2020 Vascular Ultrasound Training Course

Held in the MTMI Education Center in Milwaukee, WI
March 20-22, 2020
October 16-18, 2020

Instructors:
Matt Ryan, MSHA, RDMS, RVT, RT(R)
Jill Raiford Bearse, BS, RDMS, RVT

This 3-day Vascular Ultrasound course is designed for sonographers, echocardiographers, interventional technologists and physicians seeking intensive training on the essential aspects of vascular ultrasound. This course provides an opportunity to complement the professional’s existing skills with non-invasive vascular examination techniques. Specific applications are addressed beginning with a review of the relevant anatomy and physiology followed by in-depth presentations on examination techniques, protocols and diagnostic criteria. The didactic course work for each application will be complemented by supervised scanning sessions conducted in small groups using live models and experienced instructors on a variety of ultrasound systems. This course would also be appropriate for preparing for the registry in vascular ultrasound (RVT).

What attendees have said:
• I’ve learned so much in these few days.
• Enjoyed all the hands-on scanning and assistance from Jill & Matt during these sessions.
• The hands-on scanning is a great opportunity to take the lecture and see in real time.

This course is for:
• Sonographers
• Technologists
• Physicians
• Nurses
• Interventional Technologists
• Echocardiographers

Provides
Category A credit
Category 1 credit
CMEs
Nursing credit

for more information and to register go to:
www.mtmi.net
or call 800-765-6864
About this Course:
This 3-day Vascular Ultrasound course is designed for sonographers, echocardiographers, interventional technologists and physicians seeking intensive training on the essential aspects of vascular ultrasound. This course provides an opportunity to complement the professional’s existing skills with non-invasive vascular examination techniques. The course begins with a review of the basic ultrasound physics and instrumentation gray scale and Doppler principles, and fluid dynamics. Additional discussions include methods for optimizing the quality of diagnostic data obtained during an ultrasound examination. Specific applications are then addressed beginning with a review of the relevant anatomy and physiology followed by in-depth presentations on examination techniques, protocols and diagnostic criteria. The specific applications that will be addressed include: extra-cranial and intracranial cerebrovascular, abdominal and retroperitoneal (including large vessels as well as organs), and peripheral arterial and venous imaging and non-imaging assessments.

Day One - Friday ......................................................................................
7:30 am Registration and Coffee
8:00 am Overview of Ultrasound Physics and Instrumentation
  • Basic ultrasound physics
  • B-mode/gray-scale principles
  • Doppler principles • Fluid dynamics
  • Equipment instrumentation and optimization
  • Arterial and venous hemodynamics
10:10 am Informal Discussion and Break
10:20 am Extracranial Cerebrovascular
  • Anatomy and hemodynamics
  • Testing indications • Study protocols
  • Data interpretation & diagnostic criteria
  • Pathology/Case review
12:00 pm Lunch (provided)
12:45 pm Transcranial Doppler
  • Anatomy • Study protocols
2:00 pm Informal Discussion and Break
2:10 pm Peripheral Arterial - Duplex Imaging & Non-imaging
  • Anatomy & hemodynamics
  • Testing & indications
3:00 pm Hands-on Scanning (Instructor Led)
4:00 pm Adjourn for the Day

Day Two - Saturday ................................................................................
8:00 am Peripheral Arterial – Duplex Imaging/Non-imaging
  • Study protocols
  • Data interpretation and diagnostic criteria
  • Pathology/Case review
  • Treatment
10:10 am Informal Discussion and Break
10:20 am Peripheral Venous - UE/LE, Mapping, Hemodialysis
  • Anatomy and hemodynamics
  • Testing indications • Study protocols
  • Data interpretation & diagnostic criteria
12:00 pm Lunch (provided)
12:45 pm Case Studies and Pathology Review
1:45 pm Informal Discussion and Break
2:00 pm Hands-on Scanning (Instructor Led)
4:30 pm Adjourn for the Day

Day Three - Sunday ................................................................................
8:00 am Abdominal/Visceral Vascular –
  Aortoiliac, Renal, Mesenteric, Hepatopancreatic
  • Anatomy and hemodynamics
  • Testing indications • Study protocols
  • Data interpretation and diagnostic criteria
  • Pathology/Case review
10:45 am Informal Discussion and Break
12:00 pm Hands-on Scanning (Instructor Led)
12:30 pm Adjourn Course
~ Schedule subject to change ~

Course Credit:
This program provides 18.75 hours of Category A continuing education credit for radiologic technologists approved by ASRT and recognized by the ARRT and various licensure states. ARRT Category A credit is also recognized by the CCRN’s Continuing Education Credit Approval Program for CE credit in Canada. You must attend the entire program to receive your certificate of completion.

The Medical Technology Management Institute is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Medical Technology Management Institute designates this live activity for a maximum of 18.25 A.M.A. P.R.A. Category 1 Credits.” Physicians should only claim the credit commensurate with the extent of their participation in the activity.

Nursing CBRN
Provider approved by the California Board of Registered Nursing, Provider Number CEP# 16205 for 18 contact hours.

Educational Objectives
At the completion of this course, participants will:
• Describe how gray scale ultrasound, color flow imaging and spectral Doppler are used in the evaluation of the vascular system.
• Describe the essential components of a routine examination protocol of the cerebrovascular, peripheral arterial, peripheral venous, and abdominal vessels.
• Identify the normal and abnormal ultrasound characteristics of the peripheral vascular system.
• List the characteristics of normal and abnormal peripheral arterial and venous Doppler flow signals.
• Describe the ultrasound findings of basic pathologic conditions of the arterial and venous systems.