



Precongress - Adult

Wednesday 23th May 2018

12:00-18:00

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 Delnois (Netherlands)

South Korean view - JS Jung (South Korea)

Taiwan view - YS Chen (Taiwan)

E-CPR in Russia: past and present - Igor Kornilov (Russia)

Comments from the chairs/panel discussion

13:30-15:00

ARDS and VV ECMO „squeeze me“ panel debate

Chairs: *Antonio Pesenti (Italy), Mathieu Schmidt (France), Chris Harvey (UK), Nick Barrett (UK), Petr Pavlík (Czech Republic)*

How would you ventilate this patient? Case presentation - Martin Balik (Czech Republic)

Open lung approach challenged. Just ventilate - Arthur Slutsky (Canada)

My study showed, that ECMO back-up is rationale - Giles Peek (UK/USA)

I am not sure what is the best in the early phase - Alain Combes (France)

Comments from the chairs/panel discussion

15:00-15:30 Coffee break





15:30-16:55

ECMO retrieval „squeeze“ me panel debate

Chairs: *Pascal LePrince (France), Alois Philipp (Germany), Christian Karagiannidis (Germany), Ravi Thiagarajan (USA), Vincent Pellegrino (Australia) TBC*

The transports background – what has to be prepared beforehand - Lars Broman (Sweden)

How to be safe for the crew and for the patient - Bjorn Freckner (Sweden)

Procedures to be performed at the place of retrieval - Martin Balik (Czech Republic)

Medical evacuation of patients on ECMO in Russia - Daniel 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)

Comments from the chairs/panel discussion

17:00-18:30

Donation after circulatory death with ECPR coexistence – burning questions

Chairs: *Steve Brooks (Canada), Chris Harvey (UK), YS Chen (Taiwan), Steffen Weber-Carstens (Germany), Brian Grunau (Canada)*

ECMO for life-saving and organ preservation purposes: A synergic strategy to mitigate current conflicts in between - Ivan Ortega-Deballon (Spain)

Marginal donors – suitable for lung transplantation? – TBC

Brain death determination on ECMO Nicolas Barrett (UK)

Ethical considerations in "unilateral decision-making" - Blair Henry A (Canada)

Comments from the chairs/panel discussion

Thursday 24th May

8:00-12:30 Meet the expert sessions

8:00-8:55

Hemodynamic support in the cathlab

Moderator: *Jan Bělohávek (Czech Republic)*

Would you use a support in this case? Case report (5 min) presented by a moderator

Any place for pharmacological support? – Guido Tavazzi (Italy)

I would use ECMO - Andreas Schober (Austria)





I prefer Impella - Jorn Tongers (Germany)

9:00-10:00

ECMO indication and set-up

Moderator: Nick Barrett, UK

Case report on ARDS and ECMO (5min) presented by a moderator

VV-ECMO indication - Jan Kunstyr (Czech Republic)

Cannulation - double vs single lumen and efficiency/recirculation - Lars 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 (5min) presented by a 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 (5min) presented by a moderator

What should I monitor? - Mirko Belliato (Italy)

Which anticoagulation? - Maximilian Malfertsheimer (Germany)

ECLS without heparin: the time has come, but is it really better? - Glenn Whitman (USA)





Main conference - Adult

Thursday 24th May

14:00-18:30 – Congress Hall

14:00-14:30

Opening plenary session

Chairs: Alain Combes (France) – EURO-ELSO President, Roberto Lorusso (Netherlands) – EURO-ELSO Past-president, Michael Mc Mullan (USA) – ELSO President, Jan Bělohávek (Czech Republic) – Congress Chair

Welcome to EURO-ELSO 2018

Awards for grants and call for grants - Alain Combes (France)

14:30-15:30

ECMO: Year in review

Chairs: Alain Combes (France), Roberto Lorusso (Netherlands), Michael Mc Mullan (USA)

VV - Alain Combes (France)

VA - Thomas Mueller (Germany)

Experimental ECMO - Roberto Lorusso (Netherlands)

Pediatric vs. adult ECMO – similar or different? - Graeme MacLaren (Australia)

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 – Combined bronchoscopy/X-ray guided stenting on VV ECMO – Jiri Votruba & Vaclav Vobruba & Jan Bělohávek (Czech Republic)

Life in box presentation - ECMO switch to LVAD – Ivan Netuka & Jiri Maly (Czech Republic)

Life case – PCI on VA ECMO - Jan Bělohávek & 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/UK)*

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), Mike McMullan (USA)

Friday 25th May

Adult 1

8:00-8:55

Breakfast with tutor and his PhD student/trainee TBC

Dr. Bartlett and..... Michigan, USA TBC

Tim Jones and.....Birmingham, UK TBC

Jan Belohlavek and.....Prague, Czech Republic

9:00-12:30 Morning Session

9:00-10:00

ECPR – current status

Chairs: *Jan Bělohávek (Czech republic), Brian Grunau (Canada), Yih-Sharnq Chen (Taiwan), Daniele Camboni (Germany)*

Prehospital logistics – the major determinant of 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

10:30-11:30

ECMO – long term outcome, economics, cost, reimbursement

Chairs: *Thomas Mueller (Germany), Daniel Herr (USA), Vincent Pellegrino (Australia), Schingo 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 (UK), 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)

12:30-14:00 Poster oral presentations, posters available during the whole conference

12:30-13:00 Lunch break

13:00-14:00 Satellite desert symposia

14:00-18:00 Afternoon session

14:00-15:30





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 (UK)

To remain doubtful – reasonable in science – the TTM2 trial proposal – Niklas Nielsen (Sweden)

15:30-16:30

Please, be smart on ECMOing and think

Chairs: Thomas Mueller (Germany), Jonathan Smith (UK), Carl Davis (UK)

"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)

16:30–17:00 Coffee break

17:00-18:00

Ethical issues on ECMO

Chairs: Antonio Pesenti (Italy), Peter Schellongowski (Austria), Mirko Belliato (Italy)

Case presentation: Matheuw 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

Adult 2

8:00-8:55 Early bird session





ECCO2R in respiratory failure

Moderator: Mirko Belliato (Italy)

Case report (5min) presented by a moderator

Technical considerations - Christian Karagiannidis (Germany)

ECCO2R in ARDS - Marco Ranieri (Italy)

ECCO2R in COPD - Nick Barrett (UK)

9:00-12:30 Morning Session

9:00-10:00

Transition from ECMO to other technologies – surgical perspectives

Chairs: *Nicolas Cavarocchi (USA), Gareth Davis (UK), Justyna Swol (Germany)*

...happy to be there, after all these years... (Ivan Netuka, Czech Republic)

America, the land of opportunities (Matthew Bacchetta, USA)

...in Paris, we do everything... (Pascal Leprince, France)

10:00-10:30 Coffee break

10:30-11:30

Technical issues – you need to know, what you put your patients on!

Chairs: *Robert Bartlett (USA), Igor Kornilov (Russia), Leen Vercaemst (Belgium)*

Oxygenators – Filip DeSomer (Belgium) TBC

Pumps – Mirko Belliato (Italy)

Available cannulas - Lars Broman (Sweden)

Technical prerequisites for safe transport on ECMO - Alois Phillip (Germany)

Panel discussion

11:30-12:30

LV unloading in VA ECMO

Chairs: *Michael Broomé (Sweden), Chris Harvey (UK), Dirk Donker (Netherlands), Roberto Lorusso (Netherlands)*





Intensivist perspective - Vincent Pellegrino (Australia)

Cardiologist perspective - Paolo Meani (Italy)

Surgical perspective - Nicolas Cavarocchi (USA)

Simulator perspective - Michael Broomé (Sweden) and Dirk Donker (Netherlands)

12:30-14:00 Poster oral presentations, posters available during the whole conference

12:30-13:00 Lunch break

13:00-14:00 Satellite desert symposia

14:00-18:00 Afternoon session

14:00-15:00

Acute renal failure on ECLS

Chairs: *Christian Karagiannidis (Germany), Antonio Pesenti (Italy), Maximilian Malfertsheimer (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)

15:00-16:30

EOLIA and beyond

Chairs: *Daniel Brodie (USA), Marco Ranieri (Italy), Luciano Gattinoni (Italy)*

EOLIA trial - Alain Combes (France)

What is next after EOLIA? - Luciano Gattinoni (Italy)

Panel discussion

16:30 – 17:00 Coffee break

17:00-18:00





Lung transplantation from ECMO

Chairs: Daniel Brodie (USA), Dominik Hoechter (Germany), Gyoergy Lang (Austria)

- Pro: Mathew Bacchetta (USA)
- Maybe: Antonio Arcadipane (Italy)
- Con: Dominik Hoechter (Germany)

Friday 25th May

Adult 3

8:00-8:55

Call for cases/original abstracts presentations

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 - Marco Ranieri (Italy)

Avoidance of intubation in severe COPD - Nick Barrett (UK)

Control of respiratory drive by ECCO₂R in severe lung failure - Christian Karagiannidis (Germany)

10:00-10:30 Coffee break

10:30-11:30

Neurological issues on ECMO

Chairs: Konstantin Szuldrinsky (Poland), Mathieu Schmidt (France), Jim Fortenberry (USA)

Neurological Complications - Roberto Lorusso (Netherland)

Neuromonitoring on ECMO – Aparna Hoskote (UK)

Brain stem testing on ECMO Nicolas Barrett (UK)





Impact of hypercapnia and hypoxemia on neurological long-term outcome - TBD

11:30-12:30

Tricky situations on ECMO

Chairs: *Graeme McLaren (Australia), Tobias Spangenberg (Germany), Thijs Delnois (Netherlands)*

Who I should not put on ECMO? - Alain Vuylsteke (UK)

Isolated acute right heart failure - Federico Pappalardo (Italy)

Immunocompromised patients - Mathieu Schmidt (France)

Septic cardiomyopathy - Nicolas Brechot (France)

12:30-14:00 Poster presentations

12:30-13:00 Lunch break

13:00-14:00 Satellite dessert symposia

14:00-18:00 Afternoon session

14:00-15:30

ECMO in sepsis

Chairs: *Bjorn Freckner (Sweden), Graeme McLaren (Australia), Antonio Pesenti (Italy), Justyna Swol (Germany)*

Microbiological surveillance in ECMO Gerry Capatos (South Africa)

Considerations to start ECMO in sepsis - Kenneth Palmer (Sweden)

Source of infection in patients on ECMO – Cecile Aubron (Australia)

Antibiotic strategies in septic ECMO patient - Lars Broman (Sweden)

Sepsis and ECMO in children - Graeme Mac Laren (Australia)

15:30-16:30

Critical pulmonary hypertension management





Chairs: Christian Karagiannidis (Germany), Mattheuw Bacchetta (USA) Bart Meyns (Belgium) TBC

How to avoid critical PH? - Pavel Jansa (Czech Republic)

Critical PH during cardiac surgery – Anesthesiologist perspective - Alain Vuylsteke (UK)

Critical PH during cardiac surgery – Surgeon´s perspective Bart Meyns (Belgium)

Is ECMO the optimal device for critical PH? (Mathew Bacchetta, USA)

16:30 – 17:00 Coffee break

17:00-18:00

ECLS in trauma, indications and controversies

Chairs: Justyna Swol (Germany), Ravi Thiagarajan (USA), Daniel Shelukhin (Russia)

Traumatic brain injury, still an absolute contraindication for ECLS? - Gareth Davis (UK)

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

20:00-23:00 Ceremonial event in National Technical Museum Prague

Exhibition Man-Made Man: Technology and Medicine

21:00-22:00

We built on history

Chairs/moderators: Alain Combes (France), Jan Bělohlávek (Prague)

Artur 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

Saturday 26th May





Adult ECMO

8:00-9:00 Early bird session

Complications on ECMO – What went wrong session

Chairs: Mattias Lubnow (Germany), Petr Němec (Czech Republic)

9:00-13:30 Morning session

9:00-9:55

Cardiogenic shock

Chairs: Pascal LePrince (France), Alois Phillip (Germany), Joern Tongers (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 Ostadal (Czech Republic)

10:00-11:00

Update on mechanical ventilation on ECMO

Chairs: Luciano Gattinoni (Italy), Jan Rulisek (Czech Republic), Giles Peek (UK/USA)

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

Spontaneous breathing on ECMO - Antonio Pesenti (Italy)

Keep the lung at rest in ARDS? Michael Quintel (Germany) TBC

11:00-11:30 Coffee break

11:30-12:25

Do we need randomized clinical trials in extracorporeal respiratory support?

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

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

NO: Luciano Gattinoni (Italy) and Michael Quintel (Germany)

12:30-13:30





Where are the borders?

Chairs: Lionel Lamhaut (France), Daniele Camboni (Germany), TBD

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 Closing remarks – best abstract ceremony

Saturday 26th May

8:00-9:00 Early bird session

Call for cases session

9:00-13:30 Morning session

Hot topics/What went wrong session

09:00-9:55

New tools to monitor ECMO patients

Chairs: John Fraser (Australia), Simon Finney (UK), Glenn Whitmann (USA)

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

Electrical impedance tomography - Mathieu Schmidt (France)

Monitoring of microcirculation - Dinis Miranda (Belgium)

New ways to monitor coagulation on ECMO – including Von Willebrands deficiency - Dominik Hoechter (Germany)

10:00-11:00

Procedural logistics during ECPR – interactive case based session

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

Out of hospital ECMO implantation - Lionel Lamhaut (France)

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





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

11:00-11:30 Coffee break

11:30-12:25

Add based on submitted abstracts

Utilization of a special anti-thrombogenic coating for heparin free ECLS – Andriy Batchinsky (USA)

12:30-13:30

Add based on submitted abstracts

Saturday 26th May

9:00-13:30 Morning session

Miscellaneous

9:00-9:55

ECMO centers organization and education

Chairs: Ryan Barbaro (USA), Mark Davidson (UK), Bjorn Freckner (Sweden)

Should every ARDS center have VV ECMO programme? - Nicolas Brechot (France)

Regionalization of ECMO centers - Darryl Abrams (USA)

Establishing International ELSO Educational Goals and Curriculum. On behalf of ELSO Education Task Force - Rodrigo Diaz (Chile) and Mark Ogino (USA)

10:00- 11:00

**Availability of ECMO in Europe. Rationale for international networking? A snapshot
TBC**

5 min rapid fire presentations + panel discussion at the end

Bulgaria...Bistra Pesheva TBC

Czech republic...Jan Rulíšek

Germany...Christian Karagiannidis





Latvia...TBD

Poland...Konstantin Szuldrinski

Romania...TBD

South America...Rodrigo Diaz

Russia... Daniel Shelukhin

UK...Nick Barret

Any more country?...anybody from the audience?

Panel discussion

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 – Mark Dickstein (USA).

12:30-13:30

Emergencies for ECMO in special populations

Chair: *Bishoy Zakhary (USA), TBD, TBD*

- ...blocked airways - Martin Balik (Czech Republic)
- ...hematological patients - Peter Schellongowski (Austria)
- ...severe obese patients - Ibrahim Hassan (Qatar)

