

Basic Course in Vascular Ultrasound
01-02.11.2022.



Serbian Society for Cardiovascular Surgery, Belgrade, Serbia

Hours	Day 1	Day 2
9:00 - 9:15	Registration	Lect 3 Welcome again , questions/reflection from yesterday.
9:15 - 9:30	Lect 1 Introduction, presentation of the programme and faculty, why ultrasound can be valuable for daily practice, and getting started "Buttonology" - an ultrasound crash-course to prepare for hands-on sessions.	Ultrasound physics in detail: From sound to B-mode image, ,spectral analysis and waveforms, colour duplex, pulse repetition frequency, peak-systolic velocity etc.
9:30 - 9:45		
9:45 - 10:00		Short break
10:00 - 10:15	Break and prepare for hands-on	Lect 4 Ultrasound physics in detail: From sound to B-mode image, ,spectral analysis and waveforms, colour duplex, pulse repetition frequency, peak-systolic velocity etc.
10:15 - 10:30	Hands-on sessions I: 6 teams of 4 participants. Rotation between 6 workstation. The first station; tutor demonstration (10 min) followed by hands-on (10 min/participant) on claudicants.	
10:30 - 10:45	Then, rotation on remaining five stations (5 min per participant).	Short break
10:45 - 11:00		Lect 5 Carotid ultrasound: Ultrasound anatomy and detection of stenosis.
11:00 - 11:15	Short break	
11:15 - 11:30	Hands-on sessions I: 6 teams of 4 participants. Rotation between 6 workstation. The first station; tutor demonstration (10 min) followed by hands-on (10 min/participant) on claudicants.	Lect 6 AAA surveillance, detection, and true diameter.
11:30 - 11:45	Then, rotation on remaining five stations (5 min per participant).	
11:45 - 12:00		Short break
12:00 - 12:15	Short break	Lect 7 Varicose veins, superficial and deep venous insufficiency.
12:15 - 12:30	Hands-on sessions I: 6 teams of 4 participants. Rotation between 6 workstation. The first station; tutor demonstration (10 min) followed by hands-on (10 min/participant) on claudicants.	Lunch
12:30 - 12:45	Then, rotation on remaining five stations (5 min per participant).	
12:45 - 13:00	Lunch	
13:00 - 13:15		Hands-on sessions II: Superficial venous insufficiency stations (n=1), DVT or varicose vein patient (n=1) Carotid (n=2), and AAA (2)
13:15 - 13:30	Lect 2 Lower limb arterial duplex scan, Lower limb arterial duplex scan, "ultrasound anatomy", detection of stenosis, control of infra-ligamentary bypass, and US guided puncture.	
13:30 - 13:45		Short break
13:45 - 14:00	Hands-on sessions II: Infraligamentary vein bypass (1), Claudicant with central stenosis (2), PAD patient with SFA lesions (2), US-guided puncture phantom (1).	Hands-on sessions II: Superficial venous insufficiency stations (n=1), DVT or varicose vein patient (n=1) Carotid (n=2), and AAA (2)
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00	Short break	Short break
15:00 - 15:15	Hands-on sessions II: Infraligamentary vein	Hands-on sessions II: Superficial venous

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15:15 - 15:30	bypass (1), Claudicant with central stenosis (2), PAD patient with SFA lesions (2), US-guided puncture phantom (1).	insufficiency stations (n=1), DVT or varicose vein patient (n=1) Carotid (n=2), and AAA (2)
15:30 - 15:45		
15:45 - 16:00	Short break	Lect 8 including lunch. What to do next, minimum training requirements, quality control, equipment , evaluation and online evaluation, certification at the annual meeting. What is the advanced US course, and good-bye
16:00 - 16:15	Hands-on sessions II: Infraligamentary vein bypass (1), Claudicant with central stenosis (2), PAD patient with SFA lesions (2), US-guided puncture phantom (1).	
16:15 - 16:30		
16:30 - 16:45		
16:45 - 17:00		
17:00 - 17:15		
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17:30 - 17:45		
17:45 - 18:00		
18:00 - 18:15	Networking Dinner	