FINAL PROGRAMME
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WELCOME

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 Belohlávek, Conference Chair

COMMITTEES

EURO-ELSO Steering Committee

PRESIDENT
Alain Combes, Paris, France

PAST PRESIDENT
Roberto Lorusso, Maastricht, Netherlands

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Jan Bělohlávek, Prague, Czech Republic
Carl Davis, Glasgow, United Kingdom
Matteo Di Nardo, Rome, Italy
Margaret Farley, Birmingham, United Kingdom
Simon Finney, London, United Kingdom
Bjorn Frenczner, Stockholm, Sweden
Chris Harvey, Glenfield, United Kingdom
Felix Henning, Berlin, Germany
Tim Jones, Birmingham, United Kingdom
Thomas Mueller, Regensburg, Germany
Luis Pinto, Porto, Portugal
Jonathan Smith, Newcastle, United Kingdom
Justyna Swol, Nuremberg, Germany
Leen Vercaemst, Leyden, Belgium

EURO-ELSO Scientific Committee

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Lars Mikael Broman, Stockholm, Sweden
Antonella Degani, Pavia, Italy
Aparna Hoskote, London, United Kingdom
Chirine Mossadegh, Paris, France
Christian Karagiannidis, Cologne, Germany
Matthieu Schmidt, Paris, France
Peter Schellongowski, Vienna, Austria
Dirk Donker, Utrecht, Netherlands

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Email: euroelso2018@guarant.cz
Website: http://www.guarant.com
### 7th EuroELSO Congress on ECMO-ECLS

#### EuroELSO scientific programme overview May 23–26, 2018

**TUESDAY 22nd May 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Pre-Congress Workshops: ECMO Ex - ECMO in Experiment - Design Your Own</td>
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**WEDNESDAY 23rd May 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Pre-Congress Support: Ventilation Training in Animal Model: ARDS - before moving to ECMO</td>
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<tr>
<td>12:00</td>
<td>Pre-Congress Support: Ventilation Training in Animal Model: ARDS - before moving to ECMO</td>
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<tr>
<td>12:30</td>
<td>Adult Pre-congress Meet the experts 08:00-12:30</td>
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<tr>
<td>13:00</td>
<td>Adult Pre-congress Meet the experts 08:00-12:30</td>
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**THURSDAY 24th May 2018**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Main Congress</td>
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<td>13:00</td>
<td>Main Congress</td>
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**FRIDAY 25th May 2018**

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>08:00</td>
<td>Social event in Zofin Palace</td>
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<td></td>
<td>Breakfast with tutor and his PhD student, tricks in mentoring</td>
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<tr>
<td>09:00</td>
<td>Adult ECMO 1</td>
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<td>12:30</td>
<td>Adult ECMO 2</td>
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<td>12:45</td>
<td>Adult ECMO 2</td>
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<td>13:30</td>
<td>Adult ECMO 2</td>
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<td>13:45</td>
<td>Adult ECMO 3</td>
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<tr>
<td>14:30</td>
<td>Adult ECMO 3</td>
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<tr>
<td>20:00</td>
<td>Social event in Zofin Palace</td>
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**SATURDAY 26th May 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Call for cases 1</td>
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<tr>
<td>09:00</td>
<td>Brain perfusion in cardiac arrest</td>
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<tr>
<td>13:00</td>
<td>Closing remarks - best abstracts ceremony</td>
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**FESTIVE GET-TOGETHER EVENT IN NATIONAL TECHNICAL MUSEUM PRAGUE**

**EUROELSO PRAGUE 2018**
Thursday 24th May 2018
South Hall 1 (A+B)
8:00-12:30 Meet the expert sessions

8:00-8:55 Hemodynamic support in the cath-lab
Moderator: Jan Bělohlávek (Czech Republic)
Would you use a support in this case? Case report (5 min) presented by the moderator
Any place for pharmacological support? – Guido Tavazzi (Italy)
I prefer Impella – Jorn Tongers (Germany)

9:00-10:00 ECMO indication and set-up
Moderator: Nicholas Barrett (United Kingdom)
Case report on ARDS and ECMO (5 min) presented by the moderator
VV-ECMO indication – Jan Kunstyr (Czech Republic)
Cannulation – double vs single lumen and efficiency/recirculation – Lars Mikael Broman (Sweden)
ECMO circuit – focus on system efficiency – Antonella Degani (Italy)

10:00-10:30 Coffee break

10:30-11:25 Echo(cardio)graphy on ECMO
Moderator: Dirk Donker (Netherlands)
Case report (5 min) presented by the moderator
Vascular echo and cannula placement – Dirk Donker (Netherlands)
RV-assessment – Dinis Miranda (Netherlands)
Weaning from VA-ECMO – Nadia Assaoui (France)

11:30-12:30 How do i manage anticoagulation on ECMO?
Moderator: Peter Schellongowski (Austria)
Case report (5 min) presented by the moderator
What should I monitor? – Mirko Belliato (Italy)
Which anticoagulation? – Maximilian Malferttheiner (Germany)
ECLS without heparin: the time has come, but is it really better? – Glenn Whitman (USA)
**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 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

**16:00-17:00 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)

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**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

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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 Malý, Czech Republic)
  America, the land of opportunities (Matthew Bacchetta, USA)
  ...in Paris, we do everything... (Pascal Leprince, 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), Leen Vercaemst (Belgium)
  Oxygenators – 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 Loruss (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 Molfetheriner (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: Daniel Brodie (USA), Alain Combes (France), Luciano Gattinoni (Italy)
  The EOLIA trial - Alain Combes (France)
  What is next after EOLIA? - Luciano Gattinoni (Italy)
  Panel discussion
7th EuroELSO Congress on ECMO-ECLS

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 ECCO2R in severe lung failure - Christian Karagiannidis (Germany)

10:00-10:30 Coffee break

10:30-11:25 Neurological issues on ECMO
Chairs: Konstanty Szułdrzynski (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), Thijs 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 Lunch break

2:00-3:00 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**

###成人ECMO - 论坛厅

**8:00-8:55** 早鸟 session

**Call for cases 1**

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

- VV ECMO and agnais 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) Svatak Mick (Australia)

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

**8:00-13:30** 早上会议

**9:00-9:55** 新工具监测ECMO患者

**Chairs:** Pascal Leprince (France), Alois Philipp (Germany), Jorn Tengers (Germany)

- Cardiogenic shock, definition and management - Christian Spaulding (France)
- VA ECMO in cardiogenic shock – from retrieval to discharge - Darryl Abrams (USA)

**Update on monitoring and treatment of ECMO**

**Chairs:** Luciano Gattinoni (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** 机械通气生理学

**Chairs:** Matthias Schmidt (France), Christian Karagiannidis (Germany)

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

**11:00-11:30** 咖啡休息

**11:30-12:25** 我们是否需要随机临床试验以支持体外膜氧合支持？

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

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

NO: Luciano Gattinoni (Italy)

**12:30-13:30** 究竟有哪里是边界？

**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 ECPR?** - Vincent Pellegrino (Australia)

Panel discussion

**13:30-14:00** 闭幕词 - 最佳摘要颁奖仪式 论坛厅
12:30-13:30 What went wrong

Chairs: John Toomasian (USA), Višlém 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...? IAD 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] Vidim 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 Rušílek, Germany...Christian Karagiannidis
Poland...Konstanty Szuldrzynski
Romania...TBD
South America...Rodrigo Diaz
Russia...Daniel Shukshin
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 Frenckner (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 Broome (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
Controlling massive spontaneous pulmonary hemorrhage with pneumonorrhaphy after veno-venous 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 [Abstract ID 113] Samuel Galvagno (USA)
Neurological 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 239] Roberto Lorusso (Netherlands)
Predictors of right ventricular recovery in patients supported with VA-ECMO for acute massive pulmonary embolism. [Abstract ID 293] Zachary Kon (USA)

10:00-11:00 Original oral abstracts 3
Chairs: Glenn Whitman (USA), Rudi Koster (Netherlands), Ibrahim M. Fawzy (Qatar)
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 Antonini (Italy)
Percutaneous atrial septostomy approach for left heart unloading on veno-arterial extracorporeal membrane oxygenation 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 282] Jan Balichlavek (Czech Republic)
The use of extracorporeal life support in patients with HIV [Abstract ID 289] Thomas Brogan (USA)
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 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
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 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)
Adjuvant therapies (steroids, bronchoscopy, liquid ventilation, physiotherapy) - Aparna Hoskote (United Kingdom)

15:00-15:30 Coffee break

15:30-16:25 Neuramonitoring on ECMO [How do we get this right?]
Expert: Melanie 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)

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)

09:00-10:00 ECPR [Can we push the boundaries?]?
Expert: Thomas Briigan (USA). Moderator: Troy Dominguez (United Kingdom)
ECPR should be offered in the ED? In the field? Anne-Maria Guerquerian (Canada)
How much time can be allowed until and for cannulation? - Peter Roeleveld (Netherlands)
How can we optimise outcome after E-CPR? - Ravi Thiggarajan (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 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
- 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 Usselstijn (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 - Laurance Lequier (Canada)
- Acquired von Willebrand Syndrome and ECMO – Gail Annich (Canada)
- How I manage anticoagulation for pediatric VAD – Chiara Gibrini (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 Cvjetkovic
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**

**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 adenoviral 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: 81) Micheal 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 Vujicikova (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 Dhirberger (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: 68) 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 Dalso (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)

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 is it 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 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 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 Degoni (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)
Pulsatile ECMO - Pros: potential benefits & technical feasibility - Petr Ostadal (Czech Republic)
Pulsatile ECMO - Cons: 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 Balík (Czech Republic), Antonella Degani (Italy)
ECPR in OHCA - a study from the viewpoint of a perfusionist - František Mlejnek (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 - 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 Malferttheiner (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? - Claudius 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 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
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), Panelists: 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

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26.5.2018 SATURDAY

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26.5.2018 SATURDAY

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

2 | Leen Vercaemst<br>Leuven, Belgium | Circuit-Factors & NOT Human Factors – Determining the right cannulation strategy to meet the needs of the patient
| Tim Jones, BCH, UK | Goals: To provide the participant with an understanding of the appropriate cannulation strategy to meet the needs of the patient
| Emmanuel Devolder <br>UH Leuven, Belgium | Aims: Indications for the different types of ECMO support
| Jonathan Goffey<br>EHU Liège, Belgium | 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<br>Birmingham, UK | The Thrills and Spills of delivering haemofiltration and plasma exchange during ECMO
| Jo-Anne Foxwes RN<br>Cambridge, UK | Goals: Recognising patients who may need DRRF
| | 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 DRRF to the ECMO circuit

4 | Mirjana Cvetkovic<br>Lisbon, UK | Troubleshooting on paediatric ECMO
| Maura O’Callaghan<br>London, UK | 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 cannulation, Circuit rupture, Air embolism, Cardiac arrest

5 | Melanie Bembee<br>Baltimore, USA | With VA ECMO: LV distension, Cardiac chamber thrombosis
| Lilian Su<br>Stanford University, USA | Kids are not small adults, even adolescents

6 | Professor Shingo Ichiba, MD, PhD<br>Tokyo, Japan | Post-Resuscitation Care after ROSC by ECPR in adult
| | Goals: Cardiovascular and cerebral monitoring and management for patients after ROSC by ECPR
| | 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 tSO2 and/or an aEEG

7 | Simon Finney<br>Barts Health NHS Trust | Bringing it together, What would you do?
| | Goals: Cases based on genuine clinical challenges will be presented. The audience will be invited to decide what they would do if placed in a particular situation. Audience members will have electronic key pads to allow them to vote in real-time and enable the audience to reflect on their responses. The sessions are suitable for physicians, nurses and perfusionists.
| | 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<br>Doha, Qatar | Respiratory ECMO
| | Goals: 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 of hypoxemia

9 | Justyna Swol<br>ALIVE Team, Nuremberg, Germany | ECPR Cannulation Workshop
| | Aims: This workshop provides insights showing 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
  - 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:**

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**VEtRAM**

**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 Džhal, 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
09:45 - 10:00 AI & ARDS Update
10:00 - 10:15 Coffee break
10:15 - 11:45 Mechanical Ventilation Principles, Ventilator Modes, Lung Protective Ventilation Strategies, Recruitment maneuvers
11:45 - 12:15 Heart-lung interaction, monitoring, limitations
12:15 - 12:30 Lunch break
12:30 - 12:45 Hands-on (pig model of ARDS)
12:45 - 13:00 PEEP and Pressure optimization, RM, Heart-lung interaction, ET
13:00 - 13:15 Coffee break
13:15 - 16:45 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:**
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
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
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.

**SCHEDULE OF POSTER SESSIONS:**

**Moderated posters – Friday 25th May**

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.

**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.

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<td>Matteo Pozzi (France)</td>
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<td>Impact of age on outcomes undergoing venoarterial extracorporeal membrane oxygenation in patients with postcardiomyopathy cardiac shock: A propensity score-matched analysis</td>
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<td>ID 54</td>
<td>Serum lactate level at the implantation of extracorporeal membrane oxygenation predicts 90-day survival of patients after cardiac surgery complicated by refractory cardiac shock</td>
<td>Dengbang Hou (China)</td>
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<td>ID 67</td>
<td>Flow-induced accumulation of von Willebrand Factor on the gas exchange surfaces during ECMO – an indicator for coagulation disorder?</td>
<td>Tamara Steiger (Germany)</td>
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<td>ID 79</td>
<td>Heparin-free veno-venous extracorporeal membrane oxygenation in adult patients with acute respiratory distress syndrome.</td>
<td>Pawel Piwowarczyk (Poland)</td>
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<td>ID 89</td>
<td>Duration of untreated period plays a crucial role in pathophysiology of cardiac arrest treated by goal-directed CPR</td>
<td>Daniel Rob (Czech Republic)</td>
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<td>Comprehensive meta-analysis of in-hospital/30-day mortality after ECMO implantation for refractory postcardiomyopathy cardiac shock depending on patients baseline surgical status</td>
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<td>Bivalirudin Anticoagulation for Left Ventricular Assist Device Implantation on an Extracorporeal Support System in Patients with Heparin-Induced-Thrombocytopenia (HIT)-Antibodies</td>
<td>Michel Morshuis (Germany)</td>
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<td>ID 102</td>
<td>Extracorporeal resuscitation as a further modifier of clinical outcome in patients with LVAD implantation and INTERMACS 1 level: A retrospective single center study</td>
<td>Michel Morshuis (Germany)</td>
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<td>The impact of a two-day simulation-based ECMO course for ECMO practitioners</td>
<td>Biswas Zakar (United States)</td>
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<td>ID 121</td>
<td>Predictors of hospital mortality after extracorporeal cardiopulmonary resuscitation in patients with acute myocardial infarction and in-hospital cardiac arrest</td>
<td>Meng-Yu Wu (Taiwan, Province of China)</td>
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<td>Extracorporeal membrane oxygenation in pregnancy and postpartum women: a systematic review and meta-regression analysis</td>
<td>John Jiong Yang Zhang (Singapore)</td>
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<td>Etiology and coronary angiography (CAG) findings in patients with early return of spontaneous circulation (ROSC) versus refractory out of hospital cardiac arrest (OHCA)</td>
<td>Bishoy Zakhary (United States)</td>
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<td>ID 192</td>
<td>A comparison of Argatroban and Heparin in patients with refractory acute respiratory failure on venovenous ECMO: a prospective observational study</td>
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<td>ID 217</td>
<td>The impact of cardiopulmonary bypass and surgery on cytochrome P450 activity</td>
<td>Santosh Kumar Sreevalsav Adiraju (Australia)</td>
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ID 88 Long term quality of life in patients treated with extracorporeal membrane oxygenation for postcardiotomy cardiogenic shock Robertas Samalavicius [Lithuania]

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

ID 106 VA and VV ECMO for refractory cardiogenic shock: a single centre case series Adam Czapran [United Kingdom]

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

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

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

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ID 108 Pilot study of Antithrombin supplementation during Extracorporeal Membrane Oxygenation (ECMO) Mauro Panigada [Italy]

ID 204 Fluorescence-guided Simultaneous Distal Perfusion as a Preventive Strategy of Limb Ischemia in Patients Undergoing Extracorporeal Membrane Oxygenation Woo Jin Jang [Republic of Korea]

ID 206 Changes of blood viscoelastic parameters during ECMO therapy of cardiac arrest in an animal model treated with thrombolytic Pavel Hala [United States, Czech Republic]

ID 212 Extracorporeal membrane oxygenation (ECMO) as a bridge to lung transplantation (LTx) - influence of concomitant invasive mechanical ventilation (IMV) on early and long-term outcomes Bartłomiej Zych [United Kingdom]

ID 228 A multicenter retrospective study of ECPR in adults based on ELSO registry Jie Yu [China]

ID 243 Partitioning of CO2 elimination during vV ECMO in ARDS patients Miriam Manera, Mirko Belliato [Italy]

ID 274 Veno-arterial ECMO for severe Hantavirus cardiopulmonary syndrome. Chilean single-center case series Jerónimo Graf [Chile]

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ID 31 Invasive unloading of left ventricle on peripheral veno-arterial extracorporeal membrane oxygenation Natalia Piatrovich [Belarus]

ID 43 Monitoring anticoagulation in adult patients on ECMO: Important factors modifying the value of ACT Jordi Riera [Spain]

ID 68 Involvement of neutrophil extracellular traps in clot formation within the oxygenator during extracorporeal membrane oxygenation Felix Steinkirchner [Germany]

ID 95 Vitamin D deficiency is associated with severe shock requiring ECMO in patients with sudden cardiac arrest JIN WI [Republic of Korea]

ID 201 Our experience: ECMO referrals from a remote district general hospital in the UK Rosanna Baker-Wilding [United Kingdom]

ID 242 VA-ECMO for the treatment of cardiogenic shock in primary PCI for STEMI; a multi-centre experience Floris S. van den Brink [Netherlands]

ID 279 Platelets count during circulatory assistance: Involvement in the changes of oxygenation membrane Alaa AZHARI [France]

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ID 52 Addressing the challenges of ECMO simulation Guillaume Alnier [Qatar, United Kingdom]

ID 85 Effects of sodium citrate, citric acid and lactic acid on human blood coagulation Vittorio Scaravilli [Italy]

ID 120 Contemporary extracorporeal membrane oxygenation (ECMO) induces complement system activation in an ex vivo model Jacky Suen [Australia]

ID 143 Computational simulation of recirculation during venovenous extracorporeal membrane oxygenation Steven A. Conrad [United States]

ID 160 Technical Indicators to Evaluate the Degree of Large Clot Formation inside the Membrane Fiber Bundle of an Artificial Lung in an In Vitro Setup Felix Hesselmann [Germany]

ID 170 Heparin-free extracorporeal life support using an omniphobic coating Andriy I. Batchinsky [United States]

ID 178 New, optimized dual lumen cannula for veno-venous ECMO Ludwig K. von Segesser [Switzerland]

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| ID 159 | 20 years of ECMO nursing experiences in a Danish intensive care unit Hanne Larsen-Pedersen, Inge Dose, Anne Sophie Ågard (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 ECMO service: The nurses’ perception Jade Palomares (United Kingdom) |
| ID 295 | 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) |

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| 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 Krishnathan (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 276 | Vancomycin penetration ratio to lung tissue in patients undergoing venaarterial extracorporeal membrane oxygenation for cardiac arrest Drachomira Springer (Czech Republic) |

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| ID 87  | Extracorporeal membrane oxygenation support in neonates: A single center experience in Turkey Emel Okulu (Turkey) |
| ID 112 | Has the removal of drainage line pressure (DLP) monitoring in paediatric patients on ECMO led to increased haemolysis? Arun Ghouse, Susan Burton, Andrea Cooper (United Kingdom) |
| ID 133 | Monitoring of regional tissue oxygenation using NIRS may allow successfull 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) |

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<p>| Moderators: Malaika Mendonca, Anne-Marie Guerguerian |
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| ID 26  | Pediatric extracorporeal cardiopulmonary resuscitation in a low-volume center: quality improvement initiative Romari 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 fibroptic 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 VV-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 288 | ECMO experience of a university hospital from Turkey with 66 patients Sultan Goncu (Turkey) |</p>
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<td>ID 99 A contemporary review of extracorporeal membrane oxygenation for cardiac arrests in the cardiac catheterization laboratory Rajat Sharma (Canada)</td>
<td>ID 59 Extracorporeal life support in reversible respiratory failure - how we create procedure Mateusz Puliecki (Poland)</td>
<td>ID 174 Total hepatectomy, emergency liver transplant and ECLS Pervez Khan, Sameer Patel, Robert Loveridge (United Kingdom)</td>
<td>ID 29 Refractory cardiogenic shock: in-hospital resuscitation including ECMO application Natalia Patrovich (Belarus)</td>
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<td>ID 110 The right time: signals for a successful weaning Marco Sennari (Italy)</td>
<td>ID 76 A retrospective analysis of in-patient cardiac arrests over one year identifying potential candidates for an in-patient extra-corparal cardio-pulmonary resuscitation service. Ben Stretch, Ben Singer (United Kingdom)</td>
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<td>ID 134 Highly prolonged ECMO run without anticoagulatation for catastrophic thoracic trauma Pedro Gaspar da Costa (Portugal)</td>
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<td>ID 182 Predicting survival after VA-ECMO for refractory cardiogenic shock: validating the SAWE-score Martin Shrak (Canada)</td>
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<td>ID 207 Our results comparing arterial grafted extracorporeal membrane oxygenation (ECMO) to percutaneous ECMO Mehmet Ali Yuruk (Turkey)</td>
<td>ID 162 Intracranial hemorrhage in adults on ECMO Yiorgos Alexandros Cavayas (Canada)</td>
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<td>ID 245 LV unloading: what’s our perspective? Monika Tukaas, Deborah Burns (United States)</td>
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</tbody>
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Kiosk 5 What went wrong, Call for cases posters

ID 136 Bivalirudin for anticoagulation in heparin-induced thrombocytopenia during ECMO
Pedro Gaspar da Costa (Portugal)

ID 137 A Case Report of Application of PiCCO in Monitoring Extracorporeal Lung During ECMO Therapy
Li Yan (China)

ID 139 Paediatric Pseudomonal Sepsis and ECMO: A Case Review
Lorna St John (United Kingdom)

ID 141 Extracorporeal membrane oxygenation in a patient with yew and esculin alpoximation
Jan Stros (Czech Republic)

ID 150 Cannula-associated venous thrombosis after a short-run VV ECMO
Eduard Argudo (Spain)

ID 151 Pitfalls of servo control during ECMO. Key role of the ECMO team for a safe run
Jan Stros (Czech Republic)

ID 171 Should we run ECLS with limited resources? Mechanical circulatory support specialist point of view
Pavla Mokrusova (Saudi Arabia)

ID 183 Is extracorporeal membrane oxygenation an option in pulmonary hemorrhage?. A case report
Francis Emperador (Saudi Arabia)

ID 200 Establishment of extracorporeal membrane oxygenation model in the rat
In Seok Jeong (Republic of Korea)

ID 219 Extracorporeal Membrane Oxygenator (ECMO) in Seok Jeong (Republic of Korea)

ID 229 Detection and analysis of clot deposits in extracorporeal membrane oxygenators using high-resolution computed tomography – a feasibility measurement
Stephan Strassmann (Germany)

ID 237 Using slow continuous ultrafiltration in the ECLS circuit for fluid removal in a low birth weight infant
Donna Smith (United Kingdom)

ID 249 VA ECMO flow effects on tissue impedance in lung regions
Michaela Popková (Czech Republic)

ID 257 Clots and haemolysis on ECMO
Davide Ghiiti (Italy)

ID 260 In vivo evaluation of a novel dual lumen catheter for veno-venous extracorporeal life support
John Toomasian (USA)

ID 269 A novel modular adaptor system enables endovascular access through extracorporeal life support [ECLS] systems
Chetan Pasrija (United States)

Kiosk 6 Posters experimental

ID 23 Potential advantages using of MiEcc “Minimally invasive extracorporeal circulation” vs ECMO “Extracorporeal membrane oxygenation” as a procedural Rescue Strategy in transcatheter aortic valve implantation new horizons
Ignazio Condello (Italy)

ID 61 ECMO simulation scenarios in education
Mateusz Pudlecki (Poland)

ID 73 Immunomodulation of neutrophile granulocytes by heparins and argatroban
Manuel Kopfmüller (Germany)

ID 125 Differences in recirculation : differences according to different methods of cannulation in veno-venous extracorporeal membrane oxygenation
Jong Yun Won (Republic of Korea)

ID 146 In-vitro and in-vivo assessment of oxygenator blood volume for prediction of clot formation in an ECMO circuit [theory and validation]
Nikolai Krivitski (United States)

ID 158 Impact of membrane lung surface area and blood flow on extracorporeal CO2 removal during severe respiratory acidosis
Manuel Kopfmüller (Germany)

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John Toomasian (USA)

Kiosk 7 Posters nursing

ID 42 Coping with new technology – nursing familiarization with Berlin Heart EXCOR®
Lucie Laciaková (Czech Republic)

ID 129 Are nurses prepared for their expected role in current practice?
Jana Heckova (Czech Republic)

ID 164 From observation to quality assurance
Jonas Due [Denmark]

ID 186 Perioperative management of inferior vena cava filter [IVCF] and vv-ECMO in a patient with large retrosternal goiter scheduled for sigmoidectomy
Alice Cavallo (Italy)

Mikhail Ketskalo (Russian Federation)

ID 220 Veno-arterial ECMO and Balloon Atrial Septostomy for High-Risk PCI in a STEMI arrest victims
Jaroslav Pekara (Czech Republic)

ID 27 Single kidney transplantation on VA-ECMO
Ivan Gajkowski (United States)

ID 48 Stroke in Centrimg Due To The Closure Of Aortie Valve
Robert Ratzlaff (United States)

ID 62 The organization of ECMC in hospital internal medicine
Mikhail Ketskalo (Russian Federation)

ID 99 ECMO without anticoagulation
Eduard Argudo (Spain)

ID 98 Unusual uses of ECMO at all India institute of medical sciences India
Sanjeev Chauhan (India)

ID 203 The Current Status of ECMO Transport in Japan - Initial experience by a single institute kenichi suzuki (Japan)

ID 219 Extracorporeal Membrane Oxygenator (ECMO)
Eduard Argudo (Spain)

ID 236 The " VAD - team": a single center multidisciplinary approach to outpatients on VADs
Antonio Giovanni Cammardella (Italy)

ID 294 The psychological impact of considering and instituting an ECMO track for prehospital and hospital teams involved in the care of cardiac arrest victims
Jong Yun Won (Republic of Korea)

Kiosk 8 Call for cases posters

ID 290 Long term ECMO for invasive pulmonary aspergillosis and influenza infection in an immunocompetent adolescent
Cristina Camilo (Portugal)

ID 27 Single kidney transplantation on VA-ECMO while recovering from post-heart transplant graft failure
Robert Ratzlaff (United States)

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Mateusz Pudlecki (Poland)

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ID 290 Long term ECMO for invasive pulmonary aspergillosis and influenza infection in an immunocompetent adolescent
Cristina Camilo (Portugal)
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 138 Structuring a ECMO team in an adult intensive care unit in Sao Paulo - Brazil
Bruno de Arruda Bravim (Brazil)

ID 150 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 Dimberger (United States)

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

ID 221 Management of V-V ECMO in the treatment of severe ARDS with right heart failure
liu xuesong, liu xiaoqing (China)

ID 239 Not for laks’ 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
Petr Fila (Czech Republic)

ID 135 Clotting 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 vasoplectic 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 Yazici (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 Gönçü (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 2.1 on the 2nd floor. Please come to the Speakers’ Ready Room at least 1 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.

REGISTRATION
Registration Fee
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
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 CEUs 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 downloading 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’.

Programming 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 mobile 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.

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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:
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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.

Jak se máte? How are you?
Mám se dobře. I am fine.
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?
Nechcete jít na pivo? Would you like to go for a beer?
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Deset Ten

Useful Information
BRIDGES

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The American Board of Cardiovascular Perfusion will allocate the category I CEU to those perfusionists who will attend the daily meeting program (Perfusion Block, Adult or Neonatology and Pediatric PreCongress and Main Congress).

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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

**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

**Transportation**
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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