
Speaker: Angelo Polito (Switzerland)
15:26 - 15:33

No recovery - Parents do not want to stop
Speaker: Giuseppina Testa (Italy)
15:33 - 15:40

Roundtable and summary
Speaker: Claire Westrope (United Kingdom)
15:40 - 15:55

Adult Session
16:30 - 18:30

PRE: Basics course (Part IV)
Chair: Haifa Lyster (United Kingdom)
Chair: Andrew Retter (United Kingdom)

An introduction to the ECMO circuit
Speaker: Nicola Agnew (United Kingdom)
16:30 - 17:00

Configuration, reconfiguration, changing circuits, components
Speaker: Antonella Degani (Italy)
17:00 - 17:30

Circuit emergency management
Speaker: Andrea Moscatelli (Italy)
17:30 - 18:00

Complications of ECMO
Speaker: Kathleen Daly (United Kingdom)
18:00 - 18:30

Pediatric Session
16:30 - 17:30

PRE: Pediatric Meet the Experts Masterclass (Part VII: Transitions, when to consider, how to do them safely?)
Chair: Ajay Desai (United Kingdom)
Chair: Lars Mikael Broman (Sweden)

Introduction
Speaker: Ajay Desai (United Kingdom)
16:30 - 16:35

VV to VA
Speaker: Jana Assy (Lebanon)
16:35 - 16:45

VA to VV
Speaker: Pierre Louis Leger (France)
16:45 - 16:55

VA to VAD
Speaker: Fabrizio De Rita (United Kingdom)
16:55 - 17:05

VV to VVA and is there a role for VAV?
Speaker: Chris Harvey (United Kingdom)
17:05 - 17:15

Roundtable and summary
Speaker: Ajay Desai (United Kingdom)
17:15 - 17:30

Adult Session
16:30 - 18:30

PRE: Cardiothoracic surgery (CTS) Masterclass (Part IV)
**Adult Session**
16:30 - 18:30  
**PRE: Mobilisation Masterclass (Part IV)**
Chair: Kelly Morris (United Kingdom)  
Chair: Laura Breach (United Kingdom)  
Chair: Mike Brown (United Kingdom)  
Chair: Allaina Eden (United Kingdom)  
Chair: Claire Purkiss (United Kingdom)

16:30 - 17:30  
**Pre-transplant assessment and treatment**
17:30 - 18:30  
**BiVAD, VAD's, peripheral VA mobilisation**

**Lab Session**
16:30 - 18:30  
**PRE: Acute Cardiac Care Masterclass (Part IV: Mechanical support not only in the cathlab - What would you use in...? A rapid fire panel discussion.**

*in collaboration with Acute cardiac care association, European Society of Cardiology*

Mechanical support not only in the cathlab - What would you use in ...? A rapid fire panel discussion.

Rapid fire discussion on mechanical support in:  
Cardiac arrest, cardiogenic shock in pure STEMI, cardiogenic shock with refractory hypoxemia, acute VSD, acute mitral rupture, aortic stenosis, myocarditis, terminal heart failure, pulmonary embolism, protected PCI, protected VT ablation, septic shock, ...

Chair: Jan Belohlávek (Czech Republic)  
Chair: Christian Hassager (Denmark)

16:30 - 16:45  
**ECMO overview**
Speaker: Petr Ostadal (Czech Republic)

16:45 - 17:00  
**Impella overview**
Speaker: Jan Belohlávek (Czech Republic)

17:00 - 17:15  
**Protec Duo overview**

17:15 - 18:30  
**Rapid fire discussion on mechanical support**
Speaker: Jan Belohlávek (Czech Republic)  
Speaker: Susanna Price (United Kingdom)  
Speaker: Jörn Tongers (Germany)  
Speaker: Petr Ostadal (Czech Republic)  
Speaker: Tomas Kovarnik (Czech Republic)  
Speaker: Dirk Donker (Netherlands)  
Speaker: Christian Hassager (Denmark)

**Pediatric Session**
16:30 - 18:30  
**PRE: Pediatric Respiratory Failure (EuroELSO & ESPNIC) Masterclass (Part IV)**
Chair: Matteo Di Nardo (Italy)  
Chair: Michael Broomé (Sweden)

16:30 - 17:00  
**Percutaneous vs. surgical cannulation for respiratory ECMO**
Speaker: Andrea Moscatelli (Italy)  
Speaker: Giles Peek (United States of America)

17:00 - 17:30  
**Neonatal respiratory failure - Live simulation**
Speaker: Giacomo Cavallaro (Italy)  
Speaker: Velia Antonini (Italy)
**Pediatric Session**

**16:30 - 18:30**

**PRE: Pediatric Heart Failure (EuroELSO & AEPC) Masterclass (Part IV: Ventricular assist devices in children)**

- **Station 1 - Hands on simulation: Simulated circuits for HVAD**
  - Speaker: Rebecca Jones (United Kingdom)
  - Speaker: Antonio Amodeo (Italy)
  - 16:30 - 16:45

- **Station 2 - Hands on simulation: Simulated circuits for HVAD**
  - Speaker: Ben Davies (United Kingdom)
  - Speaker: Judit Llevadias Jane (United Kingdom)
  - 16:45 - 17:00

- **ICU management of VADs including anticoagulation and complications**
  - Speaker: Jonathan Smith (United Kingdom)
  - 17:00 - 17:30

- **Post ICU care in the community & dealing with uncertainty - Waiting for transplant in hospital or home**
  - Speaker: Rebecca Jones (United Kingdom)
  - 17:30 - 18:00

- **Evaluation for attendees and certification - Feedback from attendees - Wrap-up**
  - Speaker: Tim Thiruchelvam (United Kingdom)
  - Speaker: Judit Llevadias Jane (United Kingdom)
  - Speaker: Rebecca Jones (United Kingdom)
  - 18:00 - 18:30

**Adult Session**

**16:30 - 18:30**

**PRE: ECPR Masterclass (Part IV)**

- **Chair: Simon Finney (United Kingdom)**

- **What temperature should we aim for?**
  - Speaker: Bruno Lévy (France)
  - 16:30 - 17:00

- **Post ROSC ECMO management**
  - Speaker: Alice Hutin (France)
  - 17:00 - 17:30

- **Neuroprognostication after cardiac arrest**
  - Speaker: Lionel Lamhaut (France)
  - 17:30 - 18:00

- **Discussion: Psychological distress in staff**
  - Speaker: Melissa Sanchez (United Kingdom)
  - 18:00 - 18:30
Adult Session  
16:30 - 18:30  
PRE: Respiratory Masterclass (Part IV)  
Chair: Luigi Camporota (United Kingdom)  
Chair: Lise Piquilloud (Switzerland)  
- Setting the ventilator in pressure controlled and volume controlled ventilation  
- Setting the ventilator and monitoring during ECMO weaning  

Adult Session  
16:30 - 18:30  
PRE: ECMO Simulation Masterclass (Part IV)  
Chair: Chris Meadows (United Kingdom)  
- Lessons learnt from a decade of ECMO sim  
- Q&A  
- Reception  

Pediatric Session  
17:30 - 18:30  
PRE: Pediatric Meet the Experts Masterclass (Part VIII: A roundtable of experts: Sharing practices across institutions)  
A quickfire session on:  
- Sweep flow targets on initiation  
- Haemoglobin targets and platelet targets  
- Rest settings on respiratory ECMO  
- How do we know coronary flow  
- Heparin targets on weaning  
- High ECMO flow in sepsis  
Chair: Aparna Hoskote (United Kingdom)  
- A roundtable of experts: Sharing practices across institutions  
  Speaker: Giles Peek (United States of America)  
  Speaker: Claire Westrope (United Kingdom)  
  Speaker: Melania Bembea (United States of America)  
  Speaker: Marco Ranucci (Italy)  
  Speaker: Gail Faulkner (United Kingdom)  
- Wrap-up and thanks  
  Speaker: Aparna Hoskote (United Kingdom)
Thursday, 07 May 2020

Industry
08:00 - 08:45

Industry sponsored session/symposia

Plenary Session
09:00 - 10:00

Opening Ceremony

Welcome Address Congress Chair
Speaker: Nicholas Barrett (United Kingdom)

Welcome Address EuroELSO Chair
Speaker: Jan Belohlávek (Czech Republic)

Sophie Royce - Patient

Risky Business
Speaker: Allan Goldman (United Kingdom)

Year in review - Adult VA-ECMO
Speaker: Jan Belohlávek (Czech Republic)

Year in review - Adult VV-ECMO
Speaker: Matthieu Schmidt (France)

Year in review - Pediatrics ECMO
Speaker: Aparna Hoskote (United Kingdom)

Year in review - Technology
Speaker: Leen Vercaemst (Belgium)

Adult Session
10:30 - 12:30

Adult Cardiac - Heart failure
Chair: Alain Combes (France)
Chair: Dirk Donker (Netherlands)

What are the indications for ECMO in refractory cardiogenic shock?
Speaker: Holger Thiele (Germany)

Is there a role for ECMO as “bridge to decision” in chronic heart failure?
Speaker: Miklós Pólos (Hungary)

When should we start mechanical cardiac support in acute heart failure?
Speaker: Stephen Pettit (United Kingdom)

Is combined use of Impella® and VA-ECMO better than VA-ECMO alone in refractory cardiogenic shock?

ECMO as a bridge in inflammatory cardiomyopathies

ECMO has a role in septic cardiomyopathy (PRO)
Speaker: Nicolas Bréchot (France)

ECMO has a role in septic cardiomyopathy (CON)
Speaker: Graeme MacLaren (Singapore)
Discussion on the PRO/CON debate
Speaker: Nicolas Bréchot (France)
Speaker: Miklós Pólos (Hungary)
Speaker: Holger Thiele (Germany)
Speaker: Stephen Pettit (United Kingdom)
Speaker: Graeme MacLaren (Singapore)

Adult Session
10:30 - 12:30
Churchill

Adult Respiratory - Severe ARDS
Chair: Marco Ranieri (Italy)
Chair: Luciano Gattinoni (Germany)

Phenotypes in ARDS: Impact on clinical practice?
Speaker: Arthur Slutsky (Canada)  
10:30 - 10:45

Biomarkers of lung injury
Speaker: Maximilian Malfertheiner (Germany)  
10:45 - 11:00

Ten years’ experience of respiratory ECMO in Japan
Speaker: Marco Ranieri (Italy)  
11:00 - 11:10

Pharmacological treatment: Just negative trials?
Speaker: Marco Ranieri (Italy)  
11:10 - 11:25

Conventional management of ARDS in the ECMO era - How has it changed?
Speaker: Darryl Abrams (United States of America)  
11:25 - 11:40

Respiratory ECMO indications in 2020
Speaker: Peter Schellongowski (Austria)  
11:40 - 11:55

Roundtable: Respiratory ECMO in 2030
Speaker: Arthur Slutsky (Canada)
Speaker: Maximilian Malfertheiner (Germany)
Speaker: Darryl Abrams (United States of America)
Speaker: Peter Schellongowski (Austria)  
11:55 - 12:25

Pediatric Session
10:30 - 12:30
Mountbatten

Pediatric ECMO referral & selection: Let's get the timing right!
Chair: Mark Davidson (United Kingdom)
Chair: Bjorn Frenckner (Sweden)

PPHN including CDH
Speaker: Virginie Fouilloux (France)  
10:30 - 10:45

Pediatric ARDS
Speaker: Martin Kneyber (Netherlands)  
10:45 - 11:00

Post-cardiotomy
Speaker: Tim Jones (United Kingdom)  
11:00 - 11:15

Neonatal respiratory ECMO: Is the trend away from VV towards VA-ECMO justified?
11:15 - 11:25

Decompensated heart failure
Speaker: Judit Llevadias Jane (United Kingdom)  
11:25 - 11:40

When ECMO is not enough
Speaker: Antonio Amodeo (Italy)  
11:40 - 11:55
### Roundtable: Clinical case discussion - Where we got the timing wrong

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Time</th>
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<tbody>
<tr>
<td>Virginie Fouilloux (France)</td>
<td>11:55 - 12:25</td>
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<tr>
<td>Martin Kneyber (Netherlands)</td>
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<td>Tim Jones (United Kingdom)</td>
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<td>Judit Llevadias Jane (United Kingdom)</td>
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<td>Antonio Amodeo (Italy)</td>
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### Nurse Session

10:30 - 12:30

**Nursing - Adult - What have I learnt**

Chair: Kathleen Daly (United Kingdom)
Chair: Chirine Mossadegh (France)

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>Where have we come from adults</td>
<td>10:30 - 10:45</td>
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<tr>
<td>Speaker: Ann Alexanderson (Sweden)</td>
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<tr>
<td>Where have we come from pediatrics</td>
<td>10:45 - 11:00</td>
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<tr>
<td>Speaker: Gail Faulkner (United Kingdom)</td>
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<tr>
<td>Staffing around Europe</td>
<td>11:00 - 11:15</td>
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<tr>
<td>Speaker: Chirine Mossadegh (France)</td>
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<td>Utilising qualitative research evidence through systematic review of children’s experiences of visiting adult intensive care units to introduce child visitation in an adult ECMO centre</td>
<td>11:15 - 11:25</td>
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<td>We need specialist ECMO nurses (PRO)</td>
<td>11:25 - 11:40</td>
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<tr>
<td>Speaker: Jo-Anne Fowles (United Kingdom)</td>
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<tr>
<td>We need specialist ECMO nurses (CON)</td>
<td>11:40 - 11:55</td>
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<tr>
<td>Speaker: Riccardo Cusma-Piccione (Italy)</td>
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<tr>
<td>Roundtable: Challenging cases Q&amp;A</td>
<td>11:55 - 12:25</td>
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<tr>
<td>Speaker: Ann Alexanderson (Sweden)</td>
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<td>Speaker: Chirine Mossadegh (France)</td>
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### Adult Session

10:30 - 12:30

**Monitoring a severe ARDS patient**

Chair: Mirko Belliat (Italy)
Chair: Luigi Camporota (United Kingdom)

<table>
<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>What can the CT scan in ARDS tell us about lung physiology?</td>
<td>10:30 - 10:45</td>
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<tr>
<td>Speaker: Lukas Lambert (Czech Republic)</td>
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<tr>
<td>Why and how can we monitor the respiratory drive?</td>
<td>10:45 - 11:00</td>
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<tr>
<td>Speaker: Leo Heunks (Netherlands)</td>
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<td>Is fluid balance during the first seven days following cannulation for VV-ECMO associated with outcome?</td>
<td>11:00 - 11:10</td>
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<tr>
<td>What is the role for echocardiography in respiratory failure on ECMO?</td>
<td>11:10 - 11:25</td>
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<tr>
<td>Speaker: Susanna Price (United Kingdom)</td>
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<td>Is there a role for electrical impedance tomography on ECMO?</td>
<td>11:25 - 11:40</td>
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<td>Speaker: Inez Frerichs (Germany)</td>
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<td>11:40 - 11:55</td>
<td><strong>Is there a role for oesophageal pressure on ECMO?</strong></td>
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<td>Speaker: Daniel Talmor (United States of America)</td>
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<td>11:55 - 12:10</td>
<td><strong>Is there a role for lung &amp; diaphragmatic US on ECMO?</strong></td>
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<td>Speaker: Martin Balik (Czech Republic)</td>
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<td>12:10 - 12:25</td>
<td><strong>Roundtable: Ideal monitoring package</strong></td>
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<td>Speaker: Lukas Lambert (Czech Republic)</td>
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### Perfusion - Cannula session

**Chair:** Lars Mikael Broman (Sweden)
**Chair:** Antonella Degani (Italy)

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<th>Time</th>
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<tr>
<td>10:30 - 10:45</td>
<td><strong>Mixing of return blood flow and in-stream related trauma</strong></td>
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<td>Speaker: Jutta Arens (Germany)</td>
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<td>10:45 - 11:00</td>
<td><strong>Clinical impact of cannula design in VA-ECMO</strong></td>
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<td>Speaker: John Toomasian (United States of America)</td>
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<tr>
<td>11:00 - 11:10</td>
<td>**Evaluation of recirculation during VV-ECMO using computational fluid</td>
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<td>dynamics incorporating fluid-structure interaction**</td>
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<td></td>
<td>Speaker: Sandeep Dewan (India)</td>
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<td>11:10 - 11:25</td>
<td><strong>Cannulation strategies for distal limb perfusion</strong></td>
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<td>Speaker: Mark Kurusz (United States of America)</td>
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<td>11:25 - 11:40</td>
<td><strong>Cannulation strategies for right heart failure</strong></td>
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<td>Speaker: Caroline Sampson (United Kingdom)</td>
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<td>11:40 - 11:55</td>
<td><strong>Double lumen cannula - The benefit vs. the risk</strong></td>
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<td>Speaker: Bart Meyns (Belgium)</td>
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<td>11:55 - 12:10</td>
<td><strong>Cannulation tips for pediatrics</strong></td>
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<td>Speaker: Jutta Arens (Germany)</td>
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<td>12:10 - 12:25</td>
<td><strong>Roundtable: The ideal cannula</strong></td>
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### Pediatric - Maintaining steady state ECMO

**Chair:** Peter Roeleveld (Netherlands)
**Chair:** Pierre Louis Leger (France)

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<tr>
<td>10:30 - 10:45</td>
<td>**Adequate tissue oxygenation on ECMO: Assessment and clinical</td>
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<td>consequences**</td>
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<td>Speaker: Aparna Hoskote (United Kingdom)</td>
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**Metabolic demand of ECMO in children**
Speaker: Michele Domico (United States of America)

10:45 - 11:00

**Assessing myocardial rest on ECMO**
Speaker: Joan Sanchez de Toledo (Spain)

11:00 - 11:15

**Outcomes and factors associated with early mortality of extracorporeal membrane oxygenation in pediatric cardiac surgery**

11:15 - 11:25

**Caring for the lungs on VV- and VA-ECMO**
Speaker: Matteo Di Nardo (Italy)

11:25 - 11:40

**Optimal fluid status on ECMO: Assessment and management**
Speaker: David Cooper (United States of America)

11:40 - 11:55

**Roundtable: Sedation versus early mobilization**
Speaker: Emma Shkurka (United Kingdom)
Speaker: Aparna Hoskote (United Kingdom)
Speaker: Michele Domico (United States of America)
Speaker: Joan Sanchez de Toledo (Spain)
Speaker: Matteo Di Nardo (Italy)
Speaker: David Cooper (United States of America)

11:55 - 12:25

**Troubleshooting in VV-ECLS 1**
Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

Chair: Chirine Mossadegh (France)

10:30 - 11:30

**Post-resuscitation care after ROSC by ECPR in adult 1**
Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.

Chair: Shingo Ichiba (Japan)

10:30 - 11:30

**Ped ECLS basics troubleshooting 1**
This immersive hands-on workshop will employ the most up-to-date technology and techniques involving the clinical use of ECLS in pediatric patients.

Chair: Maura O’Callaghan (United Kingdom)
Chair: Mirjana Cvetkovic (United Kingdom)

10:30 - 11:30
Educational Corner
10:30 - 11:30

**ECPR in OHCA 1**

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest.

Trainers are: Justyna Swol, Matthias Baumgärtel, Katrin Buttler, Katrin Emmrich, Steffen Nietzold, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)

Educational Corner
11:45 - 12:45

**Troubleshooting in VV-ECLS 2**

Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

Chair: Chirine Mossadegh (France)

Educational Corner
11:45 - 12:45

**Post-resuscitation care after ROSC by ECPR in adult 2**

Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.

Chair: Shingo Ichiba (Japan)

Educational Corner
11:45 - 12:45

**ECLS Ped sim advanced 1**

Through clinical scenarios, learners will gain the knowledge about common, frequently occurring causes as well as rare, not so frequently occurring causes of desaturation on VV ECLS in pediatric patients.

Chair: Maura O’Callaghan (United Kingdom)
Chair: Mirjana Cvetkovic (United Kingdom)

Educational Corner
11:45 - 12:45

**ECPR in OHCA 2**

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest.

Trainers are: Justyna Swol, Matthias Baumgärtel, Katrin Buttler, Katrin Emmrich, Steffen Nietzold, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)
**Teach Program / Workshop**

12:30 - 14:00

**ELSO Registry Registrar Meeting**

Industry
12:45 - 13:45

**Industry sponsored session/symposia**

Title: The role of Impella in treatment of cardiogenic shock

Industry
12:45 - 13:45

**Industry sponsored session/symposia**

Educational Corner
13:45 - 14:45

**Troubleshooting in VV-ECLS 3**

Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

Chair: Chirine Mossadegh (France)

Educational Corner
13:45 - 14:45

**Ultrasound in ECLS cannulation and during the ECLS run 1**

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartłomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

Educational Corner
13:45 - 14:45

**Ped ECLS basics troubleshooting 2**

This immersive hands-on workshop will employ the most up-to-date technology and techniques involving the clinical use of ECLS in pediatric patients.

Chair: Maura O'Callaghan (United Kingdom)
Chair: Mirjana Cvetkovic (United Kingdom)
ECPR in OHCA 3

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest. Trainers are: Justyna Swol, Matthias Baumgärtel, Katrin Buttler, Katrin Emmrich, Steffen Nietzold, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)

Adult Session
14:00 - 16:00

Adult Cardiac - Pathophysiological and technical considerations
Chair: Tony Gershlick (United Kingdom)

- From Eisenhower’s heart attack to modern ACS management 14:00 - 14:15
  Speaker: Thomas Lüscher (United Kingdom)

- All VA-ECMO patients should be cannulated percutaneously! (PRO) 14:15 - 14:30
  Speaker: Xiaotang Hou (China)

- All VA-ECMO patients should be cannulated percutaneously! (CON) 14:30 - 14:45
  Speaker: Andre Simon (United Kingdom)

- Why and how to unload the left ventricle? 14:45 - 15:00
  Speaker: Roberto Lorusso (Netherlands)

- Weaning strategies for VA-ECMO 15:00 - 15:15
  Speaker: Susanna Price (United Kingdom)

- Early impella to vent the left ventricle (PRO) 15:15 - 15:30
  Speaker: Uwe Zeymer (Germany)

- Early impella to vent the left ventricle (CON) 15:30 - 15:45
  Speaker: Uwe Zeymer (Germany)

Discussion 15:45 - 16:00
Speaker: Xiaotang Hou (China)
Speaker: Andre Simon (United Kingdom)
Speaker: Roberto Lorusso (Netherlands)
Speaker: Susanna Price (United Kingdom)
Speaker: Uwe Zeymer (Germany)

Adult Respiratory - How to ventilate on ECMO?
Chair: Antonio Pesenti (Italy)
Chair: Lise Piquilloud (Switzerland)

- Protective ventilation on ECMO 14:00 - 14:15
  Speaker: Darryl Abrams (United States of America)

- The respiratory drive and spontaneous breathing on ECMO 14:15 - 14:30
  Speaker: Luigi Camporota (United Kingdom)

- Progressive decrease of respiratory rate and development of atelectasis during extracorporeal support 14:30 - 14:40

- Personalized mechanical ventilation on ECMO 14:40 - 14:55
  Speaker: Daniel Talmor (United States of America)
**Prone position on ECMO: Management and expectation?**  
Speaker: Matthieu Schmidt (France)  

**Invasive ventilation with VV-ECMO: An old concept?**  
Speaker: Luciano Gattinoni (Germany)  

**Roundtable: How to ventilate on ECMO**  
Speaker: Darryl Abrams (United States of America)  
Speaker: Luigi Camporota (United Kingdom)  
Speaker: Daniel Talmor (United States of America)  
Speaker: Matthieu Schmidt (France)  
Speaker: Luciano Gattinoni (Germany)  

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**Pediatric Session**  
14:00 - 16:00  
Mountbatten  

**Neonatal and pediatric ECMO: Pushing the boundaries**  
Chair: David Cooper (United States of America)  
Chair: Jana Assy (Lebanon)  
Chair: Kenneth Palmér (Sweden)  

**Bronchodysplasia, chronic lung disease and ECMO: An update**  
Speaker: Andrea Moscatelli (Italy)  

**Intoxications**  
Speaker: Matthew Paden (United States of America)  

**Univentricular heart disease - Cavopulmonary connections**  
Speaker: Malaika Mendonca (Switzerland)  

**Multisystem disease - Rheumatological and metabolic conditions**  
Speaker: Graeme MacLaren (Singapore)  

**Severe chromosomal abnormalities and multiple morbidities**  
Speaker: Francisco Abecasis (Portugal)  

**Birth asphyxiated neonate**  
Speaker: Mark Ogino (United States of America)  

**Roundtable: Clinical case discussion - How to decide ECMO candidacy in a complex case?**  
Speaker: Andrea Moscatelli (Italy)  
Speaker: Matthew Paden (United States of America)  
Speaker: Malaika Mendonca (Switzerland)  
Speaker: Peter Roeleveld (Netherlands)  
Speaker: Francisco Abecasis (Portugal)  

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**Nurse Session**  
14:00 - 16:00  
St. James  

**Nursing - Where are we now - Future**  
Chair: Sabine Valera (France)  
Chair: Jo-Anne Fowles (United Kingdom)  

**How do I take care of a patient on ECMO today?**  
Speaker: Serena O’Brien (Ireland)  

**Should ECMO be in the general ICU nursing?**  
Speaker: Monika Tukacs (United States of America)  

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Lung recruitment and strategies to enhance lung recovery – A physiotherapist’s perspective
Speaker: Emma Shkurka (United Kingdom)
14:30 - 14:45

Fluid management in pediatric patients on extracorporeal membrane oxygenation
Speaker: Angelo Polito (Switzerland)
14:45 - 15:00

Lived experience of memories and post traumatic stress in adult patients after extracorporeal membrane oxygenation: A follow-up program
15:00 - 15:10

Nurse should change the ECMO circuit (PRO)
Speaker: Ann Alexanderson (Sweden)
15:10 - 15:25

Nurse should change the ECMO circuit (CON)
Speaker: Nicola Agnew (United Kingdom)
15:25 - 15:40

Roundtable: Complications VV-ECMO Q&A
Speaker: Serena O’Brien (Ireland)
Speaker: Monika Tukacs (United States of America)
Speaker: Emma Shkurka (United Kingdom)
Speaker: Angelo Polito (Switzerland)
Speaker: Ann Alexanderson (Sweden)
Speaker: Nicola Agnew (United Kingdom)
15:40 - 15:55

Cardiac monitoring on ECMO
Chair: Bruno Lévy (France)
Chair: Holger Thiele (Germany)
14:00 - 16:00

Monitoring a patient on VA-ECMO in the ICU
Speaker: Marcin Ligowski (Poland)
14:00 - 14:15

Do existing and novel biomarkers have a role in ECMO?
Speaker: Theresa McDonagh (United Kingdom)
14:15 - 14:30

Echocardiography on VA-ECMO - Assessing progress
Speaker: Dirk Donker (Netherlands)
14:30 - 14:45

Assessing cardiac progress - Are there alternatives to echo?
Speaker: Santiago Montero (Spain)
14:45 - 15:00

Multidisciplinary rehabilitation of patients with a Protek Duo cannula for right ventricular support is feasible, safe and effective: A case series
15:00 - 15:10

Assessing the right ventricle on VA-ECMO
Speaker: Federico Pappalardo (Italy)
15:10 - 15:25

Understanding cardiac physiology on ECMO in the cath lab
Speaker: Marko Noc (Slovenia)
15:25 - 15:40

Roundtable: Ideal cardiac monitoring
Speaker: Marcin Ligowski (Poland)
Speaker: Theresa McDonagh (United Kingdom)
Speaker: Dirk Donker (Netherlands)
Speaker: Santiago Montero (Spain)
Speaker: Federico Pappalardo (Italy)
Speaker: Marko Noc (Slovenia)
15:40 - 15:55
Perfusionist Session
14:00 - 16:00

Perfusion - Membrane material session
Chair: Lisa Prahl Wittberg (Sweden)
Chair: Jonathan Millar (Ireland)

Assessing oxygenator performance
Speaker: Alois Philipp (Germany) 14:00 - 14:15

Impact of membrane lung design and sweep gas on gas exchange
Speaker: Sascha Gross-Hardt (Germany) 14:15 - 14:30

Future materials for membrane lung
Speaker: Jutta Arens (Germany) 14:30 - 14:45

Pulsatile perfusion with high flow rates and high rotational speeds cause more hemolysis compared to the conventional non-pulsatile ECLS
14:45 - 14:55

Activation of haemostatic mechanisms by the membrane lung
Speaker: Beverley Hunt (United Kingdom) 14:55 - 15:10

Novel membrane lungs
Speaker: Antonella Degani (Italy) 15:10 - 15:25

Enhancing CO2 clearance
Speaker: Alberto Zanella (Italy) 15:25 - 15:40

Roundtable with the industry
Speaker: Alois Philipp (Germany) 15:40 - 15:55
Speaker: Sascha Gross-Hardt (Germany)
Speaker: Jutta Arens (Germany)
Speaker: Beverley Hunt (United Kingdom)
Speaker: Antonella Degani (Italy)
Speaker: Alberto Zanella (Italy)

Pediatric Session
14:00 - 16:00

Pediatric Mechanics of the Circuit: How can we make the circuit last longer?
Chair: Antonio Amodeo (Italy)

The view of the ECMO co-ordinator
Speaker: Gillian Wylie (United Kingdom) 14:00 - 14:15

The view of the perfusionist
Speaker: Leen Vercaemst (Belgium) 14:15 - 14:30

The view of the physician
Speaker: Claire Westrope (United Kingdom) 14:30 - 14:45

The least expensive centrifugal pump achieves the best hemodynamic performance in neonatal and pediatric ECMO circuits
14:45 - 14:55

The ideal pediatric circuit
14:55 - 15:10

New insights from the lab
Speaker: John Toomasian (United States of America) 15:10 - 15:25

The implantable artificial lung - Is this real?
Speaker: Tom Verbelen (Belgium) 15:25 - 15:40
**Roundtable**

15:40 - 15:55

Speaker: Gillian Wylie (United Kingdom)
Speaker: Leen Vercaemst (Belgium)
Speaker: Claire Westrope (United Kingdom)
Speaker: John Toomasian (United States of America)
Speaker: Tom Verbelen (Belgium)

**Educational Corner**

15:00 - 16:00

**Byron**

**Troubleshooting in VV-ECLS 4**

Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

Chair: Chirine Mossadegh (France)

**Burns**

**Ultrasound in ECLS cannulation and during the ECLS run 2**

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartlomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

**Chaucer**

**ECLS Ped sim advanced 2**

Through clinical scenarios, learners will gain the knowledge about common, frequently occurring causes as well as rare, not so frequently occurring causes of desaturation on VV ECLS in pediatric patients.

Chair: Maura O'Callaghan (United Kingdom)
Chair: Mirjana Cvetkovic (United Kingdom)

**Wesley**

**ECPR in OHCA 4**

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest. Trainers are: Justyna Swol, Matthias Baumgartel, Katrin Buttler, Katrin Emmrich, Steffen Nietzold, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgartel (Germany)
**Troubleshooting in VV-ECLS 5**

Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

Chair: Chirine Mossadegh (France)

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**Ultrasound in ECLS cannulation and during the ECLS run 3**

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartłomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

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**Ped ECLS basics troubleshooting 3**

This immersive hands-on workshop will employ the most up-to-date technology and techniques involving the clinical use of ECLS in pediatric patients.

Chair: Maura O'Callaghan (United Kingdom)
Chair: Mirjana Cvetkovic (United Kingdom)

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**Post-resuscitation care after ROSC by ECPR in adult 3**

Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.

Chair: Shingo Ichiba (Japan)

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**ECMO support in the cath lab**

Chair: Susanna Price (United Kingdom)
Chair: Federico Pappalardo (Italy)

- **High risk PCI under ECMO support**
  
  16:45 - 17:00

- **Support for post PCI cardiogenic shock**
  
  Speaker: Tony Gershlick (United Kingdom)
  
  17:00 - 17:15

- **Peri procedural anticoagulation/antiplatelet therapy on ECMO**
  
  Speaker: Uwe Zeymer (Germany)
  
  17:15 - 17:30

- **Impella CP or PA cannula in cardiogenic shock support with VA-ECMO**
  
  17:30 - 17:40

  Left ventricular unloading and organ perfusion in a porcine animal model
Meet the experts around a complex case
Speaker: Jan Belohlávek (Czech Republic)
Speaker: Tony Gershlick (United Kingdom)
Speaker: Holger Thiele (Germany)
Speaker: Christian Hassager (Denmark)

Adult Session
16:45 - 18:45
Churchill

Adult Respiratory - CO2 removal
Chair: Leo Heunks (Netherlands)
Chair: Alberto Zanella (Italy)

Does ECCO2R only play with PaCO2?
Speaker: Christian Karagiannidis (Germany)

16:45 - 17:00
ECCO2R for COPD
Speaker: Daniel Brodie (United States of America)

17:00 - 17:15
New technologies for ECCO2R
Speaker: Antonio Pesenti (Italy)

17:15 - 17:30
Applying a LASSO algorithm on the University Hospital Regensburg ECMO registry to identify factors predicting membrane oxygenator durability

17:30 - 17:40
ECCO2R for mild to moderate ARDS: Mechanical ventilation is still enough! (PRO)
Speaker: Marco Ranieri (Italy)

17:40 - 17:55
ECCO2R for mild to moderate ARDS: Mechanical ventilation is still enough! (CON)
Speaker: Alain Combes (France)

17:55 - 18:10
Roundtable: What is the future for ECCO2R?
Speaker: Christian Karagiannidis (Germany)
Speaker: Daniel Brodie (United States of America)
Speaker: Antonio Pesenti (Italy)
Speaker: Marco Ranieri (Italy)

18:10 - 18:40

Pediatric Session
16:45 - 18:45
Mountbatten

Pediatric ECPR
Chair: Shri Deshpande (United States of America)
Chair: Tim Jones (United Kingdom)

From cardiac arrest to ECPR in children: A physiologic approach
Speaker: Peter Roeleveld (Netherlands)

16:45 - 17:00
Optimal settings on ECMO at initiation and in the first few hours of ECPR
Speaker: Tim Thiruchelvam (United Kingdom)

17:00 - 17:15
Out of hours ECPR – Practical challenges
Speaker: Francisco Abecasis (Portugal)

17:15 - 17:30
Simulation based system testing and scripted event debriefing as tools for strong ECPR team building

17:30 - 17:40
All pediatric patients with cardiac arrest should receive ECPR (PRO)
Speaker: Anne-Marie Guerguerian (Canada)

17:40 - 17:55
All pediatric patients with cardiac arrest should receive ECPR (CON)  
Speaker: Mark Davidson (United Kingdom)  

Roundtable: My ECPR system and outcome  
Speaker: Peter Roeleveld (Netherlands)  
Speaker: Tim Thiruchelvam (United Kingdom)  
Speaker: Francisco Abecasis (Portugal)  
Speaker: Anne-Marie Guerguerian (Canada)  
Speaker: Mark Davidson (United Kingdom)  

Nurse Session  
16:45 - 18:45  
St. James  

Nursing - State-of-the-art in VV-ECMO  
Chair: Arthur Slutsky (Canada)  
Chair: Ann Alexanderson (Sweden)  

VV-ECMO: Indications after the EOLIA trial  
Speaker: Peter Schellongowski (Austria)  

VVA ECMO principles and management  
Speaker: Chirine Mossadegh (France)  

Mechanical ventilation on VV-ECMO  
Speaker: Matthieu Schmidt (France)  

Psychological needs of awake VV-ECMO patients and families - Non response to treatment of acute respiratory distress syndrome and transition to palliative care  

Ambulation on VV-ECMO: Practical aspects  
Speaker: Kathleen Daly (United Kingdom)  

VV-ECMO and prone position  
Speaker: Sabine Valera (France)  

Roundtable: Nursing in VV-ECMO - Karolinska, Paris, Italy, UK, Germany, Eastern Europe  
Speaker: Peter Schellongowski (Austria)  
Speaker: Chirine Mossadegh (France)  
Speaker: Matthieu Schmidt (France)  
Speaker: Kathleen Daly (United Kingdom)  
Speaker: Sabine Valera (France)  

Adult Session  
16:45 - 18:45  
Westminster  

Infections and ECMO  
Chair: Konstanty Szuldrzyński (Poland)  

ECMO and pandemics  
Speaker: Olaf Cremer (Netherlands)  

What should I know about MERS CoV?  
Speaker: Ibrahim Fawzy (Qatar)  

Novel diagnostics  
Speaker: Meera Chand (United Kingdom)  

The impact of microbial colonization of membrane oxygenators on clinical outcomes  

Scientific Programme
How to prevent ECMO related infections? 17:40 - 17:55
Speaker: John Fraser (Australia)

COVID-19 pandemia in China 17:55 - 18:10
Speaker: Xiaotang Hou (China)

Antimicrobials pharmacokinetics on ECMO 18:10 - 18:25
Speaker: Kiran Shekar (Australia)

Roundtable 18:25 - 18:40
Speaker: Olaf Cremer (Netherlands)
Speaker: Ibrahim Fawzy (Qatar)
Speaker: Meera Chand (United Kingdom)
Speaker: John Fraser (Australia)
Speaker: Xiaotang Hou (China)
Speaker: Kiran Shekar (Australia)

Perfusionist Session
16:45 - 18:45
Windsor

Perfusion - Circuits
Chair: Prakash Punjabi (United Kingdom)
Chair: Alois Philipp (Germany)

Standardising assessment for circuits 16:45 - 17:00
Speaker: Sascha Gross-Hardt (Germany)

CO2 removal integrated with renal replacement therapy 17:00 - 17:15
Speaker: Giacomo Grasseli (Italy)

Centrifugal pumps: Pump efficiency through flow range 17:15 - 17:30
Speaker: Lisa Prahl Wittberg (Sweden)

Quantification of recirculation during veno-venous extracorporeal membrane oxygenation: In vitro evaluation of a thermodilution technique 17:30 - 17:40

Fast priming for ECPR, impact of circuit design 17:40 - 17:55
Speaker: Alice Hutin (France)

Designing the perfect circuit for adult ECMO 17:55 - 18:10
Speaker: Filip De Somer (Belgium)

Roundtable with the industry 18:10 - 18:40

Pediatric Session
16:45 - 18:45
Moore

Pediatric - Advances in monitoring on ECMO
Chair: Jonathan Smith (United Kingdom)
Chair: Malaika Mendonca (Switzerland)

Neuromonitoring: Invasive and non-invasive monitoring 16:45 - 17:00
Speaker: Melania Bembea (United States of America)

Advances in neuroimaging on ECMO 17:00 - 17:15
Speaker: Anne-Marie Guerguerian (Canada)

New ways of cardiac monitoring - Advances in echocardiography 17:15 - 17:30
Speaker: Joan Sanchez de Toledo (Spain)

Understanding neurologic injuries in pediatric extracorporeal membrane oxygenation (ECMO) 17:30 - 17:40
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>17:40 - 17:55</td>
<td>Assessing the microcirculation on ECMO</td>
<td>Dick Tibboel (Netherlands)</td>
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<td>17:55 - 18:10</td>
<td>Therapeutic drug monitoring on ECMO</td>
<td>Enno Wildschut (Netherlands)</td>
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<tr>
<td>18:10 - 18:25</td>
<td>Newer modalities of monitoring lung function on ECMO</td>
<td>Matteo Di Nardo (Italy)</td>
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</tbody>
</table>
| 18:25 - 18:40 | Roundtable: Future advances in monitoring                                                          | Melanie Bembea (United States of America)  
Enno Wildschut (Netherlands)  
Matteo Di Nardo (Italy)       |              |

**Educational Corner**  
17:45 - 18:45  
**Troubleshooting in VV-ECLS 6**  
Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.  
Chair: Chirine Mossadegh (France)

**Ultrasound in ECLS cannulation and during the ECLS run 4**  
Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartlomiej Perek, Marek Dabrowski, Piotr Ziemak.  
Chair: Mateusz Puslecki (Poland)

**ECLS Ped sim advanced 3**  
Through clinical scenarios, learners will gain the knowledge about common, frequently occurring causes as well as rare, not so frequently occurring causes of desaturation on VV ECLS in pediatric patients.  
Chair: Maura O’Callaghan (United Kingdom)  
Chair: Mirjana Cvetkovic (United Kingdom)

**Post-resuscitation care after ROSC by ECPR in adult 4**  
Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.  
Chair: Shingo Ichiba (Japan)
Social Event
18:45 - 19:45  Fleming

Come together reception and moderated posters walk 2

Social Event
20:00 - 22:00  Fleming

Congress Reception & ELSO Excellence Awards at Westminster Cloisters (Fee-based)
Friday, 08 May 2020

Industry
08:00 - 08:45  St. James

Industry sponsored session/symposia

Industry
08:00 - 08:45  Windsor

Industry sponsored session/symposia

Adult Session
09:00 - 10:00  Fleming

Immunocompromised patients
Chair: Christian Karagiannidis (Germany)
Chair: Matthieu Schmidt (France)

ECMO in patients with HIV  09:00 - 09:15
Speaker: Thomas Staudinger (Austria)

Diagnosing the cause of acute respiratory failure in immunocompromised patients  09:15 - 09:30
Speaker: Sangita Agarwal (United Kingdom)

VV-ECMO referrals for acute refractory respiratory failure: Exploring the main causes for not offering ECMO in a tertiary referral center  09:30 - 09:40

Outcome of immunocompromised patients on ECMO  09:40 - 09:55
Speaker: Vincent Pellegrino (Australia)

Adult Session
09:00 - 10:00  Churchill

Adult multidisciplinary team (MDT)
Chair: Nicholas Barrett (United Kingdom)
Chair: Daniel Brodie (United States of America)

Frailty - Impact on ECMO outcomes  09:00 - 09:15
Speaker: Alain Vuylsteke (United Kingdom)

Measuring VO2 and VCO2 on ECMO  09:15 - 09:30
Speaker: Mirko Belliato (Italy)

Optimising nutrition on ECMO - Can the circuit help?  09:30 - 09:45
Speaker: Danielle Bear (United Kingdom)

Optimising exercise on ECMO - How can we use the circuit?  09:45 - 10:00
Speaker: Daniel Herr (United States of America)
Pediatric Session
09:00 - 10:00

**Pediatric - Anticoagulation**

Chair: Uri Pollak (Israel)
Chair: Melania Bembea (United States of America)
Chair: Anne-Marie Guerguerian (Canada)

- **Monitoring anticoagulation in ECMO: Do we need sophisticated tests?**
  Speaker: Dirk Vlasselaers (Belgium)
  Time: 09:00 - 09:15

- **Individualised anticoagulation strategies - No one size fits all**
  Speaker: Marco Ranucci (Italy)
  Time: 09:15 - 09:30

- **Heparin: Your time is up! (PRO)**
  Speaker: Graeme MacLaren (Singapore)
  Time: 09:30 - 09:45

- **Heparin: Your time is up! (CON)**
  Speaker: Graeme MacLaren (Singapore)
  Time: 09:45 - 10:00

Adult Session
09:00 - 10:00

**ECMO in the multiple organ failure patient**

Chair: Bishoy Zachary (United States of America)
Chair: Rodrigo Diaz (Chile)

- **Selection of ECMO patients with concomitant liver failure**
  Speaker: Rob Loveridge (United Kingdom)
  Time: 09:00 - 09:15

- **Renal dysfunction and ECMO**
  Speaker: Indrek Rätsep (Estonia)
  Time: 09:15 - 09:30

- **Mechanical ventilation in VA-ECMO**
  Speaker: Martin Balik (Czech Republic)
  Time: 09:30 - 09:45

- **ECMO and neurotrauma**
  Speaker: Justyna Swol (Germany)
  Time: 09:45 - 10:00

Adult Session
09:00 - 10:00

**Quality metrics and quality improvement**

Chair: Matthew Paden (United States of America)
Chair: Aparna Hoskote (United Kingdom)
Chair: Andrea Moscatelli (Italy)

- **Balancing rising cost with quality of life years gained**
  Speaker: Katherine Brown (United Kingdom)
  Time: 09:00 - 09:07

- **The role of the ELSO registry: The ELSO quality metrics**
  Speaker: Ryan Barbaro (United States of America)
  Time: 09:07 - 09:14

- **A framework for conversations during pediatric extracorporeal membrane oxygenation support**
  Time: 09:14 - 09:21

- **QI Pecha kucha**
  Speaker: Ibrahim Fawzy (Qatar)
  Time: 09:21 - 09:28

- **QI Pecha kucha**
  Speaker: Leen Vercaemst (Belgium)
  Time: 09:28 - 09:35
QI Pecha kucha  
Speaker: Peter Roeleveld (Netherlands)  
09:35 - 09:42

Adult Session  
09:00 - 10:00  
Windor

Animal Models  
Chair: Uli Steinseifer (Germany)  
Chair: John Fraser (Australia)  
Chair: Brijesh Patel (United Kingdom)

Animal models for VV-ECMO  
Speaker: Kiran Shekar (Australia)  
09:00 - 09:15

Animal models for ECMO-CPR  
Speaker: Mikulas Mlcek (Czech Republic)  
09:15 - 09:30

Animal models for VA-ECMO  
Speaker: Jonathan Millar (Ireland)  
09:30 - 09:45

Roundtable: The ideal animal model  
Speaker: Kiran Shekar (Australia)  
Speaker: Mikulas Mlcek (Czech Republic)  
Speaker: Jonathan Millar (Ireland)  
09:45 - 10:00

Teach Program / Workshop  
09:00 - 10:00  
Moore

Coffee corner: Meet and discuss with the experts  
Chair: Luigi Camporota (United Kingdom)

EOLIA: What's next?  
Speaker: Antonio Pesenti (Italy)  
Speaker: Arthur Slutsky (Canada)  
Speaker: Alain Combes (France)  
09:00 - 10:00

Educational Corner  
09:00 - 10:00  
Byron

ECLS in cardiac arrest 1  
This workshop provides the insights to management of simulated cardiac arrest and all the necessary procedures required to start an ECLS in arresting patient. Participants are given a structured approach that they are welcome to use or modify in their own institutions with focus on team working, non technical skills and specific defined roles throughout the simulation. Trainers are: Alex Rosenberg, Brad Pates, Cindy Dutton, Matt Bell, Sagar Haval and Gary Notely.

Moderator: Alex Rosenberg (United Kingdom)
**Educational Corner**

09:00 - 10:00

**Ultrasound in ECLS cannulation and during the ECLS run 5**

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartłomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

**CRRT and plasma exchange on ECLS made easy 1**

This workshop demonstrates the practice of managing the ECLS patient requiring haemofiltration (CRRT) and/or plasma exchange. Trainers are: Jo-anne Fowles, Margaret Farley, Rhea Durgahee.

Chair: Jo-Anne Fowles (United Kingdom)
Chair: Margaret Farley (United Kingdom)

**ECPR in OHCA 7**

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest. Trainers are: Justyna Swol, Matthias Baumgärtel, Katrin Buttler, Katrin Emmrich, Steffen Nietzold, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)

**EcMO in adult cardiothoracic surgery/ interventional cardiology**

Chair: Vincent Pellegrino (Australia)
Chair: Roberto Lorusso (Netherlands)

- **Acute cardiac complications: Urgent cardiac surgery is better than ECMO stabilisation (PRO)** 10:30 - 10:45
- **Acute cardiac complications: Urgent cardiac surgery is better than ECMO stabilisation (CON)** 10:45 - 11:00
- **ECMO post cardiotomy: Rescue or routine?** Speaker: Bart Meyns (Belgium) 11:00 - 11:15
- **Post-cardiotomy veno-arterial extracorporeal membrane oxygenation in adult patients. Analysis of 25 years of experience with 8,053 cases from the ELSO Registry** 11:15 - 11:25
- **ECMO to improve INTERMACS and outcomes: Have we made any progress?** 11:25 - 11:40
- **Mechanical circulatory support protected PCI is better than urgent CABG (PRO)** Speaker: Felix Hennig (Germany) 11:40 - 11:55
Mechanical circulatory support protected PCI is better than urgent CABG (CON)
Speaker: Christian Hassager (Denmark)

What's next in the pipeline? The industry prospective...

Adult Session
10:30 - 12:30

Adult MDT - Awake ECMO
Chair: Daniel Herr (United States of America)
Chair: Kenneth Palmér (Sweden)
Chair: Monika Tukacs (United States of America)

How to preserve peripheral muscle?
Speaker: Steffen Weber-Carstens (Germany)

Mobilisation on VV-ECMO
Speaker: Thomas Staudinger (Austria)

Mobilisation on VA-ECMO
Speaker: Cara Agerstrand (United States of America)

Feasibility and safety of awake extracorporeal membrane oxygenation in patients with severe acute respiratory distress syndrome

Chest clearance in the awake ECMO patient
Speaker: Kelly Morris (United Kingdom)

Speech and language assessment on ECMO
Speaker: Christina Iezzi (United Kingdom)

Managing respiratory drive in awake ECMO
Speaker: Giacomo Grasseli (Italy)

Managing the patient/family during awake ECMO
Speaker: Laura Head (United Kingdom)

Pediatric Session
10:30 - 12:30

Challenges in pediatric ECMO
Chair: Enno Wildschut (Netherlands)
Chair: Francisco Abecasis (Portugal)
Chair: Giles Peek (United States of America)

Mobile ECMO - Primary versus secondary transfer
Speaker: Lars Mikael Broman (Sweden)

Peri-heart transplant ECLS: Challenges
Speaker: Fabrizio De Rita (United Kingdom)

Withholding ECMO is better than withdrawing (PRO)
Speaker: Giuseppina Testa (Italy)

Withholding ECMO is better than withdrawing (CON)
Speaker: Joe Brierley (United Kingdom)

When parental expectations become unrealistic and moral distress sets in
Speaker: Brigitte Stiller (Germany)
**Is it really real?**
Speaker: Mirjana Cvetkovic (United Kingdom)
Speaker: Ajay Desai (United Kingdom)
Speaker: Jon Lillie (United Kingdom)

**Debriefing**
Speaker: Mirjana Cvetkovic (United Kingdom)

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**Bridge to destination in respiratory failure**
Chair: Mirko Belliato (Italy)
Chair: Inez Frerichs (Germany)

**Weaning the long-stay VV-ECMO patient**
Speaker: Kiran Shekar (Australia)

**Unweanable ECMO patients: When should we consider transplantation?**
Speaker: Jordi Riera (Spain)

**Veno-arterial-venous extracorporeal membrane oxygenation as a bridge to lung transplantation**

**Transplant from ECMO - Managing patient psychology**
Speaker: Melissa Sanchez (United Kingdom)

**Lung transplant on ECMO, what is different from the surgical side?**
Speaker: Andre Simon (United Kingdom)

**Ex-vivo lung perfusion: Technical aspects and outcome**
Speaker: Alberto Zanella (Italy)

**Prognosis after lung transplant on ECMO?**

**Roundtable: Transplant from ECMO**
Speaker: Kiran Shekar (Australia)
Speaker: Jordi Riera (Spain)
Speaker: Melissa Sanchez (United Kingdom)
Speaker: Andre Simon (United Kingdom)
Speaker: Alberto Zanella (Italy)

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**Education**
Chair: Chirine Mossadegh (France)
Chair: Simon Finney (United Kingdom)
Chair: Malaika Mendonca (Switzerland)

**How to build a multidisciplinary simulation program**
Speaker: Simon Sin (Hong Kong)

**Simulation - Human factors**
Speaker: Rodrigo Diaz (Chile)

**How many holes in your Swiss cheese? Getting real with human error**

**Simulation - ECMO simulators**
Speaker: Santiago Montero (Spain)
<table>
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<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>ELSO education project</strong></td>
<td>11:25 - 11:40</td>
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<tr>
<td>Speaker: Bishoy Zachary (United States of America)</td>
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<tr>
<td><strong>Is education without simulation still valid?</strong></td>
<td>11:40 - 11:55</td>
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<td>Speaker: Lise Piquilloud (Switzerland)</td>
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<tr>
<td><strong>Roundtable: How to improve ECMO education in Europe</strong></td>
<td>11:55 - 12:25</td>
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<td>Speaker: Simon Sin (Hong Kong)</td>
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**Anticoagulation and biocompatibility**

Chair: Andrew Retter (United Kingdom)
Chair: Jonathan Millar (Ireland)

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<thead>
<tr>
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<tbody>
<tr>
<td><strong>Assessing biocompatibility in the lab</strong></td>
<td>10:30 - 10:45</td>
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<td>Speaker: Jonathan Millar (Ireland)</td>
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<tr>
<td><strong>Current and future coatings</strong></td>
<td>10:45 - 11:00</td>
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<tr>
<td>Speaker: Jutta Arens (Germany)</td>
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<td><strong>High levels of plasma von Willebrand Factor indicate an ongoing</strong></td>
<td>11:00 - 11:10</td>
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<td><strong>coagulation disorder with reduced oxygenator performance</strong></td>
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<td>Speaker: Annemieke Lansink-Hartgring (Netherlands)</td>
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<td><strong>Optimal anticoagulation targets on ECMO</strong></td>
<td>11:10 - 11:25</td>
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<td>Speaker: Marco Ranucci (Italy)</td>
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<td><strong>Thrombocyte function testing</strong></td>
<td>11:25 - 11:40</td>
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<tr>
<td>Speaker: Marco Ranucci (Italy)</td>
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<td><strong>HIT and ECMO</strong></td>
<td>11:40 - 11:55</td>
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<td>Speaker: Bruno Lévy (France)</td>
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<td><strong>Non-heparin anticoagulation - Which is the best?</strong></td>
<td>11:55 - 12:10</td>
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<tr>
<td>Speaker: Beverley Hunt (United Kingdom)</td>
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<td><strong>Roundtable</strong></td>
<td>12:10 - 12:25</td>
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<tr>
<td>Speaker: Jonathan Millar (Ireland)</td>
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**ECLS in cardiac arrest**

This workshop provides the insights to management of simulated cardiac arrest and all the necessary procedures required to start an ECLS in arresting patient. Participants are given a structured approach that they are welcome to use or modify in their own institutions with focus on team working, non technical skills and specific defined roles throughout the simulation. Trainers are: Alex Rosenberg, Brad Pates, Cindy Dutton, Matt Bell, Sagar Haval and Gary Notely.

Chair: Alex Rosenberg (United Kingdom)
Educational Corner
10:30 - 11:30

Ultrasound in ECLS cannulation and during the ECLS run 6

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartłomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

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Educational Corner
10:30 - 11:30

CRRT and plasma exchange on ECLS made easy 2

This workshop demonstrates the practice of managing the ECLS patient requiring haemofiltration (CRRT) and/or plasma exchange. Trainers are: Jo-anne Fowles, Margaret Farley, Rhea Durgahsee.

Chair: Jo-Anne Fowles (United Kingdom)
Moderator: Margaret Farley (United Kingdom)

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Educational Corner
10:30 - 11:30

ECPR in OHCA 8

This workshop provides the insights how to perform cannulation via percutaneous vascular access during resuscitation of the arresting patient using mechanical circulatory support system in out-of-hospital cardiac arrest. Trainers are: Justyna Swol, Matthias Baumgärtel, Katrin Buttler, Katrin Emmrich, Steffen Nietzsche, Domagoj Damjanovic.

Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)

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Teach Program / Workshop
11:15 - 12:00

Coffee corner: Meet and discuss with the experts

Chair: Thomas Müller (Germany)

The future of treatment in cardiogenic shock
Speaker: Holger Thiele (Germany)
Speaker: Alain Combes (France)
Speaker: Tony Gershlick (United Kingdom)
Speaker: Susanna Price (United Kingdom)

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Educational Corner
11:45 - 12:45

ECLS in cardiac arrest 3

This workshop provides the insights to management of simulated cardiac arrest and all the necessary procedures required to start an ECLS in arresting patient. Participants are given a structured approach that they are welcome to use or modify in their own institutions with focus on team working, non technical skills and specific defined roles throughout the simulation. Trainers are: Alex Rosenberg, Brad Pates, Cindy Dutton, Matt Bell, Sagar Haval and Gary Notley.

Chair: Alex Rosenberg (United Kingdom)
Ultrasound in ECLS cannulation and during the ECLS run 7

Virtual reality simulation for ultrasound use and echocardiography (TTE and TEE) in ECMO cannulation and during the ECMO run. Trainers are: Mateusz Puslecki, Marcin Ligowski, Sebastian Stefaniak, Bartłomiej Perek, Marek Dabrowski, Piotr Ziemak.

Chair: Mateusz Puslecki (Poland)

CRRT and plasma exchange on ECLS made easy 3

This workshop demonstrates the practice of managing the ECLS patient requiring haemofiltration (CRRT) and/or plasma exchange. Trainers are: Jo-anne Fowles, Margaret Farley, Rhea Durgahoe.

Chair: Jo-Anne Fowles (United Kingdom)
Chair: Margaret Farley (United Kingdom)

ECPR in OHCA

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Chair: Justyna Swol (Germany)
Chair: Matthias Baumgärtel (Germany)
ECLS in cardiac arrest 4

This workshop provides the insights to management of simulated cardiac arrest and all the necessary procedures required to start an ECLS in arresting patient. Participants are given a structured approach that they are welcome to use or modify in their own institutions with focus on team working, non technical skills and specific defined roles throughout the simulation. Trainers are: Alex Rosenberg, Brad Pates, Cindy Dutton, Matt Bell, Sagar Haval and Gary Notely.

Troubleshooting in VV-ECLS 7

Indications for extracorporeal pulmonary support, components of VV-ECLS circuit, troubleshooting. Trainers are: Chirine Mossadegh, Hugo Guillou, Raphaele Morfin, Sacha Rozencwajg, Sabine Valera.

CRRT and plasma exchange on ECLS made easy 4

This workshop demonstrates the practice of managing the ECLS patient requiring haemofiltration (CRRT) and/or plasma exchange. Trainers are: Jo-anne Fowles, Margaret Farley, Rhea Durgahee.

Post-resuscitation care after ROSC by ECPR in adult 5

Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.

Adult ECPR

Chair: Alain Combes (France)  
Chair: Thomas Müller (Germany)

ECMO CPR for out of hospital cardiac arrest (PRO) 14:00 - 14:15  
Speaker: Jan Belohlávek (Czech Republic)

Out of hospital ECMO-CPR is worthwhile (CON) 14:15 - 14:30  
Speaker: Alain Vuylsteke (United Kingdom)

Validation of institutional guideline for ECPR initiation and predictors of good outcome 14:30 - 14:40

Selecting the ideal ECMO-CPR patient 14:40 - 14:55  
Speaker: Tomoyuki Endo (Japan)

What are the available logistics strategies to reduce the low flow time? 14:55 - 15:10  
Speaker: Lionel Lamhaut (France)
**Adult Session**
14:00 - 16:00  
Churchill

**Adult MDT - Follow-up after ECMO**
Chair: Cara Agerstrand (United States of America)  
Chair: Laura Head (United Kingdom)

**Long term outcomes in VV-ECMO**  
Speaker: Giacomo Grasseli (Italy)

**Long term outcomes in VA-ECMO**  
Speaker: Nicholas Hart (United Kingdom)

**Respiratory muscle function after ECMO**  
Speaker: Nicholas Hart (United Kingdom)

**Preserving diaphragm function: Does electrostimulation have a role?**  
Speaker: Leo Heunks (Netherlands)

**Oral abstract**

**Economic impact on the individual and society in Europe**  
Speaker: Annemieke Lansink-Hartgring (Netherlands)

**Economics of ECMO in low income countries in Europe**  
Speaker: Indrek Rätsep (Estonia)

**Roundtable: What can we do to improve quality of survivorship?**
Speaker: Giacomo Grasseli (Italy)  
Speaker: Nicholas Hart (United Kingdom)  
Speaker: Leo Heunks (Netherlands)  
Speaker: Annemieke Lansink-Hartgring (Netherlands)  
Speaker: Indrek Rätsep (Estonia)

**Pediatric Session**
14:00 - 16:00  
Mountbatten

**Pediatric weaning from ECMO: Optimal timing and strategy**
Chair: Aparna Hoskote (United Kingdom)

**VV-ECMO weaning**  
Speaker: Uri Pollak (Israel)

**VA-ECMO weaning**  
Speaker: Shri Deshpande (United States of America)

**Critical airway supported on ECMO - When to operate, when to wean?**  
Speaker: Ivan Afukov (Russian Federation)

**Weaning ECMO flows - Standard and retrograde - Impact on the circuit? - View from the perfusionist**
Speaker: Filip De Somer (Belgium)

**Retrograde flow on weaning: Pros and cons**  
Speaker: Chris Harvey (United Kingdom)
Failure to wean: Respiratory ECMO strategies to enhance lung recovery  15:15 - 15:30
Speaker: David Cooper (United States of America)

Failure to wean: Cardiac ECMO strategies  15:30 - 15:45
Speaker: Brigitte Stiller (Germany)

Roundtable  15:45 - 16:00
Speaker: Uri Pollak (Israel)
Speaker: Shri Deshpande (United States of America)
Speaker: Ivan Afukov (Russian Federation)
Speaker: Filip De Somer (Belgium)
Speaker: Chris Harvey (United Kingdom)
Speaker: David Cooper (United States of America)
Speaker: Brigitte Stiller (Germany)

Bridge to destination in cardiac failure
Chair: Martin Balik (Czech Republic)
Chair: Andre Simon (United Kingdom)

Cardiac drugs management on ECMO  14:00 - 14:15
Speaker: Bruno Lévy (France)

Determining when a patient cannot be weaned  14:15 - 14:30
Speaker: Dirk Donker (Netherlands)

Can speckle tracking help to guide VA-ECMO weaning? Provisional results of a pilot study  14:30 - 14:40

Ventricular assist devices: Indication and outcome  14:40 - 14:55

Ex-vivo cardiac perfusion: Technical aspects and outcomes  14:55 - 15:10
Speaker: Steven Tsui (United Kingdom)

ECMO should bridge directly to heart transplant (PRO)  15:10 - 15:25
Speaker: Felix Hennig (Germany)

ECMO should bridge directly to heart transplant (CON)  15:25 - 15:40
Speaker: Vincent Pellegrino (Australia)

Roundtable  15:40 - 15:55
Speaker: Bruno Lévy (France)
Speaker: Dirk Donker (Netherlands)
Speaker: Steven Tsui (United Kingdom)
Speaker: Felix Hennig (Germany)
Speaker: Vincent Pellegrino (Australia)

Ethics - Religion, humanism, intensive care
Chair: Steffen Weber-Carstens (Germany)
Chair: Nicholas Barrett (United Kingdom)
Chair: Allan Goldman (United Kingdom)

Ethical dilemmas in intensive care in the ECMO era  14:00 - 14:10
Speaker: Darryl Abrams (United States of America)

The Jewish view  14:10 - 14:20

The Muslim view  14:20 - 14:30
The Christian view 14:30 - 14:40
Speaker: Brendan McCarthy (United Kingdom)

The Humanist view 14:40 - 14:50
Speaker: Simon Nightingale (United Kingdom)

Meet everyone around a complex case 14:50 - 15:50
Speaker: Maura O'Callaghan (United Kingdom)
Speaker: Gillian Wylie (United Kingdom)

Roundtable 15:50 - 16:00
Speaker: Darryl Abrams (United States of America)
Speaker: Brendan McCarthy (United Kingdom)
Speaker: Simon Nightingale (United Kingdom)
Speaker: Maura O'Callaghan (United Kingdom)
Speaker: Gillian Wylie (United Kingdom)

Adult Session
14:00 - 16:00
Windsor

Research - Advances in ECLS
Chair: Christian Karagiannidis (Germany)
Chair: Jutta Arens (Germany)

Experimental strategies for right heart support 14:00 - 14:15
Speaker: Tom Verbelen (Belgium)

How to design the total artificial heart 14:15 - 14:45
Speaker: Uli Steinseifer (Germany)

A novel pneumatic driven ECMO device 14:45 - 15:00
Speaker: Daniel Brodie (United States of America)

3D printing - The future of ECMO? 15:00 - 15:15

Roundtable 15:15 - 15:45

Educational Corner
15:00 - 16:00
Byron

ECLS in cardiac arrest 5
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Chair: Alex Rosenberg (United Kingdom)

Educational Corner
15:00 - 16:00
Burns

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Post-resuscitation care after ROSC by ECPR in adult

Monitoring and management for adult patients after ROSC and ECPR. Trainers are: Shingo Ichiba, Keiki Shimizu, Ichiro Takeuchi, Kensuke Fujita, Hiroyuki Tanaka.

The dark side of adult ECPR

Chair: Lionel Lamhaut (France)
Chair: Jan Belohlávek (Czech Republic)

The role of hypothermia on ECMO
Speaker: Bruno Lévy (France)

Neuroprognostication
Speaker: Daniel Herr (United States of America)

Does the time taken to transport out-of-hospital refractory cardiac arrest patients to a heart attack centre make them ineligible for consideration for extracorporeal cardiopulmonary resuscitation?

Diagnosis brain death on ECMO
Speaker: Nicholas Barrett (United Kingdom)

Organ donation from ECMO
Speaker: Miguel Garcia (United Kingdom)

Discussion with the family
Speaker: Melissa Sanchez (United Kingdom)

Pediatric ECMO: The future - Working towards best outcomes delivered in most efficient way

Chair: Ryan Barbaro (United States of America)
Chair: Virginie Fouilloux (France)
Chair: Giuseppina Testa (Italy)

What is a 'good' outcome?
Speaker: Katherine Brown (United Kingdom)

Benchmarking pediatric ECMO in Europe in the face of practice variations

Does type of extracorporeal membrane oxygenation impact survival in pediatric septic shock?
Variance in practice in VA ECMO and impact on outcomes 17:10 - 17:25
Speaker: Shri Deshpande (United States of America)

Outcome of in hospital and out of hospital cardiac arrest in children 17:25 - 17:40
Speaker: Pierre Louis Leger (France)

Roundtable: Benchmarking outcomes 17:40 - 17:55
Speaker: Katherine Brown (United Kingdom)
Speaker: Shri Deshpande (United States of America)
Speaker: Pierre Louis Leger (France)

**ECLS in special circumstances**

Chair: Justyna Swols (Germany)
Chair: Rob Loveridge (United Kingdom)

**ECMO in pregnancy** 16:30 - 16:45
Speaker: Rodrigo Diaz (Chile)

**ECMO in burn patients** 16:45 - 17:00
Speaker: Marcin Ligowski (Poland)

**Importance of ECMO and early referral in improving outcomes for Hanta Virus and cardiopulmonary syndrome in Chile** 17:00 - 17:10

**ECMO in intoxication** 17:10 - 17:25
Speaker: Nicolas Bréchot (France)

**ECMO in morbid obesity** 17:25 - 17:40
Speaker: Ibrahim Fawzy (Qatar)

**Refractory asthma: ECMO or ECCO2R?** 17:40 - 17:55
Speaker: Brijesh Patel (United Kingdom)

**Acute interstitial lung disease**

Chair: Jordi Riera (Spain)
Chair: Simon Finney (United Kingdom)

**Acute exacerbation of fibrotic lung diseases - Are there any meaningful therapies?** 16:30 - 16:45

**Fibrotic phase ARDS: Is it still a problem in ECMO?** 16:45 - 17:00
Speaker: Thomas Müller (Germany)

**Clinical determinants of arterial saturation in patients with severe respiratory failure on extracorporeal membrane oxygenation** 17:00 - 17:10

**Rheumatological disease mimicking ARDS on ECMO** 17:10 - 17:25
Speaker: Sangita Agarwal (United Kingdom)

**Diagnosis and treatment of acute pulmonary haemorrhage** 17:25 - 17:40
Speaker: Konstanty Szuldrzyński (Poland)

**Roundtable: Is there a role for ECMO in ILD?** 17:40 - 17:55
Speaker: Thomas Müller (Germany)
Speaker: Sangita Agarwal (United Kingdom)
Speaker: Konstanty Szuldrzyński (Poland)
**ECLS in cardiac arrest 6**

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Chair: Alex Rosenberg (United Kingdom)

**Troubleshooting in VV-ECLS 9**

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**CRRT and plasma exchange on ECLS made easy 6**

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Chair: Jo-Anne Fowles (United Kingdom)
Chair: Margaret Farley (United Kingdom)

**Post-resuscitation care after ROSC by ECPR in adult 7**

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Chair: Shingo Ichiba (Japan)

**Plenary Session**

18:00 - 18:30

**Closing**

- **Congress chair summary** 18:00 - 18:13
  Speaker: Nicholas Barrett (United Kingdom)

- **Welcome to Krakow!** 18:13 - 18:25
  Speaker: Konstanty Szuldrzyński (Poland)

- **Summary & Closing** 18:25 - 18:30
  Speaker: Jan Belohlávek (Czech Republic)
Open meeting of the working group "Innovation on ECMO and ECLS"