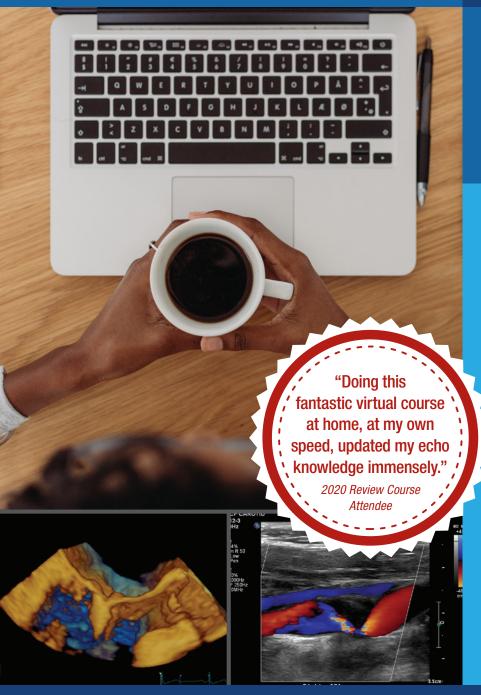
ASCeXAM/ReASCE REVIEW COURSE

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





VIRTUAL EXPERIENCE Content available on May 8, 2021

Course Director

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

Course Co-Director

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

Featuring:

- Access to All Presentation Recordings, including Physics
- New Faculty and Presentations

Register now at ASEcho.org/ReviewCourse





Program Information

Overview of the ASCeXAM/ReASCE Review Course: Virtual Experience

This online course will be available on **Saturday, May 8, 2021**, and will offer access to recordings and PDF slides of all scheduled presentations, including physics. 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 and lectures to help prepare attendees for the ASCeXAM® or ReASCE® examinations. The Review Course has been designed with the computer-based examination administration in mind.

Learning Objectives

- 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, diastolic function, and heart failure.
- 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 and 3D echocardiography.

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.

As of now, the ASCeXAM® and ReASCE® exams will be held on Tuesday, July 20, 2021. 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 all recorded presentations, PDF downloads, post-test questions, Q&A sessions with expert faculty, and 28.75 CME credits. ASE members can take advantage of reduced registration fees as a benefit of membership. Register online today at **ASEcho.org/ReviewCourse**. Registration closes on July 31, 2021, but registrants will have unlimited on-demand access to course content through May 2, 2022.

The expert faculty will host two 2-hour live Q&A sessions on **Saturday**, **July 10**, **2021**, **from 10:00 AM** – **12:00 PM ET**, **and 12:30** – **2:30 PM ET**. This will be another opportunity to review additional board type questions, different from those found in the course. It is also a time for faculty to answer your specific questions, review course material, and dive deeper into certain subjects. These live Q&A sessions are included with your course registration, and will be recorded for on-demand viewing. More information on these sessions will be available here in Spring 2021: **ASEcho.org/ReviewCourse**.

Program Information

Invited Faculty

ASE Membership

You are welcome to join or renew your ASE membership when you register for the Review Course. Your membership will be active through **December 31, 2021**.

Membership rates are the same for new and renewing members.

U.S. Physician/Scientist Membership
U.S. Sonographer/Allied Health/Vet Membership\$17
International Membership
Fellow in Training & Student U.S. and International Membership \$75
Rising Star U.S. Membership
Rising Star International Membership\$10
Professional Industry Affiliate
Retired U.S. and International Membership \$100

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/Benefits**.

Accreditation and Designation

The CME Evaluation will be available beginning July 10, 2021. 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 **28.75** *AMA PRA Category 1 Credits*TM 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 28.75 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.







Course Director

Vera H. Rigolin, MD, FASE

Past President, ASE

Northwestern Medicine

Chicago, IL



Course Co-Director Muhamed Saric, MD, PhD, FASE New York University New York, NY

Expert Faculty

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

Gerard P. Aurigemma, MD, FASE UMass Memorial Medical Center Worcester, MA

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

Renuka Jain, MD, FASE Aurora Health Care Milwaukee. WI

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, FASE Northwestern Medicine Chicago, IL

Dermot Phelan, MD, PhD, FASE Sanger Heart and Vascular Institute Charlotte, NC

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

Sangeeta B. Shah, MD, FASE Virgina Commonwealth University Richmond, VA

James A. Zagzebski, PhD University of Wisconsin-Madison Madison, WI

Course Content

TTE, TEE, Right and Left Ventricular Hemodynamics, Endocarditis, Chamber Quantitation, Systolic Function and Handheld Echo

Welcome and Overview of ASCeXAM/ReASCE Exam	V. Rigolin
Normal TTE Examination: Doppler Echocardiography and Normal Antegrade Flow Patterns	D. Phelan
Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications	R. Jain
Echo-Doppler Assessment of Right and Left Ventricular Hemodynamics	G. Aurigemma
Endocarditis and Its Complications: The Role of Echocardiography	M. Saric
Chamber Quantitation: Left Ventricle, Left Atrium, Aorta (2D&3D)	G. Aurigemma
Global and Regional Systolic Function: Basics of Remodeling, Hypertrophy and Left Ventricular Mass	G. Aurigemma
Handheld Echo	M. Saric

Spectral Doppler, Deformation, Stress Echo, Mitral Stenosis, Mitral Valve Disease, and Mitral Regurgitation

Spectral Doppler and M-Mode Echo Cases	G. Aurigemma
Deformation Imaging	S. Lester
Stress Echocardiography: Theoretical and Practical Considerations	D. Phelan
Mitral Stenosis	R. Mankad
Degenerative Mitral Valve Disease	K. Addetia
Functional Mitral Valve Disease	V. Rigolin
Hemodynamic Assessment of Mitral Regurgitation	S. Mankad

Mitral Valve Prostheses, Aortic Stenosis, HCM, Systemic Disease, and Formulas

Echocardiographic Evaluation of Mitral Valve	
Prostheses	S. Lester
How to Assess Aortic Stenosis	V. Rigolin
Different Variants of Aortic Stenosis	S. Mankad
Hypertrophic Cardiomyopathy	S. Lester
The Athlete's Heart	D. Phelan
Echocardiography in Systemic Disease	R. Mankad
Which Formulas Should I Know for the Exam?	A. Narang

Physics, Knobology, Artifacts, Right Ventricular Function, Tricuspid and Pulmonary Valve Disease

Basic Ultrasound Physics	J. Zagzebski
Concepts of Imaging and Knobology	R. Mankad
Fundamentals in Doppler Physics	J. Zagzebski
Artifacts: Theory and Illustrative Examples	M. Saric
Evaluation of the Right Ventricle	V. Rigolin
Tricuspid and Pulmonary Valve Disease	K. Addetia
More Formulas I Know for the Exam	A. Narang

Aortic Regurgitation, Aortic Prosthesis, Cardiac Masses, Myocardial Infarction, and Interventional Echocardiography

Quantitation of Aortic Regurgitation	V. Rigolin
Evaluation of Aortic Prosthesis	S. Mankad
Cardiac Masses and Cardiac Sources of Embolism	A. Narang
Complications of Myocardial Infarction	S. Mankad
Primer of Interventional Echo	R. Jain

Contrast, Congenital Heart Disease, Diastolic Function, Pericardial Disease, Diseases of the Aorta, Heart Failure, and LVADs

Contrast Echocardiography	M. Saric
Commonly Encountered Congenital Heart Disease in Adults	S. Shah
Pregnancy and Heart Disease	S. Shah
Congenital Heart Disease: An Approach for Simple and Complex Anomalies	B. Eidem
Primer on Fetal Echo	B. Eidem
Echocardiographic Evaluation of Diastolic Function and Findings in Normal Aging	P. Sengupta
Echocardiographic Evaluation of Pericardial Disease: Constriction vs. Restriction	P. Sengupta
Diseases of the Aorta	M. Saric
Echocardiography in Heart Failure, Left Ventricular Assist Devices and Heart Transplant	K. Addetia

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;

In a recent survey

conducted by ASE, 97%

of the people who took

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 ASELearningHub.org to purchase now!



NEW! VIRTUAL EXPERIENCE

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		nline lecture recordings	5,			Pricing	Pricing
post test qui	estions, and Q&A	session with faculty.				Through July 31, 2021	Through July 31, 2021
Physician						\$1,045	\$1,240
Sonograph	ner/Allied Health	n/Veterinarian				\$915	\$1,030
Fellow						\$915	\$1,030
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*International re	gistration is available	for anyone who resides out	side of the United States.				
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