



EuroELSO 2017 6<sup>th</sup> International Congress ECMO  
4 – 7 May 2017, Maastricht, the Netherlands

## **Pre-Conference Course: "ECMO for Beginners"**

Outline of the Course: basics in VA, VV, and other aspects will be discussed for people who would like to start an ECMO program or have very little experience. Information and knowledge about fundamentals, training, simulation, and how to start a clinical program will be provided. The program is tightly linked with the [Educational Corner](#) for additional hands-on and simulation sessions.

### **Thursday, May 4th**

- |               |  |
|---------------|--|
| 13:00 – 14:00 | ECMO for beginners: very basic principles of physiology and pathophysiology of ECMO<br><i>Bob Bartlett – Nick Barret</i> |
| 14:00 – 15:00 | The ECMO system (cannulas, pump, oxygenator)<br><i>Patrick Weerwind – Leen Vercaemst</i>                                 |
| 15:00 – 15:30 | Coffee Break   |
| 15:30 – 16:30 | The VA-ECMO<br><i>Davide Ghitti - Thomas Mueller</i>   |
| 16:30 – 17:30 | The VV-ECMO<br><i>Thijs Delnoij – Nick Barret</i>  |
| 17:30 – 18:00 | The Hybrid ECMO (VAV – VVA)<br><i>Simon Finney – Leen Vercaemst</i>  |



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**Friday, May 5<sup>th</sup>**

- 08:00 – 09:00 How to prepare the team and the tools  
*Alois Philipp – Leen Vercaemst – Davide Ghitti – Thomas Mueller*
- 09:00 – 10:00 Training and education  
*Mark Ogino – Piero David – Justyna Swol*
- 10:00 – 10:30 Coffee Break
- 10:30 – 11:30 How to face the first clinical series: the importance of reference (ELSO)  
*Mike McMullan – Jim Fortenberry – Heidi Dalton*
- 11:30 – 12:30 How to cope with first failures and complications  
*Nick Barret – Bob Bartlett – Simon Finney – Matteo Pozzi*



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## Pre-Conference Course: "ECPR: how we do it"

Outline of the Course: topics related to cardiac arrest and ECPR will be discussed in very practical aspects, with interaction and skill demonstrations. Two separated programs will be provided for adult and pediatric settings. The program is tightly linked with the [Educational Corner](#) for additional hands-on and simulation sessions.

### Pediatric Path.

#### Thursday - May 4th

- 13:00 – 14:00 Pre-ECLS Considerations (new CPR guidelines, indications for ECPR, how to establish a proper ECPR program and ECLS tools and equipment)  
*Ravi Thiagarajan (Boston) – Peter R. Roeleveld (Leiden) – Laurence Lequier (Edmonton) – Aparna Hoskote (London) – Mirijana Cvetkovic (Leicester)*
- Chair: *Giles Peek (New York)*
- 14:00 – 15:00 Interactive Clinical Scenarios: what to do and what not to do, starting ECLS, deciding VA or VV or hybrid ECMO, where to implant, how to implant, how to manage multidisciplinary tasks in emergency (nurses, perfusionists, intensivists, emergency physicians, surgeons, cardiologists) – **Part 1**  
*Mark Davidson (Glasgow) – Tim Antonius (Nijmegen) – Heidi Dalton (Falls Church) – Kenneth Palmer (Stockholm)*
- Chair: *Mike McMullan (Seattle)*
- 15:00 – 15:30 Coffee Break
- 15:30 – 16:30 Interactive Clinical Scenarios: what to do and what not to do, starting ECLS, deciding VA or VV or hybrid ECMO, where to implant, how to implant, how to manage multidisciplinary tasks in emergency (nurses, perfusionists, intensivists, emergency physicians, surgeons, cardiologists) – **Part 2**  
*Mark Davidson (Glasgow) – Tim Antonius (Nijmegen) – David Cooper (Cincinnati) – Tom Brogan (Seattle) – Chris Harvey (Leicester)*
- Chair: *Carl Davis (Glasgow)*
- 16:30 – 18:00 Skill Demonstration (cannulation technique, troubleshooting, simulation, training) – **Part 1**  
*Giles Peek (New York) – Carl Davis (Glasgow) – Mike McMullan (Seattle) – Bjorn Frenckner (Stockholm) – Piero David (Rome) – Tim Antonius (Nijmegen)*



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Chair: *James Fortenberry (Atlanta)*

### **Friday – May 5th**

8:00 – 9:00 Post-ECPR management (hypothermia, reperfusion injury, diagnostics neuromonitoring, prognostication) – **Part 1**  
*Peter P. Roeleveld (Leiden) – Aparna Hoskote (London) – Piero David (Rome) – Kenneth Palmer (Stockholm)*

Chair: *Ravi Thiagarajan (Boston)*

9:00 – 10:00 Post-ECPR management (hypothermia, reperfusion injury, diagnostics, neuromonitoring, prognostication) – **Part 2**  
*Piero David (Rome) – Aparna Hoskote (London) – Mirjana Cvetkovic (Leicester) – Kenneth Palmer (Stockholm)*

Chair: *Hanneke IJsselstijn (Rotterdam)*

10:00 – 10:30 Coffee Break

10:30 – 11:30 In-Hospital Cardiac Arrest Organization – Outcome and Post-Discharge  
Follow-up Management  
*Ravi Thiagarajan (Boston) - Bahaaldin Alsoufi (Atlanta) – Tom Brogan (Seattle) - Hanneke IJsselstijn (Rotterdam)*

Chair: *Aparna Hoskote (London)*

11:30 – 12:30 Skill Demonstration (cannulation technique, troubleshooting, simulation,  
training) – **Part 2**  
*Giles Peek (New York) – Mike McMullan (Seattle) – Carl Davis (Glasgow) – Bjorn Frenckner (Stockholm) – Chris Harvey (Leicester) - Tim Antonius (Nijmegen)*

Chair: *Heidi Dalton (Falls Church)*

### **Adult Path.**

### **Thursday - May 4th**

13:00 – 14:00 Pre-ECLS Considerations (new CPR guidelines, indications for ECPR, how to establish a proper ECPR program and ECLS tools and equipment)



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*Mirko Belliato (Pavia, Italy) – Dirk Lunz (Regensburg, Germany) – Alain Combes (Paris) – Fridhelm Beyersdorf (Freiburg) – Alois Philipp (Regensburg) – Yhi-Sharng Chen (Taipei)*

Chair: *Roberto Lorusso (Maastricht)*

14:00 – 15:00

Interactive Clinical Scenarios: what to do and what not to do, starting ECLS, deciding VA or VV or hybrid ECMO, where to implant, how to implant, how to manage multidisciplinary tasks in emergency (nurses, perfusionists, intensivists, emergency physicians, surgeons, cardiologists) – **Part 1**  
*Jan Belohlavek (Prague) – Alois Philipp – Shingo Ichiba (Tokyo) – Vincent Pellegrino (Melbourne) – Nicholas Cavarocchi (Philadelphia)*

Chair: *Thomas Mueller (Regensburg)*

15:00 – 15:30

Coffee Break

15:30 – 16:30

Interactive Clinical Scenarios: what to do and what not to do, starting ECLS, deciding VA or VV or hybrid ECMO, where to implant, how to implant, how to manage multidisciplinary tasks in emergency (nurses, perfusionists, intensivists, emergency physicians, surgeons, cardiologists) – **Part 2**  
*Jan Belohlavek (Prague) – Alois Philipp – Nurse – Shingo Ichiba (Tokyo) – Vincent Pellegrino (Melbourne) – Nicholas Cavarocchi (Philadelphia)*

Chair: *Alain Combes (Paris)*

16:30 – 18:00

Skill Demonstration (cannulation technique, troubleshooting, simulation, training)

*Justyna Swol (Kronach) – Matteo Pozzi (Lyon) – Jan Belohlavek (Prague) – Steve Conrad (Shreport) – Nicholas Cavarocchi (Philadelphia) – Carlo Banfi (Geneva) – Ludwig von Segesser (Lausanne)*

Chair: *Roberto Lorusso*



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### **Friday – May 5th**

- 8:00 – 9:00 Post-ECPR management (hypothermia, reperfusion injury, diagnostics, neuromonitoring, prognostication) – **Part 1**  
*Fabio Silvio Taccone (Bruxelles) – Vincent Pellegrino (Melbourne) – Shingo Ichiba (Tokyo) – Dirk Lunz (Regensburg)*
- Chair: *Graeme MacLaren (Singapore)*
- 09:00 – 10:00 Post-ECPR management (hypothermia, reperfusion injury, diagnostics, neuromonitoring, prognostication) – **Part 2**  
*Georg Trummer (Freiburg, Germany) – Dirk Donker (Utrecht) – Thijs Delnoij (Maastricht) – Federico Pappalardo (Milan) – Thomas Mueller (Regensburg)*
- Chair: *Jan Belohlavek (Prague)*
- 10:00 – 10:30 Coffee Break
- 10:30 – 11:30 **In-Hospital Cardiac Arrest:** Organization, Outcome, and Post-Discharge Follow-up Management  
*Fridhelm Beyersdorf (Freiburg, Germany) – Alois Philipp (Regensburg, Germany) – Alain Combes (Paris, France) – Mirko Belliato (Pavia, Italy) – Yhi-Sharng Chen (Taipei) – Dinis Dos Reis Miranda (Rotterdam)*
- Chair: *Thomas Mueller (Regensburg)*
- 11:30 – 12:30 **Out-of-Hospital Cardiac Arrest:** Organization, Reality, and Controversies  
*Fridhelm Beyersdorf (Freiburg, Germany) – Alois Philipp (Regensburg, Germany) – Alain Combes (Paris, France) – Mirko Belliato (Pavia, Italy) – Yhi-Sharng Chen (Taipei) – Dinis Dos Reis Miranda (Rotterdam)*
- Chair: *Federico Pappalardo (Milan)*



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## Pre Congress Nursing ECMO Course

Thursday – May 4 <sup>th</sup>			Pre Congress Nursing ECMO Course	
Time	Speaker		Topic	Proposed content
13.00 – 13.15	<i>Roberto Lorusso Margaret Farley Mike Mc Mullan</i>		Welcome to Euro ELSO and the Inaugural Meeting of the Nursing Forum	
13.15 – 13.30	<i>Dirk Donker Maastricht</i>	ECMO Cardiologist Utrecht University Medical Centre	Indications for VA and VV in Paeds /adults for ECLS/ECMO	
13.30 - 13.40			Questions and Answers Open to the audience	
13.45 - 14.00	<i>Ann Alexanderson</i>	ECMO Specialist Nurse Karolinska University Hospital Sweden <a href="mailto:ann.alexanderson@karolinska.se">ann.alexanderson@karolinska.se</a>	The impact of ECMO on patient physiology	Summary of VV VA and how they differ
14.00 - 14.10			Q and A	
14.10 - 14.25	<i>Jacqueline Janssen</i>	Intensive Care Nurse  University Medical Center, Utrecht  <a href="mailto:jjansse4@umcutrecht.nl">jjansse4@umcutrecht.nl</a>	Review of how the role of the ECLS nurse varies throughout Europe.	To give nurses an understanding of how their role varies throughout Europe. Followed by a focus on the role as seen in the majority of UK centres
14.25 - 14.35			Q and A	
14.35 – 14.50	<i>Jo-Anne Fowles</i>	Lead ECMO Nurse Papworth Hospital Cambridge <a href="mailto:jo-anne.fowles@nhs.net">jo-anne.fowles@nhs.net</a>	Getting the basics right	Ensuring that even though we are working with a technology dependent patient the importance of re focussing on the basics nutrition, fluid balance , skin integrity
14.50 – 15.00			Q and A	
15.00 - 15.30	COFFEE BREAK			



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15.30-15.45	<i>Michael Heard</i>	Intensive Care Unit Maastricht University Medical Centre – Maastricht, The Netherlands	Routine ECLS circuit and patient monitoring	
15.45- 15.55			Q and A	
15.55 - 16.10	<i>Bianca Osborne - Ricketts</i>	Advanced Nurse Practitioner (ANP) PICU, Birmingham Children's Hospital <a href="mailto:Bianca.osborne.ricketts@bch.nhs.uk">Bianca.osborne.ricketts@bch.nhs.uk</a>	Supporting and updating the family. Ethical challenges	
16.10-16.15			Q and A	
16.15-16.30	<i>Halbe Maximilian</i>	Perfusionist , University Hospital ,Zurich <a href="mailto:Maximilian.Halbe@usz.ch">Maximilian.Halbe@usz.ch</a>	Trouble shooting the circuit	Highlight the management of the big bad risks
16.30 – 16.35			Q and A	
16.35 – 16.50			Anti-coagulation	Strategies that are routinely used for anticoagulation .How to define and manage both bleeding and the formation of circuit clots
16.50 – 16.55			Q and A	
16.55 - 17.10	<i>Kath Daly</i>	Lead Nurse for adult ECMO Guys and St Thomas's, London <a href="mailto:Kathleen.Daly@gstt.nhs.uk">Kathleen.Daly@gstt.nhs.uk</a>	Growing and developing your specialist nurse team	Team selection, size updates
17.10-17.20			Q and A	
17.20 – 17.35	<i>Ann Alexanderson</i>	ECMO Specialist Nurse	Moving the ECMO patient within	Who should be involved and how





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		Karolinska University Hospital Sweden <a href="mailto:ann.alexanderson@karolinska.se">ann.alexanderson@karolinska.se</a>	the hospital	it should be planned . Managing the risk
17.35 – 17.55			Q and A	
17.55 – 18.10	<i>Aparna Hoskote</i>	Cardiac Intensive Care and ECMO, Institute of Child Health, Great Ormond Street Hospital, London, UK  <a href="mailto:Aparna.Hoskote@gosh.nhs.uk">Aparna.Hoskote@gosh.nhs.uk</a>	Neuro- monitoring and assessment	
18.10 - 18.10			Q and A	
18.10-18.25	<i>Cherine Mossadegh</i>	ICU Nurse La Pitie'-Salpetriere Hospital – Paris, France  <a href="mailto:cmossadegh@yahoo.fr">cmossadegh@yahoo.fr</a>	Managing the awake patient .The difference between adult and paediatrics	When to keep them quiet and when they benefit from being awake
18.25-18.35			Q and A	
<b>Friday - 5<sup>th</sup> May 2017</b> <span style="float: right;"><b>Day 2</b></span>				
08.00 - 08.15	<i>Cherine Mossadegh</i>	ICU Nurse La Pitie'-Salpetriere Hospital – Paris, France  <a href="mailto:cmossadegh@yahoo.fr">cmossadegh@yahoo.fr</a>	Simulation as part of your training strategy	
08.15 - 08.25			Q and A	
08.25 - 08.40	<i>Maggie Hickey</i>	ECMO coordinator Gelnfield Hospital UK <a href="mailto:maggie.hickey@uhl-tr.nhs.uk">maggie.hickey@uhl-tr.nhs.uk</a>	Add on extracorporeal circuits and how to manage the challenges	CRRT, plasma exchange
08.40-08.50			Q and A	



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09.00-09.20	<i>Dirk Donker</i>	ECMO Cardiologist Utrecht University Medical Centre ?? email address	ECPR – who should have it ? All or none ?	
09.20-09.30			Q and A	
09.30-09.45	<i>Charlie Beetham</i>	ECMO Specialist Pediatric Intensive Care Unit Children's Hospital Bambino Gesù Rome charlie.beetham@opbg.net	When and how to wean VA	
09.45 – 09.55			Q and A	
10.00-10.30		Coffee		
10.30 – 10.45	<i>Charlei Beetham</i>	ECMO Specialist Pediatric Intensive Care Unit Children's Hospital Bambino Gesù Rome charlie.beetham@opbg.net	When and how to wean VV	
			Q and A	
10.45 – 11.00	<i>Gillian Wylie</i>	ECMO coordinator Royal Hospital for Children Glasgow Scotland  Gillian.Wylie@ggc.scot.nhs.uk	Review of ventilation strategies- too much or too little	Reviewing a range of respiratory and cardiac diagnosis and why the ventilation strategy needs to vary
11.00 - 11.10			Q and A	
11.10-11.25	<i>Dirk Donker</i>	ECMO Cardiologist Utrecht University Medical Centre  ?? email address	VV/VA/V-VA- What is it all about	
11.25-11.35			Q and A	



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11.35-11.50	<i>Margaret Farley</i>	ECLS coordinator Euro ELSO Nurse at Large PICU Birmingham Children's Hospital, UK  Margaret.farley@bch.nhs.uk	ELSO - how does it benefit my patient	Where it started , development of Chapters, membership and benefits for both centres, individuals and patients
11.50-12.00			Q and A	



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## Annual Conference

Friday – May 5<sup>th</sup>

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 Heards - ELSO)

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 ECPR 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 Maximilian Halbe (Zurich, Switzerland)(tbc)  
Are cannulas really improving? Joseph Zwischenberger (Lexington, Kentucky)  
The ideal oxygenator: the actual facts and the dream. Philip De Somer (Gent, Belgium)



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Panel Discussion

18:15–19:15 **Get together (cocktail reception). Exhibition Area**  
**Presentation of the 5<sup>th</sup> Edition of the ELSO "Red Book"**

20:00–20:45 **Concert – St. John Church (Vrijthof, Maastricht)**

Saturday, May 6<sup>th</sup>

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)

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)

Post-cardiac arrest ECMO patient management: a new science for improvement? Graeme MacLaren (Singapore)

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 paO<sub>2</sub> 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 Miranda (Rotterdam, The Netherlands)

Panel Discussion

08:30–10:00 **Room B. ECMO in non-cardio-vascular disease 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, Massachusetts)

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

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



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The role of perfusionist in a multidisciplinary and an outside-cardiac surgery world. Leen Vercaemst (Leuven, Belgium)  
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)

A roadmap for improving the results on postcardiotomy ECMO in children: Malaika Mendonca (Abu Dhabi, UAE)

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 Harlequin Syndrome: When and how to act. 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)



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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. Claudius Diez (Getinge Group)

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



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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, NY)  
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? Matthieu Schmidt (Paris, France)  
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





EuroELSO 2017 6<sup>th</sup> International Congress ECMO  
4 – 7 May 2017, Maastricht, the Netherlands

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: Nicholas Cavarocchi (Philadelphia, Pennsylvania) – 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, how to manage the bridge to...? 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, NY)  
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)  
ECMO Configuration: Central/Peripheral, Venting/No Venting? Glenn Whitman (Baltimore, Maryland)  
Prophylactic and minimally invasive ECMO in complex cardiac surgery patients: a new strategy? Roberto Lorusso (Maastricht, The Netherlands)  
Panel Discussion



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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 7<sup>th</sup>

08:30–09:30 **Auditorium 1. ECMO in War Zones**

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-cardiac arrest ECMO? 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)