FINAL PROGRAMME
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

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Thomas Mueller, Regensburg, Germany
Luís Pinto, Porto, Portugal
Jonathan Smith, Newcastle, United Kingdom
Justyna Swol, Nuremberg, Germany
Leen Vercaemst, Leyden, Belgium

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EURO-ELSO Scientific Committee

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Aparna Hoskote, London, United Kingdom
Chirine Morsadegh, Paris, France
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Email: euroelso2018@guarant.cz
Website: http://www.guarant.com
## EuroELSO scientific programme overview May 23–26, 2018

### Pre-Congress

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<td>TUESDAY</td>
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<td>Dept. Of Physiology, 1st Medical School, Charles University</td>
<td>Workshop: ECMO Exp - ECMO in Experiment - Design Your Own</td>
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<td>Workshop: Vetram - Ventilation Training in Animal Model: ARDS - before moving to ECMO</td>
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### Main Congress

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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)
ECPR in Russia: past and present – Igor Kornilov (Russia)

13:30-15:00 ECMO retrieval „squeeze“ me panel debate
Chairs: Pascal Leprince (France), Alois Philipp (Germany), Christian Karagiannidis (Germany), Ravi Thiangrajjan (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 Frenczner (Sweden)
Procedures to be performed at the place of retrieval – Martin Balík (Czech Republic)
Medical evacuation of patients on ECMO in Russia – Danil 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), Matthieu Schmidt (France), 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 Peek (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 synergetic strategy to mitigate current conflicts in between – Ivan Ortega-Deballon (Spain)
Marginal donors – suitable for lung transplantation? – Dominik Hoechter (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**

**14:00-14:30 Opening plenary session**

**Chairs:** Alain Combes (France) – EURO-ELSO President, Roberto Lorusso (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 Lorusso (Netherlands), Michael McMullan (USA)

- VV ECMO - Alain Combes (France)
- VA ECMO - Thomas Mueller (Germany)
- Experimental ECMO - Roberto Lorusso (Netherlands)
- Pediatric vs. adult ECMO – similar or different? - Graeme MacLaren (Singapore)

**15:30-16:00 Coffee break**

**16:00-16:25 Life case session – Welcome to Prague!!**

**Moderators:** Roberto Lorusso (Netherlands), John Fraser (Australia), Christian Karagiannidis (Germany)

- 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 Roeleveld (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
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]
   “ECLS 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
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 Barnett (United Kingdom)
Control of respiratory drive by ECCO2R 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 Slangenberg (Germany), Thijis Delnoij (Netherlands)
Whom I should not put on ECMO? - Alain Vuylsteke (United Kingdom)
Isolated acute right heart failure – Federico Pappalardo (Italy)
Immunocompromised patients – Matthieu Schmidt (France)
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 Bromann (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 – Alain Vuylsteke (United Kingdom)
Critical PH during cardiac surgery – Surgeon`s perspective - Tom Verbelien (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), Daniil 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 - Kostelní 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

Adult ECMO – Forum Hall

8:00-8:55 Early bird session

Call for cases 1
Chairs: Matthias Lubnow (Germany), Petr Némec (Czech Republic), Paolo Meani (Netherlands)
VV ECMO and agenae in a lung transplant recipient with massive air leak (Abstract ID: 50) Jordi Riera (Spain)

Successful outcome from prolonged VV ECMO in a patient with anti-synthetase syndrome associated interstitial lung disease [Abstract ID: 258] Inma Alcalde (United Kingdom)
Salvage treatment of vascular spasm during off-pump coronary artery using extracorporeal membrane oxygenator [Abstract ID: 267] Soonchang 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] Svatka Micik (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 Morning session

Cardiogenic shock
Chairs: Pascal Leprince (France), Alois Philipp (Germany), Jann Tengers (Germany)
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 Dostadil (Czech Republic)

Update on mechanical ventilation on ECMO
Chairs: LucianoGattinoni (Italy), Jan Rulíšek (Czech Republic), Giles Peek (United Kingdom/USA)
VT, driving pressure and beyond - Arthur Slutsky (Canada)
Spontaneous breathing on ECMO - Antonio Pesenti (Italy)
Keep the lung at rest in ARDS? Giles Peek (United Kingdom/USA)

10:00-11:00 Coffee break

11:00-11:30 Do we need randomized clinical trials in extracorporeal respiratory support?
Chairs: Antonio Pesenti (Italy), Daniel Brodie (USA), Christian Karagiannidis (Germany)
YES: Alain Combes (France), Antonio Pesenti (Italy), Daniel Brodie USA
NO: Luciano Gattinoni (Italy)

Where are the borders?
Chairs: Lionel Lamhaut (France), Daniele Camboni (Italy), Félix 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 ECPR? - Vincent Pellegrino (Australia)
Panel discussion


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 Jissestijn (Netherlands), Aparna Hoskote (United Kingdom)
Monitoring of brain function during ongoing CPR Jan Bělohlávek (Czech Republic)
Effect of different therapeutic interventions on brain oxygenation and flow [hypothermia, ventilation…] Miroslav Solár (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 Hoechter (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 (Italy)

11:00-11:30 Coffee break

11:30-12:25 Original oral abstracts 1

Chairs: Andreas 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 Intravascular 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)

EUROELSO 2018
BUILDING BRIDGES

EUROELSO 2018
BUILDING BRIDGES
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 65] 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…? VAD 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
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)
Peripartal emergency cases - ECMO in the labor room [Abstract ID: 284] Sara Fill Malfertheiner (Germany)
Rescue venovenous 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 mobile phone 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 Rulíšek, 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 Barbara (USA), Mark Davidson (United Kingdom), Björn Frenchner (Sweden)
Regionalization of ECMO centers – Darryl Abrams (USA)
Should every ARDS center have a VV-ECMO programme? - Nicolas Brechet (France)
Establishing International ELSO Educational Goals and Curriculum. On behalf of ELSO Education Task Force - Rodrigo Diaz (Chile) and Mark Ogino (USA)

11:00-11:30 Coffee break

11:30-12:25 Cannulation challenges – simulation guidance as a clue to deep understanding
Chairs: Mark Ogino (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 Balík (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
Controlling massive spontaneous pulmonary hemorrhage with pneumonorrhaphy after venovenous extracorporeal membrane oxygenation for granulomatosis with polyangiitis [Abstract ID: 155] Madonna Lee (United States)
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
(Abtract 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)
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), Rudi Koster (Netherlands), 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 59) Matteo Pozzi (France)
Single centre experience with extracorporeal cardiopulmonary resuscitation in Denmark
(Abstract ID 168) Margrethe Jermini 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 Antonini (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 262) 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 Kunsty (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 adult patients on modern ECMO: A retrospective analysis of 1214 patients
and 10058 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
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 Broman (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)
- Adjunctive 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 Broman (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)

**17:30-18:30 Cardiac ECMO - Cardiogenic shock [which strategies improve outcome?]**

**Expert:** Peter Roeleveld (Netherlands). **Moderator:** Malika Mendonca (Switzerland)

- Should we offer ECMO to neonatal myocarditis? - Dirk Visselaers (Belgium)
- How to identify residual haemodynamically significant lesions and manage them? - Troy Dominguez (United Kingdom)
- Decompression of the heart? When, how? - Mark Davidson (United Kingdom)

**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 Lequer (Canada)
- My choice of anticoagulation: Bivalirudin - Marco Ranucci (Italy)

**09:00-10:00 ECPR [Can we push the boundaries?]**

**Expert:** Thomas Brigan (USA). **Moderator:** Troy Dominguez (United Kingdom)

- How much time can be allowed until and for cannulation? - Peter Roeleveld (Netherlands)
- How can we optimise outcome after E-CPR? - Ravi Thiagarajan (USA)

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

**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)
- 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 Bembee (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)

**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
- Yiğit 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 IJsselstijn (Netherlands)

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

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

- Simple versus intensive anticoagulation monitoring strategy in pediatric ECLS patients - Laurence Lequier (Canada)
- How I manage coagulation for pediatric VAD – Chiara Giorni (Italy)
- How I study coagulation and platelet function at bedside – Marco Ranucci (Italy)

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

- Kiosk 9: Graeme MacLaren, Mirjana Djetchkov
- Kiosk 10: Malaika Mendonca, Anne-Marie Guerguerian

**12:45 – 13:30 Industry sponsored symposium 1**

**13:45 – 14:30 Industry sponsored symposium 2**

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

**Original/Experimental Pediatric**

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

**Chairs:** Maryam Naim (USA), Andrea Moscatelli (Italy), Laurence 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 adenoviral pneumonia in adults and children: survival and predictors of mortality (Abstract ID: 75) Kollengode Ramanathan (Singapore)
- Inotropic support in neonates requiring venovenous and vena-arterial ECMO for respiratory failure (Abstract ID: 81) 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: 150) 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 Dinmberger (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: 226) 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: 66) 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 Dals (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)

18:00-20:00 Dinner & Networking reception at Zeltu

20:30-22:00 Gala Dinner and Awards ceremony at the Old Town Square

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 Roelleveld (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:** Goi 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)

12:30-13:00 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 Usselstijn (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 Balk [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 Alexanderson [Sweden], John Toomasian [USA]
ECMO Modes: VAV-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 Alexanderson [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 Alexanderson [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 Alexanderson
**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 Vykydal (Czech Republic), Martin Batik (Czech Republic), Antonella Degani (Italy)

ECPR in OHCA – a study from the viewpoint of a perfusionist - František Mlejnský (Prague, Czech Republic)

ECMO transports in the conditions of the Czech Republic – Gabriela Hobkova (Prague, Czech Republic)

Rewarming from accidental hypothermia using ECMO - Jaroslav Gaj (Ostrava, Czech Republic)

The role of echocardiography in ECMO patients - Zdenek Turek (Hradec Kralove, Czech Republic)

17:00 - 17:30 Coffee break

17:30-18:30 The view of the Industry on ECLS: 2019 and beyond

**Chair:** Alain Combes (France), Christian Karagiannidis (Germany), Alois Philipp (Germany), Maximilian Mofarcheiner (Germany)

Translational science in ECLS: the importance of interaction between clinician – engineer and industry - Mirko Belliato, 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)
Claudius Diez (Germany)
Kai Harenski (Germany)
Matto Masotti (Italy)
Kai Mischel (Germany)
Carlo A. Tassi (Italy)

Panel discussion with all participates

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**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 Zakhary (USA), Ivan Netuka (Czech Republic)

11:15-11:45 Case 1: VV ECMO: Systemic Hypoxemia Bishoy Zakhary (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

9:00-9:40  9.00-9.40  Group 1  Group 2  Club B  Club C  Topic 4  Topic 1
9.45-10.25  9.45-10.25  Club B  Club C  Topic 4  Topic 1
10.30-11.10  10.30-11.10  Club B  Club C  Topic 9  Topic 2
11.15-12.00  11.15-12.00  Club C  Club B  Topic 9  Topic 2

15.30-16.20  15.30-16.20  Club B  Club C  Topic 3  Topic 7
16.30-17.20  16.30-17.20  Club C  Club B  Topic 8  Topic 7
17.30-18.30  17.30-18.30  Club C  Club B  Topic 8  Topic 7

26.5.2018 SATURDAY

9.00-9.50  9.00-9.50  Group 5  Group 6  Club B  Club C  Topic 4  Topic 5
10.00-10.50  10.00-10.50  Club B  Club C  Topic 4  Topic 5
11.00-11.50  11.00-11.50  Club C  Club B  Topic 8  Topic 7
12.00-12.50  12.00-12.50  Club C  Club B  Topic 8  Topic 7

COORDINATION

Justyna Swol  Depart. Internal Medicine Pulmonology  Intensive Care, Paracelsus Medical University, Klíníkum Nurnberg Nord, Germany
Francesca Brocci  RN, Pediatric Intensive Care Unit, Emergency Department, Bambino Gesù Children’s Hospital, Rome, Italy

Topic No  Contact person / Trainers  Topic
1  Simon WC Sin  The University of Hong Kong  USG guided ECMO cannulation: from head to toe
Dr. Gloria Tang  Dr. Polly Tsai  Dr. Alfred Wong  Mr. Andy Mok  Ms. Nicola Tang  Beginners level: Learn basic ECMO cannulation (USG guided Seldinger) technique
Intermediate level: Refine ECMO cannulation technique. Learn how to prevent ECMO cannulation complication, troubleshoot difficult ECMO cannulation
Advance level: Learn how to use / create your cannulation model for training in an ECONOMIC way

2  Leen Vercaemst  UZ Leuven, Belgium  Circuit-Factors & NOT Human Factors – Determining the right cannulation strategy to meet the needs of the patient
Tim Jones, BCH, UK  Emmanuel Devolder  UZ Leuven, Belgium  Jonathan Goffay  EHU Liège, Belgium  Goals: To provide the participant with an understanding of the appropriate cannulation strategy to meet the needs of the patient
Aims: Indications for the different types of ECMO support
The rationale behind the choice of cannulation size & sites
The clinical and technical parameters used to assess adequacy of support
The interventions required if support is inappropriate

3  Margaret Farley RN  Jo-Anne Fowles RN  Birmingham, UK  Cambridge, UK  The Thrills and Spills of delivering haemofiltration and plasma exchange during ECMO
Goals: Recognising patients who may need haemofiltration
Recognising patients who may need plasma exchange
Aims: Technical challenges of deciding where to connect ‘Access’ and ‘Return’ lines for the haemofilter
Working with the pressure limitations of your haemofiltration device
Recognising the potential risks associated with connecting the CRRT to the ECMO circuit

4  Mirjana Cvetkovic  Lazarata, UK  Mauria O’Callaghan  London, UK  Troubleshooting on paediatric ECMO
Goals: Medical simulation of the routine and catastrophic ECMO problems.
Aims: Routine ECMO problems
Access issues: Flow fluctuations, Kick-back of the venous line, Haemolysis and raised free haemoglobin
Limb ischaemia, Bleeding cannula sites
Catastrophic ECMO problems: Pump failure, „Suck-down“. Venous or arterial decannulation, Circuit rupture, Air embolism, Cardiac arrest
With VA ECMO: LV distension, Cardiac chamber thrombosis

5  Melanie Bambea  Baltimore, USA  Lillian Su  Stanford University, USA  Kids are not small adults, even adolescents
A 50 minute case based interactive session about unique management pearls 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
Dr. Kei Shimizu, MD, PhD  Professor Ichiro Takeuchi, MD, PhD  Dr. Hiroyuki Tanaka, MD  Aims: Understanding the problems, current evidence and practical management regarding post-resuscitation care in ECPR, especially on targeted temperature management, hemodynamic and respiratory management, and neurological monitoring using rSO2 and/or an aEEG

7  Simon Finney  Bath Health NHS Trust  Bringing it together, What would you do?
Sachin Shah, Jeremy Cordingley  Debra Goffey  Mary White  Aims: The debrief will provide an opportunity to learn on a range of subjects relevant to the care of adult patients and encompass both cardiac and respiratory support.

8  Dr. Ibrahim Fawzy  Doha, Qatar  Respiratory ECMO
Dr. Ali Ait Hssain  Dr. Ahmed Labib  Mr. Naseem Albawd  Mr. Darwin Tan  Aims: This workshop will focus on how to manage the hypoxemia during VV ECMO
Learning Objectives: Differentiate acute and progressive hypoxemia on VV ECMO
Recognize patient, machines and mixed factors
Describe the management of hypoxemia on VV ECMO in relation to the causes

9  Justyna Swol  ALIVE Team, Nuremberg, Germany  ECPR Cannulation Workshop
Matthias Baumgartl  Armin Geise  Katrin Buttler  Katrin Emmrich  Steffen Nietzold  Aims: This workshop provides insights showing that how to perform ECPR successfully.
Learning Outcomes / Objectives: We offer a basic training in advanced vascular access procedure. In this context, we also refer how to implement ECLS in order to assist CPR (ECPR) both in inhospital cardiac arrest (IHCA) or in out-of-hospital cardiac arrest (OHCA).
**ECMO Ex**

*Workshop: Design your ECMO Experiment*

**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
  - Large animal models. Pros and cons
  - Research goals, Methods, Power analysis, Group numbers, Costs
  - Experimental Monitoring - Insights, Concepts
  - 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**

*Mechanical Ventilation Workshop exploring the model and management of ARDS*

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

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

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

**PROGRAMME:**
- 09h Welcome, Get together
- 09h-09h30 Respiratory Physiology & Monitoring at the Bedside. Biomodels
- 09h - 10h ALI & ARDS Update
- 10h - 11h Mechanical Ventilation Principles, Ventilator Modes
- 11h - 12h Lung Protective Ventilation Strategies, Recruitment maneuvers
- 12h - 13h Heart-lung interaction, monitoring, limitations
- 13h - 14h Lunch break
- 13h - 16h Hands-on (pig model of ARDS)
- 16h - 18h PEEP and Pressure optimization, RM, Heart-lung interaction, EIT
- 18h Welcome, Get together
- 18h-19h 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 bedside
- 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
- Neop/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>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration and Introduction</td>
</tr>
<tr>
<td>08:30</td>
<td>VA ECMO</td>
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<tr>
<td>08:30</td>
<td>Physiology and Gas exchange during VA ECMO (Dr. Mark Ogino, USA)</td>
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<td>08:50</td>
<td>Indications for VA ECMO (Dr. Pavla Pokorna, Czech)</td>
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<td>09:05</td>
<td>Cannulation for VA ECMO (neck vs. chest) (Dr. Chris Harvey, UK)</td>
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<td>09:20</td>
<td>Management and Monitoring of VA ECMO (Dr. Tim Thiruchelvam, UK)</td>
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<td>09:45</td>
<td>Complications on VA ECMO (Dr. Jan Hridel, Czech)</td>
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<td>10:00</td>
<td>Weaning of VA ECMO (Dr. Jan Hridel, Czech)</td>
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<td>10:15</td>
<td>Coffee Break</td>
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<tr>
<td>10:30</td>
<td>VA ECMO Hands ON</td>
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<tr>
<td>10:30</td>
<td>Starting VA ECMO [Cannula size, pump flow and monitoring] SIM Team</td>
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<tr>
<td>10:50</td>
<td>Understanding VA ECMO (Gas analysis and Vent setting) SIM Team</td>
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<tr>
<td>11:10</td>
<td>Problems in VA ECMO (Venting, Harlequin Syndrome) SIM Team</td>
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<td>11:30</td>
<td>Weaning of VA ECMO SIM Team</td>
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<td>11:50</td>
<td>Questions SIM Team</td>
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<td>12:00</td>
<td>Lunch Break</td>
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<td>13:00</td>
<td>VV ECMO</td>
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<td>13:00</td>
<td>Anticoagulation (Dr. Andrea Moscatelli, Italy)</td>
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<td>13:30</td>
<td>Physiology of Gas Exchange in VV ECMO (Dr. Mark Ogino, USA)</td>
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<td>13:30</td>
<td>Indication for VV ECMO (Dr. Andrea Moscatelli, Italy)</td>
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<td>13:30</td>
<td>Cannulation for Respiratory Failure (VV ECMO) (Dr. Chris Harvey UK)</td>
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<td>Management and Monitoring of VV ECMO (Dr. Andrea Moscatelli, Italy)</td>
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<td>14:10</td>
<td>Complications on VV ECMO (Dr. Francesca Stoppa, Italy)</td>
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<td>14:25</td>
<td>Weaning from VV ECMO (Dr. Francesca Stoppa, Italy)</td>
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<td>14:40</td>
<td>Questions</td>
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<td>14:50</td>
<td>Coffee Break</td>
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<tr>
<td>15:00</td>
<td>VV ECMO Hands ON</td>
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<td>15:00</td>
<td>VV ECMO start (How to choose the cannula &amp; connection) SIM Team</td>
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<td>15:30</td>
<td>VV ECMO (Settng pump flow and poor drainage) SIM Team</td>
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<td>15:45</td>
<td>VV ECMO [Blood gas analysis: low PaO2 - how to manage] SIM Team</td>
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<td>16:05</td>
<td>VV ECMO [Weaning]</td>
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<td>16:25</td>
<td>Questions</td>
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<td>07:30</td>
<td>Coffee</td>
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<td>07:40</td>
<td>Human Factor (Dr. Mark Ogino)</td>
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<td>07:50</td>
<td>Familiarization with the Simulation Area (Dr. Francesca Stoppa/Dr. Mark Ogino)</td>
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<td>08:00</td>
<td>Scenario 1 VV ECMO</td>
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<td>08:15</td>
<td>Debrief scenario 1</td>
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<td>09:00</td>
<td>Scenario 2 VV ECMO</td>
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<td>09:15</td>
<td>Debrief scenario 2</td>
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<td>10:00</td>
<td>Coffee Break</td>
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<tr>
<td>10:15</td>
<td>Scenario 3 VV ECMO</td>
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<td>10:30</td>
<td>Debrief scenario 3 (Can’t oxygenate)</td>
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<tr>
<td>11:15</td>
<td>Scenario 4 VA ECMO SIM Team (Ms. Maura O’Callaghan, Dr. Tim Thiruchelvam)</td>
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<td>11:30</td>
<td>Debrief scenario 4</td>
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<td>12:15</td>
<td>Scenario 5 VA ECMO SIM Team (Ms. Maura O’Callaghan, Dr. Tim Thiruchelvam)</td>
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<td>12:30</td>
<td>Debrief scenario 5</td>
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<tr>
<td>13:15</td>
<td>Conclusions, end of course, evaluations</td>
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<td>13:30</td>
<td>Lunch Break</td>
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<td>14:00</td>
<td>Onwards Main Conference</td>
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## INVITED FACULTY

<table>
<thead>
<tr>
<th>A</th>
<th>Darryl Abrams</th>
<th>Cara Agerstrand</th>
<th>Naseem Albadw</th>
<th>Ann Alexandersson</th>
<th>Antonio Amodeo</th>
<th>Gail Annich</th>
<th>Marta Vella Antonini</th>
<th>Hannah Appelt</th>
<th>Antonio Arcadipane</th>
<th>Nadia Assaoui</th>
<th>Sevada Avaksoumbatian</th>
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<tr>
<td>B</td>
<td>Matthew Bacchetta</td>
<td>Martin Balk</td>
<td>Ryan Barbara</td>
<td>Nicholas Barrett</td>
<td>Robert Bartlett</td>
<td>Andriy Batchinsky</td>
<td>Matthais Baumgärtl</td>
<td>Mirko Belliato</td>
<td>Antonio Arcadipane</td>
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<td>Daniele Camboni</td>
<td>Gerry Capatos</td>
<td>Nicholas Cavarocchi</td>
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<td>Alain Combes</td>
<td>Steven Conrad</td>
<td>Jeremy Cordingley</td>
<td>Ricardo Cuisma Piccione</td>
<td>Mirjana Cvetkovic</td>
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</tbody>
</table>

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**Additional faculty members not listed in this snippet:**

Mark Ogino
Ivan Ortega-Deballon
Petr Ostadal
Michal Otáhal
Kenneth Palmer
Federico Pappalardo
Chetan Parajia
Petr Pavlik
Giles Peek
Vincent Pellegrino
Antonio Pesenti
Bistra Pesheva
Alois Philipp
Luis Pinto
Pavla Pokorna
Jan Přeček
Lakshmi Raman
Jerome Rambaud
Marco Ranieri
Marco Ranucci
Hynek Říha

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**7th EuroELSO Congress on ECMO-ECLS**

*PRAGUE* 2018

ElsO 2018

BRIDGES

Building Bridges
### POSTER SESSIONS

- 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 – 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 – 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.

### MODERATED POSTERS OVERVIEW

<table>
<thead>
<tr>
<th>Kiosk</th>
<th>Moderated posters adult</th>
<th>Moderators:</th>
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</thead>
<tbody>
<tr>
<td>Kiosk 1</td>
<td>Moderated posters adult</td>
<td>Thomas Mueller, Martin Balik</td>
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<tr>
<td>Kiosk 2</td>
<td>Moderated posters adult</td>
<td>Christian Karagiannidis, Matthieu Schmidt</td>
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<tr>
<td>Kiosk 3</td>
<td>Moderated posters adult</td>
<td>Peter Schellongowski, Antonella Degani</td>
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<tr>
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**Moderators: Tim Jones, Luis Pinto**

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#### Kiosk 8 Moderated posters adult

**Moderators: Lars Mikaël Bromman, Maximilian Malfertheiner**

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**Moderators: Chirine Mossadegh, Ann Alexandersson**

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**Moderators: Graeme Maclaren, Mirjana Cvetkovic**

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**Moderators:** Chirine Mossadegh, Ann Alexandersson

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**Moderators:** Justyna Swol, Nicholas Barrett

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**Moderators:** Graeme MacLaren, Mirjana Cvetkovic

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**Moderators:** Malaika Mendonca, Anne-Marie Guerguerian

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<td><strong>ID 165</strong> Extracorporeal membrane oxygenation in pediatric cardiac non-surgical patients Zuzana Hrubsova (Slovakia)</td>
<td><strong>ID 167</strong> ECMO-therapy in case of severe invasive pulmonary aspergillus following high dose corticosteroid therapy for refractory status asthmaticus Robin Wuestenberg (Germany)</td>
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<td><strong>ID 172</strong> Utilizing adult ECMO resources to initiate emergent ECMO for interfacility ECMO transport in a pediatric trauma patient with Takotsubo cardiomyopathy Daniel Dinmenber (United States)</td>
<td><strong>ID 179</strong> Five year experience results of levosimendan administration prior to weaning of patients on arteriovenous extracorporeal membrane oxygenation (AV-ECMO) Mutlu Uysal Yazıcı (Turkey)</td>
</tr>
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<td><strong>ID 195</strong> Anticoagulation management of VV-ECMO with bivalirudin in a patient with a recent intracerebral haemorrhage Carlo Bergamini (Italy)</td>
<td><strong>ID 199</strong> ECMO Outcome Prediction Scores for Estimates of Likelihood of Survival in Pediatric Cardiac Surgery Patients Shirin Badruddin (Saudi Arabia)</td>
</tr>
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<td><strong>ID 221</strong> Management of V-VECMO in the treatment of severe ARDS with right heart failure Liuxuesong, Liuxiaoqing (China)</td>
<td><strong>ID 250</strong> Patients on ECMO after mass critical incidents: the ethical and emotional challenges for critical care nurses: a case study Kevin Murphy (United Kingdom)</td>
</tr>
<tr>
<td><strong>ID 239</strong> Not for laks’ of trying Matthew Harvey (United Kingdom)</td>
<td><strong>ID 255</strong> A ECMO complication: cerebellar edema and hydrocephalus Sultan Göncü (Turkey)</td>
</tr>
<tr>
<td><strong>ID 240</strong> Acute prosthetic aortic valve obstruction leading to free aortic insufficiency - venoarterial extracorporeal membrane oxygenation as a bridge to surgery Marta Ponte (Portugal)</td>
<td><strong>ID 272</strong> VV or VA ECMO for septic shock with respiratory failure? - six retrospective case analysis report Hiroyuki Tanaka (Japan)</td>
</tr>
</tbody>
</table>
USEFUL INFORMATION

INFORMATION TO PRESENTERS
Speakers’ Ready Room is situated at the room 2.1 on the 2nd floor. Please come to the Speakers’ Ready Room at least ½ 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.

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

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 CEUs points.
- Czech Association of Nurses (ČAs) – 6,5 educational hours.

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

REGISTRATION

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th>On-site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physician - ELSO Member</td>
<td>575 €</td>
</tr>
<tr>
<td>Physician - Non Member</td>
<td>670 €</td>
</tr>
<tr>
<td>Perfusionist, Nurse, Other - ELSO Member</td>
<td>335 €</td>
</tr>
<tr>
<td>Perfusionist, Nurse, Other - Non Member</td>
<td>395 €</td>
</tr>
<tr>
<td>Students</td>
<td>240 €</td>
</tr>
<tr>
<td>Pre-Congress Fee</td>
<td>On-site</td>
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<tr>
<td>Physician - ELSO Member</td>
<td>250 €</td>
</tr>
<tr>
<td>Physician - Non Member</td>
<td>270 €</td>
</tr>
<tr>
<td>Perfusionist, Nurse, Other - ELSO Member</td>
<td>200 €</td>
</tr>
<tr>
<td>Perfusionist, Nurse, Other - Non Member</td>
<td>240 €</td>
</tr>
<tr>
<td>Students</td>
<td>120 €</td>
</tr>
</tbody>
</table>

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

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.

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.
FLOORPLAN AND EXHIBITION

2ND FLOOR

LIST OF EXHIBITORS

1A Getinge
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3 CSL Behring s.r.o.
4A BARD Czech Republic s.r.o.
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5A Driven Pharma s.r.o., Czech Republic
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INDUSTRY SPONSORED SYMPOSIA

FRIDAY, MAY 25

Industry sponsored symposium 1
Time: 12:45-13:30
Venue: SOUTH HALL 2B, 2nd floor

AGENDA
- Cannulation in Extracorporeal Life Support: from Stagnation to Renaissance
  Prof. R. Lorusso - Maastricht, THE NETHERLANDS
- Prevention of limb ischemia: early clinical data on a novel bi-directional flow cannula
  Dr. E. Tutungi - Melbourne, AUSTRALIA
- 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

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

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BLEEDING ON ECMO, PATHOPHYSIOLOGY, DIAGNOSIS AND TREATMENT
Chair: Dr. Dirk Lunz, Regensburg

- Chair’s welcome
- „Coagulopathy on ECMO: pathophysiology and diagnosis”
  Dr. Tomáš Kotulák, Prague
- „Bleeding on ECMO - treatment options and case presentation”
  Dr. Dirk Lunz, Regensburg
SOCIAL EVENTS

GET TOGETHER DRINK

Venue
Prague Congress Centre, Exhibition area
5. května 65, Prague 4

Date
May 24, 2018, 13:00

Price
Included in the registration fee

CONGRESS DINNER

Venue
Žofín Palace
Slovanský ostrov 8, Prague 1

Date
May 24, 2018, 20:00–24:00

Price
90 EUR

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

Venue
Národní technické muzeum (National Technical Museum)
Kostelní 42, Prague 7

Date
May 25, 2018, 20:00–23:00

Price
60 EUR

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

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