

15th Annual
ASCeXAM/ReASCE
REVIEW COURSE



May 11 - 13, 2014
Philadelphia Marriott Downtown
Philadelphia, PA

Course Director

Steven J. Lester, MD, FASE
Mayo Clinic, Scottsdale, AZ

Course Co-Director

Martin Keane, MD, FASE
Temple Heart and Vascular Center
Philadelphia, PA

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

Featuring:

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

Expert Faculty Includes:

David Adams, RCS, RDCS, FASE
Gerard P. Aurigemma, MD, FASE
Sidney K. Edelman, PhD
Itzhak Kronzon, MD, FASE
Miguel Quiñones, MD
Natesa G. Pandian, MD
Sunil Mankad, MD, FASE
And, many more experts in echocardiography!



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. Almost 100% of previous attendees have indicated that this course helped them prepare well for the examinations.

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.

The ASCeXAM® 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 (1) case-oriented block and three (3) multiple choice blocks covering the following content areas:

- 1) physical principles of ultrasound;
- 2) valvular heart disease;
- 3) ventricular size and function, coronary artery disease, cardiomyopathies;
- 4) congenital heart disease and fetal echocardiography;
- 5) 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 (3) blocks will last up to 60 minutes per block.

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

Who Should Attend?

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.

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 sponsorship 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 22.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ARDMS, CARDUP and CCI 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.

The American Society of Echocardiography 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 relationships that could possibly conflict with the educational value of the program be resolved prior to the educational session and disclosed to the audience.

This was a fantastic course!!

Overall the lectures were excellent. The energy and time put into the talks was clearly evident. The desire to help us reach a greater understanding was clear.

In general the speakers were all excellent — there wasn't a bad one in the bunch. I am glad I went!!

Excellent course; all speakers were very, very good.

Review Course Location & Lodging

ASE's 2014 ASCeXAM/ReASCE Review Course will be held at the Philadelphia Marriott Downtown, 1201 Market St., Philadelphia, PA 19107. Surrounded by rich revolutionary history and culture, this Philadelphia downtown hotel's location exceeds the expectations of all guests. The hotel offers easy accessibility to downtown dining, shopping and attractions including Independence Hall and the Liberty Bell. Philadelphia Marriott Downtown is located just ten miles from Philadelphia International Airport.

ASE has secured a block of rooms at the Philadelphia Marriott Downtown. Special discounted rates for the course are \$189 for a single or double occupancy.

To make reservations by phone, call 1-800-320-5744. Callers should identify themselves as being with the ASE Exam Review Course in order to receive this special room rate. To make reservations online please visit <https://resweb.passkey.com/go/ASEeExam2014>. Reservations must be made by Friday, April 11, 2014 at 5:00 pm EST. Reservations will be guaranteed by the guest's credit card at the time the reservation is made. Guest will be responsible for payment of their hotel room(s), taxes and incidental charges. The check-in time for the Philadelphia Marriott Downtown is 4:00 pm and the check-out time is 12:00 pm.

Syllabus

Attendees will be provided with a memory stick that includes lectures released by faculty in a protected PowerPoint handout format. In addition, attendees will be given the option to purchase a black & white printed syllabus of the PowerPoint slides for \$65.00, as well as a copy of the recorded lectures at a discounted rate during the pre-registration process. Printed syllabi will not be sold on site and attendees must purchase the optional printed syllabus by April 18, 2014 in order to receive it on site at the registration counter.

Course Director:

Steven J. Lester, MD, FASE
Mayo Clinic
Scottsdale, AZ

Course Co-Director:

Martin Keane, MD, FASE
Temple Heart and Vascular Center
Philadelphia, PA

Expert Faculty:

Amr Abbas, MD, FASE
Beaumont Northpointe Heart Center
Berkley, MI

David Adams, RCS, RDCS, FASE
Duke University Medical Center
Durham, NC

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

Sidney K. Edelman, PhD
ESP Ultrasound
The Woodlands, TX

Rebecca T. Hahn, MD, FASE
Columbia University
New York, NY

Itzhak Kronzon, MD, FASE
Lenox Hill Hospital
New York, NY

Robert A. Levine, MD
Massachusetts General Hospital
Boston, MA

Sunil Mankad, MD, FASE
Mayo Clinic
Rochester, MN

Natesa G. Pandian, MD
Tufts Medical Center
Boston, MA

Michael D. Pettersen, MD
Rocky Mountain Pediatric Cardiology
Denver, CO

Sabrina Phillips, MD, FASE
Mayo Clinic
Rochester, MN

Miguel Quiñones, MD
Methodist DeBakey Heart & Vascular Center
Houston, TX

Lawrence G. Rudski, MD, FASE
Jewish General Hospital
Cote St Luc, QC, Canada

Dennis A. Tighe, MD, FASE
University of Massachusetts Medical School
Worcester, MA

Susan E. Wieggers, MD, FASE
Temple University
Philadelphia, PA





COURSE SCHEDULE

Sunday, May 11, 2014

9:30 am **REGISTRATION**

S. Lester, presiding

12:00 pm **Welcome**

Steven Lester, MD, FASE

12:10 pm **Overview of ASCeXAM®**

Susan Wiegers, MD, FASE

Dennis Tighe, MD, FASE

12:30 pm **Pre Test Board Review Questions**

Martin Keane, MD, FASE

1:00 pm **Normal Transthoracic/
Transesophageal Examination**

Susan Wiegers, MD, FASE

1:45 pm **Basic Chamber Quantification**

David Adams, RCS, RDCS, FASE

2:15 pm **Echocardiographic Evaluation of the
Right Ventricle**

Lawrence Rudski, MD, FASE

2:40 pm **Imaging/Knobology/Artifacts**

David Adams, RCS, RDCS, FASE

3:00 pm **Questions**

All Faculty

3:15 pm **VISIT EXHIBITS AND
REFRESHMENT BREAK**

S. Lester, presiding

3:40 pm **Right Heart Hemodynamics:
Echocardiography; PA Catheter
in a Box**

Itzhak Kronzon, MD, FASE

4:05 pm **Myocardial Imaging: Tissue Doppler
and Strain Imaging**

Steven Lester, MD, FASE

4:30 pm **Spectral Doppler Cases**

Gerard Aurigemma, MD, FASE

Itzhak Kronzon, MD, FASE

4:55 pm **Classic M-Mode Echocardiography**

Itzhak Kronzon, MD, FASE

Gerard Aurigemma, MD, FASE

5:20 pm **Cardiac Masses**

Dennis Tighe, MD, FASE

5:45 pm **Read with the Experts: Cases and
Audience Response Questions**

Gerard Aurigemma, MD, FASE

Susan Wiegers, MD, FASE

Itzhak Kronzon, MD, FASE

David Adams, RCS, RDCS, FASE

6:35 pm **ADJOURN**



COURSE SCHEDULE

Monday, May 12, 2014

6:30 am	REGISTRATION	11:25 am	Endocarditis: The Role of Echocardiography <i>Susan Wiegers, MD, FASE</i>
6:40 am	VISIT EXHIBITS & CONTINENTAL BREAKFAST	11:50 am	Valve Disease: Board Review Questions <i>Amr Abbas, MD, FASE</i> <i>Dennis Tighe, MD, FASE</i> <i>Martin Keane, MD, FASE</i>
<i>M. Keane, presiding</i>			
7:20 am	Overview <i>Martin Keane, MD, FASE</i>	12:35 pm	VISIT EXHIBITS & LUNCH <i>S. Lester, presiding</i>
7:30 am	Anatomy of the Mitral Valve and Quantification of Mitral Regurgitation <i>Sunil Mankad, MD, FASE</i>	1:35 pm	Basic Ultrasound Physics <i>Sidney Edelman, PhD</i>
8:00 am	Mitral Valve Stenosis <i>Robert Levine, MD</i>	2:05 pm	Contrast Echocardiography <i>Steven Lester, MD, FASE</i>
8:25 am	Spectrum of Aortic Stenosis <i>Rebecca Hahn, MD, FASE</i>	2:35 pm	Typical Board Questions in Physics <i>Sidney Edelman, PhD</i>
9:00 am	Aortic Stenosis: Severe by Gradient but Not Valve Area? <i>Amr Abbas, MD, FASE</i>	3:05 pm	Artifacts: Theory and Illustrative Examples <i>Robert Levine, MD</i>
9:25 am	Etiology and Quantification of Aortic Regurgitation <i>Martin Keane, MD, FASE</i>	3:35 pm	VISIT EXHIBITS & REFRESHMENT BREAK
9:50 am	Echocardiographic Evaluation of Mitral Valve Prostheses <i>Dennis Tighe, MD, FASE</i>	4:00 pm	Hypertrophic Cardiomyopathy or Phenocopy <i>Steven Lester, MD, FASE</i>
10:15 am	Tricuspid and Pulmonary Valve Disease <i>Lawrence Rudski, MD, FASE</i>	4:25 pm	Echocardiography in Systemic Disease <i>Sunil Mankad, MD, FASE</i>
10:40 am	VISIT EXHIBITS & REFRESHMENT BREAK	4:50 pm	Questions <i>All Faculty</i>
<i>M. Keane, presiding</i>			
11:00 am	Echocardiographic Evaluation of Aortic Valve Prostheses <i>Rebecca Hahn, MD, FASE</i>	5:10 pm	Read with the Experts: Cases and Audience Response Questions <i>Robert Levine, MD</i> <i>Sunil Mankad, MD, FASE</i> <i>Sidney Edelman, PhD</i>
		5:45 pm	ADJOURN



COURSE SCHEDULE

Tuesday, May 13, 2014

6:30 am	REGISTRATION	11:00 am	Congenital Heart Disease Cases <i>Michael Pettersen, MD</i> <i>Sabrina Phillips, MD, FASE</i>
6:30 am	VISIT EXHIBITS & CONTINENTAL BREAKFAST	11:45 am	Applications of 3D Imaging Using a Case Based Approach <i>Sunil Mankad, MD, FASE</i>
<i>M. Keane, presiding</i>		12:10 pm	Echocardiographic Evaluation of Diastolic Function <i>Miguel Quiñones, MD</i>
7:30 am	Overview <i>Martin Keane, MD, FASE</i>	12:45 pm	VISIT EXHIBITS & LUNCH <i>S. Lester, presiding</i>
7:40 am	Stress Echocardiography: Theoretical and Practical Considerations <i>Steven Lester, MD, FASE</i>	1:45 pm	Echocardiographic Evaluation of Hemodynamics in Pericardial Disease <i>Natesa Pandian, MD</i>
8:05 am	Case-Based Echo in Ischemic Heart Disease and Myocardial Infarction <i>Dennis Tighe, MD, FASE</i>	2:10 pm	Case Studies in Diastolic Dysfunction and Pericardial Disease <i>Miguel Quiñones, MD</i> <i>Gerard Aurigemma, MD, FASE</i>
8:30 am	Stress Echocardiography: Illustrative Cases <i>Sunil Mankad, MD, FASE</i> <i>Gerard Aurigemma, MD, FASE</i> <i>Martin Keane, MD, FASE</i>	3:10 pm	Diseases of the Aorta <i>Natesa Pandian, MD</i>
9:30 am	VISIT EXHIBITS & REFRESHMENT BREAK	3:40 pm	Post Test Board Review Questions <i>Martin Keane, MD, FASE</i>
9:50 am	Commonly Encountered Congenital Heart Disease in Adults <i>Sabrina Phillips, MD, FASE</i>	4:15 pm	ADJOURN
10:30 am	Congenital Heart Disease: An Approach for Simple and Complex Anomalies <i>Michael Pettersen, MD</i>		



Course Registration Information

Historically, the ASCeXAM/ReASCE Review Course has sold out months before attendees are to be on site. Due to the popularity of the Review Course, it is recommended that you submit your registration as soon as possible. To ensure that all participants have adequate space and resources to maximize their learning experience, ASE reserves the right to limit the number of attendees for the Review Course.

ASE will make every effort to accommodate as many registrants as possible. Registrations received after the course is full will be placed on a waiting list.

On-site registrations will not be allowed if the course fills before May 5, 2014. ASE is not responsible for airline ticket or hotel accommodations should registrants be unable to register for the course. Please make sure you have a confirmed registration via email from ASE before making any travel reservations.

Cancellation Policy

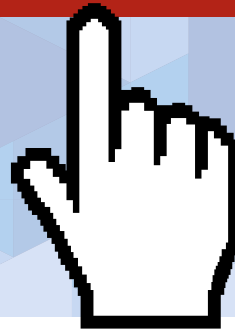
If you wish to cancel your participation in the 2014 ASCeXAM/ReASCE Review Course, your registration fee, less a \$100.00 administrative fee will be refunded when written notification is received on or before April 10, 2014. No refunds will be made after April 10, 2014 or given for no-shows. Registration for any ASE course is non-transferable to another participant or another course. In the event that an individual is unable to attend the conference due to inclement weather or chooses not to attend due to a health epidemic, ASE is unable to refund the conference fee. In the unlikely event the course is cancelled, ASE is responsible only for refund of the registration fee, minus the administrative fee, and not for transportation, hotel accommodations, or any miscellaneous expenses incurred by the participant.

Questions and Contact Information

If you have any questions about the ASCeXAM/ReASCE Review Course, please call ASE Headquarters at (919) 861-5574 or email us at ReviewCourse@asecho.org.



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 four hundred 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 contract 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 thirteen 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 for just \$199



Visit <http://netclients.captus.com/ase> to purchase now!

ASCeXAM/ReASCE

REVIEW COURSE REGISTRATION FORM

May 11-13, 2014 • Philadelphia Marriott Downtown, Philadelphia PA • Course Director: Steven Lester, MD, FASE

Your registration fee includes breakfast and lunch on Monday and Tuesday, daily breaks, and 22.25 hours of CME credit. All other meals are on your own.

Name: _____

First Name

Middle Initial

Last Name

Credential: ☐ MD ☐ DO ☐ PhD ☐ RN ☐ RCS ☐ RDCS ☐ Other

ASE Member Number: _____

Institution: _____

Email Address: _____

(All correspondence regarding your registration will be sent to this email address.)

Which is your preferred mailing address? ☐ Work/Business ☐ Home

Street Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____ Country: _____

Telephone: _____ Fax: _____

☐ If you need disability accommodations, please check here and advise us of your needs at least two weeks before the program.

Special Needs: ASE encourages participation by all individuals. If you have a disability or other specific needs, advance notification will help ASE to better serve you. Please contact ASE by email at ReviewCourse@asecho.org or telephone at (919) 861-5574.

Special Dietary Needs: _____

Registration Fees: ☐ ASE Member Physician: \$775 ☐ ASE Member Allied Health: \$650 ☐ ASE Member Resident/Fellow in Training: \$725
*Prior to April 12, 2014** ☐ Nonmember Physician: \$995 ☐ Nonmember Allied Health: \$800 ☐ Nonmember Resident/Fellow in Training: \$850

After April 12, 2014: ASE Physician Member- \$875; Nonmember Physician- \$1095; ASE/Allied Health Member\$750; Nonmember Allied Health \$900; ASE Member Resident/Fellow in Training: \$825; Nonmember Resident/Fellow in Training: \$950.

Non-Member Rates: Your registration fees will include a complimentary 2014 ASE membership!

☐ Yes, I accept the 2014 ASE membership included in my registration free. ☐ No, thank you, I do not wish to join ASE at this time.

Syllabus

Course attendees who would like to purchase a black & white printed syllabus of the PowerPoint slides must check here. The printed syllabus will not be available for purchase on site. Syllabi must be purchased by April 18, 2014.

☐ \$65.00 printed syllabus provided on site at registration counter.

ASCeXAM/ReASCE Conference Online Library

☐ \$199.00 Order now and save! The Review Course library includes unlimited online access to the 2014 ASCeXAM/ReASCE Review Course recorded sessions. Study prior to the exam and educate your staff year-round with the ASE Online Library.

Payment must accompany this form

☐ Check (payable to American Society of Echocardiography in U.S. dollars drawn on a U.S. bank)

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Cardholder's Name: _____

Card Number: _____ Expiration Date: _____

Register online and receive an immediate receipt! www.asecho.org/ReviewCourse

AMERICAN SOCIETY OF ECHOCARDIOGRAPHY INC, P.O. Box 890082, Charlotte, NC 28289-0082

Phone: 919-861-5574, Fax: 919-882-9900

Email: registrar@asecho.org, Web site: www.asecho.org/ReviewCourse



ASE Foundation

2100 Gateway Centre Blvd.
Suite 310
Morrisville, NC 27560

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15th Annual

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**Get prepared for the NBE certification exams by registering
for this premier ASE educational course.**



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**Register now!
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