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)TM. 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.

This CME activity was planned and produced by Educational Symposia, a leader in continuing medical education since 1975.

This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

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

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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 - TCl 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.

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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 Ester 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 Sharlene A Teefey, M.D.

Session 8

Carotid Ultrasound *Edward G. Grant, M.D., FACR*

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

Peripheral Vascular Disease *Laurence Needleman*, *M.D.*

2017 Noninvasive Vascular Imaging

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