



PHILIPS

Clinical Education

Extracranial Vascular Duplex Imaging

Fundamentals of the complete Carotid Duplex Exam

In today's competitive and dynamic healthcare climate, it is critical to use your medical imaging systems to their fullest potential. Our goal at Philips Healthcare is to provide the clinical education you need to make the most of your equipment investment.

Philips Ultrasound University Vascular 205

This program is an ideal way for sonographers to learn how to image the carotid arteries. Lectures will provide essential background information and a supervised hands-on workshop will help each attendee master the fundamentals of performing a carotid duplex scan. Lecture topics covered include indications for the exam, carotid

artery anatomy, signs and symptoms of carotid disease, carotid disease management, instrumentation, B-mode imaging, as well as Color and Pulsed Wave Doppler exam of the carotids. The hands-on workshop will take a step-by-step approach to imaging by sonographers with many years of experience.

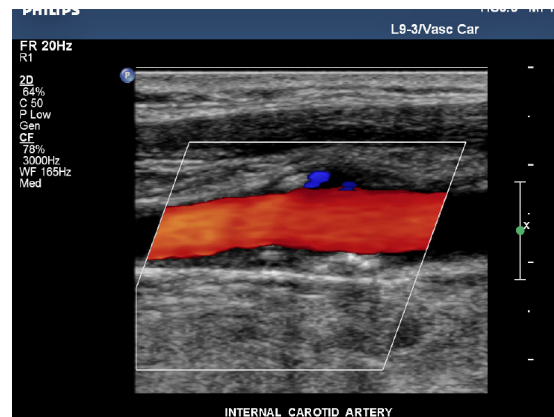
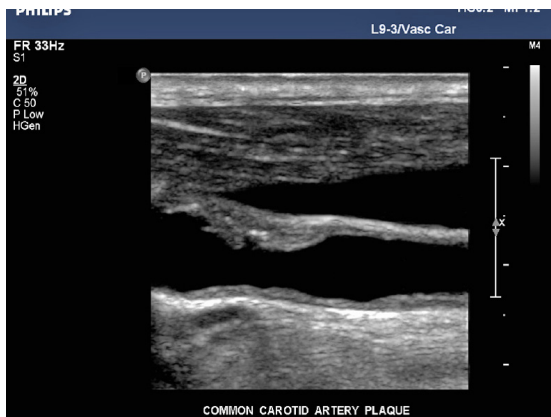
Prerequisite

Must be a practicing sonographer.

Faculty

Philips Clinical Education Specialists

Extracranial Vascular Duplex Imaging (VASC205)



Course Objectives

Upon completion of this course, the learner should be able to:

- Discuss the indications for exam, risk factors, as well as signs and symptoms
- Discuss intra and extracranial carotid, subclavian, aortic arch, and vertebral anatomy
- Discuss how carotid disease forms and how it is managed
- Discuss what Intimal Medial Thickening is and how it is measured
- Explain key clinical trials that have taken place
- Explain other examinations used to confirm carotid duplex results
- Explain the equipment needed to perform a quality carotid duplex scan
- Explain a basic carotid duplex scan protocol
- Explain how system controls are optimized for B-Mode, color, and pulsed wave Doppler
- Explain how views are documented
- Describe how carotid plaque appears on an ultrasound exam
- Describe how significant carotid disease alters color and pulsed wave Doppler results
- Describe according to published literature the range of velocities associated with varying degrees of carotid stenosis
- Discuss the factors that affect blood flow volume and velocity
- Discuss Doppler tools that improve sensitivity to visualizing flow
- Discuss research done on the range of velocities associated with ranges of stenosis
- Describe the abnormal carotid conditions that can be visualized other than stenosis

Locations

Course may be held in Philips central locations in Alpharetta, Georgia; Bothell, Washington; and Cleveland, Ohio. Other locations may be offered.

For more information

Contact Philips Ultrasound Clinical Education at **800.522.7022** and visit our education catalog at **www.learningconnection.philips.com/ultrasound**

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