



EuroELSO 2017 6th International Congress ECMO
4 – 7 May 2017, Maastricht, the Netherlands

Annual Conference

Friday – May 5th

08:00 – 13:30

Registration

13:30 – 14:00

Auditorium 1. Opening Ceremony

Jos Maessen (Maastricht), Mike McMullan (Seattle), Roberto Lorusso (Maastricht) – Michel Jacobs (Maastricht) - Centres of Excellence Awards (Michael Heard - ELSO) – Jim Fortenberry (ELSO - Membership)

14:00-15:15

Auditorium 1. A year in review

Chairs: *Jos Maessen (Maastricht), Mike McMullan (Seattle), and Roberto Lorusso (Maastricht)*

Best adult VV-ECMO papers. *Thomas Mueller (Regensburg, Germany)*

Best adult VA-ECMO papers. *Alain Combes (Paris, France)*

Best pediatric papers. *Peter P. Roeleveld (Leiden, The Netherlands)*

Best experimental papers. *Xiaotong Hou (Beijing, China)*

Panel Discussion

15:15- 15:45

Coffee Break

15:45 – 16:15

Auditorium 1. Euro-ELSO Grants Presentations and 2017 winners

Chairs: *James Fortenberry (Atlanta, Georgia) – Leen Vercaemst (Leuven, Belgium)*

Characterizing changes in muscle quantity and quality in critically ill patients receiving veno-venous ECMO for severe respiratory failure. *Bronwen Connolly (London, UK)*

Neuroimaging to Evaluate Outcomes in Neonates following ECMO Treatment (NEONET). *Dullipala Anand (Glasgow, Scotland)*

Attenuation of Ischemia Reperfusion Injury after E-CPR with Selective Adenosine Agonist. *James H. Mehaffey (Charlottesville, USA)*

Announcement of 2017 Euro-ELSO Research Grants winners

- 16:15 – 17:15 **Auditorium 1. Best Abstracts (6-8 abstracts)**
- Chairs: *Patrick Weerwind (Maastricht, The Netherlands) – Carl Davis (Glasgow, Scotland)*
- 17:15 – 18:15 **Auditorium 1. ECMO 2017: where are we and what should industry look at ?**
- Chairs: *Bob Bartlett (Ann Arbor, Michigan) – Alois Philipp (Regensburg, Germany)*
- What kind of pumps should we have? One-fits-all or individualized system? TBD
- Are cannulas really improving? *Joseph Zwischenberger (Lexington, Kentucky)*
- The ideal oxygenator: the actual facts and the dream. *Philip De Somer (Gent, Belgium)*
- Panel Discussion
- 18:15 – 19:15 **Exhibition Area. Get together (cocktail reception)**
- 20:00 – 20:45 **Concert – St. John Church (Vrijthof, Maastricht)**

Saturday, May 6th

- 8:30 – 10:00 **Auditorium 2. Can we reduce complication in cardiac arrest patients?**
- Chairs: *Giles Peek (New York, NY) – Alain Vuylsteke (Cambridge, UK)*
- Brain injury and selective brain cooling. *Yih-Sharng Chen (Taiwan, Taipei).*
- Bowel ischemia and sepsis. *Graeme MacLaren (Singapore):*
- Left ventricular and pulmonary stasis: the role of LV unloading
 pro: *Federico Pappalardo (Milan, Italy):*
 cons: *Christof Schmid (Regensburg, Germany)*
- Controversies in ECMO flows: Pulsatile or non-pulsatile flow.
Xiaotong Hou (Beijing, China)
- High or low flow. *Matthias Lubnow (Regensburg, Germany)*
- Panel discussion
- 08:30 – 10:00 **Room A. Pathophysiology issues in VV-ECMO**
- Chairs: *P. Roekaerts (Maastricht, The Netherlands) – A Oude Lansink-Hartgring (Groningen, The Netherlands)*

Ventilator-induced lung injury in ECMO. *Gernot Marx (Aachen, Germany)*

My target for lung-protective mechanical ventilation in ECMO patients.

Antonio Pesenti (Milan, Italy)

Low paO₂ and arterial saturation: how low can we go?

Bob Bartlett (Ann Arbor, Michigan)

Right ventricular dysfunction in ARDS. How to manage it.

Dinis dos Reis iranda (Rotterdam, The Netherlands)

Panel Discussion

08:30 – 10:00

Room B. ECMO in non-cardiac surgery patients

Chairs: *Ehsan Natour (Maastricht, The Netherlands)* – *Steve Conrad (Shreveport, Louisiana)*

ECMO in trauma. *Justyna Swol (Kronach, Germany)*

ECMO and lung transplant: Is ambulatory ECMO the right solution?

Jose Garcia (Boston, Massachussets)

ECMO in trachea surgery. *Do Hyung Kim (Seoul, South Korea) TBD*

ECMO and lung surgery. *Jos Maessen (Maastricht, The Netherlands)*

ECMO and pediatric surgery. *Carl Davis (Glasgow, Scotland)*

Panel Discussion

10:00 – 10:30

Coffee Break

10:30 – 12:00

Auditorium 2. Is it possible to set up a Randomized Controlled Trial in ECMO?

Chairs: *Dan Brodie (NY, NY)* – *Dirk Donker (Utrecht, The Netherlands)*

What did we learn after almost 100 randomized patients? *Jan Belohlavek (Prague, Czech Republic)*

Designing a multicentre study on ECPR. *Thijs Delnoij (Maastricht, The Netherlands)*

A large multicenter study in Asia: the Save II Study.

Shingo Ichiba (Tokyo, Japan)

The importance of well-designed study in cardiac arrest: the CHEER study. *Vincent Pellegrino (Sydney, Australia)*

The SUPERNOVA and EOLIA studies. Is randomizing in respiratory patients easier? *Alain Combes (Paris, France)*

Panel Discussion

10:30 – 12:00

Room A. Post-Cardiotomy ECMO in neonates/children

Chairs: *Dirk Vlasselaers (Leuven, Belgium)* – *Tim Jones (Birmingham, UK)*

Post-cardiotomy ECMO in children: trends and outcome. *Jon Smith (Newcastle, UK)*

What should I do in these situation? Tips and tricks for effective cannulation and ECMO run. *Mike McMullan (Seattle, Washington)*

How long should I wait for heart recovery, of for other therapies?

Heidi Dalton (Falls Church)

Post-cardiotomy ECPR rescue in neonates and children. When to do it?

Bahaaldin Alsoufi (Atlanta, Georgia)

Are new ECMO devices more effective? *Malaika Mendonca (Abu Dhabi, UAE) – Tim Jones (Birmingham, UK)*

Panel Discussion

10:30 – 12:00

Room B. Controversies in VA-ECMO

Chairs: *Matthias Lubnow (Regensburg, Germany) – I-wen Wang (Indianapolis, Indiana)*

Distal Limb perfusion: always, never, sometimes. *Nicholas Cavarocchi (Philadelphia, Pennsylvania)*

ECMO weaning: shunting or not shunting. *Zaheer Babar (Maastricht, The Netherlands)*

ECMO and cytokine adsorption – Rational and clinical experiences. *Karl Träger (Ulm, Germany)*

Dealing with the stunned myocardium in ECMO. *Glenn Whitman (Baltimore)*

Inotropes, vasoconstrictors or no drugs on ECMO? *Fabio Guarracino (Pisa, Italy)*

Panel Discussion

12:00 – 13:00

Auditorium 2. ECMO for respiratory distress

Chairs: *Thomas Mueller (Regensburg, Germany) – Bill Lynch (Ann Arbor, Michigan)*

Single Dual-Lumen Cannulation or Double Cannulation for VV-ECMO? – *Daniel Herr (Baltimore, Maryland)*

Is the awake patient the right solution? - *Jonas Lindholm (Stockholm, Sweden)*

Recent insights in regenerative potentials of lung parenchyma: be patient, and lungs will recover! - *Bob Bartlett (Ann Arbor, Michigan)*

Panel Discussion

12:00 – 13:00

Room A. Monitoring on ECMO. Part 1

Chairs: *Malaika Mendonca (Abu Dhabi, UAE) – Fabio S. Taccone (Bruxelles, Belgium)*

What's new in on-line monitoring. *Mirko Belliato (Pavia, Italy)*

Echocardiography in ECMO. *Dirk Donker (Utrecht, The Netherlands)*

Neuromonitoring and neuroassessment. *Aparna Hoskote (London, UK)*

12:00 – 13:00

Room B. Designing a better ECMO system: clues for the future.

Chairs: *Ludwig von Segesser (Lausanne, Switzerland) – Leen Vercaemst (Leuven, Belgium)*

View of the clinician. *Filip De Somer (Gent, Belgium)*

View of the engineer. *Stefan Breiter (Wuppertal, Germany)*

View of the industry. TBD

Panel Discussion

13:00 – 14:00 **Lunch Sessions**

14:00 – 15:00 **Auditorium 2. VA-ECMO in cardiogenic shock**

Chairs: *Jan Hoorntje (Maastricht, The Netherlands) – Marco Ranucci (Milan, Italy)*

ECMO in AMI-cardiogenic shock patients: a must in the cath lab.

Ivan Chavez (Minneapolis, Minnesota)

The role of ECMO in non-AMI cardiogenic shock. *Pascal Leprince (Paris, France)*

ECMO support for complicated cardiological procedures: an emerging role? *Dierk Endeman (Regensburg, Germany)*

Panel Discussion

14:00 – 15:00 **Room A. Complications in VA-ECMO: how to handle them?**

Chairs: *Gil Bolotin (Haifa, Israel) - Yih-Sharng Chen (Taipei, Taiwan)*

Complications in Cannulation. *Bart Meyns (Leuven, Belgium)*

Neurologic complications in VA-ECMO patients: Giving up?

Nick Barret (London, UK)

The Harlequin Syndrome: are the heart and brain really suffering?

Bjorn Frenckner (Stockholm, Sweden)

Panel Discussion

14:00 – 15:00 **Room B. Simulation in ECMO**

Chairs: Mark Ogino (Philadelphia, Pennsylvania) - Matteo Di Nardo (Rome, Italy) Michael Broome', (Stockholm, Sweden) Cara Agerstrand (New York, NY)

15:00 – 16:00 **Auditorium 2. Complications in VV-ECMO**

Chairs : *Thijs Delnoy (Maastricht, The Netherlands) – Dan Brodie (New York)*

Lung consolidation and prone positioning. *Antonio Pesenti (Milan, Italy)*

How to optimize VV-ECMO and reduce neurologic events.

Ralf Muellenbach (Kassel, Germany)

Are ECMO scores useful to predict outcome in complicated patient?

TBD

Panel Discussion

15:00 – 16:00

Room A. Drug absorption, anticoagulation, and blood management

Chairs: *Heidi Dalton (Falls Church, Virginia) – Suneel Pobooni (Hydrabad, India)*

Pharmacology on ECMO: is the pharmacokinetic known? *Enno Wilschut (Rotterdam, The Netherlands)*

What's new in anticoagulation on ECMO. *Laurence Lequier (Edmonton, Canada)*

Hemolysis on ECMO: predictors and management. *Thomas Muller (Regensburg, Germany)*

Panel Discussion

15:00 – 16:00

Room B. ECMO in pediatric patients: where are we?

Chairs: *Thomas Brogan (Seattle, WA) – Arno van Heijst (Amsterdam, The Netherlands)*

Trends and outcomes in VA-ECMO. *Ravi Thiagarajan (Boston, Massachusetts)*

Trends and outcome in VV-ECMO. *Melania Bembea (Baltimore, Maryland)*

Impact on neurocognitive development: the importance of follow-up. *Hanneke Ijsselstijn (Rotterdam, The Netherlands)*

Panel Discussion

16:00 – 16:30

Coffee Break

16:30 – 17:30

Auditorium 2. Reporting Outcomes and Results in ECMO patients

Chairs: *Bob Bartlett (Ann Arbor, Michigan) – Bart Meyns (Leuven, Belgium)*

ELSO Registry: what's new. *Ryan Barbaro (Ann Arbor, Michigan)*

Should we have just one Registry? Time for Global and Agreed

Nomenclature in ECMO/ECLS: The ICECLE Project – *Steve*

Conrad (Shreveport, Louisiana)

Guidelines on reporting mortality and morbidity in ECMO. *Sandro*

Gelsomino (Maastricht, The Netherlands).

Panel Discussion

16:30 – 17:30

Room A. Monitoring in ECMO. Part 2/Special Considerations

Chairs: *Rodrigo Diaz (Santiago, Chile) - Ibrahim Fawzy (Doha, Qatar)*

Biomarkers on ECMO: how useful are they? *Fabio Taccone*
(Bruxelles, Belgium)
Anticoagulation monitoring. *Gail Annich* (Toronto, Canada)
Hemodynamic monitoring. *Marco Ranucci* (Milan, Italy)

Panel Discussion

16:30 – 17:30

Room B. Risk Management and Prevention in ECMO

Chairs: *Kostanty Szuldrynski* (Cracow, Poland) – *Simon Finney*
(London, UK)

How to report complications and misconduct (“the ideal debriefing”)?
David Cooper (Cincinnati, Ohio)
The ideal ECMO Team: periodical simulation and training programs.
Matteo Di Nardo (Rome, Italy)
The prolonged ECMO support. How to prevent complications.
Leonardo Salazar (Floridablanca, Colombia)

Panel Discussion

17:30 – 18:30

Auditorium 2. Weaning from ECMO

Chairs: *John Fraser* (Brisbane, Australia) – *Igor Kornilov* (Novosibirsk,
Russia Federation)

Which strategy in VV. *Giles Peek* (New York, NY)
Which strategy in VA. *Dominik Hochter* (Munich, Germany)
If Weaning fails and bridge to nowhere.....*Carlo Banfi* (Geneva,
Switzerland)

Panel Discussion

17:30 – 18:30

Room A. ECCO2R

Chairs: *Alain Combes* (Paris, France) – *Vincent Pellegrino* (Sydney,
Australia)

Update on its use. *Dan Brodie* (NY, USA)
Pro: *Alain Combes* (Paris, France)
Cons: *Thomas Mueller* (Regensburg, Germany)

Panel Discussion

17:30 – 18:30

Room B. Post-cardiotomy ECMO in adults: facts, challenges, and new strategies

Chairs: *Wolfgang Bhure* (Maastricht, The Netherlands) – *Michele De Bonis*
(Milan, Italy)

Post-cardiotomy ECMO in adults: the worst results in ECMO? *Pascal*
Leprince (Paris, France)
How late to wait for recovery, and when to switch to other treatment?
Glenn Whitman (Baltimore, Maryland)
Prophylactic ECMO in complex cardiac surgery patients: a new strategy?
Roberto Lorusso (Maastricht, The Netherlands)

Panel Discussion

18:30 – 22:30

Gala Dinner. Chateau Neercanne (Neercanne, Maastricht)

Bus Transportation. Bus will leave from MECC conference centre from 18:30 on – 500 tickets available- reservation required

Sunday, May 7th

08:30 – 09:30

Auditorium 1. ECCO2R

Chairs: Matthew Bacchetta (New York, NY) – Thomas Mueller (Regensburg, Germany)

Peculiar issues for ECMO in war zones. *Eric Osborn (Falls Church, Virginia)*
ECMO Transport. *Dan R. Dirnberger (Wilmington, Delaware)*
Only for soldiers or also for local civilians? A new humanitarian action?
Justyna Swol (Kronach, Germany)

Panel Discussion

09:30 – 10:30

Auditorium 1. Not so common, but emerging indications in ECMO

Chairs: *Gail Annich (Toronto, Canada)* – *Claudio F. Russo (Milan, Italy)*

ECMO in severe infectious illnesses. *Gerry Capatos (Johannersburg, South Africa)*

ECMO in pregnancy. *Kenneth Palmer (Stockholm, Sweden)*

ECMO in intoxication. *Sandeep Dewan (New Delhi, India)*

ECMO in septic shock: new evidences? *Graeme MacLaren (Singapore)*

Panel Discussion

10:30 – 11:00

Coffee Break

11:00 – 12:00

Auditorium 1. What should I do if....

Chairs: *Laurence Lequier (Edmonton, Canada)* – *Nicholas Barret (London, UK)*

.....there are thrombi in the heart ? *Christof Schmid (Regensburg, Germany)*

.....there is severe pulmonary bleeding or severe desaturation on VV-ECMO? *Mikael Broman (Stockholm, Sweden)*

.....in post-cardiotomy ECMO? Central or peripheral? LV vent or no vent? IABP or not? *I-wen Wang (Indianapolis, Illinois)*

12:00 – 12:30

Auditorium 1. Training and simulation in “fast conditions”

12:30 – 13:00

Auditorium 1. Closing remarks

Jos Maessen (Maastricht), Mike McMullan (Seattle), Roberto Lorusso (Maastricht), Jan Belohlavek (Prague)