

Visual
Medicine



We would like to invite you to the postgraduate course on

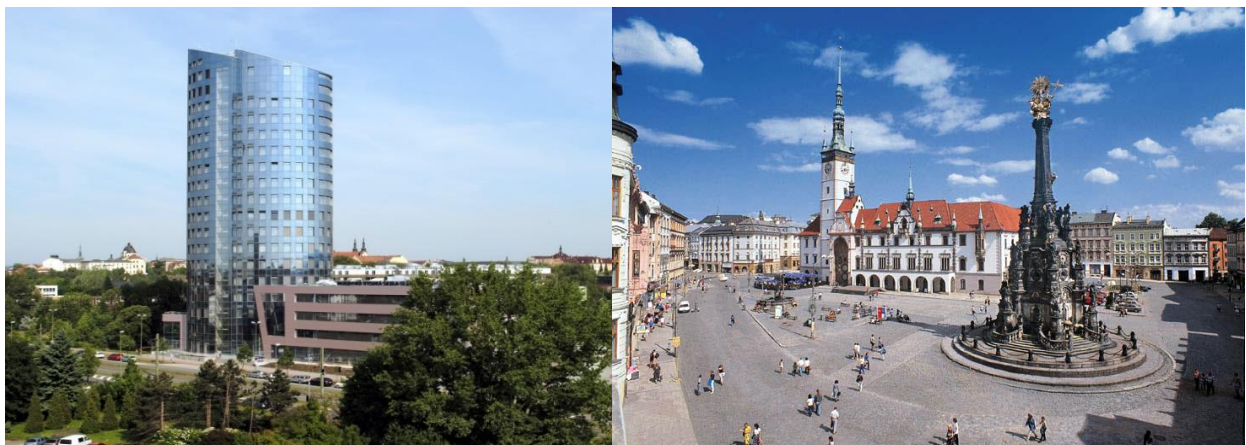
Ultrasound in intensive and emergency medicine

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Basics of the Point Of Care Ultrasound

taking place on **4.-8.June 2018** in **Olomouc, Czech Republic.**

This course is endorsed by the
EFSUMB (European Federation of Societies for Ultrasound in Medicine and Biology)
and
ČSUM (Czech Society for Ultrasound in Medicine).



The course is intended for physicians beginning or already working with ultrasound in the ICUs, EDs, EMSs or anesthesiology departments. Our aim is to provide an introduction for the beginners as well as to improve knowledges and skills of advanced users of this modern and evolving tool in the acute medicine. We put great emphasis on practical training in small groups of participants.

Course schedule	5-6 days (see below), instructor:participant ratio of max.1:4
Venue	Bea Centrum, Kosmonautů 1, 779 00 Olomouc, Czech Republic
Registration	via e-mail kurzy@visualmedicine.cz
Fees	790 Euro (by 20 April 2018), 890 Euro (by 1 June 2018) , Fee incl.VAT

The fee includes: course attendance, coffee break and lunch during the course, brief handouts with an educational abstract

Accommodation	Not provided. The venue is located direct near the city centre with a lot of accomodation facilities.
Course language	English

Instructors

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Course organizer

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Course Schedule

Day 1 **Basics of the transthoracic echocardiography 1**

08:30 - 08:35 introduction

08:35 - 10:15 physical principles of ultrasound, setting of the ultrasound machine

10:30 - 12:00 basic transthoracic views, identification of heart structures

12:00 - 13:00 hands-on training

13:00 - 14:00 lunch

14:00 - 14:45 systolic function of the hearth

14:45 - 17:00 hands-on training

17:00 discussion, end of the day 1

Day 2 **Basics of the transthoracic echocardiography 2**

08:30 - 09:30 hearth valves, morfology and function, valve palologies

09:30 - 10:45 hands-on training

11:00 - 11:45 pericardium, great vessels - normal findings and basic pathologies

11:45 - 12:30 hands-on training

12:30 - 13:30 lunch

13:30 - 14:30 diastolic function of the hearth

14:30 - 17:00 hands-on training

17:00 discussion, end of the day 2

Day 3 **Lung ultrasound**

08:30 - 09:00 principles of the lung ultrasound, setting of the ultrasound machine

09:00 - 09:15 propedeutics in lung ultrasound

09:15 - 09:45 normal findings (lung sliding, A-lines, lung puls, no-PLAPS)

09:45 - 10:15 hands-on training

10:30 - 11:30 pathological findings (B-lines, C-lines, shred sign)

11:30 - 12:00 hands-on training

12:00 - 13:00 lunch

13:00 - 13:45 pathological findings (pneumothorax)

13:45 - 14:15 hands-on training

14:30 - 15:30 pathological findings (PLAPS, bronchograms)

15:30 - 17:00 hands-on training

17:00 discussion, end of the day 3

Day 4 **Hemodynamic monitoring using ultrasound**

08:30 - 09:45 basic pathophysiology of hemodynamics, measurement of cardiac output, fluid responsiveness

10:00 - 12:00 hands-on training

12:00 - 12:30 FEEL protocol

12:30 - 13:00 lunch

13:15 - 14:00 shock states and fluid responsiveness displayed by ultrasound, FALLS protocol

Basics of the vascular ultrasound and Ultrasound guided vascular accesses

14:10 - 15:00 vascular ultrasound in the ICU - normal findings, venous thrombosis

15:00 - 16:00 hands-on training

16:15 - 16:45 ultrasound guided puncture and catheterisation of central vein, periphery vein and artery

16:45 - 18:30 hands-on training - manual skills

18:30 end of the day 4

Day 5 **FAST and Basics of abdominal ultrasound in acute medicine**

08:30 - 09:30 normal findings in the abdominal ultrasound, identification of structures
FAST (Focused Assessment with Sonography in Trauma)

09:30 - 11:30 hands-on training

11:30 - 12:30 presentation of the main abdominal pathologies

12:30 - 13:30 lunch

Diferencial diagnosis of dyspnea using ultrasound

13:30 - 14:30 diferencial diagnosis of dyspnea using ultrasound , BLUE protocol
diagnosis of pulmonary embolism

14:30 - 16:50 hands-on training (sonography in dyspnea)

16:50 - 17:00 discussion, end of the course

Day 6 **The sixth day**

We offer the sixth day (Saturday, 9 June 2018, 8:30 - 14:30) with **whole day hands-on training** in small groups for participants wanting to train new skills in order to repeat main topics presented in previous days.

The participation on this day is not included in the course fee. The sixth day fee does 150 Euro incl.VAT.

If you were interested in the sixth day, please tell it us by your course registration.