

13th Adult ECMO Training Course Regensburg 2026

21 September – 25 September 2026

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SPITZE IN DER MEDIZIN.
MENSCHLICH IN DER BEGEGNUNG.



Universitätsklinikum
Regensburg



ECMO-Center University Hospital Regensburg

13th ECMO Training Course Regensburg

21.09. – 25.09. 2026

Lecture Theatre A2 (Entrance West)

Dear Colleagues,

extracorporeal life support (ECLS) has by now become an accepted therapeutic option globally for many critically ill patients. We are confident that well managed ECMO can save lives in severe circulatory and respiratory failure in all age groups. While many consider this new technology as the most important innovation in modern Intensive Care Medicine, recent randomized controlled trials also have raised new questions.

ECMO technique is complex, and patients, who need ECMO, are generally in a life-threatening condition. To successfully use ECMO in clinical practice, training and experience are indispensable. Both the knowledge of physiology and efficiency of ECMO, but also of potential complications is needed. Selection of patients, who potentially may profit from extracorporeal support is not easy. Therefore, since 2018 we offer international training courses on ECMO in Regensburg. These courses have been endorsed by ELSO and receive support by the German medical societies DIVI, DGfK and DGTHG. This year, the 13th course will be organized and again is supported by many renowned international experts, a unique opportunity to discuss challenges and advances in ECMO therapy.

The course will include both lectures in the morning and simulation, hands-on and discussions in the afternoon. It shall be an introduction into ECMO therapy in Critical Care today, embedded within state-of-the-art conventional treatment, which will cover both respiratory and circulatory support for adult patients. The main target audience are physicians and perfusionists already involved with ECMO; for nurses a separate course is offered. A printed and electronic script in combination with the ELSO Red Book will supplement the course and allow ongoing training.

On Wednesday we again will include the Network - Symposium "ECMO - State of the Art 2026", where our international faculty will present their thoughts and experiences on controversial topics relevant for current clinical practice.

Regensburg had hosted the 4th international congress of the EuroELSO ten years ago with participants from 65 different nations. Historically, our city was an important mediaeval trading center and served as a bridge from South to North and West to East. In 2006 it was declared a World Heritage Site, and you will surely enjoy the beauty of our Old City in the evenings.

We are looking forward to cordially welcome you in Regensburg,

Thomas Müller
Dirk Lunz

Matthias Lubnow
Maik Foltan

Alois Philipp
Dawid Staudacher

Steffen Pooth

ECMO Centers Regensburg and Freiburg



Programme (preliminary, as of May 2026)

Monday, 21.09.

8:00 – 8:30		Entrance West	
		Registration	
8:30 – 8:45	<i>Müller T</i>	Lecture Theatre A2	
		Welcome and introduction	
8:45 – 9:05	<i>Müller T</i>	Basics 1: history of ECMO and ELSO	
9:10 – 9:35	<i>Philipp A</i>	Basics 2: technique of ECMO - oxygenator, pump, cannula	
9:40 – 10:00	<i>Foltan M</i>	Maintenance of oxygenator and pump, indications for exchange	
10:05 – 10:30	<i>Müller T</i>	Cannulation for VV-ECMO and VA-ECMO: an overview	
10:30 – 11:00	Coffee Break		
11:00 – 11:25	<i>Lubnow M</i>	Conventional therapy of ARDS	
11:30 – 11:55	<i>Müller T</i>	VV-ECMO in severe ARDS: indications, contra-indications, initiation	
12:00 – 12:25	<i>Malfertheiner M</i>	ECCO2R in clinical practice 2026	
12:30 – 12:55	<i>Müller T</i>	Mechanical ventilation on VV-ECMO	
13:00 – 14:00	Lunch Break		
14:00 – 16:00	Kursraum 1	Kursraum 2	ICU 93/B3 or ICU 97/C4
	Group 1 Simulation Case scenarios and Trouble-Shooting <i>Malfertheiner M, Heinze J, Preiss A</i>	Group 2 Management of Cannulas: tips and tricks <i>Wiest C, Lubnow M, Petermichl W, Heinrich M</i>	Group 3 Ward round <i>Dietl A, Müller T, Lunz D, Kees M</i>
16:00 – 16:30	Coffee Break		
16:30 – 18:30	Kursraum 1	Kursraum 2	ICU 93/B3 or ICU 97/C4
	Group 2 Simulation Case scenarios and Trouble-Shooting <i>Malfertheiner M, Heinze J, Preiss A</i>	Group 3 Management of Cannulas: tips and tricks <i>Wiest C, Lubnow M, Petermichl W, Heinrich M</i>	Group 1 Ward round <i>Dietl A, Müller T, Lunz D, Kees M</i>
20:00	Welcome Dinner in Town: “who is who” <div style="text-align: right;">Bischofshof, Krauterermarkt 3</div>		

Tuesday, 22.09.

8:30 – 8:55	<i>Pesenti A</i>	Lecture Theatre A2	
9:00 – 9:25	<i>Fisser C</i>	Complications 1: leg ischemia, thrombosis, HIT	
9:30 – 9:55	<i>Wiest C</i>	Complications 2: bleeding and neurological problems	
10:00 – 10:25	<i>Philipp A</i>	Complications 3: blood cell trauma and technical failure	
10:30 – 11:00	Coffee Break		
11:00 – 11:40	<i>Vandenbriele C</i>	Anticoagulation for ECMO: standards and alternatives, monitoring today	
11:45 – 12:10	<i>Müller T</i>	Hypoxemia on ECMO: what can be done?	
12:15 – 12:40	<i>Lubnow M</i>	Weaning VV-ECMO, weaning failure and further options	
12:45 – 13:45	Lunch Break		
13:45 – 15:45	Kursraum 1	Kursraum 2	Kursraum 3
	Group 3 Simulation Case scenarios and Trouble-Shooting <i>Malfertheiner M, Heinze J, Preiss A</i>	Group 1 Management of Cannulas: tips and tricks <i>Wiest C, Lubnow M, Petermichl W, Heinrich M</i>	Group 2 E-CPR Simulation: Theory and practice <i>Lunz D, Trummer G, Brixius S, Pooth S</i>
15:45 – 16:00	Coffee Break		
16:00 – 18:00	Lecture Theatre A2	ICU 93/B3 or ICU 97/C4	Kursraum 3
	Group 1 Case discussions: how would you decide? <i>Lubnow M, Philipp A</i>	Group 2 Ward round <i>Wiest C, Müller T, Lunz D, Kees M</i>	Group 3 E-CPR Simulation: Theory and practice <i>Lunz D, Trummer G, Brixius S, Pooth S</i>
	Kursraum 1		
	Group 1 Hands-on: Priming, emergency management, trouble shooting <i>Foltan M, Dembianny J</i>		
Evening	no obligations		

Wednesday, 23.09.

8:30 – 8:55	<i>Dietl A</i>	Lecture Theatre A2	
9:00 – 9:25	<i>Lubnow M</i>	(Patho-) physiology of VA-ECMO	
9:30 – 9:55	<i>Brechot N</i>	VA-ECMO: indications, contra-indications, efficiency	
10:00 – 10:25	<i>Lubnow M</i>	Patient management on ECMO: renal failure and transfusion	
10:30 – 11:00	Coffee Break		
11:00 – 11:25	<i>Brechot N</i>	Patient management on VA-ECMO: monitoring and ventilation	
11:30 – 11:55	<i>Staudacher D</i>	Impella: indications and limits	
12:00 – 13:00	<i>Broomé M</i>	Enhancing our understanding: Case simulation with Aplysia	
13:00 – 14:00	Lunch Break		
14:00 – 16:00	Kursraum 1	Kursraum 2	Kursraum 3
	Meet the Industry: Getinge Proven and news: hands-on	Meet the Industry: Fresenius Proven and news: hands-on	Meet the Industry: Resuscitec Proven and news: hands-on
	xxx	yyy	zzz
	Meet the Industry: Medtronic Proven and news: hands-on	Meet the Industry: EuroSets Proven and news: hands-on	Meet the Industry: Life Motion Proven and news: hands-on
	Atrium, Lecture Theatre A2		
16:00 – 16:30	Coffee Break		
16:30 – 18:30	Lecture Theatre A2		
	Network-Symposium: ECMO - State of the Art 2026 <i>Moderation: Müller T, Lubnow M</i>		
	<i>Broome M</i> <i>Balik M</i> <i>Pesenti A</i> <i>Heinrich M</i> <i>Staudacher D</i> <i>Brechot N</i> <i>Dietz C</i> <i>Vandenbriele C</i>	Respiratory Drive and ECMO: Physiological and Clinical Considerations ECMO and drugs: anything different? Cardiac metabolism during VA-ECMO: linking mitochondrial function to myocardial recovery Anticoagulation and ECMO: where our current knowledge fails, and what we should do in future	
18:30 - 19:00	Get Together with Brezel and Beer		

Thursday, 24.09.

8:30 – 8:55	<i>Lunz D</i>	Lecture Theatre A2	
9:00 – 9:25	<i>Pooth S</i>	E-CPR in IHCA and OHCA	
9:30 – 9:55	<i>Müller T</i>	Post resuscitation treatment	
10:00 – 10:25	<i>tba</i>	Neuro prognostication and diagnosis of brain death on ECMO	
10:30 – 11:00	Coffee Break		
11:00 – 11:25	<i>Dietl A</i>	ECMO in the Cath Lab	
11:30 – 11:55	<i>Balik M</i>	Ultrasound and ECMO	
12:00 – 12:25	<i>Müller T</i>	Unloading the left ventricle: when and how?	
12:30 – 12:55	<i>Preiss A</i>	Weaning from VA-ECMO	
13:00 – 14:00	Lunch Break		
14:00 – 16:00	Kursraum 3	ICU 90/C2	Kursraum 2
	Group 3 Hands-on: Priming, emergency management, trouble shooting <i>Foltan M, Dembianny J</i>	Group 2 Proning on ECMO: practical aspects <i>Steinmann J and Team 90, Hoibl E, Schettler F</i>	Group 1 E-CPR Simulation: Theory and practice <i>Lunz D, Trummer G, Brixius S, Pooth S</i>
	Kursraum 3	ICU 90/C2	
	Group 2 Hands-on: Priming, emergency management, trouble shooting <i>Foltan M, Dembianny J</i>	Group 3 Proning on ECMO: practical aspects <i>Steinmann J and Team 90, Hoibl E, Schettler F</i>	
16:00 – 16:30	Coffee Break		
16:30 – 17:30	Kursraum 3	ICU 90/C2	Lecture Theatre A2
	Group 2 Case discussions: how would you decide? <i>Müller T, Lubnow M</i>	Group 1 Proning on ECMO: practical aspects <i>Steinmann J and Team 90, Hoibl E, Schettler F</i>	Group 3 Case discussions: how would you decide? <i>Lunz D, Philipp A</i>
from 18:00	Cases, Questions, Discussions, Bavarian Beer and Food <i>Müller T, Lubnow M, Dietl A</i>		
Hubertushöhe, Wilhelm Raabe Str.1			

Friday, 25.09.

8:30 – 8:55	<i>Jannsen HJ</i>	ECMO in severe trauma and burns	Lecture Theatre A2
9:00 – 9:25	<i>Wiest C</i>	Long-term outcome: what can be expected	
9:30 – 9:55	<i>Broome M</i>	Ethical challenges in ECMO therapy	
10:00 – 10:25		Questions and discussion	
10:30 – 11:00	Coffee Break		
11:00 – 11:25	<i>Müller T</i>	ECMO in septic shock and massive pulmonary embolism	
11:30 – 11:55	<i>Lubnow M</i>	Hybrid ECMO: when, which, what problems?	
12:00 – 12:25	<i>Birkeneder M</i>	Transport on ECMO	
12:30 – 13:00	<i>Müller T</i>	Summary and review of the most Important	
13:00 – 14:00	Lunch Break and group photo		
14:00 – 14:30	Knowledge Assessment <i>Lubnow M, Lunz D, Philipp A, Müller T.</i>		Lecture Theatre A2
14:30 – 15:00	Course Evaluation, final discussion <i>Lubnow M, Lunz D, Philipp A, Müller T.</i>		Lecture Theatre A2
15:00	Coffee Break and Fare Well		

Faculty:

Prof. Dr. Martin Balik, Dept. of Anaesthesia and Intensive Care, 1st Medical Faculty, Charles University, Prague

Dr. Melanie Birkeneder, Department for Anesthesiology, University Hospital Regensburg

Prof. Dr. Nicolas Brechet, Médecine Intensive-Réanimation, AP-HP.Centre – Université Paris Cité, France

Dr. Sam Brixius, University Hospital Freiburg, Germany

Prof. Dr. Michael Broomé, ECMO ICU, Karolinska University Hospital, Stockholm, Sweden

Jan Dembianny, Perfusion Department, Department for Cardio-thoracic Surgery, UK Regensburg

PD Dr. Alexander Dietl, Department for Internal Medicine II, University Hospital Regensburg

Dr. Cara Dietz, Department for Internal Medicine II, University Hospital Regensburg

Prof. Dr. Christoph Fisser, Clinic for Pulmonology Donaustauf, Germany

Dr. Maik Foltan, Perfusion Department, Department for Cardio-thoracic Surgery, University Hospital Regensburg

Dr. Maria Heinrich, Department of Internal Medicine II, University Hospital Regensburg

Johannes Heinze, Perfusion Department, Department for Cardio-thoracic Surgery, UK Regensburg

Elisabeth Hoibl, Department for Physical Therapy, University Hospital Regensburg

Jannsen Hans-Joachim, Department for Anesthesiologie, BG Klinikum Unfallkrankenhaus Berlin

PD Dr. Martin Kees, Department for Anesthesiology, University Hospital Regensburg

Prof. Dr. Matthias Lubnow, Department for Internal Medicine II, University Hospital Regensburg

Prof. Dr. Dirk Lunz, Department for Anesthesiology, University Hospital Regensburg

Prof. Dr. Maximilian Malfertheiner, Clinic for Pulmonology Donaustauf, Germany

Prof. Dr. Thomas Müller, Department for Internal Medicine II, University Hospital Regensburg

Prof. Dr. Antonio Pesenti, emeritus, University of Milan

PD Dr. Walter Petermichl, Department for Anesthesiology, University Hospital Regensburg

Alois Philipp, University Hospital Regensburg

Dr. Steffen Pooth, University Hospital Freiburg, Germany

Dr. Adrian Preiss, Department for Nephrology, University Hospital Regensburg

Frank Schettler, Perfusion Department, Department for Cardio-thoracic Surgery, UK Regensburg

Peter Schüller, Department for Anesthesiology, University Hospital Regensburg

Prof. Dr. Dawid Staudacher, Interdisciplinary Center for Intensive Care Medicine, University Hospital Freiburg, Germany

Dr. Johannes Steinmann, Department for Surgery, University Hospital Regensburg

Prof. Dr. Christophe Vandenbrielle, Cardiovascular Center Aalst, Belgium and Royal Brompton/Harefield Hospitals, London

Frank-Peter Visser, Department for Anesthesiology, University Hospital Regensburg

PD Dr. Clemens Wiest, Department for Internal Medicine II, University Hospital Regensburg