The American Society of Echocardiography is a member organization of professionals committed to excellence in cardiovascular ultrasound and its application to patient care through education, advocacy, research, innovation, and service.
## Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASE Accreditation</td>
<td>4</td>
</tr>
<tr>
<td>Echo Hawaii</td>
<td>4</td>
</tr>
<tr>
<td>State-of-the-Art Echocardiography</td>
<td>5</td>
</tr>
<tr>
<td>Interventional Echocardiography Symposium</td>
<td>5</td>
</tr>
<tr>
<td>ASCeXAM/ReASCE Review Course</td>
<td>6</td>
</tr>
<tr>
<td>Echo Florida</td>
<td>6</td>
</tr>
<tr>
<td>Echo ASE ASEAN</td>
<td>7</td>
</tr>
<tr>
<td>ASE Courses Mobile App</td>
<td>7</td>
</tr>
<tr>
<td>Scientific Sessions</td>
<td>8</td>
</tr>
<tr>
<td>ASE Online Learning and Education Products</td>
<td>9</td>
</tr>
<tr>
<td>ASEUniversity</td>
<td>9</td>
</tr>
<tr>
<td>Exam Review Products</td>
<td>16</td>
</tr>
<tr>
<td>ASE Guideline Products</td>
<td>18</td>
</tr>
<tr>
<td>JASE and Online Articles</td>
<td>20</td>
</tr>
<tr>
<td>On Demand Webinars</td>
<td>21</td>
</tr>
<tr>
<td>Smartphone / Tablet Applications</td>
<td>23</td>
</tr>
<tr>
<td>ASE Programs</td>
<td>24</td>
</tr>
<tr>
<td>How to Order a Product</td>
<td>24</td>
</tr>
<tr>
<td>Product Price Guide</td>
<td>25</td>
</tr>
<tr>
<td>Membership in ASE</td>
<td>26</td>
</tr>
</tbody>
</table>

*Cover artwork taken from Guidelines for Chamber Quantification of the Left Heart poster*
The American Society of Echocardiography (ASE) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians. 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 its programs. While a monetary or professional affiliation with a corporation does not necessarily influence a presentation, the ACCME’s Essential Areas, Criteria, and Policies require that any relationship that could possibly conflict with the educational value of a program be resolved prior to the educational session and disclosed to the audience. In accordance with these policies, ASE implements mechanisms prior to the planning and implementation of CME activities to identify and resolve conflicts of interest for all individuals in a position to control content.

**Registration**

**Main Conference**

ASE Member Physician: $775  
Nonmember Physician: $895

ASE Member Sonographer/Allied Health*: $650  
Nonmember Sonographer/Allied Health*: $750

ASE Member Resident/Fellow in Training: $555  
Nonmember Resident/Fellow in Training: $655

Register Early and Save! Rates subject to change.  
Please visit ASEcho.org/education for up-to-date pricing.

*Registrants in the Allied Health category include sonographers, nurses, and physician assistants.
31st Annual State-of-the-Art Echocardiography
February 17-20, 2018
Paradise Point Resort & Spa, San Diego, CA
Course Director: Bijoy Khandheria, MD, FASE

State-of-the-Art Echocardiography is a premier educational venue for echocardiography in clinical practice. More than 100 cases will be used to show strain imaging, 3D echocardiography, valve disease, and intervention. Expert faculty will lead a percutaneous workshop with an in-depth exploration of the use of echocardiographic imaging in valve disease. An echo quiz, coverage of the new guidelines, and case-based learning round out this superbly rated meeting that is filled to capacity year after year.

Participants should have practical knowledge of echocardiography in order to benefit fully from this program. The setting is ideal for participants to bring their families and add on some vacation time.

“Amazing conference. I loved the environment and felt like I learned a lot more than usual. Thank you!”

“Fantastic course! The learning lab was a truly unique and outstanding experience!”

Registration
Preconference Learning Lab
ASE Member: $450
Nonmember: $550

Main Conference
ASE Member Physician: $875
Nonmember Physician: $1,025

ASE Member Sonographer/Allied Health*/Fellow in Training: $675
Nonmember Sonographer/Allied Health*/Fellow in Training: $825

Register Early and Save! Rates subject to change.
Please visit ASEcho.org/education for up-to-date pricing.

* Registrants in the Allied Health category include sonographers, nurses, and physician assistants.

3rd Interventional Echocardiography Symposium
February 23, 2019
Loews Hotel Atlanta, Atlanta, GA

The Interventional Echocardiography Symposium is not only a fantastic new offering immediately following SCA Echo Week, but the content focuses on the role of echocardiography within the structural heart team.

This symposium features multidisciplinary experts in interventional echocardiography, interventional cardiology, cardiac anesthesiology, and cardiac surgery — all engaged in the heart valve team approach to structural heart disease. The program is composed of various educational formats including pertinent didactic lectures, interactive illustrations of procedural image guidance during cutting-edge catheter-based structural heart interventions, bio-skills demonstrations that correlate to clinical presentations, echocardiographic imaging and actual pathology, as well as simulations of heart valve team conferences where structural heart cases are being discussed.

“All presentations were outstanding. We are starting a program and this information was crucial.”

“AMAZING discussion! I always feel like I am watching a futuristic movie during these lectures as they are so state-of-the-art and at the forefront of what is happening in the cardiac/cardiac surgical/cardiac anesthesiology realms.”

Registration
ASE Member Physician: $350
Nonmember Physician: $400

ASE Member Sonographer/Allied Health*/Fellow in Training: $275
Nonmember Sonographer/Allied Health*/Fellow in Training: $300

* Registrants in the Allied Health category include sonographers, nurses, and physician assistants.
ASE has specifically designed the ASCeXAM/ReASCE Review Course as a preparatory course for the National Board of Echocardiography's ASCeXAM® and ReASCE® examinations. Lectures emphasize illustrative cases and as such will not be “canned talks” from other cardiovascular ultrasound courses.

The Review Course covers all aspects of cardiovascular ultrasound essential to these examinations, including physics, valvular heart disease, ischemic heart disease, congenital heart disease, and new technologies. The expert faculty uses case studies, lectures, and interactive sessions to help prepare the attendees for the ASCeXAM® or ReASCE®. Practice board exam questions after each session will facilitate faculty interaction and self-guided learning.

The ASCeXAM/ReASCE Review Course has been designed with the computer-based examination administration in mind. There is case-based learning and use of an audience response system to simulate a digital, multiple choice examination. CME from this course is “echo-specific” and therefore appropriate for IAC Accreditation and NBE education prerequisites.

The ASCeXAM/ReASCE Review Course gives attendees the unique opportunity to interact with and ask questions of the expert faculty. This course has a stellar preparation track record with 96% of people who attended this course and practiced with ASE’s simulation exam (see page 16) passing the ASCeXAM on the first try.

Registration
ASE Member Physician: $1,025
Nonmember Physician: $1,300

ASE Member Sonographer/Allied Health*: $925
Nonmember Sonographer/Allied Health*: $1,025

ASE Member Resident/Fellow in Training: $975
Nonmember Resident/Fellow in Training: $1,075

Register Early and Save! Rates subject to change. Please visit ASEcho.org/education for up-to-date pricing.

*Registrants in the Allied Health category include sonographers, nurses, and physician assistants.
The aim of the Echo ASE ASEAN Symposium is to provide cardiovascular practitioners with information on state-of-the-art echocardiography technology. This international meeting is led by expert faculty from the U.S. and the countries comprising the ASEAN region who are leaders in how echocardiography can be effectively applied to improve clinical care. The faculty will focus on the latest cardiovascular ultrasound technologies. Case-based learning approaches will be used to highlight new and established uses of echocardiography for diagnosis and guiding management in patients with a broad array of cardiovascular conditions.

Topics include: advanced assessment of systolic and diastolic function, 3D/4D imaging, contemporary approaches to valve disease, guidance of interventional procedures, contrast echocardiography, ischemic heart disease, pericardial disease, and echo in arrhythmic disorders.

Registration
Main Conference
ASE Member Physician: $350
Nonmember Physician: $400

ASE Member Allied Health*: $275
Nonmember Allied Health*: $300

ASE Member Fellow in Training: $275
Nonmember Fellow in Training: $300

Register Early and Save! Rates subject to change. Please visit ASEcho.org/education for up-to-date pricing.

*Registrants in the Allied Health category include sonographers, nurses, and physician assistants.
ASE's Scientific Sessions are the premier international conference devoted specifically to cardiovascular ultrasound in clinical patient care. It is a vital event for practicing echocardiographers and offers a full spectrum of educational events including symposia discussing novice, intermediate, and advanced techniques. Research featuring leading cardiovascular ultrasound experts is also highlighted. The program is an opportunity for all interested healthcare practitioners to explore contemporary issues and emerging developments in the field of cardiovascular ultrasound.

29th Annual Scientific Sessions  
June 22-26, 2018  
Gaylord Opryland Resort & Convention Center, Nashville, TN  
Program Chair: Sunil V. Mankad, MD, FASE

30th Annual Scientific Sessions  
June 21-25, 2019  
Oregon Convention Center, Portland, OR  
Program Chair: Marielle Scherrer-Crosbie, MD, PhD, FASE

31st Annual Scientific Sessions  
June 19-23, 2020  
Gaylord Rockies Resort & Convention Center, Denver, CO  
Program Chair: Theodore P. Abraham, MD, FASE

All levels of practitioners will find sessions that meet their needs, help improve their practice and benefit their professional growth. Participants are encouraged to actively participate in sessions and interact with available faculty. This is the meeting that everyone attends; you won’t want to miss the ample opportunities to socialize with your peers and luminaries in the cardiovascular ultrasound field.

Registration
ASE Member Physician: $795  
Nonmember Physician: $1,095  
ASE Member Sonographer/Allied Health*: $550  
Nonmember Sonographer/Allied Health*: $750  
ASE Member Resident/Fellow in Training: $395  
Nonmember Resident/Fellow in Training: $495

Register Early and Save! Rates subject to change. Please visit ASEScientificSessions.org for up-to-date pricing.

*Registrants in the Allied Health category include sonographers, nurses, and physician assistants.

“I thoroughly enjoyed this conference and learned so much.”
The American Society of Echocardiography’s education portfolio consists of online products, DVD products, workbooks, and reference materials. Online products can be found on ASEUniversity.org and physical products on ASEMarketPlace.com. Don’t forget to use your ASE member account to take advantage of member pricing.

ASE is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians. Participants may earn American Board of Internal Medicine (ABIM) MOC points and/or American Board of Pediatrics (ABP) MOC points equivalent to the amount of CME credits claimed for approved activities.

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 these credits may be 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.

All products with CME credits or MOC points are noted.

ASEUniversity

ASEUniversity.org is a medical education website featuring online, self-study learning opportunities for physicians, sonographers, and fellows. ASEUniversity maintains a selection of CME activities that are free with an active ASE membership. Available CME activities include a selection of one-hour recorded webinars as well as articles selected from the Journal of the American Society of Echocardiography (JASE). ASEUniversity posts at least four new webinars and up to 12 new articles each calendar year, highlighting relevant topics, practice issues, and new guidelines and standards for cardiovascular ultrasound.

These activities are designed for cardiovascular physicians and sonographers with a primary interest and knowledge base in the field of echocardiography. In addition, medical residents, researchers, clinicians, intensivists, cardiac anesthesiologists, critical care physicians, and other medical professionals, with a specific interest in cardiovascular ultrasound, will find these activities beneficial.

ASEUniversity Guideline-based Live Webinars

Available: ONLINE ONLY on ASEUniversity.org

Live, guideline-based webinars are also available to ASE members and nonmembers. These interactive events allow you to learn from the experts in the privacy of your home or office, while interacting and engaging with your fellow attendees. Webinars also provide the opportunity to ask the presenter questions to be answered during the live broadcast. Each webinar is approximately one hour in length. The majority of live webinars offer CME credits.

ASE Member: FREE    Nonmember: $25

ASE Annual Scientific Sessions Online Library

Available: ONLINE ONLY on ASEUniversity.org

Non-CME educational product.

ASE’s online library combines slides, video, and speaker audio to give you the feel of a live meeting anywhere you go.

This always expanding collection contains several core curriculums taught by leading experts in the field of echocardiography. Originally presented at national, scientific conferences, ASE’s online library provides you with year-round access to the audio and video materials. With mobile access, learning from the experts while sharing with colleagues and friends is now only a download away.

View all approved ASE Annual Scientific Sessions anywhere your computer or iOS device takes you! The ASE Annual Scientific Sessions Online Library includes: live audio recordings, PowerPoint presentations, and embedded video clips. Unlimited online access is available to all ASE Annual Scientific Sessions from 2009 through the latest conference. Purchase a single or multi-year subscription, full conference, or individual sessions.

Full Conference:

ASE Member: $299    Nonmember: $399

Individual session prices vary by subject matter.

ASE’s Comprehensive Echocardiography

Available: Textbook on ASEMarketPlace.com or Amazon.com

e-Book on ASEMarketPlace.com

Non-CME educational product.

Written by world experts from the American Society of Echocardiography, Comprehensive Echocardiography is a unique multimedia resource with text, case studies, and online components covering the latest uses of echocardiography, including the most recent 2D and 3D advances. This 2nd edition, with its new title, has over 200 chapters that include essential material in a succinct format. It has everything you need to assess cardiac anatomy and function and obtain clinically useful, noninvasive information for more accurate diagnosis and evaluation of heart disease.

Included with the book is an online version and an outstanding online library of slides and videos of case presentations that correspond to crisp, full-color images, allowing you to view dynamic echocardiographic clips of various cardiac pathologies.

ASE Member: $199    Nonmember: $229
ASE Online Learning and Education Products

**Best of ASE Series**

Available: DVD on ASEMartPlace.com or Amazon.com

ONLINE on ASEUniversity.org

*Non-CME educational product.*

Enhance your understanding of echocardiography with this compilation of lectures from ASE courses.

Broken down into multiple volumes, the current series includes:

- **Volume 1:** Introduction to Diastology 2nd Edition
- **Volume 2:** Basics of Strain Imaging 2nd Edition
- **Volume 3:** A Practical Guide to 3D Echocardiography 2nd Edition
- **Volume 4:** Basic Physics of Ultrasound, Knobology, and Echocardiographic Artifacts
- **Volume 5:** Contrast Echocardiography
- **Volume 6:** Echocardiographic Imaging of Native and Prosthetic Valves
- **Volume 7:** Stress Echocardiography
- **Volume 8:** Transesophageal Echocardiography
- **Volume 9:** Perioperative Echocardiography
- **Volume 10:** Vascular Echocardiography

**Price per volume:**

- **ASE Member:** $75
- **Nonmember:** $95

**Bundle Pricing (includes all DVDs)**

- **Member:** $525
- **Nonmember:** $625

---

**Clinical Cases in Echocardiography:**

**Focus on Congenital Heart Disease**

*Chair: Richard A. Humes, MD, FASE*

Available: ONLINE ONLY on ASEUniversity.org

**Designated by ASE for 5 AMA PRA Category 1 Credits™.**

**Accepted by the ABIM for 11 MOC points towards the Medical Knowledge Self-assessment requirements.**

**Accepted by the ABP for 10 MOC points towards the Lifelong Learning Self-assessment requirements.**

This activity provides online cases reviewing the role of echocardiography in diagnosis and follow-up of a wide variety of different congenital heart diseases and defects.

**Topics include, but are not limited to:**

- Atria and Ventricular Septal Defects
- Coarctation of the Aorta
- Ebstein’s Anomaly
- Patent Foramen Ovale
- Patent Ductus
- Arteriosus Valve Defects
- Pulmonary Artery Stenosis
- Tetralogy of Fallot
- Transposition of the Great Arteries

Cases include symptomatic and asymptomatic diagnosis and treatment, as well as adult patients with repaired or palliated CHD.

**1 User License**

- **ASE Member:** $175
- **Nonmember:** $250

**5 User License**

- **ASE Member:** $375
- **Nonmember:** $475

**10 User License**

- **ASE Member:** $600
- **Nonmember:** $700

---

**Case-based Learning:**

**Focus on Patient Safety**

*Chair: James D. Thomas, MD, FASE*

Available: ONLINE ONLY on ASEUniversity.org

**Designated by ASE for 2.5 AMA PRA Category 1 Credits™.**

**Accepted by the ABIM for 9 MOC points towards Medical Knowledge Self-assessment requirements.**

Focus on Patient Safety is an entirely online, case-based program covering both clinical and safety issues.

**Topics include, but are not limited to:**

- Antibiotic Prophylaxis
- Stress Echocardiography
- Bioeffects of Ultrasound
- TAVR
- Contrast
- TEE

**1 User License**

- **ASE Member:** $175
- **Nonmember:** $250

**5 User License**

- ** ASE Member:** $375
- **Nonmember:** $475

**10 User License**

- **ASE Member:** $600
- **Nonmember:** $700
Contrast-Enhanced Echocardiography Lecture Series

Chair: Jonathan Lindner, MD, FASE
Available: ONLINE on ASEUniversity.org
Designated by ASE for 6 AMA PRA Category 1 Credits™.
Accepted by ABIM for 6 MOC points towards Medical Knowledge Self-assessment requirements.

This series contains lectures by ASE subject matter experts. Each lecture includes both didactic and case-based teaching methods. The lectures are ordered to build upon the concepts from the previous lectures. Participants are provided with questions testing knowledge between lectures. This activity is designed for all cardiovascular physicians, cardiac sonographers, and nurses with a primary interest and knowledge base in the field of echocardiography and a specific interest in contrast echocardiography.

The following topic areas are included in this series:

- Contrast Basics
- Policy and Procedures of Contrast
- Ventricular Cavity Opacification
- Myocardial Contrast Perfusion
- Improving Diagnostic Value
- Knobology

This series is made possible through an unrestricted educational grant from GE Healthcare.

ASE Member: Free Nonmember: Free

Essentials for Proficiency in Basic Cardiovascular Ultrasound

Chair: Susan E. Wiegers, MD, FASE
Available: DVD with Workbook on ASEMarketPlace.com or Amazon.com ONLINE with Downloadable Workbook on ASEUniversity.org
Designated by ASE for 13.5 AMA PRA Category 1 Credits™.
Accepted by ABIM for 13.5 MOC points towards Medical Knowledge Self-assessment requirements

Designed by top physicians and professors of cardiovascular medicine, this comprehensive review of basic echocardiography has been created as a teaching tool for echocardiography fellows and others interested in learning about the use of cardiovascular ultrasound in clinical practice. This set includes 15 lectures on a variety of topics, beginning with the normal TTE and TEE examinations, and then covering the mitral and aortic valves in-depth, left and right heart function, physics, prosthetic valves, and more. Each lecture has been carefully crafted to include a thorough review of practical concepts, references to ASE’s Guidelines and Standards, video examples of normal and abnormal echocardiograms, and case studies designed to provide real-word examples. A workbook correlates with the lectures to provide a guide for each presentation.

Lectures include:

- The Normal Transthoracic Echocardiogram
- Transesophageal Echocardiography
- Introduction to Physics of Echocardiography
- Echo Assessment of the Left Ventricle
- Mitral Valve 1: Normal Anatomy & Regurgitation
- Mitral Valve 2: Mitral Stenosis
- Aortic Valve 1: Normal Valve and Aortic Stenosis
- Aortic Valve 2: Regurgitation, Endocarditis
- Cardiomyopathies
- Echocardiography of Endocarditis
- The Right Heart
- Pericardial Disease
- Cardiac Masses and Tumors
- Coronary Artery Disease and Stress Echo
- Echocardiographic Assessment of Prosthetic Valves

ASE Member: $150 Nonmember: $250
Focused Cardiac Ultrasound: Fundamental Principles of Acquisition & Interpretation

Chair: Kirk T. Spencer, MD, FASE

Available: DVD ONLY on ASEMarketPlace.com or Amazon.com

Non-CME educational product.

This state-of-the-art DVD is an instructional video to be used for self-guided learning and professional lectures. The DVD features several interactive sections for flexible presentation, including an easy to navigate DVD menu, overview of relevant cardiac anatomy, presentation of transducer positions, imaging examples of a wide variety of pathologies, case presentations with discussions, and an interpretation practice section designed to gauge levels of familiarity with the materials presented.

Topics include:

Section 1: Heart Anatomy
- Heart and Ribs
- Axis of the Heart
- Planes of the Heart
- Chambers
- Valves and Annuli
- Blood Flow

Section 2: Focused Cardiac Ultrasound Assessment
- Left Parasternal Long Axis (PLAX)
- Left Parasternal Short Axis (PSAX)
- Apical
- Subcostal
- Lung

Section 3: Pathologies, featuring 20 different examples, including:
- Pericardial Effusion
- RV & LV Systolic Dysfunction
- Severely Calcified AV
- Pleural Effusion
- LV Hypertrophy
- Pulmonary Edema
- Dilated Aortic Root
- IVC Collapse

Section 4: Case Studies

Section 5: Practice Interpretations

A comprehensive lecture series on core types of congenital heart disease. Comprised of 12 lesions, you will gain an in-depth understanding on the use of echocardiography/pathology correlations and echocardiography/surgery correlations.

Lesion 1: Pulmonary Venous Anomalies
Lesion 2: Atrial Septal Defects
Lesion 3: Tricuspid Valve Pathology
Lesion 4: Common Atrioventricular Canal
Lesion 5: Tetralogy of Fallot
Lesion 6: Double Outlet Right Ventricle
Lesion 7: Congenitally Corrected Transposition of the Great Arteries
Lesion 8: Hypoplastic Left Heart Syndrome
Lesion 9: Pulmonary Atresia with Intact Ventricular Septum
Lesion 10: Aortic Coarctation and Interrupted Aortic Arch
Lesion 11: Truncus Arteriosus
Lesion 12: D-Transposition of the Great Arteries

ASE Member: $175 Nonmember: $250

Pediatric and Congenital Heart Disease Lecture Series

Chair: Timothy C. Slesnick, MD, FASE

Available: ONLINE ONLY on ASEUniversity.org

Designated by ASE for 15.75 AMA PRA Category 1 Credits™.

Accepted by the ABP for 20 MOC points towards the Lifelong Learning Self-Assessment requirements.

ASE Member: $99 Nonmember: $150

How to Perform a TTE Study: Transducer Position and Anatomy

Chair: Roberto M. Lang, MD, FASE

Available: DVD ONLY on ASEMarketPlace.com or Amazon.com

Non-CME educational product.

This instructional video can be used for professional lectures and offers an interactive section for flexible presentations. The video includes an overview of relevant cardiac anatomy, a step-by-step presentation of all transducer positions, and the sequential transducer movements to acquire standard echo images needed to complete a transthoracic echocardiographic study.

This product content consists of two sections as follows:

Section 1: Heart Anatomy
- 1.1 Heart and Ribs Echocardiography
- 1.2 Axis of the Heart
- 1.3 Planes of the Heart (PLAX)
- 1.4 Chambers
- 1.5 Valves and Annuli (PSAX)
- 1.6 Blood Flow

Section 2: Basic Transthoracic
- 2.1 Left Parasternal Long
- 2.2 Left Parasternal Short
- 2.3 Apical
- 2.4 Subcostal
- 2.5 Suprasternal

ASE Member: $150 Nonmember: $250
Proper Echocardiographic Measurements: How and Why

Chair: Andrew Pellett, PhD, RCS, RDCS, FASE

Available: DVD on ASEMarketPlace.com or Amazon.com
ONLINE on ASEUniversity.org

Designated by ASE for 5 AMA PRA Category 1 Credits™.

This guideline-based product focuses on the methods used to obtain measurements, to include data and explanations to show why they are appropriate. This educational tool comprises a combination of didactic lectures and clinical questions, and can be used as a review for current sonographers, as well as a training tool for new or early career sonographers and others who are interested in the practice of cardiovascular ultrasound.

Topics include:
• 2D vs. M-mode
• IVC Diameter Right Heart Measurements
• Mitral Valve: Stenosis and Regurgitation
• LV Linear Measurements: 2D and M-mode
• Velocity Measurements: Using Spectral Doppler Ultrasound Correctly
• Tricuspid Valve: Normal, Stenosis, Regurgitation
• Diastology: E, A, DT
• Basal Cardiac Measurements (Aortic annulus and root and LA diameter)
• LV Volume
• Diastology: Annular Velocities
• Aortic Valve: Normal, Stenosis, Regurgitation
• LA Volume
• Diastology: Pulmonary Vein Velocities
• LVOT/Aortic Velocities: HOCM
• Pulmonic Valve: Normal, Stenosis, Regurgitation

1 User License
ASE Member: $175
Nonmember: $250

5 User License
ASE Member: $375
Nonmember: $475

10 User License
ASE Member: $600
Nonmember: $700

Self-Study Program III

Available: DVD ONLY on ASEMarketPlace.com or Amazon.com

Designated by ASE for 15.5 AMA PRA Category 1 Credits™.

Accepted by ABIM for 15.5 MOC points towards Medical Knowledge Self-assessment requirements.

This self-study program contains 15 presentations that you can move through at your own pace. It is designed for adult and pediatric cardiologists, cardiovascular surgeons, cardiovascular anesthesiologists, fellows in training, cardiovascular sonographers, cardiovascular nurse specialists, internists, intensivists, and emergency physicians with special interest in clinical cardiology and echocardiography.

Topics include:
• Duplex Imaging in Carotid Disease Management
• Symptom-Based Echocardiography
• Recommendations for the Use of Echocardiography in New Transcatheter Interventions for Valvular Heart Disease
• Practical Review of Guidelines: Aortic Stenosis and Aortic Regurgitation
• Speckle Tracking for the Sonographer
• Contrast Echocardiography
• 3D Echocardiography – Current & Future Applications
• Cardiac Sources of Emboli
• Performing a Comprehensive Transesophageal Echocardiography Examination
• Clinical Recommendations for Multimodality Cardiovascular Imaging of Patients with Pericardial Disease
• Assessment of Native and Prosthetic Valvular Heart Disease: A Case-based Review of the ASE Guidelines
• Echocardiography in Mechanical Support Devices
• Multimodality Imaging Guidelines for Patients with Repaired Tetralogy of Fallot
• The Adult with Undiagnosed Congenital Heart Disease: Echocardiographic Evaluation
• Ischemic Stroke and TIA Nonvalvular Atrial Fibrillation Assessment by Cardiovascular Imaging

1 User License
ASE Member: $175
Nonmember: $250

5 User License
ASE Member: $375
Nonmember: $475

10 User License
ASE Member: $600
Nonmember: $700
Self-Study Program IV
Available: DVD ONLY on ASEMarketPlace.com or Amazon.com

Designated by ASE for 16 AMA PRA Category 1 Credits™.
Accepted by ABIM for 16 MOC points towards Medical Knowledge Self-assessment requirements.

This self-study program contains 16 presentations on the latest material on echocardiography that you can move through at your own pace. This program is designed for adult and pediatric cardiologists, cardiovascular surgeons, cardiovascular anesthesiologists, fellows in training, cardiovascular sonographers, cardiovascular nurse specialists, internists, intensivists, and emergency physicians with special interest in clinical cardiology and echocardiography.

Topics include:
- Diastolic Function Assessment
- Chamber Quantification
- Valvular Regurgitation
- Use of Microbubble Contrast Agents
- Structural Heart Disease
- Stress Echocardiography
- Left Ventricular Assist Devices

1 User License   5 User License   10 User License
ASE Member: $175  ASE Member: $375  ASE Member: $600
Nonmember: $250   Nonmember: $475   Nonmember: $700

Self-Study Program: Pediatric and Congenital Heart Disease
Available: DVD ONLY on ASEMarketPlace.com or Amazon.com

Designated by ASE for 12 AMA PRA Category 1 Credits™.
Accepted by ABIM for 12 MOC points towards Medical Knowledge Self-assessment requirements.

Accepted by ABP for 12 MOC points towards Medical Knowledge Self-assessment requirements.

This DVD provides a comprehensive review of the use of echocardiography in the diagnosis and follow-up of a variety of congenital heart diseases. Imaging from basic to comprehensive echocardiographic assessment of congenital heart disease is discussed. The DVD provides a review of anatomy and physiology including identifying and optimizing echocardiographic views for assessing and characterizing variations of congenital heart disease. It also includes a review of the different surgical approaches used to repair and palliate lesions. Additional practical aspects are covered including common imaging pitfalls, the echocardiographic findings used to determine the need for urgent intervention, multimodality imaging and 3D echocardiography for pre-surgical planning, as well as imaging for short- and long-term follow up of both repaired and unrepaired lesions. This DVD is suitable for sonographers, fellows, cardiologists, and physicians with limited background in congenital heart disease as well as those with significant congenital cardiac expertise.

Topics include, but are not limited to:
- Atrial septal defect
- Common Atrioventricular Canal
- Tricuspid regurgitation
- Tetralogy of Fallot
- Transposition of the Great Arteries
- Truncus Arteriosus
- Pulmonary Venous Anomalies
- Pediatric Left Ventricular Non-Compaction

1 User License   5 User License   10 User License
ASE Member: $175  ASE Member: $375  ASE Member: $600
Nonmember: $250   Nonmember: $475   Nonmember: $700

Transesophageal Echocardiography in Perioperative Care
Chair: Madhav Swaminathan, MD, FASE

Available: DVD on ASEMarketPlace.com or Amazon.com
ONLINE on ASEUniversity.org

Designated by ASE for 5 AMA PRA Category 1 Credits™.
Accepted by ABIM for 5 MOC points towards Medical Knowledge Self-assessment requirements.

Accepted by ABA for 5 MOC points towards Medical Knowledge Self-assessment requirements.

This is a case-based educational tool for anesthesiologists, cardiologists, fellows, surgeons, and other interested individuals currently performing and/or interpreting TEE for intraoperative procedures. Case progression is provided to showcase images before, during, and after the procedure.

Topics include, but are not limited to:
- LV Function
- RV Function
- Diseases of the Aorta
- Aortic Valve and Root
- LVOT (Including HCM)
- Mitral Valve Stenosis
- Mitral Valve Regurgitation
- Tricuspid Valve
- Atrial Septum
- Other Intraoperative Uses Outside of Monitoring and Emergency Diagnosis

1 User License   5 User License   10 User License
ASE Member: $175  ASE Member: $375  ASE Member: $600
Nonmember: $250   Nonmember: $475   Nonmember: $700
ASE and Ke Labs have collaborated to co-develop the Echo Test and Teach Application. Designed through the expert guidance of Harvey Feigenbaum, MD, FASE, and founder of ASE, this tool was produced to ensure quality and consistency of cardiac ultrasound image review, as well as to educate users on interesting cases and new techniques.

**Benefits and Features**

- Enhances patient care by reducing variability
- Facilitates echo lab standards
- Offers a hands-on, real-world training experience without being tied to an imaging devices
- Cloud-based, so users have access anytime and anywhere
- Contains case studies covering multiple areas and new cases are continually added
- Includes analytic tools to enable administrators to analyze both individual and collective results
- Designated by ASE for up to 10 AMA PRA Category 1 Credits™ per year.

For more information visit: [ASEcho.org/echo-test-and-teach](http://ASEcho.org/echo-test-and-teach)

---

**Transesophageal Echocardiography in Structural Heart Disease**

*Chair: G. Burkhard Mackensen, MD, PhD, FASE*

Available: DVD on ASEMarketPlace.com or Amazon.com

**Designated by ASE for 15 AMA PRA Category 1 Credits™.**

**Accepted by ABIM for 15 MOC points towards Medical Knowledge Self-assessment requirements.**

**Accepted by ABA for 15 MOCA points towards Medical Knowledge Self-assessment requirements.**

This case-based product highlights the specifics of procedural imaging in the structural heart disease area, namely exact procedure-specific guidance, procedural communication using an unambiguous procedure-specific language, familiarity with all relevant echocardiographic modalities and when to use them most effectively. The product highlights experts in this field showcasing some of their best successes and failures, along with a discussion of best practices and solutions.

**Topics include, but are not limited to:**

- TAVR
- Transcatheter Tricuspid Valve Interventions
- Mitral Repair
- LAA Closure
- Paravalvular Leak Closure
- VSD Closure
- Valve-in-Valve
- ASD and PFO Closure
- Adult Congenital Interventions

1 User License  
ASE Member: $175  
Nonmember: $250

5 User License  
ASE Member: $375  
Nonmember: $475

10 User License  
ASE Member: $600  
Nonmember: $700

ASE Member:  $175  
Nonmember:  $250

ASE Member:  $375  
Nonmember:  $475

ASE Member:  $600  
Nonmember:  $700

ASE1708_EdCat_V15_v8.indd   15  
5/25/17   1:18 PM
Exam Review Products

Advanced Cardiac Sonographer Registry Review Guide

Chairs: Margaret Park, BS, ACS, RDCS, RVT, FASE; Deborah Agler, ACS, RDCS, FASE
Available: DVD with Workbook on ASEMarketPlace.com or Amazon.com ONLINE with Downloadable Workbook on ASEUniversity.org
Non-CME educational product.
Designed by accomplished expert sonographers and ACS imaging specialists, this comprehensive review of basic and advanced echocardiography has been created as a review guide and teaching tool for sonographers preparing to sit for the Advanced Cardiac Sonographer Registry Exam.
This video and workbook set includes 20 modules on a variety of topics from IAC standards and guidelines for adult echocardiography accreditation and quality assurance, to an in-depth review of cardiogenic shock and emergency echo. Other areas include stress echo, congenital disease, chemotherapy echocardiography, left and right heart function, prosthetic valves, research methods and biostatistics, interventional echocardiography, and the latest technological advances. Each lecture has been carefully designed to include a thorough review and clinical application through real video case study presentations.
A question and answer section, in the workbook, correlates with each lecture. The workbook also includes two 180-question mock exams designed to test your overall knowledge and skillset in preparing you to take the ACS Registry Exam with success.
Echocardiography fellows, nurses, researchers, and others interested in an in-depth review of echocardiography and echo lab quality assurance best practices would also find this product valuable.

ASE Member: $150   Nonmember: $250

Cardiovascular Sonographer Registry Review Guide 2nd Edition

Chairs: Kymberly Glyde, RDCS, FASE; Kim Pace, BS, RDCS, FASE
Available: DVD with Workbook on ASEMarketPlace.com or Amazon.com ONLINE with Downloadable Workbook on ASEUniversity.org
Non-CME educational product.
The 2nd Edition Cardiovascular Sonographer Registry Review Guide is a comprehensive study tool for both the American Registry for Diagnostic Medical Sonography (ARDMS) adult echocardiography and the Cardiovascular Credentialing International (CCI) cardiovascular ultrasound registry examinations. Designed by top sonographers and educators, the DVD and workbook set provides a thorough review of topics associated with adult echocardiography and cardiovascular physics, including illustrative case studies and practice exam questions to assist in passing the credentialing examinations. This study tool correlates with the ASE Guidelines and Standards related to the practice of echocardiography.

Lectures cover the following topics:
• Intro to Echo
• Physics
• The Left Side
• Cardiomyopathies and Pericardial Disease
• Mitral Valve Disease
• Prosthetic Valve Disease
• Aortic Valve Disease
• Aortic Disease
• Right Side
• Congenital Heart Disease
• Cardiac Tumors

ASE Member: $150   Nonmember: $250
Exam Review Products

**ASCeXAM/ReASCE Review Course Online Library**

Available: ONLINE ONLY on ASEUniversity.org

*Non-CME educational product.*

These lectures were presented at ASE’s ASCeXAM /ReASCE Review Course by expert faculty and cover all aspects of cardiovascular ultrasound essential to the board examinations. The online lecture format features synchronized slides; including embedded videos and the accompanying audio. You will feel like you are sitting in the class. This product is perfect for individuals looking to access the content anytime, anywhere.

This 28-hour, online course set will help you prepare for the NBE exams.

**ASE Member:** $375  **Nonmember:** $525

---

**ASCeXAM/ReASCE Online Practice Exam Simulation**

Available: ONLINE ONLY on ASEUniversity.org

*Non-CME educational product.*

Designed to prepare physicians for the National Board of Echocardiography’s ASCeXAM or ReASCE certification examinations, this 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
- M-mode
- Two-Dimensional
- Doppler Echocardiography
- Latest Applications in Echocardiography

In addition to objective-based questions, case studies are included to evaluate your knowledge of the field. This product allows you to take two simulated exams of 150 questions and be graded up to six times. You have 18 weeks of access to the simulation exam.

**ASE Member:** $199  **Nonmember:** $250
ASE Guideline Products

**ASE Guideline Reference Book**

Available: Binder with inserts on ASEMarketPlace.com or Amazon.com

**e-Book on ASEUniversity.org**

*Non-CME educational product.*


The three-ring binder is designed to accommodate new inserts as they are published. Each title can be included in the entire book or purchased as an individual inserts. Perfect for use in the reading room. This book is a best-seller!

The online e-Book comes in a convenient format for quick reference and is designed to immediately include new inserts as they are published.

**The Reference Book consists of the following graphic illustrations:**

- Aortic Regurgitation (JASE, April 2017)
- Aortic Valve Stenosis (JASE, April 2017)
- Appropriate Use Criteria for Echocardiography (JASE, March 2011)
- Chamber Quantification of the Left Heart (JASE, January 2015)
- Chamber Quantification of the Right Heart (JASE, January 2015)
- Image Acquisition and Display Using Three-Dimensional Echocardiography (JASE, January 2012)
- Left Ventricular Diastolic Function (JASE, April 2016)
- Mitral Regurgitation (JASE, April 2017)
- Multimodality Cardiovascular Imaging of Patients with Hypertrophic Cardiomyopathy (JASE, May 2011)
- Multimodality Imaging of Pericardial Disease (JASE, September 2013)
- Performing a Comprehensive Transesophageal Echocardiographic Exam (JASE, September 2013)
- Performing Multiplane Transesophageal Echocardiography (JASE, 1999)
- Prosthetic Valves with Echocardiography and Doppler Ultrasound (JASE, September 2009)
- Quantification Methods During the Performance of Pediatric Echocardiography (JASE, May 2010)
- Stress Echocardiography (JASE, September 2007)
- Tricuspid and Pulmonic Regurgitation (JASE, April 2017)

**Online e-Book**

*ASE Member: $75 annually  Nonmember: $100 annually*

**Binder with Inserts**

*ASE Member: $285  Nonmember: $385*

**Individual Inserts**

*ASE Member: $40  Nonmember: $75*

**Individual ASE Pocket Guidelines**

Available: ASEMarketPlace.com or Amazon.com

These pocket-sized flipbooks, of charts from ASE guidelines and standards for cardiovascular ultrasound, were designed to be carried in lab coats and scrub pockets and used as quick reference guides for measurements.

- Aortic Regurgitation (JASE, April 2017)
- Aortic Valve Stenosis (JASE, April 2017)
- Chamber Quantification of the Left Heart (JASE, January 2015)
- Chamber Quantification of the Right Heart (JASE, January 2015)
- Image Acquisition and Display Using Three-Dimensional Echocardiography (JASE, January 2012)
- Left Ventricular Diastolic Function (JASE, April 2016)
- Mitral Regurgitation (JASE, April 2017)
- Prosthetic Valves with Echocardiography and Doppler Ultrasound (JASE, September 2009)
- Tricuspid and Pulmonic Regurgitation (JASE, April 2017)

**ASE Member: $10  Nonmember: $15**

**Bulk Rate: $8 each for 100 or more**

**The ASE Pocket Guideline Bundle includes the nine ASE Pocket Guidelines listed above.**

**ASE Member: $75  Nonmember: $100**

**Bulk Rate: $63 each for 100 or more**
ASE Guideline Products

**Guideline Posters**

ASE’s poster series is a visual representation of the guidelines and standards set by ASE. The designs are pleasing to the eye and suited for display in patient areas and clinics. A great addition to your lab, these 24” x 30” posters will serve as a valuable resource for both physicians and technicians.

**Individual Posters**

- *Aortic Regurgitation (JASE, April 2017)*
- *Aortic Valve Stenosis (JASE, April 2017)*
- Chamber Quantification of the Left Heart (JASE, January 2015)
- Chamber Quantification of the Right Heart (JASE, January 2015)
- Consensus Statement on Clinical Applications of Ultrasonic Contrast Agents in Echocardiography (JASE, November 2008)
- Image Acquisition and Display Using Three-Dimensional Echocardiography (JASE, January 2012)
- *Left Ventricular Diastolic Function (JASE, April 2016)*
- *Mitral Regurgitation (JASE, April 2017)*
- Multimodality Cardiovascular Imaging of Patients with Hypertrophic Cardiomyopathy (JASE, May 2011)
- Multimodality Imaging of Pericardial Disease (JASE, September 2013)
- Noninvasive Vascular Laboratory Testing (JASE, August 2006)
- Pediatric Echocardiography (JASE, December 2006)
- Performing a Comprehensive Transesophageal Echocardiographic Exam (JASE, September 2013)*
- Performing Multiplane Transesophageal Echocardiography (JASE, 1999)
- Prosthetic Valves with Echocardiography and Doppler Ultrasound (JASE, September 2009)
- Quantification Methods During the Performance of Pediatric Echocardiography (JASE, May 2010)
- Stress Echocardiography (JASE, September 2007)
- Tricuspid and Pulmonic Regurgitation (JASE, April 2017)

**ASE Member:** $20  **Nonmember:** $30

**Guideline Poster Set**

Set consisting of 18 full-size ASE Guideline Posters

**ASE Member:** $280  **Nonmember:** $380

**Guideline Poster Flip Chart**

Tabletop flip chart consisting of 17 ASE Guidelines Posters reduced to 11” x 14-3/4”, laminated and presented in a vinyl heat-sealed binder. *not included in flip chart

**ASE Member:** $250  **Nonmember:** $300

Individual Flip Chart Posters:  **ASE Member:** $20  **Nonmember:** $30

**Guideline Lab Bundle**

With ASE’s Guideline Lab Bundle, you can stock your lab with excellent products at a substantial savings. Included in the bundle is one Guideline Reference Book, one Guideline Poster Flipchart, and ten complete sets of Pocket Guides. Save over $250 off individual pricing.

**ASE Member:** $995  **Nonmember:** $1,295
Journal of the American Society of Echocardiography (JASE)

JASE features the very latest clinical, scientific, legal, and economic information regarding the use of cardiac ultrasound. The Journal's original, peer-reviewed articles cover conventional procedures as well as newer clinical techniques, such as transesophageal echocardiography, intraoperative echocardiography, and intravascular ultrasound. The Journal, an official publication of the American Society of Echocardiography, has an Impact Factor of 4.254. Your subscription also includes online access to JASE.

OnlineJASE.com
ASE Member: FREE
Nonmember: $378 per year (U.S.)/$482 per year (international)

CME for JASE Articles
AVAILABLE: ONLINE ONLY on ASEUniversity.org

New postings are made frequently. Visit the website for all the latest additions.

CME credits and MOC points will be listed online where appropriate. See specific article for more information.

Title
Expert Review on the Prognostic Role of Echocardiography after Acute Myocardial Infarction
Fact or Artifact in Two-Dimensional Echocardiography: Avoiding Misdiagnoses and Missed Diagnosis
Impact of Diastolic Function Parameters on the Risk for Left Atrial Appendage Thrombus in Patients with Non Valvular Atrial Fibrillation
Lipomatous Atrial Septal Hypertrophy: A Review of Its Anatomy, Pathophysiology, Multimodality Imaging, and Relevance to Percutaneous Interventions
Mechanical Dispersion by Strain Echocardiography: A Novel Tool to Diagnose Hypertrophic Cardiomyopathy in Athletes
Multimodality Assessment of Ascending Aortic Diameters: Comparison of Different Measurement Methods
Multimodality Imaging Guidelines of Patients with Transposition of the Great Arteries
Pulmonary Artery Acceleration Time Provides a Reliable Estimate of Invasive Pulmonary Hemodynamics in Children
Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography: 2016 Update
Recommendations for Noninvasive Evaluation of Native Valvular Regurgitation: A Report from the American Society of Echocardiography Developed in Collaboration with the Society for Cardiovascular Magnetic Resonance
The Clinical Use of Stress Echocardiography in Non-Ischemic Heart Disease: Recommendations from the European Association of Cardiovascular Imaging and the American Society of Echocardiography
The Effect of Image Review before Patient Discharge on Study Completeness and Sonographer Job Satisfaction in a Pediatric Echocardiographic Laboratory
The Significance of the Interleaflet Triangles in Determining the Morphology of Congenitally Abnormal Aortic Valves: Implications for Noninvasive Imaging and Surgical Management
Three-dimensional Echocardiography in Congenital Heart Disease: An Expert Consensus Document from the European Association of Cardiovascular Imaging and the American Society of Echocardiography

ASE Member: FREE
Nonmember: $25
On Demand Webinars

Guideline Reviews

- ASE Guidelines for the Cardiac Sonographer in the Performance of Contrast Echocardiography
  Thomas R. Porter, MD, FASE; Theodore F. Hubbard, MD
- ASE Guideline in Review: Multimodality Imaging Guidelines for Patients with Repaired Tetralogy of Fallot
  Anne Marie Valente, MD, FASE; Tal Geva, MD, FASE
- Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults
  Roberto Lang, MD, FASE
- Recommendations for Noninvasive Evaluation of Native Valvular Regurgitation: A Report from the American Society of Echocardiography Developed in Collaboration with the Society for Cardiovascular Magnetic Resonance
  William A. Zoghbi, MD, FASE
- The Clinical Use of Stress Echocardiography in Non-Ischemic Heart Disease
  Patricia A. Pellikka, MD, FASE

Live Webinar Recordings

- Answers to Your LV Diastolic Questions — May 2017
  Sherif Nagueh, MD, FASE and Deborah Agler, ACS, RDQS, FASE
- Recommendation of Non-Invasive Evaluation of Left Ventricular Regurgitation - April 2017
  William Zoghbi, MD, FASE
- The Clinical Use of Stress Echocardiography in Non-Ischemic Heart Disease - April 2017
  Patricia Pellikka, MD, FASE
- 3D Echocardiography in Congenital Heart Disease – January 2017
  Girish Shirali, MD
  Judy Rosenbloom RDQS, FASE; Diane Millman JD
- Guidelines for the Use of Echocardiography in the Evaluation of a Cardiac Source of Embolism - Feb 2016
  Muhamed Saric, MD, PhD, FASE
- MD Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography - May 2016
  Sherif Nagueh, MD, FASE

Live Webinar Recordings continued

- Multimodality Imaging Guidelines of Patients with Transposition of the Great Arteries - September 2016
  Meryl Cohen, MD, FASE
- Echo Test and Teach – Moving from Quantity to Quality - October 2016
  Harvey Feigenbaum, MD, FASE
- Multimodality Imaging Guidelines of Patients with Transposition of the Great Arteries – September 2016
  Meryl Cohen, MD, FASE
- MD Recommendations for the Evaluation of Left Ventricular Diastolic Function by Echocardiography – May 2016
  Sherif Nagueh, MD, FASE
  Muhamed Saric, MD, PhD, FASE
  Frank Silvestry MD, FASE
- Echocardiography in the Management of Patients with Left Ventricular Assist Devices – August 2015
  Raymond Stainback MD, FASE
- Multimodality Imaging of Diseases of the Thoracic Aorta in Adults – April 2015
  Steven Goldstein, MD, FASE
- Guidelines for the Use of Echocardiography as a Monitor for Therapeutic Intervention in Adults – March 2015
  Thomas Porter, MD, FASE
On Demand Webinars

- Assessment of Pulmonary Edema and Ultrasound
  Vicki Noble, MD

- Contrast Basics: The Bubbles and How We Image Them
  Jonathan Lindner, MD, FASE

- Contrast Beyond Endocardial Border Definition - Improving Our Diagnostic Value
  Sharon Mulvagh MD, FASE

- Diastolic Function: Dealing with Discrepancies in Data
  Miguel Quiñones, MD, FASE

- Echocardiography in Mechanical Support Devices
  James Kirkpatrick, MD, FASE

- Emergency Echocardiography for the ICU Setting
  Colin Grissom, MD, FASE

- Ischemic Stroke and TIA Nonvalvular Atrial Fibrillation - Assessment by Cardiovascular Imaging
  Marcus Stoddard, MD, FASE

- Knobology - What You Need to Know to Make the Best Pictures
  G. Monet Strachan RDCS, FASE

- Multimodality Imaging Evaluation of Adult Patients During and After Cancer Therapy
  Juan Carlos Plana, MD, FASE

- Myocardial Contrast Echo for Perfusion - How and Why?
  Thomas Porter MD, FASE

- Pediatric Left Ventricular Noncompaction
  Meryl Cohen, MD, FASE

- Policy and Procedures for Successful Implementation of Contrast in the Echo Lab
  Joan Olson BS, RDCS, RVT, FASE

- Rescue Echocardiography - What Every Exam Should Entail
  Nicholas Markin, MD, FASE

- Role of Imaging in Assessment of Pathoanatomy of ASD/VSDs and Mitral Valve Disease - July 2016
  Douglas Shook, MD, FASE

- Stress Echo and Valvular Disease: Use and Protocols
  Patricia Pellikka MD, FASE

- Technology for Structural Heart Interventions: The Future
  Stephen Little, MD, FASE

- The Adult with Undiagnosed Congenital Heart Disease: Echocardiographic Evaluation
  Sabrina Phillips, MD, FASE

- The Impact of Contrast for Ventricular Cavity Opacification
  Kevin Wei MD, FASE
Smartphone/Tablet Applications

Echo AUC App
AVAILABLE: Apple store and Google Play store.
ASE Foundation received support from the Robert Wood Johnson Foundation and the Choosing Wisely campaign to develop the Echo Appropriate Use Criterial application. This app is utilized to help physicians make wise decisions about the most appropriate care for the patient.
**ASE Member & Nonmember:** FREE

iASE App
AVAILABLE: Apple store and Google Play store.
This application is a platform to deliver the top guidelines published by ASE.
Each guideline summary includes key tables, reference values, and figures that are quick and easy to look-up. They can also serve as a teaching tool in an educational setting.
Close to 30 echocardiography calculators are included to complement the guidelines. They feature useful information, figures, and references.
The rapid access library contains 54 guidelines from 1999-2015 totaling over 1000 pages that can reviewed, downloaded, and printed.

**Echocardiography calculators:**
- Aortic Root Index
- AV Velocity Ratio
- AVA (Continuity Eqn VTI)
- AVA (Continuity Eqn VMax)
- dP/dt (LV Contractility)
- dP/dt (RV Contractility)
- Left Atrial Pressure (MR)
- LA Volume (Biplane Method)
- LV EF (Mod Quinones Eqn)
- LV EF (Simp Quinones Eqn)
- LV Fractional Shortening
- LV Mass and LV Mass Index
- Mitral Valve Area (PHT)
- Mitral Valvuloplasty Score
- Modified Bernoulli Equation
- MPI (LV)
- MPI (RV)
- Prosthetic AV EOA
- Prosthetic AV DVIRV
- Prosthetic MV EOA
- Prosthetic MV DVI
- PISA (Mitral Regurgitation)
- PISA (Mitral Stenosis)
- Qp/Qs
- RVSP (TR)
- Sinus Valsalva Dimensions
- SV, CO

**Included special reference value tables:**
- Prosthetic Aortic Valves
- Estimation of Filling Pressures
- Prosthetic Mitral Valves
- Grading of Diastolic
- Evaluation of Elevated Peak Dysfunction
- Prosthetic Aortic Jet Velocity >3 m/s

**Included guideline summaries are:**
- Chamber Quantification (2015)
- Left Ventricular Diastolic Function (2009)
- Prosthetic Valves (2009)
- Valvular Stenosis (2009)

**ASE Member & Nonmember:** $4.99
Connect@ASE – ASE’s Networking Platform

Participate in the global conversation on ASE’s networking platform, Connect@ASE (Connect.ASEcho.org). This members-only site is the host for our active discussion forums, our image library containing hundreds of moving images, and our enhanced member directory to connect with colleagues. Access Connect@ASE on your device by downloading the free app by searching for ‘MemberCentric’ and selecting ASE.

For more information, visit Connect.ASEcho.org

ASE Education Co-Sponsorship (without CME)

As an organization dedicated to excellence in cardiovascular ultrasound for patient care, ASE strives to promote and provide opportunities for enhancement of knowledge and skills of members and nonmembers through its educational programming. The purpose of ASE’s educational programs is to improve proficiency in the field of cardiovascular ultrasound, which is an important tool for optimal management of patients with heart disease.

A co-sponsorship agreement without CME is one whereby the submitting organization is an ACCME Accredited Provider responsible for the educational integrity of the program. ASE will endorse the educational activity, but assumes no CME responsibility; the submitting organization is responsible for providing CME and ensuring that the activity is conducted in accordance with all ACCME guidelines and policies. Multiple sponsorship levels are available, each with great marketing benefits to help drive course attendance. ASE accepts applications for co-sponsorship based upon topic, time frame, and target audience.

For full details, pricing, and to download a copy of the application, please visit ASEcho.org/ASE-sponsorship-opportunity.

Hospital CEU Programs

This program is designed for cardiac ultrasound and cardiovascular laboratories that hold monthly, in-house meetings related to echocardiography. Under the guidelines set forth by this program, sonographer attendees will be eligible for up to 12 ASE CEU credits per year from attendance at these meetings. ASE CEU credits are honored by ARDMS and CCI towards registry requirements for sonographers.

For labs up to 10 people: $250
For labs with 11 – 25 people: $300
For labs with 26 – 50 people: $400
For labs with over 50 people: $500

For more information, visit ASEcho.org/ceuprograms

Local Society CEU Program

ASE partners with local echocardiography societies to provide CEU to cardiovascular sonographers attending their meeting. Local echocardiography societies will be approved to offer up to 12 ASE CEU credits to attendees per year. ASE CEU credits are honored by ARDMS and CCI towards registry requirements for sonographers.

Application Fee: $300

For more information, visit ASEcho.org/ceuprograms

How to Order Products

ASE Members
1. Login to your member portal by selecting the “Login” button at the top of ASEcho.org.
2. Select “ASE MarketPlace” on the left side.
3. Select the category for your product and locate it in the displayed list.
4. Select “Learn More” to see a detailed product description and to add the product to your cart.

Nonmembers
1. Navigate a web browser to Amazon.com/shops/ASE.
2. Locate the search bar near the top of the screen, and enter the product name.
3. Click the “Go” button to the right of the search bar to display the list of products.
## Product Price Guide

<table>
<thead>
<tr>
<th>Product</th>
<th>Availability</th>
<th>Credits</th>
<th>Member</th>
<th>Nonmember</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL EDUCATION PRODUCTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASE Annual Scientific Sessions Online Library</td>
<td>Online</td>
<td>$299</td>
<td>$399</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>ASE's Comprehensive Echocardiography</td>
<td>Textbook; e-Book</td>
<td>$199</td>
<td>$229</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Best of ASE Per Volume Bundle</td>
<td>Online; DVD</td>
<td>$75</td>
<td>$475</td>
<td>$95</td>
<td>10</td>
</tr>
<tr>
<td>Case-based Learning: Focus on Patient Safety*</td>
<td>Online ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>10</td>
</tr>
<tr>
<td>Clinical Cases in Echocardiography: Focus on Congenital Heart Disease*</td>
<td>Online ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>10</td>
</tr>
<tr>
<td>Contrast-enhanced Echocardiography Lecture Series</td>
<td>Online ONLY</td>
<td>CME, MOC</td>
<td>Free</td>
<td>Free</td>
<td>11</td>
</tr>
<tr>
<td>Echo Test and Teach*</td>
<td>Online Software</td>
<td>CME</td>
<td>Call</td>
<td>Call</td>
<td>15</td>
</tr>
<tr>
<td>Essentials for Proficiency in Basic Cardiovascular Ultrasound</td>
<td>Online with e-Book; DVD with workbook</td>
<td>CME, MOC</td>
<td>$150</td>
<td>$250</td>
<td>11</td>
</tr>
<tr>
<td>Focused Cardiac Ultrasound: Fundamentals of Acquisition and Interpretation</td>
<td>DVD ONLY</td>
<td>CME, MOC</td>
<td>$150</td>
<td>$250</td>
<td>12</td>
</tr>
<tr>
<td>How to Perform a Transthoracic Echocardiographic Study</td>
<td>DVD ONLY</td>
<td>CME, MOC</td>
<td>$99</td>
<td>$150</td>
<td>12</td>
</tr>
<tr>
<td>Pediatric and Congenital Heart Disease Lecture Series*</td>
<td>Online ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>12</td>
</tr>
<tr>
<td>Proper Echocardiographic Measurements: How and Why*</td>
<td>Online; DVD</td>
<td>CME</td>
<td>$175</td>
<td>$250</td>
<td>13</td>
</tr>
<tr>
<td>Self-Study Program III*</td>
<td>DVD ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>13</td>
</tr>
<tr>
<td>Self-Study Program IV*</td>
<td>DVD ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>14</td>
</tr>
<tr>
<td>Self-Study Program - Pediatric and Congenital Heart Disease</td>
<td>DVD ONLY</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>14</td>
</tr>
<tr>
<td>Transesophageal Echocardiography in Perioperative Care*</td>
<td>Online; DVD</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>14</td>
</tr>
<tr>
<td>Transesophageal Echocardiography in Structural Heart Disease*</td>
<td>Online; DVD</td>
<td>CME, MOC</td>
<td>$175</td>
<td>$250</td>
<td>15</td>
</tr>
</tbody>
</table>

**Exam Review Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Availability</th>
<th>Credits</th>
<th>Member</th>
<th>Nonmember</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Cardiac Sonographer Registry Review</td>
<td>Online ONLY</td>
<td>$150</td>
<td>$250</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ASCEXAM/ReASCE Review Course Online Library</td>
<td>Online ONLY</td>
<td>$375</td>
<td>$525</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>ASCEXAM/ReASCE Online Practice Simulation*</td>
<td>Online ONLY</td>
<td>$199</td>
<td>$250</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Cardiovascular Sonographer Registry Review Guide</td>
<td>Online with downloadable workbook; DVD with workbook</td>
<td>$150</td>
<td>$250</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

**Guideline Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>e-Book; Binder with Inserts</th>
<th>Credits</th>
<th>Member</th>
<th>Nonmember</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASE Guidelines Reference Book</td>
<td>e-Book; Binder with Inserts</td>
<td>$285</td>
<td>$385</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>ASE Guidelines Reference Book Inserts</td>
<td></td>
<td>$40</td>
<td>$75</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Pocket Guidelines</td>
<td>Individual Bundle</td>
<td>$10</td>
<td>$15</td>
<td>$75</td>
<td>18</td>
</tr>
<tr>
<td>Guideline Posters</td>
<td>Individuals Poster Set</td>
<td>$20</td>
<td>$30</td>
<td>$280</td>
<td>19</td>
</tr>
<tr>
<td>Guideline Posters Flip Chart</td>
<td>Individuals Flip Chart Set</td>
<td>$50</td>
<td>$30</td>
<td>$250</td>
<td>19</td>
</tr>
<tr>
<td>Guideline Lab Bundle</td>
<td></td>
<td>$995</td>
<td>$1,295</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

**JASE, Online Articles, and Webinars**

<table>
<thead>
<tr>
<th>Product</th>
<th>Credits</th>
<th>Member</th>
<th>Nonmember</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal of the American Society of Echocardiography (JASE)</td>
<td>Free</td>
<td></td>
<td>$352/yr US</td>
<td>20</td>
</tr>
<tr>
<td>Articles</td>
<td>Online ONLY</td>
<td>CME, MOC</td>
<td>Free</td>
<td>$25</td>
</tr>
<tr>
<td>On Demand Webinars</td>
<td>Online ONLY</td>
<td>CME as noted</td>
<td>Free</td>
<td>$25</td>
</tr>
</tbody>
</table>

**Smartphone / Tablet Applications**

<table>
<thead>
<tr>
<th>Product</th>
<th>Credits</th>
<th>Member</th>
<th>Nonmember</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echo AUC</td>
<td>Downloadable</td>
<td>Free</td>
<td>Free</td>
<td>23</td>
</tr>
<tr>
<td>iASE App</td>
<td>Downloadable</td>
<td>$4.99</td>
<td>$4.99</td>
<td>23</td>
</tr>
</tbody>
</table>

*Multi user license pricing available*
As the largest global organization for cardiovascular ultrasound imaging, The American Society of Echocardiography (ASE) is the leader and advocate, setting practice standards and guidelines. Comprised of over 17,000 physicians, sonographers, nurses, and scientists, ASE is a strong voice providing guidance, expertise, and education to its members with a commitment to improving the practice of ultrasound and imaging of the heart and cardiovascular system for better patient outcomes.

Anyone with an interest in cardiovascular ultrasound is welcome to become a member of ASE! Thousands of leaders in the field of echocardiography already receive ASE’s many benefits.

**ASE Membership Benefits**

**Valuable Education, Products, and Career Resources**

**ASE Guidelines** – With over 60 published recommendations, these documents not only provide the foundation for the daily clinical practice of echocardiography worldwide, they are the core of ASE. Many guidelines have been translated into languages other than English.

**Free ASE Guideline webinars to ASE Members** – Presentations by the lead authors with dedicated question and answer time to understand how to implement the guideline in your practice for better patient care.

**Journal of the American Society of Echocardiography (JASE)** – A monthly subscription to learn and stay current in the field of echocardiography through original, peer-reviewed articles.

**CASE** – ASE’s online, open-access, cardiovascular imaging case reports journal. ASE members enjoy significantly discounted publication fees for this journal.

**The Echo** – A weekly eNewsletter to help keep you informed about changes in your industry, ASE news, educational opportunities and upcoming events.

**Discounted Live Educational Courses** – Learn from the experts and network with colleagues.

**Online Continuing Education at ASEUniversity** – Currently over 30 free CME credits are included with ASE memberships.

**CME/MOC/CEU Reporting** – ASE regularly reports approved ASE CME credits earned to the American Board of Internal Medicine (ABIM), American Board of Pediatrics (ABP), American Board of Anesthesiology (ABA), American Registry for Diagnostic Medical Sonography (ARDMS), and Cardiovascular Credentialing International (CCI).

**Product Discounts** – Receive an average of 30% off most ASE educational products including textbooks and DVD's.

**Peer-to-Peer Networking** – Connect@ASE allows members to network with like-minded echo enthusiasts through private online forums, interactive member directory, blogs, communities, and more.

**Digital Image Library** – Members can share echo images for educational purposes.

**Fellow of the American Society of Echocardiography (FASE)** – The FASE credential recognizes the dedicated ASE member with an extraordinary commitment to the field of cardiovascular ultrasound. This designation is a peer-review process.

**Special Interest Councils** – Councils are open to all ASE members regardless of their area of practice. Councils include: Cardiovascular Sonography, Pediatric and Congenital Heart Disease, Perioperative Echocardiography, and Vascular Ultrasound.

**ASE Advocacy Efforts** – ASE represents our members, while advocating to create an environment for excellence in the quality and practice of cardiovascular ultrasound. ASE’s role as the voice of echocardiography on Capitol Hill, to federal agencies, and among private payers is unquestionably of great, and ever-increasing, importance.

**Reimbursement and Coding Assistance** – ASE’s provides an annual coding newsletter and reimbursement updates. Members also have access to ASE’s coding expert for specific questions about reimbursement.

**ASE Endorsed Professional Liability Insurance** – Available for sonographers.

**Research and Travel Grants** – Council and ASE Foundation grants for physicians, sonographers, and student members only.

**Service on ASE Committees and Boards** – ASE members are encouraged to apply for open positions to increase their involvement in the Society, influence the creation of guidelines and standards, educational courses, products, and much more.

**ASE’s Mission**

ASE is committed to excellence in cardiovascular ultrasound and its application to patient care through education, advocacy, research, innovation, and service to our members and the public. Our members are heart and circulation ultrasound specialists dedicated to improving their patients’ health and quality of life. They use ultrasound to provide an exceptional view of the cardiovascular system to enhance patient care.

Learn more at ASEcho.org
ASE strives to maintain low membership fees while offering an extremely wide range of benefits to the cardiovascular imaging professional. International dues are available to anyone who resides outside the United States.

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>United States</th>
<th>International ** (online JASE only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physician/Scientist</td>
<td>$305</td>
<td>$100</td>
</tr>
<tr>
<td>Sonographer/Allied Health*</td>
<td>$160</td>
<td>$100</td>
</tr>
<tr>
<td>Rising Star (completed training within last two years)</td>
<td>$150</td>
<td>$85</td>
</tr>
<tr>
<td>Fellow, Student, Sonographer/Allied Health Student **</td>
<td>$75 (online JASE only)</td>
<td>$75</td>
</tr>
<tr>
<td>Professional Industry Affiliate**</td>
<td>$305</td>
<td>$305</td>
</tr>
</tbody>
</table>

A print subscription to the *Journal of the American Society of Echocardiography* (JASE) is included in the dues rates, unless noted above with++. All fees are in US dollars.

* The Allied Health category includes sonographers, nurses, and physician assistants.

** Individuals with an interest in cardiovascular ultrasound that are not professional healthcare practitioners, such as Hospital Administrators, Industry Professionals and Media.

++ A print subscription can be added to these membership types for an additional $90 USD.

Experts in the field hold the designation of **FASE**

Want to achieve the FASE designation? All echo specialists, in addition to cardiologists, can apply for FASE at ASEcho.org/FASE.