A CME Teaching Activity

2017 Noninvasive Vascular Imaging

Designated for SA-CME
This enduring material activity counts towards the SA-CME requirement for the ABR, similar to a SAM activity

IAC ACCREDITATION: All or a portion of this educational activity may meet the CME requirements for IAC Vascular Testing accreditation

Release Date: June 1, 2017

About This CME Teaching Activity
This CME activity offers a comprehensive review of recent developments and issues in noninvasive vascular imaging. Included is discussion on state-of-the-art ultrasound and Doppler techniques used to evaluate the cerebrovascular, abdominal and peripheral vascular systems. In addition, diagnostic pearls and pitfalls, credentialing requirements, venous testing and the clinical applications of transcranial Doppler are featured. Live scanning demonstrations enhance the didactic lectures. Faculty have been chosen for the expertise and outstanding teaching abilities.

Target Audience
This CME Teaching Activity is intended and designed to offer educational opportunities to radiologists, vascular surgeons, cardiologists, sonographers, and other clinicians interested in learning more about noninvasive vascular ultrasound.

Scientific Sponsor
Educational Symposia

Accreditation

Physicians: Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this enduring material for a maximum of 15.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SA-CME: Credits awarded for this enduring activity are designated “SA-CME” by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

All activity participants are required to pass a written or online test with a minimum score of 70% in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

AMA PRA Category 1 Credit(s)™ for this activity may be claimed until May 31, 2020.

Educational Objectives
At the completion of this CME teaching activity, you should be able to:

- Discuss the newest techniques in the noninvasive diagnosis of endovascular disease, including venous and carotid imaging.
- Assess new developments in vascular imaging.
- Discuss the utility of ultrasound and Doppler imaging when used to evaluate the aorta, carotid arteries, and peripheral vascular system.
- Utilize ultrasound to evaluate abdominal transplants, endostents and dialysis fistula.
- Utilize ultrasound to evaluate the venous system of the upper and lower extremities.
- Describe the appropriate role of ultrasound in the evaluation of the renal and hepatic arteries.

No special educational preparation is required for this CME activity.

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Faculty

Nirvikar (Nirvi) Dahiya, M.D.
Chair, Division of Ultrasound
Department of Radiology
Mayo Clinic, Arizona
Phoenix, AZ

Edward G. Grant, M.D., FACR
Professor and Chairman
Department of Radiology
Keck Hospital of USC
USC Norris Cancer Center
University of Southern California
Los Angeles, CA

Heather L. Gornik, M.D., RVT, RPVI
Medical Director, Non-Invasive Vascular Laboratory, Cleveland Clinic
Associate Professor of Medicine
Cleveland Clinic Lerner College of Medicine
Cleveland, OH

Esther S.H. Kim, M.D., MPH, RPVI
Associate Professor of Medicine
Division of Cardiovascular Medicine
Vanderbilt Heart and Vascular Institute
Nashville, TN

Ann Marie Kupinski, Ph.D., RVT
Associate Professor of Radiology
Albany Medical College
President, North Country Vascular Diagnostics
Albany, NY

Steven A. Leers, M.D., RVT, RPVI, FSVU
Associate Professor of Surgery
Medical Director, UPMC Vascular Laboratories
UPMC Division of Vascular Surgery
Pittsburgh, PA

Natalie Marks, M.D.
Attending Physician
Vascular Medicine
NYU Lutheran Medical Center
Brooklyn, NY

Laurence Needleman, M.D.
Associate Professor of Radiology
Thomas Jefferson University Hospital
Philadelphia, PA

Larry N. Raber, RDMS, RVT, RT (R)
Neurovascular Laboratory Manager/Imaging Institute
Cleveland Clinic
Cleveland, OH

Michelle L. Robbin, M.D., MS, FACR, FSRU, FAIUM
Professor of Radiology and Biomedical Engineering
Chief of Ultrasound
The University of Alabama School of Medicine

Leslie M. Scoutt, M.D.
Professor of Diagnostic Radiology and Vascular Surgery
Associate Program Director, Diagnostic Radiology
Chief, US Section
Medical Director, Non-Invasive Vascular Lab
Yale School of Medicine
Yale-New Haven Hospital
New Haven, CT

Sharlene A. Teefey, M.D.
Professor
Department of Radiology
Mallinckrodt Institute of Radiology
St. Louis, MO
Program

Session 1
Fundamentals of the Carotid Duplex Examination
Heather L. Gornik, M.D., RVT, RPVI

Carotid Artery Disease - Beyond Atherosclerotic Disease
Esther S. H. Kim, M.D., MPH, RPVI

The Fundamentals TCD - TCI
Larry N. Raber, RDMS, RVT, RT(R)

Carotid Duplex Following Endarterectomy and Stenting
Steven Leers, M.D., RVT, RPVI, FSVU

Assessment of Aortic Vessels and Vertebral Arteries in the Vascular Lab
Heather L. Gornik, M.D., RVT, RPVI

Session 2
Our Most Challenging Cases of the Past Few Years: Carotid Duplex Exams
Panelists:
Steven Leers, M.D., RVT, RPVI, FSVU,
Esther S. H. Kim, M.D., MPH, RPVI,
Larry N. Raber, RDMS, RVT, RT(R)

Extracranial Carotid Live Scanning
Larry N. Raber, RDMS, RVT, RT(R)
Heather L. Gornik, M.D., RVT, RPVI
Esther S. H. Kim, M.D., MPH, RPVI

Physiological Testing for Claudication and Lower Extremity Peripheral Artery Disease
Steven Leers, M.D., RVT, RPVI, FSVU

Lower Extremity Arterial Duplex for Assessment of Native Arteries, Bypass Grafts, and Stents
Ann Marie Kupinski, Ph.D., RVT

Recap of the Updated ACC/AHA Guidelines on Peripheral Artery Disease – What the Vascular Clinician Should Know
Heather L. Gornik, M.D., RVT, RPVI

Session 3
Ultrasound Imaging of Arterial Access Complications – Pseudoaneurysms, AVF and Others
Esther S. H. Kim, M.D., MPH, RPVI

Vascular Lab Assessment of Upper Extremity Arterial Disorders and Zebra Lower Extremity Arterial Disorders
Esther S. H. Kim, M.D., MPH, RPVI

Our Most Challenging Cases of the Past Few Years: Arterial Examinations
Panelists:
Esther S. H. Kim, M.D., MPH, RPVI,
Steven Leers, M.D., RVT, RPVI, FSVU,
Natalie Marks, M.D.

Arterial Duplex Live Scanning
Ann Marie Kupinski, Ph.D., RVT
Steven Leers, M.D., RVT, RPVI, FSVU
Natalie Marks, M.D.

Spotlight on Vascular Lab Quality: What the Vascular Lab Professional Should Know About Accreditation and Certification
Steven Leers, M.D., RVT, RPVI, FSVU

Session 4
Recognizing Common Artifacts and Interpretive Pitfalls in Carotid and Arterial Testing
Ann Marie Kupinski, Ph.D., RVT

Venous Duplex for Assessment of Lower Extremity DVT and Suspected PE Guidelines, Algorithms, and Nuts and Bolts of the Exam
Nirvikar (Nirvi) Dahiya, M.D.

Acute Versus Chronic DVT – How Do You Tell?
Heather L. Gornik, M.D., RVT, RPVI

Upper Extremity Venous Evaluation
Ann Marie Kupinski, Ph.D., RVT

Venous Duplex Assessment for Reflux and Role in Planning Venous Ablation Procedures
Steven Leers, M.D., RVT, RPVI, FSVU

Duplex Guidance for Foam Sclerotherapy Helps Provide Best Clinical and Aesthetic Results
Natalie Marks, M.D.
2017 Noninvasive Vascular Imaging

Program

Session 5

Our Most Challenging Cases of the Past Few Years: Venous Duplex Exams

Panelists:
Nirvikar (Nirvi) Dahiya, M.D.
Heather L. Gornik, M.D., RVT, RPVI
Esther S. H. Kim, M.D., MPH, RPVI

Advanced TCD Applications and Cases – Embolic Monitoring, TCD Bubble Studies, and Assessment of Cerebrovascular Reserve
Larry N. Raber, RDMS, RVT, RT(R)

Hemodialysis Access Evaluation – Pre and Post
Ann Marie Kupinski, Ph.D., RVT

Making the Case for Duplex Guided Arterial Procedures – BAM, Lower Extremity Angioplasty, and other
Natalie Marks, M.D.

Non-Vascular Entities the Vascular Reader Must Know (Incidentals, Mimics)
Nirvikar (Nirvi) Dahiya, M.D.

Live Abdominal Duplex Exam and Anatomy Review
Ann Marie Kupinski, Ph.D., RVT
Nirvikar (Nirvi) Dahiya, M.D.
Heather L. Gornik, M.D., RVT, RPVI

Session 6

Assessment for Renal and Mesenteric Artery Stenosis and Renal Transplants
Heather L. Gornik, M.D., RVT, RPVI

Assessment of Abdominal Aortic Aneurysm and Duplex Following AAA Repair
Esther S. H. Kim, M.D., MPH, RPVI

Hepatoportal Examination and Evaluation of Hepatic Transplants
Nirvikar (Nirvi) Dahiya, M.D.

Live TCD Scan
Larry N. Raber, RDMS, RVT, RT(R)
Heather L. Gornik, M.D., RVT, RPVI
Ann Marie Kupinski, Ph.D., RVT
Esther S. H. Kim, M.D., MPH, RPVI

Session 7

Ultrasound Evaluation of the Aorta
Leslie M. Scoutt, M.D.

Pearls and Pitfalls in Vascular Imaging
Michelle L. Robbin, M.D., MS, FACR, FSRU, FAIUM

Renal Doppler
Shariene A Tesfay, M.D.

Session 8

Carotid Ultrasound
Edward G. Grant, M.D., FACS

Contrast Enhanced Ultrasound: A Problem Solver
Michelle L. Robbin, M.D., MS, FACR, FSRU, FAIUM

Peripheral Vascular Disease
Laurence Needleman, M.D.
# CME Teaching Activity

## 2017 Noninvasive Vascular Imaging

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