

# Advanced Vascular Ultrasound Course

## 15 September – 17 September 2022

Rigshospitalet, University of Copenhagen, Denmark

### Course convenor and faculty

Kim Kargaard Bredahl, MD, PhD, Dept. of Vascular Surgery, Cph, Denmark (Convenor)  
Qasam Ghulam, MD, PhD, Dept. of Vascular Surgery, Cph, Denmark  
Jonas Eiberg, MD, PhD, Professor, Dept. of Vascular Surgery, Cph, Denmark  
Brian L. Pedersen, MD, PhD, Dept. of Vascular Surgery, Cph, Denmark  
Lærke Urbak, MD, MD, PhD, Dept. of Vascular Surgery, Cph, Denmark

### Venue

Auditorium and directions how to get there will be announced in a welcome letter.  
Copenhagen Academy for Medical Education and Simulation (CAMES).  
Department of Vascular Surgery, Rigshospitalet,  
Blegdamsvej 9, 2100 Copenhagen, Denmark.

### Dates

Thursday 15 September (12:00) to 17 Saturday, September (14:00), 2022

### Objective

The objective of this course is to teach the science behind, technical and practical aspects of more advanced *vascular ultrasound* examinations, i.e. arteries of the lower limb below the knee, carotid and vertebral arteries, arteries of the upper limb, haemodialysis vascular access, EVAR surveillance, mesenteric and celiac trunk, and 3D and contrast-enhanced ultrasound.

Participants will have an opportunity to practice their skills under supervision during the course as > 50% of the course will be hands-on sessions on patients with relevant vascular pathology.

### Participants' qualifications

The course is designed for vascular surgeons, angiologists, vascular surgeons in training, vascular nurses, sonographers and technologists. Practical experience with vascular ultrasound is required as well as theoretical knowledge corresponding to the ESVS course in basic vascular ultrasound.

### Sponsorship

The course is not financially supported by any company.

### Registrations fee

€ 1050 for ESVS members and € 1200 for non-members. The fee includes course material, and lunch. Transport, accommodation and additional meals are not included.

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### Registration

For registration and logistic info please contact the ESVS training office:  
info@esvs.org / Website: <http://www.esvs.org/education/>

### Questions

Questions regarding course content, qualifications, dietary needs etc. can be addressed to kim.kargaard.bredahl@regionh.dk

*Please note that the course is dependent on final registration numbers. The final decision of whether the course will be conducted is announced on the website no later than one month before the course starts. Travel and accommodation must therefore not be made until this message is given - ESVS is not financially responsible if the event is cancelled.*

### Suggested nearby accommodation (not included)

Walking distance 10 minutes:

#### **Hotel Rye**

Ryesgade 115, 2100 København Ø

Phone: +45 35265210

E-mail: rye@hotelrye.dk / www.hotelrye.dk

#### **Hotel Nora Copenhagen**

Nørrebrogade 18 B, DK-2200 København N

Phone (+45) 35 37 20 21

E-mail: nora@hotelnora.dk / www.hotelnora.dk

Walking distance 20 minutes:

#### **Hotel Kong Arthur**

Nørre Søgade 11, 1370 København K

Tlf. (+45) 33 11 12 12

E-mail: kongarthur@arthurhotels.dk / www.arthurhotels.dk

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### Programme

Hours	Thursday 15 Sept	Friday 16 Sept	Saturday 17 Sept
08:45 - 09:00		Coffee	Coffee
09:00 - 09:45		<b>Ultrasound physics</b> summary of the physical principles of vascular ultrasound. J Eiberg	<b>Carotid and upper limb</b> CEA without angiogram, degree of stenosis and 3D imaging, a. vertebralis and upper limb L Urbak
09:45 - 10:00		Coffee	
10:00 - 10:45		<b>Vascular access</b> pre-scan, volume measurement, ultrasound guided PTA B Pedersen	<b>Hands-on</b> carotid, upper limb
10:45 - 11:00		Coffee	Coffee
11:00 - 11:45		<b>Mesenteric artery</b> SMA and coeliac trunk stenosis Q Ghulam	<b>Hands-on</b> carotid, upper limb
11:45 - 12:00		11:30 - 12:00: Lunch	
12:00 - 12:45	<b>Registation:</b> Sandwich, coffe. Introduction with cases showing the benefit advanced ultrasound skills J Eiberg / K Bredahl	<b>EVAR-surveillance</b> endoleak detection, 3D and contrast enhanced ultrasound K Bredahl	<b>Hands-on</b> carotid, upper limb
12:45 - 13:00			
13:00 - 13:45	<b>Lower limb</b> Bypass without angiogram - calf scan, including demo session. J Eiberg	<b>Hands-on</b> Vascular Access, EVAR/CEUS, mesenteric artery	<b>Miscellaneous</b> education and certification, evaluation, sandwich, coffeé and goodbye :). Finish before 14:00
13:45 - 14:00			
14:00 - 14:45	<b>Hands-on</b> Lower limb (10 min per participant)	<b>Hands-on</b> Vascular Access, EVAR/CEUS, mesenteric artery	
14:45 - 15:00		Coffee	
15:00 - 15:50	<b>Hands-on</b> Lower limb	<b>Hands-on</b> Vascular Access, EVAR/CEUS, mesenteric artery	
	Coffee	Coffee	

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16:00 - 16:45	<b>Hands-on</b> Lower limb	<b>Hands-on</b> Vascular Access, EVAR/CEUS, mesenteric artery
17:00 - 17:45	<b>Hands-on</b> Lower limb	
19:00	Networking Dinner	