EduCorner Programme during EuroELSO 2024

24 - 26 April 2024

Coordination:

Justyna Swol (adults)
Mirjana Cvetkovic (pediatrics)

Workshop title			Trainers	Aims, goals and learning objectives	Days	Time	Room
Bring your team to ECPR cannulation and more - Kącik Edukacyjny w języku polskim - Polish language programme							**Max. students**
IHCA ECPR	Nawigacja USG w ECMO	"prime with me" – tips and tricks	Marek Dabrowski, Bartlomiej Perek, Marcin Ligowski, Jan Kaczmarek, Maciej Sip, Jaroslaw Ratkowski, Konrad Baumgart, Sebastian Stefaniak, Mateusz Puslecki, Malgorzata Ladzinska, Piotr Ladzinski – Poznań, Polska	Następujące tematy zostaną omówione na kursie: wykonywanie kaniulacji poprzez przezskórny dostęp naczyniowy podczas resuscytacji przy użyciu mechanicznego systemu wspomagania krążenia. - wysokiej jakości resuscytacja krążeniowo-oddechowa - użycie mechanicznego urządzenia do kompresji klatki piersiowej - przezskórny dostęp naczyniowy (kaniulacja) - uruchomienie ECMO - Logistyka i dynamika zespołu, komunikacja w zespole	24 April 2024 Wednesday 24 kwietnia 2024 – środa	13:00-14:00	2.014
IHCA ECPR	Nawigacja USG w ECMO	"prime with me" – tips and tricks				14:15-15:15	2.015 2.016
Na początku jest high-quality RKO	Transport wewnątrz-szpitalny z ECMO	Debriefing – serce symulacji				15:45-16:45	
Na początku jest high-quality RKO	Transport wewnątrz-szpitalny z ECMO	Debriefing – serce symulacji				17:00-18:00	max 25 students
Exceptional ECMO simulation experience – check until you got it							
Normothermic regional perfusion in DCD donors - (un)expected challenges			Marta Velia Antonini; Cesena, Italy, Antonio Rubino, Marius Berman; Cambridge, UK, Cambridge, UK, Ana Delgado; Juan Blanco-Morillo	Engaging a case-based discussion on DCD organ donation and NRP, and joining a wet lab focused on NRP circuits and complications; expanding the donor pool enrolling DCD organ donors respecting country-specific ethical/legal boundaries; application of NRP in DCD donors in Europe; implementing a safe and effective NRP in DCD donors preventing and managing major potential clinical and mechanical complications; understand the basic concepts and ethical/legal boundaries in DCD organ donation in different European country/specific Scenarios; understand rationale, techniques and potential ethical/legal issues of NRP in DCD donors in different European country/specific scenarios; know how to prevent, recognize, and manage the major potential clinical complications of NRP; know how to prevent, recognize, and manage the major potential mechanical complications of NRP	25 April 2024 Thursday 26 April 2024 Friday	14:30-16:00 10:15-11:45	2.001 max 15 students
Major problems - exact solutions: Trouble shooting during ECMO - Simulation of CP/pump skills - Simulation of oxygenator skills **TO BE CONTINUED ON THE NEXT PAGE**			Lien Vanrijkel; Leuven, Belg. Sharon Jakobs; Antwerpen, Belgium	To cover the five troubleshooting topics according to ELSO recommendations for ECMO training. **1. Simulation of CP/pump skills** a. Hand cranking b. Insufficient drainage c. Air embolism and accidental decannulation **2. Simulation of oxygenator skills** a. Oxygenator failure b. Air supply failure **TO BE CONTINUED ON THE NEXT PAGE**	25 April 2024 Thursday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	2.002

EuroELSO/EBCP join workshop with European Board of Cardiovascular Perfusion		1a. Understand how and when to hand crank, difference between hand crank and back up pump. 1b. Identify air embolism and accidental decannulation and know first steps in trouble shooting. 1c. Recognize and resolve drainage problem. 2a. Understand how to spot and recognize the early signs of oxygenator failure. 2b. Learn how to check the whole system, and spot the difference between air supply and oxygenator failure	26 April 2024 Friday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	max 15 students
Dark squared discovery: **Mechanical ventilation during ECMO** - Simulation of PV Loops - Simulation of oesophageal and transpulmonary pressure	Luigi Camporota; London, UK Domenco Grieco; Rome, Italy	To understand bedside and advanced techniques of respiratory monitoring and targets for lung protective ventilation: Concepts of compliance, elastance, normalized elastance and specific elastance; Driving pressure to set tidal volume; Pitfalls of driving pressure (AOP, Inspiratory time) **Simulation (1) PV Loops** - Meaning of pressure volume curve inspiratory/ expiratory): lung hysteresis - Hysteresis to evaluate alveolar recruitment and PEEP - Airway closure and airway opening pressure - Recruitment-to-inflation ratio to assess recruitability **Simulation (2) Oesophageal &transpulmonary pressure** - How to measure it at the bedside: oesophageal pressure monitoring and catheter placement - Meaning of Pes measurement: vertical gradient and transpulmonary pressure heterogeneity in the lungs: elastance-derived vs. direct methods. - How to establish the upper limit of ventilation: elastance-derived end-inspiratory transpulmonary pressure - How to (possibly) set peep: end-expiratory transpulmonary pressure.	25 April 2024 Thursday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	2.003
			26 April 2024 Friday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	max 15 students
Capturing on the edge: **Tips and pitfalls in ultrasound guided ECMO cannulation**	Tobias Wengenmayer, Dawid Staudacher, Alexander Supady, Asieb Sekandarzad Freiburg, Germany	The participants should get a good overview of the safe cannulation using ultrasound guidance with focus on the right jugular insertion of dual lumen cannula. Demonstration, practical guidance, and simulation of ultrasound-guided cannulation for V-V and V-A ECMO with single- and double-lumen cannulae, jugular and inguinal access with focus on echocardiographic guidance and tricks for the implantation of double-lumen cannula. Criteria and requirements for successful jugular cannulation. Potential periinterventional complications will be explained and complication management will be practiced during the sessions. Finally, replacement strategies for relocation of dislocated cannulas during ongoing ECMO support will be trained. High-end simulators will allow training close to real-life conditions. All participants should be able to understand benefits, caveats, and challenges of different cannulation strategies; participants with prior experience in ECMO cannulation will be able to adopt the strategies for their clinical practice.	25 April 2024 Thursday	11:45-12:45 12:45-13:45	2.004
			26 April 2024 Friday	12:45-13:45	max 15 students

In between the destinations: Renal replacement (CRRT) and plasmapheresis during ECMO ***Polish translation upon request***	Sonia Águas, Czarmaine Nicholson, Urszula Rerutko Cambridge, UK	Through theoretical presentation and simulation provide an understanding of CRRT/plasmapheresis during ECMO • indications for connecting CRRT/plasmapheresis to the ECMO circuit • Demonstrate through simulation safe connection and disconnection • Discuss complications and challenges of different approaches. • Discuss prevention and troubleshooting of complications • Identify indications for connecting CRRT/ plasmapheresis to the ECMO circuit • Demonstrate safe connection and disconnection • Understand the complications and challenges of different approaches. • Understand prevention and troubleshooting of complications in the clinical area	25 April 2024 Thursday 26 April 2024 Friday	14:00-15:00 10:30-11:30 12:45-13:45 14:00-15:00	2.005 max 15 students
Interfering with the disappearing pieces: Managing complications during V-A ECMO for cardiac support	Chris Meadows, Dan Taylor, Peter Sherren, Nicholas Ioannou, Stephen Tricklebank, Kathleen Daly, Nicola Agnew, Nigel Gooby, Janine Bulmer; London, UK	Participants will achieve a greater understanding of peripheral V-A ECMO circuit anatomy including retrograde blood flow, how to run peripheral V-A ECMO safely, to recognise when complications are occurring, and how to successfully manage them. Appreciation of clinical features, recognition of complications, symptomatology, and management options. Tutorial on complications of V-A ECMO: - Differential hypoxemia (Harlequin Syndrome): clinical features, causes, how to diagnose, and management options - LV distension: clinical features, causes, how to diagnose, and management options Opportunity to take part in simulation scenario to consolidate learning through direct experience and/or debriefing	25 April 2024 Thursday 26 April 2024 Friday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00 10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	2.006 max 15 students
Capturing the trapped piece: Refractory hypoxemia during V-V ECMO for respiratory support	Ibrahim Fawzy Hassan, Ali Ait Hssain, Nadir Kharma, Arzak Hamed Doha, Qatar	This workshop provides a systematic approach how to recognize patient / ECMO interactions which may lead to severe hypoxemia on V-V ECMO. This workshop entails theoretical part combined with immersive high-fidelity simulation followed by debriefing on refractory hypoxemia on V-V ECMO. To define "hypoxemia" on V-V ECMO, to review the notions of oxygen transport and oxygen delivery, to understand the physiology of refractory hypoxemia on V-V ECMO, to assess a patient by using a systematic approach for refractory hypoxemia, to consider all the possible aetiologies of persisting hypoxemia while on V-V ECMO, to apply all the potential interventions to correct the persisting, refractory hypoxemia	25 April 2024 Thursday 26 April 2024 Friday	10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00 10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	2.007 max 15 students
Virtual ECMO simulation experience – interfering with the future dreams and reality					
Simulate and cannulate in 3D: virtual ECMO model and digital twins	Richard Tallman, Dave Machin, Irada Tews, Colin Ummerle, Simon Sonntag, Moritz Jung, Hans Seiler	Immersive, three-dimensional experience of ECMO cannulation perceived through a virtual reality device and transformation into augmented reality. The user will perform an ECMO cannulation in a computer-generated ICU environment with scenes and objects that appear in a simulated 3D environment that enables users to explore and interact with a virtual surrounding in a way that approximates reality, as it is perceived through the users' senses.	25 April 2024 Thursday 26 April 2024 Friday	Both days: 10:30-11:30 11:45-12:45 12:45-13:45 14:00-15:00	2.017 - 2.018 max 25 students

Let's learn hemodynamic with Harvi **Session 1: (25. April) V-A ECMO and loss of pulsatility:** the underlying physiology that informs management strategies with focus on the impact of V-A ECMO on LV function and explore strategies for addressing LV distension. **Session 2: (26. April) Complex cases: BiVentricular failure and ischemic VSD:** explore the physiology of complex conditions, such as biventricular failure and mechanical support for the patient with an ischemic VSD.	Matteo DiNardo, Rome, Italy Marc L. Dickstein, USA	**Background:** Harvi is a set of online textbooks and a cardiovascular/pulmonary simulator that has been in development for over 30 years for research and education (harvi.online). The Harvi platform is currently used in an interactive program (TEACH, Training and Education in Advanced Cardiovascular Hemodynamic) for training in basic and advanced cardiac pathophysiology, Participants are encouraged to bring laptop computers and will be given detailed instructions and guided through specific scenarios to explore the hemodynamic seen in patients supported with many cannulation strategies, concurrent secondary devices, and a myriad of underlying (and rapidly changing) cardiopulmonary pathophysiologic conditions.	25 April 2024 Thursday 26 April 2024 Friday	Session 1 11:45-12:45 Session 2 12:45-13:45	2.015 - 2.016 max 25 students
Pediatric ECMO adventure – and the stars look very different today!					
ECMO in trauma	Justyna Swol, Graeme MacLaren, Mark Davidson, Malaika Mendonca, Giles Peek, Stepan Maruniak, Victoria Molyneux, Francesc Torres, Maura O'Callaghan, Mirjana Cvetkovic	The goal of the training is to acquire advance knowledge and competencies in managing children on ECMO, and to develop adequate multidisciplinary teamwork skills to manage children on advanced mechanical life support. **Description:** This immersive hands-on workshop and high-fidelity simulation provides the latest techniques and technology surrounding the clinical use of ECMO, including novel educational models. Through various multilevel, simple, and advanced clinical scenarios, we will apply the knowledge gained in the understanding and managing children supported on ECMO utilizing high fidelity simulation mannequins and educational modalities with international, experienced facilitators. **Learning Outcomes:** Upon completion of this activity, participants should be able to: recognize complications of V-V and V-A ECMO, troubleshoot routine and catastrophic ECMO events, identify and illustrate the most effective cannulation strategy, ECPR, ECMO in Trauma, ECMO and Impella, ECMO transport, ECMO in sepsis, Induction to multidisciplinary teamwork & basic pathway during ECPR, evaluate the modality of ECMO most appropriate for the patient, eork and communicate clearly with multi-disciplinary team using closed loop communication **Facilitators** for this advanced EuroELSO Paediatric Educational Corner 2024 will be utilised from broader international speaker group. **Participants:** 10-20 per session. **Target audience:** intensivists, anaesthetists, perfusionists, paediatricians, neonatologists, Emergency Department physicians, cardiac intensivists, ECMO specialists, surgeons, cardiologists, ICU nurses, theatre staff, trainees and other allied health care professionals looking after patients on ECMO.	25 April 2024 Thursday	10:30-11:30	VIP Room
VV-ECMO double site cannula insertion	Jon Lillie, Veronika Maraczi, Matteo Di Nardo, Anne Marie Guerguerian, Ryan Barbaro		25 April 2024 Thursday	11:45-12:45	VIP Room
Help! Pump failure	Lisa Carson Price, Giacomo Cavallaro, Stepan Maruniak, Jana Assy, Peter Roeleveld, Francesc Torres, Susan Lawrie Maura O'Callaghan, Mirjana Cvetkovic		25 April 2024 Thursday	12:45-13:45	VIP Room
OOH CA-ECPR – exploring the boundaries	Jan Belohlavek, Robert Jan Houmes, Chris Harvey, Lisa Carson Price, Luca Marchetto, Alvise Tosoni, Maura O'Callaghan, Mirjana Cvetkovic		25 April 2024 Thursday	14:00-15:00	VIP Room
Sepsis on ECMO	Graeme MacLaren, Anne Marie Guerguerian, Ryan Barbaro, Hwa Jin Cho, Veronika Maraczi, Ravi Thiagarajan, Lakshmi Raman, Jan Hau, Neyesan Rafat, Lisa Carson Price, Maura O'Callaghan, Mirjana Cvetkovic		26 April 2024 Friday	10:30-11:30	VIP Room
ECMO and Impella	Sebastian Tume, Brigitte Stiller, Peta Alexander, Gail Annich, Malaika Mendonca, Stepan Maruniak, Lisa Carson Price, Luca Marchetto, Alvise Tosoni, Grace Van Leeuwen, Susan Lawrie Maura O'Callaghan, Mirjana Cvetkovic		26 April 2024 Friday	11:45-12:45	VIP Room

Help! Air in the ECMO circuit	Sylvia Belda, Peter Roeleveld, GiacomCavallaro, Andrea Moscatelli, Poonam Malhotra, Victoria Molyneux, Francesc Torres, Maura O'Callaghan, Mirjana Cvetkovic		26 April 2024 Friday	12:45-13:15	VIP Room
ECMO air transport	Lisa Carson Price, Lars Mikael Broman, Sylvia Belda, Chris Harvey, Marisa Vieira, Arianne Willems, Giacomo Cavallaro, Stepan Maruniak, , Luca Marchetto, Alvise Tosoni, Maura O'Callaghan, Mirjana Cvetkovic		26 April 2024 Friday	14:00-15:00	VIP Room

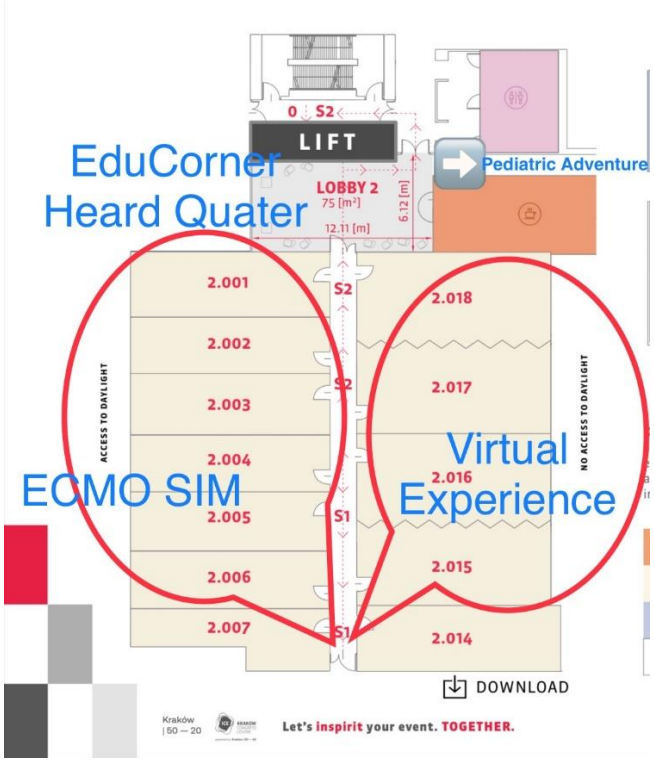
" Come with me where dreams are born, and time is never planned!" *Peter Pan*

Educational Corners are situated on 2nd floor backstage area

Pass the exhibition foyers, up the stairs while having a view on Krakow castle and head to Chamber Hall and hall 4.

Signs will guide you to the Educational Corner's area at lobby 2

Coffee will be available during all corner sessions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