

ASCeXAM/ReASCE REVIEW COURSE

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

21st ANNUAL

SAVE \$100
BY REGISTERING BEFORE
APRIL 9, 2020

May 9 – 12, 2020
Sheraton Boston Hotel
Boston, MA

Course Director

Vera H. Rigolin, MD, FASE
Past President, ASE
Northwestern Medicine
Chicago, IL

Featuring:

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

Register now at ASEcho.org/ReviewCourse



Jointly provided by ASE and the ASE Foundation

Program Information

Overview of the ASCeXAM/ReASCE Review Course

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 1½ hours while the other three blocks will last up to 60 minutes per block.

The ASCeXAM® and ReASCE® exams will be held on Tuesday, July 28, 2020. More details concerning these examinations can be found on the NBE website at 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.

Online Lecture Recordings

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. Look for notification about one month after the conclusion of the course.

ASE Membership

Nonmember registrants for the 21st Annual ASCeXAM/ReASCE Review Course will receive a complimentary membership through December 31, 2020, 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), access to CASE, ASE's online case reports journal, 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.



Program Information

Invited Faculty

Course Director

Vera H. Rigolin, MD, FASE
Past President, ASE
Northwestern Medicine
Chicago, IL

Expert Faculty

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

Benjamin W. Eidem, MD, FASE
Mayo Clinic
Rochester, MN

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

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

Rehka Mankad MD, FASE
Mayo Clinic
Rochester, MN

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

Akhil Narang, MD
Northwestern Medicine
Chicago, IL

Pravin Patil, MD, FASE
Lewis Katz School of Medicine at
Temple University
Philadelphia, PA

Sabrina D. Phillips, MD, FASE
Mayo Clinic
Jacksonville, FL

Muhamed Saric, MD, PhD, FASE
New York University
New York, NY

Partho P. Sengupta, MBBS, MD, FASE
West Virginia University Healthcare
Morgantown, WV

Accreditation and Designation

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

ASE designates this live activity for a maximum of **30.25 AMA PRA Category 1 Credits™** pending approval. 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 **30.25 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 2020 ASCeXAM/ReASCE Review Course will be held at the Sheraton Boston Hotel, 39 Dalton Street, Boston, MA 02199. This hotel will greet you with upscale accommodations, outstanding service, and an incredible location in downtown Boston. Nestled in the historic Back Bay neighborhood, it is the perfect backdrop for work and play. Experience iconic Boston attractions like Fenway Park or stroll along Newbury Street, home to premier shopping and dining. The Sheraton Boston Hotel also features sweeping views of Back Bay and the Charles River, a 5,000-square-foot spa, and 24-hour fitness center, including a heated indoor pool. It is less than 20 miles from Boston Logan International Airport.

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.

ASE has secured a block of rooms at the discounted rate of \$280 (plus tax) per night. To make reservations, please call Sheraton Reservations at 888-627-7054 or visit ASEcho.org/ReviewCourse/Accommodations. The hotel room block is scheduled to be held until 6:00 PM EST on Friday, April 17, 2020, 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 by 11:59 PM three (3) days prior to arrival. If the guest does not check-in OR has not canceled their reservation by this deadline, one night's room & tax will be charged to the guest's credit card. The check-in time for the Sheraton Boston Hotel is 4:00 PM, and checkout time is 12:00 PM.

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

*Past Review Course
Attendee*

Course Schedule

Saturday, May 9, 2020	
7:30 AM	Registration
<i>Moderator: G. Aurigemma</i>	
11:30 AM	Welcome and Overview of ASCeXAM/ReASCE Exam <i>V. Rigolin</i>
11:45 AM	Normal TTE Examination, Doppler Echocardiography, and Normal Antegrade Flow Patterns <i>P. Patil</i>
12:15 PM	Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications <i>M. Keane</i>
12:45 PM	Echo-Doppler Assessment of Right and Left Ventricular Hemodynamics <i>G. Aurigemma</i>
1:15 PM	Refreshment Break and Visit Exhibits
<i>Moderator: TBD</i>	
1:45 PM	Endocarditis and Its Complications: The Role of Echocardiography <i>P. Patil</i>
2:15 PM	Chamber Quantitation: Left Ventricle, Left Atrium, Aorta (2D&3D) <i>G. Aurigemma</i>
2:45 PM	Global and Regional Systolic Function: Basics of Remodeling, Hypertrophy, and Left Ventricular Mass <i>G. Aurigemma</i>
3:15 PM	Refreshment Break and Visit Exhibits
3:45 PM	Practice Board Questions on TTE, TEE, Right and Left Ventricular Hemodynamics, Endocarditis, Chamber Quantitation, and Systolic Function <i>G. Aurigemma, M. Keane, P. Patil</i>
5:15 PM	Adjourn

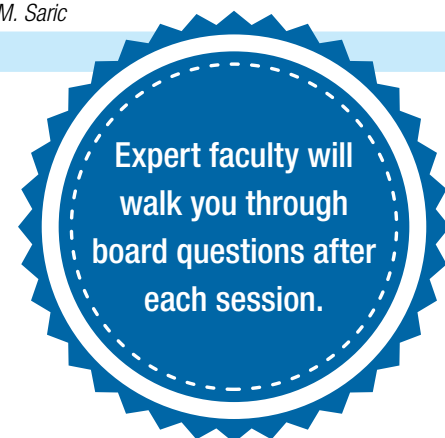
Sunday, May 10, 2020	
6:15 AM	Registration, Breakfast, and Visit Exhibits
<i>Moderator: V. Rigolin</i>	
7:20 AM	Overview <i>V. Rigolin</i>
7:30 AM	Spectral Doppler and M-Mode Echo Cases <i>G. Aurigemma</i>
8:00 AM	Deformation Imaging <i>S. Lester</i>
8:30 AM	Stress Echocardiography: Theoretical and Practical Considerations <i>M. Keane</i>
9:00 AM	Mitral Stenosis <i>R. Mankad</i>
9:30 AM	Refreshment Break and Visit Exhibits
10:00 AM	Degenerative Mitral Valve Disease <i>K. Addetia</i>
10:30 AM	Functional Mitral Valve Disease <i>V. Rigolin</i>
11:00 AM	Quantification of Mitral Regurgitation: New Guidelines <i>S. Mankad</i>
11:30 AM	Practice Board Questions on Spectral Doppler, Deformation, Stress Echo, Mitral Stenosis, Mitral Valve Disease, and Mitral Regurgitation <i>K. Addetia, G. Aurigemma, M. Keane, S. Lester, R. Mankad, S. Mankad, V. Rigolin</i>
12:30 PM	Lunch and Visit Exhibits
<i>Moderator: G. Aurigemma</i>	
1:30 PM	Echocardiographic Evaluation of Mitral Valve Prostheses <i>S. Lester</i>
2:00 PM	How to Assess Aortic Stenosis: New Guidelines <i>V. Rigolin</i>
2:30 PM	Different Variants of Aortic Stenosis <i>S. Mankad</i>
3:00 PM	Hypertrophic Cardiomyopathy <i>S. Lester</i>
3:30 PM	Refreshment Break and Visit Exhibits
4:00 PM	Echocardiography in Systemic Disease <i>R. Mankad</i>
4:30 PM	Which Formulas Should I Know For the Exam? <i>A. Narang</i>
5:00 PM	Practice Board Questions on Mitral Valve Prostheses, Aortic Stenosis, HCM, Systemic Disease and Formulas <i>S. Lester, A. Narang, R. Mankad, S. Mankad, V. Rigolin</i>
6:30 PM	Adjourn



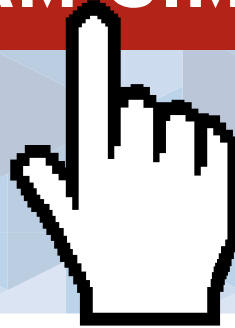
Course Schedule

Monday, May 11, 2020	
6:30 AM	Registration, Breakfast, and Visit Exhibits
<i>Moderator: P. Patil</i>	
7:20 AM	Overview <i>V. Rigolin</i>
7:30 AM	Basic Ultrasound Physics <i>TBD</i>
8:00 AM	Concepts of Imaging and Knobology <i>P. Patil</i>
8:30 AM	Fundamentals in Doppler Physics <i>TBD</i>
9:00 AM	Artifacts: Theory and Illustrative Examples <i>M. Keane</i>
9:30 AM	Evaluation of the Right Ventricle <i>V. Rigolin</i>
10:00 AM	Refreshment Break and Visit Exhibits
10:30 AM	Tricuspid and Pulmonary Valve Disease: New Guidelines <i>K. Addetia</i>
11:00 AM	More Formulas I Need to Know for the Exam <i>A. Narang</i>
11:30 AM	Practice Board Questions on Physics, Knobology, Artifacts, Right Ventricular Function, Tricuspid and Pulmonary Valve Disease, Appropriate Use Criteria, and IAC Accreditation <i>K. Addetia, M. Keane, A. Narang, P. Patil, V. Rigolin</i>
1:00 PM	Lunch and Visit Exhibits
<i>Moderator: V. Rigolin</i>	
2:00 PM	Quantitation of Aortic Regurgitation <i>V. Rigolin</i>
2:30 PM	Evaluation of Aortic Prosthesis <i>S. Mankad</i>
3:00 PM	Cardiac Masses <i>A. Narang</i>
3:30 PM	Complications of Myocardial Infarction <i>S. Mankad</i>
4:00 PM	Primer of Interventional Echocardiography <i>M. Saric</i>
4:30 PM	Refreshment Break and Visit Exhibits
5:00 PM	Practice Board Questions on Aortic Regurgitation, Aortic Prosthesis, Cardiac Masses, Myocardial Infarction, and Interventional Echocardiography <i>A. Narang, S. Mankad, V. Rigolin, M. Saric</i>
6:30 PM	Adjourn

Tuesday, May 12, 2020	
6:30 AM	Registration, Breakfast, and Visit Exhibits
<i>Moderator: V. Rigolin</i>	
7:00 AM	Contrast Echocardiography <i>M. Saric</i>
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 <i>B. Eidem</i>
9:00 AM	Congenital Heart Disease Cases <i>B. Eidem, S. Phillips</i>
9:45 AM	Refreshment Break and Visit Exhibits
10:15 AM	Echocardiographic Evaluation of Diastolic Function <i>P. Sengupta</i>
10:45 AM	Echocardiographic Evaluation of Pericardial Disease: Constriction vs. Restriction <i>P. Sengupta</i>
11:15 AM	Practice Board Questions on Contrast, Congenital Heart Disease, Diastolic Function, and Pericardial Disease <i>B. Eidem, S. Phillips, M. Saric, P. Sengupta</i>
1:00 PM	Lunch and Visit Exhibits
<i>Moderator: TBD</i>	
2:00 PM	Diseases of the Aorta <i>M. Saric</i>
2:30 PM	Echocardiography in Heart Failure and Left Ventricular Assist Devices <i>K. Addetia</i>
3:00 PM	Practice Board Questions on Diseases of Aorta, Echo in Heart Failure and Left Ventricular Assist Devices <i>K. Addetia, M. Saric</i>
3:30 PM	Adjourn



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 to purchase now!



ASE Foundation

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

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