Walking together

Final program
Congress organization and organizer of the exhibition and the sponsoring

**INTERPLAN**
Congress, Meeting & Event Management AG
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Organizer of the scientific conference

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Newcaste Upon Tyne NE1 1 LE, UK
E-mail: euroelso2019@interplan.de

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Declaration of consent can be retracted at any time by sending a message to Interplan AG, Landsberger Strasse 155, 80687 München, euroelso2019@interplan.de
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Dear colleagues and friends,

It is my great pleasure to welcome you to our 8th EuroELSO Congress in Barcelona, Spain.

The EuroELSO scientific committee has prepared a program covering all aspects of extracorporeal life support therapies. Intensivists, cardiologists, cardiac surgeons, pediatric and neonatology specialists, perfusionists and ICU nurses will gather to share their clinical experience and discuss new technologies and new directions in research. All participants will have a broad opportunity to discuss the impact of new technologies on health care systems and new directions in research.

Preconference sessions will feature in depth discussions on neonatal and pediatric ECMO. Simulation workshops will also be available, including a wet-lab for cannulation in live animals.

The main congress will provide several core parallel educational tracks focused on adult, pediatric and perfusion/nursing topics related to extracorporeal therapies.

Enjoy the meeting, present your experiences, ask your questions, and be a part of the fantastic ECMO community!

Welcome to the beautiful city of Barcelona for EuroELSO 2019!

Alain Combes
President of EuroELSO

Committees

President
Alain Combes, Paris, France

Past President
Roberto Lorusso, Maastricht, Netherlands

Members Steering Committee
Nicholas Barrett, London, United Kingdom
Jan Bělohlávek, Prague, Czech Republic
Matteo Di Nardo, Rome, Italy
Margaret Farley, Birmingham, United Kingdom
Simon Finney, London, United Kingdom
Bjorn Frenckner, Stockholm, Sweden
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Justyna Swol, Nuremberg, Germany
Leen Vercaemst, Leuven, Belgium

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Deputy Chair: Aparna Hoskote, United Kingdom
Martin Balík, Czech Republic
Lars Mikael Broman, Sweden
Antonella Degani, Italy
Dirk Donker, D.W., Netherlands
Aparna Hoskote, United Kingdom
Christian Karagiannidis, Germany
Chirine Mossadegh, France
Peter Schellongowski, Austria
Matthieu Schmidt, France

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Jordi Riera, Barcelona, Spain
Joan Balcells, Barcelona, Spain
Elena Sandovai, Barcelona, Spain
Teresa Mata, Barcelona, Spain
Susana Segura-Matute, Barcelona, Spain
Santiago Montero, Barcelona, Spain
Cosme García-García, Barcelona, Spain
Albert Ariza-Solé, Barcelona, Spain
Maria Ángeles Castel, Barcelona, Spain
Floor Plan

PALAU DE CONGRESSOS DE BARCELONA

ROOM 7
ART meets ECMO
ROOM 5
ROOM 3
ROOMS 1 and 2

ROOM 8
ROOM 6
LEVEL 2

ROOM 4
VIP AREA
LEVEL 1

Speakers' Review Room

LEVEL 0
ENTRANCE HALL

Registration counter

© Jordi Tullés
### Scientific Program Overview

**Pre-Congress | Wednesday, 10 April 2019**

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<tr>
<th>Time</th>
<th>Auditorium</th>
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<td>13:00</td>
<td>My first steps with VA-ECMO</td>
<td>Back to basics: Physiology</td>
<td>ECMO physiology - Simulation for nurses in Spanish language I</td>
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<td>14:00</td>
<td>My first steps with VV-ECMO</td>
<td>Challenges in cannulation</td>
<td>ECMO physiology - Simulation for nurses in Spanish language II</td>
<td>Neonatal and pediatric Respiratory Failure Management: From non invasive mechanical ventilation to ECMO (Not included in the Pre-Congress registration)</td>
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<td>Coffee break</td>
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<td>15:30</td>
<td>E-CPR - the basics</td>
<td>Re-thinking coagulation and monitoring - the devil is in the detail</td>
<td>ECMO physiology - Simulation for nurses in Spanish language III</td>
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<td>16:30</td>
<td>Promising monitoring tools on ECMO</td>
<td>Quality improvement on ECMO: Doing it right!</td>
<td>ECMO physiology - Simulation for nurses in Spanish language IV</td>
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- **Plenary Sessions**
- **Adult Sessions**
- **Pediatric Sessions**
- **Nurses**
- **Ceremony**
- **Perfusionists**
- **Industry**
- **Poster Sessions**
- **Educational Corners**
- **Social Event**
- **Teach Program**
- **Lab Sessions**
## Scientific Program Overview

### Pre-Congress | Thursday, 11 April 2019

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<td>VA ECMO – the basics of clinical management</td>
<td>Cardiac ECMO</td>
<td>VV-ECMO for beginners</td>
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<td>Improving outcome on VV-ECMO</td>
<td>Neurological complications on ECMO</td>
<td>VA-ECMO for beginners</td>
<td>“Hands on” during mechanical ventilation and ECMO (Not included in the Pre-Congress registration)</td>
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<td>11:00</td>
<td>Acute respiratory failure in specific populations</td>
<td>How to approach complex referrals? When to say no?</td>
<td>Beyond two cannulas...</td>
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### Main Program | Thursday, 11 April 2019

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<td>Opening Ceremony</td>
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<td>ECMO for ARDS</td>
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<td>ECMO for cardiogenic shock</td>
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<td>ECMO for refractory cardiac arrest</td>
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<td>Moderated Poster Session</td>
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<td>Networking Reception</td>
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## Scientific Program Overview

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<td>Call for pediatrics cases</td>
<td>Industry Sponsored Symposium</td>
<td>The role of the perfusionist in ICU</td>
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<td>Cardiogenic shock after acute myocardial infarction</td>
<td>Mechanical ventilation on ECMO</td>
<td>State of the art: ECMO: Where are we now?</td>
<td>When ECMO is not enough</td>
<td>ECLS in OHCA and IHCA</td>
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<td>Medical symptoms</td>
<td>ECLS in OHCA and IHCA</td>
<td>Physiology of the ECMO</td>
<td>ECLS in OHCA and IHCA</td>
<td>The Thrills and Spills of delivering haemofiltration and plasma exchange...</td>
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<td>Ethic in ECMO</td>
<td>VA ECMO – after cardiac surgery</td>
<td>ECMO for myocardial failure</td>
<td>ECMO complications: Interactive session</td>
<td>Physics of the ECMO</td>
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<td>Physiology of the ECMO</td>
<td>ECLS in OHCA and IHCA</td>
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<td>VV-ECMO: Future challenges</td>
<td>Adjuvant cardiac mechanical support</td>
<td>Pediatric respiratory ECMO</td>
<td>We need nurses ECMO specialist -Pro/Con</td>
<td>Latest from the lab...</td>
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<td>Improving outcome on VA-ECMO</td>
<td>Neurological complications on ECMO</td>
<td>Multidisciplinary education on ECMO</td>
<td>Ethic in ECMO</td>
<td>How to reduce ECMO-induced inflammation?</td>
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<td>Physiology of the ECMO</td>
<td>ECLS in OHCA and IHCA</td>
<td>The Thrills and Spills of delivering haemofiltration and plasma exchange...</td>
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<td>ECMO - challenging indications</td>
<td>VA-ECMO drawback</td>
<td>ECMO organization and care delivery</td>
<td>Bedside care</td>
<td>From computation of flow dynamics to the animal lab</td>
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<td>ECMO for hematological patients</td>
<td>Coagulation on ECMO</td>
<td>Mobile ECMO</td>
<td>Staffing models</td>
<td>VA ECMO and LV distension</td>
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<td>Physiology of the ECMO</td>
<td>ECLS in OHCA and IHCA</td>
<td>The Thrills and Spills of delivering haemofiltration and plasma exchange...</td>
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<td>Congress Dinner at Xalet de Montjuic. Tickets are available at the registration counter on a first come - first served basis.</td>
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# Scientific Program Overview

## Main Program | Saturday, 13 April 2019

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<th>Room 7 Educational Corner</th>
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<tr>
<td>08:00</td>
<td>Industry Sponsored Symposium</td>
<td>Complications on ECMO - let’s focus on anticipation and prevention</td>
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<td>09:00</td>
<td>ECCO2R in 2019</td>
<td>What it takes on top of technical skills - ethical decision making!</td>
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<td>The Thrills and Spills of delivering haemofiltration and plasma exchange...</td>
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<td>Cardiac ECMO</td>
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<td>Anticoagulation on ECMO</td>
<td>The top ranked adults abstract selection</td>
<td>The top ranked PED abstract selection</td>
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<td>The Thrills and Spills of delivering haemofiltration and plasma exchange...</td>
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<td>Additional procedures on ECMO</td>
<td>ECMO - in exceptional situations</td>
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<td>12:00</td>
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<td>Closing Ceremony, Young Investigator Awards and invitation next edition</td>
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**Key:***
- Plenary Sessions
- Adult Sessions
- Pediatric Sessions
- Nurses
- Ceremony
- Perfusionists
- Industry
- Poster Sessions
- Educational Corners
- Social Event
- Teach Program
- Lab Sessions
Neonatal and pediatric Respiratory Failure Management: From non invasive mechanical ventilation to ECMO (Not included in the Pre-Congress registration)
Moderation: Matteo Di Nardo, Italy

For workshop details please check the website at www.euroelso-congress.com/euroelso-espnic-initiative

13:00 - 14:00
Educational Corner program, please see details at page 29

My first steps with VA-ECMO
Moderation: Martin Balik, Czech Republic

When and for whom?
Jan Bělohlávek, Czech Republic

Which cannula? Which site?
Felix Hennig, Germany

How to manage bleeding issues?
Thomas Staudinger, Austria

13:00 - 14:00
Room 6

My first steps with VV-ECMO
Moderation: Peter Schellongowski, Austria

Oxygenation and decarboxylation determinants
Christian Karagiannidis, Germany

Indications and patients selection
Jordi Riera, Spain

My patients remains hypoxemic on ECMO - diagnostic approach
Matthieu Schmidt, France

14:00 - 15:00
Room 5

Challenges in cannulation
Moderation: Robert Bartlett, United States; Aparna Hoskote, United Kingdom

VV-ECMO cannulation in neonates
Carl Davis, United Kingdom

Cannulation configurations across different weight ranges
Chris Harvey, United Kingdom

Bedside echo for ECMO decision making
Lars Mikael Broman, Sweden

15:00 - 15:30
Coffee break

15:30 - 16:30
Educational Corner program, please see details at page 29

15:30 - 16:30
Room 6

E-CPR – the basics
Moderation: Jan Bělohlávek, Czech Republic

The ideal patient: Think twice to get the indication right!
Kiran Shekar, Australia

The best organization: Refined logistics and cannulation techniques
Simon Finney, United Kingdom

Brain death and organ donation on ECMO
Nicholas Barrett, United Kingdom
15:30 - 16:30
Room 5

Re-thinking coagulation and monitoring - the devil is in the detail
Moderation: Nathalie Rintoul, United States; Lakshmi Raman, United States

Anticoagulation: Age-related physiological variation
Gail Annich, Canada

Laboratory versus point of care testing - best practice?
Joan Balcells, Spain

New agents to prevent thrombosis or bleeding
Uri Pollak, Israel

16:30 - 17:30
Educational Corner program, please see details at page 29

16:30 - 17:30
Room 6

Promising monitoring tools on ECMO
Moderation: Matthieu Schmidt, France

TEG/ROTEG
Albert Ariza, Spain

Microcirculation
Dinis Reis Miranda, Netherlands

Thoracic imaging
Roberto Roncon-Albuquerque, Portugal

16:30 - 17:30
Room 5

Quality improvement on ECMO: Doing it right!
Moderation: Susana Segura, Spain; Joanne Starr, United States

Surveillance and treatment of infection on ECMO
Pierre-Louis Leger, France

Nutrition on ECMO
Maura O’Callaghan, United Kingdom

Sedation on ECMO
Pavla Pokorna, Czech Republic
Pre-Congress | Thursday, 11 April 2019

08:30 - 09:30
Room 6

**VA ECMO – the basics of clinical management**
Moderation: Dinis Reis Miranda, Netherlands

**Bedside monitoring:**
The clinical key parameters in VA ECMO
Alessandro Sionis, Spain

**Echocardiography in VA ECMO:**
Much more than a daily ritual
Dirk Donker, Netherlands

**Anticoagulation for VA ECMO in cardiovascular disease:**
Complexity made simple
Jonathan Millar, Ireland

08:30 - 09:30
Room 5

**Cardiac ECMO**
Moderation: Mirjana Cvetkovic, United Kingdom; Sylvia Belda, Spain

**Myocarditis and ECMO**
Jonathan Smith, United Kingdom

**ECMO in single ventricle patients**
Tim Jones, United Kingdom

**Role of cardiac catheterization on ECMO**
Aparna Hoskote, United Kingdom

08:30 - 09:30
Room 3

**VV-ECMO for beginners**
(Translation to Spanish provided)
Moderation: Sabine Valera, France

**Cannulation and site**
Jordi Riera, Spain

**Indications and results**
Alain Vuylsteke, United Kingdom

**Nursing monitoring and tips**
Chirine Mossadegh, France

**Nursing monitoring and tips in children**
Maura O’Callaghan, United Kingdom

08:30 - 09:30
Room 4

“Hands on” during mechanical ventilation and ECMO (Not included in the Pre-Congress registration)
Moderation: Matteo Di Nardo, Italy; Joan Balcells, Spain

For workshop details please check the website at www.euroelso-congress.com/euroelso-espnic-initiative

09:30 - 10:30
Room 6

**Improving outcome on VV-ECMO**
Moderation: Nicholas Barrett, United Kingdom

**Mobile inter-hospital transport**
Lars Mikael Broman, Sweden

**Right ventricular failure management**
Kenneth Palmer, Sweden

**Drugs pharmacokinetics on ECMO**
Nicholas Barrett, United Kingdom

09:30 - 10:30
Room 5

**Neurological complications on ECMO**
Moderation: Chris Harvey, United Kingdom; Uri Pollak, Israel

**Incidence and risk factors**
Francisco Abecasis, Portugal

**Neuromonitoring: Cerebral autoregulation**
Lakshmi Raman, United States

**Engaging family in follow-up:**
Parental perceptions
Jo Wray, United Kingdom

09:30 - 10:30
Room 3

**VA-ECMO for beginners**
(Translation to Spanish provided)
Moderation: Jo-Anne Fowles, United Kingdom

**The basic principles**
Konstanty Szuldrzynski, Poland

**Indications and timing**
Alain Combes, France

**Main complications**
Alicia Pastor, Spain

session color codes: please see page 9
Pre-Congress | Thursday, 11 April 2019

10:30 - 11:00
Coffee break

11:00 - 12:00
Room 6

**Acute respiratory failure in specific populations**
Moderation: Christian Karagiannidis, Germany

**Which population for ECCO2R?**
Christian Karagiannidis, Germany

**ECMO for immunocompromised patients**
Peter Schellongowski, Austria

**ECMO in obese patients**
Antonio Arcadipane, Italy

11:00 - 12:00
Room 5

**How to approach complex referrals? When to say no?**
Moderation: Gail Annich, Canada; Lars Mikael Broman, Sweden

**Multi-morbidity syndromic patient**
Nathalie Rintoul, United States

**Post liver transplant, bone marrow transplant**
Matteo Di Nardo, Italy

**When to say no: Overwhelming sepsis**
Thomas Brogan, United States

11:00 - 12:00
Room 3

**Beyond two cannulas...**
(Translation to Spanish provided)
Moderation: Chirine Mossadegh, France

**RRT during ECMO: Practical aspects**
Justyna Swol, Germany

**Plasmapheresis on ECMO**
Jo-Anne Fowles, United Kingdom

**Infection prevention and diagnosis strategies**
Sabine Valera, France
Main Program | Thursday, 11 April 2019

**From 12:15**
Industry symposium and workshop, please see page 43 for further details

**13:45 - 14:15**
Auditorium
Opening Ceremony
Welcome note by the President of the EuroELSO Alain Combes
Welcome note by the President elect of the EuroELSO
Welcome note by the Local Organizing Committee

**14:15 - 15:45**
ECMO for ARDS
Moderation: Thomas Mueller, Germany; Marco Ranieri, Italy

VV-ECMO in adults and pediatrics: Year in review
Simon Finney, United Kingdom

EOLIA: What do we learn with bayesian analysis?
Alain Combes, France

What should be the next trial(s)?
Daniel Brodie, United States

Integrating physiology and imaging at the bedside
Antonio Pesenti, Italy

My vision for ECMO in ARDS in 2050?
Giles Peek, United States

15:45 - 16:15
Coffee break in the exhibition area

**16:15 - 17:15**
Auditorium
ECMO for cardiogenic shock
Moderation: Albert Ariza, Spain; Roberto Lorusso, Netherlands

VA-ECMO in adults and pediatrics: Year in review
Thomas Mueller, Germany

How to choose the best device in the context of AMI?
Tony Gershlick, United Kingdom

Why do we need RCT in cardiogenic shock?
Alain Combes, France

**17:15 - 18:15**
Auditorium
ECMO for refractory cardiac arrest
Moderation: Alain Vuylsteke, United Kingdom; Thomas Brogan, United States

The latest about in-hospital cardiac arrest
Yih-Sharng Chen, Taiwan

Pro/Con: The optimal site for E-CPR in OHCA is... in the hospital
Jan Bělohlávek, Czech Republic

Pro/Con: The optimal site for E-CPR in OHCA is... on the scene
Lionel Lamhaut, France

**18:15 - 19:15**
Poster Exhibition
Moderated Poster Sessions

**OP-01**
Adult Moderated Abstract Session Kiosk 1
Moderation: Jan Bělohlávek, Czech Republic; Brijesh Patel, United Kingdom

ECMO accidental decannulation
Sara Escalona-Rodriguez, Spain

Veno-arterial extracorporeal membrane oxygenation in post myocardial infarction ventricular septal rupture: A systematic review
Federica Jiritano, Netherlands

Five-year outcomes in ECMO patients
Nathalie Van Aerde, Belgium

Undetectable arterial systemic air embolism during VA ECMO, it could be a silent killer?
Immacolata Romeo, Italy

Left ventricular unloading strategies during ECLS and their association with mortality, a systematic review and meta-analysis
Christiaan Lucas Meuwese, Netherlands

Regional cerebral oxygen saturation associates with outcome during veno-arterial extracorporeal membrane oxygenation
Ana Delgado, United Kingdom

The global perspective of an organ donation program following Maastricht II uncontrolled cardiocirculatory death: Fifteen month experience from an ECMO referral centre
Gustavo Nobre de Jesus, Portugal
Main Program | Thursday, 11 April 2019

**Incidence and outcome of patients developing HIT during extracorporeal membrane oxygenation**  
Matthias Lubnow, Germany

**Predictors of mortality in patients with streptococcal infection requiring extra-corporeal membrane oxygenation support**  
Shraddha Goyal, United Kingdom

**A single centre experience of a shock call system to support multidisciplinary decision making in cardiogenic shock**  
Cidalia Eusebio, United Kingdom

**Initial device implant for patients with INTERMACS profiles 1 and 2**  
Natallia Piatrovich, Belarus

**Awake patient, switch from ECMO to VAD circuit on continuous pump flow**  
Ignazio Condello, Italy

**Advanced mechanical circulatory support for post-cardiotomy cardiogenic shock: A five years outcome analysis**  
Paola Sastre, Spain

**ECMO vs IABP in high risk percutaneous coronary interventions**  
Roman Kornelyuk, Russian Federation

**Temporal trends of extracorporeal life support for postcardiotomy cardiogenic shock**  
Matteo Pozzi, France

**Extracorporeal membrane oxygenation in pregnancy: Survival and predictors of mortality**  
Kollengode Ramanathan, Singapore

**The clinical outcomes of VA ECMO for patients with AMI complicated by cardiac arrest due to left main coronary artery occlusion**  
Sung Jun Kim, South Korea

**Predictors of successful weaning from veno-arterial extracorporeal membrane oxygenation support**  
Ju Yong Lim, South Korea

**Neurological complications in adult ECMO patients - the experience of an Australian ECMO referral center**  
Jason Chapman, Australia

**Meta-analysis to assess in-hospital and remote outcomes after ECMO implantation for refractory cardiogenic shock in heart transplantation centres as compared to non-transplant units**  
Mariusz Kowalewski, Poland

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**OP-02**  
**Adult Moderated Abstract Session Kiosk 2**  
Moderation: Simon Finney, United Kingdom; Alain Combes, France

**Extracorporeal membrane oxygenation for refractory anaphylactic shock: A case series report**  
Dai Quang Huynh, Vietnam

**Hybrid ECMO is one of the strategies for patients with inadequate perfusion and high mortality**  
Kensuke Fujita, Japan

**Implementation of a 24/7 extracorporeal life support service in a tertiary medical intensive care unit in the German capital**  
Bettina Otte, Germany

**Anti-factor Xa assay correlates positively with Heparin dose in adult venoarterial extracorporeal membrane oxygenation**  
Yongnan Li, China

**Extracorporeal membrane oxygenation and/or impella for cardiogenic shock: A systematic review and meta-analysis**  
Yongnan Li, China

**OP-03**  
**Adult Moderated Abstract Session Kiosk 3**  
Moderation: Dirk Donker, Netherlands; Santiago Montero, Spain

**Temporal trends of extracorporeal life support for postcardiotomy cardiogenic shock**  
Matteo Pozzi, France

**Extracorporeal membrane oxygenation in pregnancy: Survival and predictors of mortality**  
Kollengode Ramanathan, Singapore

**The clinical outcomes of VA ECMO for patients with AMI complicated by cardiac arrest due to left main coronary artery occlusion**  
Sung Jun Kim, South Korea

**Predictors of successful weaning from veno-arterial extracorporeal membrane oxygenation support**  
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**Neurological complications in adult ECMO patients - the experience of an Australian ECMO referral center**  
Jason Chapman, Australia

**Meta-analysis to assess in-hospital and remote outcomes after ECMO implantation for refractory cardiogenic shock in heart transplantation centres as compared to non-transplant units**  
Mariusz Kowalewski, Poland
Main Program | Thursday, 11 April 2019

**Limb ischemia and vascular complications following ECPR with routine distal perfusion catheter placement**
Gregory Bittle, United States

**IVIG administration in ECMO patients with suspected toxin-mediated shock**
Marijke Peetermans, United Kingdom

**Clinical experience of biventricular assist devices as a bridge to heart transplantation in adult**
Vitalii Volkov, Russian Federation

**Donnor in controlled asistolia (Mastrich III): Results of mobile multidisciplinary team**
Maria Castilla, Spain

**The challenges in brain death evaluations in patients supported on ECMO: A plea for expert consensus**
Michael Firstenberg, United States

**Poznan Out-of-Hospital Cardiac Arrest (POHCA) study - the first Polish ECPR pilot trial protocol**
Mateusz Puslecki, Poland

**Oxandroline in patients on venovenous extracorporeal membrane oxygenation: A case series**
Stacy Pelekhaty, United States

**No anticoagulation and no mechanical ventilation during VV ECMO complicated by refractory pulmonary haemorrhage**
Bryan Reidy, Ireland

**Veno-venous extracorporeal membrane oxygenation for severe acute respiratory distress syndrome in east China: A retrospective cohort study**
Songqiao Liu, China

**Intrahospital transport of adults on extracorporeal membrane oxygenation: A Chinese regional referral center experience**
Songqiao Liu, China

**Extracorporeal cardiopulmonary resuscitation for in-hospital and out-of-hospital cardiac arrest, 12-year data**
Mathias Allegaert, Belgium

**OP-04**

**Adult Moderated Abstract Session Kiosk 4**
Moderation: Peter Schellongowski, Austria; Alain Vuylsteke, United Kingdom

**Risk factors for iliopsoas hematoma in VV-ECMO patients: A single center study in Japan**
Hayato Taniguchi, Japan

**Complications during extracorporeal life support in trauma patients**
Justyna Swol, Germany

**Awake veno-venous extracorporeal membrane oxygenation: Does it improve survival?**
Ilkun Park, South Korea

**Correlations of BNP levels with fluid balance and hemodynamic parameters in patients with VV-ECMO**
Sunghoon Park, South Korea

**Sedation with alfentanil vs. fentanyl in patients receiving extracorporeal membrane oxygenation (ECMO): Outcomes from a single centre retrospective study**
Mike Barker, United Kingdom

**Antithrombin supplementation in an integrated protocol for anticoagulation management during VV ECMO: Impact on outcomes**
Gennaro Martucci, Italy

**OP-05**

**Adult Moderated Abstract Session Kiosk 5**
Moderation: Jordi Riera, Spain; Matthieu Schmidt, France

**Extracorporeal membrane oxygenation without systemic anticoagulation: Limited case-series in challenging conditions**
Dario Fina, Netherlands

**Extracorporeal membrane oxygenation without systemic anticoagulation: What we can learn from literature**
Dario Fina, Netherlands

**VV ECMO in complicated Malaria 3 cases report**
Camilo Pizarro, Colombia

**Colonization with multidrug-resistant Gram-negative bacteria during extracorporeal membrane oxygenation: Impact on patients outcome**
Stefano De Falco, Italy

**Comparison of complications in tracheostomy in patients with acute respiratory failure during and after venovenous extracorporeal membrane oxygenation support: A 10-year observational analysis**
Christoph Fisser, Germany
Comparison of complications in percutaneous and surgical tracheostomy in patients with acute respiratory failure on veno-venous extracorporeal membrane oxygenation: A 10-year observational analysis
Christoph Fisser, Germany

Application of veno-venous ECMO in postpartum hemorrhage complicated by transfusion-related acute lung injury
Rungsun Bhurayanontachai, Thailand

Enteral nutrition in ECMO: Pilot study
Edward Jose Casanova-Gongora, Spain

Initial experience using a new single-site dual-lumen bicaval cannula for veno-venous extracorporeal membrane oxygenation
Yuliya Tipograf, United States

Eligibility of patients with in-hospital cardiac arrest for extracorporeal cardiopulmonary resuscitation (ECPR) in a tertiary center
Eduard Argudo, Spain

Evaluation of liver function and their potential for transplantation in patients with cardiocirculatory arrest
Gustavo Nobre de Jesus, Portugal

OP-06
Adult Moderated Abstract Session Kiosk 6
Moderation: Nicholas Barrett, United Kingdom; Justyna Swol, Germany

Setting up an ELSO-based ECMO team in an adult ICU of a tertiary hospital
David Tellez, Spain

Implementation of a simulation-based ECMO/ECLS education program in an experienced center – how we do it in Zurich
Maximilian Halbe, Switzerland

Simplified ex vivo extracorporeal life support (ECLS) simulator
Justyna Swol, Germany

Six month roadmap for ECMO/Acute respiratory failure program deployment
Dianne McCallister, United States

Air transport in ECMO, program ECMO VAD experience
Camilo Pizarro, Colombia

In situ simulation training improves ECPR survival
Sean Scott, Australia

The clinical experience of emergency medical team-initiated inter-hospital transportation on extracorporeal membrane oxygenation
Xufeng Chen, China

12 years of inter-facility ECMO transport: Predictors for in-hospital mortality
Susan Leutloff, Germany

Outline and engineering of a novel simulation phantom providing integration of advanced life support and extracorporeal cardiopulmonary resuscitation-training scenarios for multiprofessional and interdisciplinary teams
Domagoj Damjanovic, Germany

The importance of simulation events for developing emergency protocols
John O’Neill, United Kingdom

Addressing the complexities of cross team sharing of information
Melanie Dineen, United Kingdom

ECMO transport in Perú: Initial experience
Belinda Gonzalez, Peru

Our way to centre of excellence
Mascha van Gijlswijk, Netherlands

Structuring an educational model for extracorporeal membrane oxygenation
Monika Tukacs, United States

OP-07
Pediatric Moderated Abstract Session Kiosk 7
Moderation: Malaika Mendonca, Switzerland; Nathalie Rintoul, United States

Times are changing: More than 30 years of neonatal ECMO (Extra Corporeal Membrane Oxygenation) in Mannheim: What did change?
Steffen Hien, Germany

Neurophysiological prognostication in venoarterial extracorporeal membrane oxygenation
Will McDevitt, United Kingdom

Neonatal hypoxic ischemic encephalopathy as comorbidity in neonatal respiratory disease: ELSO database analysis
Hitesh Sandhu, United States

Information needs of families of pediatric patients on extracorporeal membrane oxygenation (ECMO)
Alejandro Bosch Alcaraz, Spain

Cranial USS screening in paediatric ECMO - is there a need?
Eleanor Marshall, United Kingdom
The use of ECMO in children undergoing cardio-pulmonary resuscitation – when should we say no
Nicolae Cristian Bulescu, France

ECMO in infants with refractory hypoxemia due to acute respiratory distress syndrome controversial decision: initial experience in INCA clinic - Peru
Belinda Gonzales, Peru

Development of validated checklists to evaluate clinical specialists in pediatric ECMO emergencies using Delphi method
Kamal Abulebda, United States

Outcomes of pediatric patients with acute respiratory failure supported with prolonged ECMO: An ELSO registry review
Oshri Zaulan, Canada

Barriers to neonatal veno-venous ECMO: A national survey
Elizabeth Boot, United Kingdom

The impact of venous arterial extracorporeal membrane oxygenation on lung condition in neonatal and pediatric patients
Olga Maltseva, Russian Federation

High fidelity simulation in neonatal and paediatric ECMO: A safe and effective way to learn and train our team
Mar Reyne Vergeli, Spain

Reducing pressure sores by implementing a pressure sore prevention package in a paediatric ECMO centre
Jenny Budd, United Kingdom

Blood culture surveillance for paediatric ECMO patients: Do we need to do daily blood cultures from circuit? PICU at Alder Hey children’s hospital, Liverpool, UK
Shirley Nolan, United Kingdom

Increased soluble ST2 concentration in neonates with congenital diaphragmatic hernia and pulmonary hypertension receiving ECMO support
Lukas Schroeder, Germany

Postcardiotomy veno - arterial extracorporeal membrane oxygenation in children: A single centre experience over 25 years
Martina Sperkova, Czech Republic

OP-08
Pediatric Moderated Abstract Session Kiosk 8
Moderation: Mark Davidson, United Kingdom; Peter Roelleveld, Netherlands; Susana Segura, Spain

Intensive care of the neonatal patients with congenital diaphragmatic hernia
Ivan Afukov, Russian Federation

Extracorporeal membrane oxygenation in newborns with omphalocele and pulmonary hypoplasia
Serafim Ovchinnikov, Russian Federation

Intraoperative extracorporeal membrane oxygenation in children with tracheal stenosis
Artem Kulaev, Russian Federation

Designing a paediatric extracorporeal life support transport service
Sue Burlton, United Kingdom

Accidental azygous cannulation for ECMO support in right diaphragmatic hernia
Cristina Carrasco Carrasco, Spain

Prevention of pressure injuries due to cannulae in pediatric patient on extracorporeal membrane oxygenation (ECMO)
Alejandro Bosch Alcaraz, Spain

Reducing time to extra corporeal membrane oxygenation during cardiopulmonary resuscitation
Sunimol Joseph, Ireland

CardioHelp ECMO system alarms: Friend or foe
Michael Firstenberg, United States

Sterility and oxygenator function of long-term preprimed ECMO-circuit - a pilot study
Mia Persson, Sweden

Extracorporeal membrane oxygenator therapy without anticoagulation: Transillumination as an early method in detection of clots in the system
David Tellez, Spain
Safe in-hospital transport of the ECMO patient
Beatriz Lozano González, Spain

The influence of two different precharging methods on the preflush time and one-time success rate of ECMO pipeline
Yongxia Gao, China

Predictors of complications related to venoarterial extracorporeal membrane oxygenation in adults: A retrospective cohort study
Gislaine Rodrigues Nakasato, Brazil

Review of a clinical case: Patient with massive Pulmonary Thromboembolism (PTE), Pulmonary Arterial Hypertension (PAH) and cardiogenic shock (CS)
Almudena Mateos Dávila, Spain

ECMO specialist role in an ‘Out-of-Protocol’ scenario
Ana Santos, United Kingdom

ECMO therapy in Spain
Carlos Camacho, Spain

A five-year observational data analysis of sedation and analgesic requirements for neonatal and paediatric patients supported on ECMO for respiratory failure >7 days
Lynn Pereira, United Kingdom

Standardizing the delivery of ECMO across a large, academic medical center
Monika Cardona, United States

Emergent central venoarterial ECMO insertion in the intensive care unit. The nurses perspective
Elena Querol Vallés, Spain

New register in nursing planning care: The extracorporeal membrane oxygenation vascular device
Cecilia Cuzco, Spain

The strategic roles of nursing during ECPR: Pearls of wisdom from the early phases of operation of a multidisciplinary “Code ECMO” team
Patricia Alfaro, Canada

The move from an open care environment to a single patient room - ECMO nurses perception
Gunilla Frisén, Sweden

Nursing care of VA ECMO patients with central cannulation
David Tellez, Spain

Emergent venoarterial ECMO insertion outside the intensive care unit (ICU). The ICU nurse’s role
Anna Farrús, Spain

Nurse-led proning is safe in VV ECMO patients
Andrew Claxton, United Kingdom

ELSO Red Book Education
Monika Cardona, United States

From 19:15 Networking reception in the exhibition area, all congress delegates are invited to join.
Main Program | Friday, 12 April 2019

08:00 - 08:45
Room 5

Call for pediatrics cases
Moderation: Gail Annich, Canada; Chris Harvey, United Kingdom; Aparna Hoskote, United Kingdom

Extracorporeal cardiopulmonary resuscitation case study following cardiac strangulation
Deirdre O’Hara, Ireland

Extracorporeal life support: ECMO VV with flow under successful use of Cardiohelp® in an 8-month-old patient
Belinda Gonzales, Peru

Novel management of aortic incompetence during Left Ventricular Assistance Device (LVAD) as a bridge to transplantation
Javier Alvarez Gavela, United Kingdom

Elective use of ECMO for pheochromocytoma removal surgery
Maria Maria Mendes, Portugal

Role of Extra-Corporeal Life Support (ECLS) in thrombotic obstruction of prosthetic mitral valve: A case report
Naga Kishore Puppala, United Kingdom

Case report of a good outcome with early surgery and VA-ECMO support for endocarditis
Vanessa Stanley, United Kingdom

A tragic case with a public health message
Shirley Nolan, United Kingdom

08:00 - 08:45
Industry Sponsored Breakfast Symposium, please see page 43 for further details

08:00 - 11:45
Room 2

Hemodynamics workshop with Harvi
Moderation: Marc Dickstein, United States
Use of own laptop is recommended.

08:00 - 11:45
Room 6 / 8

The role of the perfusionist in ICU
Moderation: Antonella Degani, Italy; Alicia Pastor, Spain

Hybrid ECMO Modes: What’s for?
Luis Pinto, Portugal

Pro: We need perfusionist in the ICU
Leen Vercaemst, Belgium

Con: We need perfusionist in the ICU
Lars Mikael Broman, Sweden

09:00 - 10:30
Room 6 / 8

Mechanical ventilation on ECMO
Moderation: Nicholas Barrett, United Kingdom; Christian Karagiannidis, Germany

Why reducing mechanical ventilation intensity?
Alain Combes, France

What are the current practices?
Daniel Brodie, United States

The good and the bad of the PEEP
Fernando Suárez-Sipmann, Spain

What is S-ILI?
Antonio Pesenti, Italy

Proning on ECMO
Matthieu Schmidt, France
Main Program | Friday, 12 April 2019

09:00 - 10:30  
Room 5

State of the art: ECMO: Where are we now?  
Moderation: Joan Balcells, Spain; Robert Bartlett, United States; Carl Davis, United Kingdom

Neonatal ECMO in current era: Patient selection and outcomes  
Nathalie Rintoul, United States

Congenital diaphragmatic hernia: The Mannheim Success Story  
Tomas Schaible, Germany

Cardiac ECMO: How can we improve outcomes?  
Katherine Brown, United Kingdom

Advances in cannulation techniques - percutaneous cannulation  
Bjorn Frenckner, Sweden

ECMO to VAD journey - Berlin heart life story  
Brigitte Stiller, Germany

09:00 - 10:30  
Room 3

When ECMO is not enough (Translation to Spanish provided)  
Moderation: Ann Alexanderson, Sweden; Kathleen Daly, United Kingdom

ECCO2R indications  
Chirine Mossadegh, France

Proning on VV-ECMO  
Sabine Valera, France

Role of intra aortic baloon pump  
Alicia Pastor, Spain

Switch to LVAD  
Jo-Anne Fowles, United Kingdom

The impella family  
Raphaele Morfin, France

09:00 - 10:30  
Room 4

ECMO 3.0  
Moderation: Luis Pinto, Portugal; Leen Vercaemst, Belgium

Development of new membranes and pumps  
Antonella Degani, Italy

The role of the perfusionist during organ donation  
Karlien Degezelle, Belgium

The key role of simulation to improve safety  
Maite Mata, Spain

Role of echocardiography in routine ECMO monitoring  
Martin Balik, Czech Republic

Key notions of drugs pharmacokinetics on ECMO  
Velia Antonini, Italy

09:00 - 10:00  
Educational Corner program, please see details at page 29

10:30 - 11:00  
Coffee break in the exhibition area

11:00 - 11:45  
Auditorium

Ethic in ECMO  
Moderation: Daniel Brodie, United States; Aparna Hoskote, United Kingdom

Pro: ECMO withdrawing is preferable to ECMO withholding  
Nicholas Barrett, United Kingdom

Con: ECMO withdrawing is preferable to ECMO withholding  
Alain Vuylsteke, United Kingdom

No recovery, no hope of transplant: Pediatric view on therapy limitation  
Peter Roeleveld, Netherlands
Main Program | Friday, 12 April 2019

**VA-ECMO – after cardiac surgery**
Moderation: Xiangdong Guan, China; Elena Sandoval, Spain

- Post-cardiotomy pump failure: Epidemiology and outcomes
  Roberto Lorusso, Netherlands

- Post-cardiotomy VA-ECMO: Surgical techniques and considerations
  Felix Hennig, Germany

- ECMO for graft dysfunction after heart transplant
  Alessandro Sionis, Spain

**ECMO for myocardial failure**
Moderation: Gail Annich, Canada; Mark Davidson, United Kingdom; Matteo Di Nardo, Italy

- The role of ECMO in heart failure
  Jonathan Smith, United Kingdom

- Pro: Open chest cannulation for overwhelming sepsis
  Joanne Starr, United States

- Con: Open chest cannulation for overwhelming sepsis
  Tim Jones, United Kingdom

**ECMO complications: Interactive session (Translation to Spanish provided)**
Moderation: Santiago Montero, Spain; Mark Ogino, United States

- Anticoagulation management
  Kathleen Daly, United Kingdom

- Limb ischemia
  Jacqueline Janssen, Netherlands

- Flow variations
  Rocio Agliati, Chile

**Physics of the ECMO**
Moderation: Velia Antonini, Italy; Maite Mata, Spain

- Determinants of oxygenation and decarboxylation
  Thomas Staudinger, Austria

- How do I choose my cannula?
  Leen Vercaemst, Belgium

- Can we finally abandon roller pumps?
  Emmanuel Devolder, Belgium

11:00 - 12:00 Educational Corner program, please see details at page 29

12:00 - 13:30 Industry symposia, please see page 43 for further details

12:00 - 13:00 Meet the poster authors

13:15 - 14:15 Educational Corner program, please see details at page 29

13:45 - 14:30 Auditorium

**VV-ECMO: Future challenges**
Moderation: Thomas Bein, Germany; Bjorn Frenckner, Sweden

- ECMO VV without mechanical ventilation for ARDS?
  Roberto Roncon-Albuquerque, Portugal

- Early physical rehabilitation for all?
  Alain Vuylsteke, United Kingdom

- Good long-term outcome?
  Steffen Weber-Carstens, Germany
Main Program | Friday, 12 April 2019

**13:45 - 14:30**
**Room 6 / 8**

**Adjuvant cardiac mechanical support**
Moderation: Santiago Montero, Spain; Christian Karagiannidis, Germany

**IABP – when to consider?**
Xiaotong Hou, China

**Right ventricle mechanical support**
Christian Karagiannidis, Germany

**Impella – when to consider?**
Guillaume Lebreton, France

**13:45 - 14:30**
**Room 4**

**Latest from the lab...**
Moderation: Jonathan Millar, Ireland; John Fraser, Australia

**Year in review in experimental ECMO**
John Fraser, Australia

**How to design the optimal ECMO pump?**
Sascha Gross-Hardt, Germany

**Very low resistance oxygenators and beyond**
Jutta Arens, Germany

**13:45 - 14:30**
**Room 5**

**Pediatric respiratory ECMO**
Moderation: Pierre-Louis Leger, France; Tomas Schaible, Germany; Susana Segura, Spain

**Long term pediatric ECMO runs**
Gail Annich, Canada

**Spontaneous breathing during ECMO: Pro & Con**
Matteo Di Nardo, Italy

**Physical therapy and rehabilitation to aid recovery**
Emma Shkurka, United Kingdom

**13:45 - 14:30**
**Room 6 / 8**

**We need nurses ECMO specialist a pro/con nurse session**
(Translation to Spanish provided)
Moderation: Kathleen Daly, United Kingdom; Alicia Pastor, Spain

**Pro: We need ECMO nurses**
Jo-Anne Fowles, United Kingdom

**Con: We need ECMO nurses**
Chirine Mossadegh, France

**Panel discussion**

**14:30 - 15:30**
**Educational Corner program, please see details at page 29**

**14:45 - 15:30**
**Auditorium**

**Improving outcome on VA-ECMO**
Moderation: Martin Balik, Czech Republic; Nicolas Bréchot, France

**Percutaneous VA for everyone**
Guillaume Lebreton, France

**How to deal with Harlequin syndrome?**
Lars Mikael Broman, Sweden

**Mechanical ventilation during VA-ECMO: Should we be concerned?**
Santiago Montero, Spain

**14:45 - 15:30**
**Room 6 / 8**

**Neurological complications on ECMO**
Moderation: Robert Bartlett, United States; Antonio Pesenti, Italy

**Incidence and major determinants**
Roberto Lorusso, Netherlands

**Pro: Desaturation on VV-ECMO does not matter**
Kenneth Palmer, Sweden

**Con: Desaturation on VV-ECMO does not matter**
Antonio Arcadipane, Italy
Main Program | Friday, 12 April 2019

14:45 - 15:30
Room 5

**Multidisciplinary education on ECMO**
Moderation: Chris Harvey, United Kingdom; Lakshmi Raman, United States; Nathalie Rintoul, United States

**Multidisciplinary simulation training – does it improve outcomes?**
Mark Ogino, United States

**Education and simulation for mobile ECMO**
Ibrahim M. Fawzy, Qatar

**The role of the wet lab**
Mirjana Cvetkovic, United Kingdom

**ELSO guidelines: Working towards minimum standards globally?**
Lakshmi Raman, United States

14:45 - 15:30
Room 3

**Ethic in ECMO**  
(Translation to Spanish provided)
Moderation: Joan Balcells, Spain; Maura O’Callaghan, United Kingdom

**When and how to stop ECMO?**
Steffen Weber-Carstens, Germany

**End of life and awake patients**
Ann Alexanderson, Sweden

**Mitigating ECMO expectations with ethicists at bedside**
Matteo Di Nardo, Italy

14:45 - 15:30
Room 4

**How to reduce ECMO-induced inflammation?**
Moderation: Lisa Prahl Wittberg, Sweden; Brijesh Patel, United Kingdom

**Pathophysiology of inflammatory response to ECMO**
John Fraser, Australia

**What went wrong with mesenchymal stem cells in ECMO?**
Jonathan Millar, Ireland

**Biohybrid oxygenators: Technical advances**
Stefan Jockenhövel, Germany

15:30 - 16:00
Coffee break in the exhibition area

16:00 - 16:45
Auditorium

**ECMO – challenging indications**
Moderation: Alain Combes, France; Simon Finney, United Kingdom

**High risk pulmonary embolism**
Luigi Camporota, United Kingdom

**Lung transplant**
Jordi Riera, Spain

**Severe septic shock**
Nicolas Bréchot, France

16:00 - 16:45
Room 6 / 8

**VA-ECMO drawback**
Moderation: Thomas Mueller, Germany; Matthieu Schmidt, France

**Cerebral function monitoring on ECMO**
Konstantin A. Popugaev, Russian Federation

**Anterograde perfusion canula: Risks and benefits**
Sandeep Dewan, India

**Critical care in China: ECMO perspective, current and future**
Xiangdong Guan, China

16:00 - 16:45
Room 5

**ECMO organization and care delivery**
Moderation: Aparna Hoskote, United Kingdom; Maura O’Callaghan, United Kingdom; Mark Ogino, United States

**Pro: ECMO care should be centralized**
Mark Davidson, United Kingdom

**Con: ECMO care should be centralized**
Pierre-Louis Leger, France

**Looking after the family of patients on ECMO**
Jo Wray, United Kingdom

session color codes: please see page 9
Main Program | Friday, 12 April 2019

16:00 - 16:45
Room 3

**Bedside care**
*(Translation to Spanish provided)*
Moderation: Ann Alexanderson, Sweden; Justyna Swol, Germany

**VA-ECMO management**
Alicia Pastor, Spain

**Nurse role during E-CPR**
Rocio Agliati, Chile

**Rehabilitation/mobilisation on ECMO**
Kathleen Daly, United Kingdom

16:00 - 16:45
Room 4

**From computation of flow dynamics to the animal lab**
Moderation: Jan Bělohlávek, Czech Republic; John Fraser, Australia

**Drawbacks and Opportunities of computational fluid dynamics to design new systems**
Jutta Arens, Germany

**Optical flow visualization**
Lisa Prahl Wittberg, Sweden

**Opportunities and limitations of animal ECMO models**
Kiran Shekar, Australia

16:00 - 17:00

Educational Corner program, please see details at page 29

17:00 - 17:45
Room 6 / 8

**Coagulation on ECMO**
Moderation: Gennaro Martucci, Italy; Matthieu Schmidt, France

**What are the anticoagulation targets for low-flow and high-flow ECMO?**
Dirk Donker, Netherlands

**Platelets function**
Marco Ranucci, Italy

**ECMO in trauma: Still controversial?**
Justyna Swol, Germany

17:00 - 17:45
Room 5

**Mobile ECMO**
Moderation: Lars Mikael Broman, Sweden; Uri Pollak, Israel; Karlien Degezelle, Belgium

**Developing a mobile ECMO team**
Chris Harvey, United Kingdom

**Minimizing risk in intra-hospital transport**
Susana Segura, Spain

**Air ECMO transport**
Mark Davidson, United Kingdom

17:00 - 17:45
Room 3

**Staffing models**
*(Translation to Spanish provided)*
Moderation: Jo-Anne Fowles, United Kingdom; Chirine Mossadegh, France

**Who do what in a mobile team?**
Ann Alexanderson, Sweden

**Round table**
Ann Alexanderson, Sweden; Mark Ogino, United States; Sabine Valera, France; Leen Vercaemst, Belgium

17:00 - 17:45
Room 4

**ECMO for hematological patients**
Moderation: Kenneth Palmer, Sweden; Thomas Staudinger, Austria

**Case(s) presentation(s)**
Martin Balik, Czech Republic

**Pro: Should we propose ECMO for hematological patients?**
Peter Schellongowski, Austria

**Con: Should we propose ECMO for hematological patients?**
Thomas Mueller, Germany

17:00 - 17:45
Auditorium

**VA-ECMO and LV distension:**
*Understanding the underlying physiology with computer simulation*
Moderation: Marc Dickstein, United States
Main Program | Saturday, 13 April 2019

08:00 - 09:30
Room 5

Complications on ECMO - let's focus on anticipation and prevention
Moderation: Joan Balcells, Spain; Lakshmi Raman, United States; Malaika Mendonca, Switzerland

Neuromonitoring, neuroprotection and neurodevelopmental follow-up
Aparna Hoskote, United Kingdom

ECMO after CPR: Multi-organ failure
Sylvia Belda, Spain

Walking the tight rope: Preventing bleeding and thrombosis
Uri Pollak, Israel

Mechanical complications: Prevention, detection and management
Francisco Abecasis, Portugal

Acute kidney injury
Peter Roeleveld, Netherlands

08:00 - 08:45
Industry Sponsored Breakfast Symposium, please see page 43 for further details

08:45 - 10:15
Room 6 / 8

What it takes on top of technical skills - ethical decision making!
Moderation: Chirine Mossadegh, France; Steffen Weber-Carstens, Germany

Spiritual and palliative care providers
Daniel Brodie, United States

Ethical practices variations?
Matthieu Schmidt, France

Moral distress in ECMO caregivers
Sabine Valera, France

Clinical ethics consultation
Steffen Weber-Carstens, Germany

We need institutional frameworks for ethical decision-making!
Thomas Bein, Germany

09:00 - 10:00
Educational Corner program, please see details at page 29

09:30 - 10:15
Room 5

Cardiac ECMO
Moderation: Aparna Hoskote, United Kingdom; Sylvia Belda, Spain; Peter Roeleveld, Netherlands

ECMO in pre and post cardiac surgery
Tim Jones, United Kingdom

ECLS in right heart failure
Tomas Schaible, Germany

New circulatory support devices
Brigitte Stiller, Germany

10:00 - 10:30
Coffee break in the exhibition area

session color codes: please see page 9
Anticoagulation on ECMO
Moderation: John Fraser, Australia; Max Malfertheiner, Germany

Point of care coagulation testing
Marco Ranucci, Italy

Heparin induced thrombocytopenia on ECMO
Brijesh Patel, United Kingdom

Alternative anticoagulation regimes
Gennaro Martucci, Italy

The top ranked adults abstract selection
Moderation: Nicholas Barrett, United Kingdom; Alain Combles, France

eCPR with international transport, bridged to salvage lung transplant in a young woman with decompensated right ventricular failure from severe pulmonary arterial hypertension attributable to congenital heart disease
Kali Romano, Canada

Effect of tracheostomy on sedation, ventilation and ECMO adjustments in patients with acute respiratory failure on veno-venous extracorporeal membrane oxygenation: A 10-year observational analysis
Christoph Fisser, Germany

What is optimal nutrition delivery for patients on VV ECMO?
Stacy Pelekhaty, United States

NSE progression in eCPR patients – a relevant consideration for prognosis
Daniele Camboni, Germany

Decannulation after VA ECMO with a new vascular closure device
Lukasz Kmiec, Germany

The hemodynamic impact of different left ventricular unloading strategies during VA-ECLS, a systematic literature study and meta-analysis
Christiaan Lucas Meuwese, Netherlands

LV venting techniques on top of veno-arterial ECMO in porcine cardiogenic shock model
Paolo Meani, Netherlands (winner EURO ELSO Research Grant 2017)
Main Program | Saturday, 13 April 2019

11:30 - 12:15
Auditorium

Additional procedures on ECMO
Moderation: Antonio Arcadipane, Italy; Nicholas Barrett, United Kingdom

How to integrate RRT in ECMO circuits?
Max Malfertheiner, Germany

How to make a safe tracheotomy on ECMO?
Bjorn Frenckner, Sweden

Nutrition on ECMO: Should we be concerned?
Danielle Bear, United Kingdom

11:30 - 12:15
Room 6 / 8

ECMO – in exceptional situations
Moderation: Luigi Camporota, United Kingdom; Ibrahim M. Fawzy, Qatar

ECMO for intoxications
Konstanty Szuldrzynski, Poland

ECMO for accidental hypothermia
Martin Balik, Czech Republic

Organ donation facilitated by ECMO
Constantino Fondevilla, Spain

11:30 - 12:15
Room 5

ECMO: Looking to the future
Moderation: Francisco Abecasis, Portugal; Matteo Di Nardo, Italy

Immunotherapies and gene therapy
Dick Tibboel, Netherlands

ECMO bridge to lung transplant: Is it a reality?
Joan Balcells, Spain

Balancing rising costs with quality of life years gained
Katherine Brown, United Kingdom

12:15 - 13:00
Auditorium

Closing Ceremony, Young Investigator Awards and invitation next edition
Moderation: Nicholas Barrett, United Kingdom; Alain Combes, France
Simulation-based learning is frequently used in medical education and skills training, especially related to complex technologies like extracorporeal systems.

Educational Corner during EuroELSO conference provides a near authentic experience and enhanced learning. EduCorner simulations rely on scenarios similar to clinical practice in controlled environment without any negative consequences of an error.

The Educational Corners are limited to 20 participants per sessions and pre-registration is mandatory. Please check the website for further details www.euroelso-congress.com/educational-corner

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
<th>Trainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Thrills and Spills of delivering hemofiltration and plasma exchange to your ECMO patient</td>
<td>12 April 2019</td>
<td>11:00 - 12:00, 14:30 - 15:30, 09:00 - 10:00, 10:30 - 11:30</td>
<td>Room 7</td>
<td>Margaret Farley, Jo-Anne Fowles</td>
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<td></td>
<td>13 April 2019</td>
<td>13:15 - 14:15, 14:30 - 15:30, 16:00 - 17:00, 17:00 - 18:00</td>
<td>Room 2</td>
<td>Emmanuel Devolder, Tim Jones, Leen Vercaemst</td>
</tr>
<tr>
<td>Circuit Factors: Pitfalls &amp; Challenges of Hybrid ECLS</td>
<td>12 April 2019</td>
<td>09:00 - 10:00, 11:00 - 12:00, 13:15 - 14:15, 14:30 - 15:30, 09:00 - 10:00</td>
<td>Room 1</td>
<td>Matthias Baumgärtel, Justyna Swol, Karin Buttler, Kathrin Emmrich, Steffen Nietzold</td>
</tr>
<tr>
<td>ECLS in OHCA and IHCA - Simulation with Cannulation Training</td>
<td>12 April 2019</td>
<td>09:00 - 10:00, 11:00 - 12:00, 13:15 - 14:15, 16:00 - 17:00</td>
<td>Room VIP</td>
<td>Mirjana Cvetkovic, Maura O’Callaghan</td>
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<tr>
<td>Troubleshooting on paediatric ECMO</td>
<td>12 April 2019</td>
<td>13:00 - 14:00, 14:00 - 15:00, 15:30 - 16:30, 16:30 - 17:30</td>
<td>Room 3</td>
<td>Rocia Agliati, Nicolette Van Sint Jan</td>
</tr>
<tr>
<td>Fisiología del ECMO (Spanish language only)</td>
<td>10 April 2019</td>
<td>13:00 - 14:00, 14:00 - 15:00, 15:30 - 16:30, 16:30 - 17:30</td>
<td>Room 3</td>
<td>Rocia Agliati, Nicolette Van Sint Jan</td>
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</tbody>
</table>
Bridging the Gap
LUCAS® 3, v3.1
Mechanical chest compression system

I provide consistent, quality CPR
I never get tired*
I help save lives

The LUCAS Chest Compression System offers guidelines-consistent, high-quality chest compressions for as long as needed.

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Meet LUCAS® 3, v3.1 your bridge to ECMO at stand B.05!

More info on: lucas-cpr.com
Invited Faculty (as per March 2019, subject to change)

A
Abecasis, Francisco, Portugal
Agliati, Rocio, Chile
Alexanderson, Ann, Sweden
Annich, Gail, Canada
Antonini, Velia, Italy
Arcadipane, Antonio, Italy
Arens, Jutta, Germany
Ariza, Albert, Spain

B
Balcells, Joan, Spain
Balik, Martin, Czech Republic
Barrett, Nicholas, United Kingdom
Bartlett, Robert, United States
Bear, Danielle, United Kingdom
Bein, Thomas, Germany
Belda, Sylvia, Spain
Bělohlávek, Jan, Czech Republic
Bottari, Gabriella, Italy
Bréchot, Nicolas, France
Brodie, Daniel, United States
Brogan, Thomas, United States
Broman, Lars Mikael, Sweden
Brown, Katherine, United Kingdom

C
Camporota, Luigi, United Kingdom
Cavallaro, Giacomo, Italy
Chen, Yih-Shang, Taiwan
Combes, Alain, France
Cvetkovic, Mirjana, United Kingdom

D
Daly, Kathleen, United Kingdom
Davidson, Mark, United Kingdom
Davis, Carl, United Kingdom
De Luca, Daniele, France
Degani, Antonella, Italy
Degezelle, Karlien, Belgium
Devolder, Emmanuel, Belgium
Dewan, Sandeep, India
Di Nardo, Matteo, Italy
Dickstein, Marc, United States
Donker, Dirk, Netherlands

F
Farley, Margaret, United Kingdom
Fawzy, Ibrahim M., Qatar
Finney, Simon, United Kingdom
Fondevilla, Constantino, Spain
Fowles, Jo-Anne, United Kingdom
Fraser, John, Australia
Frenckner, Bjorn, Sweden

G
Gershlick, Tony, United Kingdom
Gross-Hardt, Sascha, Germany
Guan, Xiangdong, China

H
Harvey, Chris, United Kingdom
Hennig, Felix, Germany
Hoskote, Aparna, United Kingdom
Hou, Xiaotong, China

J
Janssen, Jacqueline, Netherlands
Jockenhövel, Stefan, Germany
Jones, Tim, United Kingdom

K
Karagiannidis, Christian, Germany
Kneyber, Martin, Netherlands

L
Lamhaut, Lionel, France
Lebreton, Guillaume, France
Leger, Pierre-Louis, France
Lorusso, Roberto, Netherlands

M
Malfertheiner, Max, Germany
Martucci, Gennaro, Italy
Mata, Maite, Spain
McCaulay, Dany, Ireland
Meani, Paolo, Netherlands
Mendonca, Malaika, Switzerland
Millar, Jonathan, Ireland
Montero, Santiago, Spain
Morfin, Raphaele, France
Moscatelli, Andrea, Italy
Mossadegh, Chirine, France
Mueller, Thomas, Germany
O’Callaghan, Maura, United Kingdom
Ogino, Mark, United States
Palmer, Kenneth, Sweden
Pappalardo, Federico, Italy
Pastor, Alicia, Spain
Patel, Brijesh, United Kingdom
Peek, Giles, United States
Pesenti, Antonio, Italy
Pinto, Luis, Portugal
Pokorna, Pavla, Czech Republic
Pollak, Uri, Israel
Pons, Marti, Spain
Popugaev, Konstantin A., Russian Federation
Prahl Wittberg, Lisa, Sweden
Raman, Lakshmi, United States
Ranieri, Marco, Italy
Ranucci, Marco, Italy
Reis Miranda, Dinis, Netherlands
Riera, Jordi, Spain
Rimensberger, Peter, Switzerland
Rintoul, Nathalie, United States
Roeleveld, Peter, Netherlands
Roncon-Albuquerque, Roberto, Portugal

Sandoval, Elena, Spain
Schaible, Thomas, Germany
Schellongowski, Peter, Austria
Schmidt, Matthieu, France
Segura, Susana, Spain
Shekar, Kiran, Australia
Shkurka, Emma, United Kingdom
Sionis, Alessandro, Spain
Smith, Jonathan, United Kingdom
Starr, Joanne, United States
Staudinger, Thomas, Austria
Stiller, Brigitte, Germany
Suárez-Sipmann, Fernando, Spain
Swol, Justyna, Germany
Szuldrzynski, Konstanty, Poland
Tibboel, Dick, Netherlands
Valera, Sabine, France
Van Sint Jan, Nicolette, Chile
Vercaemst, Leen, Belgium
Vuylsteke, Alain, United Kingdom
Weber-Carstens, Steffen, Germany
Wray, Jo, United Kingdom
Information for Speakers

Speakers’ Preview Room

The speakers’ preview room is located on level 0 next to the exhibition area. Speakers are asked to hand in their CD ROM or USB stick, containing the PowerPoint Format 97-2007, 2010, 2013 or 2016 in ppt or pptx format, or Adobe Acrobat Reader (pdf) to guarantee slides will open successfully on an on-site PC. Prepare your presentation in 16:9 or 4:3 format (screens are in 16:9 format).

Speakers are asked to contact the speakers’ preview room preferably one day before their presentation, at the latest 90 minutes prior to the presentation.

Several PC working stations are provided in the speakers’ preview room where speakers can also work on their charts. Technical staff will be glad to assist.

The presentation will be transferred to the central congress server and will be available afterwards on a special congress notebook in the hall of presentation. Use of own technical equipment (laptop, MacBook) is not allowed and possible.

Opening Hours of the Speakers’ Preview Room

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday, 10 April 2019</td>
<td>11:30 - 17:30</td>
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<tr>
<td>Thursday, 11 April 2019</td>
<td>07:30 - 18:00</td>
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<td>Friday, 12 April 2019</td>
<td>07:30 - 18:00</td>
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<tr>
<td>Saturday, 13 April 2019</td>
<td>07:30 - 11:30</td>
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Poster Sessions

Electronic posters are displayed at the EuroELSO 2019 congress. All ePoster are available for viewing at ePoster kiosks on level 0 – ground floor next to the exhibition.

Schedule of Poster Sessions

Moderated posters – Thursday, 11 April 2019 18:15 - 19:15
Poster authors are expected to present their poster and answer questions by the moderator as well as the audience at their dedicated kiosk. Allocation of moderator poster please see page 14.

Posters – Friday, 12 April 2019 12:00 - 13:00
Meet the poster authors during the lunch break. Poster authors are requested to stay at their dedicated kiosk. Allocation of posters according to the website and information chart.
LUNCH SYMPOSIUM
MODERN PARADIGMS OF CANNULATION

EuroELSO
Friday, April 12th 2019
From 12:00 pm to 01:00 pm

PALAU DE CONGRESSOS DE BARCELONA
Avinguda de la Reina Maria Cristina, s/n
08004 Barcelona, SPAIN
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General Congress Information

Registration

All congress materials and documents will be available at the congress registration counter located ground floor at the Palau de Congressos de Barcelona, Fira Montjuïc, Av. Reina Maria Cristina s/n 08004 Barcelona, Spain.

Registration Counter Opening Hours

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<tr>
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<tr>
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<td>Saturday, 13 April 2019</td>
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During these opening hours, the congress registration counter can be reached at: +34 93 2333222

Registration Fees

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<tr>
<th>Registration Types</th>
<th>On-site Price</th>
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<tbody>
<tr>
<td>Physician – ELSO Member</td>
<td>€600</td>
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<tr>
<td>Nurse, Perfusionist – ELSO Member</td>
<td>€350</td>
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<tr>
<td>Physician – Non Member</td>
<td>€700</td>
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<tr>
<td>Nurse, Perfusionist – Non Member</td>
<td>€400</td>
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<tr>
<td>Student</td>
<td>€240</td>
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Pre-Congress Fee

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<tr>
<td>Physician – ELSO Member</td>
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<td>Nurse, Perfusionist – ELSO Member</td>
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<tr>
<td>Physician – Non Member</td>
<td>€325</td>
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<td>Nurse, Perfusionist – Non Member</td>
<td>€275</td>
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<tr>
<td>Student</td>
<td>€120</td>
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</tbody>
</table>
General Congress Information

The registration fee for delegates includes:

• Access to the Scientific Sessions
• Access to the Exhibition
• Free copy of the Perfusion Abstract book (subject to availability)
• Certificate of Attendance
• Networking Reception on Thursday, 11 April 2019

On-site Registration
On-site registration will be processed on a first come, first served basis. Priority will be given to pre-registered delegates.

Self-print
Please use the barcode, which was send to you via email, to print out your name badge at the provided printing stations.

Name badge
All participants are requested to wear their name badges at all times during the congress.

Colour
Dark Blue
Blue
Green
Grey
Red

Steering Committee, Faculty
Physician, Student
Perfusionist, Nurse
Exhibitor
Organizer

CME Credits

Certification
The 8th EuroELSO Congress is accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) to provide the following CME activity for medical specialists.

The 8th EuroELSO Congress is designated for a maximum of (or for up to) 20 hours of European external CME credits.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credits to AMA credits can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC® credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

The American Board of Cardiovascular Perfusion has granted 29,7 CEUs for this event.
Good to know

**ART meets ECMO**
Visit the ‘ART meets ECMO - 30 Years of ELSO’ exhibition on level 2 and receive your personal copy of the calendar.

**Charging station mobile devices**
Be welcomed at the EuroELSO charging lounge in the exhibition area for recharging your mobile devices.

**Cloakroom**
A cloakroom is available on level 1. You can also store you luggage there.

**Coffee breaks**
Coffee and tea is provided during the breaks in the exhibition area.

**Congress Dinner at Xalet de Montjuic**
**Friday, 12 April 2019**
Meet your colleagues, make new friends and network with other congress participants while enjoying dinner. The Xalet de Montjuic is located on the hill Montjuic with spectacular views over Barcelona. Enjoy excellent Mediterranean cuisine while Barcelona lies at your feet. Price per person EUR 95,00, incl. 3-course menu, beverages and entertainment. A few tickets are available at the registration counter on a first come – first served basis.

**Currency**
The official Spanish currency is Euro. Exchange of foreign currency is available at the airport, train station, at most hotels, banks and exchange offices.

**Disclaimer**
The organizers cannot accept liability for injuries or losses of whatever nature incurred by participants, nor for loss of or damage to their luggage and/or personal belongings.

**Language**
The official language of the 8th EuroELSO Congress is English. However, all participants are encouraged to join discussions regardless of their fluency in English, as the exchange of ideas and critical evaluation of presentation is the main purpose of the entire congress. Nursing block sessions will be translated from English to Spanish language.

**Mobile phones**
Participants are kindly requested to keep their mobile phones turned off while attending the scientific sessions.
Good to know

**Networking Reception**
Thursday, 11 April 2019 from 19:15 in the exhibition area
All registered congress participants are invited to attend. Drinks and light refreshments will be provided.

**Personal insurance**
We recommend that all participants take out a personal travel and health insurance for their trip.

**Press**
Journalists should bring their press ID and register at the congress registration counter.

**Program changes**
The organizers cannot assume liability for any changes in the program due to external unforeseen circumstances.

**Recording**
Cameras, video cameras or audio recording devices are not permitted in the session rooms. Any recording/documentation of sessions is strictly forbidden.

**Safety**
As in all major cities and congress venues, people should take care of their personal belongings. It is not advised to wear your congress badge outside the 8th EuroELSO Congress activities.

Please have your handbag, bag, backpack etc. ready for inspection by security officers while entering the congress venue.

**Smoking policy**
Smoking is not allowed at the venue; the meeting is a non-smoking event.

**Visa**
Spain is part of the European Schengen area. The entry formalities for Spain vary accordingly to the country of origin. A letter of invitation can be issued by the congress and registration office.

**Wi-Fi**
Complimentary Wi-Fi access is available in the Congress Centre.
Password: euroelso2019
Industry / Exhibition

This event is supported, in part, by funding from industry. All support is managed in strict accordance with CME/CPD accreditation criteria and standards for commercial support.

This section contains information that is promotional in nature, distinct from the scientific/educational elements of the main CME/CPD event.

Exhibition Floor Plan
Sponsor and Exhibitor Overview

Sponsors

We kindly thank all our sponsors for their support! Sponsor names are in alphabetical order.

Exhibitor Overview

<table>
<thead>
<tr>
<th>Company</th>
<th>Booth No.</th>
<th>Training Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomed Simulation Inc.</td>
<td>B.07</td>
<td></td>
</tr>
<tr>
<td>Chalice Medical Ltd.</td>
<td>B.03</td>
<td></td>
</tr>
<tr>
<td>CytoSorbents Europe GmbH</td>
<td>A.01</td>
<td>U.01</td>
</tr>
<tr>
<td>EUROSETS</td>
<td>B.08</td>
<td></td>
</tr>
<tr>
<td>Extracorporeal Life Support Organization (ELSO)</td>
<td>A.09</td>
<td></td>
</tr>
<tr>
<td>Getinge</td>
<td>A.04</td>
<td>U.02</td>
</tr>
<tr>
<td>Hemovent GmbH</td>
<td>A.06</td>
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<td>LivaNova</td>
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<tr>
<td>Medical Simulator</td>
<td>B.13</td>
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<tr>
<td>Medtronic International Trading Sàrl</td>
<td>A.03</td>
<td></td>
</tr>
<tr>
<td>Mitsubishi Tanabe Pharma GmbH</td>
<td>B.04</td>
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<tr>
<td>Nova Biomedical</td>
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<tr>
<td>Spectrum Medical</td>
<td>A.02</td>
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<tr>
<td>Stryker</td>
<td>B.05</td>
<td></td>
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<tr>
<td>TCS-ECMO Congress</td>
<td>B.12</td>
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<tr>
<td>TRANSONIC</td>
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<tr>
<td>WISEPRESS</td>
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<td>XENIOS AG</td>
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<tr>
<td>Zeon Medical Inc.</td>
<td>A.05</td>
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</table>

Exhibition Opening Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, 11 April</td>
<td>13:00 – 20:30</td>
</tr>
<tr>
<td>Friday, 12 April</td>
<td>08:00 – 18:00</td>
</tr>
<tr>
<td>Saturday, 13 April</td>
<td>08:00 – 13:00</td>
</tr>
</tbody>
</table>
Code of Transparency

Interplan publishes the conditions and the scope of the support provided by EFPIA member companies to the EuroELSO Congress on a voluntary basis. The publication will be carried out before and during the execution of the congress.

For the industry partners mentioned on page 41, we are herewith informing about their overall support within the framework of the EuroELSO Congress 2019.

We are pleased to inform you that the EuroELSO Congress 2019 is compliant in accordance with the principles and standards set out in the MedTech Europe Code of Ethical Business Practice.

THANK YOU to all our clients, partners, exhibitors, the many participants and our team without whom this anniversary would not have been possible.

50 Years Interplan 1969 - 2019
Corporate Sessions / Training Units

Training Units:
Visit the Training Units of our sponsors CytoSorbents and Getinge within the exhibition area and get updated on latest releases. Seats are limited on a first come – first served basis. Please check the website for further details: www.euroelso-congress.com/training-units

Topics:
Join the Getinge training village and our eCPR and ECMO dedicated hands on sessions and presentations:

- eCPR simulation workshop/ eCPR in live
- Evaluating and re-evaluating the patient on ECMO - Practical application
- Cannulation trouble shooting advanced - The cannulas are in – now what

ECMO in combination with CytoSorb hemoadsorption – Tips and tricks for perfect use

- Experiences from Switzerland
- Rationale and indications for CytoSorb in ECMO patients
- Experiences from Italy
- CytoSorb setup in different ECMO systems

Friday, 12 April 2019
09:00 - 10:30
11:00 - 11:45
14:00 - 15:30
16:00 - 17:30

Saturday, 13 April 2019
08:30 - 10:00
10:30 - 12:00

Industry Sponsored Symposium

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medtronic ECLS Solutions, supported by an unrestricted grant from Medtronic</td>
<td>11 April 2019</td>
<td>12:15 - 13:45</td>
<td>Room 6</td>
</tr>
<tr>
<td>Organ perfusion in organ donor transplantation, supported by an unrestricted grant from Getinge</td>
<td>12 April 2019</td>
<td>08:00 - 08:45</td>
<td>Room 3</td>
</tr>
<tr>
<td>The Evolving Use of ECMO, supported by an unrestricted grant from Getinge</td>
<td>12 April 2019</td>
<td>12:00 - 13:30</td>
<td>Room 3</td>
</tr>
<tr>
<td>Modern Paradigms of Cannulation, supported by an unrestricted grant from LivaNova</td>
<td>12 April 2019</td>
<td>12:00 - 13:00</td>
<td>Room 6</td>
</tr>
<tr>
<td>Future Journey with Extra Corporeal CO2 Removal, supported by an unrestricted grant from XENIOS</td>
<td>12 April 2019</td>
<td>12:00 - 13:30</td>
<td>Room 5</td>
</tr>
<tr>
<td>Lung transplant patients requiring ECMO, supported by an unrestricted grant from Getinge</td>
<td>13 April 2019</td>
<td>08:00 - 08:45</td>
<td>Room 6</td>
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Industry Sponsored Workshop

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Performance CPR, supported by an unrestricted grant from Stryker</td>
<td>11 April 2019</td>
<td>12:15 – 13:30</td>
<td>Room 3</td>
</tr>
</tbody>
</table>
CRESCENT™
JUGULAR DUAL LUMEN CATHETER

The Crescent™ Jugular Dual Lumen long-term ECMO Catheter offers 5 sizes from 24Fr to 32Fr

CE mark for Crescent™ Dual Lumen Catheter pending in Europe at the moment that this file has been sent to print.

* Crescent™ Jugular Dual Lumen Catheter is manufactured by MC3, Inc.
Cardiohelp System
Extracorporeal life support whenever you need it

www.getinge.com

This document is intended to provide information to an international audience outside of the US.