WHO SHOULD ATTEND?

This course is designed for anesthesiologists interested in learning about perioperative transesophageal echocardiography (TEE) with the intent of gaining sufficient knowledge and experience to integrate this modality into their clinical practice outside of the cardiac surgical environment. The scope and pace of this course is specifically designed for those with little or no prior TEE or echocardiography experience.

OVERVIEW

The curriculum of this introductory TEE course is constructed to start with the most basic concepts of ultrasound imaging, fundamental physics, “knobology,” scan plane TEE probe manipulation and progress to basic hemodynamic analysis. Integrated throughout the program are case examples and discussions relevant to the application of TEE principles to noncardiac surgical case management. Incorporation of hemodynamic data from traditional sources such as a pulmonary artery catheter, cardiac catheterization with TEE images will illustrate the utility of TEE in a variety of settings.

The course is meant to be a first step, an introduction and a cornerstone upon which a novice can progress towards a complete understanding, enabling a participant to feel comfortable and confident about integrating TEE into the anesthetic management of his or her patients.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

- Describe the basic physics of ultrasound imaging
- Review the operation and optimization of TEE ultrasound machines
- Possess an increased comprehension of cardiac anatomy and blood flow
- Recognize and properly interpret 2-D TEE images of the normal heart
- Detect global and major regional left ventricular dysfunction
- Identify significant aortic, mitral and tricuspid valve pathology
- Assess left and right ventricular filling
- Detect pleural effusions, pericardial effusions and tamponade
- Recognize indications for rescue TEE and how to perform an emergent TEE exam
- Summarize and report TEE findings of a Basic TEE for Noncardiac Surgery

ACCREDITATION/DESIGNATION

The American Society of Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American Society of Anesthesiologists designates this live activity for a maximum of 15.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
DISCLOSURE AND RESOLUTION OF CONFLICTS OF INTEREST

The American Society of Anesthesiologists adheres to ACCME Essential Areas, Standards, and Policies regarding industry support of continuing medical education. Disclosure of the planning committee and faculty’s commercial relationships will be made known at the activity. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations.

In accordance with the ACCME Standards for Commercial Support of CME, the American Society of Anesthesiologists will implement mechanisms, prior to the planning and implementation of this CME activity, to identify and resolve conflicts of interest for all individuals in a position to control content of this CME activity.

SPECIAL NEEDS STATEMENT

The American Society of Anesthesiologists is committed to making its activities accessible to all individuals. If you are in need of an accommodation, please do not hesitate to call and/or submit a description of your needs in writing in order to receive service.

SPECIAL THANKS

The American Society of Anesthesiologists gratefully acknowledges CAE Healthcare USA, Inventive Medical Ltd, and SonoSite, Inc., for providing in-kind commercial support for this program. A listing of commercial supporters will be published in the meeting syllabus.

CERTIFICATION IN BASIC PERIOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY

The information below describes how the new certification relates to practicing anesthesiologists and can be found along with more details at: www.echoboards.org.

In cooperation with the American Society of Anesthesiologists, the National Board of Echocardiography (NBE) offers certification in basic perioperative transesophageal echocardiography. The primary purpose of this certification is to provide anesthesiologists who use TEE as a monitor during general anesthesia an opportunity to demonstrate their competence with this technique. Certification in basic perioperative TEE is NOT intended to qualify an individual to use TEE as a diagnostic tool to direct or assess cardiac surgical interventions; the board certification in perioperative transesophageal echocardiography offered by the NBE since 2003 remains unchanged and still serves this purpose and from this point on will be referred to as Advanced PTE Certification.

The requirements for certification in basic perioperative transesophageal echocardiography are based on the Guidelines for Training in Perioperative Echocardiography adopted by the Society of Cardiovascular Anesthesiologists and the American Society of Echocardiography in 2002. In the Fall of 2011, the NBE will offer a Basic PTEeXAM that is specifically intended to assess the cognitive component of competence in basic perioperative transesophageal echocardiography. Until such an examination is available, applicants may fulfill this requirement by passing the Advanced PTEeXAM.

For the experienced physician, certification requires completion of a training course, such as the iTEE workshops.
ASA PROGRAM DIRECTORS

Madhav Swaminathan, M.D., FASE, FAHA
Associate Professor
Director, Perioperative Echocardiography
Division of Cardiothoracic Anesthesiology and Critical Care Medicine
Department of Anesthesiology
Duke University
Durham, North Carolina

SCA PROGRAM DIRECTORS

Gregg S. Hartman, M.D.
Vice Chair, Department of Anesthesiology
Professor of Anesthesiology
Dartmouth-Hitchcock Medical Center
Lebanon, New Hampshire

Stanton K. Shernan, M.D., FASE
Associate Professor of Anesthesiology
Director of Cardiac Anesthesia
Brigham & Women's Hospital
Harvard Medical School
Boston, Massachusetts

FACULTY

Roman M. Sniecinski, M.D.
Director, Cardiothoracic/Cardiovascular Anesthesia Fellowship
Emory University School of Medicine
Assistant Professor of Anesthesiology
The Emory Clinic
Atlanta, Georgia

Jack S. Shanewise, M.D.
Director, Division of Cardiothoracic Anesthesiology
Columbia University College of Physicians & Surgeons
New York, New York

Douglas C. Shook, M.D.
Program Director
Cardiothoracic Anesthesia Fellowship
Department of Anesthesia, Perioperative and Pain Medicine
Brigham & Women's Hospital
Harvard Medical School
Boston, Massachusetts
Overview and Introduction to Basic TEE
6:30 – 7:15 a.m. Continental Breakfast
7:15 – 7:30 a.m. Welcome and Introduction: Why You Are Here
   Madhav Swaminathan, M.D.
7:30 – 7:45 a.m. What You Know Now: Pre-Test
   Gregg S. Hartman, M.D.

Basics of Ultrasound Imaging of the Heart
7:45 – 8:15 a.m. How Are TEE Images Created? 2-D Image Generation; Doppler Imaging Modalities
   Madhav Swaminathan, M.D.
8:15 – 9:15 a.m. TEE Probe Manipulation and Scan Planes: TEE Simulation Followed by Audience Q&A Session
   Gregg S. Hartman, M.D.
9:15 – 9:45 a.m. Coffee Break
9:45 – 10:30 a.m. You’re in the Driver’s Seat: Knobology and Image Optimization
   Madhav Swaminathan, M.D.; Stanton K. Shernan, M.D.; Gregg S. Hartman, M.D.; Roman M. Sniecinski, M.D.
10:30 – 11:00 a.m. Images That Aren’t Real: Artifacts
   Stanton K. Shernan, M.D.

Fundamentals of a TEE Examination
11:00 – 11:30 a.m. Moderator: Douglas C. Shook, M.D.
   Let’s Have a Look at Your Heart: Cardiac Anatomy: Surface and Internal Anatomy Lecture Displays
   - Surface Anatomy and TEE Views: Douglas C. Shook, M.D.
   - LV and RV, Aortic Valve and Ascending Aorta: Douglas C. Shook, M.D.
   - Anatomic Prosections Correlation With Imaging Planes: Roman M. Sniecinski, M.D.
11:30 – Noon What You Should Examine: Basic Examination and Standard Views
   Jack S. Shanewise, M.D.
Noon – 1:00 p.m. Buffet Lunch
1:00 – 3:00 p.m. Moderator: Douglas Shook, M.D.
   “The Roster” Identification of Cardiac Structures
   - Left Ventricle: Jack S. Shanewise, M.D.
   - Mitral Valve: Stanton K. Shernan, M.D.
   - Aortic Valve: Roman M. Sniecinski, M.D.
   - RV/TV/PV: Douglas C. Shook, M.D.
   - Structures on the Simulator: Madhav Swaminathan, M.D.
3:00 – 3:30 p.m. Coffee Break
3:30 – 4:00 p.m. Moderator: Madhav Swaminathan, M.D.
   What in the World Are These?: Anatomic Variants
   Stanton K. Shernan, M.D.
4:00 – 4:30 p.m. Going With the Flow: Color Flow Doppler Assessment of AV and MV
   Douglas C. Shook, M.D.
4:30 – 5:30 p.m. Hands-on Small Group Session. Handheld Chest Wall Echocardiography:
   You Are the Echocardiographer
   All Faculty
5:45 – 6:30 p.m. Basic and Advanced TEE: Certification and Training
   Jack S. Shanewise, M.D.
6:30 – 7:30 p.m. Light Reception
Overview and Introduction to Day 2
7:00 – 7:45 a.m. Continental Breakfast
7:45 - 8:00 a.m. Welcome and Announcements
     Madhav Swaminathan, M.D.
8:00 – 8:30 a.m. Moderator: Madhav Swaminathan, M.D.
     Let’s Have a Look at Your Heart:
     Internal Cardiac Anatomy and Anatomical Static Displays
        ▪ Mitral Valve, Tricuspid and Pulmonic Valves: Douglas C. Shook, M.D.
        ▪ Right and Left Atrial Structures: Douglas C. Shook, M.D.

Hemodynamics
8:30 – 9:00 a.m. “The Pressure Is On”: Quantitative Echo I Principles
     Pressure Gradients and Non-Invasive Catheterization by Echo
     Gregg S. Hartman, M.D.
9:00 – 9:30 a.m. Basic Hemodynamics: Quantitative Echo II Principles VTI and Flow Calculations
     Douglas C. Shook, M.D.
9:30 – 10:00 a.m. Coffee Break

Cardiac Pathology
10:00 – Noon “The Broken Heart”: Cardiac Pathology Workshop
     ▪ LV + RV Global Function: Jack S. Shanewise, M.D.
     ▪ Aortic Stenosis: Gregg S. Hartman, M.D.
     ▪ Aortic Insufficiency: Madhav Swaminathan, M.D.
     ▪ Mitral Stenosis: Douglas C. Shook, M.D.
     ▪ Mitral Regurgitation: Stanton K. Sherman, M.D.
     ▪ Pericardial + Pleural Effusions: Roman M. Sniecinski, M.D.

Noon – 1:00 p.m. Show Me the Money: A Basic Noncardiac TEE Service
     Madhav Swaminathan, M.D.
     (Box Lunches)
1:00 – 1:30 p.m. Moderator: Douglas C. Shook, M.D.
     Rescue TEE: Post Cardiopulmonary Arrest: PA and TEE
     Roman M. Sniecinski, M.D.
1:30 – 2:00 p.m. It’s All in the Motion: LV and RV RWMA
     Madhav Swaminathan, M.D.
2:00 – 2:30 p.m. Ultrasound for Vascular Access
     Gregg S. Hartman, M.D.
2:30 – 3:30 p.m. Post-Test, Review and Questions
     Gregg S. Hartman, M.D.
REGISTER EARLY AND SAVE MONEY!

Take advantage of the early-bird discount by registering before July 25, 2011, and save money on your registration for the Introduction to Transesophageal Echocardiography for Noncardiac Surgery Workshop. In addition, make your hotel reservation for the workshop before August 10, 2011, to take advantage of the special ASA rate.

HOTEL ROOMS

A block of rooms has been reserved at the InterContinental Buckhead Hotel at 3315 Peachtree Road, N.E., Atlanta, Georgia. Room reservations may be made directly with the hotel by calling the Reservations Department at 404-946-9191. To receive the ASA group rate of $159 Single/Double (plus taxes), please mention you are attending the ASA meeting. Reservations will be accepted until August 10, 2011 or until the room block is full, whichever occurs first. The hotel is located approximately 17 miles from the Hartsfield-Jackson International Airport.

ATLANTA

Atlanta offers something for everyone. Enjoy the many fine restaurants, attractions, shopping experiences, museums that Atlanta has to offer. For more information visit the Atlanta Convention and Visitors Bureau website at www.atlanta.net.

ASA MEMBERSHIP

Join ASA today and be a part of an organization that advocates for professional principles, patient safety, and the highest ethical conduct. The Society is only as strong as the members who comprise it. Join ASA today by applying online at www.asahq.org or by contacting ASA’s member services department at 847-825-5586 or via e-mail at members_assist@asahq.org.
SAVE THE DATES!

ANESTHESIOLOGY 2011
TRANSFORMING PATIENT SAFETY THROUGH SCIENCE AND INNOVATION

October 15-19, 2011  •  McCormick Place  •  Chicago, IL

Webinars

Coding for Cardiac Anesthesia
September 14, 2011  •  2–3:30 p.m. (EST)

PRACTICE MANAGEMENT 2012

January 27-29, 2012  •  Buena Vista Palace  •  Orlando, FL

Visit www.asahq.org for more information and to register for these events.
Register early and save money! The Early Bird Discount is available to all individuals who submit this registration form with registration fee included by July 25, 2011. Registration forms submitted or postmarked after July 25th will not be eligible.

**PERSONAL INFORMATION** *(Please print or type)*

First Name: _______________________________  Middle Initial: ______  Last Name: __________________________________________________

Title: _____________________________________  Professional Designation: _____________________  Affiliation: _________________________

Work Address: _________________________________________________________________________________  Suite/Apt#: _________________

City: ______________________________________  State: ____________  ZIP: ____________________  Country: __________________________

Work E-mail: ___________________________________________________  Work Tel: ______________________  Fax: ________________________

☐ Opt in to CME mailing list

ASA Member No.: _____________________________________________  SCA Member No.: ____________________________________________

ABA Member No.: ______________________________________________

Emergency Contact Name: ______________________________________  ☐ Attached is a description of my accessibility needs.

Daytime Tel: ___________________________________________________  Evening Tel: __________________________________________________

**REGISTRATION FEES** *(Please check one)* *Registration fee includes continental breakfasts, Saturday reception, and Saturday and Sunday lunches.*

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**CANCELLATION POLICY**

A full refund will be issued for written cancellations received at least five days prior to the start of the meeting. No refunds or credits after that date.

**PAYMENT METHOD** *(Payment must accompany form to be processed)*

☐ American Express  ☐ MasterCard  ☐ VISA  ☐ Check *(Payable to American Society of Anesthesiologists)*

Mail payment and completed form to:
American Society of Anesthesiologists
Attn: Meetings
520 N. Northwest Highway
Park Ridge, IL 60068-2573

Or fax to:
Attn: Meetings (847) 825-1692

For additional information, contact ASA Meeting Planner Kristy Floyd at k.floyd@asahq.org or (847) 825-5586.
REGISER FOR

Introduction to Transesophageal Echocardiography for Noncardiac Surgery Workshop

and receive the following benefits:

- Improve your cognitive skills in basic perioperative transesophageal echocardiography.
- Gain insight into how to run an echo service, including certification and credentialing issues.
- Learn skills to monitor, detect and treat common hemodynamic problems using TEE.
- Discover the latest techniques in TEE that you can use in your operating room.
- Explore ways in which TEE can improve the quality of perioperative care for your patients.
- Earn up to 15.75 AMA PRA Category 1 Credits™.

Register by July 25, 2011 to take advantage of early-bird pricing!

For more information and to register, visit www.asahq.org. Space is limited so register early!