CONTENTS

Welcome 4
Committees 5
Overview Scientific Programme 6
Adult Pre-Congress and Main Congress 8
Pediatric Pre-Congress and Main Congress 22
Nursing Block - Pre-Congress and Main Congress 28
Perfusion Block 30
Teach Programme 31
Educational Corner 32
ECMO In Experiment Workshop 34
Mechanical Ventilation Workshop Exploring the Model and Management of ARDS 35
Basic Neonatal & Pediatric ECMO Course 36
Invited Faculty 38
Poster Sessions 40
Useful Information 52
Floorplan and Exhibition 54
Industry Sponsored Symposia 55
Social Programme 56
Sponsors 57
Notes 58
Dear colleagues, friends of ECMO!

It is both my pleasure and distinct honor on behalf of the organizing and scientific committees to welcome you at Prague Euro-ELSO 2018 Congress, the 7th European meeting focused on extracorporeal life support therapies.

We are bringing together specialists interested in advanced intensive care to provide a platform for sharing knowledge and gaining experiences with refractory hemodynamic and respiratory clinical states. All aspects of extracorporeal support will be covered and discussed. Intensivists, cardiologists, cardiac surgeons, paediatric and neonatology specialists, perfusionists and ICU nurses will find many inspirations to aid their everyday care and medical routines. All participants will have a broad opportunity to discuss the impact of new technologies on health care systems and new directions in research.

The main congress provides several core parallel educational tracks focused on adult, pediatric and perfusion/nursing topics related to extracorporeal therapies. Preconference in depth sessions comprise animal lab workshop to demonstrate how to set up an experimental protocol, ventilation workshop, neonatal and paediatric ECMO course from A to Z, and meet the expert and “squeeze me” interactive case based sessions and discussions.

I find it immensely important to note that the ELSO community is an openhearted family. The bond formed by experiencing and sharing emotionally heart-wrenching patient stories firmly aids in building mutual understanding among experts and beginners alike and encourages a universal effort to constantly improve. Sharing experiences, both victories and losses, is an integral part of our meetings.

Enjoy the meeting, present your experiences, ask your questions, and be a part of the exciting ECMO community!

Jan Belohlavek, Conference Chair
## EuroELSO scientific programme overview May 23–26, 2018

### Pre-Congress

**TUESDAY 22nd May 2018**
- **Workshop:** ECMO Ex - ECMO in Experiment - Design Your Own
  - 12:00 - 14:00

**WEDNESDAY 23rd May 2018**
- **Dept. Of Physiology, 1st Medical School, Charles University**
  - **South Hall 1 (A+B)**
  - **South Hall 2A**
  - **Workshop:** Ventilation Training in Animal Model: ARDS - before moving to ECMO
  - 9:00 - 13:00
  - **Continued:** Workshop Ventilation Training in Animal Model: ARDS - before moving to ECMO
  - 13:30 - 18:00

**20:00 - 23:00**
- **Faculty dinner**

**THURSDAY 24th May 2018**
- **Congress Hall**
  - **South Hall 1 (A+B)**
  - **South Hall 2A**
  - **Workshop:** ECMO Ex
  - 12:00 - 18:30

**FRIDAY 25th May 2018**
- **Forum Hall**
- **South Hall 1 (A+B)**
- **South Hall 2A**
  - **Breakfast with tutor and his PhD student, tricks in mentoring**
  - 08:00 - 08:55
  - **Early bird session: ECO2R in respiratory failure**
  - 12:30 - 12:45
  - **Late poster sessions**
  - 13:45 - 14:30
  - **Lunch Break**
  - 13:00 - 14:30
  - **Industry sponsored symposium 1**
  - 14:30 - 18:30
  - **Adult ECMO 1**
  - 20:00 - 23:00

**SATURDAY 26th May 2018**
- **Forum Hall**
- **South Hall 1 (A+B)**
- **South Hall 2A**
  - **Call for cases 1**
  - 08:00 - 08:55
  - **Brain perfusion in cardiac arrest**
  - 09:00 - 13:30

### Main Congress

- **11:00 - 11:30**
- **11:30 - 12:00**
- **12:00 - 12:30**
- **12:30 - 13:00**
- **13:00 - 13:30**
- **13:30 - 14:00**
- **14:00 - 14:30**
- **14:30 - 15:00**
- **15:00 - 15:30**
- **15:30 - 16:00**
- **16:00 - 16:30**
- **16:30 - 17:00**
- **17:00 - 17:15**
- **17:15 - 18:30**

**20:00 - 23:00**
- **Social event in ZOFIN Palace**
- **Tea and coffee**

**20:00 - 23:00**
- **Festive Get-Together event in National Technical Museum Prague**
- Exhibition ManMade Man: Technology and Medicine
- Session: We build on history (Bartlett, Bartlett, Lorusso)
- Session: We build on history (Slutsky, Bartlett, Lorusso)

**20:00 - 23:00**
- **Exhibition ManMade Man: Technology and Medicine**
- Session: We build on history (Bartlett, Bartlett, Lorusso)
- Session: We build on history (Slutsky, Bartlett, Lorusso)

### Faculty dinner

**20:00 - 23:00**
- **Tea and coffee**

### Social event in ZOFIN Palace

**20:00 - 23:00**
- **Tea and coffee**

### Main Congress

**20:00 - 23:00**
- **Tea and coffee**

### Faculty dinner

**20:00 - 23:00**
- **Tea and coffee**

### Social event in ZOFIN Palace

**20:00 - 23:00**
- **Tea and coffee**

### Legend

- **Plenary session**
- **Social event**
- **Workshop**
- **Adult sessions**
- **Pediatric sessions**
- **Nurses**
- **Perfusionists**
- **Original/Experimental/Call for cases**
- **Hot topics/What went wrong**
- **Educational corner**
- **Teach programme**
- **Industry sponsored symposia**
PRE - CONGRESS – ADULT

Wednesday 23rd May 2018
South Hall 1 [A+B]
12:00-18:30

12:00-13:25  ECPR „squeeze me“ panel debate
Chairs: Roberto Lorusso (Netherlands), Brian Grunau (Canada), Jan Bělohlávek (Czech Republic), Philipp Lepper (Germany), Dirk Lunz (Germany)
Patients with OHCA suitable for ECPR should be assessed on scene or during hospital admission?
On scene – Dirk Lunz (Germany)
In hospital – Thijs Delnoij (Netherlands)
The South Korean view – Jae Seung Jung (South Korea)
The Taiwan view - YS Chen (Taiwan)
E-CPR in Russia: past and present - Igor Kornilov (Russia)

13:30-15:00  ECMO retrieval „squeeze“ me panel debate
Chairs: Cosimo D’Alessandro (France), Alois Philipp (Germany), Christian Karagiannidis (Germany), Ravi Thiagarajan (USA), Vincent Pellegrino (Australia)
The transport background – what has to be prepared beforehand - Lars Mikael Broman (Sweden)
How to be safe for the crew and for the patient - Björn Frenckner (Sweden)
Procedures to be performed at the place of retrieval - Martin Balík (Czech Republic)
Medical evacuation of patients on ECMO in Russia - Danii Shelukhin (Russia)
What is the evidence that transport is safe and effective? Insight into military and civilian aeromedical evacuation of critically injured on ECLS – Andriy Batchinsky (USA)

15:00-15:30  Coffee break

15:30-16:55  ARDS and VV ECMO „squeeze me“ panel debate
Chairs: Antonio Pesenti (Italy), Christian Karagiannidis (Germany), Chris Harvey (United Kingdom), Nicholas Barrett (United Kingdom), Petr Pavlík (Czech Republic)
How would you ventilate this patient? Case presentation - Martin Balík (Czech Republic)
Open lung approach challenged. Just ventilate – Arthur Slutsky (Canada)
My study showed, that ECMO back-up is rationale - Giles P. Peck (United Kingdom/USA)
I am not sure what is the best in the early phase - Alain Combes (France)

17:00-18:30  Donation after circulatory death with ECPR coexistence – burning questions
Chairs: Steve Brooks (Canada), Chris Harvey (United Kingdom), YS Chen (Taiwan), Steffen Weber-Carstens (Germany), Brian Grunau (Canada)
ECMO for life-saving and organ preservation purposes. A synergic strategy to mitigate current conflicts in between - Iván Ortega-Deballon (Spain)
Marginal donors – suitable for lung transplantation? – Dominik Hocckert (Germany)
Brain death determination on ECMO - Nicholas Barrett (United Kingdom)
Ethical considerations in “unilateral decision-making” - Blair Henry (Canada)
MAIN CONFERENCE - ADULT

Thursday 24th May 2018
Congress Hall
14:00-18:30

14:00-14:30 Opening plenary session
Chairs: Alain Combes (France) – EURO-ELSO President, Roberto Lorussa (Netherlands) – EURO-ELSO Past-president, Michael McMullan (USA) – ELSO President, Jan Bělohlávek (Czech Republic) – Congress Chair
Welcome to EURO-ELSO 2018

14:30-15:30 ECMO: Year in review
Chairs: Alain Combes (France), Roberto Lorussa (Netherlands), Michael McMullan (USA)
VV ECMO - Alain Combes (France)
VA ECMO - Thomas Mueller (Germany)
Experimental ECMO - Roberto Lorussa (Netherlands)
Pediatric vs. adult ECMO – similar or different? - Graeme MacLaren (Singapore)

14:30-15:30 ECMO: Year in review
Chairs: Alain Combes (France), Roberto Lorussa (Netherlands), Michael McMullan (USA)
VV ECMO - Alain Combes (France)
VA ECMO - Thomas Mueller (Germany)
Experimental ECMO - Roberto Lorussa (Netherlands)
Pediatric vs. adult ECMO – similar or different? - Graeme MacLaren (Singapore)

15:30-16:00 Coffee break

16:00-17:00 Life case session – Welcome to Prague!!!
Moderators: Roberto Lorussa (Netherlands), John Fraser (Australia), Christian Karagiannidis (Germany)
Life in box presentation – Combined bronchoscopy/X-ray guided stenting on VV ECMO – Jiri Votruba & Vaclav Votruba & Jan Hridel & Jan Bělohlávek (Czech Republic)
Life in box presentation – ECMO switch to LVAD – Ivan Netuka (Czech Republic)
Life case – PCI on VA ECMO - Jan Bělohlávek & the cathlab team (Czech Republic)

17:00-17:15 ELSO award ceremony
[Micheal Heard, Tracy Morrison and Barb Haney [USA] on behalf of ELSO]

17:15-18:30 Talk show: The ECMO journey
Moderators: Alain Combes (France), Arthur Slutsky (Canada), Kenneth Palmer (Sweden), Giles Peek (USA/United Kingdom)
From the childhood to a young adult... - Robert Bartlett (USA), Antonio Pesenti [Italy], Luciano Gattinoni (Italy)
Quo vadis, ECMO? - Thomas Mueller [Germany], John Fraser [Australia], Michael McMullan [USA]

Friday 25th May 2018
Adult 1 Forum Hall

8:00-8:55 Breakfast with tutor and his PhD student/trainee, tricks in mentoring
Robert Bartlett and Pavel Hala [Michigan, USA]
Tim Jones [Birmingham, United Kingdom] – my tricks in leadership and mentoring

9:00-12:30 Morning Session

9:00-10:00 ECPR – current status
Chairs: Jan Bělohlávek [Czech Republic], Brian Grunau [Canada], Daniele Camboni [Italy]
Prehospital logistics – the major determinant of a successful ECPR programme – Brian Grunau [Canada]
ECPR in Australia: strengths and lessons to be learnt - Vincent Pellegrino [Australia]
ECPR – evidence, knowledge gaps, research priorities – Steve Brooks [Canada]
QoL after ECPR - Tobias Spangenberg [Germany]

10:00-10:30 Coffee break

10:30-11:25 ECMO – long term outcome, economics, cost, reimbursement
Chairs: Thomas Mueller [Germany], Daniel Herr [USA], Vincent Pellegrino [Australia], Shingo Ichiba [Japan], Peter Roesleveld [Netherlands]
Long term outcome after ECMO - Viktor von Bahr [Sweden]
ECMO - increasing the value/cost ratio - Daniel Herr [USA]
Hospital-level variation in inpatient cost – pediatric perspective - Ryan Barbaro [USA]
ECMO reimbursement – worldwide perspective – panel discussion

11:30-12:30 CPR update for ECMologists
Chairs: Jerry Nolan [United Kingdom], Niklas Nielsen [Sweden], Michael Holzer [Austria]
3 years after guidelines conference in Prague 2015 - Anatolij Truhlar [Czech Republic]
Innovations in out-of-hospital cardiac arrest - Steve Brooks [Canada]
The role of local lay rescuers with AEDs and early SMS alerts in OHCA - Rudi Koster [Netherlands]
Adverse effects of mechanical CPR - Rudi Koster [Netherlands]
Termination of resuscitation efforts vs. ECPR? – Andreas Schober [Austria]

12:30-14:30 Moderated poster sessions, posters will be available during the whole conference
Kiosk 1 Thomas Mueller, Martin Balik
Kiosk 2 Christian Karagiannidis, Matthieu Schmidt
Kiosk 3 Peter Schellongowski, Antonella Degani
Kiosk 4 Dirk Donker, Felix Henning
Kiosk 5 Tim Jones, Luis Pinto
Kiosk 6 Lars Mikael Broman, Max Malfertheiner
Kiosk 8 Justyna Swol, Nicholas Barrett
12:45-13:30 Industry sponsored symposium 1

13:45-14:30 Industry sponsored symposium 2

13:00-14:30 Lunch break

14:30-18:30 Afternoon session

14:30-15:55 Post CPR care: Hypothermia and cardiac arrest – where are we now  
**Chairs:** Rudi Koster [Netherlands], Anatolij Truhlar [Czech Republic], Andreas Schober [Austria]  
How it started – Michael Holzer [Austria]  
How doubts emerged and what followed – the TTM trial - Niklas Nielsen [Sweden]  
How difficult it was to draw any recommendation - Jerry Nolan [United Kingdom]  
To remain doubtful is reasonable in science – the TTM2 trial proposal – Niklas Nielsen [Sweden]

16:00-17:00 Please, be smart on ECMOing and think  
**Chairs:** Thomas Mueller [Germany], Jonathan Smith [United Kingdom], Carl Davis [United Kingdom]  
“ECMO Stewardship” - Michael McMullan [USA]  
Who is able to say „YES‟, has to be able to say „NO” – Philipp Lepper [Germany]  
Ethics in ECPR - Blair Henry [Canada]

17:00-17:30 Coffee break

17:30-18:30 Ethical issues on ECMO  
**Chairs:** Antonio Pesenti [Italy], Peter Schellongowski [Austria], Blair Henry [Canada]  
Case presentation: Matthieu Schmidt [France]  
End of life decision in awake ECMO - Steffen Weber-Carstens [Germany]  
Ethical issue on VV-ECMO - Darryl Abrams [USA]  
The pediatric view on therapy limitation - Peter Roeleveld [Netherlands]

Friday 25th May 2018

**Adult 2 South Hall 1 (A+B)**

8:00-8:55 Early bird session  
**ECCO2R in respiratory failure**  
**Moderator:** Mirko Belliato [Italy]  
Case report (5min) presented by the moderator  
Technical considerations - Christian Karagiannidis [Germany]  
ECCO2R in ARDS - Alain Combes [France]  
ECCO2R in COPD - Nicholas Barrett [United Kingdom]

9:00-12:30 Morning Session

9:00-10:00 Transition from ECMO to other technologies – surgical perspectives  
**Chairs:** Nicholas Cavarocchi [USA], Gareth Davis [United Kingdom], Justyna Swol [Germany]  
...happy to be there, after all these years… (Jiri Maly, Czech Republic)  
America, the land of opportunities (Matthew Bacchetta, USA)  
...in Paris, we do everything… Cosimo D’Alessandro [France]

10:00-10:30 Coffee break

10:30-11:25 Technical issues – you need to know, what you put your patients on!  
**Chairs:** Robert Bartlett [USA], Igor Kornilov [Russia], Filip De Somer [Belgium]  
Oxygenerators – Filip De Somer [Belgium]  
Pumps – Mirko Belliato [Italy]  
Available cannulas – Lars Mikael Broman [Sweden]  
Technical prerequisites for safe transport on ECMO - Alois Philipp [Germany]  
Panel discussion

11:30-12:30 LV unloading in VA ECMO  
**Chairs:** Michael Broomé [Sweden], Chris Harvey [United Kingdom], Dirk Donker [Netherlands], Roberto Lorussa [Netherlands]  
Intensivist perspective - Vincent Pellegrino [Australia]  
Cardiologist perspective - Paolo Meani [Italy]  
Surgical perspective - Nicholas Cavarocchi [USA]  
Simulator perspective - Michael Broomé [Sweden] and Dirk Donker [Netherlands]

12:30-14:30 Moderated poster sessions, posters will be available during the whole conference

12:45 - 13:30 Industry sponsored symposium 1

13:45 - 14:30 Industry sponsored symposium 2

13:00-14:30 Lunch break

14:30-18:30 Afternoon session

14:30-15:25 Acute renal failure on ECLS  
**Chairs:** Christian Karagiannidis [Germany], Antonio Pesenti [Italy], Maximilian Möltertheiner [Germany]  
ECMO and acute renal failure: impact on outcome? - Thomas Mueller [Germany]  
Low-Flow ECCO2R + RRT Jonas Lindholm [Sweden]  
Combined effects of ECMO and RRT on pharmacokinetics - Kiran Shekar [Australia]

15:30-17:00 EOLIA and beyond  
**Chairs:** Daniël Brodie [USA], Alain Combes [France], Luciano Gattinoni [Italy]  
The EOLIA trial - Alain Combes [France]  
What is next after EOLIA? - Luciano Gattinoni [Italy]  
Panel discussion
17:00 – 17:30 Coffee break

17:30-18:30 Lung transplantation from ECMO
Chairs: Daniel Brodie (USA), Dominik Hoechter (Germany), Gyorgy Lang (Austria)
- Pro: Matthew Bacchetta (USA)
- Maybe: Antonio Arcadipane (Italy)
- Con: Dominik Hoechter (Germany)

Friday 25th May 2018
Adult 3 South Hall 2A

9:00-12:30 Morning Session

9:00-10:00 Update on extracorporeal CO2 elimination
Chairs: Antonio Pesenti (Italy), Thomas Mueller (Germany), Dinis Miranda (Netherlands)
Reduction of invasiveness of mechanical ventilation in ARDS – Thomas Mueller (Germany)
Avoidance of intubation in severe COPD - Nicholas Barrett (United Kingdom)
Control of respiratory drive by ECDR in severe lung failure - Christian Karagiannidis (Germany)

10:00-10:30 Coffee break

10:30-11:25 Neurological issues on ECMO
Chairs: Konstanty Szuldrzynski (Poland), Matthieu Schmidt (France), James Fortenberry (USA)
Neurological complications - Roberto Lorusso (Netherlands)
Neuromonitoring on ECMO – Aparna Hoskote (United Kingdom)
Brain stem testing on ECMO - Nicholas Barrett (United Kingdom)
Impact of hypercapnia and hypoxemia on neurological long-term outcome – James Fortenberry (USA)

11:30-12:30 Tricky situations on ECMO
Chairs: Graeme MacLaren (Singapore), Tobias Spangenberg (Germany), Thijis Delnoij (Netherlands)
Whom I should not put on ECMO? - Alain Vuylsteke (United Kingdom)
Isolated acute right heart failure – Federico Pappalardo (Italy)
Septic cardiomyopathy - Nicolas Brechot (France)

12:30-14:30 Moderated poster sessions, posters will be available during the whole conference

12:45 – 13:30 Industry sponsored symposium 1

13:45 – 14:30 Industry sponsored symposium 2

13:00-14:30 Lunch break

14:30-18:30 Afternoon session

14:30-15:55 ECMO in sepsis
Chairs: Björn Frencnker (Sweden), Graeme MacLaren (Singapore), Justyna Swol (Germany)
Source of infection in patients on ECMO – Alain Combes (France)
Microbiological surveillance in ECMO - Gerry Capatos (South Africa)
Considerations to start ECMO in sepsis - Kenneth Palmer (Sweden)
Antibiotic strategies in septic ECMO patient - Lars Mikael Broman (Sweden)
Sepsis and ECMO in children - Graeme MacLaren (Singapore)

16:00-17:00 Management of critical pulmonary hypertension
Chairs: Hynek Říha (Czech Republic), Matthew Bacchetta (USA), Jaroslav Lindner (Czech Republic)
How to avoid critical PH? - Pavel Jansa (Czech Republic)
Critical PH during cardiac surgery – Anesthesiologist’s perspective - Kamen Valchanov (United Kingdom)
Critical PH during cardiac surgery – Surgeon’s perspective - Tom Verbelin (Belgium)
Is ECMO the optimal device for critical PH? - Matthew Bacchetta (USA)

17:00 – 17:30 Coffee break

17:30-18:30 ECLS in trauma, indications and controversies
Chairs: Justyna Swol (Germany), Ravi Thiagarajan (USA), Danil Shelukhin (Russia)
Traumatic brain injury, still an absolute contraindication for ECLS? - Gareth Davis (United Kingdom)
VV-ECMO in trauma patients, who benefits? - Nicholas Cavarocchi (USA)
VA-ECMO in bleeding, a contradiction in terms? - Roberto Lorusso (Netherlands)
Trauma addendum of ELSO registry - Justyna Swol (Germany)

Friday 25th May 2018
National Technical Museum Prague - Kostelni 42, Prague 7

20:00-23:00 Festive Get-Together event in National Technical Museum

Exhibition Man-Made Man: Technology and Medicine

21:00-22:00 We built on history
Chairs/moderators: Alain Combes (France), Jan Bělohlávek (Czech Republic)
Arthur Slutsky (Canada): History of mechanical ventilation: From Vesalius to VILI
Robert Bartlett (USA): History of ECMO
Roberto Lorusso (Netherlands): The European contribution to mechanical circulatory support and to ELSO

Andrea Aguzzi Award Ceremony
Saturday 26th May 2018

Main Conference - Adult

8:00-8:55 Early bird session
Call for cases 1

Chairs: Matthias Lubnow (Germany), Petr Němec (Czech Republic), Paolo Meani (Netherlands)

VV ECMO and acute respiratory distress syndrome (Abstract ID: 265) Mathias Wirth (Germany)

Successful outcome from prolonged VV ECMO in a patient with multi-organ failure (Abstract ID: 114) Martin Voracek (Czech Republic)

Salvage treatment of constipated after off-pump coronary artery bypass using extracorporeal membrane oxygenator (Abstract ID: 257) Soon-Chang Hong (Republic of Korea)

Can we afford to say no; an ethical dilemma arising with the use of ECMO in a low volume centre? (Abstract ID: 119) Svatak Mick (Australia)

Does mechanical circulatory support prior to heart transplant affect the incidence of primary graft dysfunction and postoperative extracorporeal life support? (Abstract ID: 180) Katarina Lenartova (United Kingdom)

9:00-9:55 Cardiogenic shock

Chairs: Cosimo D’Alessandro (France), Alois Philipp (Germany), Jorn Tangaards ( Netherlands)

Cardiogenic shock definition and management - Christian Spaulding (France)

VA ECMO in cardiogenic shock – from retrieval to discharge - Darryl Abrams (USA)

Hemodynamics in cardiogenic shock treated by VA ECMO – experimental background - Petr Distadl (Czech Republic)

10:00-11:00 Update on mechanical ventilation on ECMO

Chairs: Luciano Gattinoni (Italy), Jan Rulíšek (Czech Republic), Giles Peek (United Kingdom/USA)

Pt, driving pressure and beyond - Arthur Slutsky (Canada)

Spontaneous breathing on ECMO - Antonio Pesenti (Italy)

Vt, driving pressure and beyond - Artur Slotsky (Canada)

Keep the lung at rest in ARDS? Giles Peek (United Kingdom/USA)

11:00-11:30 Coffee break

11:30-12:25 Do we need randomized clinical trials in extracorporeal respiratory support?

Chairs: Antonio Pesenti (Italy), Daniel Brodie (USA), Christan Karagiannidis (Germany)

YES: Alain Combés (France), Antonio Pesenti (Italy), Daniel Brodie USA

NO: Luciano Gattinoni (Italy)

12:30-13:30 Where are the borders?

Chairs: Lionel Lamhaut (France), Daniele Camboni (Germany), Felix Henning (Germany)

Tolerating hypoxemia during ECMO for ARDS? - Daniel Brodie (USA)

Tolerating hypotension during ECMO for cardiogenic shock? - Matthieu Schmidt (France)

Any time limit for low-flow before ECMPR? - Vincent Pellegrino (Australia)

Panel discussion

13:30-14:00 Closing remarks – Best abstract ceremony Forum Hall

Saturday 26th May 2018

Hot topics/Original/What went wrong session South Hall 1 (A+B)

8:00-8:55 Early bird session

Brain perfusion in cardiac arrest

Chairs: Jan Bělohlávek (Czech Republic), Roberto Lorussa (Netherlands), Hanneke Jsselstijn (Netherlands), Aparna Hoskote (United Kingdom)

Monitoring of brain function during ongoing CPR Jan Bělohlávek (Czech Republic)

Effect of different therapeutical interventions on brain oxygenation and flow (hypothermia, ventilation…). Miroslav Solav (Czech Republic)

Brain function and hemodynamics relationships Jan Přeček (Czech Republic)

9:00-9:55 New tools to monitor ECMO patients

Chairs: John Fraser (Australia), Simon Finney (United Kingdom), Glenn Whitman (USA)

Update on thoracic ultrasound for lung failure - Guido Tavazzi (Italy)

Electrical impedance tomography - Matthieu Schmidt (France)

Monitoring of microcirculation - Dinis Miranda (Belgium)

New ways to monitor coagulation on ECMO – including Von Willebrand Factor deficiency - Dominik Hoechterm (Germany)

10:00-11:00 Procedural logistics during ECPR – interactive case based session

Chairs: Christian Spaulding (France), Dinis Miranda (Belgium), Thijs Delnoij (Netherlands), Brian Grunau (Canada)

Out of hospital ECMO implantation - Lionel Lamhaut (France)

In hospital ECMO implantation in OHCA – Jan Bělohlávek (Czech Republic)

In hospital ECMO implantation in IHCA – Daniele Camboni (Germany)

11:00-11:30 Coffee break

11:30-12:25 Original oral abstracts 1

Chairs: Andrea Schober (Austria), Tobias Sponenberg (Germany), Dinis Miranda (Netherlands)

Central venous administration of mesenchymal stem cells improves oxygenation, decreases injury severity and delays ARDS. Andriy Batchinsky (USA)

Predictors of extracorporeal membrane oxygenation support during lung transplantation and development of a Nomogram (Abstract ID 49) Rong Zhang (China)

Emergency coronary angiography (CAG) and percutaneous coronary intervention (PCI) in patients with refractory out of hospital cardiac arrest (OHCA) (Abstract ID 191) Daniel Rob (Czech Republic)

Effect of Intraaortic Balloon Pumping in Cardiogenic Shock Patients Supported by Venoarterial Extracorporeal Membrane Oxygenation: A Systematic Review and Meta-analysis (Abstract ID 84) Yongnan Li (China)

31 F Avalon cannulas are associated with more intracranial hemorrhage than 27 F cannulas (Abstract ID 97) Roberto Lorussa (Netherlands)
12:30-13:30 What went wrong
Chairs: John Toomasian [USA], Vilém Rohn [Czech Republic], Luis Pinto [Portugal]
Regional oxygen desaturation of the lower body in peripheral veno-arterial extracorporeal membrane oxygenation (VA ECMO) [Abstract ID 85] Sandra van den Berg [Netherlands]
Inadvertent inverse perfusion in E-CPR [Abstract ID 188] Christoph Fisser [Germany]
Accidental femoral decannulation requiring emergent bilateral groin exploration in a morbidly obese patient with veno-arterial extracorporeal membrane oxygenation [Abstract ID 196] Madonna Lee [USA]
ECMO Transport Swiss Cheese [Abstract ID 71] Julia Vujcikova [United Kingdom]
From ECMO to...? LVAD vs BVAD: What the right ventricle allows [Abstract ID 225] Elena Sandoval [Spain]

13:30 - 14:00 Closing remarks – best abstract ceremony Forum Hall

Saturday 26th May 2018
Miscellaneous South Hall 2B

8:00-8:55 Early bird session
Call for cases 2
Chairs: Joern Tongers [Germany], Justyna Swol [Germany], Mikuláš Mlček [Czech Republic]
Combined use of IABP and veno-arterial-ECMO as a bridge to left ventricular assist device in acute left main occlusion [Abstract ID: 271] Floris van den Brink [Netherlands]
Periportal emergency cases - ECMO in the labor room [Abstract ID: 284] Sara Fill Malfetheriner [Germany]
Rescue veno-venous ECMO with cannulation of the left subclavian vein [Abstract ID: 78] Jacinta Maas [Netherlands]
Veno-Venous ECMO in perioperative management of liver transplant for fulminant hepatic failure secondary to iron overdose. [Abstract ID: 94] Vadim Gudzenko [USA]
Digital footprint on a mobilephone and extracorporeal membrane oxygenation saved a young patients life after ingestion of yew [Taxus baccata] [Abstract ID: 98] Helle Vagner [Denmark]

9:00-13:30 Morning session

9:00-9:55 Availability of ECMO in Europe. Rationale for international networking? A snapshot
Chairs: Christian Karagiannidis [Germany], Vladimir Lonsky [Czech Republic], Nicholas Barrett [United Kingdom] and panelists
5 min rapid fire presentations + panel discussion at the end
Bulgaria...Bistra Pesheva
Czech Republic...Jan Rulišek
Germany...Christian Karagiannidis
Poland...Konstanty Szuldrzynski
Romania...TBD
South America...Rodrigo Diaz
Russia...Danil Shelukhin
United Kingdom...Nicholas Barrett
Any more country?...anybody from the audience?
Panel discussion

10:00-11:00 ECMO centers organization and education
Chairs: Ryan Barbaro [USA], Mark Davidson [United Kingdom], Björn Frenckner [Sweden]
Regionalization of ECMO centers – Darryl Abrams [USA]
Should every ARDS center have a VA-ECMO programme? - Nicolas Brechot [France]
Establishing International ELSO Educational Goals and Curriculum. On behalf of ELSO Education Task Force - Rodrigo Diaz [Chile] and Bishoy Zakhary [USA]

11:00-11:30 Coffee break

11:30-12:25 Cannulation challenges – simulation guidance as a clue to deep understanding
Chairs: Mark Ogrin [USA], Justyna Swol [Germany], Rodrigo Diaz [Chile]
Optimizing left ventricular unloading during VA ECMO - Dirk Donker (Netherlands)
Cerebral desaturation during VA ECMO - how to recannulate? - Michael Broomé (Sweden)
Cardiovascular simulation as clinical decision support in complex hemodynamic states – Marc Dickstein [USA]

12:30-13:30 Emergencies for ECMO in special populations
Chair: Bishoy Zakhary [USA], Ondřej Šmíd [Czech Republic], Tom Verbelen (Belgium)
- ...blocked airway - Martin Balik [Czech Republic]
- ...hematological patients - Peter Schellongowski [Austria]
- ...severe obese patients - Ibrahim M. Fawzy [Qatar]

13:30-14:00 Closing remarks – best abstract ceremony Forum Hall

Saturday 26th May 2018
Original contributions – adults North Hall

8:00-8:55 Early bird session
Call for cases 3
Chairs: Pavel Holá [Czech Republic], Dirk Donker (Netherlands), Michael McMullan [USA]
Two cases of successful PCI for LM STEMI under ECMO support [Abstract ID: 33] Suk Min Seo [Republic of Korea]
ECMO assisted transapical catheter ablation of left ventricular tachycardia in a patient with mechanical aortic and mitral valve prosthesis [Abstract ID: 81] Sasa Borovic [Serbia]
An experience of cardiopulmonary resuscitation for left ventricular assist device implanted out of hospital cardiac arrest patient [Abstract ID: 103] Yoshiaki Iwashita [Japan]
ECMO program in regional hospital without cardiosurgery [Abstract ID: 104] Jiri Karasek [Czech Republic]
9:00-13:30 Morning session

09:00-9:55 Original oral abstracts 2
Chairs: Daniel Herr (USA), Federico Pappalardo (Italy), Jonas Lindholm (Sweden)
Does weight matter? - outcomes in adult patients on VV ECMO when stratified by obesity class
(Abstract ID 113) Samuel Galvagno (USA)
Vascular complications of extracorporeal membrane oxygenation: a systematic review and
meta-regression analysis (Abstract ID 92) Jia Deng (Singapore)
Neurologic injury in adult patients undergoing veno-venous ECMO for respiratory insufficiency
with double-lumen or single-lumen cannulation: a propensity-score analysis from the ELSO
Registry Database (Abstract ID 238) Roberto Lorusso (Netherlands)
Vascular complications of extracorporeal membrane oxygenation: a systematic review and
meta-regression analysis (Abstract ID 92) Jia Deng (Singapore)
Predictors of right ventricular recovery in patients supported with VA-ECMO for acute massive
pulmonary embolism. (Abstract ID 297) Chetan Pasrija (USA)

10:00-11:00 Original oral abstracts 3
Chairs: Glenn Whitman (USA), Mirko Belliato (Italy), Ibrahim M. Fawzy (Qatar)
Extracorporeal life support for refractory in-hospital and out-of-hospital cardiac arrest: Are the
outcomes really different? A 10-year experience (Abstract ID 39) Matteo Pozzi (France)
Single centre experience with extracorporeal cardiopulmonary resuscitation in Denmark
(Abstract ID 168) Margrethe Jermiin Jensen (Denmark)
The socio-economic characteristics of the arrest patients with VA ECMO for 8 years: A National
Health Insurance database study (Abstract ID 181) Su Jin Kim (Republic of Korea)
Normothermic ECMO for organ donation after cardiac death: regional experience in Emilia
Romagna (Italy) (Abstract ID 215) Marta Vela Antontini (Italy)
Percutaneous atrial septostomy approach for left heart unloading on veno-arterial
extracorporeal membrane oxygenator support (Abstract ID 244) Ali Ihsan Hasde (Turkey)

11:00-11:30 coffee break

11:30-12:25 Original oral abstracts 4
Chairs: Konstanty Szuldrzynski (Poland), Nicolas Brechot (France), Steve Brooks (Canada)
Feasibility and success rate of percutaneous coronary intervention (PCI) in patients with
refractory out of hospital cardiac arrest (OHCA) who underwent extracorporeal cardiopulmonary
resuscitation (ECDR) (Abstract ID 260) Jan Bělohlávek (Czech Republic)
The use of extracorporeal life support in patients with HIV (Abstract ID 289) Thomas Brogan USA)
Veno-arterio-venous ECMO for septic cardiomyopathy: a single-centre experience. (Abstract ID
153) Dominik Vogel (United Kingdom)
Reliability of thermodilution cardiac output (CO) measurement in femoro-femoral veno-venous
ECMO (VV-ECMO) (Abstract ID 157) Elisa Cipriani (Italy)
Determinants of oxygenator failure in extracorporeal membrane oxygenation (Abstract ID 222)
Adam Czapran (United Kingdom)

12:30-13:30 Original oral abstracts 5
Chairs: Daniil Shelukhin (Russia), Steven Conrad (USA), Jan Kunstyr (Czech Republic)
Extracorporeal membrane oxygenation in pregnancy and postpartum women: a systematic
review of case reports (Abstract ID 154) Jamie Ing (Singapore)
Extra-corporeal membrane oxygenation in the therapy of cardiogenic shock (ECMO-CS): rationale
and design of the multicenter randomized trial (Abstract ID 259) Petr Ostadal (Czech Republic)
Risk of hemolysis in adults patients on modern ECMO: A retrospective analysis of 1214 patients
and 10558 ECMO days (Abstract ID 41) Hannah Appelt (Germany)
Neurological complications in adult postcardiotomy cardiogenic shock patients undergoing
venoarterial extracorporeal membrane oxygenation: A cohort study (Abstract ID 55) Denghang
Hou (China)
In-hospital outcome after emergent or prophylactic extracorporeal life support during
transcather aortic valve implantation: a systematic review of the literature (Abstract ID 64)
Giuseppe Raffa (Italy)

13:30- 14:00 Closing remarks – best abstract ceremony Forum Hall
NEONATOLOGY – PEDIATRIC
“MEET THE EXPERTS”
PRE - CONGRESS SESSIONS

This is an exciting opportunity to discuss controversial and challenging situations and scenarios in a pediatric ECMO programme. There will be experts and speakers who will provide an opportunity for a stimulating discussion and to develop a group consensus. The objective is to have the speakers give short talks, and then with support of the moderator engage the audience in an interactive session. The expert will summarise the discussion for the audience at the end with clear directions on the way forward.

Wednesday 23rd May 2018
South Hall 2A
13:00-18:30

13:00-13:55 Sedation [how to minimize sedation and accelerate recovery?]
   Expert: Dick Tibboel (Netherlands). Moderator: Mark Davidson (United Kingdom)
   The Swedish approach: awake ECMO - Lars Mikael Bromman (Sweden)
   Sedation on ECMO – the Czech approach - Pavla Pokorna (Czech Republic)
   Bio-availability of sedative drugs on ECMO - Enno Wildschut (Netherlands)

14:00-15:00 Management of the native lung on VV-ECMO [how to look after the lung and enhance recovery?]
   Expert: Robert Bartlett (USA). Moderator: Troy Dominguez (United Kingdom)
   Management of the native Lung...Deep sedation vs awake - Matteo Di Nardo (Italy) and Kenneth Palmer (Sweden)
   Adjuvant therapies [steroids, bronchoscopy, liquid ventilation, physiotherapy] - Aparna Hoskote (United Kingdom)

15:00-15:30 Coffee break

15:30-16:25 Neurormonitoring on ECMO [how do we get this right?]
   Expert: Melania Bembea (USA). Moderator: Matteo Di Nardo (Italy)
   How do we provide continuous measurements all the time? - Maryam Naim (USA)
   Cerebral autoregulation? How do we measure it? - Lakshmi Raman (USA)
   Is there a role for Transcranial Doppler - Piero David (Italy)
   Should we Doppler reconstructed vessels? If so, when? And what do we do if it is partially or fully occluded? - Tim Jones (United Kingdom)

16:30-17:25 Transport on ECMO [how do we overcome challenges?]
   Expert: Lars Mikael Bromman (Sweden). Moderator: Gail Annich (Canada)
   Challenges in fixed-wing air transport - Kenneth Palmer (Sweden)
   Challenges in helicopter air transport - Mark Davidson (United Kingdom)
   Challenges in road transport - Jerome Rambaud (France)

Thursday 24th May 2018
South Hall 2A
08:00-12:30

08:00-08:55 Neonatal anticoagulation [how do we get this right?]
   Expert: Chiara Giorni (Italy). Moderator: Heidi Dalton (USA)
   Developmental Haemostasis – Gail Annich (Canada)
   AntiXa versus aPTT in neonates - Laurance Lequier (Canada)
   My choice of anticoagulation: Bivalirudin - Marco Ranucci (Italy)

9:00-10:00 ECPR [Can we push the boundaries?]
   Expert: Thomas Brigant (USA). Moderator: Troy Dominguez (United Kingdom)
   ECPR should be offered in the ED? In the field? Anne-Marie Guergerian (Canada)
   How much time can be allowed until and for cannulation? - Peter Roeleveld (Netherlands)
   How can we optimise outcome after E-CPR? - Ravi Thigiarajan (USA)

10:30-11:25 Long-term follow-up after ECMO [Outcome is important, can we achieve consensus on how to do it?]
   Expert: Graeme MacLaren (Singapore). Moderator: Aparna Hoskote (United Kingdom)
   Can we define the clinically relevant long-term outcomes after ECMO in children? - Viktor von Bahr (Sweden)
   What strategies can we use to improve the long-term neurological outcome of ECMO survivors? - Melanie Bembea (USA)
   Multidisciplinary long-term follow-up – is this realistically possible? - Dick Tibboel (Netherlands)

11:30-12:30 CRRT, Plasma exchange and ECMO [optimal renal perfusion - what works best?]
   Expert: Mark Davidson (United Kingdom). Moderator: Viktor von Bahr (Sweden)
   Managing fluid overload and treating renal failure in sepsis - CRRT, ECMO - Claire Westrope (United Kingdom)
   When do we use plasma exchange on ECMO? - Gabriella Bottari (Italy)
   How do we best define acute kidney injury and should we do surveillance for chronic kidney disease in children supported on ECMO - Enno Wildschut (Netherlands)
**MAIN CONFERENCE – PEDIATRIC**

**Friday 25th May 2018**

**South Hall 2B**

**8:00 – 8:55 Call for cases – pediatric**

**Chairs:** Anne-Marie Guerguerian (Canada), Ryan Barbaro (USA), Chris Harvey (United Kingdom)

Extracorporeal cardiopulmonary resuscitation (ECPR) after near drowning in children: worst case scenario or best case scenario? (Abstract ID: 57) Sandra van den Berg (Netherlands)

Long-term mechanical cardiac support as a bridge to candidacy for heart transplantation in failing borderline left ventricle [Abstract ID: 80] Karel Koubsky (Czech Republic)

Venovenous extracorporeal membrane oxygenation during surgical repair of a tracheoesophageal fistula in a 2-year-old [Abstract ID: 40] Jon Lillie (United Kingdom)

The successful use of VA, VAV and VV ECMO for lung rest in hypercarbic respiratory failure secondary to broncho-pleural fistulae [Abstract ID: 262] Rajan Saini (United Kingdom)

Extracorporeal membrane oxygenation as a bridge to combined lung and liver transplantation: a case report [Abstract ID: 144] Vadim Gudzenko (USA)

**09:00-10:00 State of the art**

**Chairs:** Melania Bembea (USA), Aparna Hoskote (United Kingdom), Vaclav Vobruba (Czech Republic)

Pediatric Respiratory ECMO: ARDS – changing definitions, new applications, mobile ECMO (what is new) – Matteo Di Nardo (Italy)

Advances in ECMO: the next 10 years – what to expect? smaller circuits/artificial blood/new anticoagulants – distant reality? – Gail Annich (Canada)

ECPR utilisation is increasing: how do we sustain a ECPR programme? – Anne-Marie Guerguerian (Canada)

**10:00-10:30 Coffee break**

**10:30-11:15 ECMO in congenital diaphragmatic hernia: The 7 tenors round table**

**Orchestra director:** Matteo Di Nardo (Italy). **Moderators:** Carl Davis (United Kingdom), Dick Tibboel (Netherlands)

Francesco Morini, Antonio Amodeo & Francesca Stoppa: Italy

Björn Frenckner & Kenneth Palmer: Sweden

Gregor Walker & Mark Davidson: United Kingdom

Rene Wijnen & Enno Wildschut: Netherlands

Lucas Wessel & Thomas Schaible: Germany

Jan Janota & Zbynek Stranak: Czech Republic

Yigit Guner & Mark Ogino: USA

**11:15-11:30 Neonatal ECMO: CDH and ECMO CDH Euro-Consortium and UK NeuroSCAMP – an initiative to get consensus on follow-up in Europe – where are we now?**

Hanneke Jsselstijn (Netherlands)

**11:30-12:00 Pediatric coagulation round table**

**Round Table:** Ann Korinova (United Kingdom), Antonio Amodeo (Italy), Heidi Dalton (USA), Vaclav Vobruba (Czech Republic)

Simple versus intensive anticoagulation monitoring strategy in pediatric ECLS patients - Lauraance Lequier (Canada)

Acquired von Willebrand Syndrome and ECMO – Gail Annich (Canada)

How I manage anticoagulation for pediatric VAD – Chiara Giboni (Italy)

How I study coagulation and platelet function at bedside – Marco Ranucci (Italy)

**12:00-12:15 Lunch break**

**12:15-13:00 Industry sponsored symposium 1**

**13:00-13:45 Industry sponsored symposium 2**

**13:00-14:30 Lunch break**

**14:30-15:55 Oral abstract presentations 1**

**Chairs:** Maryam Naim (USA), Andrea Moscatelli (Italy), Laurance Lequier (Canada)

Acute neurological events in children supported with extracorporeal membrane oxygenation (ECMO) for respiratory failure (Abstract ID: 256) Yael Feinstein (United Kingdom)

Extracorporeal membrane oxygenation for adenosinopenia pneumonia in adults and children: survival and predictors of mortality (Abstract ID: 75) Kollengode Ramanathan (Singapore)

Inotropic support in neonates requiring venovenous and venoarterial ECMO for respiratory failure (Abstract ID: 51) Michael Heard (USA)

Nitric oxide during ECLS is associated with lower mortality after paediatric in-hospital cardiac arrest: a retrospective study. (Abstract ID: 283) Oliviero Fochi (Italy)

Development and validation of the pediatric extracorporeal membrane oxygenation prediction (PEP) tool for risk adjusting mortality. (Abstract ID: 115) David K. Bailly (USA)

The use of simulation to implement new ideas in the development of ECPR practices in PICU (Abstract ID: 130) Stacy O’Brien (United Kingdom)

Venovenous extracorporeal membrane oxygenation in shunted single ventricle physiology - our experience (Abstract ID: 193) Julia Vujcikova (United Kingdom)
16:00–17:00 Oral abstract presentations 2

**Chairs:** Lakshmi Raman (USA), Tejas Mehta (Qatar), Claire Westrope (UK)

*Tranexamic acid prolongs the half-life of pediatric veno-arterial ECLS circuits (Abstract ID: 173)*

Vanya Icheva (Germany)

Use of a modified neonatal-pediatric extracorporeal membrane oxygenation transport team model: a single center experience (Abstract ID: 175) Dan Dinhberger (USA)

*Review of cardiac catheterisation practice in paediatric patients supported by Extracorporeal Membrane Oxygenation: Institution experience in Royal Brompton Hospital over 5 years (2013–2017) (Abstract ID: 227)* Sandra Gala Peralta (United Kingdom)

An overview of ECPR in children of Asia Pacific from 1999 to 2016 (Abstract ID: 228) Jie Yu (China)

The application of extracorporeal membrane oxygenation in children in China (Abstract ID: 44) Wei Wang (China)

Do pediatric cardiac patients need of diagnostic procedures during ECMO? (Abstract ID: 51) Ilya Soynov (Russian Federation)

17:00 – 17:30 Coffee break

17:30 – 18:30 Oral abstract presentations 3

**Chairs:** Malaika Mendonca (Switzerland), Anne-Marie Guerguerian (Canada), Joanne Starr (USA)

*Effect of pump type on outcomes in neonates with congenital diaphragmatic hernia requiring ECMO (Abstract ID: 60)* Yigit Guner (USA)

*Single centre experience of UK paediatric and neonatal mobile ECMO provision (Abstract ID: 70)* Claire Westrope (United Kingdom)

Extracorporeal cardiopulmonary resuscitation [E-CPR] in children - Factors influencing survival following an in-hospital cardiac arrest (Abstract ID: 161) Reut Lerner (United Kingdom)

Complications during intra-hospital transport of pediatric patients on ECMO: experience in a tertiary hospital (Abstract ID: 63) Maria Carmen Dominguez Dales (Spain)

Development and Implementation of an Extracorporeal Membrane Oxygenation Risk Assessment Tool for Delivery of Improved Care within a Paediatric Intensive Care Clinical Environment (Abstract ID: 83) Amelia Griffiths (Australia)

*Does extracorporeal membrane oxygenation availability improve the survival in neonates with congenital diaphragmatic hernia? (Abstract ID: 86)* Emel Okulu (Turkey)

**Saturday 26th May 2018**

South Hall 2A

**09:00-09:55 Cardiac ECMO**

**Chairs:** Troy Dominguez (United Kingdom), Anne-Marie Guerguerian (Canada), Martina Sperkova (Czech Republic)

*Identifying factors to improve ICU morbidity and survival after post cardiotomy ECMO – Aparna Hoskote (United Kingdom)*

*ECMO in the failing single ventricle physiology – Peter Roelveld (Netherlands)*

Mechanical support for primary graft failure after heart transplant – Jonathan Smith (United Kingdom)

**10:00-11:00 ECMO to VAD: Bridging to transplantation**

**Chairs:** Gail Annich (Canada), Ravi Thiagarajan (USA), Roman Gebauer (Czech Republic)

*ECMO as cardiac support – out of fashion? – Ann Karimova (United Kingdom)*

*Right heart failure on LVAD – the role of ECMO? – Troy Dominguez (United Kingdom)*

*Neonatal and pediatric VAD including total artificial heart: state of the art – Antonio Amodeo (Italy)*

**11:00-11:30 Coffee break**

**11:30-12:25 ECMO for airway surgery and lung transplantation**

**Chairs:** Matteo Di Nardo (Italy), Jonathan Smith (United Kingdom), Vaclav Vobruba (Czech Republic)

*Extracorporeal support in airway surgery – Gyorgy Lang (Austria)*

*Awake VV-support in pediatric respiratory failure: Why it is the best approach not only for lung transplant – James Fortenberry (USA)*

*The role of pediatric paracorporeal lung assist devices when ECMO cannot be sustained – Roosevelt Bryant III (USA)*

**12:30-13:30 Outcome research in ECMO**

**Chairs:** Ryan Barbaro (USA), Mark Davidson (United Kingdom), Pavla Pokorna (Czech Republic)

*Impact of post cardiac surgery ECMO on children and families – results from a prospective multicenter study in the UK - Katherine Brown (United Kingdom)*

*Memory deficit in ECMO survivors. An RCT to study an intervention to improve working memory - Hanneke IJsselstijn (Netherlands)*

*PedsNET Research on ECMO – a proposal for collaborative research – Malaika Mendonca (Switzerland)*

**13:30-14:00 Closing session of Euro ELSO**
NURSING BLOCK – PRE-CONGRESS

Thursday 24th May 2018
North Hall
Translation from English to Czech and vice versa provided
8:30-12:30

08:30-10:00 Basics of ECMO for nurses
   Chairs: Margaret Farley (United Kingdom), Ilona Lalova (Czech Republic), Dirk Donker (Netherlands)
   Principles of ECMO - Leen Vercaemst (Belgium)
   Indications for VV-ECMO - Martin Balík (Czech Republic)
   Indications for VA-ECMO - Dirk Donker (Netherlands)
   Bedside management - Chirine Mossadegh (France)

10:00-10:30 Coffee break

10:30-11:25 Challenging cases – oral nursing abstracts
   Chairs: Chirine Mossadegh (France), Jo-Anne Fowles (United Kingdom), Kath Daly (United Kingdom)
   The only chance for survival in a young lady with refractory cardiac arrest: ECPR – Marketa Hubatova (Czech Republic)
   Non-pharmacological nursing intervention to reduce lower limb hypoperfusion in VA-ECMO (abstract ID 39) - Riccardo Cusma Piccione (Italy)
   The importance of providing written information to parents of critically ill children requiring Extra Corporeal Life Support (abstract ID 74) - Melanie Dineen (UK)
   Nursing care to avoid complications derived from ECMO therapy (abstract ID 163) Javier Perez Dueñas (Spain)
   Andrea Aguzzi award lecture

11:30-12:30 Complex ECMO for nurses
   Chairs: Marta Velia Antonini (Italy), Ann Alexandersson (Sweden), John Toomasian (USA)
   ECMO Modes: VV-VVA-VVAV – Stephan Strassmann (Germany)
   CRRT and Plasmapheresis on ECMO – Jo-Anne Fowles (UK)
   How to manage an ECPR programme, the nursing view from Prague - Ilona Lalova (Czech Republic)

NURSING BLOCK – MAIN CONGRESS

Friday 25th May 2018
North Hall
Translation from English to Czech and vice versa provided
9:00-12:30

9:00-10:00 Staff Training and ECMO Simulation
   Chairs: Margaret Farley (UK), Dirk Donker (Netherlands), Ilona Lalova (Czech Republic)
   Set up of a dedicated training program - Chirine Mossadegh (France)
   Continuous education through simulation - Leen Vercaemst (Belgium)
   Update on the ELSO Education Curriculum – Bishoy Zakhary (USA)

10:00-10:30 Coffee break

10:30-11:25 Quality of life after ECMO
   Chairs: Marketa Hubatova (Czech Republic), Jo-Anne Fowles (United Kingdom), Ann Alexandersson (Sweden)
   Improvement of long-term outcome in neonates and pediatrics: where are we and where should we go? – Maura O’Callaghan (United Kingdom)
   Functional long-term Outcome in ARDS survivors w/o ECMO – Cara Agerstrand (USA)
   Post ICU Care - Serena O’Brien (Ireland)

11:30-12:30 Mobilizing the ECMO patient
   Chairs: Chirine Mossadegh (France), Antonella Degani (Italy), Nicholas Barrett (UK)
   In-hospital ECMO Transport - Ann Alexandersson (Sweden)
   Ambulation on VV-ECMO - Kath Daly (United Kingdom)
   Ambulation on VA-ECMO - Daniel Herr (USA)
   Proning ECMO patients: safe enough? - Sabine Valera (France)

12:30-14:30 Moderated poster sessions, posters will be available during the whole conference
   Kiosk 7 Chirine Mossadegh, Ann Alexandersson
PERFUSION BLOCK

Friday 25th May 2018
North Hall
Translation from English to Czech and vice versa provided
14:30-18:30

14:30-15:20 ECMO circuit: physiology and technical considerations revisited
Chair: Mark Kurusz (USA), Jaroslav Mašín (Czech Republic), Ralf Borchardt (Germany)
Putting in big cannula and turning around the knobs in our VA ECMO supported patients: How to hold a therapeutic balance between supporting hemodynamics and allowing the heart to recover? - Dirk Vlasselaers (Belgium)
Pulsatile ECMO - Pro: potential benefits & technical feasibility – Petr Ostadal (Czech Republic)
Pulsatile ECMO - Con: clinical irrelevance & technical pitfalls - Filip De Somer (Belgium)
The current era of travelling around with our patients on ECLS support: How can we transform our static ECLS equipment into dynamic devices respecting safety transport guidelines? - Alois Philipp (Germany)

15:20-16:00 Update in ECLS circuit technology
Chair: Leen Vercaemst (Belgium), Filip De Somer (Belgium), Robert Bartlett (USA)
Improvement of Oxygenator technology: how can we do better? - Ralf Borchardt (Germany)
Reduction of blood trauma by (computational) pump optimization - Felix Hesselmann (Germany)
Heater cooler devices in ECLS patients: a necessity, convenience or a threat? - Jeffrey Riley (USA)

16:00-17:00 ECMO: The Prague/Czech experience
Chair: Igor Vyklyuk (Czech Republic), Martin Batík (Czech Republic), Antonella Degani (Italy)
ECPR in OHCA – a study from the viewpoint of a perfusionist - František Mlýnský (Prague, Czech Republic)
ECMO transports in the conditions of the Czech Republic – Gabriela Hodkova (Prague, Czech Republic)
Rewarming from accidental hypothermia using ECMO - Jaroslav Gaj (Ostrava, Czech Republic)
The role of echocardiography in ECMO patients - Zdeněk Turek (Hradec Králové, Czech Republic)

17:00 – 18:30 Coffee break

17:30-18:30 The view of the Industry on ECLS: 2019 and beyond
Chair: Alain Conmes (France), Christian Karagiannidis (Germany), Alois Philipp (Germany), Maximilian Malfertheiner (Germany)
Translational science in ECLS: the importance of interaction between clinician – engineer and industry - Mirko Bellato, Chair of Innovation committee of EUROELSO (Italy)
The new European Medical Devices Directives and how it will impact industry and user? - Claudia Diez (Germany)
Speed Date with medical directors from the industry: plans for the next 5 years in ECMO therapy within 5 minutes [EUROELSO partners]
Sevada Avaksoumbatian (Switzerland)
Claudia Diez (Germany)
Kai Harenki (Germany)
Matto Masotti (Italy)
Kai Mischel (Germany)
Carlo A. Tassi (Italy)
Panel discussion with all participants

TEACH PROGRAMME

Thursday 24th May 2018
Club E

8:00-8:30 Introduction / Overview
Marc Dickstein (USA), Jiri Maly (Czech Republic)

8:30-11:00 Session 1: Basics Principles
8:30-9:30 Pressure-Volume Relations and Analysis of:
Preload
Afterload
Contractility
Diastole
Starling Curves
Marc Dickstein (USA)

9:30-10:15 Hemodynamics of Cardiogenic Shock and Mechanical Circulatory Support - Jiri Maly (Czech Republic)
10:15-11:00 Physiology of Gas Exchange - ECMO Basics - Marc Dickstein (USA)

11:00-11:15 Break

11:15-13:15 Session 2: Clinical Applications
Moderator: Marc Dickstein (USA), Panelistes: Jan Bělohlávek (Czech Republic), Petr Ostadal (Czech Republic), Leonardo Salazar (Colombia), Bishoy Zakary (USA), Ivan Netuka (Czech Republic)
11:15-11:45 Case 1: VV ECMO: Systemic Hypoxemia Bishoy Zakary (USA)
11:45-12:15 Case 2: VA ECMO: Harlequin Syndrome Leonardo Salazar (Colombia)
12:15-12:45 Case 3: VA ECMO: Loss of Pulsatility/Venting Petr Ostadal (Czech Republic)
12:45-13:15 Case 4: BiVentricular Failure Jan Bělohlávek (Czech Republic)

13:15 Adjourn
EDUCATIONAL CORNER ADULTS

25.5.2018 FRIDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Club B</th>
<th>Club C</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Club B</th>
<th>Club C</th>
<th>Club B</th>
<th>Club C</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00-9.40</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 1</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 5</td>
<td>Topic 4</td>
<td>Topic 5</td>
</tr>
<tr>
<td>9.45-10.25</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 1</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 5</td>
<td>Topic 4</td>
<td>Topic 5</td>
</tr>
<tr>
<td>10.30-11.10</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 9</td>
<td>Topic 2</td>
<td>Club C</td>
<td>Club B</td>
<td>Topic 8</td>
<td>Topic 7</td>
<td>Topic 8</td>
<td>Topic 7</td>
</tr>
<tr>
<td>11.15-12.00</td>
<td>Club C</td>
<td>Club B</td>
<td>Topic 9</td>
<td>Topic 2</td>
<td>Club C</td>
<td>Club B</td>
<td>Topic 8</td>
<td>Topic 7</td>
<td>Topic 8</td>
<td>Topic 7</td>
</tr>
</tbody>
</table>

25.5.2018 SATURDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 5</th>
<th>Group 6</th>
<th>Club B</th>
<th>Club C</th>
<th>Club B</th>
<th>Club C</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00-10.50</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 5</td>
<td>Topic 4</td>
<td>Topic 5</td>
</tr>
<tr>
<td>10.00-10.50</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 5</td>
<td>Topic 4</td>
<td>Topic 5</td>
</tr>
<tr>
<td>11.00-11.50</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 8</td>
<td>Topic 7</td>
<td>Topic 8</td>
<td>Topic 7</td>
</tr>
<tr>
<td>12.00-12.50</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 8</td>
<td>Topic 7</td>
<td>Topic 8</td>
<td>Topic 7</td>
</tr>
</tbody>
</table>

COORDINATION

26.5.2018 FRIDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Club B</th>
<th>Club C</th>
<th>Club B</th>
<th>Club C</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.30-15.20</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 3</td>
<td>Topic 7</td>
<td>Topic 3</td>
<td>Topic 7</td>
</tr>
<tr>
<td>15.30-16.20</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 4</td>
<td>Topic 7</td>
<td>Topic 4</td>
<td>Topic 7</td>
</tr>
<tr>
<td>16.30-17.20</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 8</td>
<td>Topic 6</td>
<td>Topic 8</td>
<td>Topic 6</td>
</tr>
<tr>
<td>17.30-18.20</td>
<td>Club B</td>
<td>Club C</td>
<td>Topic 7</td>
<td>Topic 6</td>
<td>Topic 7</td>
<td>Topic 6</td>
</tr>
</tbody>
</table>

Topic No | Contact person / Trainers | Topic
--- | --- | ---
1 | Simon WC Sin  
The University of Hong Kong  
Dr. Gloria Tang  
Dr. Polly Tsai  
Dr. Alfred Wong  
Mr. Andy Mok  
Ms. Nicola Tang | USG guided ECMO cannulation: from head to toe

2 | Leen Vercaemst  
Leuven, Belgium  
Tim Jones,  
BSH, UK  
Emmanuel Devolder  
UH Leuven, Belgium  
Jonathan Goftoy  
CHU Liège, Belgium | Circuit-Factors & NOT Human Factors – Determining the right cannulation strategy to meet the needs of the patient

3 | Margaret Farley RN  
Birmingham, UK  
Jo-Anne Foxles RN  
Cambridge, UK | The Thrills and Spills of delivering haemofiltration and plasma exchange during ECMO

4 | Mirjana Cvetkovic  
Ludwick, UK  
Maura O’Callaghan  
London, UK | Troubleshooting on paediatric ECMO

5 | Melanie Bembea  
Baltimore, USA  
Lillian Su  
Stanford University, USA | A 50 minute case based interactive session about unique management pears for the pediatric and adolescent patient. The focus will be on common pitfalls when dealing with pediatric patients including cannula selection and sizing, effects of circuit size on pharmacokinetics, and feasibility of mobilization.

6 | Professor Shingo Ichiba,  
MD, PhD  
Tokyo, Japan | Post-Resuscitation Care after ROSC by ECPR in adult patients

7 | Simon Finney  
Barts Health NHS Trust  
Sachin Shah,  
Jeremy Cordingley  
Debra Gaffey  
Mary White | Brining it together, What would you do?

8 | Dr. Ibrahim Fawzy  
Doha, Qatar  
Dr. Ali Ait Hssain  
Dr. Ahmed Labib  
Mr. Naseem Albadw  
Mr. Darwin Tan | Respiratory ECMO

9 | Justyna Swol  
ALVE, Umea, Norraengby, Sweden  
Matthias Baumgart  
Armin Geise  
Katrin Buttler  
Katrin Emmrich  
Steffen Nietzold | ECPR Cannulation Workshop
ECMO in Experiment Workshop

**OBJECTIVES:**
- Hands-on experimental ECMO and monitoring (invasive, noninvasive)
- ECMO research opportunities
- Principles of experimental research

**COURSE LEADERS:**
Jan Bělohlávek, MD, PhD, Mikuláš Mlček, MD, PhD

**RECOMMENDED FOR:**
Intensivists, perfusionists considering to set up or participate in an experimental research. Beginner and intermediate level.

**PROGRAMME:**
- Welcome, Motivation
- Research Basics
  - Cardiac PV loop, Tissue perfusion, Neuromonitoring,
  - Cardiac Output, Hands-on.
- Pig model of VA ECMO in cardiac arrest, Flow optimization, LV venting, PV loop recording, Microcirculation assessment
- Research Topics Discussion
- Wrap-Up

**DATES:**
May 22, 2018 12:00-18:00
before EURO ELSO 2018 (May 23-26).

**VENUE:**
Charles University, Prague First Faculty of Medicine.
Institute of Physiology 128 00 Praha 2, Albertov 5

**REGISTRATION FEE:** EUR 250

**CAPACITY:** 16 participants

**SUGGESTED READING:**

---

**VENTilation TRaining in Animal Model**

**OBJECTIVES:**
- Hands-on mechanical ventilation in ARDS pig model
- Trends, possibilities and limits of conventional ventilation in ARDS

**COURSE LEADERS:**
Michal Dříhal, MD; Mikuláš Mlček, MD, PhD; Zdeněk Stach MD; Martin Balík MD, PhD, Assoc.Prof.

**RECOMMENDED FOR:**
Intensivists seeking for experience, knowledge and latest trends in ARDS treatment. Intermediate level.

**PROGRAMME:**
- 09:00 Welcome, Get together
- 09:15 - 09:45 Respiratory Physiology & Monitoring at the Bedside. Biomodels
- 09:50 - 10:30 ALI & ARDS Update
- 10:30 - 10:50 Coffee break
- 10:50 - 11:30 Lung Protective Ventilation Strategies, Recruitment maneuvers
- 11:30 - 12:10 Heart-lung interaction, monitoring, limitations
- 12:10 - 12:30 Lunch break
- 12:30 - 13:10 Hands-on (pig model of ARDS)
- 13:10 - 13:30 PEEP and Pressure optimization, RM, Heart-lung interaction, ET
- 13:30 - 14:10 Coffee break
- 14:10 - 15:00 Clinical Perspective Discussion, Wrap Up

**DATES:**
May 23, 9:00 to 18:00
within EURO ELSO 2018, Prague

**VENUE:**
Charles University, Prague First Faculty of Medicine.
Institute of Physiology 128 00 Praha 2, Albertov 5

**REGISTRATION FEE:** EUR 250

**CAPACITY:** 16 participants

**CONTACT, QUESTIONS:**
vetram@email.cz

**SUGGESTED READING:**
Basic Neonatal & Pediatric ECMO Course

**Objectives:**
- Understanding the Basic Physiology of Gas Exchange in VA & VV ECMO
- Basic management of coagulation at the bed side
- Preventing ECMO complications
- Basics of crisis resource management

**Course Leaders:**
- Dr. Vaclav Vobruba, Czech Republic
- Francesca Stoppa, Italy
- Dr. Mark Ogino, USA

**Recommended For:**
- Pediatricians, neonatologists, anesthesiologists, pediatric cardiologists, perfusionists, surgeons

**Program:**
- Physiology of Gas Exchange in ECMO
- Indications and contraindication to ECMO
- Cannulation in neonates and children
- Neo/ped respiratory & cardiac ECMO
- Monitoring (coagulation, heart, lung, kidney, liver and brain) on ECMO
- Hands on: high fidelity simulation

**Dates:**
- EURO ELSO 2018 (May 23-24).
- One day and a half course

**Venue:**
Charles University, Prague
First Faculty of Medicine
Institute of Physiology
128 00 Praha 2, Albertov 5

**Registration Fee:** EUR 250

**Capacity:** 20 participants

---

**Basic Neonatal and Pediatric ECMO Course (Day 1)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-8:30</td>
<td>Registration and Introduction</td>
</tr>
<tr>
<td>08:30-08:50</td>
<td>VA ECMO Physiology and Gas Exchange during VA ECMO [Dr. Mark Ogino, USA]</td>
</tr>
<tr>
<td>08:50-09:05</td>
<td>VA ECMO Indications for VA ECMO [Dr. Pavla Pokorna, Czech]</td>
</tr>
<tr>
<td>09:05-09:20</td>
<td>VA ECMO Cannulation for VA ECMO (neck vs. chest) [Dr. Chris Harvey, UK]</td>
</tr>
<tr>
<td>09:20-09:45</td>
<td>VA ECMO Management and Monitoring of VA ECMO [Dr. Tim Thiruchelvam, UK]</td>
</tr>
<tr>
<td>09:45-10:00</td>
<td>VA ECMO Complications on VA ECMO [Dr. Jan Hričel, Czech]</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>VA ECMO Weaning of VA ECMO [Dr. Jan Hričel, Czech]</td>
</tr>
<tr>
<td>10:15-10:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30-10:50</td>
<td>VA ECMO Hands ON [Starting VA ECMO (Cannula size, pump flow and monitoring)] SIM Team</td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>VA ECMO Understanding VA ECMO (Gas analysis and Vent setting) SIM Team</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>VA ECMO Problems in VA ECMO (Venting, Harlequin Syndrome) SIM Team</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>VA ECMO Weaning of VA ECMO SIM Team</td>
</tr>
<tr>
<td>11:50-12:00</td>
<td>Questions SIM Team</td>
</tr>
<tr>
<td>12:00-13:00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>13:00</td>
<td>VV ECMO Anticoagulation [Dr. Andrea Moscatelli, Italy]</td>
</tr>
<tr>
<td>13:10-13:30</td>
<td>VV ECMO Physiology of Gas Exchange in VV ECMO [Dr. Mark Ogino, USA]</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td>VV ECMO Indication for VV ECMO [Dr. Andrea Moscatelli, Italy]</td>
</tr>
<tr>
<td>13:45-14:10</td>
<td>VV ECMO Management and Monitoring of VV ECMO [Dr. Andrea Moscatelli, Italy]</td>
</tr>
<tr>
<td>14:10-14:25</td>
<td>VV ECMO Complications on VV ECMO [Dr. Francesca Stoppa, Italy]</td>
</tr>
<tr>
<td>14:25-14:40</td>
<td>VV ECMO Weaning of VV ECMO [Dr. Francesca Stoppa, Italy]</td>
</tr>
<tr>
<td>14:40-14:50</td>
<td>VV ECMO Questions</td>
</tr>
<tr>
<td>14:50-15:05</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:00-15:25</td>
<td>VV ECMO Hands ON [How to choose the cannula &amp; connection] SIM Team</td>
</tr>
<tr>
<td>15:25-15:45</td>
<td>VV ECMO Setting pump flow and poor drainage SIM Team</td>
</tr>
<tr>
<td>15:45-16:05</td>
<td>VV ECMO Blood gas analysis: low PaO2 - how to manage SIM Team</td>
</tr>
<tr>
<td>16:05-16:25</td>
<td>VV ECMO Weaning SIM Team</td>
</tr>
<tr>
<td>16:25-17:35</td>
<td>Questions</td>
</tr>
<tr>
<td>17:35</td>
<td>Simulations (Day 1)</td>
</tr>
</tbody>
</table>

**Basic Neonatal and Pediatric ECMO Course (Day 2)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30</td>
<td>Coffee</td>
</tr>
<tr>
<td>07:40-07:50</td>
<td>Human Factor [Dr. Mark Ogino]</td>
</tr>
<tr>
<td>07:50-08:00</td>
<td>Familiarization with the Simulation Area [Dr. Francesca Stoppa/Dr. Mark Ogino]</td>
</tr>
<tr>
<td>08:00-08:15</td>
<td>Scenario 1 VV ECMO SIM Team</td>
</tr>
<tr>
<td>08:15-09:00</td>
<td>Debrief scenario 1</td>
</tr>
<tr>
<td>09:00-09:15</td>
<td>Scenario 2 VV ECMO SIM Team</td>
</tr>
<tr>
<td>09:15-10:00</td>
<td>Debrief scenario 2</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:15-10:30</td>
<td>Scenario 3 VV ECMO SIM Team</td>
</tr>
<tr>
<td>10:30-11:15</td>
<td>Debrief scenario 3 (Can’t oxygenate)</td>
</tr>
<tr>
<td>11:15-11:30</td>
<td>Scenario 4 VV ECMO SIM Team (Ms. Maura O’Callaghan, Dr. Tim Thiruchelvam)</td>
</tr>
<tr>
<td>11:30-12:15</td>
<td>Debrief scenario 4</td>
</tr>
<tr>
<td>12:15-12:30</td>
<td>Scenario 5 VV ECMO SIM Team (Ms. Maura O’Callaghan, Dr. Tim Thiruchelvam)</td>
</tr>
<tr>
<td>12:30-13:15</td>
<td>Debrief scenario 5</td>
</tr>
<tr>
<td>13:15-13:25</td>
<td>Conclusions, end of course, evaluations</td>
</tr>
<tr>
<td>13:30-14:00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>14:00</td>
<td>Onwards Main Conference</td>
</tr>
</tbody>
</table>
INVITED FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Conrad</td>
<td>Philipp Lepper</td>
</tr>
<tr>
<td>Jeremy Cordingley</td>
<td>Pascal Leprince</td>
</tr>
<tr>
<td>Riccardo Cusma Piccione</td>
<td>Laurance Lequier</td>
</tr>
<tr>
<td>Mirjana Cvetkovic</td>
<td>Yongnan Li</td>
</tr>
<tr>
<td>Heidi Dalton</td>
<td>Jonas Lindholm</td>
</tr>
<tr>
<td>Kath Daly</td>
<td>Jaroslav Lindner</td>
</tr>
<tr>
<td>Piero David</td>
<td>Vladimir Lonsky</td>
</tr>
<tr>
<td>Mark Davidson</td>
<td>Roberto Lorusso</td>
</tr>
<tr>
<td>Carl Davis</td>
<td>Matthias Lubnow</td>
</tr>
<tr>
<td>Gareth Davis</td>
<td>Dirk Lunz</td>
</tr>
<tr>
<td>Filip De Somer</td>
<td>Graeme MacLaren</td>
</tr>
<tr>
<td>Antonella Degani</td>
<td>Maximilian Malfertheiner</td>
</tr>
<tr>
<td>Thijs Delnoij</td>
<td>Jung Maly</td>
</tr>
<tr>
<td>Emmanuel Devolder</td>
<td>Jaroslav Mašín</td>
</tr>
<tr>
<td>Matteo Di Nardo</td>
<td>Matto MacSottti</td>
</tr>
<tr>
<td>Rodrigo Diaz</td>
<td>Paolo Meani</td>
</tr>
<tr>
<td>Marc Dickstein</td>
<td>Tejas Mehta</td>
</tr>
<tr>
<td>Dan Dirnberger</td>
<td>Malakia Mandonca</td>
</tr>
<tr>
<td>Troy Dominguez</td>
<td>Dinis Miranda</td>
</tr>
<tr>
<td>Dirk Donker</td>
<td>Kai Mischel</td>
</tr>
<tr>
<td>Katrin Emmrich</td>
<td>Mikuláš Milček</td>
</tr>
<tr>
<td>Margaret Farley</td>
<td>Frantisek Miejnsky</td>
</tr>
<tr>
<td>Ibrahim M. Fawzy</td>
<td>Andy Mok</td>
</tr>
<tr>
<td>Simon Finney</td>
<td>Francesco Morini</td>
</tr>
<tr>
<td>Christoph Fisser</td>
<td>Tracy Morrison</td>
</tr>
<tr>
<td>James Fortenberry</td>
<td>Andrea Moscatelli</td>
</tr>
<tr>
<td>Jo-Anne Fowles</td>
<td>Chirine Mossadeigh</td>
</tr>
<tr>
<td>John Fraser</td>
<td>Thomas Mueller</td>
</tr>
<tr>
<td>Björn Frenchner</td>
<td>Maryam Naim</td>
</tr>
<tr>
<td>Debra Gaffey</td>
<td>Petr Němec</td>
</tr>
<tr>
<td>Jaroslav Gaj</td>
<td>Ivan Netuka</td>
</tr>
<tr>
<td>Luciano Dattinoni</td>
<td>Niklas Nielsen</td>
</tr>
<tr>
<td>Roman Gebauer</td>
<td>Steffen Nietzold</td>
</tr>
<tr>
<td>Anim Geise</td>
<td>Jerry Nolan</td>
</tr>
<tr>
<td>Chiara Giorni</td>
<td>Serena O’Brien</td>
</tr>
<tr>
<td>Jonathan Goffoy</td>
<td>Mark Ogino</td>
</tr>
<tr>
<td>Brian Granu</td>
<td>Ivan Ortega-Deballon</td>
</tr>
<tr>
<td>Anne-Marie Guerguerian</td>
<td>Petr Ostadal</td>
</tr>
<tr>
<td>Yi-git Guner</td>
<td>Michal Otáhal</td>
</tr>
<tr>
<td>Paval Hala</td>
<td>Kenneth Palmer</td>
</tr>
<tr>
<td>Barb Haney</td>
<td>Federico Pappalardo</td>
</tr>
<tr>
<td>Kai Harenski</td>
<td>Chetan Pasrija</td>
</tr>
<tr>
<td>Chris Harvey</td>
<td>Petr Pavlik</td>
</tr>
<tr>
<td>Felix Henning</td>
<td>Giles Peek</td>
</tr>
<tr>
<td>Blair Henry</td>
<td>Vincent Pellegrino</td>
</tr>
<tr>
<td>Daniel Herr</td>
<td>Antonio Pesenti</td>
</tr>
<tr>
<td>Felix Hesselmann</td>
<td>Bistra Paseeva</td>
</tr>
<tr>
<td>Gabriela Hodkova</td>
<td>Alois Philipp</td>
</tr>
<tr>
<td>Dominik Hoechter</td>
<td>Luis Pinto</td>
</tr>
<tr>
<td>Michael Holzer</td>
<td>Pavla Pokorna</td>
</tr>
<tr>
<td>Aparna Hoskote</td>
<td>Jan Pleček</td>
</tr>
<tr>
<td>Jan Hřídel</td>
<td>Lakshmi Raman</td>
</tr>
<tr>
<td>Ali Ait Hssain</td>
<td>Jerome Rambaud</td>
</tr>
<tr>
<td>Marketa Hubatova</td>
<td>Marco Ranieri</td>
</tr>
<tr>
<td>Shingo Ichiba</td>
<td>Marco Ranucci</td>
</tr>
<tr>
<td>Hanneke IJssestdin</td>
<td>Hynek Říha</td>
</tr>
<tr>
<td>Jan Janota</td>
<td>Philipp Lepper</td>
</tr>
<tr>
<td>Pavel Jansa</td>
<td>Pascal Leprince</td>
</tr>
<tr>
<td>Tim Jones</td>
<td>Laurance Lequier</td>
</tr>
<tr>
<td>Jae Seung Jung</td>
<td>Yongnan Li</td>
</tr>
<tr>
<td>Christian Karagiannidis</td>
<td>Jonas Lindholm</td>
</tr>
<tr>
<td>Ann Karimova</td>
<td>Jaroslav Lindner</td>
</tr>
<tr>
<td>Igor Kornilov</td>
<td>Vladimir Lonsky</td>
</tr>
<tr>
<td>Rudi Koster</td>
<td>Roberto Lorusso</td>
</tr>
<tr>
<td>Jan Kunsty</td>
<td>Matthias Lubnow</td>
</tr>
<tr>
<td>Mark Kurusz</td>
<td>Dirk Lunz</td>
</tr>
<tr>
<td>Ahmed Labib</td>
<td>Maximilian Malfertheiner</td>
</tr>
<tr>
<td>Ilona Lalova</td>
<td>Jung Maly</td>
</tr>
<tr>
<td>Lionel Lamhaut</td>
<td>Jaroslav Mašín</td>
</tr>
<tr>
<td>Gyorgy Lang</td>
<td>Matto MacSottti</td>
</tr>
<tr>
<td>Malaika Mandonca</td>
<td>Paolo Meani</td>
</tr>
<tr>
<td>Dinis Miranda</td>
<td>Tejas Mehta</td>
</tr>
<tr>
<td>Kai Mischel</td>
<td>Malakia Mandonca</td>
</tr>
<tr>
<td>Mikuláš Milček</td>
<td>Dinis Miranda</td>
</tr>
<tr>
<td>Frantisek Miejnsky</td>
<td>Kai Mischel</td>
</tr>
<tr>
<td>Andy Mok</td>
<td>Mikuláš Milček</td>
</tr>
<tr>
<td>Francesco Morini</td>
<td>Frantisek Miejnsky</td>
</tr>
<tr>
<td>Tracy Morrison</td>
<td>Andy Mok</td>
</tr>
<tr>
<td>Andrea Moscatelli</td>
<td>Francesco Morini</td>
</tr>
<tr>
<td>Chirine Mossadeigh</td>
<td>Tracy Morrison</td>
</tr>
<tr>
<td>Thomas Mueller</td>
<td>Andrea Moscatelli</td>
</tr>
<tr>
<td>Maryam Naim</td>
<td>Chirine Mossadeigh</td>
</tr>
<tr>
<td>Petr Němec</td>
<td>Thomas Mueller</td>
</tr>
<tr>
<td>Ivan Netuka</td>
<td>Maryam Naim</td>
</tr>
<tr>
<td>Niklas Nielsen</td>
<td>Petr Němec</td>
</tr>
<tr>
<td>Steffen Nietzold</td>
<td>Ivan Netuka</td>
</tr>
<tr>
<td>Jerry Nolan</td>
<td>Niklas Nielsen</td>
</tr>
<tr>
<td>Serena O’Brien</td>
<td>Steffen Nietzold</td>
</tr>
<tr>
<td>Maura O’Callaghan</td>
<td>Jerry Nolan</td>
</tr>
</tbody>
</table>

---

7th EuroELSO Congress on ECMO-ECLS

38 39
• Electronic posters are displayed at the EuroELSO 2018 Congress. All e-posters are available for viewing at e-poster kiosks that are located in the Poster area.

All posters are available throughout the whole duration of the congress – from May 24th, 13:00 to May 26th, 14:00.

**SCHEDULE OF POSTER SESSIONS:**

**Moderated posters – coffee breaks on Friday 25th May**
Authors are advised to be present at their respective kiosks during the coffee breaks on Friday 25th. Posters will not be formally moderated. Authors are encouraged to be available for those attendees who may want to ask questions.

**POSTERS OVERVIEW**

| Kiosk 1 | Moderated posters adult | Moderators: Thomas Mueller, Martin Balik |
| Kiosk 2 | Moderated posters adult | Moderators: Christian Karagiannidis, Matthieu Schmidt |
| Kiosk 3 | Moderated posters adult | Moderators: Peter Schellongowski, Antonella Degani |
| Kiosk 4 | Moderated posters adult | Moderators: Dirk Donker, Felix Henning |
| Kiosk 5 | Moderated posters adult | Moderators: Tim Jones, Luis Pinto |
| Kiosk 6 | Moderated posters experimental | Moderators: Lars Mikael Broman, Maximilian Malferttheiner |
| Kiosk 7 | Moderated posters nursing | Moderators: Chirine Mossadegh, Ann Alexandersson |
| Kiosk 8 | Moderated posters adult | Moderators: Justyna Swol, Nicholas Barrett |
| Kiosk 9 | Moderated posters pediatric | Moderators: Graeme MacLaren, Mirjana Cvetkovic |
| Kiosk 10 | Moderated posters pediatric | Moderators: Malaika Mendonca, Anne-Marie Guerguerian |

**LIST OF MODERATED POSTERS**

| ID 35 | Outcome analysis of extracorporeal life support for primary graft dysfunction after heart transplantation according to the ISHLT classification | Matteo Pozzi (France) |
| ID 38 | Graft failure after heart transplantation: real utility of temporary mechanical circulatory support | Natalia Piatrovich (Belarus) |
| ID 53 | Impact of age on outcomes undergoing venoarterial extracorporeal membrane oxygenation in patients with postcardiomyopathy cardiogenic shock: A propensity score-matched analysis | Dengbang Hou (China) |
| ID 54 | Serum lactate level at the implantation of extracorporeal membrane oxygenation predicts 90-day survival of patients after cardiac surgery complicated by refractory cardiogenic shock | Dengbang Hou (China) |
| ID 67 | Flow-induced accumulation of von Willebrand Factor on the gas exchange surfaces during ECMO – an indicator for coagulation disorder? | Tamara Steiger (Germany) |
| ID 79 | Heparin-free veno-venous extracorporeal membrane oxygenation in adult patients with acute respiratory distress syndrome | Pawel Piwowarczyk (Poland) |
| ID 89 | Duration of untreated period plays a crucial role in pathophysiology of cardiac arrest treated by goal-directed CPR | Daniel Rob (Czech Republic) |
| ID 235 | Comprehensive meta-analysis of in-hospital/30-day mortality after ECMO implantation for refractory postcardiomyopathy cardiogenic shock depending on patients baseline surgical status | Mariusz Kowalewski (Poland, Netherlands) |

| ID 101 | Bivalirudin Anticoagulation for Left-Ventricular Assist Device Implantation on an Extracorporeal Life-Support System in Patients with Heparin-Induced-Thrombocytopenia (HIT)-Antibodies | Michel Morshuis (Germany) |
| ID 102 | Extracorporeal resuscitation as a further modifier of clinical outcome in patients with LVAD implantation and INTERMACS 1 level: A retrospective single center study | Michiel Morshuis (Germany) |
| ID 111 | The impact of a two-day simulation-based ECMO course for ECMO practitioners | Bishay Zakary (United States) |
| ID 121 | Predictors of hospital mortality after extracorporeal cardiopulmonary resuscitation in patients with acute myocardial infarction and in-hospital cardiac arrest | Meng-Yu Wu (Taiwan, Province of China) |
| ID 128 | Extracorporeal membrane oxygenation in pregnancy and postpartum women: a systematic review and meta-regression analysis | John Jiong Yang Zhang (Singapore) |
| ID 190 | Etiology and coronary angiography (CAG) findings in patients with early return of spontaneous circulation (ROSC) versus refractory out of hospital cardiac arrest (OHCA) | Christoph Fisser (Germany) |
| ID 192 | Comparison of Argatroban and Heparin in extracorporeal cardiopulmonary resuscitation in patients with early return of spontaneous circulation (ROSC) versus refractory out of hospital cardiac arrest (OHCA) | Bishay Zakary (United States) |

**POSTERS OVERVIEW**

| Kiosk 1 | Posters adult |
| Kiosk 2 | Posters adult |
| Kiosk 3 | Posters adult |
| Kiosk 4 | Posters adult, Call for cases posters |
| Kiosk 5 | What went wrong, Call for cases posters |
| Kiosk 6 | Posters experimental |
| Kiosk 7 | Posters nursing |
| Kiosk 8 | Call for cases posters |
| Kiosk 9 | Posters pediatric, Call for cases posters |
| Kiosk 10 | Posters pediatric, Call for cases posters |
ID 24: Mycobacterium chimaera Contamination of Heater Cooler Units Used in ECMO is not Aerosolised into the Environment: a Single Center Experience. Julian Barker [United Kingdom]


ID 100: ECMO as a rescue therapy after heart transplantation. Pilje Kang [Republic of Korea]


ID 246: Insufficient Impella-Support and subsequent ECLS implantation in cardiogenic shock. Sergey Vasin, Daniele Camboni [Italy]

ID 247: Survival after extracorporeal life support on weekends compared to weekdays. Zdenek Provaznik [Germany]

ID 251: A single centre audit of rehabilitation of patients on VV and VA ECMO. Allaïna Eden [United Kingdom]

ID 248: Biomarkers for platelet activation as an indicator for clot formation during ECMO. Lukas Paschke [Germany]

ID 249: Biomarkers for platelet activation as an indicator for clot formation during ECMO. Sergey Vasin, Daniele Camboni [Germany]


ID 243: Partitioning of CO2 elimination during vwECMO in ARDS patients. Miriam Manera, Mirko Belliato [Italy]

ID 244: Myocardial ischemia in Patients Undergoing Extracorporeal Membrane Oxygenation. Jie Yu [China]


ID 250: A single centre audit of rehabilitation of patients on VV and VA ECMO. Allaïna Eden [United Kingdom]

ID 251: A single centre audit of rehabilitation of patients on VV and VA ECMO. Allaïna Eden [United Kingdom]

ID 252: Addressing the challenges of ECMO simulation. Guillaume Alnier [Qatar, United Kingdom]

ID 253: Effects of sodium citrate, citric acid and lactic acid on human blood coagulation. Vittorio Scaravilli [Italy]

ID 254: Contemporary extracorporeal membrane oxygenation. Vitaly Poptsov [Russian Federation]

ID 255: Pilot study of Antithrombin supplementation during Extracorporeal Membrane Oxygenation (ECMO). Natalija Piatrovich [Belarus]

ID 256: Changes of blood viscosity parameters during ECMO therapy of cardiac arrest in an animal model treated with thrombolytic. Pavel Hala [United States, Czech Republic]

ID 257: Extracorporeal membrane oxygenation (ECMO) as a bridge to lung transplantation. Bartlomiej Zych [United Kingdom]

ID 258: Monitoring anticoagulation in adults treated on ECMO: Important factors modifying the value of ACT. Jordi Riera [Spain]

ID 259: Involvement of neutrophil extracellular traps in ARDS patients. Floris S. van den Brink [Netherlands]

ID 260: Vitamin D deficiency is associated with severe heart arrest requiring ECMO in patients with sudden cardiac arrest. Jin-Wi [Republic of Korea]

ID 261: Our experience: ECMO referrals from a remote district general hospital in the UK. Rosanna Baker-Wilding [United Kingdom]

ID 262: During venovenous extracorporeal membrane oxygenation (pVAECMO) in urgent heart transplantation. Vitaly Poptsov [Russian Federation]

ID 263: Extracorporeal Membrane Oxygenation limb ischemia in Patients Undergoing Extracorporeal Membrane Oxygenation. Jacky Sue (Australia)

ID 264: Involvement in the changes of oxygenation as a possible quality indicator of ongoing cardiopulmonary resuscitation. Thomas Boucek [Czech Republic]
Kiosk 7 Moderate posters nursing
Moderators: Chirine Mossadegh, Ann Alexandersen

ID 56 Extracorporeal cardiopulmonary resuscitation (ECPR) after near drowning in children: the way to survive?
Sandra van den Berg (Netherlands)

ID 159 20 years of ECMO nursing experiences in a Danish intensive care unit
Hanne Larsen-Pedersen, Inge Dose, Anne Sophie Ågaard (Denmark)

ID 216 Improving the quality of training in an expanding ECLS program: responding to an urgent clinical need
Agnieszka Wypych-Zych (United Kingdom)

ID 232 Institutional experience of long term VA ECMO support in children
Stephanie Larsen (United States)

ID 241 Empowering the bedside ECLS nurse specialist: evaluating a new process for handover
Ruth Phillips (United Kingdom)

ID 261 Gaining experience in managing patients in a newly developed ECLS service: The nurses’ perception
Jade Palomares (United Kingdom)

ID 286 Transport during ongoing resuscitation instead of on-scene resuscitation can be beneficial for selected patients with refractory out-of-hospital cardiac arrest and ventricular fibrillation as a first observed rhythm
Ondrej Franek (Czech Republic)

Kiosk 8 Moderate posters adult
Moderators: Justyna Swol, Nicholas Barrett

ID 20 Extracorporeal membrane oxygenation after pulmonary endarterectomy: a single-centre experience
Mustafa Mert Ozgur (Turkey)

ID 37 Clinical characteristics and outcomes of severe sepsis-related acute respiratory distress syndrome treated with extracorporeal membrane oxygenation: single center experience
Jung-Wan Yoo (Republic of Korea)

ID 60 „ECMO for Greater Poland“ Program - one year experience
Mateusz Puslecki (Poland)

ID 69 Prognostic use of Sequential Organ Failure Assessment (SOFA) score in patients treated with Veno-Arterial extracorporeal membrane oxygenation
Jonathan Dutton, Aaraby Ragavan, Kaushiga Krishnathasan (United Kingdom)

ID 233 Meta-analysis to assess survival after ECMO implantation for refractory postcardiotomy cardiogenic shock in heart transplant/VAD performing centres as compared to non-heart transplant/VAD centres
Mariusz Kowalewski (Poland, Netherlands)

ID 253 VA ECMO after heart transplantation. Does the SAVE score predict survival?
Ana Hurtado-Doce (United Kingdom)

ID 254 Hyperbilirubinemia predicts mortality for patients on ECMO
Charles Hill (United States)

ID 256 Vancomycin penetration ratio to lung tissue in patients undergoing venoarterial extracorporeal membrane oxygenation for cardiac arrest
Drahomira Springer (Czech Republic)

Kiosk 9 Moderate posters pediatric
Moderators: Graeme Mclaren, Mirjana Cvetkovic

ID 45 Experience of the Pediatric ECMO group of the fundación clínica shaio de bogotá, colombia
Gabriel Cassalett (Colombia)

ID 87 Extracorporeal membrane oxygenation support in neonates: A single center experience in Turkey
Emiel Oktu (Turkey)

ID 112 Has the removal of drainage line pressure (DLP) monitoring in paediatric patients on ECMO led to increased haemolysis?
Arun Ghose, Susan Burlton, Andrea Cooper (United Kingdom)

ID 133 Monitoring of regional tissue oxygenation using NIRS may allow successful weaning from vaECMO
Yahya Yildiz (Turkey)

ID 140 Bolus versus continuous enteral feeding in infants on ECMO
Gerald W. Schlager (Austria)

ID 145 Use of an Extracorporeal Membrane Oxygenation Haemostasis Protocol to Standardise Practice and Improve Patient Outcomes
Anna Berent (Australia)

ID 211 Review of blood clots in paediatric ECMO circuits
Takayuki Sueishi (Japan)

ID 268 Congenital diaphragmatic hernia, extracorporeal membrane oxygenation and prenatal and postnatal predictors
Juliana Zoboli (Brazil)

Kiosk 10 Moderate posters pediatric
Moderators: Malaika Mendonca, Anne-Marie Guerguerian

ID 26 Pediatric extracorporeal cardiopulmonary resuscitation in a low-volume center: quality improvement initiative
Roman Korneliuk (Russian Federation)

ID 169 Atrial hemodynamics of malpositioned dual lumen neonatal cannula using computational fluid dynamics (CFD)
Muhammad Jamil, Yahya Yildiz (Turkey)

ID 189 The use of fiberoptic bronchoscopy in neonates receiving extracorporeal life support – a single centre experience
Andrew Torrance MacLaren (United Kingdom)

ID 223 Veno-Arterial ECMO at the Children’s Cardiac Center of Bratislava – 10-year experience
Renata Sklenarova (Slovakia)

ID 224 Outcome of adolescents with severe respiratory failure and sepsis managed with VA-ECMO
Daniel Taylor (United Kingdom)

ID 273 ECMO for children with respiratory failure: the ELSO criteria evolution during the last 30 years
Mariella Vargas-Gutierrez (Canada)

ID 285 Evaluation of bridging versus pump controlled retrograde trial off in weaning from VA ECMO: a retrospective case series
Natasha Donald (United Kingdom)

ID 286 ECMO experience of a university hospital from Turkey with 66 patients
Sultan Goncu (Turkey)
### LIST OF POSTERS

#### Kiosk 1 Posters adult

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Extubation of patients undergoing extracorporeal life support. A retrospective analysis</td>
<td>Omar Ellouze (France)</td>
</tr>
<tr>
<td>77</td>
<td>Rewarming from accidental hypothermia using ECMO. A five-case evaluation</td>
<td>Jeroslav Gaj (Czech Republic)</td>
</tr>
<tr>
<td>99</td>
<td>A contemporary review of extracorporeal membrane oxygenation for cardiac arrests in the cardiac catheterization laboratory</td>
<td>Rajat Sharma (Canada)</td>
</tr>
<tr>
<td>110</td>
<td>The right time: signals for a successful weaning</td>
<td>Marco Sennari (Italy)</td>
</tr>
<tr>
<td>117</td>
<td>Impact of fluid balance on outcomes of patients on veno-venous extracorporeal membrane oxygenation</td>
<td>Frederik Seiler (Germany)</td>
</tr>
<tr>
<td>182</td>
<td>Predicting survival after VA-ECMO for refractory cardiogenic shock: validating the SAWE-score</td>
<td>Martin Stoczkowski (United States)</td>
</tr>
<tr>
<td>194</td>
<td>Measurement of cardiac output in veno-venous (VV) extracorporeal membrane oxygenator (ECMO): echocardiographic versus the inverse Fick approach</td>
<td>Julia Lombardi (Canada)</td>
</tr>
<tr>
<td>218</td>
<td>Building a fully controllable ECMO moulage into a high-fidelity simulation lab</td>
<td>Adam Czapran (United Kingdom)</td>
</tr>
<tr>
<td>264</td>
<td>ECMO as a bridge to surgery in cardiogenic shock</td>
<td>Hiromu Naraba (Japan)</td>
</tr>
<tr>
<td>266</td>
<td>Implementation and results of a new veno-arterial ECMO program in patients with cardiogenic shock</td>
<td>Meho Ali Yuruk (Turkey)</td>
</tr>
<tr>
<td>267</td>
<td>Impact of extracorporeal membrane oxygenation on bleeding in polytrauma patients: a retrospective multicentric study</td>
<td>Martin Brink (Czech Republic)</td>
</tr>
<tr>
<td>268</td>
<td>Infectious disease in ECMO: risk factors and outcome</td>
<td>Andrea Ballotta (Italy)</td>
</tr>
<tr>
<td>270</td>
<td>Outcomes of patients during waiting for lung transplantation who failed to receive transplantation after bridging extracorporeal membrane oxygenation</td>
<td>Joo Han Song (Republic of Korea)</td>
</tr>
</tbody>
</table>

#### Kiosk 2 Posters adult

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>ECMO support in high-risk PCI</td>
<td>Roman Kormeljuk (Russian Federation)</td>
</tr>
<tr>
<td>36</td>
<td>8-year experience of extracorporeal membrane oxygenation in cardiacsurgical patients</td>
<td>Natalia Platirovich (Belarus)</td>
</tr>
<tr>
<td>59</td>
<td>Extracorporeal life support in reversible respiratory failure - how we create procedure Mateusz Puliecki (Poland)</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>A retrospective analysis of in-patient cardiac arrests over one year identifying potential candidates for an in-patient extra-corpoeral cardio-pulmonary resuscitation service.</td>
<td>Ben Stretch, Ben Singer (United Kingdom)</td>
</tr>
<tr>
<td>114</td>
<td>Outcomes comparison of extracorporeal membrane oxygenation versus cardiopulmonary bypass for lung transplantation</td>
<td>Daniel Asi (Argentina)</td>
</tr>
<tr>
<td>116</td>
<td>Are current nutrition recommendations for the critically ill adequate for patients on VV ECMO - experience from a high volume center</td>
<td>Stacy Pelekhaty (United States)</td>
</tr>
<tr>
<td>118</td>
<td>Risk factors of extracorporeal life support after cardiac transplantation</td>
<td>Liu Mingyu (China)</td>
</tr>
<tr>
<td>127</td>
<td>Shunting methods of assisted circulation in national research centre of surgery</td>
<td>Leonid Lokshin (Russian Federation)</td>
</tr>
<tr>
<td>176</td>
<td>Cardiac arrest prior to VV ECMO cannulation is not a predictor of mortality: results from a high volume ECMO center</td>
<td>Kevin Jones (United States)</td>
</tr>
<tr>
<td>184</td>
<td>One more chance: can we predict improving survival by improving time?</td>
<td>Vito Sgromo (Italy)</td>
</tr>
<tr>
<td>277</td>
<td>Extracorporeal membrane oxygenation for adult cardiac arrest: outcomes and predictors of mortality</td>
<td>Hiroshi Naraba (Japan)</td>
</tr>
<tr>
<td>291</td>
<td>ECLS-related coagulopathy and transfusion needs are reversed by circuit exchange Jeronimo Graf (Chile)</td>
<td></td>
</tr>
</tbody>
</table>

#### Kiosk 3 Posters adult

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>147</td>
<td>Single-centre experience with the Impella CP, 5.0 and RP in 108 consecutive patients with profound cardiogenic shock</td>
<td>Sigrun Hjelhølm Kann (Denmark)</td>
</tr>
<tr>
<td>148</td>
<td>Permanent aortic valve closure during peripheral veno-arterial extracorporeal life support: is intra-aortic balloon pump an effective solution?</td>
<td>Paolo Meani (Netherlands)</td>
</tr>
<tr>
<td>174</td>
<td>Total hepatectomy, emergency liver transplant and ECLS</td>
<td>Pervez KH, Sameer Patel, Robert Loveridge (United Kingdom)</td>
</tr>
<tr>
<td>205</td>
<td>Extracorporeal membrane oxygenation for posttraumatic respiratory distress syndrome in adults: Outcomes in a high-volume adult trauma center</td>
<td>Seunghwan Song (Republic of Korea)</td>
</tr>
<tr>
<td>207</td>
<td>Our results comparing arterial graft and extracorporeal membrane oxygenation (ECMO) to percutaneous ECMO</td>
<td>Mehmet Ali Yuruk (Turkey)</td>
</tr>
<tr>
<td>209</td>
<td>A report about complications related to respiratory ECMO; 5 year single center experience Takayuki Ogura (Japan)</td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>Feeding woes in ECMO: gastrointestial and hepatic function during extracorporeal membrane oxygenation in adults and association with feeding intolerance Rozanne Visvalingam (Australia)</td>
<td></td>
</tr>
<tr>
<td>231</td>
<td>Creating a Portable High-Fidelity ECMO Mannequin for Developing an ECMO assisted CardioPulmonary Resuscitation (ECPR) Programme</td>
<td>Alex Rosenberg (United Kingdom)</td>
</tr>
<tr>
<td>234</td>
<td>Utility of routine red blood cell salvage from ECMO circuits</td>
<td>James Doyle (United Kingdom)</td>
</tr>
<tr>
<td>245</td>
<td>LV unloading: what’s our perspective?</td>
<td>Monika Tukaas, Deborah Burns (United States)</td>
</tr>
<tr>
<td>278</td>
<td>Conversion from veno-venous to venoarterial extracorporeal membrane oxygenation Lars Falk, L Mikael Broman (Sweden)</td>
<td></td>
</tr>
</tbody>
</table>

#### Kiosk 4 Posters adult, Call for cases posters

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Extracorporeal liver support: trending epidemiology and outcomes</td>
<td>Dominic Höhl (Germany)</td>
</tr>
<tr>
<td>22</td>
<td>Factors affecting the outcome of heart transplantation in recipients with pretransplant peripheral veno-arterial extracorporeal membrane oxygenation (pVIAECMO)</td>
<td>Vitaly Poptsov (Russian Federation)</td>
</tr>
<tr>
<td>29</td>
<td>Refractory cardiogenic shock: in-hospital resuscitation including ECMO application</td>
<td>Natalia Platirovich (Belarus)</td>
</tr>
<tr>
<td>90</td>
<td>VV-ECMO as bridge toot abdominal surgery</td>
<td>Jorge Ernesto Lopez Matta (Netherlands)</td>
</tr>
<tr>
<td>134</td>
<td>Highly prolonged ECMO run without anticoagulation for catastrophic thoracic trauma</td>
<td>Pedro Gaspar da Costa (Portugal)</td>
</tr>
<tr>
<td>162</td>
<td>Intracranial hemorrhage in adults on ECMO Yiorgos Alexandros Cavayas (Canada)</td>
<td></td>
</tr>
<tr>
<td>287</td>
<td>Venoarterial extracorporeal membrane oxygenation (vaco ECMO) for postcardiotomy cardiac arrest</td>
<td>Martin Brink (Czech Republic)</td>
</tr>
<tr>
<td>275</td>
<td>Hyppoyteninemia induced by ECMO in a cardiac ICU, a new player in the pitch of Cardiopulmonary (CPR)</td>
<td>Victor García-Hernando (Spain)</td>
</tr>
<tr>
<td>281</td>
<td>VA ECMO for prolonged OHCA: Good long-term recovery despite abnormal scans Santosh Sundararajan (United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>287</td>
<td>Venoarterial extracorporeal membrane oxygenation (vaco ECMO) for postcardiotomy cardiac arrest</td>
<td>Ivan Galvan (Mexico)</td>
</tr>
<tr>
<td>275</td>
<td>Hypoproteinemia induced by ECMO in a cardiac ICU, a new player in the pitch of Cardiopulmonary (CPR)</td>
<td>Victor García-Hernando (Spain)</td>
</tr>
<tr>
<td>281</td>
<td>VA ECMO for prolonged OHCA: Good long-term recovery despite abnormal scans Santosh Sundararajan (United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>287</td>
<td>Venoarterial extracorporeal membrane oxygenation (vaco ECMO) for postcardiotomy cardiac arrest</td>
<td>Ivan Galvan (Mexico)</td>
</tr>
<tr>
<td>275</td>
<td>Hypoproteinemia induced by ECMO in a cardiac ICU, a new player in the pitch of Cardiopulmonary (CPR)</td>
<td>Victor García-Hernando (Spain)</td>
</tr>
<tr>
<td>281</td>
<td>VA ECMO for prolonged OHCA: Good long-term recovery despite abnormal scans Santosh Sundararajan (United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>287</td>
<td>Venoarterial extracorporeal membrane oxygenation (vaco ECMO) for postcardiotomy cardiac arrest</td>
<td>Ivan Galvan (Mexico)</td>
</tr>
<tr>
<td>275</td>
<td>Hypoproteinemia induced by ECMO in a cardiac ICU, a new player in the pitch of Cardiopulmonary (CPR)</td>
<td>Victor García-Hernando (Spain)</td>
</tr>
<tr>
<td>281</td>
<td>VA ECMO for prolonged OHCA: Good long-term recovery despite abnormal scans Santosh Sundararajan (United Kingdom)</td>
<td></td>
</tr>
</tbody>
</table>
Kiosk 9 Posters pediatric, Call for cases posters

ID 107 Veno-Arterial ECMO support for influenza B myocarditis with cardiogenic shock
Kalpana Krishnareddy (United Arab Emirates)

ID 120 Successful use of VA ECMO in deep hypothermia cardiac arrest
Jan Bures (Czech Republic)

ID 131 Rescue ECMO pre-transplant: protective effect of Berlin Heart in children
Maria Teresa Cascarano (Italy)

ID 136 Structuring a ECMO team in an adult intensive care unit in São Paulo – Brazil
Bruno de Arruda Bravim (Brazil)

ID 152 Extracorporeal life support: a treatment for near-fatal Taxus baccata poisoning, a case report series
Maïté Vanneste (Belgium)

ID 158 The usage of veno-arterial ECMO in the complex therapy of sepsis-induced cardiomyopathy
Mikhail Ketskalo (Russian Federation)

ID 172 Utilizing adult ECMO resources to initiate emergent ECMO for interfacility ECMO transport in a pediatric trauma patient with Takotsubo cardiomyopathy
Daniel Dinberger (United States)

ID 195 Anticoagulation management of VV-ECMO with bivalirudin in a patient with a recent intracerebral haemorrhage
Carlo Bergamini (Italy)

ID 221 Not for lack’s of trying
Matthew Harvey (United Kingdom)

ID 240 Acute prosthetic aortic valve obstruction leading to free aortic insufficiency - veno-arterial extracorporeal membrane oxygenation as a bridge to surgery
Marta Ponte (Portugal)

Kiosk 10 Posters pediatric, Call for cases posters

ID 19 Von Willebrand disease (acquired) as a cause of life threatening bleeding during veno-arterial ECMO
Miroslav Durila (Czech Republic)

ID 30 Rescue extracorporeal membrane oxygenation as a mechanical resuscitation in postpartum period
Natallia Piatrovich (Belarus)

ID 132 Early mitral bioprosthetic valve leaflet fusion treated by balloon valvuloplasty in patient with ECMO
Petří Fila (Czech Republic)

ID 135 Clottting vs. bleeding – impella, VA-ECMO and continuous renal replacement therapy
Helle Husum Poulsen (Denmark)

ID 149 A case report of a successful ECMO support in a patient with early onset HIV
Alessia Artesani, Mirko Belliato (Italy)

ID 166 Central cannulation ECMO for vasoplastic septic shock in a pediatric patient
Yuri Zuleta (Chile)

ID 167 ECMO-therapy in a case of severe invasive pulmonary aspergillosis following high dose corticosteroid therapy for refractory status asthmaticus
Robin Wuestenberg (Germany)

ID 179 Five year experience results of levosimendan administration prior to weaning of patients on arteriovenous extracorporeal membrane oxygenation (AV-ECMO)
Mutlu Uysal Yazıcı (Turkey)

ID 199 ECMO Outcome Prediction Scores for Estimates of Likelihood of Survival in Pediatric Cardiac Surgery Patients
Shirin Badruddin (Saudi Arabia)

ID 250 Patients on ECMO after mass critical incidents: the ethical and emotional challenges for critical care nurses: a case study
Kevin Murphy (United Kingdom)

ID 255 A ECMO complication: cerebellar edema and hydrocephalus
Sultan Göncü (Turkey)

ID 272 VV or VA ECMO for septic shock with respiratory failure?: six retrospective case analysis report
Hiroyuki Tanaka (Japan)
USEFUL INFORMATION

INFORMATION TO PRESENTERS
Speakers’ Ready Room is situated at the room 21 on the 2nd floor. Please come to the Speakers’ Ready Room at least 1½ hour before the beginning of your session. In case your speech has been scheduled for morning session please come to the Speakers’ Ready Room one day before the day of your presentation.

OPENING HOURS OF SPEAKERS’ READY ROOM:
Wednesday, May 23 10:30-18:30
Thursday, May 24 7:00-18:30
Friday, May 25 7:30-18:00
Saturday, May 26 7:30-13:30

IMPORTANT NOTE
During your lecture you will be using remote control for controlling your presentation. Your own notebook is not allowed.

WE STRONGLY ASK ALL THE SPEAKERS TO KEEP THE TIME OF THEIR PRESENTATIONS.

REGISTRATION
Registration Fee On-site
Physician – ELSO Member 575 €
Physician – Non Member 670 €
Perfusionist, Nurse, Other – ELSO Member 335 €
Perfusionist, Nurse, Other – Non Member 395 €
Students 240 €

Pre-Congress Fee On-site
Physician – ELSO Member 250 €
Physician – Non Member 270 €
Perfusionist, Nurse, Other – ELSO Member 200 €
Perfusionist, Nurse, Other – Non Member 240 €
Students 120 €

OPENING HOURS OF REGISTRATION DESK
Wednesday, May 23 10:30-18:00
Thursday, May 24 7:00-18:30
Friday, May 25 8:30-18:00
Saturday, May 26 8:30-13:30

CLOAKROOM
Cloakrooms are located on the ground floor of the Prague Congress Centre and are free for all registered participants.

CERTIFICATE OF ATTENDANCE
Registered participants will receive a certificate of attendance after the congress.

ACCREDITATION
Accreditation has been granted from the following societies:
• European Accreditation Council for Continuing Medical Education (EACCME) – total of 23 points.
• American Board of Cardiovascular Perfusion (ABCP) – total of 30,3 CEU points.
• Czech Association of Nurses (ČAs) – 6,5 educational hours.

TICKET FOR PUBLIC TRANSPORTATION
All registered participants receive a free ticket for public transportation valid for all congress days.

NAME BADGES
All participants are kindly asked to wear their name badge for all congress activities. Name badges have been colour-coded as follows:
- STEERING COMMITTEE
- FACULTY
- PHYSICIAN
- STUDENT
- PERFUSIONIST
- NURSE/OTHER
- EXHIBITOR
- ORGANIZER

ABSTRACTS
All abstracts will be published in the supplement of Perfusion Journal, which will be distributed to all participants.

WI-FI
Free Wi-Fi is available in the whole congress area.

MOBILE APPLICATION
A Congress app with all information around is available for download to all attendees. With the EuroELSO 2018 mobile app, you have the opportunity to increase your interactivity and have the entire congress ‘in your hand’.

LANGUAGE
The official language of the congress is English. Simultaneous interpretation is not provided.

PROGRAMME CHANGES
The organizers cannot assume liability for any changes in the programme due to external or unforeseen circumstances.

LIABILITY AND INSURANCE
The organizers do not accept responsibility for individual medical, travel or personal insurance. All participants are strongly advised to take out their own personal insurance before travelling to the Congress.

MOBILE PHONES
As a courtesy to fellow attendees, please turn off cell phones during educational sessions.

SMOKING POLICY
For the comfort and health of all participants, smoking is not permitted at any time.

STAFF
Congress staff will be happy to assist to participants during the congress.

RELAX ZONE
Relax Zone for the participants is located on the second floor of the Prague Congress Centre.

Opening Hours of Relax Zone:
Thursday, May 24 8:00-18:30
Friday, May 25 8:00-18:00
Saturday, May 26 8:00-13:30

SHOPPING
Most shops in Prague are open from 9:00 to 18:00, Monday till Saturday. Shops in the city centre are usually open from 9:00 to 20:00, Monday till Sunday. Service is usually included in the bill in bars and restaurants but tips are welcome. If you consider the service good enough to warrant a tip, we suggest about ten percent.

TAXI SERVICE
In the city centre, taxi are easy to take from the street, but we strongly recommend you use hotel taxis or call taxi by phone via a radio taxi service. We recommend using the following taxi companies:
- AAA Taxi +420 14 014
- Profi Taxi +420 14 015

IMPORTANT TELEPHONE NUMBERS
General Emergency for Europe 112
Fire Brigade 150
Ambulance 155
Prague Municipal Police 156
Police 158

CZECH LANGUAGE
Even though at all the hotels, shops and restaurants in Prague are English spoken, we include a few basic Czech words and sentences that can be useful during your stay in Prague.

Slovník - Vocabulary

- Ahoj   hi
- Dobrý den   Hello
- Dobrý večer   Good evening
- Dobrou noc   Good night
- Jak se máte?   How are you?
- Mám se dobře.   I am fine.
- Děkuji   Thank you.
- Kolik to stojí?   how much is it?
- Nechceš jít na pivo?   Would you like to go for a beer?
- Pivo   Beer
- Jeden   One
- Dva   Two
- Tři   Three
- Deset   Ten
Industry sponsored symposium 1
Time: 12:45-13:30
Venue: SOUTH HALL 2B, 2nd floor

AGENDA

1. Cannulation in Extracorporeal Life Support: from Stagnation to Renaissance
   Prof R. Lorusso - Maastricht, THE NETHERLANDS
2. Prevention of limb ischemia: early clinical data on a novel bi-directional flow cannula
   Dr E. Tutungi - Melbourne, AUSTRALIA
3. Clinical experience with ProtekDUO® dual lumen cannulae
   Dr J. K. Bahma - Iowa City, USA

Lunch Box will be distributed to the Symposium attendees.

Industry sponsored symposium 2
Time: 13:45-14:30
Venue: FORUM HALL, 2nd floor

BLEEDING ON ECMO, PATHOPHYSIOLOGY, DIAGNOSIS AND TREATMENT

1. Chair’s welcome
2. “Coagulopathy on ECMO: pathophysiology and diagnosis”
   Dr. Tomáš Kotulák, Prague
3. “Bleeding on ECMO - treatment options and case presentation”
   Dr. Dirk Lunz, Regensburg

LivaNova
Health innovation that matters

CSL Behring
Biotherapies for Life™
**SOCIAL EVENTS**

**GET TOGETHER DRINK**

<table>
<thead>
<tr>
<th>Venue</th>
<th>Date</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prague Congress Centre, Exhibition area 5. května 65, Prague 4</td>
<td>May 24, 2018, 13:00</td>
<td>Included in the registration fee</td>
</tr>
</tbody>
</table>

**CONGRESS DINNER**

<table>
<thead>
<tr>
<th>Venue</th>
<th>Date</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Žofín Palace Slovanský ostrov 8, Prague 1</td>
<td>May 24, 2018, 20:00–24:00</td>
<td>90 EUR</td>
</tr>
</tbody>
</table>

**Programme**

Havelka’s Sisters (swing music of the 20 - 40ties), dulcimer music, buffet style dinner

**Dress Code**

Semi-formal

**NO TRANSPORTATION WILL BE PROVIDED.**

**SOCIAL EVENING WITH AN EXHIBITION VISIT OF MAN-MADE MAN: TECHNOLOGY AND MEDICINE**

<table>
<thead>
<tr>
<th>Venue</th>
<th>Date</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Národní technické muzeum (National Technical Museum) Kostelní 42, Prague 7</td>
<td>May 25, 2018, 20:00–23:00</td>
<td>60 EUR</td>
</tr>
</tbody>
</table>

**Transportation**

Bus transfer from/to Congress venue

19:15–19:30 meeting point at the Prague Congress Centre [entrance no. 10]

22:30–23:00 from the museum to the Prague Congress Centre

**SPONSORS**

We thank the following sponsors for their support!

**PLATINUM SPONSOR**

GETINGE

**BRONZE SPONSOR**

BARD

**CSL Behring**

Biotherapies for Life™

**HOSPITALITY SUITE SPONSOR**

Medtronic

**SPONSOR OF LANYARDS**

STRAKER

**SPONSOR OF NAVIGATION SYSTEM**

MC3 Cardiopulmonary

**SPONSOR OF TEACH PROGRAMME**

XENIOS

**SPONSOR OF YOUNG INVESTIGATOR AWARD**

PROMEDICA INSTITUT

**SPONSORS**

edwards

LivaNova

Orion Pharma

**DELEGATE SPONSORSHIP**

Thomas Brogan – USA
Mirjana Cvetkovic – United Kingdom
Arne Dietl – Australia
 Xiaomei Chen – China
Rajan Saini – United Kingdom
Konstanty Sauldzynski – Poland
Arctic Sun® 5000
TEMPERATURE MANAGEMENT SYSTEM

Setting a new standard for performance, safety and simplicity

XEMEX
IABP Balloon Plus
Short Balloon
Intra Aortic Balloon Pumping (IABP) Balloon Catheter
Made in JAPAN

Proposal of
Shorter and Wider

ZEON MEDICAL INC.
XEMEX is the brand by ZEON MEDICAL INC.
COMMAND
THE FUTURE

TAILORED PERFUSION SOLUTIONS
IN YOUR HANDS
FOR YOUR PATIENTS

RESPECTS THE FLOW

CentriMag®
Acute Circulatory Support System

PediVas®
Acute Pediatric Circulatory Support System

HeartMate 3™
Left Ventricular Assist Device

HeartMate 3 LVAD, CentriMag and PediVas
with Full MagLev Flow Technology

OMNIMEDICS
Komplexní řešení terapie srdečního selhání

Výhradní distributor:
www.omnimedics.cz
info@omnimedics.cz

UC20171333CE © 2018 Medtronic. All rights reserved.

*For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Quantum® Ventilation is approved by CE and FDA.

UCS201713330a EE © 2018 Medtronic. All rights reserved.

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Quantum® Ventilation is approved by CE and FDA.
"I am always consistent"
"I never get tired"
"I save lives"

The first time people met me was in 2003. Since that day you can find an astonishing 24,000 of us, across 84 countries.

I AM LUCAS

Learn more about me on: lucascpr.com

Cardiohelp System
Giving the organs time to heal

www.getinge.com

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