

Wednesday, 26. April 2023*Adult Session*

13:00 - 15:00

Auditorium I

ECMO Basics / VV- and VA-ECMO Block 1*Moderator:* Dirk Donker, NL*Moderator:* Mark Kurusz, US**Physiology and technique of adult respiratory ECMO**

13:00 - 13:20

Speaker: Antonella Degani, IT**Physiology and technique of PED respiratory ECMO**

13:20 - 13:40

Speaker: Lisa Carson Price, GB**Physiology and technique of ADULT cardiac ECMO**

13:40 - 14:00

Speaker: Dirk Donker, NL**Physiology and technique of PED cardiac ECMO**

14:00 - 14:20

Speaker: Peter Roeleveld, NL**Anticoagulation strategies & management in VV- and VA-ECMO**

14:20 - 14:40

Speaker: Gennaro Martucci, IT**Peculiarities of drug metabolism on ECMO**

14:40 - 15:00

Speaker: Haifa Lyster, GB*Adult Session*

13:00 - 15:00

Auditorium II

ECMO Sim Masterclass - Block 1*Moderator:* Justyna Swol, DE*Moderator:* Valentina Obreja, US*Moderator:* Jutta Arens, NL**Introduction to ECMO Sim**

13:00 - 13:30

Speaker: Justyna Swol, DE**Practicalities/options for water drills and phantoms**

13:30 - 14:00

Speaker: Pau Torrella, ES**Cannulation Sim - percutaneous, surgical, echo guided**

14:00 - 14:30

Speaker: Wytze C. Duinmeijer, NL**Team simulations**

14:30 - 15:00

Speaker: Mateusz Puslecki, PL*Speaker:* Marek Dabrowski, PL*Adult Session*

13:00 - 15:00

Auditorium VIII

ECPR Masterclass - Basics Block 1*Moderator:* Jan Belohlávek, CZ*Moderator:* Kenneth Palmer, SE**How to interpret current evidence for ECPR?**

13:00 - 13:30

Speaker: Jan Belohlávek, CZ**ECPR for IHCA and OHCA?**

13:30 - 14:00

Speaker: Thomas Mueller, DE

Cannulation techniques in ECPR

14:00 - 14:30

Speaker: Roberto Lorusso, NL

ICU best practice management in ECPR

14:30 - 15:00

Speaker: Mirko Belliato, IT

Pediatric Session

13:00 - 15:00

Auditorium VI

Advances in pediatric ECMO Block 1

Moderator: Maura O'Callaghan, GB

Moderator: Aparna Hoskote, GB

Moderator: Francisco Abecasis, PT

Balancing thrombosis and bleeding

13:00 - 13:15

Speaker: Ariane Willems, NL

Circuit and inflammation

13:15 - 13:30

Speaker: Heidi Dalton, US

The role of coating

13:30 - 13:45

Speaker: Leen Vercaemst, BE

The bio-endothelium

13:45 - 14:00

Speaker: Gail Annich, CA

New anticoagulants

14:00 - 14:15

Speaker: Dorela Haxhiademi, IT

Decision algorithms for blood and blood administration

14:15 - 14:30

Speaker: Ravi Thiagarajan, US

Q and A with audience participation

14:30 - 15:00

Adult Session

13:00 - 15:00

Auditorium VII

Resp. Masterclass - Measures of respiratory mechanics at the bedside: From basics to advanced Block 1 - joint sessions with ESICM

Moderator: Luigi Camporota, GB

Moderator: Annemijn Jonkman, NL

Measuring mechanics in controlled ventilation

13:00 - 13:30

Speaker: Luigi Camporota, GB

Measuring mechanics in assisted ventilation

13:30 - 14:00

Speaker: Annemijn Jonkman, NL

Oesophageal Pressure in controlled and assisted ventilation

14:00 - 14:30

Speaker: Luigi Camporota, GB

Recruitability testing and PEEP setting

14:30 - 15:00

Speaker: Lise Piquilloud, CH

Pediatric Session

13:00 - 15:00

Auditorium III

Neonatal and pediatric ECMO transport Block 1*Moderator:* Chris Harvey, GB*Moderator:* Lars Mikael Broman, SE*Moderator:* Zelia Soares, PT**ECMO transport considerations in neonates**

13:00 - 13:15

Speaker: Marisa Vieira, PT**ECMO transport considerations in children**

13:15 - 13:30

Speaker: Sylvia Belda, ES**ECMO transport: Nursing considerations**

13:30 - 13:45

Speaker: Anna Lindberg, SE**The role of the cardiac surgeon in ECMO transport**

13:45 - 14:00

Speaker: Jose Neves, PT**Primary vs. secondary transport**

14:00 - 14:15

Speaker: Lars Mikael Broman, SE**Starting a mobile ECMO programme**

14:15 - 14:30

Speaker: Cristina Camilo, PT**Q and A with audience participation**

14:30 - 15:00

Teach Program / Workshop

13:00 - 18:00

Terrace

ECLS Workshop - Joint event EuroELSO & ESICM*Adult Session*

15:30 - 17:30

Auditorium I

ECMO Basics / VV- and VA-ECMO Block 2*Moderator:* Fernando Miranda, PT*Moderator:* Martin Balik, CZ*Moderator:* Antonella Degani, IT**Management, weaning and bridging in adult VV-ECMO**

15:30 - 15:50

Speaker: Nicholas Barrett, GB**Management, weaning and bridging in PED VV ECMO**

15:50 - 16:10

Speaker: Luca Marchetto, CA**Management, weaning and bridging in adult VA-ECMO**

16:10 - 16:30

Speaker: Matthieu Schmidt, FR**Management, weaning and bridging in PED VA ECMO**

16:30 - 16:50

Speaker: Jonathan Smith, GB**VV- and VA-ECMO pitfalls and troubleshooting**

16:50 - 17:10

Speaker: Martin Balik, CZ**Intra- and interhospital transport on adult and PED ECMO**

17:10 - 17:30

Speaker: Lars Mikael Broman, SE

Adult Session

15:30 - 17:30

Auditorium II

ECMO Sim Masterclass - Block 2*Moderator:* Jo-Anne Fowles, GB*Moderator:* Libera Fresiello, NL**Advanced computer simulation**

15:30 - 16:00

Speaker: Michael Broomé, SE**Simulation of blood and gas exchange**

16:00 - 16:30

Speaker: Marc Dickstein, US**Scenario writing, controlling scenarios**

16:30 - 17:00

Speaker: Mirjana Cvetkovic, GB**CRM - Critical aspects of debriefing**

17:00 - 17:30

Speaker: Marek Dabrowski, PL*Adult Session*

15:30 - 17:30

Auditorium VIII

ECPR Masterclass - Challenges*Moderator:* Demetris Yannopoulos, US*Moderator:* Simon Finney, GB**How to settle the optimal strategy for patient selection?**

15:30 - 16:00

Speaker: Simon Finney, GB**ECPR - a realistic bridge to MCS or heart transplant?**

16:00 - 16:30

Speaker: Darryl Abrams, US**Organ donation after ECPR - opportunity or ethical dilemma?**

16:30 - 17:00

Speaker: Fabio Taccone, BE**Can ECPR really be a cost-effective?**

17:00 - 17:30

Speaker: Annemieke Oude Lansink-Hartgring, NL*Pediatric Session*

15:30 - 17:30

Auditorium VI

Advances in pediatric ECMO Block 2*Moderator:* Robert Jan Houmes, NL*Moderator:* Rafael Marques, PT**Is there a role for prone position in pediatric ECMO?**

15:30 - 16:00

Speaker: Robert Jan Houmes, NL**Early mobilization during ECMO and VADs**

16:00 - 16:30

Speaker: Emma Shkurka, GB**Perfluorocarbon...beyond liquid ventilation**

16:30 - 16:45

Speaker: Matteo Di Nardo, IT**Tracheostomy in pediatric ECMO**

16:45 - 17:00

Speaker: Ryan Barbaro, US**Round-table discussion on key parameters for recovery in respiratory ECMO**

17:00 - 17:30

Adult Session

15:30 - 17:30

Auditorium VII

Resp. Masterclass - Measures of respiratory mechanics at the bedside: From basics to advanced Block 2 - joint sessions with ESICM*Moderator:* Lise Piquilloud, CH*Moderator:* Annemijn Jonkman, NL**Monitoring Patient-Ventilator Interactions**

15:30 - 16:00

Speaker: Luigi Camporota, GB**Optimising assisted ventilation: Solutions in conventional and proportional ventilation**

16:00 - 16:30

Speaker: Lise Piquilloud, CH**Ventilation in ARDS: Case-based discussion**

16:30 - 17:00

Speaker: Luigi Camporota, GB**Ventilation in COPD: Case-based discussion**

17:00 - 17:30

Speaker: Annemijn Jonkman, NL*Pediatric Session*

15:30 - 17:30

Auditorium III

Neonatal and pediatric ECMO transport Block 2*Moderator:* Lisa Carson Price, GB*Moderator:* Francisco Abecasis, PT*Moderator:* Anna Lindberg, SE**Ground transport**

15:30 - 16:00

Speaker: Francisco Abecasis, PT**Helicopter transport**

16:00 - 16:30

Speaker: Mark Davidson, GB**Fixed wings transport**

16:30 - 17:00

Speaker: Andrea Moscatelli, IT**Troubleshooting during mobile ECMO**

17:00 - 17:30

Speaker: Chris Harvey, GB

Thursday, 27. April 2023*Adult Session*

08:30 - 10:00

Auditorium I

ECMO Basics / more in depth VV- and VA-ECMO Block 3*Moderator:* Birgit Heinze, DE*Moderator:* Lisa Carson Price, GB*Moderator:* Nicholas Barrett, GB**Evidence for ECMO in respiratory failure**

08:30 - 09:00

Speaker: Thomas Mueller, DE**Evidence for ECMO in cardio-circulatory failure**

09:00 - 09:30

Speaker: Alain Combes, FR**Infections and inflammatory responses in ECMO**

09:30 - 10:00

Speaker: Andrew Retter, GB*Adult Session*

08:30 - 10:00

Auditorium II

ECMO Sim Masterclass - Block 3*Moderator:* Mirko Belliato, IT*Moderator:* Monika Tukacs, US**The simulators available - functions and critical review**

08:30 - 09:00

Speaker: Wytze C. Duinmeijer, NL**Complex hemodynamics understood through simulation**

09:00 - 09:30

Speaker: Marc Dickstein, US**Non-educational simulation tools for ECMO devices**

09:30 - 10:00

Speaker: Alessandro Caimi, IT*Adult Session*

08:30 - 10:00

Auditorium VIII

ECPR Masterclass - Basics Block 3*Moderator:* Jan Belohlávek, CZ*Moderator:* Chirine Mossadegh, FR**How to start an ECPR programme?**

08:30 - 09:00

Speaker: Simon Finney, GB**How to cherish the hospital ECPR programme**

09:00 - 09:30

Speaker: Demetris Yannopoulos, US**How to design the perfect ECPR trial?**

09:30 - 10:00

Speaker: Jan Belohlávek, CZ*Pediatric Session*

08:30 - 10:30

Auditorium VI

Neonatal and pediatric ECMO transport Block 3*Moderator:* Marisa Vieira, PT*Moderator:* Mirjana Cvetkovic, GB*Moderator:* Rafael Marques, PT**Hands on**

08:30 - 10:30

Adult Session

08:30 - 10:00

Auditorium VII

ER, ICU, Cathlab and/or Masterclass - VA-ECMO Block 1*Moderator:* Daniel Rob, CZ*Moderator:* Mark Kurusz, US*Moderator:* Christiaan Lucas Meuwese, NL**Cardiogenic shock - when to consider ECMO?**

08:30 - 09:00

Speaker: Benedikt Schrage, DE**Post-cardiotomy VA-ECMO - liberal or restrictive use?**

09:00 - 09:30

Speaker: Prakash Punjabi, GB**Periprocedural ECMO - classical indications and beyond**

09:30 - 10:00

Speaker: Daniel Rob, CZ*Pediatric Session*

08:30 - 10:30

Auditorium III

Challenges in pediatric ECMO*Moderator:* Aparna Hoskote, GB*Moderator:* Robert Jan Houmes, NL*Moderator:* Zelia Soares, PT**ECMO in high risk CDH**

08:30 - 08:45

Speaker: Neysan Rafat, DE**Pulmonary haemorrhage on ECMO**

08:45 - 09:00

Speaker: Matteo Di Nardo, IT**How long is too long?**

09:00 - 09:15

Speaker: Gail Annich, CA**ECMO in trauma**

09:15 - 09:30

Speaker: Mark Davidson, GB**Systemic infection during ECMO**

09:30 - 10:00

Speaker: Thomas Brogan, US**Challenging cases in pediatric ECMO**

10:00 - 10:30

Teach Program / Workshop

09:00 - 12:00

Terrace

ECLS Workshop - Joint event EuroELSO & ESICM*Adult Session*

10:30 - 11:30

Auditorium I

ECMO Basics / more in depth VV- and VA-ECMO Block 4*Moderator:* Kenneth Palmer, SE*Moderator:* Martin Balik, CZ*Moderator:* Monika Tukacs, US**CRRT and plasmapheresis during ECMO**

10:30 - 10:50

Speaker: Laura Bowden, GB**Neuroprotection and monitoring during ECMO**

10:50 - 11:10

Speaker: Philip Fortuna, PT**Mobilization, rehabilitation and long-term outcome**

11:10 - 11:30

Speaker: Mehtap Pehlivanlar Kucuk, TR

Adult Session

10:30 - 11:30

Auditorium II

ECMO Sim Masterclass - Block 4

Moderator: Justyna Swol, DE

Moderator: Chirine Mossadegh, FR

How to train the nursing team in simulation?

10:30 - 10:50

Speaker: Valentina Obreja, US

What is the proven clinical benefit of ECMO SIM?

10:50 - 11:10

Speaker: Justyna Swol, DE

How I would set up a modern ECMO SIM program

11:10 - 11:30

Speaker: Chirine Mossadegh, FR

Adult Session

10:30 - 11:30

Auditorium VIII

ECPR Masterclass - Basics Block 4

Moderator: Demetris Yannopoulos, US

Moderator: Sona Wulczynska, CZ

Neuroprognostication - current practice & future perspectives

10:30 - 10:50

Speaker: Mirko Belliato, IT

Sufficient evidence on long-term outcome after ECPR?

10:50 - 11:10

Speaker: Fabio Taccone, BE

Future challenges and ethical dilemmas in ECPR

11:10 - 11:30

Speaker: Darryl Abrams, US

Adult Session

10:30 - 11:30

Auditorium VII

ER, ICU, Cathlab and/or Masterclass - VA-ECMO Block 2

Moderator: Roberto Lorusso, NL

Moderator: Leen Vercaemst, BE

LV unloading - critical appraisal of rationale and evidence

10:30 - 10:50

Speaker: Dirk Donker, NL

Right ventricular support - ECMO/TCS - when, what, why?

10:50 - 11:10

Speaker: Marc Maybauer, US

VA-ECMO in the elderly - do no further harm!

11:10 - 11:30

Speaker: Thomas Mueller, DE

Pediatric Session

10:45 - 12:00

Auditorium VI

Neonatal and pediatric ECMO transport Block 4

Moderator: Marisa Vieira, PT

Moderator: Rafael Marques, PT

Moderator: Mirjana Cvetkovic, GB

Hands on

10:45 - 12:00

Pediatric Session

10:45 - 12:00

Auditorium III

What's new in pediatric ECMO?*Moderator:* Matteo Di Nardo, IT*Moderator:* Maura O'Callaghan, GB*Moderator:* Jonathan Smith, GB**Updates on therapeutic drug monitoring**

10:45 - 11:05

Speaker: Enno Wildschut, NL**ARDS and stem cell: Facts or fiction**

11:05 - 11:25

Speaker: Pietro Merli, IT**Advances in mechanical circulatory support**

11:25 - 11:45

Speaker: Katharina Schmitt, DE*Industry*

12:00 - 13:00

Auditorium I

Industry Symposium 1*Industry*

12:00 - 13:00

Auditorium II

Industry Symposium 2*Industry*

13:00 - 13:45

Auditorium VI

Industry Symposium 3*Industry*

13:00 - 13:45

Auditorium VII

Industry Symposium 4*Plenary Session*

13:45 - 14:45

Auditorium I

Opening Ceremony EuroELSO 2023*Moderator:* Jonathan Smith, GB**Welcome address - Congress Chair**

13:45 - 13:51

Speaker: Jonathan Smith, GB**Welcome address - ELSO & EuroELSO Chair**

13:51 - 14:05

Speaker: Graeme MacLaren, SG*Speaker:* Nicholas Barrett, GB**Year in review - 2022/ 2023 highlights in pediatric ECMO**

14:05 - 14:13

Speaker: Matteo Di Nardo, IT**Year in review - 2022/ 2023 highlights in adult ECMO**

14:13 - 14:21

Speaker: Matthieu Schmidt, FR**Year in review - 2022/ 2023 highlights in nursing ECMO**

14:21 - 14:29

Speaker: Jo-Anne Fowles, GB**Year in review - 2022/ 2023 highlights in innovation and technology**

14:29 - 14:37

<i>Speaker:</i> Leen Vercaemst, BE	
EuroELSO Working Groups, Surveys & Grants - an outlook	14:37 - 14:45
<i>Speaker:</i> Nicholas Barrett, GB	
<i>Plenary Session</i>	
14:45 - 15:45	
Auditorium I	
Care for caregivers	
<i>Moderator:</i> Nicholas Barrett, GB	
<i>Moderator:</i> Jo-Anne Fowles, GB	
<i>Moderator:</i> Leen Vercaemst, BE	
How to prevent burnout?	14:45 - 15:00
<i>Speaker:</i> Sona Wulczynska, CZ	
Doing the same with less - managing the ECMO nursing team	15:00 - 15:15
<i>Speaker:</i> Gemma Björndahl, SE	
<i>Speaker:</i> Henrik Bucht, SE	
Care for caregivers	15:15 - 15:45
<i>Key Note Speaker:</i> Natalia Psajd, SE	
<i>Breaks</i>	
15:45 - 16:15	
Poster walk	
Coffee break in the exhibition area	
<i>Adult Session</i>	
16:15 - 18:00	
Auditorium I	
Adult Cardiac - state of the art in acute HF - Joint session with Association for Acute CardioVascular Care (ACVC) of the ESC	
<i>Moderator:</i> Sona Wulczynska, CZ	
<i>Moderator:</i> Libera Fresiello, NL	
<i>Moderator:</i> Susanna Price, GB	
Early ECMO in acute coronary syndrome: Pro	16:15 - 16:30
<i>Speaker:</i> Benedikt Schrage, DE	
Early ECMO in acute coronary syndrome: Con	16:30 - 16:45
<i>Speaker:</i> Jan Belohlávek, CZ	
ECMO for post-cardiotomy cardiogenic shock	16:45 - 17:00
<i>Speaker:</i> Roberto Lorusso, NL	
ECMO for septic cardiomyopathy	17:00 - 17:15
<i>Speaker:</i> Nicolas Bréchet, FR	
ECMO for fulminant myocarditis	17:15 - 17:30
<i>Speaker:</i> Santiago Montero, ES	
Periprocedural ECMO in the cathlab	17:30 - 17:45
<i>Speaker:</i> Kurt Huber, AT	
Blood Management During ECMO for Cardiac Support (OBLEX)	17:45 - 18:00
<i>Speaker:</i> Hergen Buscher, AU	

Technology and innovation

16:15 - 18:15

Auditorium II

What's new in ...?*Moderator:* Lars Mikael Broman, SE*Moderator:* Velia Antonini, IT*Moderator:* Jutta Arens, NL**What's new in cannula design?**

16:15 - 16:30

Speaker: Andrew Stephens, AU**What's new in pump design?**

16:30 - 16:45

Speaker: Sebastian Jansen, DE**What's new in oxygenator design?**

16:45 - 17:00

Speaker: Jutta Arens, NL

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Novel cannulation strategy with a bidirectional cannula for optimizing distal limb perfusion during peripheral veno-arterial extracorporeal membrane oxygenation: A preliminary, single-centre experience

17:00 - 17:15

Speaker: Jorik Simons, NL**What's new in ECMO mobility and transport?**

17:15 - 17:30

Speaker: Lars Mikael Broman, SE**What's new in ECMO technology in pediatric ECMO?**

17:30 - 17:45

Speaker: Matthew Paden, US**Technological advances in ECMO - the expert's translational perspective**

17:45 - 18:00

Speaker: Maximilian Malfertheiner, DE*Pediatric Session*

16:15 - 18:15

Auditorium VI

Pediatric ECMO - candidacy for ECMO*Moderator:* Mark Davidson, GB*Moderator:* Antonella Degani, IT*Moderator:* Zelia Soares, PT**ECMO candidacy in 2022**

16:15 - 16:30

Speaker: Heidi Dalton, US**Pushing boundaries in neonatal ECMO: When low is too low**

16:30 - 16:45

Speaker: Marisa Vieira, PT**When to say no to second ECMO run in cardiac ECMO?**

16:45 - 17:00

Speaker: Giles Peek, US**When do you say no to second ECMO run in respiratory ECMO?**

17:00 - 17:15

Speaker: Enno Wildschut, NL

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Modern indications for neonatal respiratory ECMO: The others

17:15 - 17:30

Speaker: Sarah Keene, US**When to say no to ECPR?**

17:30 - 17:45

Speaker: Malaika Mendonca, CH**ECMO candidacy in liver failure**

17:45 - 18:00

Speaker: Tas Pirani, GB

Decision support when differences of opinion on candidacy? 18:00 - 18:15

Speaker: Thomas Brogan, US

Adult Session

16:15 - 18:15

Auditorium VII

Adult Respiratory - ARDS - ECMO/ECCO2R - joint session with ESICM

Moderator: Chirine Mossadegh, FR

Moderator: Leen Vercaemst, BE

Moderator: Nicholas Barrett, GB

ECMO for COVID ARDS vs. non COVID ARDS

16:15 - 16:30

Speaker: Roberto Lorusso, NL

How to individualize mechanical ventilation on VV ECMO/ ECCO2R?

16:30 - 16:45

Speaker: Lise Piquilloud, CH

Do transfusion thresholds matter when on VV-ECMO (PROTECMO)?

16:45 - 17:00

Speaker: Gennaro Martucci, IT

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Long-term functional outcome of severe COVID-19 pneumonia treated with venovenous extracorporeal membrane oxygenation support - learnings from a single centre

17:00 - 17:15

Speaker: Ana Rita Rodrigues, PT

How to further improve respiratory ECMO outcomes?

17:15 - 17:30

Speaker: Matthieu Schmidt, FR

ECCO2R - a solution for a problem?

17:30 - 17:45

Speaker: Eddy Fan, CA

Prolonged VV ECMO/ ECCO2R support - how long is long enough?

17:45 - 18:00

Speaker: Peter Schellongowski, AT

The ESICM ARDS guidelines

18:00 - 18:15

Speaker: Luigi Camporota, GB

Industry

18:15 - 19:00

Auditorium I

Industry Afternoon Symposium 1

Friday, 28. April 2023*Industry*

07:45 - 08:30

Auditorium II

Breakfast Symposium 2*Adult Session*

08:30 - 10:00

Auditorium I

Proning in Adult ECMO*Moderator:* Konstanty Szuldrzynski, PL*Moderator:* Matthieu Schmidt, FR*Moderator:* Jo-Anne Fowles, GB**The complex mechanistic rationale of proning during VV ECMO**

08:30 - 08:45

Speaker: Christian Karagiannidis, DE**Proning on ECMO - best nursing practice and pitfalls**

08:45 - 09:00

Speaker: Birgit Heinze, DE

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Long-term support of COVID-19 patients with veno-venous extracorporeal membrane oxygenation: Complications, predictors of mortality and long-term outcome

09:00 - 09:15

Speaker: Clemens Wiest, DE**Early proning on ECMO - PRO**

09:15 - 09:30

Speaker: Matthieu Schmidt, FR**Early proning on ECMO - CON**

09:30 - 09:45

Speaker: Jordi Riera, ES**Round-table discussion**

09:45 - 10:00

Pediatric Session

08:30 - 10:00

Auditorium VIII

Pediatric ECMO - optimising outcome*Moderator:* Robert Jan Houmes, NL**Optimising outcomes VV-ECMO**

08:30 - 08:45

Speaker: Ryan Barbaro, US**Optimising outcomes VA-ECMO**

08:45 - 09:00

Speaker: Ravi Thiagarajan, US

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Change in pSOFA Score as a Novel Outcome for Pediatric ECMO Research

09:00 - 09:15

Speaker: Peta Alexander, US**Optimising outcomes ECPR**

09:15 - 09:30

Speaker: Peter Roeleveld, NL**Optimising outcomes CDH**

09:30 - 09:45

Speaker: Neysan Rafat, DE**Round-table discussion - collaboration to improve overall outcomes**

09:45 - 10:00

Pediatric Session

08:30 - 10:00

Auditorium VI

Pediatric ECMO - protecting the kidneys*Moderator:* Jana Assy, BE*Moderator:* Angelo Polito, CH**Pathophysiology of AKI**

08:30 - 08:45

Speaker: Matthew Paden, US**AKI - diuretics vs. early CRRT**

08:45 - 09:00

Speaker: Cristina Camilo, PT

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Carbon dioxide derived parameters during cardiopulmonary bypass predict acute kidney injury after pediatric cardiac surgery

09:00 - 09:15

Modes of delivering CVVH

09:15 - 09:30

Speaker: Angelo Polito, CH**How to maintain CRRT circuit lifespan during ECMO: Heparin vs. DTI or both**

09:30 - 09:45

Speaker: Matthew Paden, US**Round-table discussion**

09:45 - 10:00

Adult Session

08:30 - 10:00

Auditorium VII

ECMO for cardiogenic shock*Moderator:* Monika Tukacs, US*Moderator:* Alain Combes, FR*Moderator:* Libera Fresiello, NL**Do different stages of cardiogenic shock need different devices?**

08:30 - 08:45

Speaker: Jan Belohlávek, CZ**More evolving evidence on ECMO in cardiogenic shock**

08:45 - 09:00

Speaker: Alain Combes, FR

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V-A ECMO as a bridge to surgery in patients with post-infarction mechanical complications: Results from the CAUTION study

09:00 - 09:15

Speaker: Matteo Matteucci, IT**LV unloading in ECMO - pro**

09:15 - 09:30

Speaker: Dirk Donker, NL**LV unloading in ECMO - con**

09:30 - 09:45

Speaker: Roberto Lorusso, NL**Round-table discussion**

09:45 - 10:00

Technology and innovation

08:45 - 10:00

Auditorium II

Advanced data processing and clinical trial design*Moderator:* Graeme MacLaren, SG*Moderator:* Darryl Abrams, US*Moderator:* Fabio Taccone, BE

	What to expect from AI, big data & machine learning?	08:45 - 09:15
	<i>Speaker:</i> Andrew Stephens, AU	
193	Development of a machine learning prediction model for oxygenator replacement during veno-venous ECMO using electronic health records	09:15 - 09:30
	<i>Speaker:</i> Micha Landoll, DE	
	Adaptive platform trial initiative - VV-ECMO	09:30 - 09:45
	<i>Speaker:</i> Eddy Fan, CA	
	Adaptive platform trial initiative - VA-ECMO	09:45 - 10:00
	<i>Speaker:</i> Christiaan Lucas Meuwese, NL	
<i>Poster Session</i>		
10:00 - 11:00		Poster walk
Moderated Poster walk Adult - Cardiac failure 3 - Terminal 3		
<i>Moderator:</i> Simon Finney, GB		
<i>Moderator:</i> Dirk Westermann, DE		
244	Prognostic influence of gender in patients undergoing extracorporeal cardiopulmonary resuscitation	10:00 - 10:04
	<i>Poster Presenter:</i> Adrian Springer, DE	
247	VA ECMO for cardiogenic shock complicating acute myocardial infarction: Insights from a French nationwide database	10:04 - 10:08
	<i>Poster Presenter:</i> Matteo Pozzi, FR	
257	The impact of COVID-19 on extracorporeal cardiopulmonary resuscitation (ECPR) for out-of-hospital cardiac arrest (OHCA): A single centre study	10:08 - 10:12
	<i>Poster Presenter:</i> Takashi Sasaki, JP	
274	ECMO code in Castilla y León: Single-center experience with primary ECMO transportation and "mobile ECMO" team built by two phisicians	10:12 - 10:16
	<i>Poster Presenter:</i> Cristina Ybarra Falcón, ES	
	<i>Speaker:</i> Alexander Stepanenko, RU	
279	Fulminant myocarditis following SARS-CoV-2 mRNA vaccination rescued with venoarterial ECMO: A report of two cases	10:16 - 10:20
	<i>Poster Presenter:</i> Rosa Vila Olives, ES	
284	Contrast enhancement in the pulmonary arteries and systemic arterial circulation in computed tomography in VA-ECMO patients	10:20 - 10:24
	<i>Poster Presenter:</i> Florian Ettl, AT	
291	Management of harlequin syndrome in veno-arterial extracorporeal membrane oxygenation	10:24 - 10:28
	<i>Poster Presenter:</i> Justin Robinson, US	
308	Implementation of a multi-disciplinary response team for initiation of extracorporeal cardiopulmonary resuscitation (ECPR) in patients presenting after out of hospital cardiac arrest (OHCA)	10:28 - 10:32
	<i>Poster Presenter:</i> Sean Hickey, US	

309	Spinal cord infarction in patients supported with extracorporeal membrane oxygenation: A review of incidence, risk factors and outcomes <i>Poster Presenter:</i> Alison Zhu, AU	10:32 - 10:36
311	Radiofrequency catheter ablation with ECMO support in electrical storm patients: Single center results <i>Poster Presenter:</i> Mustafa Emre Gürcü, TR	10:36 - 10:40
330	Evaluation of an e-learning module on extra-corporeal life-support in cardiac arrest for emergency healthcare professionals in a hospital setting <i>Poster Presenter:</i> Enrico Boero, IT	10:40 - 10:44
336	ECMO supported patient outcome undergoing Trans-catheter Aortic Valve Replacement (TAVR) <i>Poster Presenter:</i> Pramod Guru, US	10:44 - 10:48
349	Extracorporeal cardiopulmonary resuscitation - prognostic impact of initial rhythm <i>Poster Presenter:</i> Eike Tigges, DE	10:48 - 10:52
<i>Poster Session</i> 10:00 - 11:00		Poster walk
Moderated Poster walk Pediatric - Other 1 - Terminal 9		
<i>Moderator:</i> Angelo Polito, CH		
85	The characterisation of protein binding in paediatric extracorporeal membrane oxygenation (ECMO) circuits using scanning electron microscopy (SEM) and proteomics <i>Poster Presenter:</i> Tengyi Cai, AU	10:00 - 10:05
93	Discrepancy between bivalirudin level and HPTT to monitor bivalirudin therapy in pediatric extracorporeal life support: Age matters <i>Poster Presenter:</i> Jun Teruya, US	10:05 - 10:10
137	The osmolality of oral liquid formulations and intolerance on ECMO patients <i>Poster Presenter:</i> Filipa Cosme, PT	10:10 - 10:15
200	Low volume is not always associated with higher mortality: The Lisbon story <i>Poster Presenter:</i> Ana Raquel Claro, PT	10:15 - 10:20
258	Usefulness of left pulmonary artery to main pulmonary artery ratio measured by echocardiography for predicting risk of death or ECMO in congenital diaphragmatic hernia <i>Poster Presenter:</i> Sunghyeon Park, KR	10:20 - 10:25
276	Blood transfusion requirements of neonates receiving Bivalirudin on ECMO as an anticoagulant <i>Poster Presenter:</i> Jamie Gilley, US	10:25 - 10:30

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Lab session-fundamental research/Nurse 1 - Terminal 4*Moderator:* Mirko Belliato, IT*Moderator:* Birgit Heinze, DE

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|-----|---|---------------|
| 92 | Von Willebrand factor fiber formation in a minimized ECMO-perfusion model - effect of N,N'-diacetyl-L-cystine
<i>Poster Presenter:</i> Alexander Jakobitz, DE | 10:00 - 10:05 |
| 112 | Viscoelastic tests may aid in identifying candidates for eCPR
<i>Poster Presenter:</i> Jan Matthias Kruse, DE | 10:05 - 10:10 |
| 510 | Watershed region tide - computational fluid dynamics simulations of the ECMO-failing heart circulation
<i>Poster Presenter:</i> Dorela Haxhiademi, IT | 10:10 - 10:15 |
| 37 | Exploring the scope of nursing practices in the care of ECMO supported patients in Israel
<i>Poster Presenter:</i> Alex Furmanov, IL | 10:15 - 10:20 |
| 72 | Training needs for ECMO nurses: Analysis, results and what's beyond.
<i>Poster Presenter:</i> Giovanni Gazzeri, IT | 10:20 - 10:25 |
| 84 | ECMO follow-up clinic at Rigshospitalet, Copenhagen. 1 out of 2 ECMO-centers in Denmark.
<i>Poster Presenter:</i> Rikke Engelbrecht Clemmensen, DK | 10:25 - 10:30 |
| 140 | A theory based introduction to the concept of psychological safety in high fidelity ECMO simulations
<i>Poster Presenter:</i> Emanuele Gerlando, GB | 10:30 - 10:35 |
| 323 | Simulation training in an experienced ECMO program
<i>Poster Presenter:</i> Anna Lindberg, SE | 10:35 - 10:40 |
| 333 | Evaluating structural training of critical care nurses in a nurse governed ECMO programme
<i>Poster Presenter:</i> Nicole Reagan, US | 10:40 - 10:45 |
| 415 | The role of ECMO nurses in weaning V-A ECMO patients with Pump-Controlled Retrograde Trial Off (PCRTO)
<i>Poster Presenter:</i> Fung Ming Lau, HK | 10:45 - 10:50 |
| 451 | Nurse perception on ECMO care: A literature review
<i>Poster Presenter:</i> Riccardo Cusmà Piccione, IT | 10:50 - 10:55 |
| 130 | Behaviour of thermodilution signals in a closed extracorporeal circuit - a bench study
<i>Poster Presenter:</i> Kaspar Felix Bachmann, CH | 10:55 - 11:00 |

Breaks

10:00 - 11:00

Poster walk

Coffee break in the exhibition area and moderated poster walk

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Cardiac failure 2 - Terminal 2

Moderator: Roberto Lorusso, NL

Moderator: Santiago Montero, ES

159	Extracorporeal resuscitation for out-of-hospital cardiac arrest: The 12-year experience of an Italian referral center. <i>Poster Presenter:</i> Silvia Delrio, IT	10:00 - 10:05
166	Predicting physiologic instability in swine ECMO model using machine learning methods <i>Poster Presenter:</i> William Teeter, US	10:05 - 10:10
167	Mechanical circulatory support to improve end organ function before post-myocardial infarct ventricular septal defect closure <i>Poster Presenter:</i> Stephen Stachnik, US	10:10 - 10:15
169	The dynamic role of rehabilitating a patient with biventricular assist device implantation - a case report <i>Poster Presenter:</i> Catarina C. Morais, PT	10:15 - 10:20
175	ECPella 5.0 - can we further improve outcomes? <i>Poster Presenter:</i> NICOLETTA D'ETTORE, IT	10:20 - 10:25
203	V-A ECMO supported high-risk PCI. Case-control study <i>Poster Presenter:</i> Akram Mohamed Abdelbary Ismail, EG	10:25 - 10:30
212	DIC score is associated with short-term mortality in patients undergoing VA-ECMO after cardiac surgery <i>Poster Presenter:</i> liangshan wang, CN	10:30 - 10:35
214	A review of cardiac arrest team activations for patients undergoing mechanical circulatory support <i>Poster Presenter:</i> Dominic Lowcock, GB	10:35 - 10:40
218	Lactate levels for prognostication of short-term outcomes for patients on Veno-Arterial extracorporeal membrane oxygenation therapy (VA-ECMO) for cardiogenic shock: Review article <i>Poster Presenter:</i> Nsisongabasi Akpan, GB	10:40 - 10:45
225	Possible positive effect of plasma bilirubin on refractory out-of-hospital cardiac arrest outcome <i>Poster Presenter:</i> Jan Pudil, CZ	10:45 - 10:50
231	Relation between severe shock and vitamin D levels in post-resuscitation survivors requiring extracorporeal membrane oxygenation (ECMO) <i>Poster Presenter:</i> Jin Wi, KR	10:50 - 10:55
223	Refractory circulatory failure in COVID-19 patients treated with veno-arterial ECMO: A retrospective single-center experience <i>Poster Presenter:</i> Clemens Wiest, DE	10:55 - 11:00

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Respiratory failure 2 - Terminal 7

Moderator: Nicholas Barrett, GB

Moderator: Darryl Abrams, US

190	Subphenotypes of severe ARDS patients on vv-ECMO based on early trends of respiratory system compliance <i>Poster Presenter: Alessio Caccioppola, IT</i>	10:00 - 10:05
213	Pneumothorax in patients with ARDS requiring V-V ECMO <i>Poster Presenter: shu utsumi, JP</i>	10:05 - 10:10
216	Single centre, cross-sectional assessment of airway hemorrhage in a cohort of patients with COVID-19-associated ARDS under Venovenous extracorporeal membrane oxygenation <i>Poster Presenter: Sara Cameira Croca, PT</i>	10:10 - 10:15
221	Differences in nosocomial infections in patients on VV-ECMO for COVID-19 and influenza <i>Poster Presenter: Clemens Wiest, DE</i>	10:15 - 10:20
230	VV-ECMO in critical COVID-19 obese patients <i>Poster Presenter: Joana Nogueira, PT</i>	10:20 - 10:25
233	Lung re-transplantation for COVID-19 related respiratory failure: A case report <i>Poster Presenter: Hyoungh Soo Kim, KR</i>	10:25 - 10:30
236	Medical intensivist directed VV ECMO cannulation for the facilitation of tracheostomy in a patient with severe tracheal stenosis: A case report <i>Poster Presenter: Gage Stuntz, US</i>	10:30 - 10:35
248	Non-Intensive care unit feasibility for ambulatory venovenous extracorporeal membrane oxygenation patients <i>Poster Presenter: Aakash Shah, US</i>	10:35 - 10:40
269	Clinical characteristics, complications, and outcomes of severe COVID-19 ARDS patients supported by ECMO and triaged for lung transplantations. <i>Poster Presenter: Pramod Guru, US</i>	10:40 - 10:45
301	The feasibility of hybrid ECMO in cardiopulmonary failure: A single-center experience <i>Poster Presenter: dohyung Kim, KR</i>	10:45 - 10:50
303	ECMO-COVID offer and global mortality: Where does Portugal stand? <i>Poster Presenter: Rita Cruz, PT</i>	10:50 - 10:55
312	Early prone positioning under VV-ECMO in SARS-CoV-2-induced acute respiratory distress syndrome - a retrospective cohort study <i>Poster Presenter: Yoshihiro Hagiwara, JP</i>	10:55 - 11:00

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Respiratory failure 1 - Terminal 6

Moderator: Thomas Mueller, DE

Moderator: Lars Mikael Broman, SE

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|-----|---|---------------|
| 25 | Extracorporeal membrane oxygenation in adult burn care
<i>Poster Presenter:</i> Marc Maybauer, US | 10:00 - 10:05 |
| 114 | Successful ECMO course in an Acquired Immune Deficiency Syndrome (AIDS) patient with ARDS complicated by pneumocystis jirovecii pneumonia and COVID-19: A unique case
<i>Poster Presenter:</i> Joaquim S Tavares, US | 10:05 - 10:10 |
| 124 | Echocardiographic findings in critically ill patients with COVID-19 treated with and without extracorporeal membrane oxygenation
<i>Poster Presenter:</i> Diana Morales Castro, CA | 10:10 - 10:15 |
| 127 | Successful Inter-Professional Team (IPT) collaboration in the care of peripartum women with COVID-19 on Extracorporeal Membrane Oxygenation (ECMO)
<i>Poster Presenter:</i> Weiting Chen, US | 10:15 - 10:20 |
| 132 | Defining health states to assess the cost-effectiveness of interventions in laryngectomized patients
<i>Speaker:</i> Ignacio Romo, ES | 10:20 - 10:25 |
| 143 | Prolonged unconsciousness in severe COVID-19 infection with veno-venous ECMO support
<i>Poster Presenter:</i> Leena Ramadan, US | 10:25 - 10:30 |
| 172 | Lung and serum immune monitoring during acute lung injury supported with VV-ECMO - a malaria-ARDS case supporting feasibility
<i>Poster Presenter:</i> Maria Adao-Serrano, PT | 10:30 - 10:35 |
| 180 | Analysis of long run VV-ECMO runs based on variation in sweep gas flow: A case series
<i>Poster Presenter:</i> Gage Stuntz, US | 10:35 - 10:40 |
| 186 | Purulent oxygenator - infected thrombosis causing venovenous extracorporeal membrane oxygenation dysfunction in a patient with chronic thromboembolic pulmonary hypertension
<i>Poster Presenter:</i> Jeremy Grate, US
<i>Poster Presenter:</i> Sagar Dave, US | 10:40 - 10:45 |
| 17 | The ProtekDuo in ECMO configuration for ARDS secondary to COVID-19 - a systematic review
<i>Poster Presenter:</i> Marc Maybauer, US | 10:45 - 10:50 |

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Perfusion 1 - Terminal 5

Moderator: Leen Vercaemst, BE

Moderator: Lisa Carson Price, GB

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| 45 | Mortality on extracorporeal membrane oxygenation: | 10:00 - 10:05 |
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	Evaluation of independent risk factors and causes of death comparing venoarterial and venovenous support <i>Poster Presenter:</i> Andrea Stadlbauer, DE	
173	Which is the optimal method for an intra-hospital ECMO transport? Single center experience <i>Poster Presenter:</i> MAURO RENGHINI, IT	10:05 - 10:10
211	Is it safe to maintain a pre-primed ECMO circuit? <i>Poster Presenter:</i> DEBORA MADDINELLI, IT	10:10 - 10:15
342	Pre-primed ECMO in a clinical setting <i>Poster Presenter:</i> Daniel Bengtsson, SE	10:15 - 10:20
435	Smaller arterial cannula diameter in venoarterial ECMO has equivalent indexed blood flow without increased haemolysis: A single centre, retrospective cohort study <i>Poster Presenter:</i> Patrick Joyce, AU	10:20 - 10:25
441	Case report: The use of ECPPELLA in a refractory cardiogenic shock after complex coronary artery bypass graft surgery <i>Poster Presenter:</i> Guilherme Alves, PT	10:25 - 10:30
260	Critical leg ischemia contralateral to arterial canula site in patients with peripheral VA-ECMO: Incidence, mechanism and challenges of treatment <i>Poster Presenter:</i> Cristina Ybarra Falcón, ES <i>Speaker:</i> Alexander Stepanenko, RU	10:30 - 10:35
<i>Poster Session</i> 10:00 - 11:00		Poster walk
Moderated Poster walk 10:00		
<i>Poster Session</i> 10:00 - 11:00		Poster walk
Moderated Poster walk Pediatric - Cardiac failure/Nurse 1 - Terminal 8		
<i>Moderator:</i> Peter Roeleveld, NL <i>Moderator:</i> Maura O'Callaghan, GB		
53	The criteria affecting survival rates of pediatric extracorporeal membrane oxygenation: Single center experience <i>Poster Presenter:</i> Nur Dikmen, TR	10:00 - 10:05
484	The use of extracorporeal membrane oxygenation after arterial switch operation in neonates with d-transposition of the great arteries, an ELSO registry report. <i>Poster Presenter:</i> Lena Koers, NL	10:05 - 10:10
487	The use of pre-operative extracorporeal membrane oxygenation in neonates with d-transposition of the great arteries, an ELSO registry report. <i>Poster Presenter:</i> Lena Koers, NL	10:10 - 10:15
502	ECMO in acute fulminant myocarditis in pediatrics <i>Poster Presenter:</i> Sylvia Belda Hofheinz, ES	10:15 - 10:20
390	Nursing care of an adolescent with pulmonary tuberculosis	10:20 - 10:25

	on prolonged veno-venous extracorporeal membrane oxygenation	
	<i>Poster Presenter:</i> Carlos Alberto Monteiro, PT	
511	A nursing care challenge: "Zero Pressure Ulcer" in children on extracorporeal membrane oxygenation (ECMO)	10:25 - 10:30
	<i>Poster Presenter:</i> Marta Pinto, PT	
512	Implementation of an electronic nursing assessment checklist: A pathway for preventing and detecting ECMO-associated complications in a Portuguese pediatric referral centre	10:30 - 10:35
	<i>Poster Presenter:</i> Rafael Marques, PT	
<i>Poster Session</i>		
10:00 - 11:00		Poster walk
Moderated Poster walk Pediatric - Quality Improvement 1 - Terminal 10		
<i>Moderator:</i> Matthew Paden, US		
22	Safety and efficacy of a fixed versus variable weight-based concentration of heparin infusions in neonatal respiratory ECMO	10:00 - 10:06
	<i>Poster Presenter:</i> Shambhavi Tewary, GB	
55	A survey of current pediatric extracorporeal cardiopulmonary resuscitation (ECPR) practices in the USA.	10:06 - 10:12
	<i>Poster Presenter:</i> Johanna Sehloff, US	
354	Anti-Xa-guided versus time-guided anticoagulation management in pediatric extracorporeal membrane oxygenation	10:12 - 10:18
	<i>Poster Presenter:</i> Mirte Jansens, NL	
397	Restoring quality of an ECMO education programme from the aftermath of COVID-19 pandemic: Preliminary results from a continuous quality improvement process	10:18 - 10:24
	<i>Poster Presenter:</i> Monika Tukacs, US	
414	Review of threshold-based blood product usage in paediatric ECMO patients in a tertiary paediatric intensive care unit in the United Kingdom	10:24 - 10:30
	<i>Poster Presenter:</i> Gokul Ramanathan, GB	
422	Vascular integrity in survivors of pediatric ECMO	10:30 - 10:36
	<i>Poster Presenter:</i> Luca Marchetto, CA	
478	Anticoagulation monitoring during pediatric ECMO - which is the best method?	10:36 - 10:42
	<i>Poster Presenter:</i> Francisco Abecasis, PT	
509	Primary ECMO transport in Spain. Is a national program necessary? Experience of three centers	10:42 - 10:48
	<i>Poster Presenter:</i> Antonio Morales-Martinez, ES	

Poster Session

10:00 - 11:00

Poster walk

Moderated Poster walk Adult - Cardiac failure 1 - Terminal 1

Moderator: Alain Combes, FR

Moderator: Christiaan Lucas Meuwese, NL

12	The ProtekDuo for acute right heart failure in thyrotoxicosis <i>Poster Presenter:</i> Marc Maybauer, US	10:00 - 10:04
410	The ProtekDuo as drainage cannula in venopulmonary-arterial (VP-A) ECMO configuration for circulatory shock <i>Poster Presenter:</i> Marc Maybauer, US	10:04 - 10:08
31	Characteristics and predictors of mortality among acutely poisoned adults in the US receiving veno-arterial extracorporeal membrane oxygen support: A retrospective study from 2003-2019 <i>Poster Presenter:</i> Zachary Rogers, US	10:08 - 10:12
40	V-AV ECMO for venous air embolism with cardiopulmonary failure <i>Poster Presenter:</i> Amanda Curry, MD, US	10:12 - 10:16
54	The safety of discontinuing heparin in patients with venoarterial ECMO <i>Poster Presenter:</i> Hyoungh Woo Chang, KR	10:16 - 10:20
62	Pitfalls of six months mechanical support with VA-ECMO, impella and ECMELLA as a bridge to cardiac transplantation <i>Poster Presenter:</i> Andrea Stadlbauer, DE	10:20 - 10:24
98	Postcardiotomy ECLS - worth the effort? <i>Poster Presenter:</i> Asen Petrov, DE	10:24 - 10:28
115	Infections during veno-arterial ECMO support <i>Poster Presenter:</i> Ramon Aranda, ES	10:28 - 10:32
118	Introduction and justification of the extracorporeal cardiopulmonary resuscitation beneficence score (EBS) <i>Poster Presenter:</i> Grace Carey, US	10:32 - 10:36
120	Thrombocytopenia, hemorrhage, and platelet transfusion in VA ECMO: A complicated trinity <i>Poster Presenter:</i> Jorinde Raasveld, NL	10:36 - 10:40
131	Investigations of differential hypoxemia during venoarterial membrane oxygenation with and without impella support. <i>Poster Presenter:</i> Michael Neidlin, DE	10:40 - 10:44
146	Implementation of structured eCPR programme to improve outcomes in a specialist hospital in the United Kingdom <i>Poster Presenter:</i> Waqas Akhtar, GB	10:44 - 10:48
147	Hypoalbuminemia is associated with increased mortality in patients on Extracorporeal Membrane Oxygenation (ECMO) therapy <i>Poster Presenter:</i> Katherine Raja, US	10:48 - 10:52

Plenary Session

11:00 - 12:30

Auditorium I

Ethics in ECMO*Moderator:* Jonathan Smith, GB*Moderator:* Francisco Abecasis, PT**Ethics in ECMO - the clinicians challenges**

11:00 - 11:22

Speaker: Michael Broomé, SE**Ethics in ECMO - what literature has argued**

11:22 - 11:44

Speaker: Alexandra Schou, DK**Ethics in ECMO - the ethics behind and the role of ethical committees**

11:44 - 12:06

Speaker: Joe Brierley, GB**Ethics in ECMO**

12:06 - 12:28

Speaker: Graeme MacLaren, SG*Industry*

12:45 - 13:45

Auditorium I

Industry Symposium 5*Industry*

12:45 - 13:45

Auditorium II

Industry Symposium 6*Industry*

12:45 - 13:45

Auditorium VI

Industry Symposium 7*Adult Session*

14:00 - 16:00

Auditorium I

Inflammation and coagulation*Moderator:* Fernando Miranda, PT*Moderator:* Christophe Vandenbriele, BE*Moderator:* Filip De Somer, BE**Therapeutic anticoagulation**

14:00 - 14:15

Speaker: Christophe Vandenbriele, BE**Prophylactic anticoagulation and thrombocyte aggregation inhibition**

14:15 - 14:30

Speaker: Gennaro Martucci, IT

401

Heparin monitoring during ImpellaTM-support for cardiogenic shock: The benefit of parallel testing

14:30 - 14:45

Speaker: Charlotte Van Edom, BE**Hemoadsorption devices - pro**

14:45 - 15:00

Speaker: Mirko Belliato, IT**Hemoadsorption devices - con**

15:00 - 15:15

Speaker: Alexander Supady, DE**Evolving models of immunothrombosis**

15:15 - 15:30

	<i>Speaker:</i> Andrew Retter, GB	
	Role of anti-inflammatory drugs	15:30 - 15:45
	<i>Speaker:</i> Roberto Roncon-Albuquerque, PT	
	Round-table discussion	15:45 - 16:00
	<i>Technology and innovation</i>	
	14:00 - 16:00	Auditorium II
	Simulation and data integration	
	<i>Moderator:</i> Libera Fresiello, NL	
	<i>Moderator:</i> Marc Dickstein, US	
	<i>Moderator:</i> Christian Karagiannidis, DE	
	Deficits in clinical ECMO management - the nursing perspective	14:00 - 14:15
	<i>Speaker:</i> Chirine Mossadegh, FR	
	Deficits in modern ECMO management - the medical perspective	14:15 - 14:30
	<i>Speaker:</i> Maximilian Malferttheiner, DE	
232	Combining information technology and human research efforts to lessen personnel burden and costs: One success story	14:30 - 14:45
	<i>Speaker:</i> Heidi Dalton, US	
	Computer simulation in TCS/ECMO/MCS	14:45 - 15:00
	<i>Speaker:</i> Michael Broomé, SE	
	Hybrid simulation & device testing in TCS/ECMO/MCS	15:00 - 15:15
	<i>Speaker:</i> Libera Fresiello, NL	
	Do's and don'ts of numerical blood flow simulations	15:15 - 15:30
	<i>Speaker:</i> Lisa Prah Wittberg, SE	
	The future of clinical decision support in ECMO	15:30 - 15:45
	<i>Speaker:</i> Michael Neidlin, DE	
	Round-table discussion	15:45 - 16:00
	<i>Pediatric Session</i>	
	14:00 - 16:00	Auditorium VIII
	Pediatric ECMO - the role of the MDT	
	<i>Moderator:</i> Maura O'Callaghan, GB	
	<i>Moderator:</i> Cristina Camilo, PT	
	Nursing empowerment in bedside decision making	14:00 - 14:15
	<i>Speaker:</i> Maura O'Callaghan, GB	
	Physiotherapy and rehabilitation	14:15 - 14:30
	<i>Speaker:</i> Emma Shkurka, GB	
136	Respiratory physiotherapy for neonatal and paediatric ECMO patients: Current European practice	14:30 - 14:45
	<i>Speaker:</i> Emma Shkurka, GB	
	Integrating cross-disciplinary care neonatal cardiac ECMO	14:45 - 15:00

	<i>Speaker:</i> Francesca Sperotto, US	
	Integrating cross-disciplinary care cardiogenic shock	15:00 - 15:15
	<i>Speaker:</i> Katharina Schmitt, DE	
	Investigations - point of care testing and laboratory parameters	15:15 - 15:30
	<i>Speaker:</i> Robert Jan Houmes, NL	
	Role of Imaging - bedside and radiology suite	15:30 - 15:45
	<i>Speaker:</i> Francisco Abecasis, PT	
	Round-table discussion: what pulls teams and what pushes teams apart?	15:45 - 16:00
<i>Pediatric Session</i>		
14:00 - 16:00		
		Auditorium VI
	Pediatric ECMO - protecting the brain	
	<i>Moderator:</i> Aparna Hoskote, GB	
	<i>Moderator:</i> Malaika Mendonca, CH	
	<i>Moderator:</i> Zelia Soares, PT	
	Cannulation strategies versus pre-ECLS haemodynamics - the therapy or the disease that impact neurological complications? (is the cannulation)	14:00 - 14:15
	<i>Speaker:</i> Jon Lillie, GB	
	Cannulation strategies versus pre-ECLS haemodynamics - the therapy or the disease that impact neurological complications? (not cannulation)	14:15 - 14:30
	<i>Speaker:</i> Giles Peek, US	
	Neuromonitoring does not foretell acute neurological event	14:30 - 14:45
	<i>Speaker:</i> Lakshmi Raman, US	
	<i>Speaker:</i> Malaika Mendonca, CH	
504	Neurological complications of neonatal and pediatric ECMO - retrospective cohort study from an ECMO centre in Portugal	14:45 - 15:00
	<i>Speaker:</i> Rafael Inácio, PT	
	Round-table discussion: My patient does not wake up - the intensivist	15:00 - 15:15
	<i>Speaker:</i> Sofia Quintas, PT	
	<i>Speaker:</i> Yael Feinstein, IL	
	Round-table discussion: My patient needs neurosurgery?	15:15 - 15:30
	<i>Speaker:</i> Claudia Faria, PT	
	Restarting anticoagulation: When and how much?	15:30 - 15:45
	<i>Speaker:</i> Gail Annich, CA	
	Round-table discussion	15:45 - 16:00

Adult Session

14:00 - 16:00

Auditorium VII

Key factors in long-term outcome after ECMO*Moderator:* Jae-Seung Jung, KR*Moderator:* Jo-Anne Fowles, GB*Moderator:* Leen Vercaemst, BE

	Optimal blood pressure and temperature control during ECMO	14:00 - 14:15
	<i>Speaker:</i> Elena Sandoval, ES	
	The rationale of oxygen and carbon dioxide targets in ECMO	14:15 - 14:30
	<i>Speaker:</i> Eddy Fan, CA	
259	Early involvement of the specialist and supportive palliative care team for ECMO patients in a specialist cardio-thoracic transplant centre	14:30 - 14:45
	<i>Speaker:</i> Lucia Meneghelli, GB	
	<i>Speaker:</i> Amy Pang, GB	
	Cognitive and psychiatric outcome after ECMO	14:45 - 15:00
	<i>Speaker:</i> Jo-Anne Fowles, GB	
	Rehabilitation during and after ECMO	15:00 - 15:15
	<i>Speaker:</i> Bernat Planas, ES	
	Cost effectiveness and long-term outcome - what to measure?	15:15 - 15:30
	<i>Speaker:</i> Annemieke Oude Lansink-Hartgring, NL	
	Cost effectiveness and long-term outcome - a multicultural perspective	15:30 - 15:45
	<i>Speaker:</i> Joseph Tonna, US	
	Round-table discussion	15:45 - 16:00

Poster Session

16:00 - 17:00

Poster walk

Moderated Poster walk Adult - Cardiac failure 4 - Terminal 1*Moderator:* Jan Belohlávek, CZ*Moderator:* Christiaan Lucas Meuwese, NL

350	Veno-Arterial Extracorporeal Membrane Oxygenation (VA-ECMO) and levosimendan in aluminum phosphide-induced cardiogenic shock	16:00 - 16:05
	<i>Poster Presenter:</i> Akram Mohamed Abdelbary Ismail, EG	
355	Nosocomial infections in adult patients undergoing postcardiotomy veno-arterial extracorporeal membrane oxygenation support	16:05 - 16:10
	<i>Poster Presenter:</i> Heinz Deschka, DE	
356	Peripheral versus central extracorporeal membrane oxygenation support for postcardiotomy shock	16:10 - 16:15
	<i>Poster Presenter:</i> Heinz Deschka, DE	
363	Outcomes of postcardiotomy venoarterial extracorporeal membrane oxygenation support in elderly patients	16:15 - 16:20
	<i>Poster Presenter:</i> Heinz Deschka, DE	

366	The evolving face of ECLS - from ECMO team to ECLS network <i>Poster Presenter:</i> Dorela Haxhiademi, IT	16:20 - 16:25
379	Evolution of left ventricle ejection fraction after the treatment of out-of-hospital cardiac arrest with extracorporeal cardiopulmonary resuscitation <i>Poster Presenter:</i> Tal Soumagnac, FR	16:25 - 16:30
382	Weaning attempt from VA-ECMO: echocardiographic parameters of contractile reserve. <i>Poster Presenter:</i> María Plaza Martín, ES	16:30 - 16:35
383	Use of ECMO as a bridge to recovery in acute post-operative cardiac failure in a patient suspected with Libman-Sacks endocarditis. <i>Poster Presenter:</i> Guadalupe Donahy Rodríguez Aquino, MX	16:35 - 16:40
409	Italian prehospital ECMO system: A national survey <i>Poster Presenter:</i> Riccardo Cusmà Piccione, IT	16:40 - 16:45
449	From out-of-hospital cardiac arrest to ECMO: Lombardy AREU emergency medical service management protocol <i>Poster Presenter:</i> Riccardo Cusmà Piccione, IT	16:45 - 16:50
423	Selection of patients for extra corporeal cardiopulmonary resuscitation (ECPR) - a multivariate prediction model for good neurological outcome <i>Poster Presenter:</i> Bengt Redfors, SE	16:50 - 16:55
<i>Poster Session</i> 16:00 - 17:00		Poster walk
Moderated Poster walk Adult - Other 2 - Terminal 4		
<i>Moderator:</i> Matthieu Schmidt, FR <i>Moderator:</i> Peter Schellongowski, AT		
283	Nutrition delivery and its influence on outcomes for adult patients on venovenous extracorporeal membrane oxygenation <i>Poster Presenter:</i> Stacy Pelekhaty, US	16:00 - 16:04
313	The characteristics and clinical outcomes of patients acquiring infections during Extracorporeal Membrane Oxygenation (ECMO) run <i>Poster Presenter:</i> Weiting Chen, US	16:04 - 16:08
326	Simulation training for inter-hospital ECMO transport team <i>Poster Presenter:</i> Anna Lindberg, SE	16:08 - 16:12
328	Simulation training in implementing a new transport mode for inter-hospital ECMO transports <i>Poster Presenter:</i> Anna Lindberg, SE	16:12 - 16:16
351	Could out-of-centre initiation of extracorporeal membrane oxygenation with mobile equipment improve outcome and prognosis in COVID-19 patients? - a retrospective study from the ECMO centre Regensburg <i>Poster Presenter:</i> Jessica Alice Niedermeier, DE	16:16 - 16:20

378	Multidisciplinary approach to bridge a critically ill patient affected by Acute Heart Failure. Unconventional use of prolonged ambulatory Intra-Aortic Balloon Pump. Our experience <i>Poster Presenter:</i> Ella Domanskaya, IT	16:20 - 16:24
408	Characterizing electroencephalographic abnormalities in patients receiving extracorporeal membrane oxygenation support <i>Poster Presenter:</i> Reema Patel, US	16:24 - 16:28
413	Anticoagulation in ECMO patients: Management in a portuguese center <i>Poster Presenter:</i> Joana Alves Cabrita, PT	16:28 - 16:32
440	Classifying fidelity for ECMO simulators and simulations: an overview of existing physical and computational ECMO simulators <i>Poster Presenter:</i> Wytze C. Duinmeijer, NL	16:32 - 16:36
445	Extracorporeal life support in thoracic emergencies - a narrative review of current evidence. <i>Speaker:</i> Jorik Simons, NL	16:36 - 16:40
456	Caloric and protein intake and duration of venous-venous ECMO in covid patients in a newly implemented regional ECMO center in Brazil <i>Poster Presenter:</i> Mario Diego Teles Correia, BR	16:40 - 16:44
476	Risk factors for major neurological events in patients under venovenous extracorporeal membrane oxygenation - single centre study <i>Poster Presenter:</i> Rita Araújo Silva, PT	16:44 - 16:48
339	ECMO rescue: Our experience <i>Poster Presenter:</i> Filipe Pereira, PT	16:48 - 16:52
<i>Poster Session</i> 16:00 - 17:00 Moderated Poster walk 16:00		Poster walk
<i>Poster Session</i> 16:00 - 17:00 Moderated Poster walk Pediatric - Other 2 - Terminal 9 <i>Moderator:</i> Mark Davidson, GB <i>Moderator:</i> Malaika Mendonca, CH		Poster walk
384	ECMO on wheels: 13 years of experience <i>Poster Presenter:</i> Zakhar Shchomak, PT	16:00 - 16:05
393	Impact of liver herniation on systemic anticoagulation in ECMO-treated neonates with congenital diaphragmatic hernia <i>Poster Presenter:</i> Natalie Rintoul, US	16:05 - 16:10
430	Review: Point of care ultrasound for children receiving ECMO <i>Poster Presenter:</i> Catia Pinto, GB	16:10 - 16:15

458	Tuberculosis, ECMO and clinical pharmacists: A tale from Lisbon <i>Poster Presenter:</i> Filipa Cosme, PT	16:15 - 16:20
462	Congenital diaphragmatic hernia: Does ECMO play a role in surgical complications? <i>Poster Presenter:</i> Rodrigo Roquette, PT	16:20 - 16:25
489	Congenital diaphragmatic hernia and ECMO: What about medium and long-term respiratory outcomes? <i>Poster Presenter:</i> Zakhar Shchomak, PT	16:25 - 16:30
496	Should activated clotting time give way to anti-factor Xa monitoring for anti-coagulation during paediatric extracorporeal membrane oxygenation? - A literature search for the evidence <i>Poster Presenter:</i> Malia Grant, GB	16:30 - 16:35
503	Risk factors and outcomes of technical induced-haemolysis in pediatric patients supported by extracorporeal membrane oxygenation (ECMO) <i>Poster Presenter:</i> Zaira Cubiles Arillo, ES	16:35 - 16:40
516	Chasing the dream (of Equipoise): Design and execution challenges of the multicenter TITRE trial of indication-based red blood cell transfusion in pediatric ECMO <i>Poster Presenter:</i> Lynn A. Sleeper, US	16:40 - 16:45
<i>Poster Session</i> 16:00 - 17:00		Poster walk
Moderated Poster walk Pediatric - Respiratory failure 1 - Terminal 10		
<i>Moderator:</i> Francisco Abecasis, PT		
21	Extracorporeal membrane oxygenation in pediatric burn care <i>Poster Presenter:</i> Marc Maybauer, US	16:00 - 16:04
151	ECMO in congenital diaphragmatic hernia - 13-year experience of the Lisbon ECMO referral centre <i>Poster Presenter:</i> Ana Cristóvão Ferreira, PT	16:04 - 16:08
255	Ventricular function, ECMO mode, and outcome in neonates with respiratory failure <i>Poster Presenter:</i> Sarah Keene, US	16:08 - 16:12
261	The role of ECMO in pediatric COVID-19: An updated systematic review and meta-analysis <i>Poster Presenter:</i> Muhammed Elhadi, LY	16:12 - 16:16
266	How we perform percutaneous multisite cannulation for VV ECMO in neonates and small children <i>Poster Presenter:</i> Janos Schnur, HU	16:16 - 16:20
289	Use of novel oxygenated right ventricular assist device hybrid ECLS for adolescents with refractory hypoxemic respiratory failure due to Covid-19 pneumonia <i>Poster Presenter:</i> Ashwin Krishna, US	16:20 - 16:24
307	The evaluation of the regional ventilation distribution in	16:24 - 16:28

	newborns with a congenital diaphragmatic hernia - a clinical PEEP-trial using electrical impedance tomography	
	<i>Poster Presenter:</i> Lukas Schroeder, DE	
389	Major surgery in children on V-V ECMO: A single center experience	16:28 - 16:32
	<i>Poster Presenter:</i> Veronika Maraczi, HU	
431	Efficacy and safety of multisite cannulation in venovenous ECMO to support neonates and infants with respiratory disease	16:32 - 16:36
	<i>Poster Presenter:</i> Jon Lillie, GB	
477	Streptococcal toxic shock syndrome (STSS) and ECMO	16:36 - 16:40
	<i>Poster Presenter:</i> Marina Pinheiro Rocha Fantini, BR	
508	Efficacy and safety of flexible bronchoscopy in pediatric ECMO patients	16:40 - 16:44
	<i>Poster Presenter:</i> Gokul Ramanathan, GB	
15	Comparison of Venovenous and Venoarterial ECMO Outcomes in Neonates with Respiratory Failure	16:44 - 16:48
	<i>Speaker:</i> Kevin D. Smith, US	
<i>Breaks</i>		
16:00 - 17:00		Poster walk
Coffee break in the exhibition area and moderated poster walk		
<i>Poster Session</i>		
16:00 - 17:00		Poster walk
Moderated Poster walk Pediatric - Difficult cases/Perfusion 1 - Terminal 8		
<i>Moderator:</i> Chris Harvey, GB		
<i>Moderator:</i> Leen Vercaemst, BE		
36	Bilateral lung transplantation as salvage therapy for bleomycin induced lung injury	16:00 - 16:05
	<i>Poster Presenter:</i> Reut Kassif Lerner, IL	
228	ECMO as a bridge to pneumonectomy in a pediatric patient with necrotizing pneumonia: Stretching the boundaries	16:05 - 16:10
	<i>Poster Presenter:</i> Mariam Gabrial, US	
294	Bronchial artery embolization for a cystic fibrosis patient with hemorrhagic shock on VV-ECMO in the PICU: A case report	16:10 - 16:15
	<i>Poster Presenter:</i> Mariam Gabrial, US	
372	Excellent outcome after two periods of extracorporeal membrane oxygenation following severe SIRS reaction after total cavo-pulmonary connection	16:15 - 16:20
	<i>Poster Presenter:</i> Friederike Schwarz, CH	
403	Use of methylene blue in refractory vasoplegia after heart transplant in pediatric patient	16:20 - 16:25
	<i>Poster Presenter:</i> Jolana Sykorova, GB	
488	ECMO for the immunocompromised pediatric patient: Our experience.	16:25 - 16:30

	<i>Poster Presenter: Sylvia Belda Hofheinz, ES</i>	
495	Clevidipine use for arterial hypertension (HT) in the pediatric ECMO patient. <i>Poster Presenter: Sylvia Belda Hofheinz, ES</i>	16:30 - 16:35
501	First pediatric ECMELLA case in Spain <i>Poster Presenter: Sylvia Belda Hofheinz, ES</i>	16:35 - 16:40
483	Service mapping of the pediatric ECMO team <i>Poster Presenter: Alessia Prosperi, IT</i>	16:40 - 16:45
 <i>Poster Session</i>		
16:00 - 17:00		Poster walk
Moderated Poster walk Adult - Respiratory failure 4 - Terminal 6		
<i>Moderator: Christian Karagiannidis, DE</i>		
407	Interhospital ECMO transport during Covid-19 pandemic: A clinical experience <i>Poster Presenter: Mustafa Mert Ozgur, TR</i>	16:00 - 16:05
418	Prolonged oxygenator usage for VV ECMO for COVID ARDS: A clinical experience <i>Poster Presenter: Mustafa Mert Ozgur, TR</i>	16:05 - 16:10
420	A systematic review of the use of CytoSorb® Hemoadsorption in patients undergoing veno-venous ECMO support for severe acute respiratory distress syndrome <i>Poster Presenter: Cristina Rao, DE</i>	16:10 - 16:15
421	Outcomes and mortality in a newly implemented ECMO center in Northeast Brazil during pandemic <i>Poster Presenter: Verônica Soares Monteiro, BR</i>	16:15 - 16:20
432	Continuous Renal Replacement Therapy (CRRT) worsens the outcomes in patients receiving veno-venous extracorporeal membrane oxygenation <i>Poster Presenter: Sanjay Chaudhary, US</i>	16:20 - 16:25
450	Analgo-sedation of patients with severe COVID-19 associated respiratory failure supported with extracorporeal membrane oxygenation: A retrospective, single-center analysis <i>Poster Presenter: Christian Glück, DE</i>	16:25 - 16:30
452	Successful VV-ECMO weaning from pulmonary involvement of anaplastic large T-cell lymphoma <i>Poster Presenter: Rui Filipe Gomes, PT</i>	16:30 - 16:35
453	Membrane dysfunction in patients with severe COVID-19 treated with venovenous extracorporeal membrane oxygenation - analysis from a pooled data from a single centre <i>Poster Presenter: Rui Filipe Gomes, PT</i>	16:35 - 16:40
465	SARS-CoV2 infection after vaccination in patients requiring extracorporeal life support: An analysis from the EuroECMO-COVID study group <i>Poster Presenter: Maria Elena De Piero, NL</i>	16:40 - 16:45
371	Gender differences in COVID-19 patients supported with	16:45 - 16:49

**extracorporeal membrane oxygenation (EuroECMO-COVID):
Pathways, complications, outcomes and follow up**

Poster Presenter: Maria Elena De Piero, NL

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| 471 | Outcomes of severely ill Covid-19 patients retrieved on ECMO: Single institution experience
<i>Poster Presenter:</i> Agne Jankuviene, LT | 16:49 - 16:54 |
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Poster Session

16:00 - 17:00

Poster walk

Moderated Poster walk Adult - Respiratory failure 3 - Terminal 5

Moderator: Thomas Mueller, DE

Moderator: Jordi Riera, ES

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| 329 | Experience achieved after implementation of the Veno-Venous ExtraCorporeal Membrane Oxygenation(ECMO) retrieval program in the region of Madrid (Spain). Hospital Universitario 12 de Octubre
<i>Poster Presenter:</i> Ana Delgado Téllez de Cepeda, ES | 16:00 - 16:04 |
| 332 | Experiences and views of MDT health care professionals regarding the end of life care and withdrawal of VV-ECMO across the UK ECMO network
<i>Poster Presenter:</i> Rebecca Lewis, GB | 16:04 - 16:08 |
| 343 | Extracorporeal membrane oxygenation for airway emergencies
<i>Poster Presenter:</i> Pramod Guru, US | 16:08 - 16:12 |
| 346 | Right ventricular status in patients with VV-ECMO and its prognostic significance -the Mayo Clinic experience
<i>Poster Presenter:</i> Anirban Bhattacharyya, US | 16:12 - 16:16 |
| 352 | Unique vascular complication following extended VV-ECMO support
<i>Poster Presenter:</i> Pramod Guru, US | 16:16 - 16:20 |
| 364 | Determinants of death in patients with COVID-19 pneumonia treated with venovenous extracorporeal membrane oxygenation support
<i>Poster Presenter:</i> Virgílio Dias Silva, PT | 16:20 - 16:24 |
| 368 | The use of venovenous extracorporeal membrane oxygenation in COVID-19: An updated systematic review and meta-analysis of clinical outcomes
<i>Poster Presenter:</i> Muhammed Elhadi, LY | 16:24 - 16:28 |
| 373 | Extracorporeal membrane oxygenation in massive pulmonary hemorrhage secondary to arteriovenous malformation
<i>Poster Presenter:</i> Maria Perry Vidal, PT | 16:28 - 16:32 |
| 392 | VV-ECMO decannulation under anticoagulation: Our strategy
<i>Speaker:</i> Philip Fortuna, PT | 16:32 - 16:36 |
| 406 | Extracorporeal membrane oxygenation instead of invasive ventilation in patients with COVID-19 acute respiratory distress syndrome (ARDS) and pneumomediastinum: A | 16:36 - 16:40 |

	cohort trial	
	<i>Poster Presenter:</i> Charalampos Pierrakos, BE	
475	Zero Recirculation (REC) and Cardiac Output (CO) in VV ECMO patients	16:40 - 16:45
	<i>Poster Presenter:</i> Nikolai Krivitski, US	
492	Two-year outcome of extracorporeal membrane oxygenation in COVID-19 related severe respiratory failure	16:45 - 16:50
	<i>Poster Presenter:</i> Martin Simek, CZ	
<i>Poster Session</i>		
16:00 - 17:00		Poster walk
Moderated Poster walk Adult - Other 1 - Terminal 3		
<i>Moderator:</i> Lars Mikael Broman, SE		
18	Minimally invasive versus conventional sternotomy for aortic valve replacement: A systematic review and meta-analysis	16:00 - 16:05
	<i>Poster Presenter:</i> Ahmed Shaboub, EG	
61	Rehabilitation in patients bridging to lung transplantation with extracorporeal membrane oxygenation - a UK centre experience	16:05 - 16:10
	<i>Poster Presenter:</i> Susan Hutchison, GB	
89	Feasibility and efficacy of high flow normothermic regional perfusion for donation after circulatory death	16:10 - 16:15
	<i>Poster Presenter:</i> Irene Steinberg, IT	
116	Bivalirudin during extracorporeal support - a retrospective case series	16:15 - 16:20
	<i>Poster Presenter:</i> Cassandra Vale, AU	
135	Achieving individualized protein targets improves nitrogen balance for patients on venovenous extracorporeal membrane oxygenation	16:20 - 16:25
	<i>Poster Presenter:</i> Stacy Pelekhaty, US	
149	A single centre, retrospective review of the provision and frequency of physiotherapy interventions delivered to patients receiving V-V and V-A ECMO	16:25 - 16:30
	<i>Poster Presenter:</i> Claire Bradley, GB	
182	Actual cost estimation of extracorporeal cardio-pulmonary resuscitation (ACE-ECPR Study)- a time-driven activity-based costing study	16:30 - 16:35
	<i>Poster Presenter:</i> Vinodh Bhagyalakshmi Nanjayya, AU	
185	Incidence of heparin resistance and heparin failure in patients receiving extracorporeal membrane oxygenation - an exploratory retrospective analysis	16:35 - 16:40
	<i>Poster Presenter:</i> Bernhard Nagler, AT	
204	Neuropsychiatric sequelae do not depend on ECMO support nor on levels of consciousness during ECMO support	16:40 - 16:45
	<i>Poster Presenter:</i> Lara Pladet, NL	
239	An open-source real-time data acquisition and analysis	16:45 - 16:50

	system for ECMO devices	
	<i>Poster Presenter:</i> Markus Valtteri Ketomäki, DE	
240	Physical outcomes and hospital length of stay of patients receiving ECMO in a large tertiary UK centre	16:50 - 16:55
	<i>Poster Presenter:</i> Claire Bradley, GB	
256	Veno-arterial extracorporeal membrane oxygenation as a bridge to redo cardiac surgery for inoperable patients: A case series	16:55 - 17:00
	<i>Poster Presenter:</i> Diego Peña, CO	
<i>Poster Session</i>		
16:00 - 17:00		Poster walk
Moderated Poster walk Adult - Cardiac failure 5 - Terminal 2		
<i>Moderator:</i> Martin Balik, CZ		
428	Stellate Ganglion Block (SGB) with continuous infusion for management of electrical storm under Mechanical Cardiac Support (MCS).	16:00 - 16:04
	<i>Poster Presenter:</i> Miguel Teixeira, US	
433	The role of intraoperative hemoadsorption in cardiopulmonary unstable patients undergoing left ventricular assist device implantation	16:04 - 16:08
	<i>Poster Presenter:</i> Zaki Haidari, DE	
436	Bilateral femoral cannulation ss associated with reduced severe limb ischemia-related complications compared to unilateral femoral cannulation in adult peripheral V-A ECMO	16:08 - 16:12
	<i>Poster Presenter:</i> Jorik Simons, NL	
438	Improving the quality of care for patients presenting in cardiogenic shock with acute coronary syndrome to a heart attack centre. A single centre experience	16:12 - 16:16
	<i>Poster Presenter:</i> Luka Poprijan, GB	
443	One year ECPR results in a high volume ECMO center	16:16 - 16:20
	<i>Poster Presenter:</i> Pau Torrella Llauger, ES	
444	Results of the beginning of an ECMO program in Latin America	16:20 - 16:24
	<i>Poster Presenter:</i> Jorge Meza, MX	
461	Retrospective analysis of liver transplantation using brain death donor after ECPR	16:24 - 16:28
	<i>Poster Presenter:</i> Simon Wai Ching Sin, HK	
467	Optimal timing of extracorporeal membrane oxygenation (ECMO) application for the prognosis of patients with acute coronary syndrome (ACS) accompanying cardiogenic shock	16:28 - 16:32
	<i>Poster Presenter:</i> Sung UK Kwon, KR	
479	Understanding in-hospital death according to On-ECMO or post-weaning mortality in adult post-cardiotomy Veno-Arterial extracorporeal membrane oxygenation: Observations from the PELS-1 cohort study	16:32 - 16:36
	<i>Poster Presenter:</i> Silvia Mariani, NL	

481	The importance of timing in post-cardiotomy Veno-Arterial extracorporeal membrane oxygenation: The PELS-1 multicentre observational study <i>Poster Presenter:</i> Silvia Mariani, NL	16:36 - 16:40
427	Patient and management variables associated to survival after post-cardiotomy extracorporeal membrane oxygenation in adults: The PELS-1 multi-centre cohort study <i>Poster Presenter:</i> Silvia Mariani, NL	16:40 - 16:44
486	The evaluation of infections in adult patients with extracorporeal cardiopulmonary resuscitation after cardiac arrest <i>Poster Presenter:</i> Mustafa Emre Gurcu, TR	16:44 - 16:48
460	Risk factors of extracorporeal membrane oxygenator weaning failure after major cardiac surgery <i>Poster Presenter:</i> Youngkwan Song, KR	16:48 - 16:52
491	Impact of continuous renal replacement therapy (CRRT) on outcomes of patients on veno-arterial extracorporeal membrane oxygenation (VAECMO) <i>Poster Presenter:</i> Sanjay Chaudhary, US	16:52 - 16:57

Adult Session

17:00 - 18:30

Auditorium I

Imaging and monitoring on ECMO*Moderator:* Martin Balik, CZ*Moderator:* Kenneth Palmer, SE

	Whole body CT scanning pre ECMO - pro <i>Speaker:</i> Caroline Sampson, GB	17:00 - 17:15
	Whole body CT scanning pre ECMO - con <i>Speaker:</i> Martin Balik, CZ	17:15 - 17:30
163	Findings and clinical implications of an early, standardized whole body CT in eCPR patients <i>Speaker:</i> Matthias Mueller, AT	17:30 - 17:45
	Multimodality imaging of the heart during ECMO <i>Speaker:</i> Javier Puerma-Jiménez, ES	17:45 - 18:00
	Multimodality imaging of the lung during ECMO <i>Speaker:</i> Shinichiro Ohshimo, JP	18:00 - 18:15
	New imaging modalities for ECMO <i>Speaker:</i> Maria Martinez, ES	18:15 - 18:30

Technology and innovation

17:00 - 18:30

Auditorium II

Artificial placenta and artificial womb*Moderator:* Alan Flake, US*Moderator:* Jutta Arens, NL*Moderator:* Jonathan Smith, GB

	Artificial womb - pro	17:00 - 17:15
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	<i>Speaker:</i> Alan Flake, US	
	CON Artificial womb, but pro artificial placenta	17:15 - 17:30
	<i>Speaker:</i> Christoph Fusch, DE	
263	Design and development of an oxygenator model for the use as a biohybrid lung	17:30 - 17:45
	<i>Speaker:</i> Abhishek Singh, DE	
	Artificial placenta/artificial womb - title/ 'brief' pending	17:45 - 18:00
	<i>Speaker:</i> Jutta Arens, NL	
	Artificial placenta/womb therapy - chances and risks for the fetus	18:00 - 18:15
	<i>Speaker:</i> Elisenda Eixarch, ES	
	Microfluidic technology for the artificial placenta application	18:15 - 18:30
	<i>Speaker:</i> George Mychaliska, US	
 <i>Pediatric Session</i>		
17:00 - 18:30		Auditorium VIII
Pediatric ECMO - new horizons		
<i>Moderator:</i> Peter Roeleveld, NL		
<i>Moderator:</i> Lisa Carson Price, GB		
<i>Moderator:</i> Velia Antonini, IT		
	Challenges in dosing new drugs on ECMO	17:00 - 17:15
	<i>Speaker:</i> Enno Wildschut, NL	
	Mechanical circulatory support bridging to transplant - overcoming challenges	17:15 - 17:30
	<i>Speaker:</i> Katharina Schmitt, DE	
	Normothermic regional perfusion in DCD donors	17:30 - 17:45
	<i>Speaker:</i> Velia Antonini, IT	
	AI and machine learning	17:45 - 18:00
	<i>Speaker:</i> Lakshmi Raman, US	
	Education and simulation	18:00 - 18:15
	<i>Speaker:</i> Mirjana Cvetkovic, GB	
	Round-table discussion	18:15 - 18:30
 <i>Pediatric Session</i>		
17:00 - 18:30		Auditorium VI
Pediatric ECMO - cardiac ECMO		
<i>Moderator:</i> Maura O'Callaghan, GB		
<i>Moderator:</i> Yasser Kazzaz, SA		
<i>Moderator:</i> Jana Assy, BE		
	ECMO for intractable arrhythmia	17:00 - 17:15
	<i>Speaker:</i> Susana Martins de Abreu, PT	
	Pre-operative ECMO in Neonates with CHD	17:15 - 17:30
	<i>Speaker:</i> Lena Koers, NL	
	Left heart decompression on ECMO	17:30 - 17:45

Speaker: Francesca Sperotto, US

ECMO after cardiac surgery & transplant

17:45 - 18:00

Speaker: Aparna Hoskote, GB

Transition from ECMO to VAD: Timing

18:00 - 18:15

Speaker: Ravi Thiagarajan, US

Round-table discussion

18:15 - 18:30

Adult Session

17:00 - 18:30

Auditorium VII

ECMO in trauma - beneficial or still controversial?

Moderator: Justyna Swol, DE

Moderator: Chirine Mossadegh, FR

ECMO in trauma - current indications and former controversies

17:00 - 17:15

Speaker: Justyna Swol, DE

ECMO in trauma patients with obesity

17:15 - 17:30

Speaker: Ibrahim Fawzy, QA

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Veno-venous extracorporeal membrane oxygenation should be considered early in patients with traumatic brain injuries and severe respiratory failure

17:30 - 17:45

Speaker: Samuel Austin, US

ECMO in polytrauma resuscitation

17:45 - 18:00

Speaker: Sameer Patel, GB

ECMO in accidental hypothermia

18:00 - 18:15

Speaker: Anna Jarosz, PL

ECMO in combat trauma - serving soldiers and civilians

18:15 - 18:30

Speaker: Douglas H. Anderson, US

Technology and innovation

18:30 - 20:00

Auditorium VIII

Working group ECPR - open for everyone interested in

Saturday, 29. April 2023*Industry*

08:00 - 08:45

Auditorium II

Breakfast Symposium 3*Adult Session*

08:30 - 10:00

Auditorium I

Bridge to lung transplant*Moderator:* Caroline Patterson, GB*Moderator:* Nicholas Barrett, GB**The LAS score - a European perspective**

08:30 - 08:45

Speaker: Are Holm, NO**How to individualize the perfect ECMO configuration**

08:45 - 09:00

Speaker: Maria Martinez, ES**Patient management on an ECMO bridge - nurses' perspectives**

09:00 - 09:15

Speaker: Monika Tukacs, US**Short- and long-term outcome after an ECMO bridge**

09:15 - 09:30

Speaker: Peter Schellongowski, AT**Lung transplant in severe COVID - Pro**

09:30 - 09:45

Speaker: Konrad Hoetzenecker, AT**Lung transplant in severe COVID - Con**

09:45 - 10:00

Speaker: Jordi Riera, ES*Pediatric Session*

08:30 - 10:00

Auditorium VIII

Pediatric ECMO - nuts and bolts*Moderator:* Giles Peek, US*Moderator:* Maura O'Callaghan, GB*Moderator:* Dorela Haxhiademi, IT**Experience with novel crescent neonatal VV-ECMO**

08:30 - 08:45

Speaker: Thomas Brogan, US**Central versus peripheral cannulation - cardiac ECMO**

08:45 - 09:00

Speaker: Chris Harvey, GB**Peripheral ECMO limb complications**

09:00 - 09:15

Speaker: Sylvia Belda, ES**Circuits and configurations**

09:15 - 09:30

Speaker: Lisa Carson Price, GB**Evolution of ECMO program towards excellence - road map?**

09:30 - 09:45

Speaker: Mark Davidson, GB**Family perspectives - patient and family centered care**

09:45 - 10:00

Speaker: Jose Diogo Martins, PT

Technology and innovation

08:30 - 10:00

Auditorium VI

Optimizing ECMO technology*Moderator:* Thomas Mueller, DE*Moderator:* Jutta Arens, NL*Moderator:* Leen Vercaemst, BE**Pro: Hollow fiber oxygenators**

08:30 - 08:45

Speaker: Filip De Somer, BE**Pro: Microfluidic oxygenators**

08:45 - 09:00

Speaker: Sebastian Jansen, DE

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Clot localization within membrane lungs using different imaging methods and histological clot characterization as a way to prevent thrombosis in extracorporeal membrane oxygenation

09:00 - 09:15

Speaker: Maria Wagner, DE**Blood trauma in the era of modern ECMO - recent clinical insights**

09:15 - 09:30

Speaker: Alois Philipp, DE**Animal models in ECMO research - what can be learnt?**

09:30 - 09:45

Speaker: Paolo Meani, NL**Round-table discussion**

09:45 - 10:00

Adult Session

08:30 - 10:00

Auditorium VII

Peri-procedural ECMO in non-cardiac surgery*Moderator:* Konstanty Szuldrzynski, PL*Moderator:* Jan Belohlávek, CZ*Moderator:* Christian Karagiannidis, DE**ECMO for major cardiopulmonary resections**

08:30 - 08:45

Speaker: Christian Karagiannidis, DE**ECMO in percutaneous clot removal in PE with RV failure**

08:45 - 09:00

Speaker: Matthias Lubnow, DE

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ECMO in drug intoxication. A nationwide retrospective study.

09:00 - 09:15

Speaker: Thomas Jasny, DE**Other indications for periprocedural ECMO**

09:15 - 09:30

Speaker: Axel Rand, DE**ICU management in ECMO for noncardiac surgery**

09:30 - 09:45

Speaker: Carla Basilio, PT**When to decannulate ?**

09:45 - 10:00

Speaker: Philip Fortuna, PT*Breaks*

10:00 - 10:30

Poster walk

Coffee break in the exhibition area

Adult Session

10:30 - 12:00

Auditorium I

Bridge to long-term MCS/ HTx - Joint session with ISHLT*Moderator:* Jo-Anne Fowles, GB*Moderator:* Lisa Carson Price, GB*Moderator:* Roberto Lorusso, NL**How to prioritize the ECMO patient for heart transplant in EU?**

10:30 - 10:45

Speaker: Guillaume Lebreton, FR**Does ECMO help to improve the INTERMACS class?**

10:45 - 11:00

Speaker: Stephan Ensminger, DE**The advance of donation after circulatory death (DCD) in EU**

11:00 - 11:15

Speaker: Antonio Rubino, GB**The future of the total artificial heart**

11:15 - 11:30

Speaker: Evgenij Potapov, DE**The future of Xenotransplant**

11:30 - 11:45

Speaker: Konrad Fischer, DE**Round-table discussion**

11:45 - 12:00

Technology and innovation

10:30 - 12:00

Auditorium II

The top biomedical engineer's perspective*Moderator:* Lars Mikael Broman, SE*Moderator:* Libera Fresiello, NL**The (long) path from a good idea to an excellent product**

10:30 - 10:45

Speaker: Ake Larsson, SE**CARL. Enabling perfusion technology**

10:45 - 11:00

Speaker: Christoph Benk, DE**Stepwise Towards ECMO Transport Approval - Regulatory Challenges Under MDR**

11:00 - 11:15

Speaker: Oliver Marseille, DE**Round-table discussion**

11:15 - 11:35

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Development of a combined, highly integrated extracorporeal lung and kidney support device (RenOx): Evaluation of fibre configurations on gas exchange preservation

11:35 - 11:50

Speaker: Ana Martins Costa, NL*Pediatric Session*

10:30 - 12:00

Auditorium VIII

Pediatric ECMO - Research*Moderator:* Heidi Dalton, US*Moderator:* Leen Vercaemst, BE**TITRE Study**

10:30 - 10:45

Speaker: Ravi Thiagarajan, US

	Stem cell research?	10:45 - 11:00
	<i>Speaker:</i> Pietro Merli, IT	
246	Whole genome sequencing as a first-tier test for extracorporeal life support	11:00 - 11:15
	Using ELSO registry for research	11:15 - 11:30
	<i>Speaker:</i> Angelo Polito, CH	
	ASCEND study	11:30 - 11:45
	<i>Speaker:</i> Ryan Barbaro, US	
	Round-table discussion along with family support group representative	11:45 - 12:00
<i>Adult Session</i>		
10:30 - 12:00		Auditorium VII
Infectious complications in ECMO		
<i>Moderator:</i> Fernando Miranda, PT		
<i>Moderator:</i> Martin Balik, CZ		
	Beyond standard laboratory diagnostics	10:30 - 10:45
	<i>Speaker:</i> Jonathan Edgeworth, GB	
	Circuit and line infections	10:45 - 11:00
	<i>Speaker:</i> Jordi Rello, ES	
105	Microbiological study of cannulae after ECMO support: A retrospective study including 336 samples	11:00 - 11:15
	<i>Speaker:</i> Fernando Fuentes, ES	
	Fungal infections on ECMO: Challenge or futility?	11:15 - 11:30
	<i>Speaker:</i> Marie Helleberg, DK	
	Inflammation and negative cultures: What to do?	11:30 - 11:45
	<i>Speaker:</i> Maria Martinez, ES	
	Round-table discussion	11:45 - 12:00
<i>Plenary Session</i>		
12:10 - 13:30		Auditorium I
The long-term view on ECMO		
<i>Moderator:</i> Jonathan Smith, GB		
<i>Moderator:</i> Konstanty Szuldrzynski, PL		
<i>Moderator:</i> Nicholas Barrett, GB		
	ECMO in COVID has opened my eyes	12:10 - 12:30
	<i>Speaker:</i> Christian Karagiannidis, DE	
	ECMO - just another support modality - My team's sense of normalcy ...	12:30 - 12:50
	<i>Speaker:</i> Jo-Anne Fowles, GB	
	The future of ECMO - We'll fly-by-wire ...	12:50 - 13:10
	<i>Speaker:</i> Nicholas Barrett, GB	
	Round-table discussion	13:10 - 13:25

Plenary Session

13:30 - 14:00

Auditorium I

Closing ceremony and congress summary