

# TEACHING COURSES

## Teaching Course 1 Fundamental concepts in extracranial assessment

8h00-12h30	<b>Chairpersons:</b> Claudio Baracchini and Ana Catarina Fonseca
	Theoretical concepts
8h00-8h30	<b>TC#1 Fundamental concepts on Carotid and Vertebral Artery insonation.</b> Laszlo Olah
8h30-9h00	<b>TC#2 Have all problems concerning grading stenosis been solved?</b> Gerhard-Michael von Reutern
9h00-9h30	<b>TC#3 Comprehensive assessment of Large Vessel Vasculitis.</b> Arijana Lovrencic Huzjan
9h30-10h00	<b>TC#4 How to diagnose an arterial dissection?</b> Claudio Baracchini
10h00-10h30	Coffee break
10h30-12h30	Practical demonstrations
	<b>Station A, Study of extracranial carotid system;</b> tutor: Miguel Rodrigues
	<b>Station B, Study of extracranial vertebral arteries;</b> tutor: Laszlo Olah
	<b>Station C, Neurosonological assessment of Large Vessel Vasculitis;</b> tutor: Arijana Lovrencic Huzjan
	<b>Station D, Integrated extracranial arterial assessment;</b> tutor: David Rodriguez-Luna

# TEACHING COURSES

## Teaching Course 2 Transcranial monitoring tools

8h00-12h30	<b>Chairpersons:</b> Andrei Alexandrov and Manuel Manita
	Theoretical concepts
8h00-8h30	<b>TC#5 Fundamental concepts of TCD studies.</b> Andrei Alexandrov
8h30-9h00	<b>TC#6 Hemodynamic regulation and monitoring at the stroke unit.</b> Pedro Castro
9h00-9h30	<b>TC#7 Monitoring at neurocritical care unit.</b> Raimund Helbok
9h30-10h00	<b>TC#8 Collateral pathways.</b> Ricardo Varela
10h00-10h30	Coffee break
10h30-12h30	Practical demonstrations
10h30-11h00	<b>Station A: Right-left shunt demonstration;</b> tutor: Mark Rubin (all formands)
11h00-12h30	<b>Station B: Neuro Monitoring Analysis;</b> tutor: Arjen Schaafsma
	<b>Station C: Microemboli detection;</b> tutor: Werner Mess
	<b>Station D: Functional TCD;</b> tutor: Nevzat Uzuner

# TEACHING COURSES

## Teaching Course 3 Neuromuscular Disorders

8h00-12h30	<b>Chairpersons:</b> Luca Padua and Stephan Schreiber
	Theoretical concepts
8h00-8h30	<b>TC#9 Basic Principles of Muscle and Nerve Ultrasonography.</b> Luca Padua
8h30-9h00	<b>TC#10 Muscle ultrasound.</b> Nens van Alfen
9h00-9h30	<b>TC#11 Ultrasound in peripheral nerves and polyneuropathies.</b> Stephan Schreiber
9h30-10h00	<b>TC#12 Ultrasound in Treatment and Rehabilitation.</b> Daniele Coraci
10h00-10h30	Coffee break
10h30-12h30	Practical demonstrations
	<b>Station A, Peripheral nerves of the upper limbs;</b> tutor: Stephan Schreiber
	<b>Station B, Lower limb neuromuscular ultrasound;</b> tutor: Nens van Alfen
	<b>Station C, Ultrasound in neuromuscular disorders;</b> tutor: Olivera Jovanikic
	<b>Station D, Integration of ultrasound with EMG findings;</b> tutor: Daniele Coraci

# TEACHING COURSES

## Teaching Course 4 Fundamental concepts in intracranial assessment

13h30-18h00	<b>Chairpersons:</b> Aleksandra Pavlovic and Methil Pradeep
	Theoretical concepts
13h30-14h00	<b>TC#13 Advanced protocol of arterial TCCS.</b> José Valdueza
14h00-14h30	<b>TC#14 Intracranial stenosis and occlusions.</b> Eva Bartels
14h30-15h00	<b>TC#15 Neurosonology in acute stroke.</b> Markus Kneihsl
15h00-15h30	<b>TC#16 Ultrasound study of Basal Ganglia.</b> Milija Mijajlovic
15h30-16h00	Coffee break
16h00-18h00	Practical demonstrations
	<b>Station A, Circle of Willis with TCCD;</b> tutor: José Valdueza
	<b>Station B, Intracranial vertebrobasilar system with TCCD;</b> tutor: Eva Bartels
	<b>Station C, Intracranial studies with TCD;</b> tutor: Markus Kneihsl
	<b>Station D, Basal ganglia ultrasound;</b> tutor: Milija Mijajlovic

# TEACHING COURSES

## Teaching Course 5 Ultrasound guided procedures

13h30-18h00	<b>Chairpersons:</b> Matthias Sturzenegger and Caterina Kulyk
	Theoretical concepts
13h30-14h00	<b>TC#17 Ultrasound guided Lumbar Puncture.</b> Milan Vosko
14h00-14h30	<b>TC#18 Botulinum Toxin Guided by ultrasound.</b> Uwe Walter
14h30-15h00	<b>TC#19 Neurosonological monitoring of cardiac interventions.</b> Zsolt Garami
15h00-15h30	<b>TC#20 Ultrasound-guided management of peripheral vascular accesses in Stroke Units and ICU.</b> Fernando Silva
15h30-16h00	Coffee break
16h00-18h00	Practical demonstrations
	<b>Station A, Botulinum toxin;</b> tutor: Uwe Walter
	<b>Station B, TCD monitoring of carotid and cardiac interventions;</b> tutor: Zsolt Garami
	<b>Station C, Lumbar puncture;</b> tutor: Milan Vosko
	<b>Station D, Ultrasound study of vascular accesses;</b> tutor: Marco Simões

# TEACHING COURSES

## Teaching Course 6 NeuroPOCUS: Point of Care Ultrasound in Neurology

13h30-18h00	<b>Chairpersons:</b> Jurgita Valaikiene and Elsa Azevedo
	Theoretical concepts
13h30-14h00	<b>TC#21 The concept of NeuroPOCUS.</b> Manfred Kaps
14h00-14h30	<b>TC#22 NeuroPOCUS in acute care and monitoring.</b> David Skoloudik
14h30-15h00	<b>TC#23 NeuroPOCUS in prehospital and in outpatient clinic.</b> Felix Schlachetzki
15h00-15h30	<b>TC#24 Assessment of ocular pathology and intracranial pressure.</b> Jelena Potic
15h30-16h00	Coffee break
16h00-18h00	Practical demonstrations
	<b>Station A, Transorbital ultrasound;</b> tutor: Piergiorgio Lochner
	<b>Station B, Extra and intracranial assessment by Duplex sonography;</b> tutor: Nathalie Nasr
	<b>Station C, Intracranial assessment with TCD;</b> tutor: Felix Schlachetzki
	<b>Station D, Focused echocardiography;</b> tutor: Jorge Pagola