

# ASCeXAM/ReASCE REVIEW COURSE

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

# 19th ANNUAL

Register by  
April 5, 2018,  
and save  
\$100!

## ADVANCE PROGRAM

May 5-8, 2018  
Marriott Copley Place  
Boston, MA

### New in 2018

- ✓ Practice Board Exam Questions
- ✓ Registration Includes Online Lecture Recordings
- ✓ New Faculty and Presentations

#### Course Director

Roberto M. Lang, MD, FASE  
Past President, ASE  
University of Chicago Medical Center  
Chicago, IL

#### Course Co-Director

Susan E. Wieggers, MD, FASE  
Past President, ASE  
Lewis Katz School of Medicine at  
Temple University  
Philadelphia, PA



Jointly Provided by ASE and the ASE Foundation

# Program Information

Expert faculty  
will walk you  
through ASCeXAM  
questions after  
each session.

## 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 receive access to the presentation website that will include lectures released by faculty in PDF format. **In addition, attendees will receive the recorded lectures from this course.**

## 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 1.5 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](http://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.

## Course Registration

Registration fees include breakfasts, lunches, refreshment breaks, access to course materials, all online lecture recordings, and CME credit. ASE members can take advantage of reduced registration fees as a benefit of membership. Register online at [ASEcho.org/ReviewCourse](http://ASEcho.org/ReviewCourse).

## Online Lecture Recordings

This year all online recordings are included with your course registration. You will be notified by email when the library of lectures has been posted to [ASEUniversity.org](http://ASEUniversity.org). Look for notification about one month after the conclusion of the course.

## ASE Membership

Nonmember registrants for the 19th Annual ASCeXAM/ReASCE Review Course will receive a complimentary American Society of Echocardiography (ASE) membership through December 31, 2018, with their registration. **This membership is only available to those who have never been a member of ASE.** ASE serves its members in numerous ways by providing education, advocacy, research, practice guidelines, and a community for their profession. ASE membership includes over \$750 of FREE CME credits a year, in addition to discounts on all ASE educational courses and products. Also included is a monthly subscription to the *Journal of the American Society of Echocardiography* (JASE), online access to CASE, help with legislative coding and reimbursement issues, and other career resources. A plethora of online tutorials, webinars, and other educational activities make membership beneficial to echocardiographers located around the world. View the extensive list of member benefits at [ASEcho.org](http://ASEcho.org).



# Program Information

## Invited Faculty

### Course Director

**Roberto M. Lang, MD, FASE**  
Past President, ASE  
University of Chicago Medical Center  
Chicago, IL

### Expert Faculty

**Amr E. Abbas, MD, FASE**  
Beaumont Health System  
Berkley, MI

**Karima Addetia, MD**  
University of Chicago Medical Center  
Chicago, IL

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

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

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

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

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

### Course Co-Director

**Susan E. Wieggers, MD, FASE**  
Past President, ASE  
Lewis Katz School of Medicine  
at Temple University  
Philadelphia, PA

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

**Sunil V. Mankad, MD, FASE**  
Mayo Clinic  
Rochester, MN

**Jae K. Oh, MD, FASE**  
Mayo Clinic  
Rochester, MN

**Pravin Patil, MD, FASE**  
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**  
Mayo Clinic  
Jacksonville, FL

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

## Accreditation & Designation

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



The American Society of Echocardiography designates this live activity for a maximum of **32.50 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity enables the participant to earn up to **32.50 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.

## Accommodations & Lodging

ASE's 2018 ASCeXAM/ReASCE Review Course will be held at the Boston Marriott Copley Place, 110 Huntington Avenue, Boston, MA 02116. The hotel is located in downtown, steps away from Copley Square and captivating attractions such as Boston Common and Fenway Park. It is also close to great shopping and restaurants at the Prudential Center and Newbury Street, and is less than 10 miles from Boston Logan International Airport.

ASE has secured a block of rooms at the discounted rate of \$269 per night. To make reservations, please call Marriott Reservations at 877-901-2079 or visit [ASEcho.org/AccommodationsReview](http://ASEcho.org/AccommodationsReview). The hotel room block is scheduled to be held until 6:00 PM EST on Friday, April 13, 2018, but may be sold out before this date. Therefore, we advise you to register for the program and reserve your lodging as soon as possible. All reservations must be guaranteed and accompanied by a first night room deposit or guaranteed with a major credit card. Guestroom cancellation must occur 24 hours prior to arrival. If the guest does not check-in OR has not canceled their reservation 24 hours prior to arrival, one night's room & tax will be charged to the guest's credit card. The check-in time for the Marriott Copley Place is 4:00 PM and checkout time is 12:00 PM.

From the charming cobblestones of Beacon Hill and revolutionary landmarks of the Freedom Trail, to the iconic grounds of Harvard University, Boston is a walking city. Public transportation is accessible and convenient. The best way to enjoy this compact, friendly, and delightful city is to take to the streets and enjoy an endless variety of restaurants, music venues, museums, colleges, and sights to see. Boston's dining options are dynamic and delicious. Area chefs present signature specialties made from the freshest local ingredients. New restaurants and old favorites cater to every palate.

**"The faculty  
was terrific and  
their love of echo was  
infectious."**

*Past Review Course  
Attendee*



# Course Schedule

## Saturday, May 5, 2018

9:30 AM Registration

*Moderator: R. Lang*

12:00 PM **Welcome and Overview of ASCeXAM**  
*R. Lang*

12:10 PM **Normal TTE Examination, Doppler Echocardiography and Normal Antegrade Flow Patterns**  
*P. Patil*

12:55 PM **Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications**  
*M. Keane*

1:40 PM **Guidelines for Chamber Quantification**  
*R. Lang*

2:30 PM Refreshment Break & Visit Exhibits

*Moderator: G. Aurigemma*

3:00 PM **Endocarditis and Its Complications: The Role of Echocardiography**  
*P. Patil*

3:45 PM **Echo-Doppler Assessment of Right and Left Ventricular Hemodynamics**  
*I. Kronzon*

4:30 PM **Global and Regional Systolic Function: Basics of Remodeling, Hypertrophy and Left Ventricle Mass**  
*G. Aurigemma*

5:15 PM **Practice Board Exam Questions on Endocarditis, Hemodynamics, and Left Ventricle Remodeling**  
*G. Aurigemma, M. Keane, I. Kronzon, R. Lang, P. Patil*

6:30 PM Member Reception

## Sunday, May 6, 2018

6:30 AM Registration

6:30 AM Breakfast & Visit Exhibits

*Moderator: M. Keane*

7:20 AM **Overview**  
*R. Lang*

7:30 AM **Spectral Doppler and M-Mode Echo Cases**  
*G. Aurigemma, I. Kronzon*

8:00 AM **Tissue Doppler and Strain Imaging**  
*S. Lester*

8:30 AM **Cardiac Masses**  
*D. Tighe*

9:00 AM **Quantification of Mitral Regurgitation: New Guidelines**  
*S. Mankad*

9:30 AM Refreshment Break & Visit Exhibits

10:00 AM **Mitral Stenosis**  
*R. Levine*

10:30 AM **Degenerative and Functional Mitral Valve Disease**  
*R. Lang*

11:15 AM **Practice Board Exam Questions on Mitral Valve Disease and Cardiac Masses**  
*G. Aurigemma, I. Kronzon, R. Lang, S. Lester, R. Levine, S. Mankad, D. Tighe*

12:15 PM Lunch & Visit Exhibits

*Moderator: G. Aurigemma*

1:15 PM **Echocardiographic Evaluation of Mitral Valve Prostheses**  
*D. Tighe*

1:50 PM **How to Assess Aortic Stenosis: New Guidelines (Bicuspid Valve, Dilated Aortic Root)**  
*M. Keane*

2:30 PM **Different Variants of Aortic Stenosis**  
*A. Abbas*

3:15 PM Refreshment Break & Visit Exhibits

3:45 PM **Hypertrophic Cardiomyopathy or Phenocopy?**  
*S. Lester*

4:45 PM **Echocardiography in Systemic Disease**  
*S. Mankad*

5:15 PM **Practice Board Exam Questions on Aortic Valve Disease, Hypertrophic Cardiomyopathy, and Systemic Disease**  
*A. Abbas, M. Keane, S. Lester, S. Mankad, D. Tighe*

6:30 PM Adjourn



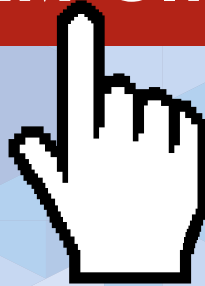
# Course Schedule

<b>Monday, May 7, 2018</b>	
6:30 AM	<b>Registration</b>
6:30 AM	<b>Breakfast &amp; Visit Exhibits</b>
<b>Moderator: S. Mankad</b>	
7:20 AM	<b>Overview</b> <i>R. Lang</i>
7:30 AM	<b>Basic Ultrasound Physics</b> <i>S. Edelman</i>
8:15 AM	<b>Artifacts: Theory and Illustrative Examples</b> <i>R. Levine</i>
9:00 AM	<b>Fundamentals in Doppler Physics</b> <i>S. Edelman</i>
9:45 AM	<b>Concepts of Imaging and Knobology</b> <i>S. Wiegiers</i>
10:30 AM	<b>Refreshment Break &amp; Visit Exhibits</b>
11:00 AM	<b>Echocardiographic Evaluation of the Right Ventricle</b> <i>S. Lester</i>
11:45 AM	<b>Tricuspid and Pulmonary Valve Disease: New Guidelines</b> <i>K. Addetia</i>
12:30 PM	<b>Practice Board Exam Questions on Physics, Echocardiographic Artifacts, Right Ventricular Function, and Tricuspid Valve</b> <i>K. Addetia, S. Edelman, S. Lester, R. Levine, S. Wiegiers</i>
1:15 PM	<b>Lunch &amp; Visit Exhibits</b>
<b>Moderator: G. Aurigemma</b>	
2:15 PM	<b>Echocardiographic Evaluation of Aortic Valve Prostheses</b> <i>A. Abbas</i>
3:00 PM	<b>Quantitation of Aortic Regurgitation</b> <i>S. Wiegiers</i>
3:45 PM	<b>Stress Echocardiography: Theoretical and Practical Considerations</b> <i>M. Keane</i>
4:30 PM	<b>Refreshment Break &amp; Visit Exhibits</b>
5:00 PM	<b>Complications of Myocardial Infarction</b> <i>S. Mankad</i>
5:30 PM	<b>3D Echocardiography: Principles and Applications</b> <i>R. Lang</i>
6:30 PM	<b>Practice Board Exam Questions on Stress Echocardiography, 3D, Hypertrophic Cardiomyopathy, and Systemic Disease</b> <i>A. Abbas, M. Keane, R. Lang, S. Mankad, S. Wiegiers</i>
7:30 PM	<b>Adjourn</b>

<b>Tuesday, May 8, 2018</b>	
6:30 AM	<b>Registration</b>
6:30 AM	<b>Breakfast &amp; Visit Exhibits</b>
<b>Moderator: S. Lester</b>	
7:00 AM	<b>Contrast Echocardiography</b> <i>G. Aurigemma</i>
7:30 AM	<b>Commonly Encountered Congenital Heart Disease in Adults</b> <i>S. Phillips</i>
8:15 AM	<b>Congenital Heart Disease: An Approach for Simple and Complex Anomalies</b> <i>M. Pettersen</i>
9:00 AM	<b>Congenital Heart Disease Cases</b> <i>M. Pettersen, S. Phillips</i>
9:45 AM	<b>Refreshment Break &amp; Visit Exhibits</b>
10:15 AM	<b>Echocardiographic Evaluation of Diastolic Function</b> <i>J. Oh</i>
11:15 AM	<b>Echocardiographic Evaluation of Pericardial Disease: Constriction vs. Restriction</b> <i>J. Oh</i>
12:00 PM	<b>Practice Board Exam Questions on Diastolic Dysfunction, Pericardial Disease, and Congenital Heart Disease</b> <i>R. Lang, J. Oh, M. Pettersen, S. Phillips</i>
1:00 PM	<b>Lunch &amp; Visit Exhibits</b>
<b>Moderator: R. Lang</b>	
2:00 PM	<b>Diseases of the Aorta</b> <i>S. Wiegiers</i>
2:45 PM	<b>Echocardiography in Heart Failure and Left Ventricular Assist Devices</b> <i>K. Addetia</i>
3:30 PM	<b>Adjourn</b>



# The 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.

In a recent survey conducted by ASE, 97% of the people who took ASE's ASCeXAM/ReASCE Review Course and used the Simulation Exam passed the echo boards.

**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](http://ASEUniversity.org) to purchase now!**

Your ASCeXAM/ReASCE Review Course registration fee includes breakfast, lunch, refreshment breaks, online access to course materials and all online lecture recordings, and 32.50 CME credits/MOC points. All other meals are on your own.

Name: \_\_\_\_\_

First Name

Middle Initial

Last Name

Credential:  MD  DO  PhD  RN  RCS  RDCS  Other

Institution: \_\_\_\_\_

Email Address: \_\_\_\_\_

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

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](mailto:reviewcourse@ASEcho.org) or by telephone at 919-861-5574.

Special Dietary Needs: \_\_\_\_\_

### Registration Fees

*Prices include access to all online lecture recordings. An email will be sent to you about one month after the course with details on how to access the content.*

	Through April 5, 2018	After April 5, 2018
<b>ASE Physician Member</b>	<b>\$1,095</b>	<b>\$1,195</b>
<b>Physician Nonmember*</b>	<b>\$1,300</b>	<b>\$1,400</b>
<b>ASE Sonographer/Allied Health Member</b>	<b>\$925</b>	<b>\$1,025</b>
<b>Sonographer/Allied Health Nonmember*</b>	<b>\$1,025</b>	<b>\$1,125</b>
<b>ASE Member Fellow in Training*</b>	<b>\$975</b>	<b>\$1,075</b>
<b>Fellow in Training Nonmember*</b>	<b>\$1,075</b>	<b>\$1,175</b>

\* This registration fee includes ASE membership through December 31, 2018. Membership is only available to those who have never been a member of ASE.

### ASCeXAM/ReASCE Online Practice Exam Simulation

Order your ASCeXAM/ReASCE Online Practice Exam at the same time you register. \$199 ASE member \$250.00 Nonmember.

### Payment Information

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: \_\_\_\_\_ CVC #: \_\_\_\_\_

*Registration cancellation fees may apply and ASE reserves the right to determine if a refund is possible. Please see the full cancellation policy online at [ASEcho.org/ReviewCourse](http://ASEcho.org/ReviewCourse).*



American Society of Echocardiography  
2530 Meridian Parkway, Suite 450  
Durham, NC 27713

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