## Speakers

**Katja Auinger, KD Dr.**
Attending Physician
Institute of Intensive Care Medicine
University Hospital Zurich

**David Berger, Dr.**
Hospital Specialist I
University Clinic for Intensive Care Medicine
University Hospital Bern

**Matthias Hilty, Dr.**
Attending Physician
Institute of Intensive Care Medicine
University Hospital Zurich

**Mark Konrad, Dr.**
Head of Medical
Getinge – PULSION Medical Systems SE

**Xavier Monnet, Prof. Dr.**
Professor of Intensive Care Medicine
Bicêtre Hospital
Paris-South University Hospitals

**Marco Maggiorini, Prof. Dr.**
Head of Medical Intensive Care Unit
Institute of Intensive Care Medicine
University Hospital Zurich

**Bernd Saugel, Prof. Dr.**
Senior Medial Officer
Department of Anesthesiology
Center of Anesthesiology and Intensive Care Medicine
University Medical Center Hamburg-Eppendorf

## Information

**When**
Thursday – Friday, March 5 – 6th, 2020

**Contact**
University Hospital Zurich
Ulrike Plüss
medizinische.ips@usz.ch
+41 44 255 30 92

**Organizer**
Marco Maggiorini, Prof. Dr.
Head of Medical Intensive Care Unit
Institute of Intensive Care Medicine
University Hospital Zurich

**Registration**
Sign up as quick as possible as there are only limited seats in the course.
Send an e-mail to medizinische.ips@usz.ch

The course costs are 250 Swiss Francs.
Your seat in the course will be confirmed upon receipt of your payment.

**Credits**
CME credits are applied for at SGI, SGAR, SGAIM.

**Location**
Careum 2
2nd floor, Room 290
Gloriastrasse 18
8006 Zurich
Switzerland

**Directions**
Tramlines 5, 6 to tram stop Platte.
Parking is not available on site.


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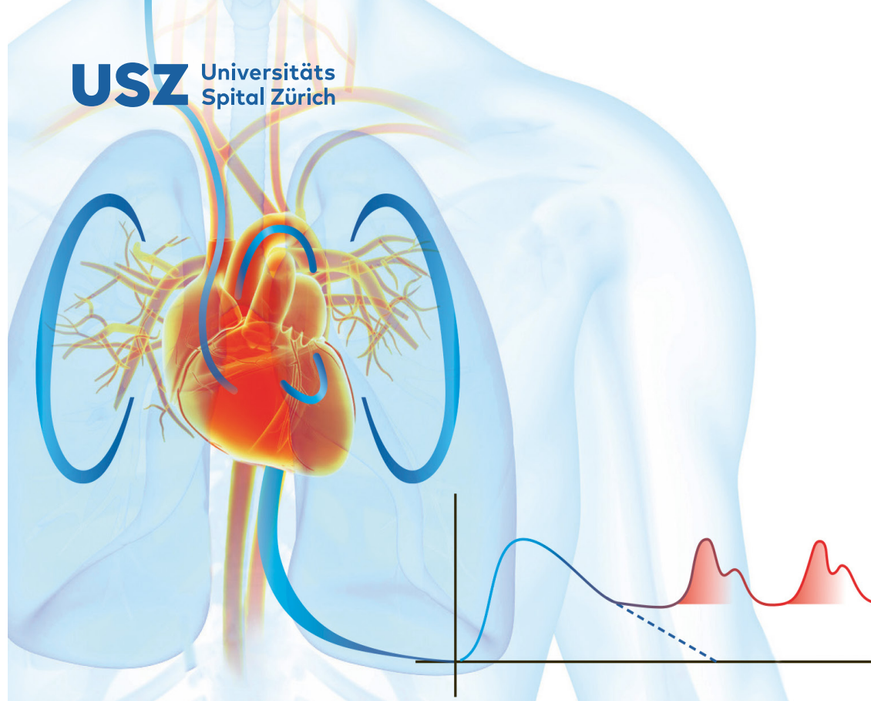

Workshop

# Basic Course on Calibrated Continuous Cardiac Output Monitoring

Thursday – Friday, March 5 – 6th, 2020
Careum 2, Zurich, Switzerland

# Course specifications

**What is the course about?**
This is a two days course on advanced hemodynamic monitoring using the calibrated continuous cardiac output monitoring technique. This course is tailored for trainees in critical care, anesthesia, and emergency medicine but we also welcome intensive care physicians who want to refresh their knowledge.

During the course you will learn about all aspects around the technique and the pathophysiology of cardiovascular failure. The main course learning objectives are:

- to learn about the structural characteristics and the physiologic properties of the systemic circulation
- to understand the concept of transpulmonary thermodilution technique and to interpret the variables derived from this technology in the clinical context of the hemodynamic unstable intensive care patient
- to learn about the physiology and the pathophysiology of the systemic microcirculation in different conditions of acute circulatory failure

**How will you learn?**
In our course we limit the numbers of frontal lectures in order to leave enough space for interactive case based discussions with experts in the field. You will find the essentials of theoretical knowledge on advanced hemodynamic monitoring, clinical cases and pre-course MCQs for self-assessment in the course booklet that you will receive in advance.


Katja Auinger, KD Dr.
Attending Physician

Matthias Hilty, Dr.
Attending Physician

Marco Maggiorini, Prof. Dr.
Head Medical Intensive Care Unit


# Program

## Thursday, March 5th

**09.45 h** **Welcome and Registration**
Marco Maggiorini

**10.15 h** **Introduction**
Marco Maggiorini

**10.30 h** **Structure and Physiology of the Systemic Circulation**
Matthias Hilty

**11.10 h** **Arterial Blood Pressure**
Bernd Saugel

**11.50 h** **Cardiac Output Monitoring:**
**Principles of Transpulmonary Thermodilution and Pulse Contour Analysis**
Xavier Monnet

**12.30 h** Lunch Break

**13.30 h** **Cardiac Output Monitoring:**
**Limitations of Transpulmonary Thermodilution and Pulse Contour Analysis**
Bernd Saugel

**14.15 h** **Case Based Training 1**
**Hypertensive Emergency, Fluid Resuscitation and Calibrated Continuous Cardiac Output Monitoring Technology**
Xavier Monnet, David Berger, Matthias Hilty – Mark Konrad

**16.15 h** Coffee Break

**16.45 h** **Physiology and Pathophysiology of Pulmonary Oedema**
Marco Maggiorini

**17.30 h** Aperitif

**19.10 h** Speaker's Dinner

## Friday, March 6th

**08.15 h** **Pathophysiology of Shock**
David Berger

**08.55 h** **The Microcirculation in Shock**
Matthias Hilty

**09.35 h** Coffee Break

**10.05 h** **Case Based Training 2**
**Septic Shock, Cardiogenic Shock and ARDS**
Bernd Saugel, Xavier Monnet, Katja Auinger

**12.05 h** Lunch Break

**13.05 h** **Case Based Training 3**
**Bedside Teaching and Simulation on Acute Circulatory Failure**
Matthias Hilty – Mark Konrad, Marco Maggiorini – David Berger, Katja Auinger

**15.10 h** **Self-Assessment by Multiple-Choice Questions**
Katja Auinger

**15.40 h** **Get the Picture Together: Multiple-Choice Questions Discussion**
Katja Auinger

**16.10 h** **Conclusive Remarks and End of the Course**
Marco Maggiorini