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**Adult ECMO Training Course Regensburg 2019**

**Venue and Date**

**September 30 - October 4, 2019**

University Hospital Regensburg  
 Lecture hall A2 and course rooms (West entrance)

Yes, I am participating (**IEC-1909**)

Your registration is binding. In case of a cancellation the cancellation statement must be in writing.

Title .....

First name .....

Last name .....

Profession .....

ECMO experience (in years) .....  VV  VA

Hospital .....

Department .....

Address .....

Phone .....

Mail .....

Date Signature

**Scientific Committee**

PD Dr. Matthias Lubnow,  
 Mr. Alois Philipp,  
 Prof. Dr. Thomas Müller,  
 Dr. Dirk Lunz,  
 PD Dr. Daniele Camboni  
 ECMO Centre University Hospital Regensburg  
 University Hospital Regensburg

**Venue**

University Hospital Regensburg  
 Lecture hall A2 and course rooms (West entrance)  
 Franz-Josef-Strauß-Allee 11  
 93053 Regensburg, Germany

**Organisation**

University Hospital Regensburg  
 Conference Division UK3  
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 Franz-Josef-Strauß-Allee 11  
 93053 Regensburg, Germany  
 Phone: +49 941 944-4230,  
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**Participation Fee**

Early bird until July, 31, 2019 1500 €  
 Regular fee after July, 31, 2019 1750 €  
 Travel and accommodation costs not included.  
 Number of participants will be restricted to 24.

**Participation Fee**

After your successful registration you will receive an invoice concerning your participation fee during the next days by email. Once registered your registration is binding. All payments must be made prior to the conference. Participation fees are due upon receipt of invoice without deduction. Please transfer the invoice amount before the event date. In case of a cancellation the cancellation statement must be in writing. The following processing fees apply: 8-3 working days before the event 50% of participation fee. In case of too late cancellation or absence without written cancellation the entire fee will be charged. A substitute participant may be submitted at any time.

Your participation at this event is also an agreement that any film or photo material taken during the event may be publicly used on behalf of the UKR.

**Sponsors**

Fresenius Medical Care GmbH 2,000 €  
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„ECMO –  
 bridge to future“

ECMO Centre University Hospital Regensburg

**2<sup>ND</sup> ADULT ECMO TRAINING COURSE  
 REGENSBURG 2019**

Lecture hall A2 and course rooms (West entrance)

September 30 - October 4 2019

[www.ecmo-regensburg.de](http://www.ecmo-regensburg.de)



## Dear colleagues,

Extracorporeal life support (ECLS) continues to rapidly expand worldwide and has become an accepted therapeutic option for critically ill patients. Modern ECMO can save lives in severe circulatory and respiratory failure in all age groups. Many consider this new technology as the most important innovation in recent intensive care medicine.

However, to be successful, training and experience are indispensable. Both the knowledge of efficiency of ECMO, but also of potential complications is needed. This had inspired us last year to offer a course on ECLS for adult patients at the ECMO Center of Regensburg. As the response was very positive, and ELSO officially endorsed the course, we want to repeat this training opportunity on an annual basis. The course, including both lectures and hands-on, will again be an introduction into ECMO therapy in Critical Care today, embedded within state-of-the-art conventional treatment. A printed and electronic script in combination with the ELSO Red Book will allow ongoing training.

Regensburg has hosted the 4th international congress of the EuroELSO in 2015. As an important mediaeval trading centre, Regensburg served as a bridge from south to north and west to east. You will be able to enjoy the beauty of our old city in the evenings. Extracorporeal life support therapies likewise may serve in many instances as a bridge, a bridge to survival.

We cordially welcome you to participate at this forthcoming training event in Regensburg.

Thomas Müller    Alois Philipp    Dirk Lunz    Matthias Lubnow

## Preliminary Program

### Monday, September 30, 2019

- 08:00 **Registration**
- 08:30 **Welcome and introduction**
- 08:45 **History of ECMO and ELSO**
- 09:15 **Basics: Physiology of gas transfer**
- 09:45 **Basics: The ECMO Circuit**
- 10:15 **Questions/discussion**
- 10:30 **Coffee Break**
- 11:00 **Mechanical ventilation in ARDS, adjunctive options**
- 11:30 **VV-ECMO in severe ARDS: indications, contraindications and initiation**
- 12:00 **VV-ECMO: mechanical ventilation**
- 12:30 **Lunch Break**
- 13:30 **Group 1, 2, 3: Hands-on: Getting**  
**Group 4, 5, 6: Practical aspects of ECLS transport**
- 15:30 **Coffee Break**
- 16:00 **Group 1, 2, 3: Practical aspects of ECLS transport**  
**Group 4, 5, 6: Hands-on: Getting**
- 18:00 **End of Program – Day 1**

Evening [Welcome Dinner in Town](#)

### Tuesday, October 1, 2019

- 08:30 **ECCO<sub>2</sub>R: Technique and devices, efficiency**
- 09:00 **ECCO<sub>2</sub>R in COPD and ARDS**
- 09:30 **Complications 1: Cannulation**
- 10:00 **Questions/discussion**
- 10:30 **Coffee Break**
- 11:00 **Group 1, 2, 3: Hands-on: Xenios**  
**Group 4, 5, 6: Hands-on: LivaNova**
- 13:00 **Lunch Break**
- 14:00 **Group 1, 2, 3: Hands-on: LivaNova**  
**Group 4, 5, 6: Hands-on: Xenios**
- 16:00 **Coffee Break**
- 16:30 **When not to do ECMO – contraindications and ethical considerations**
- 17:00 **Case presentation and discussion: Tracheotomy, extubation, mobilization**
- 18:00 **End of Program – Day 2**

### Wednesday, October 2, 2019

- 08:30 **Advanced cardiac life support 2019**
- 09:00 **VA-ECMO: Indication, contra-indication, cannulation**
- 09:30 **VA-ECMO: Patient management, monitoring, ventilation**
- 10:00 **VA-ECMO: Unloading of the left ventricle**
- 10:30 **Coffee Break**
- 11:00 **E-CPR for IHCA and OHCA**
- 11:30 **ECMO in pulmonary embolism**
- 12:00 **Weaning from VA-ECMO, weaning failure and further options**
- 12:30 **Lunch Break**
- 13:30 **Group 1, 2: Simulation and trouble-shooting**  
**Group 3, 4/5, 6: Practical aspects of in-hospital transport**  
**Group 5, 6/3, 4: Practice of proning and mobilization**
- 15:30 **Coffee Break**
- 16:00 **Group 1, 2: Simulation and trouble-shooting**  
**Group 3, 4: Practical aspects of in-hospital transport**  
**Group 5, 6: Practice of proning and mobilization**
- 18:00 **End of Program – Day 3**

### Thursday, October 3, 2019

- 08:30 **Anticoagulation on ECMO: Standards**
- 09:00 **Complications 2: Thrombosis, HIT, hemolysis**
- 09:30 **Complications 3: Bleeding and neurological problems**
- 10:00 **Neuro-prognostication**
- 10:30 **Coffee Break**
- 11:00 **Trouble shooting hypoxemia on ECMO and thresholds for transfusion**
- 11:30 **Preventive maintenance of devices and indication for exchange**
- 12:00 **What went wrong? Case discussions**
- 12:30 **Lunch Break**
- 13:30 **Group 1, 2: Flow physiology of cannulation**  
**Group 3, 4/5, 6: Flow physiology of cannulation**  
**Group 5, 6/3, 4: Simulation and trouble-shooting**
- 15:30 **Coffee Break**
- 16:00 **Ward Rounds and Case Presentations**
- 17:30 **End of Program – Day 4**

### Friday, October 4, 2019

- 08:30 **ECMO in septic shock**
- 09:00 **Practical tips: hemofiltration and beyond**
- 09:30 **ECMO in multiple trauma**
- 10:00 **VVA and VAV ECMO: When and how**
- 10:15 **Coffee Break**
- 10:45 **Weaning from VV-ECMO, weaning failure and further options**
- 11:15 **Quality requirements for an ECMO center**
- 11:45 **Questions and Discussion**
- 12:15 **Knowledge assessment**
- 12:45 **Evaluation and final discussion**
- 13:00 **Lunch Break**
- 14:00 **Group photo and end of program**