

12-13 March 2010
Danubius Health Spa Resort Helia, Budapest
Neurosonology Teaching Course and Exam

12 March 2010, Friday

09:00-10:00 Basics and Physics of Ultrasound – D. Skoloudik

- CW Doppler
- PW Doppler
- B-mode/real time imaging
- color-flow imaging
- safety of ultrasound
- questions (last 15 minutes)

10:00-11:00 Setting the ultrasound equipment –D. Skoloudik/M. Siebler

- different buttons
- setting of different parameters (angle, gain, power, depth, scale...) and their influence on the image and the spectrum
- ultrasound artifacts – avoidance of artifacts
- questions (last 15 minutes)

11:00-11:30 Coffee break

11:30 – 12:30 Duplex sonography of carotid and vertebral arteries – E. Titianova

- techniques
- spectral analysis
- plaque morphology
- interpretation/criteria of stenoses
- praeocclusive stenosis
- dissection
- stent
- questions (last 15 minutes)

12:30-14:00 Lunch

14:30-15:30 TCD – M. Siebler

- setting of the equipment
- detection of different arteries
- spectral analysis
- criteria of stenoses
- embolus detection
- PFO
- vasoreactivity
- brain death
- questions (last 15 minutes)

15:30-16:30 TCCD – C. Baracchini

- setting of the equipment
- anatomy on TCCD images
- criteria of stenoses
- questions (last 15 minutes)

16:30-17:00 Coffee break

17:00-18:30 Theoretical test/60 questions

13 March 2010, Saturday

i) For those who passed the theoretical exam successfully

08:00-12:00 Practical exam for participants with successful theoretical exam

12:00-14:00 Lunch

14:00-18:00 Practical exam for participants with successful theoretical exam

ii) For those who did not pass the theoretical exam successfully

08:00-12:00 TCD Workshops for other participants (with no successful theoretical exam)

- Functional TCD (vasoreactivity, neurovascular coupling) – L. Olah
- Contrast agents and TCD – M. Siebler
- Ultrasound enhanced thrombolysis – Z. Garami
- Microembolus detection – V. Kemeny, Z. Garami