

Medtronic



Venous University Class of 23/24

# Imaging concepts for venous disease with a focus on ultrasound training

**Module 1: Agenda**

# Session objectives:

- To enhance the knowledge and skills of venous duplex for the interrogation of both superficial and deep venous disease
- To understand the role of cross-sectional imaging and IVUS users in venous scanning, focusing on best practice care for optimal patient outcomes

Day 1	19:00-21:00	<b>Introduction</b> <ul style="list-style-type: none"><li>• Welcome and housekeeping</li><li>• Introduction to Venous University</li><li>• Reviewing the key principles of best-practice care for venous patients (guidance from ESVS)</li></ul>
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Day 2	8:30-09:00	<b>Arrival, coffee and registration</b>
	09:00-10:00	<b>Lecture 1 – Duplex for superficial venous disease</b> <ul style="list-style-type: none"><li>• How to perform a superficial venous duplex scan – primary varicose veins</li><li>• What are the common pitfalls with duplex scanning for superficial venous disease?</li><li>• What else should you look for when scanning primary varicose veins?</li><li>• Best-in-class departmental scans</li></ul>
	10:00-11:00	<b>Practical session 1 – Back to basics – Understanding ultrasound systems</b> <p>Delegates to rotate around the different US systems to learn from each Faculty member</p> <ul style="list-style-type: none"><li>• What settings are needed for the ultrasound machine – double station</li><li>• Knobology</li><li>• Setting up for success, ergonomics</li><li>• Limitations of US</li></ul>
	11:00-11:15	<b>Coffee</b>
	11:15-12:30	<b>Practical session 2 – Duplex scanning of superficial varicose veins</b> <ul style="list-style-type: none"><li>• 45 mins – Pulsewave and Doppler how-to – practise on arms</li><li>• 30 mins – Decision-making and treatment selection group discussion</li><li>• 15 mins – Scanning recurrent veins group discussion</li></ul>
	12:30-13:30	<b>Lunch</b>
	13:30-14:15	<b>Lecture 2 – Imaging of deep venous disease</b> <ul style="list-style-type: none"><li>• 15 mins – How I scan for deep venous disease and surveillance following deep venous intervention</li><li>• 15 mins – Challenges/tips and tricks to optimise the scan</li><li>• 30 mins each – Cases presented for discussion</li></ul>
	14:15-15:00	<b>Practical session 3 – Deep venous scanning</b> <ul style="list-style-type: none"><li>• Differences in acute vs chronic deep disease</li><li>• Does contrast-enhanced US play a role in investigating venous disease?</li><li>• Cross-sectional imaging for deep venous disease</li><li>• What does IVUS tell us?</li><li>• Best-practice care for optimal outcomes</li><li>• Case presentation to discuss</li></ul>
	15:00-15:15	<b>Coffee</b>
	15:15-16:15	<b>Practical session 4 – Using ultrasound for cannulation for venous intervention</b> <p>Delegates to rotate around 4 stations, 15 mins on each</p> <ul style="list-style-type: none"><li>• Where to cannulate and why, setting up for success discussion</li><li>• Practical skills utilising phantom limbs</li><li>• Train the trainer – how to teach US cannulation</li></ul>
16:15-16:45	<b>Wash-up session</b> <ul style="list-style-type: none"><li>• Delegate feedback including review of the course objectives</li><li>• Next steps: What will you do differently from today? What support do you need?</li><li>• Brief introduction to the objectives of the next Venous University session</li></ul>	
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<b>Course ends</b>		

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