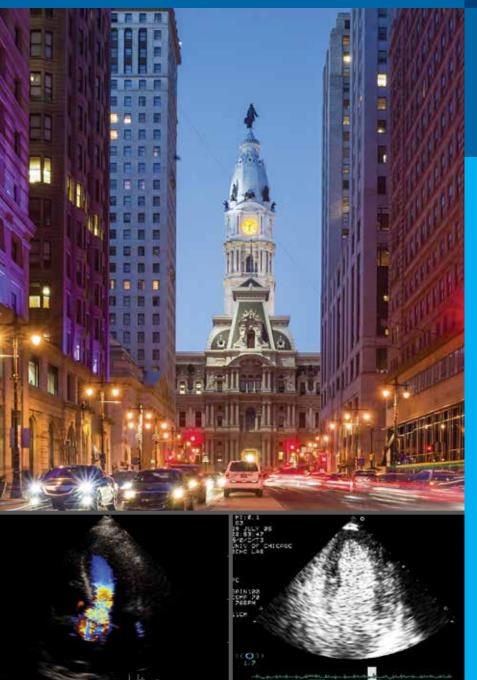
ASCeXAM/Reasce REVIEW COURSE

The most comprehensive review to help you prepare for the NBE certification examinations.





FINAL PROGRAM

April 16-19, 2016 Loews Philadelphia Hotel Philadelphia, PA

Course Director

Martin G. Keane, MD, FASE Lewis Katz School of Medicine at Temple University Philadelphia, PA

Course Co-Director

Gerard P. Aurigemma, MD, FASE University of Massachusetts Medical School Worcester, MA

Featuring:

- Review Lectures
- Illustrative Cases
- Expert Faculty Advice
- Audience Response System





Welcome Message

Faculty

Welcome to the 17th Annual ASCeXAM/ReASCE Review Course designed by the American Society of Echocardiography (ASE) as a preparatory course for the National Board of Echocardiography, $Inc.^{\text{TM}}$ (NBE) ASCeXAM® and ReASCE® examinations. This course will cover all aspects of cardiovascular ultrasound essential to these examinations, including physics, valvular heart disease, strain and 3D imaging, contrast echocardiography, ischemic heart disease, congenital heart disease, and more.

The expert faculty will emphasize illustrative cases and will use case studies, lectures, and interactive sessions to help prepare you for the ASCeXAM® or ReASCE® examinations. To enhance the learning experience, an audience response system and question and answer sessions will facilitate faculty interaction and self-guided learning. You will have a unique opportunity to interact with and ask questions of the expert faculty.

The printed syllabus that you received at registration includes lectures released by faculty. If you would like additional information for your studies, you have the option to purchase a copy of the recorded lectures at a discounted rate while attending the course.

I hope you will take advantage of this opportunity to ask questions of the faculty and network with the other attendees and exhibitors. Philadelphia is my home and the Loews Philadelphia Hotel is located in the heart of the city. It is within walking distance to some of my favorite attractions, including the Liberty Bell, Independence Hall, Love Park, and more. Please let me know if you need anything while you are here. I look forward to spending time with you in the coming days.



Martin G. Keane, MD, FASE Course Director Lewis Katz School of Medicine at Temple University Philadelphia, PA

Course Director

Martin G. Keane, MD, FASE

Lewis Katz School of Medicine at Temple University Philadelphia, PA

Course Co-Director

Gerard P. Aurigemma, MD, FASE

University of Massachusetts Medical School Worcester, MA

Faculty

Amr E. Abbas, MD, FASE

Beaumont Health System Berkley, MI

David B. Adams, RCS, RDCS,

Duke University Medical Center Durham, NC

Sidney K. Edelman, PhD

ESP Ultrasound The Woodlands, TX

Itzhak Kronzon, MD, FASE

Lenox Hill Hospital New York, NY

Steven J. Lester, MD, FASE

Mayo Clinic Scottsdale, AZ

Robert A. Levine, MD

Massachusetts General Hospital Boston, MA

Sunil Mankad, MD, FASE

Mayo Clinic Rochester, MN

Natesa G. Pandian, MD

Tufts University Medical Center Boston, MA

Pravin Patil, MD

Lewis Katz School of Medicine at Temple University Philadelphia, PA

Michael D. Pettersen, MD

Rocky Mountain Pediatric Cardiology Denver, CO

Sabrina D. Phillips, MD, FASE

Oklahoma Health Science Center Oklahoma City, OK

Miguel A. Quiñones, MD, FASE

Methodist DeBakey Heart & Vascular Center Houston, TX

Lawrence G. Rudski, MD, FASE

Jewish General Hospital Montreal, QC, Canada

Dennis A. Tighe, MD, FASE

University of Massachusetts Medical School Worcester, MA

Program Information

Overview of the ASCeXAM/ReASCE Review Course

The American Society of Echocardiography (ASE) has specifically designed the ASCeXAM/ReASCE Review Course as a preparatory course for the National Board of Echocardiography, Inc. (NBE) ASCeXAM® and ReASCE® examinations. Lectures given will emphasize illustrative cases and as such will not be "canned talks" from other cardiovascular ultrasound courses.

This Review Course will cover all aspects of cardiovascular ultrasound essential to these examinations, including physics, valvular heart disease, strain and 3D imaging, contrast echocardiography, ischemic heart disease, congenital heart disease, and more.

The expert faculty will use case studies, lectures, and interactive sessions to help prepare attendees for the ASCeXAM® or ReASCE® examinations. An audience response system and question and answer sessions will facilitate faculty interaction and self-guided learning.

The ASCeXAM/ReASCE Review Course gives attendees the unique opportunity to interact with and ask questions of the expert faculty. Attendees will be provided with a black & white printed syllabus that includes lectures released by faculty.

Target Audience

This course is designed for physicians interested in sitting for the ASCeXAM® (Examination of Special Competence in Adult Echocardiography) or the ReASCE® (Recertification Examination of Special Competence in Adult Echocardiography), as well as physicians and sonographers interested in a broad review of cardiovascular ultrasound.

Learning Objectives

Upon completion of this course, participants should be better able to:

- Explain the essential physical principles of cardiac ultrasound.
- Recognize common ultrasound artifacts and their genesis.
- Estimate systolic function using standard M-mode and 2D echocardiography, as well as newer modalities such as strain imaging and 3D echocardiography.
- Identify and quantitate valvular heart disease severity.
- Describe the application of Doppler in the assessment of hemodynamics and diastolic function.
- Perform clinically relevant calculations of valve areas and intracardiac pressures.
- Explain proven techniques for interpreting stress echocardiographic examinations.
- Differentiate features of cardiac tamponade, constrictive pericarditis, and restrictive cardiomyopathy.
- List appropriate applications of echocardiography.
- Recognize newer applications of echocardiography such as myocardial contrast.

Increased Learning Outcomes with Real Time Audience Response System

Throughout this course an audience response system called Conferences i/o will be implemented to increase your learning outcomes. You do not need to download a special app, all you need to do is go to ASEcho.cnf.io on any mobile device (smartphone, tablet, laptop) and you will be ready to interact. At the beginning and end of each lecture, the faculty will post broad review questions with a series of multiple choice answers. Only one answer is correct. You will have the opportunity to answer both times and see how you compare to others. This system will also allow the opportunity to ask questions of the faculty.



Disclaimer

The information provided during this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's condition.

Why take the ASCexAM® or ReASCE® Examinations?

NBE administers the ASCeXAM® and ReASCE® examinations to allow physicians to test and demonstrate their knowledge of echocardiography based on an objective standard. The ASCeXAM® is the Examination of Special Competence in Adult Echocardiography and is intended for those who wish to demonstrate special competence in all areas of echocardiography. The ReASCE® is the Recertification Examination of Special Competence in Adult Echocardiography designed specifically for those who have previously passed the ASCeXAM®. The purpose of ReASCE® is to promote continued excellence in all areas of echocardiography.

Passing these examinations is mandatory when applying for and maintaining NBE certification in any or all of the following areas: transthoracic echocardiography, transesophageal echocardiography, or stress echocardiography.

The examinations are given at testing centers throughout the United States. The test will consist of one case-oriented block and three multiple choice blocks covering the following content areas:

- physical principles of ultrasound
- · valvular heart disease
- ventricular size and function, coronary artery disease, cardiomyopathies
- congenital heart disease and fetal echocardiography
- cardiac masses, pericardial disease, myocardial contrast, and newer applications of echocardiography

Questions will test knowledge of M-mode, 2D and Doppler echocardiography, transesophageal, contrast, and stress echocardiography. The case-oriented block will last up to 1½ hours while the other three blocks will last up to 60 minutes per block.

More details concerning these examinations can be found on the NBE website at echoboards.org.

Accreditation & Designation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American Society of Echocardiography and the American Society of Echocardiography Education and Research Foundation. The American Society of Echocardiography is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Echocardiography designates this live activity for a maximum of **31** *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Daily breakdown of CME credits:

April 16. 2016 = 5.75

April 17, 2016 = 9.00

April 18, 2016 = 8.75

April 19, 2016 = 7.5

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn <u>up to</u> **31 MOC points** in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent

to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.





ARDMS, CCI, and Sonography Canada recognize ASE's certificates and have agreed to honor the credit hours toward their registry requirements for sonographers.

All or a portion of this educational activity may meet the CME requirement for IAC Echocardiography accreditation.

This activity is eligible for Section 1 credits in the Royal College of Physicians and Surgeons of Canada's Maintenance of Certification (MOC) Program. Participants must log into MAINPORT to claim this activity.

Disclosure

ASE is committed to ensuring that its educational mission and all sponsored educational programs are not influenced by the special interests of any corporation or individual, and its mandate is to retain only those speakers whose financial interests can be effectively resolved to maintain the goals and educational integrity of the program. While a monetary or professional affiliation with a corporation does not necessarily influence a speaker's presentation, the Essential Areas and Policies of the ACCME require that any relationship that could possibly conflict with the educational value of the program be resolved prior to the educational session and disclosed to the audience. In accordance with these policies, ASE implemented 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. Disclosure information is referenced and can be found beginning on page 11 of this program.



How to Obtain CME

To claim your CME for ASCeXAM/ReASCE Review Course, please follow the steps below using your Mozilla Firefox, Google Chrome or Safari browser. **Internet Explorer will not work**. The deadline to claim credit is **May 20, 2016**.

- 1. **ASE Members:** Go to ASEcho.org and log on to the Member Portal with your username (email) and password.
 - a. Click on **ASEUniversity and CME Credits** (This will take you directly to your ASEUniversity member profile).
- 2. **Nonmembers:** Go to ASEUniversity.org and create a new account or log into your existing account.
- 3. Once logged into ASEUniversity, the top of the page should say, "Hello,___." Click "**Your Account**."
- Under "Your Account" click on "Add Access Code" and enter the code "REVIEW2016."
- 5. Verify your registration information. Be sure to use the same information that you used to register for the event.
- Once verified, click "Take Evaluation" to claim your CME credit. CME credits are not earned until the entire evaluation has been completed.
 - a. Remember to enter your ABIM number and birthdate if you choose to have MOC points for this meeting submitted to ABIM. There is a space for this indicated on the first page of the evaluation.
- 7. Your certificate will be available for immediate download and can be found under "Your Account" in the "CE Transcript."

Attendee Information and Regulations

Registration Location and Hours

Attendee registration is located in the Regency Foyer, 2nd Floor Mezzanine.

Saturday, April 16, 2016	9:30 am - 6:30 pm
Sunday, April 17, 2016	6:30 am - 6:15 pm
Monday, April 18, 2016	6:30 am - 6:00 pm
Tuesday, April 19, 2016	6:30 am - 4:15 pm

Food Functions

On Saturday, April 16, there will be an afternoon refreshment break in the Regency Foyer, 2nd Floor Mezzanine (2M). ASE will provide breakfast and coffee breaks for registered attendees in the Regency Foyer, 2nd Floor Mezzanine (2M) from 6:30 am until the start of the session Sunday, Monday, and Tuesday mornings. Please refer to the program schedule for the times of the daily coffee breaks.

Lunch will be provided for attendees in the Millennium Hall, 2nd Floor, Sunday, April 17 through Tuesday, April 19. Lunch times vary, so please refer to the program schedule for times.

Loews Philadelphia Hotel Dining Options

Loews Philadelphia Hotel: The Loews Philadelphia Hotel is located in the heart of Center City Philadelphia and is within walking distance to all of the city's major attractions, including the Liberty Bell, Independence Hall, Love Park, and more.

Bank & Bourbon: Right inside the Loews Philadelphia Hotel you will find one of the finest restaurants in the entire city. Bank & Bourbon is where traditional American fare and techniques are re-imagined and made totally new with a modern twist. The chef serves up a fresh take on American classics using seasonal, top-quality ingredients all sourced from local purveyors and artisans. Meanwhile, the Bourbon Master directs a unique barrel-aging program for bourbon, whiskey, and rye spirits. Open 6:30 am - 10:00 pm.

The Lounge: The Lobby Lounge offers comfortable conversation areas with chic sofas and chairs. The ideal place to gather or to work, the Lobby Lounge has library tables equipped with outlets for your laptop or smartphone. It is also a great place to grab a drink or a small bite.

Internet Access

Attendees of the course receive complimentary internet in their guest rooms, the meeting room, and lobby at the Loews Philadelphia.

On-site FedEx

Located on the lobby floor, the center offers everything for your convention or business needs. Services include copying and digital printing, professional finishing, document creations, signs and graphics, faxing, computer and Internet access, pack-and-ship services as well as handling and managing all guest parcels shipped to the hotel.

Cell Phone Use

Cell phones should not be used in the educational sessions. For consideration of faculty and other attendees, please remember to turn your cell phones and other electronic devices off or set to vibrate mode.

Safety

Audience seating is on a first come, first served basis. According to fire code, a session must be closed if the room fills to capacity. Inappropriate behavior or undesirable conduct, including, but not limited to, verbal or physical abuse, whether threatened or performed, will not be permitted or tolerated. You must wear your name badge at all times when attending the session or events.

Photography/AV Policy

No person may record any portion of the 17th Annual ASCeXAM/ReASCE Review Course, either by video, still or digital photography, audio or any other recording or reproduction mechanism. This includes recording of presentations and supporting audio visual materials and of poster presentations and supporting poster materials.

Taking photos of, or recording the content of, presentation slides is also prohibited and is considered intellectual piracy. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their name badge and attendance privileges.

ASE reserves the rights to all recordings or reproductions at ASE meetings. Please be aware that during the 17th Annual ASCeXAM/ReASCE Review Course, attendees, vendors, guests and exhibitors may be photographed or videotaped by ASE staff capturing the event. Some of these photographs or videos may be displayed by ASE in future publication or other materials. By virtue of your attendance, you agree to allow ASE to use photographs of you in its promotional materials.

Children

ASE does not offer childcare services. Due to limited seating capacity and the highly technical nature of this program, children are not allowed to attend the educational session. For their safety, children must be accompanied by an adult at all times when attending the course events.

Schedule of Events

SATURDAY, APRIL 16, 2016			
9:30 am	REGISTRATION Regency Foyer, 2nd Floor Mezzanine (2M)		
M. Keane, presiding Regency Ballroom, 2nd Floor Mezzanine (2M)			
12:00 pm	Welcome M. Keane		
12:20 pm	Overview of ASCeXAM® D. Tighe		
1:00 pm	Normal Transthoracic/Transesophageal Examination P. Patil		
2:15 pm	Echocardiographic Evaluation of the Left Ventricle M. Keane		
3:15 pm	VISIT EXHIBITS & REFRESHMENT BREAK Regency Foyer, 2nd Floor Mezzanine (2M)		
G. Aurigemma, presiding			
2:15 nm			
3:45 pm	Endocarditis: The Role of Echocardiography P. Patil		
4:30 pm	Echocardiography		
·	Echocardiography P. Patil Right Heart Hemodynamics: Echocardiography - PA Catheter in a Box		
4:30 pm	Echocardiography P. Patil Right Heart Hemodynamics: Echocardiography - PA Catheter in a Box I. Kronzon Concepts of Imaging/Knobology/ Artifacts		



SUNDAY, APRIL 17, 2016				
6:30 am				
	VISIT EXHIBITS & BREAKFAST			
BR Wasses	Regency Foyer, 2nd Floor Mezzanine (2M)			
M. Keane, p Regency Ballroo	residing m, 2nd Floor Mezzanine (2M)			
7:20 am	Overview M. Keane			
7:30 am	Spectral Doppler Cases G. Aurigemma, I. Kronzon			
8:15 am	Classic M-Mode Echocardiography I. Kronzon, G. Aurigemma			
9:00 am	Myocardial Imaging: Tissue Doppler and Strain Imaging S. Lester			
9:45 am	VISIT EXHIBITS & REFRESHMENT BREAK Regency Foyer, 2nd Floor Mezzanine (2M)			
10:15 am	Cardiac Masses D. Tighe			
10:45 am	Anatomy of the Mitral Valve and Quantification of Mitral Regurgitation S. Mankad			
11:30 am	Mitral Valve Stenosis R. Levine			
12:15 pm	VISIT EXHIBITS & LUNCH Lunch is served in the Millennium Hall, 2nd Floor			
G. Aurigemma, presiding				
1:15 pm	Echocardiographic Evaluation of Mitral Valve Prostheses <i>D. Tighe</i>			
2:00 pm	Anatomy of the Aortic Valve and Spectrum of Aortic Stenosis M. Keane			
2:45 pm	Aortic Stenosis: Severe by Gradient but not Valve Area A. Abbas			
3:30 pm	VISIT EXHIBITS & REFRESHMENT BREAK Regency Foyer, Second Floor Mezzanine (2M)			
4:00 pm	Etiology and Quantification of Aortic Regurgitation M. Keane			
4:45 pm	Echocardiographic Evaluation of Aortic Valve Prostheses A. Abbas			
5:30 pm	Valve Disease: Board Review Questions A. Abbas, M. Keane, D. Tighe			
6:15 pm	ADJOURN			

Schedule of Events

	Y, APRIL 18, 2016			
6:30 am	REGISTRATION, VISIT EXHIBITS & BREAKFAST Regency Foyer, 2nd Floor Mezzanine (2M)			
M. Keane, presiding Regency Ballroom, 2nd Floor Mezzanine (2M)				
7:20 am	Overview M. Keane			
7:30 am	Echocardiographic Evaluation of the Right Ventricle L. Rudski			
8:15 am	Tricuspid and Pulmonary Valve Disease L. Rudski			
9:00 am	Basic Ultrasound Physics S. Edelman			
9:45 am	VISIT EXHIBITS & REFRESHMENT BREAK Regency Foyer, 2nd Floor Mezzanine (2M)			
10:15 am	Typical Board Questions in Physics S. Edelman			
11:00 am	Artifacts: Theory and Illustrative Examples R. Levine			
11:45 am	Read With the Experts: Cases and Audience Response Questions M. Keane, R. Levine, S. Mankad			
12:30 pm	VISIT EXHIBITS & LUNCH Lunch is served in the Millennium Hall, 2nd Floor			
G. Aurigemn	na, presiding			
1:30 pm	Hypertrophic Cardiomyopathy or Phenocopy? S. Lester			
2:15 pm	Echocardiography in Systemic Disease S. Mankad			
3:00 pm	Stress Echocardiography: Theoretical and Practical Considerations S. Lester			
3:45 pm	VISIT EXHIBITS & BREAK Regency Foyer, 2nd Floor Mezzanine (2M)			
4:15 pm	Echo in Ischemic Heart Disease and Myocardial Infarction <i>D. Tighe</i>			
5:00 pm	Stress Echocardiography: Illustrative Cases			
	G. Aurigemma, S. Lester, S. Mankad			

TUESDAY, APRIL 19, 2016				
6:30 am	REGISTRATION, VISIT EXHIBITS & BREAKFAST Regency Foyer, 2nd Floor Mezzanine (2M)			
G. Aurigemma, presiding Regency Ballroom, 2nd Floor Mezzanine (2M)				
7:20 am	Overview G. Aurigemma			
7:30 am	Commonly Encountered Congenital Heart Disease in Adults <i>S. Phillips</i>			
8:15 am	Congenital Heart Disease: An Approach for Simple and Complex Anomalies M. Pettersen			
9:00 am	Congenital Heart Disease Cases M. Pettersen, S. Phillips			
9:45 am	VISIT EXHIBITS & REFRESHMENT BREAK Regency Foyer, 2nd Floor Mezzanine (2M)			
10:15 am	Echocardiographic Evaluation of Diastolic Function M. Quiñones			
11:15 am	Echocardiographic Evaluation of Hemodynamics in Pericardial Disease <i>N. Pandian</i>			
12:00 pm	Case Studies in Diastolic Dysfunction and Pericardial Disease G. Aurigemma, N. Pandian, M. Quiñones			
1:00 pm	VISIT EXHIBITS & LUNCH Lunch is served in the Millennium Hall, 2nd Floor			
M. Keane, presiding				
2:00 pm	Contrast Echocardiography <i>S. Lester</i>			
2:45 pm	Applications of 3D Imaging: A Case-based Approach S. Mankad			
3:30 pm	Diseases of the Aorta <i>N. Pandian</i>			
4:15 pm	ADJOURN			

The new ASCeXAM/ReASCE Online PRACTICE EXAM SIMULATION



The ASCeXAM/ReASCE Online Practice Exam Simulation is designed to prepare physicians for the National Board of Echocardiography's ASCeXAM or ReASCE certification examinations. Developed by renowned experts in the field of echocardiography, the test bank consists of 300 multiple choice questions containing over 400 images and videos covering: the physical principles of cardiovascular ultrasound; valvular heart disease; ventricular size and function; coronary artery disease and cardiomyopathies; congenital heart disease and fetal echocardiography; as well as cardiac masses, pericardial disease, myocardial contrast, and the latest applications in echocardiography. M-mode, 2-Dimensional, and Doppler echocardiography are also covered.

In addition to objective-based questions, case studies are included to evaluate your knowledge of the field. After purchasing this exam simulation, you have access for 18 weeks and are given the opportunity to take two simulated exams consisting of 150 questions each, assessing your skills and knowledge in all areas. You may repeat these exams a total of six times. The grading and feedback for all six attempts will be saved. In addition to an overall grade, a percentage breakdown of your incorrect and correct answers over the five categories will be provided for each attempt, allowing you to focus your study accordingly. Feedback includes explanations of the correct and incorrect answers, offering valuable instruction.

The American Society of Echocardiography strives to be the premier source for ASCeXAM/ReASCE preparation.

Take advantage of this valuable preparation tool \$199 ASE Members \$250 Nonmembers



Visit ASEUniversity.org to purchase now!

Exhibit Information

Exhibit Location and Hours

Exhibits are located in the Regency Foyer, 2nd Floor Mezzanine (2M) during the dates and hours listed below.

Saturday, April 16, 2016	3:00 pm – 6:30 pm
Sunday, April 17, 2016	6:30 am - 6:15 pm
Monday, April 18, 2016	6:30 am - 6:00 pm
Tuesday, April 19, 2016	6:30 am - 2:00 pm



Digitell, Inc. 111 West 2nd St., 3rd Floor Jamestown, NY 14701 United States Phone: 800-679-3646

Fax: 716-664-2047 prolibraries.com/ase

Digitell offers simple, easy, low-cost solutions for live broadcasting, virtual meetings, Webinars, content capture and distribution. High quality streaming with chat, polling, Q&A, registration, e-commerce, CE/CME system and tech support provide you a complete, hands-free solution. Our staff and customer service is the best in the industry. Stop by the booth to learn more about purchasing an online version of the ASCeXAM/ReASCE Review Course accessible after the meeting is over.



Elsevier 1600 JFK Blvd., Ste. 1800 Philadelphia, PA 19103 United States

Phone: 215-239-3900 Fax: 215-239-3494 elsevier.com

Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, deliver better care, and sometimes make groundbreaking discoveries that advance the boundaries of knowledge and human progress. Elsevier provides web-based, digital solutions — among them ScienceDirect, Scopus, Elsevier Research Intelligence and ClinicalKey — and publishes over 2,500 journals, including The Lancet and Cell, and more than 33,000 book titles, including a number of iconic reference works. Elsevier is part of RELX Group plc, a world-leading provider of information solutions for professional customers across industries.





Hitachi Aloka Medical 10 Fairfield Blvd. Wallingford, CT 06492 United States

Phone: 203-269-5088 Fax: 203-269-6075 hitachi-aloka.com

We are proud of the reputation we have built as an industry leader in diagnostic ultrasound. Known for our unparalleled image quality, superior system reliability and intuitive use of cutting edge technology, we remain the ideal choice for exceptional diagnostic ultrasound imaging in the field of cardiovascular medicine.



Lantheus Medical Imaging, Inc. 331 Treble Cove Rd. North Billerica, MA 01862 United States

Phone: 800-362-2668

lantheus.com

Lantheus Medical Imaging, a global leader in developing, manufacturing, selling and distributing innovative diagnostic imaging agents primarily used for the diagnosis of cardiovascular diseases, is headquartered in North Billerica, Massachusetts, with offices in Puerto Rico. Canada and Australia.



National Board of Echocardiography, Inc. (NBE) 1500 Sunday Drive, Suite 102 Raleigh, NC 27607 United States Phone: 919-861-5582

Fax: 919-787-4916 echoboards.org

As the national examination and certification body for Clinical Echocardiography, the NBE® serves as a not-for-profit corporation established to publically recognize those physicians who have completed an approved training program in echocardiography and have passed the ASCeXAM®.



Wolters Kluwer Two Commerce Square 2001 Market Street Philadelphia, PA 19103 United States

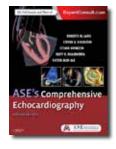
Phone: 215-521-8300 Fax: 215-521-8477 wolterskluwer.com

Wolters Kluwer is the proud publisher of the Journals of the American Heart Association, including Circulation: Cardiovascular Imaging. We offer a full range of specialized books, journals and electronic media. Visit us today.

"Of all my echo textbooks, this one is my favorite...

This textbook is truly comprehensive!... I could sell all the other textbooks and be perfectly happy keeping this book and Reynold's pocket reference."

- Amazon Reviewer



- Written by world experts from the American Society of Echocardiography.
- A unique multimedia resource with text, case studies, and online components.
- Over 200 chapters covering the latest uses of echocardiography, including the most recent 2D and 3D advances.
- Everything you need to assess cardiac anatomy and function for more accurate diagnosis and evaluation of heart disease.
- Includes an online version with an outstanding library of slides and videos of case presentations allowing you to view dynamic echocardiographic clips of various cardiac pathologies.



Visit the ASE Registration Desk at the Review Course or go to ASEMarketPlace.com to purchase ASE's Comprehensive Echocardiography textbook.

Faculty Disclosures

The following faculty members do not have any relationships with industry/commercial supporters to disclose:

Amr Abbas, MD, FASE

Gerard P. Aurigemma, MD, FASE

David B. Adams, RCS, RDCS, FASE

Sidney K. Edelman, PhD

Martin G. Keane, MD, FASE

Steven J. Lester, MD, FASE

Robert A. Levine, MD

Sunil Mankad, MD, FASE

Natesa G. Pandian, MD

Pravin Patil, MD

Michael D. Pettersen, MD

Sabrina D. Phillips, MD, FASE

Miguel Quiñones, MD

Lawrence G. Rudski, MD, FASE

Dennis A. Tighe, MD, FASE

The following faculty members do have financial relationships with industry/commercial supporters to disclose:

Itzhak Kronzon, MD, FASE- Philips Healthcare (Consultant/ Advisor)

The following members of the ASE CME Committee, Education Committee and Board of Directors (not serving as faculty) do not have any relationships with industry/commercial supporters to disclose:

Karima Addetia, MD, Deborah Agler, RCT, RDCS, FASE, Jeanne Marie Baffa, MD, FASE, Daniel Bourque, MS, RCS, FASE, Renee Bullock-Palmer, MD, FASE, Sheila Carroll, MD, Hollie Carron, RDCS, FASE, Faroog Chaudhry, MD. FASE, Karen Chin, BS. RCS, FASE, Patrick Coon, RCCS, RDCS, FASE, Amanda Dillon, RDCS, Benjamin Eidem, MD, FASE, Kymberly Glyde, RDCS, FASE, Aasha Gopal, MD, FASE, Brooke Harland, MEd, RDCS, RVT, FASE, Brandy Hattendorf, MD, FASE, Judy Hung, MD, FASE, Soo Hyun Kim, MD, MPH, RPVI, FASE, Joe Kreeger, RCCS, RDCS, FASE, Shelby Kutty, MD, FASE, Georgeanne Lammertin, MBA, RCS, RDCS, FASE, Melissa LeFevre, RDCS, Jennifer Liu, MD, FASE, Leo Lopez, MD, FASE, Praveen Mehrotra, MD, FASE, Raymond Musarra, RDCS, RCS, FASE, Alina Nicoara, MD, FASE, Maryellen Orsinelli, RN, RDCS, FASE, Kim Connors Pace, BS, RDCS, RVT, FASE, Andy Pellett, PhD, RDCS, FASE, Sue Phillip, RCS, FASE, Juan Carlos Plana, MD, FASE, Vera Rigolin, MD, FASE, Brad Roberts, RCS, FASE, Zainab Samad, MD, MHS, Elaine Shea, APS, RCS, FASE, Sasha Shillcutt, MD, FASE, Jeffrey Silbiger, MD. FASE, Timothy Slesnick, MD. FASE, Gbemigan Sofowora, MD. Raymond Stainback, MD, FASE, Cynthia Taub, MD, FASE, Ellen Thompson, MD, FASE, Juan Villafane, MD, FASE, Jennifer Warmsbecker, RDCS, FASE, Neil Weissman, MD, FASE, Ronald Wharton, MD, FASE, Timothy Woods, MD, FASE, Danita Yoerger-Sanborn, MD, FASE

The following members of the ASE CME Committee, Education Committee and Board of Directors (not serving as faculty) have relationships with industry/commercial supporters to disclose:

Federico Asch, MD, FASE- Medtronic (Research Grant Support); St. Jude Medical (Research Grant Support); Biotronik (Research Grant Support); Sorin Group (Research Grant Support); Boston Scientific (Research Grant Support); Edwards Lifesciences (Research Grant Support); Abbott Vascular (Research Grant Support); Mitralign (Research Grant Support); Direct Flow (Research Grant Support); Xaltis (Research Grant Support)

Meryl Cohen, MD, FASE- Johnson & Johnson (Stock Ownership), Pfizer (Stock Ownership)

Allan Klein, MD, FASE- Bayer (Steering Committee)

Abhay Laddu, MD- Quintiles (Consultant/ Advisor)

Stephen Little, MD, FASE- St. Jude Medical (Research Grant Support); Abbott Structural (Research Grant Support); Medtronic (Research Grant Support)

Tasneem Naqvi, MD, FASE- Adagio (Stock Ownership); Panasonic CardioHealth Station (Research Grant Support)

Roman Sniecinski, MD, FASE- Grifols Therapeutics (Heparin sensitivity advisory board)

Susan Wiegers, MD, FASE- Merck (Stock Ownership); Covance (Spouse Employment)

All members of the ASE staff who were involved in the planning and implementation of this activity do not have any relationships with industry/commercial supporters to disclose:

Erin McClure, Meeting Planner

Hilary Lamb, MPA, Chief Operating Officer

Robin Wiegerink, MNPL, Chief Executive Officer

Ronna Yates, B.S, M.Ed., Education and CME Manager

GOOD COMPANIES. GOOD WORKS.

ASE would like to thank our Industry Roundtable members.









PHILIPS

SIEMENS





