American Society of Echocardiography

ASE 2024
35th Annual Scientific Sessions

Global Echocardiography
Innovations in Diagnosis and Beyond

June 14-16, 2024
Oregon Convention Center
Portland, OR

ASEScientificSessions.org #ASE2024

FINAL PROGRAM
Ventricular Arrhythmia Related to High Mechanical Index
High ultrasound mechanical index values may cause microsphere cavitation or rupture and lead to ventricular arrhythmias. Additionally, end-systolic triggering with high mechanical index has been reported to cause ventricular arrhythmias. The maximum recommended mechanical index for use with DEFINITY is 0.8 in adult patients and 0.3 in pediatric patients [see Dosage and Administration (2.4)].

Pain Episodes in Patients with Sickle Cell Disease
In postmarketing reports, acute pain episodes shortly following DEFINITY administration have been reported in patients with sickle cell disease (SCD). The pain episodes included moderate to severe back pain and vaso-occlusive crisis [see Adverse Reactions (6.2)]. If a patient with sickle cell disease experiences new or worsening pain, discontinue DEFINITY.

ADVERSE REACTIONS
The following serious adverse reactions are described elsewhere in the labeling:

- Serious Cardiopulmonary Reactions [see Warnings and Precautions (5.2)]
- Hypersensitivity Reactions [see Warnings and Precautions (5.3)]
- Pain Episodes in Patients with Sickle Cell Disease [see Warnings and Precautions (5.5)]

Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adverse Reactions in Adults
Safety of DEFINITY was evaluated in a total of 1,716 adult subjects in pre-market clinical trials. In this group, 1,063 (62%) were male and 653 (38%) were female, 1,328 (77%) were White, 258 (15%) were Black or African American, 74 (4%) were Hispanic, and 56 (3%) were classified as other racial or ethnic groups. The mean age was 56 years (range 18 to 93). Among the 1,716 subjects, 19 (1.1%) suffered serious cardiopulmonary adverse reactions.

Adverse reactions that led to discontinuation in a total of 15 (0.9%) subjects receiving DEFINITY in the clinical trials included urticaria, pruritus, dizziness, chest pain, dyspnea, and back pain.

Table 1 summarizes the most common adverse reactions occurring at ≥0.5%.

<table>
<thead>
<tr>
<th>Reaction</th>
<th>N=Sample size 1716 subjects who received activated DEFINITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DEFINITY (N-1716)</strong></td>
<td></td>
</tr>
<tr>
<td>Total Number of Adverse Reactions</td>
<td>269</td>
</tr>
<tr>
<td>Total Number of Subjects with an Adverse Reaction</td>
<td>144</td>
</tr>
<tr>
<td>Body system</td>
<td>(8.4%)</td>
</tr>
<tr>
<td>Preferred term n (%)</td>
<td></td>
</tr>
<tr>
<td>Application Site Disorders</td>
<td>11 (0.6)</td>
</tr>
<tr>
<td>Injection Site Reactions</td>
<td>11 (0.6)</td>
</tr>
<tr>
<td>Body as a Whole</td>
<td>41 (2.4)</td>
</tr>
<tr>
<td>Back/renal pain</td>
<td>20 (1.2)</td>
</tr>
<tr>
<td>Chest pain</td>
<td>13 (0.8)</td>
</tr>
<tr>
<td>Central and peripheral system disorder</td>
<td>54 (3.1)</td>
</tr>
<tr>
<td>Headache</td>
<td>40 (2.3)</td>
</tr>
<tr>
<td>Dizziness</td>
<td>11 (0.6)</td>
</tr>
<tr>
<td>Gastrointestinal system disorder</td>
<td>31 (1.8)</td>
</tr>
<tr>
<td>Nausea</td>
<td>17 (1.0)</td>
</tr>
<tr>
<td>Vascular (extracardiac) disorders</td>
<td>19 (1.1)</td>
</tr>
<tr>
<td>Flushing</td>
<td>19 (1.1)</td>
</tr>
</tbody>
</table>


table

N=Sample size 1716 subjects who received activated DEFINITY
n=Number of subjects reporting at least one Adverse Reaction

Other adverse reactions that occurred in <0.5% of the activated DEFINITY-dosed adult subjects were:

- Body as a Whole: Fatigue, fever, hot flushes, pain, rigors, and syncope
- Cardiovascular: Abnormal ECGs, bradycardia, tachycardia, palpitation, hypertension and hypotension
- Digestive: Dyspepsia, dry mouth, tongue disorder, toothache, abdominal pain, diarrhea and vomiting

Hematology: Granulocytosis, leukocytosis, leukopenia, and eosinophilia
Musculoskeletal: Arthralgia
Nervous System: Leg cramps, hypertonia, vertigo and parasthesia
Platelet, Bleeding, and Clotting: Hematoma
Respiratory: Coughing, hypoaxia, pharyngitis, rhinitis and dyspnea

Special Sensities: Decreased hearing, conjunctivitis, abnormal vision and taste perversion
Skin: Pruritus, rash, erythematosus rash, urticaria, increased sweating, and dry skin
Urinary: Albuminuria

Adverse Reactions in Pediatric Patients
In a study of DEFINITY in 40 pediatric patients 1 month of age and older, no new safety signals were observed [see Use in Specific Populations (8.4) Clinical Pharmacology (12.2)].

In published studies of DEFINITY in 149 patients 5 years to 24 years of age (mean age 16.8 years; 56% male) clinically indicated for echocardiography, no additional safety signals were observed.

Postmarketing Experience
Adverse Reactions from Postmarketing Spontaneous Reports
The following adverse reactions have been identified during the post-marketing use of perfluor and PEG-containing microsphere products. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Cardiopulmonary
Fatal cardiac or respiratory arrest, shock, syncope, symptomatic arrhythmias (atrial fibrillation, tachycardia, bradycardia, supraventricular tachycardia, ventricular fibrillation, ventricular tachycardia), hypertension, hypotension, dyspnea, hypoaxia, chest pain, respiratory distress, stridor, wheezing, loss of consciousness, and convulsions.

Neurologic
Coma, loss of consciousness, convolution, seizure, transient ischemic attack, agitation, tremor, vision blurred, dizziness, headache, fatigue.

Blood and Lymphatic System
Acute pain episodes including vaso-occlusive crisis in patients with sickle cell disease.

PATIENT COUNSELING INFORMATION
Hypersensitivity Reactions
Advise patients to inform their healthcare provider if they develop any symptoms of hypersensitivity after DEFINITY administration, including rash, wheezing, or shortness of breath [see Warnings and Precautions (5.2)].

For ordering, call toll free: 800-299-3431
All Other Business: 800-362-2668
For Massachusetts and international, call: 978-667-8531
PM-US-DE-0625 515887-0324
INDICATIONS
DEFINITY® is indicated, after activation, for use in adult and pediatric patients with suboptimal echocardiograms to opacify the left ventricular chamber and to improve the delineation of the left ventricular endocardial border.

CONTRAINDICATIONS
DEFINITY® is contraindicated in patients with known or suspected hypersensitivity to perflutren lipid microsphere or its components, such as polyethylene glycol (PEG) [see Warnings and Precautions (5.2) and Description (11)].

IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS CARDIOPULMONARY REACTIONS
Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or following perflutren-containing microsphere administration. Most serious reactions occur within 30 minutes of administration.

• Assess all patients for the presence of any condition that precludes DEFINITY® administration [see Contraindications (4)].

• Always have resuscitation equipment and trained personnel readily available [see Warnings and Precautions (5.1)].

In postmarketing use, rare but serious cardiopulmonary or hypersensitivity reactions have been reported during or shortly following perflutren and PEG-containing microsphere administration [see Adverse Reactions (6)]. The risk for these reactions may be increased among patients with unstable cardiopulmonary conditions and/or with pre-existing PEG hypersensitivity [see Adverse Reactions (6.2)]. It is not always possible to reliably establish a causal relationship to drug exposure due to the presence of underlying conditions.

Patients with sickle cell disease may be at higher risk of painful crisis and DEFINITY® should be administered with caution.

Please see adjacent Brief Summary of the Prescribing Information, including boxed WARNING on subsequent pages. Please see full Prescribing Information at DEFINITYimaging.com

REFERENCES:
A clearer echo. A better treatment plan.

Your decisions have real-life consequences. High DEF(INITY)™, high-resolution echocardiograms help answer clinical questions and improve patient management.¹

DEFINITY® provides prolonged enhancement at a low dose so your patients get the accurate echoes and diagnoses they deserve.¹,²

Please see adjacent Brief Summary of the Prescribing Information, including boxed WARNING on subsequent pages. Please see full Prescribing Information at DEFINITYimaging.com.
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CALL FOR APPLICATIONS

EARLY-CAREER DEVELOPMENT GRANT FOR ECHO SCIENTISTS (EDGES)

3 GRANTS OF UP TO $25,000

The EDGES grant will provide funding to early career clinical, basic science, or engineering investigators who are conducting research projects that address a clinical gap in cardiovascular ultrasound imaging.

Deadline to Apply: July 1, 2024 | Learn more at: ASEFoundation.org/EDGESResearchGrant
## Conference Overview

<table>
<thead>
<tr>
<th>Time</th>
<th>FRIDAY, JUNE 14</th>
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**Sessions**

**Break**

**Registration**

**ECHO EXPO OPEN**

**Lunch**

**Science & Technology Theaters in the Echo Expo**

**25th Annual Feigenbaum Lecture & Weyman YIA Competition**

**35th Annual Edler Lecture & Awards Presentation**

**Haluska Research Award Competition**

**President’s Reception in the Echo Expo**

**ASE Foundation 15th Annual Research Awards Gala**

6:30-11:00 PM (Ticketed Event)

For detailed information, please download Whova, the ASE Courses app.
THANK YOU ASE SOCIAL MEDIA CHAMPIONS • #ASE2024

Theodore Abraham, MD, FASE @tabrahammd
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Melissa Wasserman, RDACS, RCCS, FASE @MelisaWasserman
David Wiener, MD, FASE @DavidWienerMD

Follow ASE Social Media Champions as they provide live updates from this year’s Scientific Sessions Tracks | ASEScientificSessions.org/SocialMediaChampions
On behalf of the entire Scientific Sessions Planning Committee, we are delighted to welcome you to the 35th Annual ASE Scientific Sessions in Portland, Oregon. We are honored you are joining us for Global Echocardiography: Innovations in Diagnosis and Beyond, an educational experience gathering experts and enthusiasts in echocardiography from around the world.

ASE 2024 will be a truly enriching experience with an innovative dynamic approach, featuring a diverse lineup of expert speakers and discussants, delivered through hands-on workshops and interactive sessions. There will be ample opportunities for learning, networking, collaboration, and audience participation. The format this year has some new pathways and some favorites from past years. Our goal is to provide an environment for engaged learning through case-based discussions and a few traditional lectures delivered by a diverse faculty including multiple disciplines and international representatives.

Over the next couple days, we will explore the latest advancements, share groundbreaking research while engaging in stimulating educational discussions that will shape the future of cardiovascular imaging. Whether you are a seasoned professional or a newcomer to the field, we are confident that you will find inspiration and valuable insights to take back to your practice.

Highlights and new features this year include:

- Joint sessions with **17 partnering multimodality organizations**.
- The Keynote Gardin Lecture with **Jagat Narula, MD, PhD**, president-elect of the World Heart Federation.
- The opening Plenary Session featuring ASE President, **Benjamin Eidem, MD, FASE**, presenting the State of ASE, and recognition of the 2024 Award Winners, 3rd Leadership Academy, and 2023 FASE members.
- **Stephen Little, MD, FASE**, Immediate Past President, presenting the 35th Annual Edler Lecture.
- **Sonographer Career Day** on Saturday where sonographer students are encouraged to attend and learn for the day. There are many sessions specifically designed for professional development, including two recruiting sessions were employers and professionals on the look may find a great match to build their future together.
- Six **Science & Technology Theater** presentations by industry in the Echo Expo.
- The 25th Feigenbaum Lecture, presented by **Shaine Morris, MD, MPH, FASE**, during the Arthur E. Weyman Young Investigator’s Award Competition.
- Five **Read with Me** sessions to learn directly from the experts.
- The Kerber Lecture, presented by ASE Past President, **Linda Gillam, MD, MPH, FASE**.
- The **Brian Haluska Sonographer Research Competition** on Sunday afternoon.
- Eleven **Poster Sessions** and three **Rapid Fire Abstract Presentations**.

We extend our sincere appreciation to all our sponsors, exhibitors, and partners whose support has been instrumental in making this event possible. Their commitment to advancing the field of echocardiography is commendable, and we are grateful for their contributions.

We encourage you to make the most of your time here, engage with your peers, and take advantage of the resources available to you. Together, let us explore the frontiers of cardiovascular imaging and work towards improving patient care and outcomes worldwide.

Once again, welcome to the ASE 2024 Scientific Sessions. We hope you find this experience both rewarding and inspiring.
ASE 2024 PROGRAM COMMITTEE

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Program Chair

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President-Elect

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Melissa Wasserman, RDCS, RCCS, FASE
Member at Large
ATTENDEE REGISTRATION
The ASE Registration Desk is located in the Oregon Convention Center Pre-Function C Lobby. Attendees may pick up their conference materials, name badge, and ribbons at this location.

REGISTRATION HOURS
Friday, June 14 .................................................. 10:00 AM – 5:30 PM
Saturday, June 15 .............................................. 6:30 AM – 6:00 PM
Sunday, June 16 ................................................... 6:30 AM – 5:30 PM

NAME BADGES
Admission to the educational sessions, Echo Expo, and Science & Technology Theaters is by badge only. Please wear your name badge at all times when in the convention center. We recommend, for your safety, that you do not wear your name badge outside of the convention center. ASE exhibitors may scan your badge in the Echo Expo or Science & Technology Theaters. Your name badge is used for lead retrieval and provides exhibitors with your name, institution (where applicable), mailing address, business telephone number, and email address.

ASE will not release email addresses of attendees who declined the lead retrieval option on their registration form. Family members with guest badges will be admitted to the Echo Expo and may sit in on educational sessions as space allows, but they are not eligible for a conference bag or to claim CME/MOC/CEU credit. Guests must be at least 12 years old. You may purchase guest badges for family members at the ASE Registration Desk. ASE reserves the right to revoke or deny attendance to any participant, speaker, exhibitor, news media reporter, or photographer at presentations or activities during the 35th Annual ASE Scientific Sessions.

SPEAKER READY ROOM
The Speaker Ready Room is located in B115-B116 and staffed with technicians to assist faculty with uploading and previewing presentations. It is open during the following times:
Friday, June 14 .................................................... 9:00 AM – 5:00 PM
Saturday, June 15 ................................................ 6:00 AM – 5:00 PM
Sunday, June 16 .................................................. 6:00 AM – 5:00 PM

NEWS MEDIA
For information regarding news releases, news conferences, and interviews, please visit the ASE Registration Desk located in the Oregon Convention Center Pre-Function C Lobby. Copies of all news releases are also available on ASEcho.org under “News.” Media representatives must be registered and display their official ASE badge to enter conference areas. Please conform to our Photography and Audio/Visual Recording policy. Use #ASE2024 and follow @ASE360 for ASE’s breaking news.
FACILITY INFORMATION

Oregon Convention Center’s physical address is:
777 NE Martin Luther King Jr. Boulevard, Portland, OR 97232

FIRST AID
An emergency medical professional will be available during the hours of the ASE 2024 meeting, as well as during setup and break down of the entire event. In the event of a medical emergency, please find a staff member or security guard to call the medic on duty.

LOST & FOUND
Questions regarding lost or found items can be directed to the ASE Registration Desk located in the Pre-Function C Lobby of the convention center.

LUGGAGE STORAGE
Luggage storage will be available at the Oregon Convention Center Friday-Tuesday in room A103.

SELF-SERVICE PRINTING CENTER
Self-serve complimentary cloud-based printing and copying (black and white, 8.5” x 11” paper only) is located next to the main welcome desk in front of the guest experience office on the lobby level across from the MLK entrance of the Oregon Convention Center. Copying, faxing, and scanning services are not available onsite. The printing center is open during the hours of our event.

ATMS
You will find five ATMs conveniently located within the Convention Center:
- Pre-Function A Lobby
- Pre-Function B Lobby
- Pre-Function C Lobby
- South Ginkoberry Concourse
- Pre-Function E Lobby
FOOD FUNCTIONS
The President's Reception will be held in the Echo Expo on Friday from 3:30-5:30 PM for all registered attendees. ASE will provide continental breakfast in the Oregon Ballroom Lobby and Pre-Function A, from 6:30 – 7:30 AM on Saturday and Sunday. Morning and afternoon coffee breaks are available for attendees in the Oregon Ballroom Lobby and the Echo Expo on Saturday and Sunday. Please refer to the Schedule at a Glance for the times of the daily morning, lunch, and afternoon breaks.

ASE will provide lunch on a first-come, first-served basis (max. 300 participants) for attendees in the Science & Technology Theater sessions, located in the Echo Expo. See page 43 of this program for a detailed Science & Technology Theater schedule.

INTERNET ACCESS
Complimentary WiFi is available in the Oregon Convention Center.
Please use the following log-in information:
Network: ASE2024
Password: echofirst

SAFETY
Audience seating is on a first-come, first-served basis. According to fire code, a session must be closed if the room fills to capacity. ASE reserves the right to close session rooms as needed, without compensation to attendees. Inappropriate behavior or undesirable conduct, including, but not limited to, verbal or physical abuse, whether threatened or performed, will not be permitted or tolerated. You must wear your name badge at all times in the convention center. Be sure to remove your badge when you leave the convention center.

MOBILE DEVICE USE AND ASE LIVE COURSE APP
ASE is using the online platform Whova as its 2024 live course app. Whova will give you access to the entire meeting program at your fingertips. You can also use the app to ask questions during the sessions you attend. Some sessions will also use Whova’s polling functions. Search “Whova” in the Google Play and Apple Stores to download for free.
Whova allows for more interaction among participants at the meeting including:

• Finding others who are attending ASE 2024 and reaching out to them at any time.
• Planning social activities such as a morning run, coffee hours, or meet-ups with your fellow attendees.
• Uploading pictures from the event to share with others.
• Important course information like:
  » The event agenda and planning your personal schedule.
  » Access to documents and slides shared by organizers or speakers.
  » Updates like possible last minute session changes from the organizers.

If you have already used the Whova app, just double-check that the app is currently installed on your phone, tablet, or computer, and log in using your existing account email and password.

FIRST TIME WHOVA USER?

MOBILE APP
After downloading Whova, you will be prompted to create an account. We suggest that you use the email address you used when registering for ASE 2024 and create a strong password. By using the email address you used when registering for ASE 2024, the platform will automatically associate you with the event and take you to your event page.

WEB PORTAL
Once you have downloaded and signed into the Whova app on your mobile device, you will receive an email from Whova with the web portal URL. Open your email on your laptop/tablet and click the web portal link to access the app through your browser.

If you are not automatically connected to the event and you are prompted for an event code, please reference the email you were sent on Monday, June 10, from Christina LaFuria at event-noreply@whova.io, on the back of your name badge, or visit the registration desk in Pre-Function C Lobby.

AUDIO/VIDEO/PHOTOGRAPHY/SOCIAL MEDIA POLICIES
Please be aware that during the ASE Scientific Sessions, attendees, vendors, guests, and exhibitors may be photographed or videotaped by ASE staff and contractors capturing the event. Some of these photographs or videos may be displayed by ASE in future publications or other materials. By virtue of your attendance, you agree to allow ASE to use photographs of you in its promotional materials.

Much of the information being presented at the ASE Scientific Sessions is proprietary and may include unpublished data. It is the responsibility of the presenter to notify the attendees that they do not want their research captured. This can be done by verbal announcement from the podium or with a notice on a poster presentation. Please be respectful of these wishes and DO NOT capture or share details of unpublished data. The following policies must be followed. Attendees who violate these policies may be asked to leave the educational session and are at risk of losing their conference badge and privileges.

AUDIO/VIDEO RECORDING POLICY
Audio/video recording of any portion of the meeting room slides or poster presentations at ASE 2024 Scientific Sessions is prohibited. ASE reserves the rights to all recordings or reproductions at ASE meetings. Audio/video recording by individuals for personal use and for social media use is allowed only at social events and in public spaces throughout the meeting.
PHOTOGRAPHY POLICY

ASE 2024 attendees may take photographs during social and educational sessions provided the photographs are strictly for personal and noncommercial use. Please do not use flash photography, block audience members, or in any way be disruptive when taking photos.

SOCIAL MEDIA POLICY

The use of social media at the ASE Scientific Sessions is welcomed, including live tweeting. Sharing photographs, including a single slide from a presentation, on social media is permitted. Please identify the presenter by name and tag in the post. ASE has printed Twitter handles on name badges to encourage engagement. Some presenters may request that photographs of their presentation not be shared. It is the responsibility of the attendee to respect the presenter’s request. Use #ASE2024 when posting on social media and be sure to tag @ASE360.

QUIET ROOMS – PRAYER OR MEDITATION SPACE

Room G-129 of the Oregon Convention Center is designated as a quiet room designated for prayer or meditation. This room is locked, but a key is available at the ASE Registration Desk in Pre-Function C Lobby. The rooms will have standard AC power outlets. Access to a refrigerator is available at the ASE Registration Desk.

SUITES FOR NURSING

The OCC provides two Mamava nursing suites. These private and secure suites are located near the A and E meeting rooms on Level 1. The suites are ADA-compatible with a comfortable seating area and are equipped with standard AC power outlets and USB charger ports.

See the ASE Registration Desk in Pre-Function C Lobby for the door code and access to a refrigerator.

Note: All Mamava suites come with a Bluetooth SmartLock that syncs with Mamava’s mobile app. Download the app at mamava.com/mobile-app.

CHILDREN RULES AND REGULATIONS

All children ages 16 and under must be accompanied at all times by their parent or guardian while in the Oregon Convention Center. Children ages 12 and older should be registered as an ASE Guest, and wear their official ASE name badge at all times while at the meeting. Parents or guardians assume all responsibility for their children and their behavior. Children of any age, in strollers, or infant carriers are permitted in the Echo Expo while under the supervision of a parent or guardian. However, please note that for their safety, children are not allowed in the Echo Expo during set up or tear down hours.

Due to limited seating capacity and the highly technical nature of the program, children are not encouraged to attend the educational sessions. However, ASE recognizes that in some cases, some children may need to remain with their parent at all times. If this is the case and you bring your child into the educational sessions, please be conscientious of your fellow attendees’ learning experiences by attempting to minimize distractions. As with all attendees, those exhibiting disruptive behavior may be asked to leave these sessions for the benefit of the other attendees.
CLAIMING CME CREDIT

To claim your CME/MOC credit for the 35th Annual ASE Scientific Sessions, please visit ASEScientificSessions.org/CME for instructions. The CME/MOC evaluation will be available June 16, 2024. Attendees must claim credit by June 16, 2025.

ASE 2024 IN-PERSON CME

Registration includes up to 20.75 CME/MOC credits (see the breakdown of daily, in-person hours below). Attendees may only claim CME/MOC credits for attending sessions in-person.

- Friday – 4.75
- Saturday – 7.75
- Sunday – 8.25

ASE 2024 VIRTUAL CME

Registration includes live streaming from three plenary rooms, up to 19.5 CME/MOC credits (see the breakdown of daily, live streaming hours below.) Virtual attendees may claim CME/MOC credits for watching either the live-streamed or recorded sessions.

- Friday – 3.75
- Saturday – 7.75
- Sunday – 8.0

TARGET AUDIENCE

The ASE 2024 Scientific Sessions will benefit all healthcare providers interested in the application of cardiovascular ultrasound imaging in the care of patients and in research. ASE’s membership is open to all echo enthusiasts, so this conference is designed to engage a diverse audience. Participants with a wide variety of interests and expertise in cardiovascular imaging will find sessions that meet their needs and help improve their practice. High quality lectures, debates, case-based presentations, and research poster presentations offer a broad spectrum of educational opportunities. The curriculum is intended to enhance knowledge and performance for adult and pediatric cardiologists, cardiothoracic and vascular surgeons, cardiac anesthesiologists, cardiac sonographers, and emergency and critical care physicians, as well as hospitalists, veterinarians, radiologists, research scientists, primary care practitioners, residents and fellows in training, students, advanced practitioners and nurses. Attendees are encouraged to interact with available faculty using the chat feature in the Whova app, on the conference online platform, in the Echo Expo, and also to take advantage of the opportunity to gain new expertise.

INTERACTIVE SESSIONS: ASK QUESTIONS

Once you have downloaded the app, you can use the app to ask questions during most sessions.

1. Open the ASE 2024 Scientific Sessions Event.
2. Select “Agenda” on the bottom toolbar to access the sessions.
3. Select the Session you are attending.
4. Select the Q&A box.
5. Enter your question and tap Send in the bottom right corner of the screen.

DISCLAIMER

The information provided during this CME/MOC activity is for continuing education purposes only, and is not meant to substitute for the independent medical judgment of a healthcare provider relative to the diagnosis and treatment options of a specific patient’s condition.

COMMERCIAL SUPPORT DISCLOSURE STATEMENT

Educational Grants

This activity is supported in part by unrestricted educational grants from: Abbott, AstraZeneca, Biosense, Bristol Myers Squibb, Edwards, Inteleos, Lantheus, Medtronic, and Pfizer. ShowCASE is supported in part by an unrestricted educational grant provided by Elsevier.

In-Kind Donations

This activity is supported in part by in-kind donations. These donations are for the following activities and purposes. Philips, CV Ultrasound machine and application specialist for support of the DIY workshops, Pediatric Learning Labs, Scan with Me Session, and laptop computers for the Pediatric Learning Labs; Siemens Healthineers, CV Ultrasound machine and application specialist for support of the DIY workshops and Scan with Me session; Canon, CV Ultrasound machine and application specialist for support of the DIY sessions; GE Healthcare, CV Ultrasound machine and application specialist for DIY workshops, Pediatric Learning Labs, Scan with Me session, and laptop computers for the Pediatric Learning Labs.

CONFERENCE OBJECTIVES

This program has been designed to allow attendees to access a broad overview of topics, or delve deeply into one or two topics. In addition, particular care has been taken to incorporate ASE guidelines into talks to demonstrate how and why they should be applied in your daily practice. Upon completion of this course, participants should be better able to:

1. Demonstrate improved performance regarding the foundational elements of cardiac and vascular ultrasound.
2. Examine emerging and innovative technologies in the application of echocardiography and vascular ultrasound.
3. Recognize the role of multimodality imaging in detective and directing therapies for multiple different forms
of cardiomyopathy, including hypertrophic, infiltrative (amyloid), valvular, ischemic, familial, metabolic, systemic, infectious, etc.

4. Demonstrate an understanding of the quality performance of echocardiographic and vascular imaging modalities in a variety of settings and patient presentations.

5. Recognize the advantages and importance of quality in cardiac POCUS and Critical Care Echocardiography.

6. Discuss key elements of recent ASE Guidelines.

7. Discuss the important elements of transesophageal echocardiography in the perioperative and interventional procedural settings.

8. Describe the key applications of echocardiography, including advanced modalities and quantification, in pediatric and adult patients with congenital heart disease.

9. Summarize the future of imaging of children and adults with heart disease including innovations in imaging technology, artificial intelligence, therapeutic ultrasound, and novel applications of existing technology.

10. Apply hands-on practical experience to scanning and/or interpretation.

**ACCREDITATION AND DESIGNATION**

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

ASE designates this live, in-person activity for a maximum of 20.75 **AMA PRA Category 1 Credit(s)™**, and the virtual registration for a maximum of 19.5 **AMA PRA Category 1 Credit(s)™**. Participants 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 a maximum of 20.75 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program, the American Board of Pediatrics (ABP) MOC program, and/or the American Board of Anesthesiology’s (ABA) Maintenance of Certification in Anesthesiology Program® or MOCA 2.0®. It is ASE’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM and ABP MOC points and/or ABA MOCA 2.0®. Participants should claim only the credit commensurate with the extent of their participation in the activity. Physicians will earn MOC and/or MOCA 2.0 points equivalent to the amount of CME credits claimed for the activity.

The ACCME and the European Board of Accreditation in Cardiology (EBAC) recognize each other’s accreditation systems as substantially equivalent. To obtain EBAC credit for participation in this activity, submit evidence of participation directly to EBAC (ebac-cme.org).

The European Union of Medical Specialists (UEMS)-European Accreditation Council for Continuing Medical Education (EACCME) has an agreement of mutual recognition of CME credit with the American Medical Association (AMA). European physicians interested in converting **AMA PRA Category 1 Credit™** into European CME credit (ECMEC) should contact the UEMS (uems.eu).

The National Board of Echocardiography™ (NBE) requires 15 hours of echocardiography specific CME for RePTE® recertification. This in-person activity contains 20.75 **AMA PRA Category 1 Credits™** that can be used toward recertification requirements.

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 this educational activity may meet the CME requirement for Intersocietal Accreditation Commission (IAC) Echocardiography accreditation. Per IAC standards, at least 15 hours of CME relevant to echocardiography are required over a period of three years.

This activity is 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.

**DISCLOSURE**

ASE is committed to ensuring that its educational mission, and all accredited continuing educational programs provide a protected space to learn, teach, and engage in scientific discourse free from influence from organizations that may have an incentive to insert commercial bias into education.

While a monetary or professional affiliation with an ineligible company does not necessarily influence a speaker’s presentation, the Standards for Integrity and Independence in Accredited Continuing Education and policies of the ACCME require that all financial relationships with ineligible companies* be identified and mitigated prior to engaging in an accredited CE activity. In accordance with these policies, ASE actively identified relevant financial relationships between faculty in control of this accredited CE activity and ineligible companies and implemented mitigation strategies to eliminate any potential influence from persons or organizations that may have an incentive to insert commercial bias in this activity. (*Companies that are ineligible to be accredited in the ACCME System ("ineligible companies") are those whose primary business is producing, marketing, selling, reselling, or distributing healthcare products used by or on patients.) Disclosure information is referenced and can be found beginning on page 18 of this program.
ASE is committed to ensuring that its educational mission, and all accredited continuing educational programs provide a protected space to learn, teach, and engage in scientific discourse free from influence from organizations that may have an incentive to insert commercial bias into education.

It is the policy of ASE to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All speakers at the 35th Annual Scientific Sessions have agreed to the following:

- Present recommendations for patient care that are based on current science, evidence, and clinical reasoning, while giving a fair and balanced view of diagnostic and therapeutic options.
- Refer, report, or use in accredited education scientific research in support or justification of a patient care recommendation that conforms to the generally accepted standards of experimental design, data collection, analysis, and interpretation.
- Not present content that advocates for unscientific approaches to diagnosis or therapy, or if the education promotes recommendations, treatment, or manners of practicing healthcare that are determined to have risks or dangers that outweigh the benefits or are known to be ineffective in the treatment of patients.
- Not to accept any payment or reimbursement for their content from any commercial interests.
- Provide content material that is balanced information on all available options for pharmaceutical identification, trade name of drugs and devices to avoid the appearance of commercial bias.
- Disclose to the program audience when products/services are not labeled for the use under discussion or when the products are still under investigation.
- Comply with patient confidentiality requirements as outlined in the Health Insurance Portability and Accountability Act (HIPAA), by removing all patient and hospital identifiers from all content materials, including presentation slides and handouts.

While a monetary or professional affiliation with an ineligible company does not necessarily influence a speaker’s presentation, the Standards for Integrity and Independence in Accredited Continuing Education and policies of the ACCME requires that all financial relationships with ineligible companies be identified and mitigated prior to engaging in an accredited CE activity. In accordance with these policies, ASE actively identified relevant financial relationships between faculty in control of this accredited CE activity and ineligible companies and implemented mitigation strategies to eliminate any potential influence from persons or organizations that may have an incentive to insert commercial bias in this activity. Disclosure information is referenced below.

ACCME defines an ineligible company as an entity whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. For specific examples of ineligible companies visit accme.org/standards. ACCME does not consider providers of clinical services directly to patients to be a commercial interest.

RELATIONSHIP CODES

1. SPEAKER/SPEAKERS’ BUREAU
2. CONSULTANT, ADVISOR
3. STOCKHOLDER (NOT INCLUDING DIVERSIFIED MUTUAL FUNDS)
4. RESEARCH FUNDING/SUPPORT (INCLUDES PRINCIPAL OR NAMED INVESTIGATOR EVEN IF MANAGED BY INSTITUTION)
5. COMPANY RELATIONSHIP (OWNER, EMPLOYEE)
6. ROYALTIES/PATENT BENEFICIARY
7. OTHER (EDUCATOR OR HONORARIA)
ASE 2024 SPEAKER DISCLOSURES

Acevedo, J. .................. Bracco Diagnostics (2); Philips Healthcare (1)
Aday, A. .......................... Aeglea, CRC Oncology, OptumCare (2)
Addetta, K. .......................... Pfizer (4)
Ajmone Marsan, N. ..................... GE Healthcare, Philips Ultrasound, Abbott Vascular, Pfizer (1)
Armour, A. ........................... Education for the Sonographic Professional (ESP), Inc. (1)
Banchs, J. ............................. Bracco (5)
Bierig, M. ............................. Medtronic (5)
Billick, K. ............................. Lantheus (2)
Bucciarelli-Ducci, C. ........ Circle Cardiovascular Imaging, GE Healthcare, Siemens Healthineers (1); Bayer (2)
Cavalcante, J. ......................... 4C Medical, Abbott Structural, Alleviant, Anteris, Boston Scientific, Edwards Lifesciences, JenaValve, JC Medical, Medtronic, Novo Nordisk, VDyne, Zoll (2)
Chadderdon, S. ....................... Edwards Lifescience, Medtronic, Siemens Healthineers (2); GE Healthcare (4)
Chen, T. .............................. Intrinsic Imaging (2)
Cuddy, S. ............................ Pfizer (1); Astra Zeneca, Novo Nordisk (2)
DeCara, J. ............................ UpToDate (6)
Douglas, P. .......................... Caption Health, HeartFlow (4); UpToDate (7)
Dversdal, R. .......................... Vave Health (5)
Estep, J. .............................. Abbott, Bioventrix, Getinge, Zoll (2)
Ferencik, M. .......................... BioMarin, Elucid, HeartFlow, Siemens Healthineers (2); Elucid (3)
Fleishman, C. .......................... B. Braun Melsungen AG (2)
Garbi, M. .............................. Edwards Lifescience (1), GSK (4)
Gentile, B. ............................. Boston Scientific (2)
Gillam, L. .............................. Abbott, Edwards, Medtronic, Philips (2)
Gutierrez-Fajardo, P. .......................... Asorarma, Sanofi (1)
Hamid, N. ............................. 4C Medical, Abbott, AMX, Edwards Lifesciences, Philips, GE, Vdye WL Gore (2)
Hill, G. ............................... Ultragenyx (2)
Hill, J. ............................... Philips Healthcare (1)
Ho, E. ............................... Abbott, Edwards, GE Healthcare, Medtronic, Neochord, Half Moon, VDyne, Valgen, Anteris, Shifamed (2); Philips (4)
Jain, R. ............................... Medtronic (2), GE Healthcare (4)
Jankowski, M. ........................ Briston Myers Squibb (1); Caption Health, Echo IQ (2)
Johnson, B. ........................... Medtronic (2)
Jone, P. ............................... GE Healthcare (2)
Kelly, N. .............................. Abbott, Boston Scientific (1)
Khalique, O. ........................... Philips, Siemens Healthineers (2)
Khouri, M. ............................. Alylam Pharmaceuticals, BridgeBio Pharma (1), Ionis / Astra Zeneca (4)
Klein, A. .............................. Pfizer (2); Cardiol Therapeutics (4); Kiniksa (2,4)
Kraushaar, M. .............................. Epsilon Imaging (1)
Martinez, M. ............................. Brisol Myers Squibb, Cytokinetics (2)
McCarty, S. ............................. Humacyte Inc (2)
McNamara, P. ........................... Abbott (1); Aspect Imaging (2)
Michos, E. ............................. Amgen, AstraZeneca, Edwards Lifescience, Medtronic, Merck, New Amsterdam, Novartis, Pfizer (2)
Mitchell, C. ........................... Acoustic Range Estimates (2); W. L. Gore & Associates (4)
Miyasaka, R. ........................... Abbott (1)
Morris, S. ............................... Aytu Biopharma (2)
Narang, A. ............................. Abbott Laboratories, Bristol Meyers Squib, Edwards Lifesciences (1)
Nikravan, S. ........................... Fieldworks, Philips (2)
Oh, J. ............................... Anumana (6); Medtronic (2); REDNVIa (4)
Orsinelli, D. ............................. Siemens Healthineers (2); Abbott, Medtronic (4)
Pandian, N. ............................. Bristol Meyers Squib, Lantheus Medical (1)
Pannebianco, N. ........................ Butterfgy Network Inc (4)
Park, M. ............................... Lantheus Medical Imaging (1)
Parker, M. .............................. Agfa Healthcare, Bracco Diagnostics (2)
Parthiban, A. ........................... Edwards Life Sciences (4)
Parwani, P. ............................. Astra Zeneca, Medtronic (2)
Pellikka, P. ............................. Edwards Lifesciences, GE Healthcare, Ultronics Ltd (4)
Perry, R. .............................. GE Healthcare, Philips Medical, TOMTEC Imaging systems (1)
Pibarot, P. .............................. Edwards Lifesciences, Medtronic, Pi-Cardia (4)
Powell, A. ............................. Siemens Medical Solutions USA, Inc. (2)
Pressman, G. ............................. Jazz Pharmaceuticals (2)
Puthumana, J. ........................... Abbott Structural, Edwards Lifesciences (1)
Rigolin, V. ............................. Amgen, Edwards Lifesciences, Regeneron (3)
Robinson, J. ............................ Siemens Medical Solutions USA, Inc. (2); Doximity (3)
Safi, L. ............................... Abbott Structural, Medterrify (1)
Sanket, S. ............................... GE Healthcare (1)
Saric, M. ............................... Abbott, Medtronic (1)
Scherer, M. ............................. Abbott, Boston Scientific, Edwards Lifescience, HeartFlow, Philips, Siemens Healthineers (1)
Schutzer, C. ........................... Global Ultrasound Institute, Vave Health Inc (2)
Shah, D. ............................... Guerterfy (4); Kiniksa (1)
Shook, D. ............................... Baylis, Edwards Lifesciences (1, 7); UpToDate (7)
Smith, R. .............................. Medtronic, Edwards LifeScience (1); Artivion (4)
Song, H. ............................... Medtronic (2)

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Springston, C.................................Caption Inc (2)

Strom, J...........................Edwards Lifesciences, Bracco Diagnostics,
General Electric Healthcare (2); Philips Healthcare,
Ultromics (2, 4); HeartSciences, Anumana,
EchoIQ, HeartSciences (4)

Swaminathan, M...............................US2.AI (2)

Thomas, J.............................Abbott, Cardiol Therapeutics, GE Healthcare (2)

Thompson, T...............................................Lanterfly (1)

Tison, G..............................Prolaio, Viz ai (2)

Tretter, J.....................................Cara Medical Ltd. (2)

Tsang, W.................................Philips Healthcare, Siemens (4)

Vainrib, A...............................Microinterventional Devices (2)

Vemulapalli, S..............Astra Zeneca, Boehringer-Ingelheim, Medtronic (2);
Cytokinetics, Edwards Lifesciences (4)

Zahr, F..............................Edwards, Medtronic, Philips (2)

NO FINANCIAL RELATIONSHIPS

Abraham, T.; Al-Kazaz, M.; Altman, C.; Anand, V.; Anderson, B.;
Aurgemma, G.; Ayres, N.; Badano, L.; Balasubramanian, S.; Bandi, R.;
Barac, A.; Barberato, S; Barker, P.; Belani, K.; Betz, J.; Boegel, K;
Borchers, H.; Border, W.; Braden, J.; Brady, M.; Bremer, M.;
Brook, M.; Burkett, D.; Campia, U.; Canessa, R.; Cantinott, M.;
Cassidy, C; Chamsi-Pasha, M.; Clouse, M.; Cohen, M.; Collins, K.;
Cordio, M.; Coté, E.; Coutinho, T.; Covas, P.; Davidson, B.; Davis, A.;
Delgado, V.; Deweert, K.; Dick, S.; Dickey, J.; DiMaria, M.; Doan, T.;
Dobson, L.; Dolgner, S.; Donal, E.; Donato Magno, J.; Donofrio, M;
Durham, A.; Edwardsen, T.; Eidem, B.; Emanimia, R.; Enger, N.;
Erickson, S.; Escudero, M.; Fajardo, P.; Faloye, A.; Farez, B.; Faza, N.;
Feigenbaum, H.; Ferrari, V.; Fields, C.; Fleishman, C.; Forsha, D.;
Frye, C.; Garcia-Sayan, E.; Georges, M.; Ghelani, S.; Gibson, K.;
Gill, E.; Gloria Supe, M.; Goudar, S.; Govind, S.; Graziano Sanchez, P.;
Lozanski, L.; Lu, J.; Lui, G.; Luis Fuentes, V.; Mackensen, G.;
Madiro, E.; Maganti, K.; Mankad, S.; Marcus, R.; Maskatia, S.;
Mayer, S.; McIlvain, E.; Mehl, B.; Mercandetti, J.; Mercer-Rosa, L.;
Merdad, A.; Monahan, E.; Montagueau, A.; Moon-Grady, A.; Morris, S.;
Narvaez-Guerra, O.; Ng, J.; Niaz, T.; Nicoara, A.; Norris, M.; O’Leary, P.;
Olivieri, L.; Ong, G.; Ordovas, K.; Orsinelli, M.; O’Sullivan, L.; Pai
Cole, S.; Parra, D.; Patel, A.; Pellett, A.; Pernetz, M.; Perry, H.; Pico,
K.; Pizarro, C.; Plana Gomez, J.; Poh, K.; Potter, B.; Prado, A.; Printz,
B.; Puchalski, M.; Quader, N.; Rabischoffsky, A.; Rahde Bischoff, A.;
Ramlonag, S.; Rashedi, N.; Reddy, Y.; Richards, B.; Riga, N.; Roberts,
B.; Rychik, J.; Sachdeva, R.; Sade, L.; Sadeghpaour, A.; Sanborn,
D.; Sanchez Mejia, A.; Sato, K.; Schaaf, J.; Scherrer-Crosbie,
M.; Schwaeegler, B.; Sebag, I.; Sebag, I.; Sengupta, P.; Sengupta,
S.; Senser, E.; Seo, Y.; Shah, S.; Shamoun, F.; Sharma, A.; Shea,
E.; Sheehan, J.; Sheu, R.; Shu, X.; Singh, G.; Slesnick, T.; Silvnick,
J.; Soeryo Kuncoro, A.; Soni-Patel, N.; Springfield, C.; Sperto, F.;
Young, L.; Taub, C.; Taylor, A.; Thaden, J.; Thamman, R.; Thorson,
K.; Tierney, S.; Tworetzky, W.; Umland, L.; Vakili, A.; Vazquez Ortiz,
Z.; Vieira, M.; Vilner, A.; Visser, L.; Voges, I.; Voigt, J.; Vorsanger,
Wiley, B.; Wilson, H.; Woo, A.; Xu, B.; Yaman, M.; Young, L.; Yucel,
E.; Zimmerman, K.; Zoghbi, W
Echo Your Passion. Apply for FASE!

Echo practitioners of all specialty types who demonstrate proficiency and dedication to the field of cardiovascular ultrasound may apply to be a Fellow of the American Society of Echocardiography (FASE). The FASE credential recognizes dedicated ASE members with an extraordinary commitment to the field of cardiovascular ultrasound.

Visit the ASE Headquarters Booth #654 to learn more about applying for FASE.

Alexandra Gardner, BS, ACS, RDCS, FASE
Sarasota Memorial Health Care System

José L. Díaz-Gómez, MD, FCCM, FASE, NCC (UCNS)
Baylor St. Luke’s Medical Center

Pei-Ni Jone, MD, FASE
Lurie Children’s Hospital

Muhammed Saric, MD, PhD, FASE
New York University

Lucy M. Safi, DO, FASE
Mount Sinai

Being a FASE has allowed me to meet so many highly intelligent medical professionals from all over to collaborate with and expand my knowledge of the field.

The FASE credential allows me to collaborate effectively in critical care echocardiography (CCE)/POCUS with the most diverse and talented colleagues representing many medical societies. A distinct blend between critical care medicine and CCE/POCUS!

As a FASE member, I am committed to the innovation in the field of ultrasound and love collaborating with colleagues around the world to advance the field of echocardiography.

Being a FASE allows me to learn from and share my knowledge of the amazing world of 3D echocardiography with my colleagues from around the world.

Being a FASE highlights my commitment to education and quality in the field of echocardiography. As a FASE I am a member of a community that focuses on education, quality and shows commitment in the field of echocardiography.

FASE Lounge is in the Echo Expo

Saturday, June 15 ................................. 10:00 AM – 5:30 PM
Sunday, June 16 .................................. 10:00 AM – 2:00 PM

Learn more at ASEcho.org/FASE
# Schedule at a Glance

**Friday, June 14th**

<table>
<thead>
<tr>
<th>Session Time</th>
<th>Oregon 201</th>
<th>Oregon 202</th>
<th>Oregon 203</th>
<th>Oregon 204</th>
<th>A106</th>
<th>DIY Acquisition* B110-112</th>
<th>Echo Expo Poster Area</th>
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<td>12:00 – 1:00 PM</td>
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**FRIDAY**

### Registration Open 10:00 AM – 5:30 PM | Echo Expo Open 3:30 – 5:30 PM

- **ACHD (A)**
- **CIRCULATION (C)**
- **CRITICAL CARE (CC)**
- **CAREER DEVELOPMENT (CD)**
- **GUIDELINES (G)**
- **INNOVATION/TECHNOLOGY (IT)**
- **INTERVENTIONAL ECHO (IE)**
- **ISCHEMIA/MYOCARDIUM (IM)**
- **PEDIATRIC/CONGENITAL (PC)**
- **PERIOPERATIVE (P)**
- **PRACTICE MANAGEMENT (PM)**
- **RESEARCH (R)**
- **SPECIAL SESSIONS (S)**

Schedule subject to change. For detailed information, please download Whova, the ASE Courses app.

*Ticketed event. Advance tickets required.*
FRIDAY, JUNE 14 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

ShowCASE COMPETITION
(Supported by Elsevier)
12:30 – 2:00 PM
OREGON 201

This exciting 90-minute session, chaired by CASE Editor-in-Chief Vincent L. Sorrell, MD, FASE, and CASE Associate Editor Chittur A. Sivaram, MD, FASE, will feature authors representing the five best CASEs published in 2023. These five finalists will present their CASE for everyone to listen and learn about, then CASE’s Editorial leadership team will facilitate a brief Q&A session to expand further on the CASE report presentations. The audience will have a chance to ask questions and participate in the process of which one should be crowned the CASE of the Year. For even more educational excitement, the MACH-1 Sonographer Presentations will allow sonographers to highlight their Clinical Case Posters in a fun and succinct Rapid-Fire event aimed at enticing you to visit their scholarly work. Please see the Whova App for details on the presentations.

GARDIN LECTURE
2:15 – 3:15 PM
OREGON 201

ASE is proud to have Jagat Narula, MD, PhD, President-Elect of the World Heart Federation and Executive Vice President and Chief Academic Officer at UTHealth Houston, deliver the 6th Annual Gardin Lecture, “A Quest for Eliminating Heart Disease Globally: Lessons Learned from Noninvasive Imaging” on Friday, June 14. This lectureship was established in honor of ASE Past President and 1st Scientific Sessions Chair, Julius Gardin, MD, FASE. Dr. Gardin mentored numerous physicians and sonographers and this lecture series supports his passion for education by providing funding to bring a luminary speaker to the Scientific Sessions every year. ASE is a proud member of the World Heart Federation.

PRESIDENT’S RECEPTION
3:30 – 5:30 PM
ECHO EXPO

All attendees are invited to celebrate ASE 2024 at the President’s Reception, hosted by ASE President, Benjamin Eidem, MD, FASE. This is an opportunity to network with colleagues and friends while learning more about the newest equipment and services in the cardiovascular field. ASE Specialty Interest Groups (SIGs) will be gathering in the Science & Technology Theater spaces during the reception. Over 40 exhibitors will be showcasing their products. Live entertainment from area musicians will set the mood. Complimentary beer and wine, and light hors d’oeuvres will be available at many stations throughout the hall. Admission is included in your registration fee, and guest tickets can be purchased at the ASE Registration Desk in Pre-Function C Lobby.

ASE 2024 PRESIDENT’S CIRCLE (PC)
POSTER SESSION
3:30 – 5:30 PM

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Contrast Echocardiography</td>
<td>PC-01 — PC-03</td>
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<tr>
<td>Echocardiography in SOE / Arrhythmias / Atrial Function</td>
<td>PC-04</td>
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<tr>
<td>Ventricular Function / Myocardial Mechanics</td>
<td>PC-05 — PC-06</td>
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<tr>
<td>Pediatric Congenital Heart Disease</td>
<td>PC-07 — PC-10</td>
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<tr>
<td>Quality / Practice Improvement / Education</td>
<td>PC-11 and PC-13 — PC-14</td>
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<tr>
<td>Value of Echocardiography (Quality &amp; Cost) / Outcomes / Comparative Effectiveness</td>
<td>PC-12</td>
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<tr>
<td>Valvular Heart Disease: Aortic</td>
<td>PC-15 and PC-17 — PC-18</td>
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<tr>
<td>Ventricular Function / Myocardial Mechanics</td>
<td>PC-16</td>
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<tr>
<td>Valvular Heart Disease: Mitral</td>
<td>PC-19 — PC-22</td>
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<tr>
<td>Valvular Heart Disease: Tricuspid &amp; Pulmonic</td>
<td>PC-23 — PC-24</td>
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SATELLITE SYMPOSIA

These sessions are not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

6:00 – 7:30 PM
OREGON 203

Echocardiographic Characteristics of Transthyretin Cardiac Amyloidosis: A Comprehensive Review with Clinical Cases

Engage in a scientifically rigorous echocardiography masterclass led by distinguished experts, featuring a live scan of a patient with Transthyretin Cardiac Amyloidosis (ATTR-CM). This session aims to showcase the key echo features suggestive of ATTR-CM. Attendees will acquire actionable knowledge on the importance of early detection through guided case-based discussions.

Presented by Pfizer

#ASE2024 23
FRIDAY, JUNE 14 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

6:00 – 8:30 PM  PORTLAND BALLROOM

Advanced Imaging for TriClip™ G4 TEER System

Join us for an interactive, dinner symposium where we will learn more about advanced imaging techniques for the recently, US-approved TriClip™ G4 TEER system! In support by Philips, you will also get hands-on training with 3D ICE simulators and EPIQ ultrasound machines. Register now!

Presented by Abbott

6:00 – 8:30 PM  OREGON 202

Vivid™ Learning Academy Presents

Mastering Strain: Insights from Expert-led Panel and Workshop

- Hear from clinical experts how strain is integrated in different cardiac pathologies.
- Explore Strain & 3D Imaging on real case examples.
- Compare the superiority of Strain imaging vs. Ejection Fraction.
- Understand how strain results impact patient treatments.
- Discover methods for monitoring disease progress over time.

Presented by GE HealthCare

6:00 – 8:30 PM  HYATT REGENCY PORTLAND, DESCHUTES BALLROOM B & C

ACUSON Origin Intuitive AI: The Genius is in the Details

Join us for an evening event with industry leaders and learn how real-time AI is revolutionizing cardiology. Discover the power of ACUSON Origin’s suite of AI tools that enhance efficiency in echocardiography which will be illustrated using live scanning.

Presented by Siemens Healthineers
The following Awards and Grants are supported by the ASE Foundation. Charitable donations are fostering the next generation of cardiovascular ultrasound professionals.

2024 ASE FOUNDATION TOP INVESTIGATORS

The presentation of original research from around the world is an integral component of ASE’s annual meeting. A special group of early career abstract presenters were selected by the Abstract Chairs based on the scientific merit of their research projects and were awarded travel grants from the Foundation to offset their Scientific Sessions travel expenses. The Alan S. Pearlman Research Award, established to honor Dr. Pearlman’s ten years of service as JASE Editor-in-Chief and supported by a grant to the ASE Foundation by Elsevier, is an annual award of $1,000 given to the highest scoring early career investigator in this group.

The Michael H. Picard Research Award, established to honor Dr. Picard’s 5 years of service as JASE Editor in Chief and supported by a grant to the ASE Foundation by Elsevier, is an annual award of $1,000 given to the highest scoring early career investigator in this group.

2024 Investigators

- Luca Cristin, MD, University of California San Francisco, San Francisco, CA – Alan S. Pearlman Research Awardee
- Lakshay Chopra, MD, Icahn School of Medicine at Mount Sinai Beth Israel, New York, NY – Michael H. Picard Research Awardee
- Basharat Ahmad, MD, Aultman Hospital, Canton, OH
- Mohamad Albadaljabar, MD, Mayo Clinic, Rochester, MN
- Nour Beydoun, MD, Northwestern University, Chicago, IL
- Mireille Bherer, BS, Institut universitaire de cardiologie et de pneumologie de Québec – Université Laval/Quebec Heart and Lung Institute, Québec, QC, Canada
- M. Bowling, MD, Vanderbilt University Medical Center, Nashville, TN
- Pranav Chandrashekar, MD, Oregon Health and Science University, Portland, OR
- Wei-Tao Chang, National Taiwan University & TACS-Alliance Research Center, Taipei
- Enrique Coca Frias, BS, Oregon Health and Science University, Beaverton, OR
- Son Duong, MD, Icahn School of Medicine at Mount Sinai, New York, NY
- Jeremiah Haines, DO, Medical College of Wisconsin, Milwaukee, WI
- Lyndsey Hunter-Adamson, MD, Stanford University at Lucile Packard Children’s Hospital, Palo Alto, CA
- Kyle Kapcin, DO, Allegheny Health Network, Pittsburgh, PA
- Amogh Karnik, MD, Northwestern Memorial Hospital, Chicago, IL
- Jim Lu, BA, Johns Hopkins University School of MedicineBaltimore, MD
- Thalia Melamed, Queen Mary University of London Faculty of Medicine and Dentistry, London
- Heidi Messiha, MD, Medical College of Wisconsin, Wauwatosa, WI
- Divyanshu Mohananey, MD, Medical College of Wisconsin, Mequon, WI
- Motisola Mutema, MD, The Brooklyn Hospital Center, Brooklyn, NY
- Hinduja Nallamala, DO, Aurora Cardiovascular and Thoracic Services, Aurora Sinai/Aurora St. Luke’s Medical Centers, Aurora Health Care, Milwaukee, WI
- Daniel O’Meara, MD, Emory University, Atlanta, GA
- Matthew Peters, MD, Aurora Cardiovascular and Thoracic Services, Aurora Sinai/Aurora St. Luke’s Medical Centers, Aurora Health Care, Milwaukee, WI
- Mitchell Pleasure, BA, NYU Grossman School of Medicine, New York, NY
- Chase Poulson, BS, Campbell University, Lillington, NC
- Anushree Puttur, MD, Allegheny General Hospital, Pittsburgh, PA
- Ramya Ramachandra, MD, Stanford University School of Medicine, Palo Alto, CA
- Jeffrey Shuler, MD, University of Colorado, Children’s Hospital Colorado, Aurora, CO
- Rasmus Sindre, University of Bergen, Bergen
- Carolina Stangenhaus, Unidade de Ecocardiografia, Instituto do Coração, Hospital das Clínicas HCFMUSP, Faculdade de Medicina, Universidade de São Paulo
- Lionel Tastet, PhD, University of California San Francisco, San Francisco, CA
- Benjamin Terhaar, Cornell University College of Veterinary Medicine, Ithaca, NY
- Juan Vasquez-Rodriguez, MD, Fundacion Cardiovascular de Colombia, Bogota D.C

2024 ALAN D. WAGGONER STUDENT SCHOLARSHIP AWARDS

The Alan D. Waggoner Student Scholarship program was established in 2001 in recognition of Mr. Waggoner’s professional achievements and service to ASE. Funding from the ASE Foundation provides a limited number of $1,000 scholarship awards for students enrolled in a cardiac ultrasound program accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in the United States or by an equivalent Canadian or external ultrasound program. Also included with each scholarship award is complimentary registration for the recipient to attend the Scientific Sessions and a $1,000 travel grant to support their travel expenses. Recipients were chosen from a large number of students who were nominated by their program directors. The 2024 scholarship award recipients will be recognized during ASE’s Annual Awards Presentation and Edler Lecture on Saturday, June 15, in Portland 251-252.

2024 Scholarship Recipients

- Ann Achtien – Milwaukee Area Technical College, Milwaukee, Wisconsin
- LaVang Bui – Prisma Health Cardiovascular Technology, Greenville, SC
- Andrea Burbey – Aurora St. Luke’s Medical Center School of Diagnostic Medical Sonography, Milwaukee, WI
- Mitchell Pleasure, BA, NYU Grossman School of Medicine, New York, NY
- Chase Poulson, BS, Campbell University, Lillington, NC
- Anushree Puttur, MD, Allegheny General Hospital, Pittsburgh, PA
- Ramya Ramachandra, MD, Stanford University School of Medicine, Palo Alto, CA
- Jeffrey Shuler, MD, University of Colorado, Children’s Hospital Colorado, Aurora, CO
- Rasmus Sindre, University of Bergen, Bergen
- Carolina Stangenhaus, Unidade de Ecocardiografia, Instituto do Coração, Hospital das Clínicas HCFMUSP, Faculdade de Medicina, Universidade de São Paulo
- Lionel Tastet, PhD, University of California San Francisco, San Francisco, CA
- Benjamin Terhaar, Cornell University College of Veterinary Medicine, Ithaca, NY
- Juan Vasquez-Rodriguez, MD, Fundacion Cardiovascular de Colombia, Bogota D.C
The ASE Foundation sponsors Council Travel Grant Awards to fellows, trainees, and sonographers to fund their attendance at the Scientific Sessions. These travel grants are part of an ongoing effort by the Foundation, with the assistance of the Council Steering Committees, to encourage trainees in cardiovascular specialties to focus on the respective echocardiography sub-specialty. In addition, the Council Steering Committees hope to provide interested fellows with a deeper understanding of the imaging field and facilitate the development of meaningful mentoring opportunities for trainees with established imaging faculty.

Cardiovascular Sonography Council Travel Grant Awards
- Gina Quill, The University of Auckland, Auckland, New Zealand
- Jacqueline Wheatley, DMS, RDMS, FASE, Mohawk College, Hamilton, ON
- Jon Owensby, ACS, RDMS, Duke University Medical Center, Durham, NC

Circulation & Vascular Ultrasound Council Travel Grant Awards
- Abhishek Gami, Johns Hopkins University School of Medicine, Baltimore, MD
- Sae Jang, University of Pittsburgh Medical Center, Pittsburgh, PA
- Lijun Qian, MD, PhD, The first affiliated hospital of Nanjing Medical University, Nanjing, Jiangsu

Critical Care Echocardiography Council Travel Grant Awards
- Kevin Buda, Hennepin County Medical Center, Minneapolis, MN
- Jerry Fan, Baylor Scott & White Temple, Temple, TX

Interventional Echocardiography Council Travel Grant Awards
- Hanyuan Shi, MD, Dartmouth Hitchcock Medical Center, Hanover, NH
- Carlo Mannina, MD, Icahn School of Medicine at Mount Sinai, New York, NY
- Maxine Tang, MD, MS, University of Chicago Medicine, Chicago, IL

Pediatric & Congenital Heart Disease Council Travel Grant Awards
- Hannah Davidson, MBBS, University of Alberta, Stollery Children’s Hospital, Edmonton, AB
- Mounica Rao, MD, Baylor College of Medicine/Texas Children’s Hospital, Houston, TX
- Lesje DeRose, MD, UCSF, San Francisco, CA

Perioperative Echocardiography Council Travel Grant Awards
- Chad Kosanovich, UPMC Heart Vascular Institute, Sewickley, PA
- John Yin, University of Pittsburgh Medical Center, Pittsburgh, PA
- Michael Chang, NewYork-Presbyterian Hospital- Weill Cornell Medical Center, Fresh Meadows, NY
New from IAC Echocardiography

Recognizing the critical role of facilities providing care to patients with congenital heart disease who transition their care from pediatric cardiology to adult cardiology services, IAC is pleased to announce a new testing area offered by IAC Echocardiography — Adult Congenital Transthoracic Echocardiography.

IAC provides a unique approach to accreditation and is leading the field with innovative, customized solutions for your facility. IAC provides quality improvement-focused solutions such as the IAC QI Self-Assessment Tool, to help facilities optimize processes and improve patient safety and outcomes.

In addition to the new testing area for Adult Congenital Transthoracic, IAC offers accreditation specific to Echocardiography in the following areas:

- Adult Transthoracic
- Adult Transesophageal
- Adult Stress
- Adult Congenital Transthoracic
- Pediatric Transthoracic
- Pediatric Transesophageal
- Fetal
- Perioperative
- Transesophageal

Congratulations to the 2024 IAC Milestone Recipients

Facilities that have demonstrated a continued commitment to patient care by achieving IAC Echocardiography accreditation for 20 and 25 continuous years are recognized with a special milestone recognition award. View the recipient list at www.intersocietal.org/echo-milestone.

Visit IAC at ASE 2024
(Booth # 436) or visit
intersocietal.org/echo.
## Schedule at a Glance

**Saturday, June 15th**  
**Sonographer Career Day**

**Registration Open 6:30 AM – 6:00 PM | Echo Expo Open 10:00 AM – 5:30 PM**

<table>
<thead>
<tr>
<th>Session Time</th>
<th>Portland 251-252</th>
<th>Oregon 201</th>
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<td>State of ASE, 2024 Awards Presentation, FASE, Leadership Academy, and Membership Ambassador Recognition, Incoming President’s Address, and 35th Annual Edler Lecture by Stephen Little, MD, FASE – Portland 251-252</td>
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<td>Refreshment Break: Visit Echo Expo &amp; Posters</td>
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<tr>
<td>Chest Pain (ASE/EACVI Joint Session)</td>
<td>Scan with Me: Left Atrial Strain, TTE Tricuspid Valve 3D Image Acquisition, Cropping, Carotid Imaging</td>
<td>Multimodality Imaging for Comprehensive Cardio-Oncology Care</td>
<td>Primary Fix for Primary Mitral Regurgitation</td>
<td>Multimodality Imaging of the Aortic and Neo-Aortic Valve in Congenital Heart Disease: Pearls and Pitfalls</td>
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<td>Moving Beyond LVEF: Echo Guidance in HFrEF</td>
<td>Stuck Between a Rock and a Hard Place (ASE/SASE Joint Session)</td>
<td>Fostering a Secure Workplace (11:45 AM – 12:45 PM)</td>
<td>Mitral Annular Disjunction: Unraveling its Link to Mitral Regurgitation and PVCs (ASE/SCA Joint Session)</td>
<td>Challenging Fetal Cases</td>
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</table>
| Echo Expo  
Science & Technology Theater 1: Lantheus  
Science & Technology Theater 2: Siemens Healthineers |
| **2:00 – 4:00 PM** | **S** | **R** | **R** | **R** | **R** |
| Arthur E. Weyman Young Investigator’s Award Competition and the 25th Feigenbaum Lecture by Shaine Morris, MD, MPH, FASE – Portland 251-252 |
| **4:00 – 5:00 PM** | **R** | **R** | **R** | **R** | **R** |
| Echo Expo  
Science & Technology Theater 1: Bristol Myers Squibb  
Science & Technology Theater 2: Philips Healthcare |
| **5:00 – 6:00 PM** | **A** | **IE** | **IM** | **G** | **CC** |
| Adult Congenital Heart Disease/Pediatric Congenital Heart Disease Jeopardy | General Interventional Echo Cases | Who You Callin’ Thick? (Interactive Game) | Real World Application of ASE Guideline: LVAD | Cutting Edge Care for Pulmonary Embolism |
| **6:30 – 11:00 PM** | **A** | **IE** | **IM** | **G** | **CC** |
| ASE Foundation 15th Annual Research Awards Crystal Gala* |

*Ticketed event. Advance tickets required.

Schedule subject to change. For detailed information, please download Whova, the ASE Courses app.
<table>
<thead>
<tr>
<th>Session Time</th>
<th>A106</th>
<th>A107-109</th>
<th>DIY Acquisition*</th>
<th>Learning Lab*</th>
<th>Echo Expo Poster Area</th>
<th>Echo Expo Science &amp; Technology Theater 1</th>
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<tr>
<td>7:00 – 7:45 AM</td>
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<td>R Abstracts: Cardio-Oncology</td>
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<td>8:00 – 10:00 AM</td>
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<tr>
<td>10:00 – 10:30 AM</td>
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<td>Building the Sonographer Workforce: Challenges and Solutions</td>
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<td>10:30 – 11:30 AM</td>
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<td>Strain Echocardiography (10:30 – 11:20 AM)</td>
<td>3D Chamber and Valve Quantification (10:30 AM – 12:00 PM)</td>
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<td>Extraocular Ultrasound: Looking out of the Traditional Windows</td>
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<td>11:45 AM – 12:30 PM</td>
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<td>Mulligans: Replaying Our Greatest Whiffs (Interactive Game)</td>
<td>Building Your CV (11:30 AM – 12:20 PM)</td>
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<td>12:30 – 2:00 PM</td>
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<td>Rapid Fire Abstract Presentations (12:45 – 1:45 PM)</td>
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<td>Rapid Fire Abstract Presentations (1:00 – 1:45 PM)</td>
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<td>2:00 – 4:00 PM</td>
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<td>3D Echocardiography (2:00 – 2:50 PM)</td>
<td>3D Echocardiography (3:00 – 3:50 PM)</td>
<td>Myocardial Strain Imaging &amp; Interpretation (2:30 – 4:00 PM)</td>
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<td>4:00 – 5:00 PM</td>
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<td>Poster Session 5 (2:00 – 2:45 PM)</td>
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<td>5:00 – 6:00 PM</td>
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<td>Getting the Next Generation Excited About a Career in Echo (4:30 – 5:15 PM)</td>
<td>Pediatric Congenital Heart Disease (5:00 – 5:50 PM)</td>
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<td>Rapid Fire Abstract Presentations (4:00 – 5:00 PM)</td>
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Schedule subject to change. For detailed information, please download Whova, the ASE Courses app.

*Ticketed event. Advance tickets required.
**SPECIAL EVENTS AND NETWORKING OPPORTUNITIES**

**ASEF CARDIOVASCULAR CHALLENGE**

**ASEF BOOTH**

**PRE-FUNCTION C LOBBY**

Compete with your feet and get moving with the ASE Foundation Cardiovascular Challenge. Sign up to participate at the ASEF Booth in the Pre-Function C Lobby, then record your steps taken every day and log them at the booth. The top three steppers will win Amazon gift cards! The person with the most steps overall will receive $200, second place will receive $100, and the person with the third highest step count will receive $75. The winners will be announced on Sunday, June 16, at 1:00 PM in the Echo Expo. Special thanks to our 2024 Cardiovascular Challenge sponsor, Cardiovascular Credentialing International.

**IMAGES FROM THE HEART PHOTOGRAPHS**

Stop by the ASE Foundation Booth area to view breath-taking photographs, captured by ASE members. Many of the images are available to take home with a donation to the Foundation in the photographer’s name.

**STATE OF ASE, AWARDS PRESENTATION, FASE RECOGNITION, INCOMING PRESIDENT’S MESSAGE, AND 35TH ANNUAL EDLER LECTURE**

**8:00 – 10:00 AM**

**PORTLAND 251-252**

Benjamin Eidem, MD, FASE, ASE’s President, will preside over a session to honor our 2024 award winners, new Fellows of ASE (FASE), recognize ASE’s 3rd Cohort Leadership Academy graduates, 2024 Membership Ambassadors, and give an overview of ASE’s accomplishments. Stephen Little, MD, FASE, ASE’s Immediate Past President, will present “Interventional Echocardiography: A New Subspecialty Unfolds” as the 35th Annual Edler Lecture. Dr. Little is John S. Dunn Chair in Clinical Cardiovascular Research and Education, DeBakey Heart & Vascular Center; Program Director, Cardiovascular Disease Fellowship, Houston Methodist Weill Cornell Medical College; Director of Structural Heart for the Houston Methodist Hospital System; Medical Director of the Valve Clinic; and Director of the Cardiovascular Hemodynamics Imaging Laboratory (CHIL), Houston, Texas. His recent research activities and peer-reviewed publications have focused on novel use of 3D echocardiography for the quantification of native and prosthetic valve dysfunction as well as imaging guidance for percutaneous structural heart interventions. Created in 1990, the annual Edler Lecture honors the founder of echocardiography, Dr. Inge Edler. Theodore Abraham, MD, FASE, ASE’s President-Elect, will give his incoming president’s address and share his presidential vision with the audience, along with a surprise announcement!

**LIFETIME ACHIEVEMENT AWARDS**

The ASE Lifetime Achievement Awards recognizes individuals who have had a lifetime of outstanding achievements in the field of cardiovascular ultrasound, and have served as role models through service, research, and teaching. These individuals have a career in cardiovascular ultrasound spanning at least 25 years and are recognized at local, national, and international levels.

**PHYSICIAN LIFETIME ACHIEVEMENT AWARD**

Nancy Ayres, MD, FASE, has been named the 2024 Physician Lifetime Achievement Award recipient. Dr. Ayres is a world-renowned pediatric cardiologist who is known for her expertise and innovative career in the fields of fetal echocardiography and fetal heart disease. For more than three decades, her fetal program at Texas Children’s Hospital has set the standard for advanced prenatal cardiac care and interventions in fetuses with all types of congenital heart disease and actively demonstrates the utility of monitoring the fetal heart during extracardiac fetal surgeries. Dr. Ayres has authored/co-authored over 100 peer-reviewed publications, textbook chapters, and editorials. She has dedicated her time and efforts over her entire career to mentoring and growing the next generation of leaders in ASE. Dr. Ayres is Associate Professor of Pediatrics at Baylor College of Medicine in Houston, TX. She was the Director of both the Non-Invasive Cardiac Imaging Laboratory and the Fetal Cardiac Imaging and Fetal Cardiology program at Texas Children’s Hospital for more than 30 years.

**SONOGRAPHER LIFETIME ACHIEVEMENT AWARD**

Bonita Anderson, MApplSc(Med US), DMU(Cardiac), ACS, AMS, FASE, is the 2024 Sonographer Lifetime Achievement Award recipient. Ms. Anderson has made an exceptional contribution to the education of the echocardiography workforce on a truly global scale. She is frequently an invited speaker at conferences across Asia, Australia, Canada, New Zealand, and the United States. Ms. Anderson has made a significant contribution to ASE through positions on the Board of Directors, the International Relations Advisory Group, and the Membership committee. She is also currently a member of the writing group for the upcoming diastolic function guideline. Ms. Anderson has authored two textbooks, co-founded the first university-based qualification in cardiac ultrasound in Australia, and mentored and encouraged many senior sonographers in Australia to break glass ceilings in clinical, research, and education arenas. She is currently an Advanced Cardiac Scientist at The Prince Charles Hospital and a Clinical Fellow at the School of Clinical Sciences, Faculty of Health Queensland University of Technology, Brisbane at Queensland, Australia.
MENTORSHIP AWARD

The 2024 Mentorship Award recipient is Roberto Lang, MD, FASE. Dr. Lang has mentored not just within his own institution but has extended his reach globally, influencing countless individuals from diverse backgrounds and regions. From physicians and sonographers seeking to sharpen their diagnostic skills to promising researchers embarking on a career of scholarship to dedicated sonographers aiming to enhance their technical proficiency, Dr. Lang graciously shares his wealth of knowledge and experience with all. His mentoring instills a deep sense of responsibility, a commitment to excellence, and a passion for furthering the field of echocardiography. Dr. Lang has led ASE Foundation global outreach events, served as the National Board of Echocardiography’s Chair, been co-director of ASE’s State-of-The-Art Echocardiography course, lead author on the ASE’s Comprehensive Echo textbook and ASE guidelines, and many other activities where his mentorship of others has led to exemplary results. Dr. Lang is the Director of the Cardiac Noninvasive Imaging Laboratory and Professor of Medicine at The University of Chicago Medical Center, Chicago, IL. This award recognizes an individual who has made significant clinical, research, or educational contributions to the development of the field with the presentation of this award.

MERITORIOUS SERVICE AWARD

ASE is pleased to present Leo Lopez, MD, FASE, with the 2024 Meritorious Service Award, which recognizes individual members for their substantial and generous efforts to the Society’s betterment. Dr. Lopez is nationally and internationally renowned for his extensive accomplishments in pediatric echocardiography. He has actively served on various ASE committees since 2005 and currently serves as the co-chair of the Education Committee and is an active participant on the Registry and IRT committees as well as serving on the Pediatric Performance Measures Task Force. Dr. Lopez has been a mentor to countless members of our Society as well as individuals globally in the imaging community. He has been the lead author of two ASE guidelines and served on the writing group of three other guideline documents. Dr. Lopez is Medical Director of Echocardiography at Lucile Packard Children’s Hospital and is a Professor of Pediatrics at Stanford University, Stanford, CA.

OUTSTANDING ACHIEVEMENT IN PERIOPERATIVE ECHOCARDIOGRAPHY AWARD

The 11th recipient of the Outstanding Achievement in Perioperative Echocardiography Award is Feroze Mahmood, MD, FASE. Dr. Mahmood is a pioneer in perioperative echocardiography having made significant contributions to the routine application of three-dimensional (3D) echocardiography in the operating room. Dr. Mahmood also innovated the technique of using 3D echocardiographic data to print mitral, aortic, and tricuspid valves. This is likely to revolutionize valve analysis and repair techniques. He established the first TEE and TTE simulation centers in the country, which are used by anesthesia and cardiology residents and visited by physicians from all over the world for training. He is currently Professor of Anesthesiology at Harvard Medical School and the Network Chief of Cardiac Anesthesia for Beth Israel Deaconess Medical Center, Boston, MA. The Council recognizes an individual who has made significant clinical, research, or educational contributions to the development of the field with the presentation of this award.

FOUNDERS’ AWARD FOR LIFETIME ACHIEVEMENT IN ECHOCARDIOGRAPHY FOR PEDIATRIC AND CONGENITAL HEART DISEASE

Tai Geva, MD, FASE, is being honored as the 18th recipient of the Founders’ Award for Lifetime Achievement in Echocardiography for Pediatric and Congenital Heart Disease, which recognizes continued major scholarly contributions to the field of pediatric echocardiography. Dr. Geva has excelled in all phases of his career in research, clinical care, education, and leadership. He has conducted seminal research in the use of noninvasive cardiac imaging in pediatric and congenital heart disease, defining and establishing the role of multimodality imaging in the management of congenital heart disease and often avoiding the need for invasive cardiac catheterization. The trainees he has mentored have become a who’s who of division chiefs and section heads around the country and the world. Dr. Geva is currently Cardiologist-in-Chief and Chairman, Department of Cardiology, Boston Children’s Hospital and the Alexander S. Nadas Professor of Pediatrics in the field of Cardiology, Harvard Medical School, Boston, MA.

COUNCIL ON CIRCULATION & VASCULAR ULTRASOUND LUMINARY AWARD

The Circulation & Vascular Ultrasound (CAVUS) Council is pleased to present Robert Eberhardt, MD, FASE, with the 2nd CAVUS Luminary Award for his expertise in vascular medicine and vascular imaging. He has focused on mentoring many fellows in vascular medicine and training numerous physicians in vascular diagnostic imaging to enhance training and quality in these areas. Dr. Eberhardt has been invited as a speaker or moderator on various vascular related topics at numerous national meetings, and has co-authored more than 70 articles and book chapters on vascular related topics. His research interests have included understanding the mechanism and consequences vascular dysfunction and clinical predictors of outcomes in various vascular disorders. Dr. Eberhardt is currently Director of Medical Vascular Services and Co-Director of Noninvasive Vascular Laboratory, at Boston Medical Center, and Clinical Professor of Medicine and Surgery in Cardiovascular Medicine and Vascular and Endovascular Surgery at Boston University School of Medicine, Boston, MA.
**SATURDAY, JUNE 15 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES**

**ECHO EXPO**

**POSTER SESSIONS**

10:00 AM – 5:00 PM

### POSTER SESSION 1 (P1): 10:00 – 10:45 AM

<table>
<thead>
<tr>
<th>Topic</th>
<th>Posters</th>
</tr>
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<tbody>
<tr>
<td>Valvular Heart Disease: Aortic</td>
<td>P1-01, P1-02, P1-04, and P1-06 — P1-15</td>
</tr>
<tr>
<td>Valvular Heart Disease: Mitral</td>
<td>P1-03, P1-05, and P1-16 — P1-33</td>
</tr>
<tr>
<td>Valvular Heart Disease: Tricuspid &amp; Pulmonic</td>
<td>P1-34</td>
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</table>

### POSTER SESSION 2 (P2): 11:00 – 11:45 AM

<table>
<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Perioperative Echocardiography</td>
<td>P2-01, P2-27, P2-28</td>
</tr>
<tr>
<td>Critical Care and Emergency Medicine Cases</td>
<td>P2-02, P2-04, and P2-06 — P2-12</td>
</tr>
<tr>
<td>Structural / Interventional Echocardiography (Operating Room and Interventional Lab)</td>
<td>P2-03 and P2-29 — P2-34</td>
</tr>
<tr>
<td>3D Echocardiography</td>
<td>P2-05, P2-25</td>
</tr>
<tr>
<td>Echocardiography in SOE / Arrhythmias / Atrial Function</td>
<td>P2-13 — P2-24</td>
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### POSTER SESSION 3 (P3): 12:00 – 12:45 PM

<table>
<thead>
<tr>
<th>Topic</th>
<th>Posters</th>
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<tbody>
<tr>
<td>Developing Technology and Innovation</td>
<td>P3-01, P3-03, and P3-29 — P3-34</td>
</tr>
<tr>
<td>Diseases of the Aorta / Vascular Diseases</td>
<td>P3-02, P3-04, P3-06, P3-07</td>
</tr>
<tr>
<td>Artificial Intelligence / Machine Learning</td>
<td>P3-05 and P3-12 — P3-28</td>
</tr>
<tr>
<td>Echocardiography in Systemic Diseases (DM, HTN, Obesity) / Pericardial Disease</td>
<td>P3-08 — P3-11</td>
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### POSTER SESSION 4 (P4): 1:00 – 1:45 PM

<table>
<thead>
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<th>Topic</th>
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<tbody>
<tr>
<td>Ischemic Heart Disease</td>
<td>P4-02 and P4-04 — P4-10</td>
</tr>
<tr>
<td>Quality / Practice Improvement / Education</td>
<td>P4-01 and P4-11 — P4-23</td>
</tr>
<tr>
<td>Value of Echocardiography (Quality &amp; Cost) / Outcomes / Comparative Effectiveness</td>
<td>P4-03 and P4-24 — P4-34</td>
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</table>

### POSTER SESSION 5 (P5): 2:00 – 2:45 PM

<table>
<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Echocardiography in Myocardial Disease (HCM, Amyloidosis, Sarcoidosis, Chagas)</td>
<td>P5-01 and P5-09 — P5-13</td>
</tr>
<tr>
<td>Athlete’s Heart</td>
<td>P5-02</td>
</tr>
<tr>
<td>Ventricular Function / Myocardial Mechanics</td>
<td>P5-03 and P5-05 — P5-06</td>
</tr>
<tr>
<td>Cardio-Oncology</td>
<td>P5-04 and P5-06 — P5-08</td>
</tr>
<tr>
<td>3D Echocardiography</td>
<td>P5-05, P5-14, and P5-15</td>
</tr>
<tr>
<td>Doppler / Hemodynamics</td>
<td>P5-16 — P5-19</td>
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### POSTER SESSION 6 (P6): 3:00 – 3:45 PM

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Multi-Modality Imaging</td>
<td>P6-01, P6-03, and P6-05 — P6-34</td>
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<tr>
<td>Multi-Modality Cases</td>
<td>P6-02, P6-04, and P6-06 — P6-22</td>
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<tr>
<td>Veterinary / Comparative Medicine</td>
<td>P6-05 and P6-24</td>
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<tr>
<td>My Best Heart Team Cases</td>
<td>P6-23</td>
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### POSTER SESSION 7 (P7): 4:00 – 4:45 PM

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Pediatric Congenital Heart Disease</td>
<td>P7-01, P7-03, P7-05, and P7-21 — P7-34</td>
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<tr>
<td>Pediatric Cardiovascular &amp; Congenital Patient Cases</td>
<td>P7-02, P7-04, and P7-06 — P7-13</td>
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</table>

**RAPID FIRE ABSTRACT PRESENTATIONS — ECHOCARDIOGRAPHY IN MYOCARDIAL DISEASE: 12:45 – 1:45 PM**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Posters</th>
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<tbody>
<tr>
<td>Echocardiography in Myocardial Disease (HCM, Amyloidosis, Sarcoidosis, Chagas)</td>
<td>RF-01 — RF-06</td>
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</tbody>
</table>
SATURDAY, JUNE 15 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

### Topic Posters

<table>
<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Adult Congenital Heart Disease</td>
<td>P7-14 — P7-20</td>
</tr>
</tbody>
</table>

### RAPID FIRE ABSTRACT PRESENTATIONS — CARDIO-OBSTETRICS & CRITICAL ILLNESS: 4:00 – 5:00 PM

<table>
<thead>
<tr>
<th>Topic</th>
<th>Posters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardio-Obstetrics</td>
<td>RF-07 — RF-09</td>
</tr>
<tr>
<td>Critical Illness</td>
<td>RF-10 — RF-12</td>
</tr>
</tbody>
</table>

### SONOGRAPHER CAREER AND RECRUITMENT DAY C120-121

ASE is offering a Sonographer Career and Recruitment Day. All registrants are welcome to attend any sessions on Saturday, but there are additional sessions that have been added to the schedule that may be of particular interest to students. ASE is committed to helping address the shortage of sonographers in the field and to enhance and develop career pathways for sonographers. There will be institutions onsite to share information about their labs and employment opportunities. Please see the Whova app for details about the participating institutions and the time of this event.

### SCIENCE & TECHNOLOGY THEATER 12:45 – 1:45 PM

**ECHO EXPO THEATER 1**

**Be the Change: How to Implement the ASE Guidelines for the Use of UEAs in Your Lab’s Policy**

*Presented by Lantheus*

Overview of the ASE guidelines for the appropriate use of UEAs and sharing experiences on how implement these guidelines in the lab’s policy.

*Lunch is provided by ASE, with support from Lantheus, and is included in all Scientific Sessions registration fees, but space and food are first come, first served. This session is not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.*

### SCIENCE & TECHNOLOGY THEATER 12:45 — 1:45 PM

**ECHO EXPO THEATER 2**

**AI Excellence: ACUSON Origin’s Impact on Patients, Sonographers, and Hospitals**

*Presented by Siemens Healthineers*

Join us and learn how leaders in the field of echocardiography implement and utilize AI in their day-to-day practice to benefit patients, sonographers/physicians and healthcare systems and see how ACUSON Origin’s suite of AI tools can enhance efficiency in echocardiography.

*Lunch is provided by ASE, with support from Siemens Healthineers, and is included in all Scientific Sessions registration fees, but space and food are first come, first served. This session is not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.*

### ARTHUR E. WEYMAN YOUNG INVESTIGATOR’S AWARD COMPETITION AND 25TH ANNUAL FEIGENBAUM LECTURE 2:00 – 4:00 PM

**PORTLAND 251-252**

This annual competition is supported by the National Board of Echocardiography (NBE) in honor of its first president, Arthur E. Weyman, MD, FASE. These investigators will present their research, and a winner will be selected by a panel of echo experts.

- **Charlotte Lee Frost, MD**, Perelman School of Medicine, Philadelphia, PA — Interventricular Septal Shape Predicts Prognosis Better Than Conventional 2D Right Ventricular Functional Indices in Chronic Tricuspid Regurgitation
- **Robert McRae, MD**, Seattle Children’s Hospital, Seattle, WA — Applying Machine Learning to Fetal Echocardiograms: A Novel Method for Predicting Critical Coarctation of the Aorta
- **Aditya Radhakrishnan, MD**, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ — Clinical Evaluation of Left Ventricular Tissue Doppler Waveform Developed as a Digital Twin from Surface ECG
- **Gal Tsaban, MD, PhD**, Mayo Clinic, Rochester, MN — Prognostic Stratification of Patients with Mitral Regurgitation by Left Ventricular Diastolic Function Assessment Using Echocardiography and Artificial Intelligence-Enhanced Electrocardiogram
SATURDAY, JUNE 15 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

FEIGENBAUM LECTURER

Shaine Morris, MD, MPH, FASE, will present the 25th Annual Feigenbaum Lecture titled “Echocardiography and Deep Phenotyping: Imaging as the Key to Congenital Cardiac Outcomes Research with Little and Big Data.” Dr. Morris is a Pediatric Cardiologist and Medical Director of Cardiovascular Genetics and the Fetal Cardiology program at Texas Children’s, in Houston, Texas. She is also Associate Professor in Pediatrics at Baylor College of Medicine. Dr. Morris’ research focuses primarily on improving outcomes for children with Marfan syndrome and related disorders. This lecture was named in honor of the founder and first president of ASE, Harvey Feigenbaum, MD, FASE. This lectureship is awarded to a young investigator in recognition of their significant contributions to research in the field of echocardiography and their potential to continue at a high level of achievement.

SCIENCE & TECHNOLOGY THEATER

4:00 – 5:00 PM
ECHO EXPO
THEATER 1
Utilizing Echocardiography in Hypertrophic Cardiomyopathy

Presented by Bristol Myers Squibb

Refreshments are provided by ASE, with support from Bristol Myers Squibb, and are included in all Scientific Sessions registration fees, but space and food are first come, first served.

This session is not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

SCIENCE & TECHNOLOGY THEATER

4:00 – 5:00 PM
ECHO EXPO
THEATER 2
Progressing Echocardiography Through AI and Purposeful Innovation

Presented by Philips Healthcare

Hear echocardiography leaders speak about AI, echo innovations and the full potential of mini 3D TEE. What are they already seeing from this powerful combination, and what can we expect in the future? Join us as we explore a new dimension of patient care.

Refreshments are provided by ASE, with support from Philips, and are included in all Scientific Sessions registration fees, but space and food are first come, first served.

This session is not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

SATELLITE SYMPOSIA

These sessions are not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

6:15 – 7:30 PM
OREGON 203
Shaping the Future of HCM Care: Expert Guidance on the Vital Role of Echocardiography in Diagnosis and Management

In this activity, experts in cardiology and cardiac sonography will discuss the latest advances and best practices on utilizing echocardiography for accurate diagnosis and treatment monitoring of patients with obstructive hypertrophic cardiomyopathy (HCM)—including how to monitor patients on cardiac myosin inhibitors. A patient also shares his perspective on how obstructive HCM can impact quality of life.

Presented by Answers in CME

ASE FOUNDATION RESEARCH AWARDS GALA

6:30 – 11:00 PM
HYATT REGENCY PORTLAND

The premier annual fundraiser for the ASE Foundation is the 15th Annual Research Awards Gala. The ASE Foundation is proud to host its Crystal Gala to celebrate 15 years of cardiovascular ultrasound research and honor ASE’s 2024 award recipients. Attendees are encouraged to wear formal attire for this black-tie evening. Event proceeds support research activities that advance the progress and future of our field. Tickets are required and not available on-site. Thank you to the National Board of Echocardiography for sponsoring the entertainment for the evening. For more information and to pick up your table assignment for the event, visit the ASE Foundation booth, located in the Pre-Function C Lobby.
## Schedule at a Glance

### Sunday, June 16th

<table>
<thead>
<tr>
<th>Session Time</th>
<th>Oregon 201</th>
<th>Oregon 202</th>
<th>Oregon 203</th>
<th>Oregon 204</th>
<th>A106</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 – 7:45 AM</td>
<td><strong>R</strong> Abstracts: Diseases of the Aorta/ Vascular Disease</td>
<td><strong>R</strong> Abstracts: Contrast</td>
<td><strong>R</strong> Abstracts: Valvular Heart Disease: Tricuspid &amp; Pulmonic</td>
<td><strong>R</strong> Abstracts: Adult Congenital Heart Disease</td>
<td><strong>R</strong> Abstracts: Quality Improvement / Education</td>
</tr>
<tr>
<td>8:00 – 9:00 AM</td>
<td><strong>IT</strong> Limited Resources, Unlimited Wants</td>
<td><strong>IE</strong> Imaging for Interventional Heart Failure</td>
<td><strong>IM</strong> Real-World Challenges in the Evaluation and Management of HCM</td>
<td><strong>PC</strong> Transducers, Devices and Technology: The Latest and Greatest</td>
<td><strong>S</strong> ImageGuideEcho Registry: Advancing the Future of Quality in Your Lab</td>
</tr>
<tr>
<td>9:15 – 10:00 AM</td>
<td><strong>P</strong> Insidious Interpretations: Low Gradient Valvular Disease</td>
<td><strong>IM</strong> Echo with a “Cherry on Top” Amyloidosis in the Real World</td>
<td><strong>C</strong> Through the Looking Glass: Advanced Imaging in SCAD, FMD, and Vasculitis</td>
<td><strong>PC</strong> QI Townhall: How to Sustain QI Efforts in the Echo Lab?</td>
<td><strong>PC</strong> Read with Me: Pediatrics (9:15 – 9:45 AM)</td>
</tr>
<tr>
<td>10:00 – 10:30 AM</td>
<td><strong>IM</strong> Episodes of Care: Coronary Heart Disease</td>
<td><strong>S</strong> Echocardiographic Evidence from Multicenter Studies</td>
<td><strong>IT</strong> AI in 2024: The Good, The Bad, and The Ugly</td>
<td><strong>PC</strong> The Conundrum of the Failing Fontan: Imaging Insights and Emerging Trends</td>
<td><strong>PC</strong> Read with Me: Valvular Heart Disease (10:30 – 11:00 AM)</td>
</tr>
<tr>
<td>10:30 – 11:30 AM</td>
<td><strong>IM</strong> Heart Health in Underserved Regions: Unveiling Cardiovascular Conditions in Tropical and Underdeveloped Countries</td>
<td><strong>IE</strong> Multimodality Imaging for TAVR and TMVR</td>
<td><strong>S</strong> Controversies in Valvular Heart Disease</td>
<td><strong>PC</strong> Neonatal Hemodynamics</td>
<td><strong>PC</strong> Read with Me: Strain in Coronary Artery Disease (11:45 AM – 12:15 PM)</td>
</tr>
<tr>
<td>11:45 – 12:30 PM</td>
<td><strong>PC</strong> Neonatal Hemodynamics</td>
<td><strong>S</strong> Echocardiographic Evidence from Multicenter Studies</td>
<td><strong>IM</strong> Real-World Challenges in the Evaluation and Management of HCM</td>
<td><strong>PC</strong> Transducers, Devices and Technology: The Latest and Greatest</td>
<td><strong>S</strong> ImageGuideEcho Registry: Advancing the Future of Quality in Your Lab</td>
</tr>
<tr>
<td>12:30 – 2:00 PM</td>
<td>Lunch Break: Visit the Echo Expo &amp; Posters</td>
<td><strong>G</strong> Real World Application of ASE Guideline: Echocardiographic Assessment of Right Heart and Pulmonary Hypertension</td>
<td><strong>R</strong> Decision Making in Fetal Cardiology: The Good, The Bad and The Ugly</td>
<td><strong>PC</strong> ASE / ACVIM Veterinary Abstract Showcase</td>
<td><strong>IE</strong> Cases in Interventional Echo: Stump the Stars (Interactive Game)</td>
</tr>
<tr>
<td>2:00 – 3:00 PM</td>
<td><strong>S</strong> Read with Me: Strain in Diastology (2:00 – 3:00 PM)</td>
<td><strong>R</strong> The Brian Haluska Sonographer Research Award Competition (2:00 – 3:00 PM)</td>
<td><strong>P</strong> To Go Back on Pump or Not: That is the Question</td>
<td><strong>PC</strong> Decision Making in Fetal Cardiology: The Good, The Bad and The Ugly</td>
<td></td>
</tr>
<tr>
<td>3:00 – 3:30 PM</td>
<td><strong>PC</strong> Decision Making in Fetal Cardiology: The Good, The Bad and The Ugly</td>
<td><strong>IE</strong> The Epidemic of Tricuspid Regurgitation: Imaging to Understand Pathophysiology and Guide Treatment</td>
<td><strong>PE</strong> Let’s Get Pragmatic About Rheumatic</td>
<td><strong>IE</strong> Imaging Across a Lifespan: Evolving Care of Ebstein Anomaly</td>
<td></td>
</tr>
<tr>
<td>3:30 – 4:30 PM</td>
<td><strong>IM</strong> Knock, Knock, Who’s there? Pericardial Disease</td>
<td><strong>S</strong> Read with Me: Intervventional Echo (2:45 – 3:15 PM)</td>
<td><strong>IE</strong> Let’s Get Pragmatic About Rheumatic</td>
<td><strong>PC</strong> Imaging Across a Lifespan: Evolving Care of Ebstein Anomaly</td>
<td></td>
</tr>
<tr>
<td>4:45 – 5:30 PM</td>
<td><strong>G</strong> Read with Me: Intervventional Echo (2:45 – 3:15 PM)</td>
<td><strong>IE</strong> The Epidemic of Tricuspid Regurgitation: Imaging to Understand Pathophysiology and Guide Treatment</td>
<td><strong>IE</strong> Imaging Across a Lifespan: Evolving Care of Ebstein Anomaly</td>
<td><strong>PC</strong> Decision Making in Fetal Cardiology: The Good, The Bad and The Ugly</td>
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**Schedule subject to change. For detailed information, please download Whova, the ASE Courses app.**
<table>
<thead>
<tr>
<th>Session Time</th>
<th>A107-109</th>
<th>DIY Acquisition* B110-112</th>
<th>Learning Lab* B117-119</th>
<th>Echo Expo Poster Area</th>
<th>Echo Expo Science &amp; Technology Theater</th>
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<tbody>
<tr>
<td>7:00 – 7:45 AM</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00 – 9:00 AM</td>
<td></td>
<td>Strain Echocardiography</td>
<td>Valvular Quantification</td>
<td></td>
<td>Managing the Patent Ductus Arteriosus in Neonates with Acquired Congenital Heart Disease</td>
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<tr>
<td></td>
<td></td>
<td>(8:00 – 8:50 AM)</td>
<td>(8:30 – 10:00 AM)</td>
<td></td>
<td>S&amp;T Theater 1</td>
</tr>
<tr>
<td>9:15 – 10:00 AM</td>
<td></td>
<td>Strain Echocardiography</td>
<td></td>
<td></td>
<td>Women in Echo: Discussion with Past ASE Presidents</td>
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<tr>
<td></td>
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<td>(9:15 – 10:05 AM)</td>
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<td>Adult Congenital Heart Disease (2:00 – 2:50 PM)</td>
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<td>Quantify with Me: Strain Imaging in Pediatrics (4:00 – 5:30 PM)</td>
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**Schedule at a Glance**

**SUNDAY, JUNE 16TH**

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<thead>
<tr>
<th>Session Time</th>
<th>A107-109</th>
<th>DIY Acquisition* B110-112</th>
<th>Learning Lab* B117-119</th>
<th>Echo Expo Poster Area</th>
<th>Echo Expo Science &amp; Technology Theater</th>
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<td>8:00 – 9:00 AM</td>
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<td>Strain Echocardiography</td>
<td>Valvular Quantification</td>
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<td>Managing the Patent Ductus Arteriosus in Neonates with Acquired Congenital Heart Disease</td>
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<td>Women in Echo: Discussion with Past ASE Presidents</td>
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**ACHD (A) CIRCULATION (C) CRITICAL CARE (CC) CAREER DEVELOPMENT (CD) GUIDELINES (G)**

**INNOVATION/TECHNOLOGY (IT) INTERVENTIONAL ECHO (IE) ISCHEMIA/MYOCARDIUM (IM) PEDIATRIC/CONGENITAL (PC)**

**PERIOPERATIVE (P) PRACTICE MANAGEMENT (PM) RESEARCH (R) SPECIAL SESSIONS (S)**

*Schedule subject to change. For detailed information, please download Whova, the ASE Courses app.*

*Ticketed event. Advance tickets required.*
KERBER LECTURE
8:00 – 9:00 AM
OREGON 201

The ASE Foundation is proud to recognize Linda Gillam, MD, MPH, FASE, as the 2024 Richard E. Kerber Ethics/Humanitarian Lecturer. She is the Dorothy and Lloyd Huck Chair of Cardiovascular Medicine, Medical Director of the Cardiovascular Service Line for Atlantic Health System, and Professor of Medicine at the Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, PA. Dr. Gillam will present “Echocardiography and the Path to Health Equity” during the Limited Resources, Unlimited Wants session. This biannual lectureship was established in memory of ASE Past President Richard E. Kerber, MD, FASE. Dr. Richard Kerber championed issues of morality and ethics and how medicine fits into the broader world. To honor his legacy, this annual lectureship features an ethical dilemma or humanitarian patient care activity.

ECHO EXPO
POSTER SESSIONS
10:00 AM – 1:45 PM

POSTER SESSION 8 (P8): 10:00 – 10:45 AM

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<tr>
<th>Topic</th>
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<tr>
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<td>and P8-24 — P8-34</td>
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<tr>
<td>Pediatric Cardiovascular &amp; Congenital</td>
<td>P8-02, P8-04, and</td>
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<tr>
<td>Patient Cases</td>
<td>P8-06 — P8-23</td>
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POSTER SESSION 9 (P9): 11:00 – 11:45 AM

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<th>Topic</th>
<th>Posters</th>
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<tr>
<td>Adult &amp; Pediatric Heart Failure / Transplant / Other</td>
<td>P9-01, P9-03, P9-05,</td>
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<td>and P9-29 — P9-34</td>
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<tr>
<td>Adult Cardiovascular Patient Cases</td>
<td>P9-02, P9-04, and</td>
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<td>P9-06 — P9-17</td>
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<tr>
<td>Pediatric Cardiovascular &amp; Congenital</td>
<td>P9-18 — P9-28</td>
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<td>Patient Cases</td>
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POSTER SESSION 10 (P10): 12:00 – 12:45 PM

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Adult Cardiovascular Patient Cases</td>
<td>P10-01 — P10-34</td>
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RAPID FIRE ABSTRACT PRESENTATIONS — PCHD: 12:45 – 1:45 PM

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<th>Topic</th>
<th>Posters</th>
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<tr>
<td>Pediatric Congenital Heart Disease</td>
<td>RF-13 — RF-18</td>
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POSTER SESSION 11 (P11): 1:00 – 1:45 PM

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<td>P11-06 — P11-33</td>
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<tr>
<td>Vascular Cases</td>
<td>P11-05 and P11-34</td>
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SCIENCE & TECHNOLOGY THEATER
12:45 – 1:45 PM

ECHO EXPO THEATER 1
Harnessing AI for the Detection of HFpEF and Amyloidosis
Presented by Ultromics

Discover the latest research on how AI can streamline the detection of HFpEF and Amyloidosis. Hear from leading clinicians in the field sharing examples of how EchoGo® supports in uncovering previously undiagnosed HFpEF and amyloidosis to improve timely access to effective therapies and improve quality of life.

Lunch is provided by ASE, with support from Ultromics, and is included in all Scientific Sessions registration fees, but space and food are first come, first served.

This session is not part of the official ASE 2024 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

SCIENCE & TECHNOLOGY THEATER
12:45 – 1:45 PM

ECHO EXPO THEATER 2
National Board of Echocardiography’s New Maintenance of Certification in Echo – MOCE
Presented by National Board of Echocardiography

NBE Testamurs and NBE Diplomates will begin a new maintenance of certification in echocardiography (MOCE) starting in July 2024. NBE’s Executive Committee and Board Members will share the details of the new process and expectations for NBE Testamurs and Diplomates. MOCE will allow physicians to test their echocardiography knowledge on an ongoing basis through a longitudinal assessment.

Lunch is provided by ASE, with support from National Board of Echocardiography, and is included in all Scientific Sessions registration fees, but space and food are first come, first served.

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BRIAN HALUSKA SONOGRAPHER RESEARCH AWARD COMPETITION
2:00 – 3:30 PM
OREGON 201

The ASE Foundation’s annual Brian Haluska Sonographer Research Award Competition honors the late Brian Haluska, PhD, MSC (HONS), MSC, RDCS, AMS, FASE, and his incredible contributions to sonographer-led research over the course of his career. This competition recognizes non-physicians who served as the primary investigator on their project of original work. During this session the competition finalists will present their research, and a winner will be selected by a panel of echo experts.

- **Cody Frye, BA, ACS, RDCS, FASE**, Sanger Heart and Vascular Institute - Atrium Health, Charlotte, NC – The Efficacy of Goal-Directed Valsalva to Elicit Clinically Significant Gradients in Patients with Obstructive Hypertrophic Cardiomyopathy Taking Mavacamten Therapy
- **Sarah Hayson, RDCS**, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH – Evaluating Improvement in Study Duration and Quality for Newly Hired Pediatric and Congenital Sonographers
- **Jeffrey Hill, MSc, ACS, FASE**, Massachusetts College of Pharmacy and Health Sciences, Boston, MA – Novel Noninvasive Pressure-Strain for the Application of a New Index of Myocardial Work
- **Babitha Thampanthan, CRCS, RDCS, FASE**, Mohawk-McMaster University, Hamilton, ON, Canada – Effectiveness of Simulation-Based Transthoracic Echocardiography Training on Cardiac Sonography Students’ Learning

SUNDAY, JUNE 16 SPECIAL EVENTS AND NETWORKING OPPORTUNITIES
ASE Leadership Academy
BUILDING FUTURE LEADERS

Congratulations to the 2022–2024 Leadership Academy graduates!

Applications for the 4th Cohort of the ASE Leadership Academy are now being accepted through August 1, 2024.

Jennifer Acevedo, ACS, RDMS, FASE
Ann & Robert H. Lurie Children’s Hospital of Chicago

Bhaskar Arora, MD, FASE
Oregon Health & Science University

Kiran Belani, MD, FASE
Inova Fairfax Hospital

Courtney Cassidy, RDMS, FASE
Children’s Hospital Colorado

Tiffany Chen, MD, FASE
Hospital of the University of Pennsylvania

Nadeen Faza, MD, FASE
Houston Methodist

Cody Frye, BA, ACS, RDMS, FASE
Sanger Heart and Vascular Institute – Atrium Health

Gary Huang, MD, FASE
University of Washington

Denise Ignatowski, BS, RDMS, FASE
Aurora Health Care

Megan Kraushaar, BS, RCS, FASE
UCSD Medical Center

Shiraz Maskatia, MD, FASE
Stanford University Medical Center

Anju Mediratta, MD, FASE
Morristown Medical Center

Purvi Parwani, MD, MPH, FASE
Loma Linda University Medical Center

Bo Xu, MD, FASE
Cleveland Clinic Foundation

Megan Yamat, RDMS, RCS, ACS, FASE
University of Chicago Medical Center

Learn more and apply at ASEcho.org/LeadershipAcademy
Questions? Contact LeadershipAcademy@ASEcho.org
Don’t Miss the Latest Products from the ASE Learning Hub

ASE is your one-stop-shop for everything you need in cardiovascular ultrasound education!

Purchase ASE’s products at the following locations:

**ASE Headquarters Booth #654**
- Friday, June 14: 3:30 – 5:30 PM
- Saturday, June 15: 10:00 AM – 5:30 PM
- Sunday, June 16: 10:00 AM – 2:00 PM

**ASE Products Sales Booth – Oregon Ballroom Lobby**
- Friday, June 14: 11:30 AM – 3:00 PM
- Saturday, June 15: 6:30 AM – 5:00 PM
- Sunday, June 16: 6:30 AM – 5:00 PM

ASE products will also be for sale on Friday during the President’s Reception.

ASELearningHub.org

This Weekend Only: Use Code ASE2024 to Receive an Additional 10% Off Member Pricing!

*Some exclusions may apply.*
ASE 35th Annual Scientific Sessions
June 14-16, 2024
Oregon Convention Center - Exhibit Halls A-A1-B - Level 1
ECHO EXPO HOURS
FRIDAY, JUNE 14 3:30 – 5:30 PM
President’s Reception 3:30 – 5:30 PM
SATURDAY, JUNE 15 10:00 – 5:30 PM
SUNDAY, JUNE 16 10:00 AM – 2:00 PM

ECHO EXPO BREAK SCHEDULE
SATURDAY, JUNE 15
Coffee Break 10:00 – 10:30 AM
Lunch Break* 12:30 – 2:00 PM
Coffee Break 4:00 – 5:00 PM

SUNDAY, JUNE 16
Coffee Break 10:00 – 10:30 AM
Lunch Break* 12:30 – 2:00 PM

*Lunch is not provided for conference attendees unless you are attending the Science & Technology Theater presentations which is available on a first-come, first-served basis. However, food and refreshments will be available for purchase in the Echo Expo.

SCIENCE & TECHNOLOGY THEATER SCHEDULE

ASE is pleased to offer two Science & Technology Theater presentation spaces. Please be sure to double check the schedule for the correct theater space for the presentation you are interested in attending. ASE will provide boxed meals during each lunch session on a first come, first served basis (max. 300 participants). Various refreshments may also be available for the morning and evening sessions. These refreshments are included in all Scientific Sessions registration fees, but space and food are on a first come, first served basis.

SATURDAY, JUNE 15

12:45 – 1:45 PM  THEATER 1
Be the Change: How to Implement the ASE Guidelines for the Use of UEAs in Your Lab’s Policy
Presented by Lantheus

12:45 – 1:45 PM  THEATER 2
AI Excellence: ACUSON Origin’s Impact on Patients, Sonographers, and Hospitals
Presented by Siemens Healthineers

4:00 – 5:00 PM  THEATER 1
Utilizing Echocardiography in Hypertrophic Cardiomyopathy
Presented by Bristol Myers Squibb

4:00 – 5:00 PM  THEATER 2
Progressing Echocardiography Through AI and Purposeful Innovation
Presented by Philips Healthcare

SUNDAY, JUNE 16

12:45 – 1:45 PM  THEATER 1
Harnessing AI for the Detection of HFpEF and Amyloidosis
Presented by Ultromics

12:45 – 1:45 PM  THEATER 2
NBE’s New Maintenance of Certification in Echocardiography – MOCE
Presented by National Board of Echocardiography

These sessions are not part of the official ASE 2024 Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE.
ASE Lunch Symposium

Be the change: How to implement the ASE guidelines for the use of UEAs in your lab’s policy

Join us on Saturday, June 15, 2024 • 12:45 pm - 1:45 pm

Paul Braum
BS, RVT, RDCS, RCS, RVS, FASE

Lunch is provided but space and boxed lunches are first-come, first served.

This session is not part of the official ASE 2023 Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE. This event does not qualify for continuing medical education (CME) credit.
This session is not part of the official ASE 2024 Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE. This event does not qualify for continuing medical education (CME) credit.

Join us and learn how leaders in the field of echocardiography implement and utilize AI in their day-to-day practice to benefit patients, sonographers/physicians and healthcare systems and see how ACUSON Origin’s suite of AI tools can enhance efficiency in echocardiography.

**Session topics**

**Moderator**
Sunil Mankad, MD, Mayo Clinic

**CCF Initial Experience with ACUSON Origin AI Protocol**
Richard Grimm, DO, Cleveland Clinic

**AI in Action “Live from ACUSON Origin”**
Kevin Moreau, RDCS, Piedmont Heart and Vascular
Robert Burke, MD, Scottsdale Honor Health

**Implementing AI in Echocardiography from a Managers Perspective**
Tony Gallagher, MHA, FASE, RDCS, Baptist Health Lexington

We look forward to seeing you!
Utilizing Echocardiography in Hypertrophic Cardiomyopathy

Join this session to review guideline-recommended echocardiography techniques used in diagnosing and monitoring HCM, including an illustrative patient case.

Purvi Parwani, MD, MPH, FACC*
Director of Echocardiography,
Loma Linda University Health

June 15, 2024
4:00 PM–5:00 PM PT
Science & Technology Theater 1

*Speaker is compensated by Bristol Myers Squibb.
HCM=hypertrophic cardiomyopathy.

This session is not part of the official ASE 2024 Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE.

This event does not qualify for continuing medical education (CME) credit.

This program is sponsored by Bristol Myers Squibb.
Progressing echocardiography through AI and purposeful innovation

Join us to hear echocardiography leaders speak about AI, echo innovations and the full potential of mini 3D TEE. What are they already seeing from this powerful combination, and what can we expect in the future? We’re looking forward to having you with us as we explore a new dimension of patient care.

**Theater #2**  
**Saturday**  
**June 15**  
**4:00 pm**

**Moderator**  
Kerry Short  
Clinical Product Management Lead, Philips Cardiovascular Ultrasound

**Panel**  
Hila Goldman Aslan  
Founder/CEO  
DiA Imaging Analysis acquired by Philips  

Dr. Renuka Jain  
Director of Echocardiography  
Advocate Aurora Health  

Dr. Roberto M. Lang  
Professor of Medicine and Cardiac Imaging Center Director  
University of Chicago Medical Center  

Dr. Daniel G. Berson  
Chief of Anesthesia  
Heart Hospital of New Mexico  

Dr. Pei-Ni Jone  
Professor of Pediatrics, Pediatric Cardiology  
Lurie Children’s Hospital, Northwestern University Feinberg School of Medicine

This session is not part of the official ASE 2024 Scientific Sessions, as planned by the Program Committee, or was in any way endorsed by or affiliated with ASE. This event does not qualify for continuing medical education (CME) credit.
Harnessing AI for the detection of HFpEF and Amyloidosis

Join us at ASE on Sunday

Science & Technology Theater: #1

Sunday, June 16th, 2024 12:45-1:45

Discover the latest research on how AI can streamline the detection of HFpEF and Amyloidosis.

Hear from leading clinicians in the field sharing examples of how EchoGo® supports in uncovering previously undiagnosed HFpEF and amyloidosis to improve timely access to effective therapies and improve quality of life.

Ross Upton PhD
Founder, CEO & Chief Scientific Officer, Ultromics
Co-Chair, HeartShare AI Committee, NIH

Patricia Pellikka MD
Vice Chair, Department of Cardiovascular Medicine, Mayo Clinic
Betty Knight Scripps Professor of Cardiovascular Diseases
Editor-in-Chief, JASE

Akhil Narang MD
Director Echocardiography Laboratory, Northwestern University - The Feinberg School of Medicine

Jordan Strom MD
Director Echocardiography Laboratory, Beth Israel Deaconess Medical Center
Join us on Sunday, June 16 to learn about the National Board of Echocardiography’s new Maintenance of Certification in Echo – MOCE

NBE Testamurs and NBE Diplomates will begin a new maintenance of certification in echocardiography (MOCE) starting in July 2024. NBE’s Executive Committee and Board Members will share the details of the new process and expectations for NBE Testamurs and Diplomates. MOCE will allow physicians to test their echocardiography knowledge on an ongoing basis through a longitudinal assessment.

*Pre-registration is preferred, but optional.

S+T Theater # 2 • Sunday, June 16* • 12:45 PM

www.echoboards.org/MOCE
WHERE INNOVATION AND SCIENCE MEET

Don’t miss the Echo Expo on Level 1 in Exhibit Halls A & B. The exchange of information and access to new concepts, technology, devices, and research is a vital component of your professional development. Meet face-to-face with the industry’s leading developers and executives who can help you discover what’s new, assist you in making the right choices for your institution, and show you ways to reduce costs and improve productivity. Network with colleagues and friends, while experiencing the best our rapidly changing industry has to offer, including the newest equipment and devices, as well as the latest in research and development. You can also grab a cup of coffee, lunch, or snack. The showcase of investigators from around the world presenting cutting-edge research on the latest advances in cardiovascular ultrasound is a highlight of ASE’s Scientific Sessions.

Spend time in the poster area and gain firsthand knowledge and insight from scientific investigators. Don’t miss daily poster sessions on Saturday and Sunday.

ASE HEADQUARTERS BOOTH #654

As the largest organization representing the cardiovascular ultrasound community, ASE is a vibrant and progressive organization. Visit the ASE Headquarters booth #654 to find comprehensive information on all our educational programs and products, membership opportunities, and advocacy efforts. Don’t miss the debut of exciting new products and services designed to help with your practice of cardiovascular ultrasound. ASE staff is available to help you find whatever you need. If you have not logged in to the ASE Learning Hub or used Connect@ASE, come by for a tutorial.

Have a question about ASE? There will be a variety of opportunities to meet committee leaders and staff in the ASE booth.

MEET FACE TO FACE

Are you interested in becoming a Fellow of the American Society of Echocardiography (FASE) but have questions about whether you may qualify? Stop by the ASE Booth #654 to talk one-on-one with a member of the FASE Advisory Committee or ASE staff about any questions you have about achieving the FASE designation.

ACTIVITIES IN THE ASE BOOTH

FRIDAY, JUNE 14

4:00 – 4:30 PM
Face to FASE – Learn How to Achieve the FASE Designation
FASE Advisory Committee Chair, Jennifer Warmsbecker, BS, RDCS, FASE, FASE

4:00 – 4:30 PM
Meet ASE President Benjamin Eidem, MD, FASE

4:30 - 5:00 PM
ASE Social Media Champions Meet-Up

4:30 – 5:00 PM
Learn About ASE’s Leadership Academy and How to Apply
Incoming Program Director, ASE Leadership Academy Oversight Committee, Madhav Swaminathan, MD, MMCi, FASE

SATURDAY, JUNE 15

10:00 – 10:30 AM
ImageGuideEcho Registry Information Session
Growth of the ImageGuideEcho Registry
ImageGuideEcho Registry Committee Chair, Jordan Strom, MD, MSc, FASE

3:00 – 3:30 PM
Face to FASE – Learn How to Achieve the FASE Designation
FASE Advisory Committee Chair, Jennifer Warmsbecker, BS, RDCS, FASE, FASE

4:00 – 4:30 PM
Learn About ASE’s Leadership Academy and How to Apply
Current Program Director, ASE Leadership Academy Oversight Committee, Vera Rigolin, MD, FASE

SUNDAY, JUNE 16

10:00 – 10:30 AM
Learn About ASE’s Leadership Academy and How to Apply
Past Program Director, ASE Leadership Academy Oversight Committee, Neil Weissman, MD, FASE

10:00 – 10:30 AM
ImageGuideEcho Registry Information Session
Growth of the ImageGuideEcho Registry
ImageGuideEcho Registry Committee Chair, Jordan Strom, MD, MSc, FASE

1:00 PM
Announcement of the ASE Foundation Cardiovascular Challenge Winners

1:30 – 2:00 PM
Face to FASE – Learn How to Achieve the FASE Designation
FASE Advisory Committee Chair, Jennifer Warmsbecker, BS, RDCS, FASE, FASE
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Abbott .............................................................. 431
3200 Lakeside Drive
Santa Clara, CA 95054
United States
Abbott is a global healthcare leader that helps people live more fully at all stages of life. Our portfolio of life-changing technologies spans the spectrum of healthcare, with leading businesses and products in diagnostics, medical devices, nutritional and branded generic medicines. Our 115,000 colleagues serve people in more than 160 countries. Connect with us at Abbott.com, on LinkedIn at LinkedIn.com/company/abbott/, on X @AbbottCardio.

AGFA HealthCare .............................................. 247
10 S Academy Street
Greenville, SC 29601
United States
Phone: +1 864-421-1600
Global.AGFAHealthCare.com/Cardiology/
At AGFA HealthCare, we are supporting healthcare professionals with secure and effective imaging data management. AGFA HealthCare’s Enterprise Imaging is designed to build a connected and collaborative community of care. Images are available to all members of the care team, in ONE single workspace. We focus on creating an exceptional experience and true empowerment. When your imaging technology feels like an extension of you, you can embrace your utmost potential and stay in your flow.

Agitated Solutions, Inc. ........................................ 950
2300 Myrtle Avenue
Suite 200
Saint Paul, MN 55114
United States
Phone: +1 651-234-0886
AgitatedSolutions.com
ASI develops tools to help improve ultrasound imaging and diagnostics across multiple applications. ASI is currently developing solutions to eliminate the need for manual agitation of saline and allow a single operator to automatically high-quality microbubbles for enhanced imaging. ASI’s Orbis Micorubble Generator is now licensed in Canada.

Alnylam Pharmaceuticals .................................. 348
300 Third Street
Cambridge, MA 02142
United States
Phone: +1 503-507-6128
Alnylam.com
Since its founding, Alnylam has led the translation of RNA interference (RNAi) into a new class of approved and investigational medicines for rare genetic, cardio-metabolic, hepatic infectious, and central nervous system (CNS)/ocular diseases. Alnylam is headquartered in Cambridge, MA. For more information, Alnylam.com.

American Society of Echocardiography .............. 654
2530 Meridian Parkway
Suite 450
Durham, NC 27713
United States
Phone: 919-861-5574
Email: ASE@ASEcho.org
ASEcho.org
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. We advocate the use of ultrasound to provide an exceptional view of the cardiovascular system to enhance patient care. ASE membership is open to all echo enthusiasts. Join the most important voice in cardiovascular ultrasound!

ASE’s ImageGuideEcho Registry .................... 654
2530 Meridian Parkway
Suite 450
Durham, NC 27713
United States
919-861-5574
ImageGuideEcho.org
ASE’s ImageGuideEcho Registry is the nation’s first echo-specific clinical data registry. Within the Registry, your institution will have the analytical tools to: track quality improvement; conduct detailed analysis into your own data; leverage continued alignment in quality with IAC; link to outcomes data; and examine data to conduct innovative research.
AstraZeneca

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Wilmington, Delaware 19850
United States
Phone: +1 800-456-3669
Astrazeneca-us.com

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialization of prescription medicines in Oncology, Rare Diseases and BioPharmaceuticals, including Cardiovascular, Renal & Metabolism, and Respiratory & Immunology. For more information, please visit Astrazeneca-us.com and follow us on X @AstraZenecaUS.

Bracco Diagnostics

259 Prospect Plains Road Bldg. H
Monroe Twp., NJ 08831
United States
Phone: +1 609-514-2200
Bracco.com/en-us/Ultrasound

Bracco Imaging offers products and solutions for all key diagnostic imaging modalities: X-ray (including Computed Tomography, Interventional Radiology, and Cardiac Catheterization), Magnetic Resonance Imaging, Contrast Enhanced Ultrasound, and Nuclear Medicine through radioactive tracers. This portfolio is complemented by a range of medical devices and advanced administration systems.

Bristol Myers Squibb

3401 Princeton Pike
Lawrenceville, NJ 08548
United States
Phone: +1 800-332-2056
BMS.com

Bristol Myers Squibb is a leading global biopharma company focused on discovering, developing and delivering innovative medicines for patients with serious diseases in areas including oncology, hematology, immunology, cardiovascular and neuroscience. Our employees work every day to transform patients’ lives through science.

Canon

Canon Medical USA, Inc.

2441 Michelle Drive
Tustin, CA 92780
United States

Cardiovascular Credentialing International (CCI)

3739 National Drive
Suite 202
Raleigh, North Carolina 27612
United States
Phone: +1 919-861-4539
CCI-Online.org

Wholehearted Validation. For more than 50 years as the only credentialing body focused on the heart and circulatory systems, CCI continues to improve the quality of patient care through the wholehearted support of the education and career ambitions of emerging and experienced healthcare professionals.

CHRISTUS Health

5101 N O Conner Boulevard
Irving, Texas 75039
United States
Phone: +1 469-282-2000
ChristusHealth.org
Dartmouth Health

1 Medical Center Drive
Lebanon, NH 03766
United States
Phone: +1 603-577-4000
DHCareers.org

At Dartmouth Health, we believe that the diversity of our people, and community shows a strength we support and celebrate. We are committed to creating a welcoming and inclusive environment for everyone to thrive, honoring all within our organization and the communities we serve.

Egg Medical

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Arden Hills, Minnesota 55112
United States
Phone: +1 612-916-6616
EggMedical.com

Ionizing radiation poses occupational risks to all staff working in interventional labs. At Egg Medical, our mission is to design the simplest and most effective solutions to protect all healthcare workers from radiation exposure and orthopedic injury in every case.

Epsilon Imaging

333 Jackson Plaza Suite 100
Ann Arbor, Michigan 48103
United States
Phone: +1 734-369-5100
Epsilon-Imaging.com

Epsilon Imaging is your trusted source for advanced echo analysis combined with strain imaging. EchoInsight® assists in streamlining analysis, interpretation, and monitoring of studies with the powerful benefits of strain imaging, and is transforming diagnostic workflow and patient care.

European Association of Cardiovascular Imaging (EACVI)

2035 Route des Colles
Sophia Antipolis, 06903
France
Phone: +33 (0)4 92 94 76 00
ESCardio.org/EACVI

The EACVI is a unified community of 14,000 healthcare professionals worldwide gathering four imaging modalities under one entity (echo-cardiography, cardiovascular magnetic resonance, nuclear cardiology and cardiac computed tomography). We promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging.
Freeland Systems - AccessPoint
550 Congressional Boulevard
Suite 115
Carmel, IN 46031
United States
Phone: +1 888-615-1888
FreelandSystems.com
With more than 30 years of clinical imaging informatics experience and approximately 1,800 installations trusted in hospitals, academia, clinics, private practices, research institutions, and mobile imaging services, Freeland Systems offers innovative and efficient solutions for image and reporting management, on-premise and cloud-based archives, robust clinical database, EHR interoperability solutions.

FUJIFILM Healthcare Americas Corporation
81 Hartwell Avenue
Suite 300
Lexington, MA 02421
United States
Phone: +1 800-431-1850
HealthcareSolutions-us.Fujifilm.com
FUJIFILM Healthcare Americas Corporation is a comprehensive healthcare company that has an extensive range of technology and expertise in the detection, diagnosis and treatment of diseases. Fujifilm’s innovative medical imaging portfolio includes solutions for digital radiography, mammography, CT, MRI, ultrasound, gastroenterology, pulmonology, endosurgery, and minimally invasive surgery. The award-winning Synapse® Enterprise Imaging portfolio provides healthcare professionals with the cross-departmental imaging and data access needed to deliver a complete patient record.

HeartLab
238 Khyber Pass Road
Auckland, 01023
New Zealand
Phone: +1 628-257-9980
HeartLab.com
HeartLab is a cloud-based cardiology imaging platform for cardiac care providers. It was designed to save time, offer customizable reporting, make comparing current and prior studies simple, and enable care providers to collaborate in real-time. HeartLab provides a superior user experience and is available on most connected devices.

Hypertrophic Cardiomyopathy Association
66 Ford Road Suite 213B
Denville, New Jersey 07834
United States
Phone: +1 973-983-7429
4HCM.org
Hypertrophic Cardiomyopathy Association is dedicated to providing support, education, and advocacy for individuals and families affected by hypertrophic cardiomyopathy. They are committed to advancing research, improving care, and enhancing the quality of life for those living with this condition.
Intersocietal Accreditation Commission (IAC) .................................................... 436
6021 University Boulevard
Suite 500
Ellicott City, MD 21043
United States
Phone: +1 800-838-2110
Intersocietal.org

Visit IAC to learn about our accreditation programs for Diagnostic Imaging and Vascular/Cardiac Intervention. Representatives are available to discuss the Standards, application process and tools designed to help your facility engage in continuous improvement. IAC’s Quality Improvement Self-Assessment Tool enables facilities to assess their case studies and final reports.

JRC-DMS ........................................................................................................ 748
6021 University Boulevard
Suite 500
Ellicott City, MD 21043-6077
United States
Phone: +1 443-973-3251
JRCDMS.org

The JRC-DMS makes accreditation recommendations for diagnostic medical sonography programs to the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Programmatic accreditation is awarded to programs who through a self-study and site visit demonstrate substantial compliance to published CAAHEP Standards and Guidelines specific to DMS.

Lantheus ........................................................................................................... 755
201 Burlington Road
Bedford, MA 01730
United States
Phone: +1 800-362-2668
Lantheus.com

Lantheus is the leading radiopharmaceutical-focused company, delivering life-changing science to enable clinicians to Find, Fight and Follow disease to deliver better patient outcomes. Headquartered in Massachusetts with offices in New Jersey, Canada and Sweden, Lantheus has been providing radiopharmaceutical solutions for more than 65 years. For more information, visit Lantheus.com.

Mayo Clinic ....................................................................................................... 449
40001 41st Street NW
Mayo Support Center
North 3-3-2
Rochester, MN 55901
United States
Phone: +1 800-283-6296
CVEducation.Mayo.edu

The Mayo Clinic Departments of Cardiovascular Medicine and Cardiovascular Surgery are on the leading edge of researching and treating cardiovascular and cardiothoracic conditions, and providing CME courses, board reviews, podcasts, and a free video center.

narnar .............................................................................................................. 651
13424 Auburn Court
Lake Oswego, Oregon 97035
United States
Phone: +1 503-442-9273
narnarhealth.com

Software for contrast ultrasound.

National Board of Echocardiography (NBE) .................................................. 750
3915 Beryl Road
Suite 130
Raleigh, NC 27607
United States
Phone: +1 919-861-5582
EchoBoards.org

The National Board of Echocardiography, Inc is a physician, volunteer-led not-for-profit established in 1996 to develop and administer examinations and certifications that recognize echocardiography physician expertise. Examinations of Special Competence administered: Adult Echocardiography (ASCeXAM), Advanced & Basic Perioperative Transesophageal Echocardiography (Advanced PTEeXAM & Basic PTEeXAM), and Critical Care Echocardiography (CCEeXAM).
**NeuraSignal** ......................................................350
1109 Westwood Boulevard
Los Angeles, CA 90024
United States
Phone: +1 877-638-7251
NeuraSignal.com

NeuraSignal is a medical technology company with a mission to save lives by unlocking the power of blood flow data. The FDA-cleared NovaGuide Intelligent Ultrasound combines non-invasive ultrasound and artificial intelligence to assess cerebral hemodynamics. NeuraSignal supports physicians in their clinical decision making in several conditions including PFO and stroke.

**Northeast Georgia Health System ......................647
743 Spring Street
Gainesville, GA 30501
United States
Phone: +1 770-219-9000
NGHS.com

Northeast Georgia Health System (NGHS) is a not-for-profit community health system dedicated to improving the health and quality of life of the people of Northeast Georgia. Northeast Georgia Health System (NGHS) is a not-for-profit community health system dedicated to improving the health and quality of life of the people of Northeast Georgia.

**Pfizer ..............................................................749
235 E 42nd Street
New York, NY 10017
United States
Phone: +1 212-233-2323
Pfizer.com

At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. Every day, Pfizer colleagues work across developed and emerging markets to advance wellness, prevention, treatments, and cures that challenge the most feared diseases of our time.

**Philips .............................................................441
222 Jacobs Street
Cambridge, Massachusetts 02141
United States
Philips.com/healthcare/solutions/ultrasound/cardiovascular-ultrasound

Philips is a leading health technology company focused on improving people’s health and enabling better outcomes – from healthy living and prevention, to diagnosis, treatment and home care.
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**PIE MEDICAL IMAGING**

**Pie Medical Imaging B.V.** .......................... 337
Philipsweg 1  
Maastricht, Limburg 6227 AJ  
Netherlands  
Phone: +31433281328  
PieMedicalImaging.com

Pie Medical Imaging provides cardiovascular image analysis solutions which assist the medical professional to improve patient treatment.

**Providence** .......................... 428
1801 Lind Avenue Southwest  
Renton, WA 98057  
United States  
Phone: +1 425-525-3355  
Providence.jobs

At Providence, we take time to see, hear and value everyone who walks through our doors. Working with us means that regardless of your role, we’ll walk alongside you in your career, supporting you so you can support others.

**ScImage** .......................... 744
4916 El Camino Real  
Suite 200  
Los Altos, CA 94022  
United States  
Phone: +1 650-694-4858  
https://scimage.com

Discover the future of healthcare with ScImage’s PICOM365 Cloud—an enterprise imaging solution seamlessly connecting cardiac imaging disciplines, including Echo, Cath, Vascular, NucMed, Holter, Stress, and ECG studies.

Founded in 1993, privately held ScImage continues to provide Cloud-native enterprise imaging, PACS and image exchange solutions that are the Axiom of Efficiency.

**Sheehan Medical** .......................... 645
7835 85th Place SE  
Mercer Island, WA 98040  
United States  
Phone: +1 206-498-0766  
Sheehan-Medical.com

New at Sheehan Medical, the Gold Standard in Ultrasound Education: Access Simulator as a Service via the cloud from your Windows PC and save. Practice TEE on CT as well as 3D TEE images. Load your own patient images into the TEE simulator. Watch a live demo at booth 645.

**Siemens Healthineers** .......................... 741
40 Liberty Boulevard  
Malvern, PA 19355  
United States  
Phone: +1 800-888-7436  
Siemens-Healthineers.com/en-us/ultrasound/cardiovascular

Siemens Healthineers pioneers’ breakthroughs in healthcare for everyone. Everywhere. Sustainably. As a leading medical technology company Siemens Healthineers is continuously developing its product and service portfolio, with AI-supported applications and digital offerings that play an increasingly important role in the next generation of medical technology for cardiovascular care and more. Further information is available at Siemens-Healthineers.com.

**SoftLink International Inc.** .......................... 351
297 Knollwood Road  
Suite 301  
White Plains, NY 10607  
United States  
Phone: +1 914-285-5110  
SoftLinkInternational.com

Established in 1997, SoftLink International is a healthtech company focused on IT solutions, with a special focus on Echo PACS and Echo Reporting software solutions. We also provide advanced image management, healthcare automation, clinical informatics, and a suite of cutting-edge products designed to revolutionize the healthcare industry.
**SonoBeds**

10380 CR 6310
West Plains, Missouri 65775
United States
Phone: +1 888-256-8748
SonoBed.com

Established in 1995 by registered sonographer Jason K. Stasney, RVT, RDCS, Heritage Medical Products has been inventing, manufacturing and selling direct to fellow sonographers. We offer ergonomic exam beds for all areas of ultrasound. Stop by our booth and test drive the SonoBed Atlas, our best selling cardiac SonoBed!!

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**Studycast by Core Sound Imaging**

5510 Six Forks Road
Suite 200
Raleigh, NC 27609
United States
Phone: +1 919-277-0636
CoreStudycast.com

Comprehensive image management and reporting solution: Streamlined and intuitive, the Studycast system provides a single workflow from exam to archive. Add optional integration interfaces, and the system goes full circle from order to results. View diagnostic-quality images and loops, quickly generate findings, and digitally sign reports from any Internet-connected device.

---

**Ultromics**

3343 Peachtree Road NE
Suite 145-1626
Atlanta, GA 30326
United States
Ultromics.com

Ultromics is a pioneer in advanced solutions for heart failure detection. Our flagship platform, EchoGo®, harnesses AI and ultrasound technology to deliver precise diagnoses of specific phenotypes of heart failure, starting with HFrEF, enabling timely and early intervention. Developed in collaboration with Mayo Clinic and NHS England. Learn more: Ultromics.com.

---

**UCSF Health**

654 Minnesota Street, Suite 200
San Francisco, CA 94107
United States
Phone: +1 415-476-1000
UCSF.edu

UCSF Health is ranked among the top hospitals nationwide by U.S. News & World Report. We are committed to providing the most rewarding work experience while delivering the best care available anywhere. An environment that allows for continuous learning and opportunities for professional growth, UCSF Health offers the ideal atmosphere.

---

**Valley Children’s Healthcare**

9300 Valley Children’s Place
Madera, CA 93636
United States
Phone: +1 559-353-7068
ValleyChildrens.org

Valley Children’s Healthcare—one of the largest pediatric healthcare networks in the nation—provides Central California’s only high-quality, comprehensive care exclusively for children, from before birth to young adulthood. With more than 670 physicians and 3,500 staff, Valley Children’s delivers high-quality, comprehensive care to more than 1.3 million children in our area.
EXHIBITOR DESCRIPTIONS

Version2 VR Technologies .................................................. 346
1537 W. Minerva Avenue
Anaheim, CA 92802
United States
Phone: +1 949-698-0920
Version2VR.com
Version2 VR Technologies pioneers cutting-edge ultrasound simulations, merging virtual reality and mixed reality for immersive learning experiences. Our simulations enhance student scanning proficiency, employing advanced ultrasound technology in a virtual environment. We optimize learning outcomes through interactive, realistic scenarios, revolutionizing ultrasound education and training for medical professionals.

Visura Technologies Inc .................................................. 740
8400 Normandale Lakes Boulevard
Suite 920
Bloomington, MN 55437
United States
Phone: +1 612-267-9827
VisuraTechnologies.com
Visura is delivering state-of-art visualization solutions to improve the safety and success of TEE probe intubation. The TEECAD System is the world’s first and only, FDA-cleared, disposable camera that seamlessly connects to a TEE probe, providing physicians real-time visualization for more efficient and effective probe placement to support safer intubation.

THE BARK PARK WILL BE OPEN DURING THE FOLLOWING HOURS:
SATURDAY, JUNE 15
12:00 – 6:30 PM
SUNDAY, JUNE 16
10:00 AM – 12:00 PM
Spend some time relaxing and socializing with dogs in ASE’s Bark Park in the Echo Expo. This experience is provided in partnership with the Oregon Humane Society (OHS), the largest animal welfare organization in the Northwest. OHS puts no time limits on how long animals remain at the shelter – a pet stays available for adoption as long as needed to find a loving home. These dogs are all adoptable!

Space for visitors to the Bark Park is limited to provide a safe environment for both attendees and the dogs.
The annual showcase of investigators from around the world presenting cutting-edge original research on the latest advances in cardiovascular ultrasound and cases illustrating evolutions in patient care is a highlight of ASE’s Annual Scientific Sessions.

Please visit ASEcho.org/2024Abstracts to see all the original science abstracts.

**CLINICAL CASES**
- Adult Patient Cases
- Critical Care Cases
- Pediatric & Congenital Patient Cases
- Multi-Modality Cases
- My Best Heart Team Cases
- Veterinary Medicine Cases
- Vascular Cases

**ORIGINAL SCIENCE – DISEASE/PATHOLOGY-BASED**
- Adult Congenital Heart Disease
- Athlete’s Heart
- Cardio-Oncology
- Critical Illness
- Cardio-Obstetrics
- Diseases of the Aorta / Vascular Diseases
- Echocardiography in SOE / Arrhythmias / Atrial Function
- Echocardiography in Systemic Diseases (DM, HTN, Obesity) / Pericardial Disease
- Echocardiography in Myocardial Disease (HCM, Amyloidosis, Sarcoidosis, Chagas)

**ORIGINAL SCIENCE – TECHNIQUE/PROCEDURE-BASED**
- 3D Echocardiography
- Artificial Intelligence / Machine Learning
- Contrast Echocardiography
- Doppler / Hemodynamics
- Perioperative Echocardiography
- Structural / Interventional Echocardiography (Operating Room and Interventional Lab)
- Developing Technology and Innovation
- Multi-Modality Imaging
- Quality / Practice Improvement / Education
- Ventricular Function / Myocardial Mechanics
- Value of Echocardiography (Quality & Cost) / Outcomes / Comparative Effectiveness
ASE gratefully acknowledges the following individuals for their contribution to the 35th Annual ASE Scientific Sessions as an Abstract Grader.

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**ABSTRACT CO-CHAIR**
Leo Lopez, MD, FASE

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Edward Gill, MD, FASE
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University of Chicago Medical Center, Chicago, Illinois

The National Board of Echocardiography proudly acknowledges Dr. Roberto Lang, the current President of NBE, for his outstanding recognition by ASE. Dr. Lang not only serves as the Chair of the SISIAC Writing Committee, spearheading NBE’s outreach efforts in South America, but also demonstrates unwavering commitment to ASE. We express our heartfelt gratitude for his years of dedicated service. NBE remains steadfast in its commitment alongside ASE to uphold excellence in echocardiography.
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Friday, June 14 - Sunday, June 16. Stop by and see us!

Cardiovascular Challenge
Friday, June 14 - Sunday, June 16 at 12 PM
Get up and moving! Track your steps taken during the weekend. Log your step totals each day and post on social media – be sure to tag @ASE360 and @CCIWholehearted.

Images from the Heart Photo Exhibit
Friday, June 14 - Sunday, June 16
Stop by to take in this year’s beautiful display featuring heart-felt photos taken by ASE members. Photos available for purchase with a donation in the photographer’s name.

15th Annual Research Awards Gala - Hyatt Regency Portland
Saturday, June 15 from 6:30 - 11:00 PM
Celebrate 15 years of cardiovascular ultrasound research and ASE’s 2024 Award Winners. Advanced tickets required.

The ASE Scientific Sessions is ASEF’s largest fundraising weekend. Stop by the ASEF Booth to make your donation or scan to donate now!

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15th Annual Research Awards

Crystal Gala

Presented by the ASE Foundation

Saturday, June 15, 2024

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Join us for a memorable black-tie event celebrating 15 years of cardiovascular ultrasound research and ASE’s 2024 award recipients.

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ASEFoundation.org/Gala2024

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ASE is the Society for Cardiovascular Ultrasound Professionals™. It is the largest global organization for cardiovascular ultrasound imaging serving physicians, sonographers, nurses, veterinarians, and scientists and as such is the leader and advocate, setting practice standards and guidelines for the field. The Society is committed to advancing cardiovascular ultrasound to improve lives. ASE has a very active and engaged social media presence on X, Facebook, and Instagram. The ASE YouTube channel has a wealth of educational options. ASE’s over 80 guidelines are available on the website and many have been translated into nine different languages. For more information about ASE, visit: ASEcho.org and follow us @ASE360.

ASE COUNCILS AND SPECIALTY INTEREST GROUPS

ASE has six councils that provide members with an opportunity to be involved with one or more subspecialty group to enhance their careers and knowledge. Council membership is free.

- Cardiovascular Sonography
- Circulation & Vascular Ultrasound
- Critical Care Echocardiography
- Interventional Echocardiography
- Pediatric and Congenital Heart Disease
- Perioperative Echocardiography

Specialty Interest Groups (SIGs) support members who have a common interest in specialized areas with growth potential in cardiovascular ultrasound. There are currently four SIGs that members can join for free.

- Cardio-Oncology
- Emerging Echo Enthusiasts
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This prestigious designation is only conferred upon a peer review of credentials specific to the field of cardiovascular ultrasound. ASE is proud to recognize these members for their dedication and accomplishments. Listed below are the 151 new FASE members who achieved this designation between June 2023 and April 2024. For a complete list of FASE, please visit SeeMyHeart.org. Learn more about applying for FASE at ASEcho.org/FASE.

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- Cardiovascular Sonographer Leadership Development
- Global Health Outreach
- Patient Engagement
- Research
- Travel Grants & Scholarships

Stop by the ASE Foundation booth, located in the Pre-Function C Lobby to:

- Learn more about fundraising events being hosted in Portland, such as the Annual Research Awards Gala and the Cardiovascular Challenge.
- View photos from our current and past curated exhibits.
- Pick up your “I GAVE TODAY” badge.
- Inquire about volunteer opportunities.
- Purchase an ASEF bracelet.

The Foundation booth will be open the following hours:

- Friday, 12:00 PM – 3:00 PM
- Saturday, 9:00 AM – 3:30 PM
- Sunday, 9:00 AM – 4:30 PM

Donate today and help us to make a world of difference!

CARDIOVASCULAR CHALLENGE
ASEF BOOTH, PRE-FUNCTION C LOBBY

Compete with your feet and get moving with the ASE Foundation Cardiovascular Challenge, sponsored by Cardiovascular Credentialing International. Sign up to participate at the ASEF Booth in Pre-Function C Lobby, then record your steps taken every day and log them at the booth. The top three steppers will win Amazon gift cards! The person with the most steps overall will receive $200, second place will receive $100, and the person with the third highest step count will receive $75. The winners will be announced Sunday, June 16, at 1:00 PM in the Echo Expo. Donations to the Foundation’s Global Health Outreach initiative are encouraged to help bring cardiac care around the world.

IMAGES FROM THE HEART PHOTOGRAPHS
ASEF BOOTH, PRE-FUNCTION C LOBBY

Stop by the ASE Foundation Booth to view breath-taking photographs, captured by ASE members. Many of the images are available to take home with a donation in the photographer’s name.

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This list recognizes cumulative giving from individual donors as of December 31, 2023. Cumulative giving levels are updated annually at the conclusion of that year’s Annual Appeal. These all-star donors deserve a round of applause for their support of cardiovascular ultrasound.

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