

American Society of Echocardiography

ASE2022

HYBRID

SOUND WAVES IN SEATTLE:
CONNECTING THE WORLD

June 10-13,
2022
Seattle, WA

33rd Annual Scientific Sessions
Seattle Convention Center

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FINAL PROGRAM

DEFINITY[®]

VIAL
FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

INDICATIONS

Activated DEFINITY[®] (Perflutren Lipid Microsphere) Injectable Suspension is indicated for use in patients with suboptimal echocardiograms to opacify the left ventricular chamber and to improve the delineation of the left ventricular endocardial border.

CONTRAINDICATIONS

Do not administer DEFINITY[®] to patients with known or suspected hypersensitivity to perflutren lipid microsphere or its components, such as polyethylene glycol (PEG).

IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS CARDIOPULMONARY REACTIONS

Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or following perflutren-containing microsphere administration [see *Warnings and Precautions (5.1)*]. 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.

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.

Please see brief summary of Prescribing Information, including boxed **WARNING** on subsequent pages.

Please see full Prescribing Information at www.DEFINITYimaging.com

IN THE US

4 out of 5

contrast-enhanced
echoes are performed
with DEFINITY^{®3}

INCLUDED IN OVER

2200

peer-reviewed
publications⁴

MORE THAN

18 million

studies performed⁵

REFERENCES:

1. Kurt M et al. J Am Coll Cardiol. 2009;53(9):802-810. 2. Becher H, et al. Heidelberg, NY: Springer-Verlag; 2000:2-44 3. ©2021 Millennium Research Group, Inc. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission. 4. Embase and Medline Search, May 2018 5. Data on file, Lantheus Medical Imaging, Inc.

See in High DEF(INITY)TM

A clearer echo. A better treatment plan.

Your decisions have real-life consequences. High DEF(INITY)TM, 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}



FIND > FIGHT > FOLLOW[™]

DEFINITY

VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

FOR INTRAVENOUS USE

BRIEF SUMMARY

Please see Full Prescribing Information available at www.DEFINITYimaging.com for additional information.

WARNING: SERIOUS CARDIOPULMONARY REACTIONS

See full prescribing information for complete boxed warning

Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or following perflutren-containing microsphere administration (5.1). Most serious reactions occur within 30 minutes of administration.

- Assess all patients for the presence of any condition that precludes DEFINITY administration (4).
- Always have resuscitation equipment and trained personnel readily available.

INDICATIONS AND USAGE

Activated DEFINITY (Perflutren Lipid Microsphere) Injectable Suspension is indicated for use in patients with suboptimal echocardiograms to opacify the left ventricular chamber and to improve the delineation of the left ventricular endocardial border.

DOSAGE AND ADMINISTRATION

Important Administration Instructions

- DEFINITY is intended for administration only after activation in the VIALMIX or VIALMIX RFID apparatus. Before injection, this product must be activated and prepared according to the instructions outlined below. The VIALMIX or VIALMIX RFID apparatus should be ordered from Lantheus Medical Imaging, 331 Treble Cove Road, North Billerica, MA, 01862. For customer orders call 1-800-299-3431
- DEFINITY may be injected by either an intravenous (IV) bolus or infusion. Do not administer DEFINITY by intra-arterial injection [see Warnings and Precautions].
- The maximum dose is either two bolus doses or one single intravenous infusion. The safety of bolus and infusion dosing in combination or in sequence, has not been studied.

Dosage

Bolus

The recommended bolus dose for activated DEFINITY is 10 microliters (microL)/kg of the activated product by intravenous bolus injection within 30 to 60 seconds, followed by a 10 mL saline flush. If necessary, a second 10 microliters (microL)/kg dose followed by a second 10 mL saline flush may be administered 30 minutes after the first injection to prolong contrast enhancement.

Infusion

The recommended infusion dose for activated DEFINITY is via an IV infusion of 1.3 mL added to 50 mL of preservative-free saline. The rate of infusion should be initiated at 4 mL/minute, but titrated as necessary to achieve optimal image enhancement, not to exceed 10 mL/minute.

CONTRAINDICATIONS

Do not administer DEFINITY to patients with known or suspected:

- Hypersensitivity to perflutren lipid microsphere or its components, such as polyethylene glycol (PEG) [see Warnings and Precautions].

WARNINGS AND PRECAUTIONS

Serious Cardiopulmonary Reactions

Serious cardiopulmonary reactions including fatalities have occurred uncommonly during or shortly following perflutren-containing microsphere administration, typically within 30 minutes of administration. The risk for these reactions may be increased among patients with unstable cardiopulmonary conditions (acute myocardial infarction, acute coronary artery syndromes, worsening or unstable congestive heart failure, or serious ventricular arrhythmias). Always have cardiopulmonary resuscitation personnel and equipment readily available prior to DEFINITY administration and monitor all patients for acute reactions.

The reported reactions include: fatal cardiac or respiratory arrest, shock, syncope, symptomatic arrhythmias (atrial fibrillation, tachycardia, bradycardia, supraventricular tachycardia, ventricular fibrillation, ventricular tachycardia), hypertension, hypotension, dyspnea, hypoxia, chest pain, respiratory distress, stridor, wheezing, loss of consciousness, and convulsions. [see Adverse Reactions].

Hypersensitivity Reactions

In postmarketing use, serious hypersensitivity reactions were observed during or shortly following perflutren-containing microsphere administration including:

Anaphylaxis, with manifestations that may include death, shock, bronchospasm, throat tightness, angioedema, edema (pharyngeal, palatal, mouth, peripheral, localized), swelling (face, eye, lip, tongue, upper airway), facial hypoesthesia, rash, urticaria, pruritus, flushing, and erythema.

These reactions have occurred in patients with no prior exposure to perflutren-containing microsphere products. DEFINITY contains PEG. There may be increased risk of serious reactions including death in patients with prior hypersensitivity reaction(s) to PEG [see Adverse Reactions (and Description)]. Clinically assess patients for prior hypersensitivity reactions to products containing PEG, such as certain colonoscopy bowel preparations and laxatives. Always have cardiopulmonary resuscitation personnel and equipment readily available prior to DEFINITY administration and monitor all patients for hypersensitivity reactions.

Systemic Embolization

When administering DEFINITY to patients with a cardiac shunt, the microspheres can bypass filtering by the lung and enter the arterial circulation. Assess patients with shunts for embolic phenomena following DEFINITY administration. DEFINITY is only for intravenous administration; do not administer DEFINITY by intra-arterial injection [see Dosage and Administration].

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 indices has been reported to cause ventricular arrhythmias. DEFINITY is not recommended for use at mechanical indices greater than 0.8 [see Dosage and Administration].

ADVERSE REACTIONS

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

- Serious Cardiopulmonary Reactions [see Warnings and Precautions]
- Hypersensitivity Reactions [see Warnings and Precautions]

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.

A total of 1716 subjects were evaluated in pre-market clinical trials of activated DEFINITY. In this group, 1063 (61.9%) were male and 653 (38.1%) were female, 1328 (77.4%) were White, 258 (15.0%) were Black, 74 (4.3%) were Hispanic, and 56 (3.3%) were classified as other racial or ethnic groups. The mean age was 56.1 years (range 18 to 93). Of these, 144 (8.4%) had at least one adverse reaction (Table 1). There were 26 serious adverse events and 15 (0.9%) subjects discontinued because of an adverse event.

Serious Adverse Reactions

Among the 1716 study patients, 19 (1.1%) suffered serious cardiopulmonary adverse reactions.

For all adverse reactions, the overall incidence of adverse experiences was similar for the <65 year age group and the > 65 year age group, similar in males and in females, similar among all racial or ethnic groups, and similar for bolus and infusion dosing. Table 1 summarizes the most common adverse reactions.

Table 1 New-Onset Adverse Reactions Occurring in ≥0.5% of All DEFINITY-Treated Subjects

	DEFINITY (N=1716)	
Total Number of Adverse Reactions	269	
Total Number of Subjects with an Adverse Reaction	144	(8.4%)
Body system		
Preferred term	n	(%)
Application Site Disorders	11	(0.6)
Injection Site Reactions	11	(0.6)
Body as a Whole	41	(2.4)
Back/renal pain	20	(1.2)
Chest pain	13	(0.8)
Central and peripheral nervous system disorder	54	(3.1)
Headache	40	(2.3)
Dizziness	11	(0.6)
Gastrointestinal system	31	(1.8)
Nausea	17	(1.0)
Vascular (extracardiac) disorders	19	(1.1)
Flushing	19	(1.1)

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 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 paresthesia

Platelet, Bleeding, and Clotting: Hematoma

Respiratory: Coughing, hypoxia, pharyngitis, rhinitis and dyspnea

Special Senses: Decreased hearing, conjunctivitis, abnormal vision and taste sensation

Skin: Pruritus, rash, erythematous rash, urticaria, increased sweating, and dry skin

Urinary: Albuminuria

Postmarketing Experience

In a prospective, multicenter, open-label registry of 1053 patients receiving DEFINITY in routine clinical practice, heart rate, respiratory rate, and pulse oximetry were monitored for 30 minutes after DEFINITY administration. No deaths or serious adverse reactions were reported, suggesting that these reactions are unlikely to occur at a rate of more than 0.3% when DEFINITY is used according to recommendations.

The following adverse reactions have been identified during the post-marketing use of perflutren 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 to establish a causal relationship to drug exposure.

Fatal cardiopulmonary and hypersensitivity reactions and other serious but non-fatal adverse reactions were uncommonly reported. These reactions typically occurred within 30 minutes of DEFINITY administration. These serious reactions may be increased among patients with pre-existing PEG hypersensitivity and/or unstable cardiopulmonary conditions (acute myocardial infarction, acute coronary artery syndromes, worsening or unstable congestive heart failure, or serious ventricular arrhythmias [see Warnings and Precautions]).

Reported reactions included:

Cardiopulmonary

Fatal cardiac or respiratory arrest, shock, syncope, symptomatic arrhythmias (atrial fibrillation, tachycardia, bradycardia, supraventricular tachycardia, ventricular fibrillation, ventricular tachycardia), hypertension, hypotension, dyspnea, hypoxia, chest pain, respiratory distress, stridor, wheezing.

Hypersensitivity

Anaphylaxis, with manifestations that may include death, shock, bronchospasm, throat tightness, angioedema, edema (pharyngeal, palatal, mouth, peripheral, localized), swelling (face, eye, lip, tongue, upper airway), facial hypoesthesia, rash, urticaria, pruritus, flushing, and erythema.

Neurologic

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

PATIENT COUNSELING INFORMATION

Advise patients to inform their healthcare provider if they develop any symptoms of hypersensitivity after DEFINITY administration, including rash, wheezing, or shortness of breath.

Distributed By
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N. Billerica, Massachusetts 01862 USA



For ordering, call toll free: 800-299-3431
All Other Business: 800-362-2668
(For Massachusetts and International, call: 978-667-9531)

Patent: <http://www.lantheus.com/patents/index.html>

515987-0221

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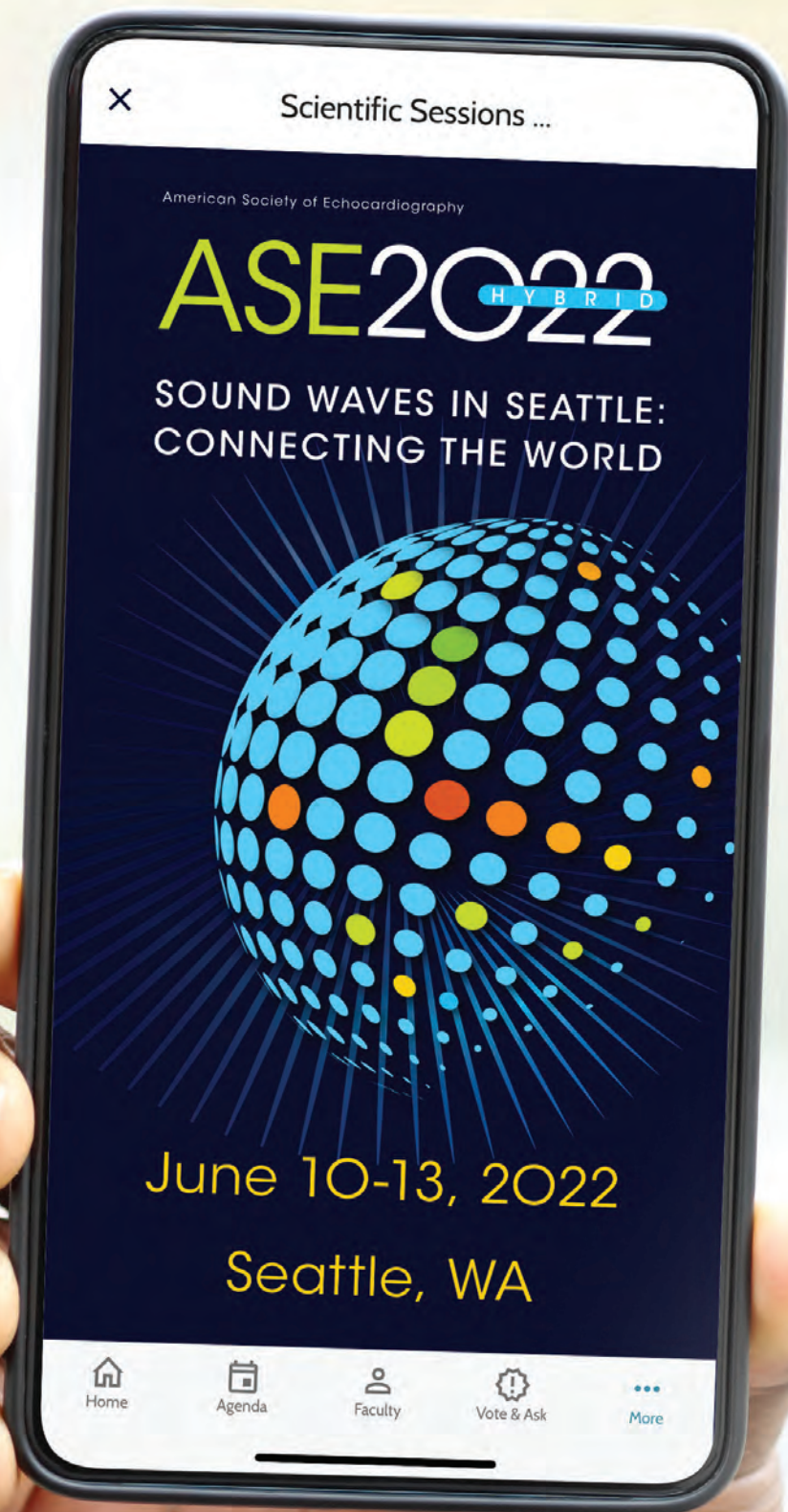
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Network: ASE2022
Password: echofirst

CONFERENCE OVERVIEW

	FRIDAY, JUNE 10	SATURDAY, JUNE 11	SUNDAY, JUNE 12	MONDAY, JUNE 13	
6:30 AM »					« 6:30 AM
7:00 AM »					« 7:00 AM
7:30 AM »					« 7:30 AM
8:00 AM »		33 rd Annual Edler Lecture & Awards Presentation	Sessions	23 rd Annual Feigenbaum Lecture & Weyman YIA Competition	« 8:00 AM
8:30 AM »					« 8:30 AM
9:00 AM »			Break S & T Theaters Theater 1: Abbott Theater 2: Pfizer		« 9:00 AM
9:30 AM »		Break			« 9:30 AM
10:00 AM »			Sessions	Break	« 10:00 AM
10:30 AM »		Sessions			« 10:30 AM
11:00 AM »					« 11:00 AM
11:30 AM »			S & T Theaters Theater 1: GE Healthcare Theater 2: Philips	Sessions	« 11:30 AM
12:00 PM »		LUNCH ON OWN	LUNCH		« 12:00 PM
12:30 PM »					« 12:30 PM
1:00 PM »				S & T Theaters Theater 1: Bracco Diagnostics Inc. Theater 2: Lantheus	« 1:00 PM
1:30 PM »		Sessions	Sessions Haluska Research Award Competition	LUNCH	« 1:30 PM
2:00 PM »			Break S & T Theater Theater 1: Ultromics		« 2:00 PM
2:30 PM »	Sessions	Break		Sessions	« 2:30 PM
3:00 PM »					« 3:00 PM
3:30 PM »	Break	Sessions		Break	« 3:30 PM
4:00 PM »			Sessions		« 4:00 PM
4:30 PM »	Council Networking Sessions	EXHIBITS OPEN S & T Theater Bristol Myers Squibb		Sessions	« 4:30 PM
5:00 PM »		President's Reception in the Echo Expo			« 5:00 PM
5:30 PM »	Welcome Reception Featuring ASE's Specialty Interest Groups				« 5:30 PM
6:00 PM »					« 6:00 PM
6:30 PM »					« 6:30 PM
7:00 PM »			ASE Foundation 13 th Annual Research Awards Gala 7:00-11:00 PM (Ticketed Event)		« 7:00 PM
7:30 PM »					« 7:30 PM
8:00 PM »					« 8:00 PM
8:30 PM »					« 8:30 PM

REGISTRATION

REGISTRATION

REGISTRATION

REGISTRATION

EXHIBITS OPEN

EXHIBITS OPEN

ASE2022

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“Sound Waves in Seattle: Connecting the World.”

It gives us immense pleasure to welcome you to the 33rd Annual ASE Scientific Sessions in Seattle, WA, June 10-13, 2022! We are finally together again in this beautiful “Emerald City.” While it is true that the world has changed in so many ways since our last in-person Scientific Sessions in Portland, Oregon in 2019, ASE continues to prevail by offering the premier cardiovascular ultrasound educational event of the year, in a first-ever hybrid format! Presentations from the main plenary room will be live-streamed for global access, while the remaining in-person live sessions will be additionally available remotely within a week after the meeting concludes. Extending beyond our live content, your registration includes 44 additional on-demand sessions to further enhance virtual connections with our members, echo enthusiasts, and multidisciplinary partners throughout the world.

Individual educational tracks will address both foundational concepts and evolving practice in the areas of circulation ultrasound; essentials of echocardiography including ischemic heart disease, stress, cardiomyopathy, and cardio-oncology; pediatric, congenital, and fetal echocardiography including the impact of COVID; structural heart disease, interventional and perioperative imaging; and innovation and technology, including artificial intelligence. You can see all the educational tracks outlined on page 11.

Our international partners, the European Association of Cardiovascular Imaging (EACVI) and the Japanese Society of Echocardiography (JSE), co-host joint sessions on Women in Echo, Global Artificial Intelligence, and Advances in Echo in Assessment of Congenital Heart Disease.

In recognition of our global interconnectedness and the climate crisis, our Gardin Lecture keynote speaker this year is Suzanne Simard, PhD, Professor of Forest Ecology at the University of British Columbia and author of *Finding the Mother Tree: Discovering the Wisdom of the Forest* (soon to be made into a Hollywood movie supported by Jake Gyllenhaal and Amy Adams!). Don't miss the book signing by Dr. Simard right outside Ballroom 6E during the break following her session.

Please avail yourself of the multiple social and networking opportunities throughout the meeting to meet new colleagues, broaden your interdisciplinary connections, and touch base with established friends and collaborators. For those of you who bought tickets, we look forward to seeing you at the ASE Foundation's Annual Research Awards Gala on Sunday evening, where we celebrate, recognize, and honor our esteemed colleagues!

We also sincerely hope that you, your colleagues, friends, and family will find some time to explore and enjoy the beautiful Seattle area, where you can participate in one-of-a-kind experiences from museum explorations to hiking to fine dining and wine tasting.

Here's to all that the 2022 Scientific Sessions has to offer as we reconnect, recharge, and re-energize!

Cheers,
Sharon and Carol



Sharon Mulvagh
Sharon Mulvagh, MD, FRCPC, FASE, FACC, FAHA
ASE 2022 Chair
Dalhousie University
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Carol Mitchell
Carol Mitchell, PhD, ACS, RDMS, RDGS, RVT, RTR, FASE, FSDMS
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NEW THIS YEAR

- On-site interactive “Do-it-Yourself (DIY)” hands-on scanning sessions.
- Council Networking Events and a Specialty Interest Group Welcome Reception on Friday afternoon.
- Special Sessions on World Alliance Societies of Echocardiography (WASE) Research in Depth and Top Echo Research of the Year: Innovations Today for Tomorrow's Practice.
- Speaker's Corner – Where conversations can continue beyond the formal sessions.
- ShowCASE – Interactive CASE competition.

RETURNING FAVORITES

- Great Debates featuring critical care, vascular, perioperative echo, and early career topics.
- Computer Learning Labs
- Research Presentations and Posters
- Chalk Talks
- Educator and Value Summits
- Veterinary Echo
- Pediatric Echo Jeopardy Game Show
- Feigenbaum, Edler, Gardin, Kerber, and Kalmanson Lectures
- Arthur E. Weyman Young Investigator and Brian Haluska Sonographer Research Award Competitions
- Science & Technology Theaters
- Dynamic Networking and Social Events
- ASE Foundation Annual Research Awards Gala

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*Circulation Track
Co-Chair*



Cathy West, MSc,
AMS, FASE
Member at Large



Timothy Woods,
MD, FASE
Member at Large



Luciana Young,
MD, FASE
*Pediatric/
Congenital Track
Co-Chair*

ADULT CONGENITAL HEART DISEASE (A)

In line with the ASE's PCHD Council, the ACHD track addresses the adult-specific congenital cardiovascular diseases. The esteemed faculty will be presenting relevant topics that cover a wide spectrum of ACHD. These highly educational ACHD sessions offer an enriching practical learning opportunity for sonographers, physicians, and ACHD specialists.

CIRCULATION (C)

ASE's Council on Circulation & Vascular Ultrasound has selected relevant topics and valuable presentations that cover a broad-spectrum of arterial and venous diseases. The program is focused on advancing knowledge and clinical practice in vascular conditions.

EARLY CAREER (EC)

The Early Career sessions this year was created by ASE's Emerging Echo Enthusiasts (E3) Specialty Interest Group. Career development sessions for sonographers and physicians, as well as knowledge translation across generations, debates, and a special faculty networking event have all been designed for early career physicians and sonographers.

IMAGING FUNDAMENTALS (F)

This track, designed by lead sonographer practitioners, focuses on basic to advanced echocardiographic concepts and practices for today's cardiac sonographer. These sessions will help to enhance and expand your practical and theoretical knowledge of echocardiography in the assessment of various cardiac diseases. This includes strain imaging and 3D echo. The Brian Haluska Sonographer Research Award Competition will showcase four of the best sonographer research abstracts for 2022.

INNOVATION/ TECHNOLOGY (IT)

The Innovation/Technology Track has been designed to communicate recent advances that improve quality. Topics include clinically-relevant innovations that improve diagnostic accuracy, quantification, workflow, and breakthrough cutting-edge technologies that will be used for treating the patients of tomorrow.

ISCHEMIA (I)

The Ischemia Track covers a diverse spectrum inclusive of obstructive and non-obstructive coronary diseases and stress echocardiography. Sessions will address physiology, pathophysiology, diagnosis, and clinical management using echocardiography and multimodality imaging.

MYOCARDIUM/ FUNCTION (M)

The Myocardium/Function Track addresses the core and advanced competencies of pathologies involving the myocardium and provides an update about standards of care. Included in this track are sessions on cardio-oncology and non-ischemic cardiomyopathies.

PEDIATRIC/ CONGENITAL (PC)

The ASE Council on Pediatric and Congenital Heart Disease (PCHD) has designed a program that will highlight echocardiography and advanced imaging modalities from fetus through adult. Established and upcoming experts in the field will come together to present sessions that will showcase global initiatives including COVID-19 after the pandemic, a fetal symposium, and the always popular Pediatric Echo Jeopardy.

PERIOPERATIVE (P)

The Perioperative Track, designed by ASE's Council on Perioperative Echocardiography, brings together cardiac anesthesiologists, sonographers, cardiologists, and surgeons with the goal of sharing knowledge in cardiovascular care and perioperative/periprocedural echocardiography.

POINT OF CARE (POC)

The Point of Care track focuses a wide spectrum of cardiovascular ultrasound applications by practitioners from diverse training backgrounds, and is inclusive of basic point of care ultrasound (POCUS) through advanced critical care echocardiography. Skillful acquisition, interpretation, and integration of POC findings assist in the rapid bedside diagnosis of important cardiovascular pathology.

RESEARCH (R)

Investigators will present the latest advances in cardiovascular ultrasound throughout the conference and in a new Top Echo Research of the Year: Innovations Today for Tomorrow's Practice session. Don't miss two special competitions designed to acknowledge exceptional research—the Brian Haluska Sonographer Research Award Competition and the prestigious Arthur E. Weyman Young Investigator's Award Competition, where the four best abstracts submitted compete in front of a panel of luminaries for international recognition. Also, meet the investigators during dedicated poster viewing times in the Echo Expo.

SPECIAL SESSIONS (S)

The 2022 Program Committee has designed the Special Sessions Track to highlight outstanding educational content. Join us for the special session ShowCASE for an exciting new case competition on Sunday afternoon. Other special sessions include Global Artificial Intelligence, Women in Echo, the Value Summit, and more.

VALVES & STRUCTURAL HEART DISEASE (V)

This track has been designed to integrate expertise from all members of the Structural Heart Team (including sonographers, cardiologists, cardiac anesthesiologists). Transcatheter interventions will be reviewed, providing case-based examples for learning. Sessions will highlight the success, challenges, and emerging tools of interventional echocardiography.

VETERINARY

ASE has become the professional home to many veterinarians who are interested in cardiovascular ultrasound. The ASE Veterinary Task Force has identified sessions marked with this symbol as topics of particular interest to our veterinary colleagues.

REGISTRATION INFORMATION

ATTENDEE REGISTRATION

The ASE Registration Desk is located in the Atrium Lobby Level 4 of the Seattle Convention Center. Attendees may pick up their conference materials and name badge at this location.

REGISTRATION HOURS

Friday, June 1012:00 PM – 6:30 PM
Saturday, June 116:00 AM – 6:15 PM
Sunday, June 126:30 AM – 5:00 PM
Monday, June 137:30 AM – 5:30 PM

COVID-19 VACCINATION REQUIREMENT

All participants (including attendees, faculty, and vendors) are required to be fully vaccinated to receive a name badge for the meeting. Participants will be asked to show proof of full vaccination at the Health & Safety Check Point before proceeding to the Registration Desk in the Atrium Lobby. Please review the ASE COVID-19 Live Course Statement ([ASEcho.org/Live-Course-Statement/](https://asecho.org/live-course-statement/)) for acceptable forms of providing proof of vaccination. Face masks are highly recommended when inside for all participants.

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), 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 33rd Annual ASE Scientific Sessions.

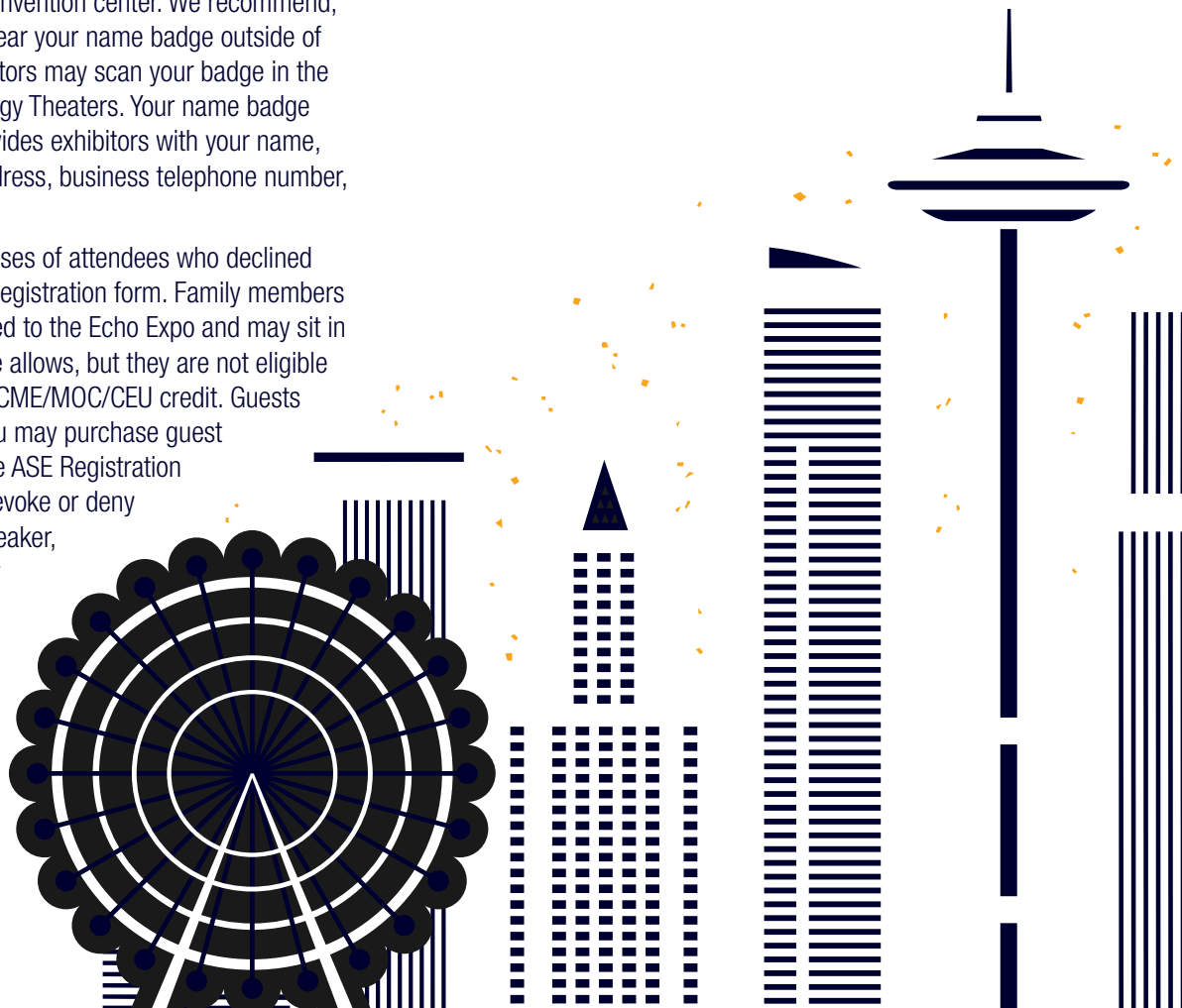
SPEAKER READY ROOM

Faculty name badges are available at the ASE Registration Desk during registration hours. Faculty will have to provide proof of vaccination before entering the Atrium Lobby and prior to picking up their name badge. The Speaker Ready Room is located in room 618-619 on Level 6 and staffed with technicians to assist faculty with uploading and previewing presentations. It is open during the following times:

Friday, June 10.....12:00 PM – 5:00 PM
Saturday, June 11.....6:00 AM – 4:30 PM
Sunday, June 126:30 AM – 4:30 PM
Monday, June 13.....7:30 AM – 4:30 PM

NEWS MEDIA

For information regarding news releases, news conferences, and interviews, please visit the ASE Registration Desk located in the Atrium Lobby Level 4 of the Seattle Convention Center. Copies of all news releases are also available on [ASEcho.org](https://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 #ASE2022 and follow @ASE360 for ASE’s breaking news.



The Seattle Convention Center's physical address is:

705 Pike Street Seattle, WA 98101

Located in the heart of Seattle, the Seattle Convention Center and ASE's headquarters hotels are within walking distance of world-class restaurants, entertainment, and attractions including Pike Place Market and the waterfront.

GETTING AROUND SEATTLE DURING ASE 2022

Seattle Center Monorail

Seattle Center Monorail provides a fun, quick, and convenient link between downtown Seattle and Seattle Center—home to the Space Needle, Pacific Science Center, Museum of Pop Culture, The Children's Museum, and a host of other venues. There is only one stop so you won't get lost! It takes about two minutes to get from one platform to the other.

Seattle Center Monorail departs approximately every 10 minutes from two stations:

- Westlake Center Station, at 5th Avenue and Pine Street (three-minute walk from Grand Hyatt Seattle, four-minute walk from Sheraton Grand Seattle)
- Seattle Center Station, adjacent to the Space Needle

Hours:

Monday-Friday: 7:30 AM – 9:00 PM

Saturday-Sunday: 8:30 AM – 9:00 PM

Ticket prices (one way):

- \$3.00 Adult (age 19-64)
- \$1.50 Youth (age 6-18)
- \$1.50 Reduced Rate (Seniors 65+, disabled, persons with Medicare cards, U.S. military with ID, ORCA LIFT cards accepted)
- Children age 5 and under ride free

Payment: Credit/debit cards and ORCA cards (cash is not accepted at this time).

Sound Transit Link Light Rail

Travels between Sea-Tac Airport and Westlake Center Mall (with stops along the way) to get to downtown. To get from Sea-Tac Airport to Westlake Center (the closest station to the ASE room block hotels), look for signs in the airport for Sound Transit Link Light Rail. Catch the light rail from Sea-Tac Airport and get off at Westlake Station. It is then a three-minute walk to the Grand Hyatt Seattle hotel, or a four-minute walk to the Sheraton Grand Seattle hotel. The Sound Transit Link Light Rail also travels from the Sea-Tac Airport to Seattle Center, home of the Space Needle and more!

FIRST AID

An emergency medical professional will be available during the hours of the ASE 2022 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. The medic is located in the Atrium Lobby Level 4.

LOST & FOUND

Questions regarding lost or found items can be directed to the ASE Registration Desk located in the Atrium Lobby Level 4 of the convention center.

LUGGAGE STORAGE

Luggage storage will be available at the Seattle Convention Center Friday-Monday near the Registration Desk in the Atrium Lobby Level 4 in the Waterfall Suite.

PRINTING AND SHIPPING SERVICES

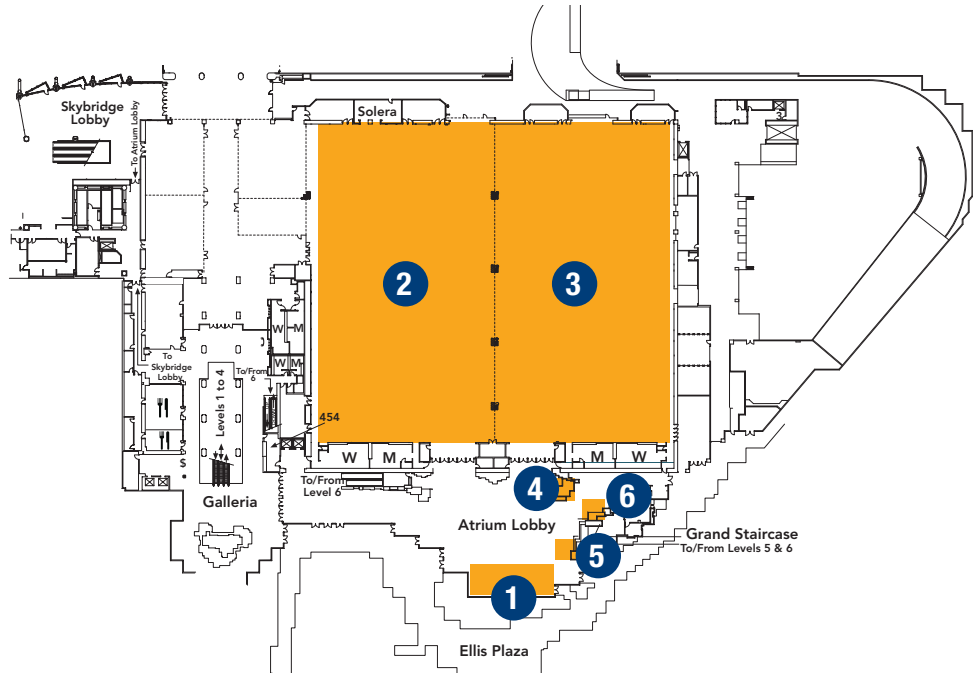
The Seattle Convention Center features a full-service FedEx Office business center, located on Level 1, which offers you virtually everything you need to meet your convention needs — from packing and shipping to signage, copying, and last-minute office supplies. The FedEx Office is open Monday – Friday - 9:00 AM to 4:00 PM, closed Saturday – Sunday. For business services needed on Saturday, two nearby FedEx offices are open 10:00 AM – 5:00 PM. 910 Lenora Street, Suite 172, is a 10-minute walk from the Seattle Convention Center and 816 3rd Avenue, is a 13-minute walk from the Seattle Convention Center.



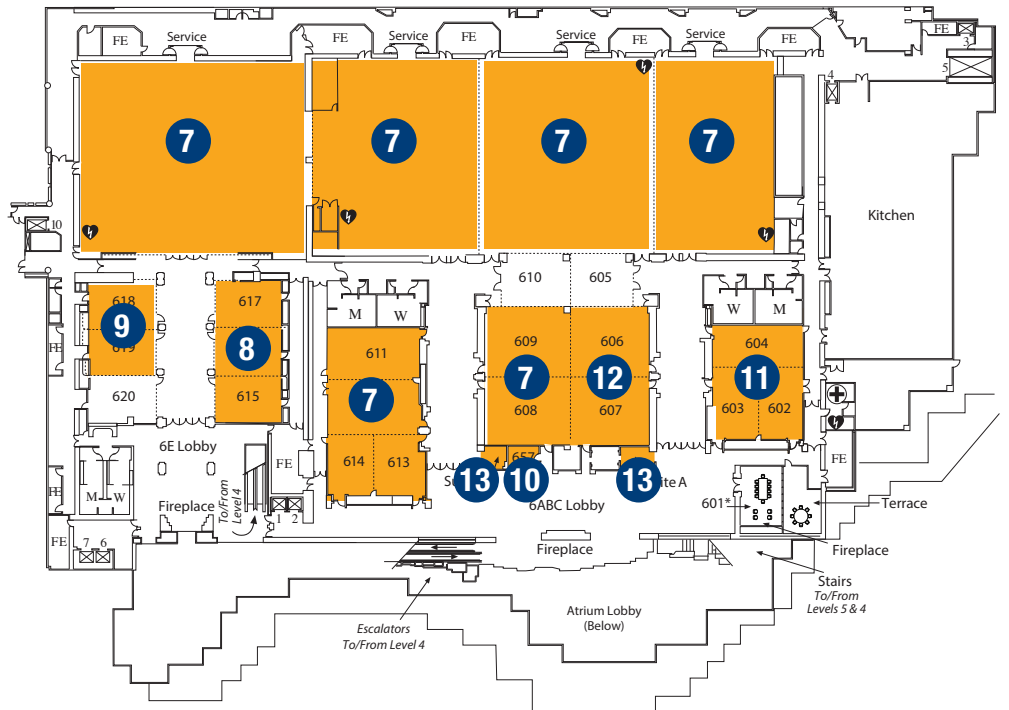
FACILITY MAP

- 1** Registration
- 2** Echo Expo
- 3** S & T Theaters
- 4** ASE Foundation
- 5** Speaker's Corner
- 6** Luggage Storage
- 7** Session Rooms
- 8** FASE Lounge
- 9** Speaker Ready Room
- 10** Product/Info Booth
- 11** Learning Lab
- 12** DIY Acquisition Room
- 13** Lactation Suites

LEVEL 4



LEVEL 6



FOOD FUNCTIONS

ASE will provide continental breakfast in the Lobby on Level 6, from 6:30 – 7:30 AM on Saturday and Sunday, and 7:30 – 8:30 AM on Monday. Morning and afternoon coffee breaks are available for registered attendees in the Echo Expo on Sunday, June 12, and Monday, June 13, and on Level 6, on Friday, June 10, and Saturday, June 11. Please refer to the Schedule at a Glance pages for the times of the daily morning, afternoon, and lunch breaks.

ASE will provide lunch on a first-come, first-served basis (max. 300 participants) for attendees of the Science & Technology Theaters, located in the Echo Expo on Level 4. See page 75 of this program for a detailed Science & Technology Theater schedule.

INTERNET ACCESS

Complimentary WiFi is available in the Seattle Convention Center.

Please use the following log-in information:

Network: ASE2022
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 COURSES APP

We encourage you to use your mobile device to download the ASE Courses app. After you have downloaded the app, you will have access to the entire meeting program at your fingertips. You can also use the app to ask questions during most of the sessions you attend. Please remember to turn your mobile device to silent or vibrate mode when in the sessions.

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 2022 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 2022 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 #ASE2022 when posting on social media, and be sure to tag @ASE360.

CHILD CARE

Working parents are an integral part of the ASE community. To accommodate families attending with children, ASE is pleased to offer professionally managed and staffed on-site child care services, for newborn to age 12, during the main conference days and hours for the 2022 Scientific Sessions. Please visit the ASE Registration Desk in the Atrium Lobby Level 4 if you need child care and have not already made a reservation. For their safety, children must be accompanied by an adult at all times when they are outside the child care room provided by ASE.

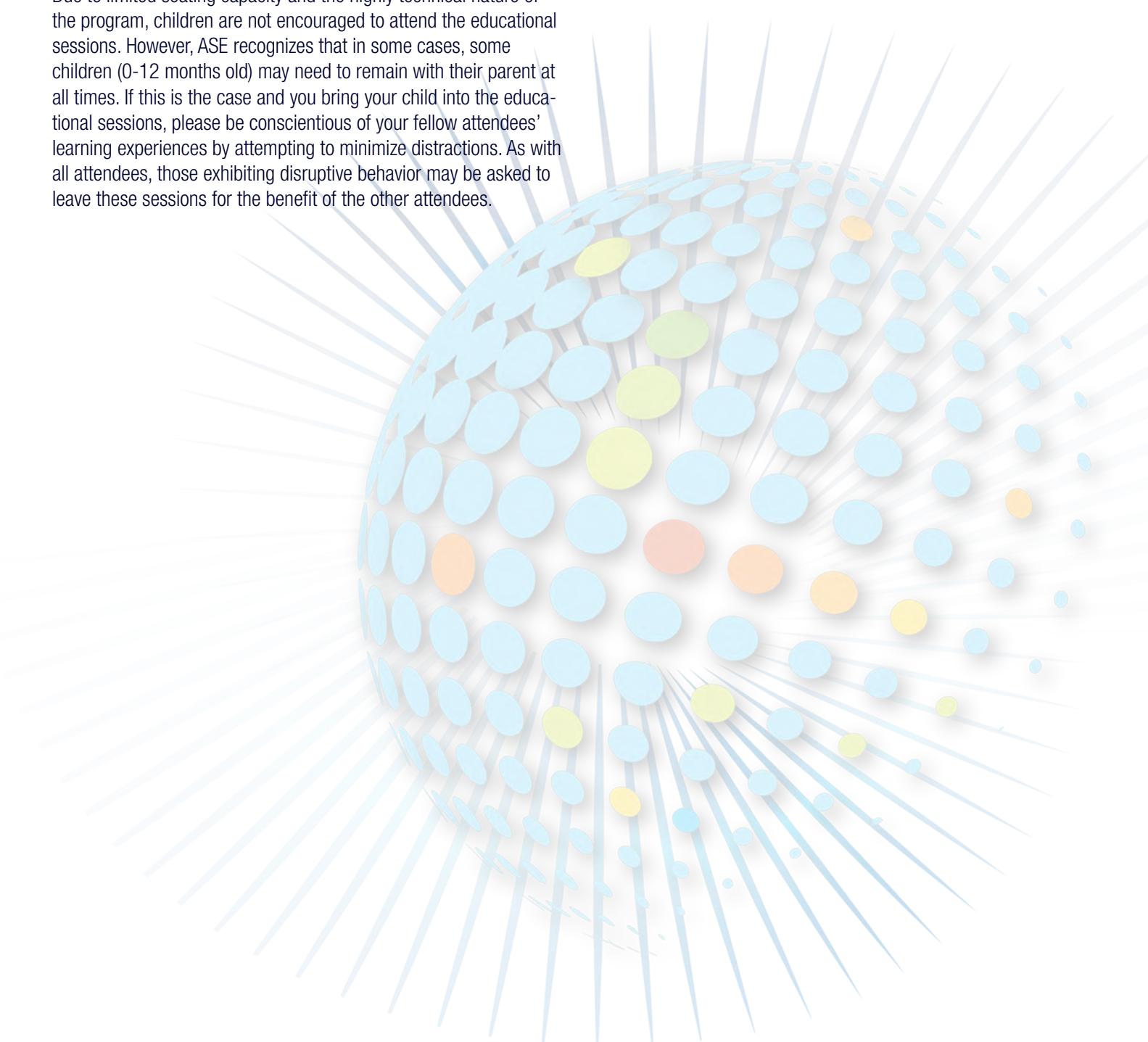
LACTATION ROOM

Suite A and Suite C on Level 6 of the Seattle Convention Center are designated as lactation rooms. These rooms are locked, but a key is available at the nearby ASE Products Booth on Level 6. The rooms will have standard AC power outlets. Access to a refrigerator is in the child care room.

CHILDREN RULES AND REGULATIONS

All children ages 16 and under must be accompanied at all times by their parent or guardian while in the Seattle 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 (0-12 months old) 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/CEU credit for the 33rd Annual ASE Scientific Sessions, please visit ASEScientificSessions.org/CME for instructions.

ASE 2022 In-Person CME

Registration includes up to 23 CME/MOC credits (see the breakdown of daily, in-person hours below), 44 additional on-demand sessions for up to an additional 52 CME/MOC credits, and access for 90 days from Monday, July 11, 2022 to Sunday, October 9, 2022.

Friday – 1.5
Saturday – 7.5
Sunday – 8
Monday – 6

Total In-Person – **23 CME hours**
Total for 44 On-Demand sessions – **52 CME Hours**
TOTAL CME/MOC CREDITS AVAILABLE FOR BOTH LIVE AND ON-DEMAND: 75

The CME evaluation for in-person will be available June 13, 2022. Attendees must claim credit for the in-person event by July 13, 2022.

ASE 2022 Virtual CME

Registration includes live streaming from the main plenary room, up to 20 CME/MOC credits (see the breakdown of daily, live streaming hours below), 44 additional on-demand sessions for up to an additional 52 CME/MOC credits, and access for 90 days from Monday, July 11, 2022 to Sunday, October 9, 2022.

Saturday – 6.5
Sunday – 7
Monday – 6.5

Total Live Streaming Sessions – **20 CME hours**
Total for 44 On-Demand sessions – **52 CME Hours**
TOTAL CME/MOC CREDITS AVAILABLE FOR BOTH LIVE AND ON-DEMAND: 72

The CME evaluation for the live streamed sessions will be available June 13, 2022. Attendees must claim credit for the live streamed sessions by July 13, 2022.

The deadline to claim credit for the on-demand sessions is November 9, 2022.

TARGET AUDIENCE

The ASE 2022 Scientific Sessions Virtual Experience 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, and nurses. Attendees are encouraged to interact with available faculty using the chat feature in the platform, at the Speaker's Corner, and also to take advantage of the opportunity to gain new expertise.

INTERACTIVE SESSIONS: ASK QUESTIONS

The ASE Courses app contains detailed information on each of ASE's live courses. You will find faculty, agendas, exhibitors, networking events, and more. Use the app on-site to create your own event schedule and receive notifications of special activities. You can download the app by going to the appropriate link below or by searching for ASE Courses in the Apple or Google Play store.

iOS: <http://apple.co/2oQyl3z>

Android: <http://bit.ly/2pfaIJD>

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

1. Open the ASE 2022 Scientific Sessions Event
2. Select "Vote and Ask" on the main screen to access the sessions.
3. Select the Session you are attending.
4. Select the Interactive Tab
5. Select "Ask."
6. Enter your question and tap the red symbol in the bottom right corner of the screen.



CME & EDUCATION INFORMATION

DISCLAIMER

The information provided during this CME 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

The Adult Congenital Heart Disease track and the Valves and Structural Heart Disease track are supported in part by an unrestricted educational grant provided by Medtronic.

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 from: FUJIFILM Healthcare Americas Corporation, GE Healthcare, Lantheus, Philips, and Siemens Healthineers.

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.

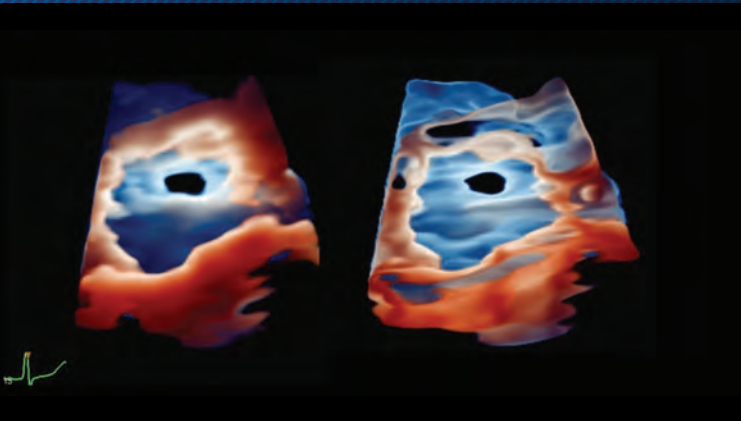
Upon completion of this course, participants should be better able to:

1. Recognize the role of multimodality imaging of cardiomyopathy associated with systemic or metabolic disorders.
2. Demonstrate understanding of a comprehensive echo in a variety of settings and patient presentations.
3. Approach common and uncommon vascular patients with vascular ultrasound and echocardiogram.
4. Approach the use of POCUS for unstable patients or those in critical care.
5. Understand echocardiographic predictors of outcomes in patients with congenital heart disease and cardiomyopathies.
6. Examine emerging and innovative technologies in the care of children and adults in relation to care involving echocardiography scanning.
7. Gain insights into the future of imaging of children with heart disease, innovations in technology, neonatal echocardiography, and more.

UP TO \$1.1M

NOW ACCEPTING APPLICATIONS

GRANT FUNDING OPPORTUNITY



Application Deadline: August 31, 2022, 5:00 PM ET

ASE, through its Foundation and with the support of Edwards Lifesciences, invites eligible organizations and institutions to apply for a new funding opportunity related to newly diagnosed severe valvular heart disease patients.

This grant, worth up to \$1.1 million, is intended to support research examining the impact of embedded echocardiography report interventions on referral patterns and outcomes in patients newly diagnosed by echocardiography with severe aortic stenosis.

Learn More and Apply at ASEFoundation.org/Impact-of-Echo-SVD

ACCREDITATION AND DESIGNATION

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Society of Echocardiography and the ASE Foundation.

ASE is accredited by the ACCME to provide continuing medical education (CME) for physicians. ASE designates the 33rd Annual ASE Scientific Sessions for a maximum of 75 *AMA PRA Category 1 Credits™* for attending the entire conference.

Attendees should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity enables the participant to earn up to 75 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is ASE's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

Successful completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn up to 15.75 MOC points in the American Board of Pediatrics' (ABP) Maintenance of Certification (MOC) program. Sessions in the PC Track and identified by this symbol ❖ count toward the 15.75 MOC points. It is ASE's responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

Successful completion of this CME activity enables the participant to earn up to 75 MOCA® points in The American Board of Anesthesiology® (ABA) Maintenance of Certification in Anesthesiology Program® or MOCA®. It is ASE's responsibility to submit participant completion information to ACCME for the purpose of granting ABA MOCA® credit.

ARDMS, CCI, and Sonography Canada recognize ASE's certificates and have agreed to honor the credit hours toward their registry requirements for sonographers.

This activity has been reviewed by the AAPA Review Panel and is compliant with AAPA CME Criteria. This activity is designated for 52 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation. Approval is valid from 6/10/2022 to 6/13/2022. AAPA reference number: CME-206066.

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 both ReASCE® and RePTE® recertification. This activity contains 70 *AMA PRA Category 1 Credits™* that can be used toward recertification requirements.

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 educational programs are not influenced by the special interests of any corporation or individual, and its mandate is to retain only those speakers whose financial interests can be effectively resolved to maintain the goals and educational integrity of the program. While a monetary or professional affiliation with a corporation does not necessarily influence a speaker's presentation, the Essential Areas and policies of the ACCME require that any relationships that could possibly conflict with the educational value of the program be resolved prior to the educational session and disclosed to the audience. In accordance with these policies, ASE implemented mechanisms prior to the planning and implementation of this CME activity to identify and resolve conflicts of interest for all individuals in a position to control content. Disclosure information is referenced and can be found beginning on page 20 of this program.



Maintenance of Certification in Anesthesiology Program® and MOCA® are registered certification marks of the American Board of Anesthesiology®. MOCA 2.0® is a trademark of the American Board of Anesthesiology®.

ASE 2022 SPEAKER DISCLOSURES

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 33rd 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.
- ✦ 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, to include 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 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. Disclosure information is referenced below.

ACCME defines an ineligible company as 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 (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 2022 SPEAKER DISCLOSURES

Adams, D.	Caption Health (2); ESP Registry Review (1); Caption Health (3)	Perry, R.	TOMTEC, GE Healthcare (1)
Aday, A.	OptumCare (2)	Phelan, D.	Bristol Myers Squibb (Speaker/Speaker Bureau, 2); Pfizer (2)
Altman, C.	UpToDate (6)	Piazza, G.	BMS/Pfizer, Janssen, BSC, Amgen, Bayer, Alexion (4)
Armstrong, A.	Abbott, Edwards Lifesciences, Medtronic (2)	Roberson, D.	Philips Ultrasound (1)
Becher, H.	Lantheus (1); Ultronic (2,4); University of Alberta Hospital (2)	Rubin, J.	Endra Corporation (2, 3); GE Voluson, Philips Ultrasound (5)
Bhatt, H.	NoeChord, LLC (2)	Salerno, M.	GE, Siemens Healthineers (7); Valo Health (2)
Billick, K.	Caption Health, Lantheus Medical Imaging (2)	Saric, M.	Abbott, Boston Scientific, Medtronic (1)
Bourque, D.	Lantheus (1)	Sengupta, P.	Kencor Health, RCE Technology, Ultrasonics (2)
Chen, T.	Intrinsic Imaging, LLC (2)	Shah, A.	Janssen (2); Philips Ultrasound (2, 4)
Chetrit, M.	Alnylam, Pfizer (2)	Shook, D.	Edwards Lifesciences, Baylis (7)
Choi, A.	Cleerly, Inc. (3); Siemens Healthineers (2)	Soslow, J.	Esperare (2)
Crandall, I.	Lantheus (2)	Steinberg, Z.	Medtronic (2)
Cuddy, S.	Pfizer, Ionis, BridgeBio (1)	Stepien, R.	Boehringer-Ingelheim Vetmedica (1)
Davidson, B.	namar (2)	Strom, J.	Bracco Diagnostics (2); Anumana, Edwards Lifesciences, HeartSciences, Ultrasonics (4); Northwest Imaging Forums (1)
Dillenbeck, A.	Bracco (2)	Swaminathan, M.	Alexion (2)
Dorbala, S.	Attralus, GE Healthcare, Philips, Pfizer (4)	Thamman, R.	Bayer (2)
Douglas, P.	UpToDate (7); HeartFlow (4)	Thomas, J.	Caption, egnite, GE Healthcare (2)
Dversdal, R.	Vave Health (5)	Truong, D.	Pfizer (4)
Enriquez-Sarano, M.	Artivion, ChemImage, Edwards Lifescience (2)	Tsang, W.	Philips Healthcare (2, 4)
Falconi, M.	Philips, Agimed (1)	Vannan, M.	Lantheus, Siemens Healthineers (4)
Frye, C.	GE, Optison (1)	Walling, S.	Lantheus Medical Imaging (1)
Garg, R.	Abbott (2)	Wong, P.	Sobi, Inc. (1); Zogenix, Inc. (2)
Gillam, L.	Bracco, Philips (2); Edwards Lifesciences, Medtronic (4)	Yamat, M.	Philips (2)
Green, T.	Bristol Myers Squibb (2); Lantheus Medical Imaging (7)	Yared, K.	Boehringer-Ingelheim, Pfizer, Servier (1)
Hahn, R.	Novartis, Navigata (2)		
Han, Y.	GE (1); Vertex, Inc. (2)		
Harb, S.	Abbott, Boston (2)		
Henkin, S.	Pfizer (2)		
Hill, J.	Philips Healthcare (1)		
Hoit, B.	Philips (1)		
Horowitz, J.	Inari Medical (2)		
Horton, K.	Caption Health (2)		
Ishizu, T.	Canon Medical Systems (4)		
Jain, A.	Mallinckrodt Pharmaceuticals (4)		
Jain, R.	Medtronic (2)		
Jankowski, M.	Bristol Myers Squibb, Caption Health, Echo IQ (2)		
Kaul, S.	Orcorazon, Vasocardea (5); Ultrasonics (2)		
Kelly, N.	Abbott (1)		
Khalique, O.	Abbott Structural (2); Edwards Lifescience (1)		
Kisslo, J.	Philips Medical (1)		
Klein, A.	Cardiol Therapeutics (2); Kiniksa (4, 2); Pfizer (2)		
Kort, S.	Medtronics, (2)		
Kraushaar, M.	Epsilon Imaging (1)		
Lindner, J.	Lantheus (4)		
Liu, J.	Caelum (7); Caption Health, Philips (2); Johnson & Johnson (4)		
Liu, R.	Butterfly Network, Philips, Caption Health (2)		
Luoma, C.	Ionis Pharmaceuticals, Inc. (3)		
Mackensen, G.	Abbott (2)		
Martin, R.	Caption Health (3); Edwards Lifescience (1); Medtronic (1,2)		
McCabe, J.	Boston Scientific, Edwards, Medtronics (2)		
McCartney, S.	Humacyte, Inc. (2)		
Mendez, B.	Novartis, Servier, Sanofi (1)		
Michelena, H.	Artivion/Cryolife, Biostable Engineering, Artivion/Cryolife (2)		
Mitchell, C.	Elsevier (7); W.L. Gore & Associates (4)		
Morris, S.	Ayto Biopharma (2)		
Nesbitt, G.	Bristol Myers Canada (2)		
Olson, J.	ICUS International Contrast Ultrasound Society, Northwest Imaging Forums (1); Philips CV (2)		
Pandey, A.	Applied Therapeutics, Gliead (4); Lilly, Roche, Tricog Health, Rivus Pharma (2)		
Pandian, N.	Bristol Myers Squibb, Lantheus (1)		
Park, M.	Lantheus Medical Imaging (1)		
Parker, M.	TOMTEC (1)		
Parthiban, A.	Edwards Life Sciences (4)		
Parwani, P.	Astrazeneca (1); Medtronic (2)		
Pellikka, P.	Edwards Lifesciences, GE Healthcare, Ultrasonics (Research Grant Support, including PI)		

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Abraham, T.; Acevedo, J.; Addetia, K.; Ahmed, S.; Akhter, N.; Albulushi, A.; Anantha, M.; Anantha, M.; Anderson, B.; Angulo, C.; Amaout, R.; Arya, B.; Asch, F.; Astbury, J.; Attar, R.; Ayres, N.; Ayuba, G.; Balasubramanian, S.; Banchs, J.; Barac, A.; Barker, P.; Bella, J.; Benenstein, R.; Bergeron, C.; Betz, J.; Bharucha, T.; Bhat, A.; Bhatt, A.; Biancolini, M.; Borchers, H.; Border, W.; Brabender, J.; Bremer, M.; Brook, M.; Buber, Y.; Buddha, S.; Burgess, P.; Busse, C.; Cantu, M.; Cassidy, C.; Chandrasekhar, M.; Chow, C.; Cifra, B.; Clouse, M.; Cobey, F.; Cohen, M.; Collier, P.; Collins, K.; Connolly, H.; Cordio, M.; Corneli, M.; Corretti, M.; Cosyns, B.; Cote, E.; Cotella, J.; Coutinho, T.; Cuffee, H.; Cuneo, B.; Dang, G.; Deen, J.; DeFariaYeh, D.; del Alamo, J.; Delgado, V.; DeMaria, A.; Dewar, A.; Diaz-Gomez, J.; DiMaria, M.; Donal, E.; Donofrio, M.; Doucet, S.; Dudzinski, D.; Dugar, S.; Dunbar, C.; Dwyer, J.; Earing, M.; Edvardsen, T.; Edwards, N.; Eidem, B.; Elbaum, L.; El-Tallawi, C.; Enger, N.; Ensing, G.; Faloye, A.; Fan, D.; Fanola, C.; Farias, S.; Farooqi, K.; Fey, B.; Fleishman, C.; Forsha, D.; Forshaw, T.; Frank, L.; Freed, B.; Friedberg, M.; Fuchs, M.; Gallagher, A.; Gallagher, A.; Garcia-Sayan, E.; Gardin, J.; Gardner, D.; Gibson, K.; Gill, E.; Gonzalez, J.; Goulding, J.; Graham-Hill, S.; Graham-Hill, S.; Groves, A.; Hamid, N.; Harrild, D.; Hayes, H.; Hays, A.; Hepinstall, M.; Houten, T.; Hua, L.; Hung, J.; Ignatowski, D.; Ivan, J.; Iwanaga, S.; Janardhanan, R.; Jeevanandam, V.; Jensen, S.; Johri, A.; Jone, P.; Juras, R.; Kabir, S.; Kaminski, A.; Kane, G.; Karagodin, I.; Karamlou, T.; Kavanaugh-Mchugh, A.; Kelsey, A.; Kerber, L.; Khan, U.; Khandheria, B.; Khoo, N.; Kim, E.; Kim, J.; Kirkpatrick, J.; Klassen, S.; Knoll, P.; Koenig, P.; Kovalchin, J.; Kramer, C.; Kuester, K.; Kumar, N.; Kutty, S.; Kwan, G.; Labovitz, A.; Lai, W.; Landeck, B.; Lang, R.; Lanspa, M.; Le, E.; Le, L.; LeFevre, M.; LeFevre, M.; LeLeiko, R.; Leong-Poi, H.; Lester, S.; Lewin, M.; Lipinski, J.; Little, S.; Lopez, L.; Lopez, K.; Lopez-Mattei, J.; Lowenstein, J.; Lu, J.; Lui, G.; Ma, I.; Maganti, K.; Makhoul, M.; Maldonado, Y.; Mankad, R.; Mankad, S.; Markowitz, J.; Marsiglio, C.; Marwick, T.; Maskatia, S.; Mayer, S.; Mayo, P.; McCullough, D.; McIlwain, E.; McMullan, M.; McVadon, D.; Mercer-Rosa, L.; Mertens, L.; Miglioranza, M.; Miyoshi, M.; Moon-Grady, A.; Mukherjee, M.; Mulvagh, S.; Myoshi, T.; Nagueh, S.; Nanda, N.; Ndayizigiye, M.; Nelson, L.; Nelson, J.; Nguyen, T.; Nichols, K.; Nield, L.; Nikravan, S.; Olivieri, L.; Olson, B.; Otto, C.; Ouyang, D.; Palma, R.; Pai Cole, S.; Panebianco, N.; Park, D.; Parra, D.; Patel, A.; Pearlman, A.; Pellett, A.; Pereira, J.; Pinto, N.; Pislaru, S.; Porter, T.; Powell, A.; Prado, A.; Prakash, A.; Pressman, G.; Puchalski, M.; Quader, N.; Rahko, P.; Ramzy, D.; Renno, M.; Richards, B.; Rigolin, V.; Rivera, I.; Roberts, B.; Robinson, S.; Rogers, L.; Rose, G.; Rudski, L.; Ryan, T.; Sachdev, V.; Sachdeva, R.; Sade, L.; Sadeghpour, A.; Safi, L.; Sanborn, D.; Sanchez, C.; Saurers, D.; Schaaf, J.; Scherrer-Crosbie, M.; Schwaegler, B.; Schweitzer, M.; Scott, N.; Seed, M.; Senussi, M.; Shah, D.; Shamoun, F.; Sheu, R.; Shirali, G.; Siu, S.; Slesnick, T.; Smer, A.; Soni-Patel, N.; Soriano, B.; Sorrell, V.; Srivastava, S.; Stacey, R.; Stainback, R.; Stauffer, K.; Stern, K.; Stout, K.; Strachan, G.; Subramaniam, K.; Sugeng, L.; Sunthakar, S.; Szeto, K.; Tacy, T.; Takigiku, K.; Taub, C.; Taylor, C.; Teran, F.; Thaden, J.; Thibodeau-Jarry, N.; Thompson, K.; Thompson, T.; Thorson, K.; Tierney, E.; Troianos, C.; Umland, M.; Useinovic, M.; Vadlamudi, R.; Vainrib, A.; Venegas, C.; Villemain, O.; Vivekanandan, A.; Vorsanger, M.; Votava-Smith, J.; Wali, E.; Warmsbecker, J.; Wasserman, M.; Wedin, J.; Weissman, N.; Wells, B.; West, C.; White, A.; Wiener, D.; Woo, A.; Wright, L.; Wright, R.; Young, L.; Yu, A.; Zimmerman, K.; Zoghbi, W.

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SCHEDULE AT A GLANCE

FRIDAY, JUNE 10

All times are Pacific time.

REGISTRATION OPEN 12:00 – 6:30 PM				
ROOM	BALLROOM 6B	BALLROOM 6C	ROOM 611-612	ROOM 608-609
2:00 – 3:30 PM	  Echo Path Session	 What's to Gain from Strain	 IAC Echocardiography Boot Camp	 From POCUS/Critical Care Echocardiography Specialty Interest Group to Critical Care Echocardiography Council: A Transformative Intersocietal Collaboration
3:30 – 3:45 PM	REFRESHMENT BREAK			
3:45 – 5:30 PM	COUNCIL ON CARDIOVASCULAR SONOGRAPHY NETWORKING EVENT	 COUNCIL ON PEDIATRIC AND CONGENITAL HEART DISEASE NETWORKING EVENT AND NOMENCLATURE FEST	COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY NETWORKING EVENT	COUNCIL ON CIRCULATION AND VASCULAR ULTRASOUND NETWORKING EVENT
5:30 – 6:30 PM	WELCOME RECEPTION FEATURING ASE'S SPECIALTY INTEREST GROUPS – Ellis Plaza (outdoors) and Atrium Lobby 			

ACHD (A) CIRCULATION (C) EARLY CAREER (EC) IMAGING FUNDAMENTALS (F) INNOVATION/TECHNOLOGY (IT) ISCHEMIA (I) MYOCARDIUM/FUNCTION (M)
PEDIATRIC/CONGENITAL (PC) PERIOPERATIVE (P) POINT OF CARE (POC) RESEARCH (R) SPECIAL SESSIONS (S) VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC ■ BASIC/INTERMEDIATE ▲ INTERMEDIATE ◆ INTERMEDIATE/ADVANCED ◆ ADVANCED ★ BASIC/INTERMEDIATE/ADVANCED

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



Welcome Reception Featuring ASE's SPECIALTY INTEREST GROUPS (SIG)

Ellis Plaza (outdoors, weather permitting)
& Atrium Lobby Level 4

FRIDAY, JUNE 10: 5:30 – 6:30 PM

Each of the ASE Specialty Interest Groups (SIG) will have a designated area to gather that will make it easy for attendees to interact with and learn about the SIGs. The Welcome Reception will take place in Ellis Plaza (outdoors, weather permitting) and Atrium Lobby Level 4.

- Critical Care Echocardiography (transitioning to a Council in July 2022)
- Emerging Echo Enthusiasts
- Interventional Echocardiography (transitioning to a Council in January 2023)
- Neonatal Hemodynamics TnECHO
- Cardio-Oncology
- Veterinary

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Daniel Bourque, MS,
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Patrick Collier,
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Abimbola Faloye,
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Daniel Forsha,
MD, MCS, FASE



Madeline Jankowski,
BS, RDCS,
ACS, FASE



Noreen Kelly, MD,
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MD, FASE



Marcelo Miglioranza,
MD, PhD, FASE



Matthew Parker,
MD, FASE



Nina Rashedi,
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Richard Sheu,
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2:00 PM – 3:30 PM

PC **Echo Path Session – Ballroom 6B**

Chairs: A. Bhat, B. Landeck

2:00 PM – 2:12 PM

Fetal Diagnosis

N. Pinto

2:12 PM – 2:27 PM

Path

L. Rogers

2:27 PM – 2:39 PM

Neonatal Assessment

J. Lipinski

2:39 PM – 2:51 PM

Surgical Repair

M. McMullan

2:51 PM – 3:03 PM

Pitfalls and Challenges in the Post-Op Follow-up

M. Renno

3:03 PM – 3:15 PM

Multimodality Imaging in the Adult

A. Prakash

3:15 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

F **What's to Gain from Strain – Ballroom 6C**

Chairs: A. Pearlman, M. Umland

2:00 PM – 2:02 PM

Session Introduction

A. Pearlman

2:02 PM – 2:10 PM

Case Intro

M. Jankowski

2:10 PM – 2:22 PM

The Nitty-Gritty of Strain Imaging

J. Hill

2:22 PM – 2:34 PM

Tips & Tricks for Strain Imaging

D. Bourque

2:34 PM – 2:46 PM

Abnormal Strain Patterns in “Left Ventricular Hypertrophy”

D. Phelan

2:46 PM – 2:58 PM

Strain for the Right Ventricle & Left Atrium

M. Kraushaar

2:58 PM – 3:10 PM

Clinical Value of Myocardial Work

T. Marwick

3:10 PM – 3:20 PM

Case Conclusion

M. Jankowski

3:20 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

S **IAC Accreditation Boot Camp – Room 611-612**

Chair: K. Gibson

Panelists: C. Fleishman, E. Garcia-Sayan, B. Richards, R. Sheu

IAC Boot Camp: Accreditation Simplified

A. Groves, S. Jensen

Quality Improvement in the Echo Lab

M. Bremer

Ask the Experts: Panel Discussion and Audience Question & Answer

Wrap-up

2:00 PM – 3:30 PM

POC **From POCUS/CCE SIG to CCE Council:
A Transformative Intersocietal Collaboration –
Room 608-609**

Chairs: A. Labovitz, N. Panebianco

2:00 PM – 2:15 PM

History of the POCUS/CCE Specialty Interest Group (SIG)

A. Labovitz

2:15 PM – 2:30 PM

The Value of Intersocietal Collaboration Through POCUS and CCE

N. Panebianco

2:30 PM – 2:45 PM

Understanding Non-Cardiology POCUS/CCE Practitioners

S. Kort

2:45 PM – 3:00 PM

Vision for CCE Council Guidelines

P. Mayo

FRIDAY, JUNE 10 SCHEDULE

3:00 PM – 3:15 PM

The Future of POCUS and CCE in the Clinical Practice
S. Mulvagh

3:15 PM – 3:30 PM

Question & Answer

3:45 PM – 5:30 PM

Council on Cardiovascular Sonography Networking Event – Ballroom 6B

Chair: Keith Collins, MS, RDCS, FASE

Chair-Elect: G. Monet Strachan, ACS, RDCS, FASE

3:45 PM – 5:30 PM

🩺 Council on Pediatric and Congenital Heart Disease Networking Event and Nomenclature Fest – Ballroom 6C

Chair: Carolyn Altman, MD, FACC, FAHA, FASE

Chair-Elect: Craig Fleishman, MD, FASE

Nomenclature Fest

Chairs: M. Brook, T. Slesnick

Team A

M. Cohen, G. Ensing, L. Lopez

Team B

N. Ayres, B. Eidem, A. Powell

Team C

P. Barker, C. Fleishman, S. Srivastava

3:45 PM – 5:30 PM

Council on Perioperative Echocardiography Networking Event – Room 611-612

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

Chair-Elect: Sheela Pai Cole, MD, FASE

3:45 PM – 5:30 PM

Council on Circulation and Vascular Networking Event – Room 608-609

Chair: Bryan Wells, MD, FASE

Chair-Elect: Fadi Shamoun, MD, FASE

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SUNDAY, JUNE 12
11:00 AM – 1:00 PM
2:00 – 2:30 PM

MONDAY, JUNE 13
12:30 – 2:00 PM

SCHEDULE AT A GLANCE

SATURDAY, JUNE 11

All times are Pacific time.

REGISTRATION OPEN: 6:00 AM – 6:15 PM / ECHO EXPO OPEN: 3:30 – 6:15 PM						
ROOM	BALLROOM 6E	BALLROOM 6C	BALLROOM 6B	BALLROOM 6A	ROOM 611-612	ROOM 608-609
6:30 – 7:30 AM	BREAKFAST – Lobby on Level 6					
7:00 – 9:30 AM	  STATE OF ASE, 2022 AWARDS PRESENTATION, FASE AND LEADERSHIP ACADEMY RECOGNITION, and 33 RD ANNUAL EDLER LECTURE by Catherine Otto, MD, FASE – Ballroom 6E					
9:30 – 10:00 AM	REFRESHMENT BREAK					
9:30 – 10:00 AM	CHALK TALK: Advanced Hemodynamics in Hypertrophic Cardiomyopathy – Room 204					
9:30 – 11:30 AM	WORKSHOP: Innovations in Perioperative Imaging – Room 2A (Ticketed Event. Additional Fee Required.)					
9:30 – 11:30 AM	LEARNING LAB: 3D Cropping (Valves) – Room 602-604 (Ticketed Event. Additional Fee Required.)					
10:00 – 11:30 AM	   Translating Knowledge Across Generations	  Interventional Echo Basics for Beginners: Tips Today for Use Tomorrow	 POCUS (Part 1) in Acute Vascular Disease and Access Complications: Learn the Basics!	   Top Echo Research of the Year: Innovations Today for Tomorrow's Practice	  New Waves to Assess Ventricles <i>Kalmanson Lecture</i>	
10:00 – 11:30 AM	 DIY ACQUISITION ROOM: 3D Echocardiography – Room 606-607 (Ticketed Event. Additional Fee Required.)					
11:30 AM – 1:00 PM	LUNCH BREAK					
11:30 AM – 1:00 PM	CHALK TALK: E21 Grantees – Room 204 (12:00 – 12:45 PM)					
11:30 AM – 12:00 PM	 Speaker's Corner: Ergonomics – Atrium Lobby					
12:00 – 2:00 PM	LEARNING LAB: Basic Myocardial Strain Imaging (LV, RV, LA) – ROOM 602-604 (Ticketed Event. Additional Fee Required.)					
1:00 – 2:30 PM	   Standards for the Performance of TEE Screening for Structural Heart Intervention	 Echo-OR Correlation	 Looking Good: Practical Tips to Optimize Images and Assure Quality Improvement	 Great Debates: Waves vs. Particles	   Challenges of Adult Congenital Heart Disease	 3D Echo: It's Totally Worth It
1:00 – 2:30 PM	 DIY ACQUISITION ROOM: POCUS (Part 2) in Acute Vascular Disease and Access Complications – Room 606-607 (Ticketed Event. Additional Fee Required.)					
2:30 – 3:00 PM	REFRESHMENT BREAK					
2:30 – 3:00 PM	CHALK TALK Sponsored by Pie Medical Imaging: Strain Imaging and Left Ventricular Mechanics – Room 204					
2:30 – 3:00 PM	 Speaker's Corner: Challenges of Adult Congenital Heart Disease – Atrium Lobby					
2:30 – 4:30 PM	LEARNING LAB: Advanced Myocardial Strain Imaging (LV, RV, LA) – Room 602-604 (Ticketed Event. Additional Fee Required.)					
3:00 – 4:00 PM	  New Approaches to Vascular Imaging: Arteriopathy	 Is My Lab Ready for Contrast Perfusion Stress Echocardiography? Tips and Tricks	   WASE Research in Depth	 Sonographer Career Development Pathways	 Prediction: Can We See the Future?	 Thinking Outside the Box in Adult Congenital Heart Disease
3:00 – 4:30 PM	 DIY ACQUISITION ROOM: 3D Echocardiography – Room 606-607 (Ticketed Event. Additional Fee Required.)					
4:00 – 6:00 PM	PRESIDENT'S RECEPTION  ECHO EXPO					
4:30 – 5:15 PM	SCIENCE AND TECHNOLOGY THEATER 1: BRISTOL MYERS SQUIBB					

SATURDAY

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 PEDIATRIC/CONGENITAL (PC) PERIOPERATIVE (P) POINT OF CARE (POC) RESEARCH (R) SPECIAL SESSIONS (S) VALVES & STRUCTURAL HEART DISEASE (V)

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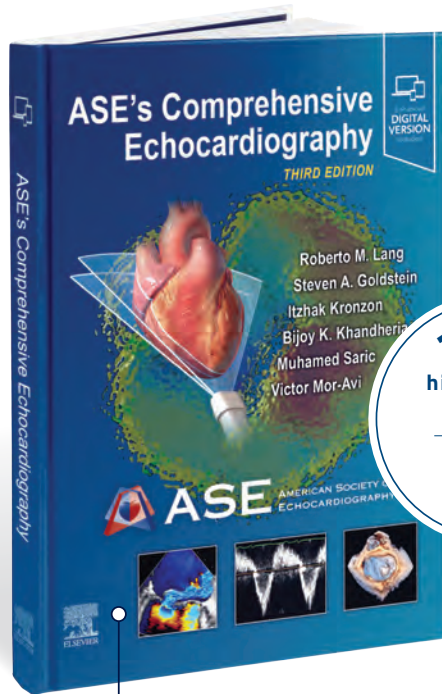
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ASE Headquarters Booth in the Echo Expo

Don't miss meeting the authors Roberto Lang, MD, FASE; Steven Goldstein, MD, FASE; Bijoy Khandheria, MD, FASE; Muhamed Saric, MD, PhD, FASE; Thomas Marwick, MBBS, PhD, MPH, MD; and Theodore Abraham, MD, FASE.

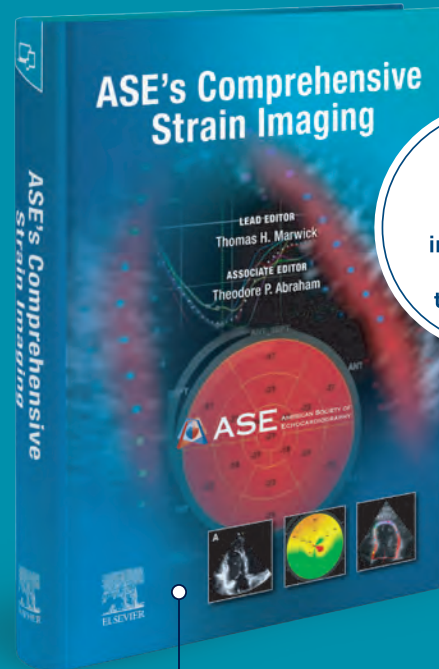


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SATURDAY



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7:00 AM – 9:30 AM

S **State of ASE, 2022 Awards Presentation, FASE and Leadership Academy Recognition, and 33rd Annual Edler Lecture – Ballroom 6E**

Chair: R. Stainback

7:00 AM – 7:10 AM

State of ASE
R. Stainback

7:10 AM – 7:25 AM

Board of Directors Induction and Announcements
R. Stainback

7:25 AM – 7:45 AM

FASE Recognition
R. Stainback, J. Warmsbecker

7:45 AM – 8:00 AM

Leadership Academy Recognition
N. Weissman

8:00 AM – 8:20 AM

Edler Lecture: Aortic Valve Stenosis: Moving from Diagnosis to Patient Outcomes
C. Otto

8:20 AM – 8:55 AM

ASE Award Presentations and Recognitions
R. Stainback

8:55 AM – 9:05 AM

ASE Foundation Award Presentations and Recognitions
V. Rigolin

9:05 AM – 9:15 AM

Incoming President's Address
S. Little

9:15 AM – 9:20 AM

ASE's E21 Research Spotlight: DeepEcho: Echocardiogram Image Normalization Using Deep Learning for Detection and Prognostication of Heart Failure
P. Pellikka

9:20 AM – 9:25 AM

ASE's E21 Research Spotlight: Bedside Cardiovascular Monitoring of Neonates with Patent Ductus Arteriosus
J. Rubin

9:25 AM – 9:30 AM

ASE's E21 Research Spotlight: Echocardiographic Optimization of Ultrasound Septal Reduction for Hypertrophic Cardiomyopathy
D. Giraud

9:30 AM – 11:30 AM

Workshop: Innovations in Perioperative Imaging – Room 2A (*Ticketed Event. Additional Fee Required.*)
Chairs: H. Bhatt, K. Howard-Quijano

Advanced Strain Imaging for TEE: Right Ventricle and Left Ventricle Station
J. Nelson

Perioperative 3D for Quantification: Right Ventricle and Left Ventricle Station
M. Kraushaar

Perioperative 3D Quantification: Mitral Valve Station
A. Faloye

Perioperative 3D Quantification: Aortic Valve Station
S. McCartney

Multiplanar Reformatting for Structural Heart Procedures Station
E. Garcia-Sayan

9:30 AM – 11:30 AM

Learning Lab: 3D Cropping (Valves) – Room 602-604 (*Ticketed Event. Additional Fee Required.*)
Chairs: E. Kruse, R. Lang
Lab Assistants: K. Billick, D. McCullough, M. Yamat, K. Zimmerman

10:00 AM – 11:30 AM

★ EC ❖ Translating Knowledge Across the Generations – Ballroom 6E
Panelists: W. Lai, V. Rigolin, D. Shook, L. Young

10:00 AM – 10:05 AM

Case: Challenging Coronary Artery Anomaly (Sonographer Perspective)
B. Olson

10:05 AM – 10:10 AM

Case: Challenging Coronary Artery Anomaly (Physician Perspective)
B. Soriano

10:10 AM – 10:20 AM

Coronary Artery Anomaly Discussion

10:20 AM – 10:30 AM

Case: Challenging Left Atrial Appendage (Physician Perspective)
L. Safi

10:30 AM – 10:40 AM

Left Atrial Appendage Discussion

SATURDAY, JUNE 11 SCHEDULE

10:40 AM – 10:45 AM

Case: Tricuspid Valve Intervention (Sonographer Perspective)
R. Juras

10:45 AM – 10:50 AM

Case: Tricuspid Valve Intervention (Physician Perspective)
N. Hamid

10:50 AM – 11:00 AM

Tricuspid Valve Intervention Discussion

11:00 AM – 11:10 AM

Case: Challenging Cardio-Obstetric Case (Physician Perspective)
N. Scott

11:10 AM – 11:20 AM

Cardio-Obstetric Discussion

11:20 AM – 11:30 AM

Question & Answer

10:00 AM – 11:30 AM

V R **Interventional Echo Basics for Beginners: Tips Today for Use Tomorrow – Ballroom 6C**

Chairs: S. Little, G. Mackensen

10:00 AM – 10:12 AM

Guiding Mitral Valve Edge-To-Edge Repair: Where to Start;
When to Stop
R. Sheu

10:12 AM – 10:24 AM

Left Atrial Appendage Closure Procedures: A Spectrum
of Challenges
M. Saric

10:24 AM – 10:36 AM

Tricuspid Valve Anatomy: Clarifying Tricuspid Regurgitation
Mechanism, Severity, and Treatability
P. Collier

10:36 AM – 10:41 AM

P3-15: Clinical Outcomes of Urgent Versus Elective Percutaneous
MitraClip Procedures
I. Doshi

10:41 AM – 10:53 AM

Perivalvular Leak Closure: Guiding Catheters and Decisions
J. Thaden

10:53 AM – 11:05 AM

Interventional TEE: Unique Tips and Tricks for Success in the Cath Lab
E. Gill

11:05 AM – 11:17 AM

Structural Heart Disease Lessons Learned from Good, Bad, and
Ugly Cases
R. Attar

11:17 AM – 11:30 AM

Question & Answer

10:00 AM – 11:30 AM

C **POCUS (Part 1) In Acute Vascular Disease and Access Complications: Learn the Basics! – Ballroom 6B**

Chairs: C. Fanola, M. Vorsanger

10:00 AM – 10:15 AM

Rapid Assessment for Deep Vein Thrombosis in High Risk
Pulmonary Embolism Patient
K. Kuester

10:15 AM – 10:30 AM

Assessment of Radial Artery in Coronary Angiogram (including
Allens Test)
M. Cordio

10:30 AM – 10:45 AM

Assessment of Femoral Artery Access Complications After
Coronary Angiogram
C. Busse

10:45 AM – 11:00 AM

Assessment of Lower Extremity Arterial Flow in Mechanical
Support Devices in Advanced Heart Failure
S. De

11:00 AM – 11:15 AM

Rapid Assessment of Abdominal Aortic Aneurysm
C. Mitchell

11:15 AM – 11:30 AM

Question & Answer

10:00 AM – 11:30 AM

S R **Top Echo Research of the Year:
Innovations Today for Tomorrow's Practice
– Ballroom 6A**

Chairs: C. Luoma, S. Siu

10:00 AM – 10:02 AM

Session Introduction
S. Siu

10:02 AM – 10:17 AM

Valvular Heart Disease Research
K. Addetia

10:17 AM – 10:32 AM

Heart Failure, Hemodynamics, and Ischemic Disease Research
A. Shah

10:32 AM – 10:47 AM

Pediatric Imaging Research
D. Forsha

10:47 AM – 11:02 AM

Multimodality Imaging Research/Miscellaneous
S. Graham-Hill

11:02 AM – 11:30 AM

Question & Answer

10:00 AM – 11:30 AM

PC **❖ New Waves to Assess Ventricles –
Room 611-612**

Chairs: M. Dimaria, M. Lewin, S. Srivastava

10:00 AM – 10:20 AM

Kalmanson Lecture: Ultrafast Ultrasound - Insight into Left Ventricular Mechanics
O. Villemain

10:20 AM – 10:30 AM

Novel Left Ventricular Function Parameters: Impact in Patient Outcomes
S. Srivastava

10:30 AM – 10:40 AM

Function, Mass, and Volume: Which One Really Matters?
D. Harrild

10:40 AM – 10:50 AM

Blood Speckle Tracking vs. Vector Flow Mapping
M. Friedberg

10:50 AM – 11:00 AM

Single Right Ventricle: Which Is the Most Repeatable or Reproducible Measure? How Do I Follow My Patient?
E. Selamet Tierney

11:00 AM – 11:10 AM

Imaging the Transplanted Heart
J. Soslow

11:10 AM – 11:20 AM

3D Predictor of Better Outcome of Valves
A. Parthiban

11:20 AM – 11:30 AM

Question & Answer

10:00 AM – 11:30 AM

F **DIY Acquisition Room: 3D Echocardiography
– Room 606-607**

(Ticketed Event. Additional Fee Required.)

DIY Instructors: J. Brabender, E. McIlwain, B. Roberts, J. Schaaf

11:30 AM – 11:45 AM

PC **Speaker's Corner: Ergonomics – Atrium Lobby**

Identifying Risk Factors for Work-Related Musculoskeletal Disorders
B. Richards

Developing A Strategy for Education and Prevention
J. Goulding

11:45 AM – 12:45 PM

PC **❖ Equitable Echocardiography and Echo in
the Americas – Pre-Recorded Viewing
Room 208**

Chairs: L. Mercer-Rosa, D. Parra, R. Pignatelli

Equity: Care of Congenital Heart Disease: Who Are Our Patients and Why We Need to Know
K. Lopez

Increasing Diversity in The Imaging Workforce
A. Patel

Training Program for Non-Cardiologist: Early Detection of Fetal Heart Disease (Argentina Experience)
M. Fernanda Biancolini

Early Cardiac Manifestations of Overweight and Obesity in A Pediatric Population in Mexico
C. Vazquez Antona

Errors in Pediatric and Congenital Echocardiography: How are We Dealing with Them?
J. Afiune

Panel Discussion

SATURDAY, JUNE 11 SCHEDULE

12:00 PM – 2:00 PM

Learning Lab: Basic Myocardial Strain Imaging (LV, RV, LA) – Room 602-604

(Ticketed Event. Additional Fee Required.)

Chairs: J. Hill, J. Strom

Lab Assistants: T. Green, J. Hodovan, M. Jankowski, R. Palma, G. Strachan

1:00 PM – 2:30 PM

Standards for the Performance of TEE Screening for Structural Heart Intervention – Ballroom 6E

Chairs: E. Garcia-Sayan, R. Hahn

Panelists: S. Goldstein, K. Horton, S. Little, M. Saric

1:00 PM – 1:12 PM

The Essentials of Pre-Procedural TEE for TAVI

O. Khalique

1:12 PM – 1:24 PM

The Essentials of Pre-Procedural TEE for Transcatheter Edge-To-Edge Mitral Repair

G. Mackensen

1:24 PM – 1:36 PM

The Essentials of Pre-Procedural TEE for Tricuspid Valve Interventions

R. Hahn

1:36 PM – 1:48 PM

The Essentials of Pre-Procedural TEE for Left Atrial Appendage Closure

N. Quader

1:48 PM – 2:00 PM

The Essentials of Pre-Procedural TEE for Interatrial Septal Devices

R. Garg

2:00 PM – 2:12 PM

Advanced 3D Imaging for Structural Heart Disease Interventions

A. Bhatt

2:12 PM – 2:30 PM

Question & Answer

1:00 PM – 2:30 PM

Echo-OR Correlation – Ballroom 6C

Chairs: K. Addetia, R. Lang

Discussants: V. Jeevanandam, B. Khandheria, S. Lester, V. Rigolin, C. Taub

1:00 PM – 1:18 PM

A Case of Prosthetic Valve Dysfunction

J. Cotella

1:18 PM – 1:36 PM

A Case of Paravalvular Leak

M. Henry

1:36 PM – 1:54 PM

A Foreign Object in the Left Ventricle

E. Wali

1:54 PM – 2:12 PM

Degenerative Mitral Valve Disease

M. Henry

2:12 PM – 2:30 PM

Implantable Cardioverter Defibrillator Side Effects

K. Addetia

1:00 PM – 2:30 PM

Looking Good: Practical Tips to Optimize Images and Assure Quality Improvement – Ballroom 6B

Chairs: S. Ahmed, A. Johri

1:00 PM – 1:12 PM

Session Introduction

A. Johri

1:12 PM – 1:24 PM

Speckle Tracking: Accept Or Reject?

K. Yared

1:24 PM – 1:36 PM

Contrast Imaging: When and How to Make It Best

H. Becher

1:36 PM – 1:48 PM

3D Imaging: Pearls and Pitfalls

S. Blissett

1:48 PM – 2:00 PM

The View from Here: Finding Challenging Windows

K. Szeto

2:00 PM – 2:12 PM

Wrapping It Up: Quality Improvement Strategies

S. Ahmed

2:12 PM – 2:30 PM

Question & Answer

1:00 PM – 2:30 PM

The Great Debate: Waves vs. Particles – Ballroom 6A

Chairs: A. Kelsey

1:00 PM – 1:10 PM

Round 1: “Enhancing” the Diagnosis of Cardiac Amyloidosis

M. Chetrit

1:10 PM – 1:20 PM

Round 1: Does Strain Solve Under Recognition?

A. Sadeghpour

1:20 PM – 1:25 PM

Debrief

J. Marshall

1:25 PM – 1:35 PM

Round 2: Perfusion Plus Enhancement is the Non-Invasive Gold Standard

M. Salerno

1:35 PM – 1:45 PM

Round 2: Perfusion to Eliminate Confusion in Ischemia Assessment

T. Porter

1:45 PM – 1:50 PM

Debrief

B. Davidson

1:50 PM – 2:00 PM

Round 3: Cardiac MRI: The Forgotten Modality for the Forgotten Valve

A. Albulushi

2:00 PM – 2:10 PM

Round 3: For Tricuspid Regurgitation: Echo is the Best and CMRI is Just One of the Rest

N. Hamid

2:10 PM – 2:15 PM

Debrief

D. Sanborn

2:15 PM – 2:30 PM

Conclusion and Question & Answer

1:00 PM – 2:30 PM** Challenges of Adult Congenital Heart Disease – Room 611-612**

Chair: K. Stout

1:00 PM – 1:02 PM

Session Introduction

K. Stout

1:02 PM – 1:19 PM

When Adult Echo Guidelines Don't Fit Adult Congenital Heart Disease Patients

M. Earing

1:19 PM – 1:36 PM

Ebstein's Anomaly: More Than the Tricuspid Valve

K. Thorson

1:36 PM – 1:53 PM

Abnormal Findings: What Does and Doesn't Go Together?

J. Deen

1:53 PM – 2:10 PM

P2-07: Echocardiographic Predictors of Medium-Term Left Ventricular Remodeling After Ross Aortic Valve Replacement in Children and Young Adults

S. Duong

2:10 PM – 2:30 PM

Question & Answer

1:00 PM – 2:30 PM** 3D Echo: It's Totally Worth It – Room 608-609**

Chairs: K. Collins, J. Kisslo

1:00 PM – 1:02 PM

Session Introduction

K. Collins

1:02 PM – 1:10 PM

Case Introduction

E. Kruse

1:10 PM – 1:22 PM

Current Techniques of 3D Echocardiography

J. Pereira

1:22 PM – 1:34 PM

Clinical Benefits of 3D Echocardiography in Assessing the Left Ventricle

J. Kisslo

1:34 PM – 1:46 PM

Essential Role of 3D Echocardiography for Mitral Valve Interventions

L. Safi

1:46 PM – 1:58 PM

Added Value of 3D Echocardiography in Assessing the Tricuspid Valve

M. Yamat

1:58 PM – 2:10 PM

Where To Next? Future Directions of 3D Echocardiography

W. Tsang

2:10 PM – 2:20 PM

Case Conclusion

E. Kruse

2:20 PM – 2:30 PM

Question & Answer

SATURDAY, JUNE 11 SCHEDULE

1:00 PM – 2:30 PM

C **DIY Acquisition Room: POCUS (Part 2)
In Acute Vascular Disease and Access
Complications – Room 606-607**

(Ticketed Event. Additional Fee Required.)

Rapid Assessment for Deep Vein Thrombosis in High Risk
PE Patient
K. Kuester

Assessment of Radial Artery in Coronary Angiogram (Including
Allens Test)
M. Cordio

Assessment of Lower Extremity Arterial Flow in Mechanical
Support Devices in Advanced Heart Failure
S. De

Rapid Assessment of Abdominal Aortic Aneurysm
C. Busse, C. Mitchell

2:30 PM – 3:00 PM

A R **Speaker's Corner: Challenges of Adult
Congenital Heart Disease – Atrium Lobby**

Adult Congenital Heart Disease Patients: Who Is at Risk of Aortic
Dilatation and Rupture?
H. Connolly

The Cardiology Supernova: Training in ACHD: Medical Viewpoint
K. Stout

The Cardiology Supernova: Training in ACHD: Sonographer Viewpoint
N. Soni-Patel

2:30 PM – 4:30 PM

**Learning Lab: Advanced Myocardial Strain
Imaging (LV, RV, LA) – Room 602-604**

(Ticketed Event. Additional Fee Required.)

Chairs: D. Ignatowski, B. Khandheria

*Lab Assistants: N. Enger, H. Hayes, J. Hill, A. Kaminski,
T. Van Houten*

3:00 PM – 4:00 PM

C **New Approaches to Vascular Imaging:
Arteriopathy – Ballroom 6E**

Chairs: A. Klein, G. Nesbitt

3:00 PM – 3:12 PM

Get With the Guidelines: How to Assess Carotid Plaque
A. Johri

3:12 PM – 3:24 PM

Non-Atherosclerotic Carotid Disease: Fibromuscular Dysplasia
and Dissection
R. Benenstein

3:24 PM – 3:36 PM

Acute Management and Multimodality Imaging Techniques in
Spontaneous Coronary Artery Dissection
E. Kim

3:36 PM – 3:48 PM

Diagnosis and Intervention in Renovascular Hypertension Related
to Fibromuscular Dysplasia
B. Wells

3:48 PM – 4:00 PM

Question & Answer

3:00 PM – 4:00 PM

I **Is My Lab Ready for Contrast Perfusion
Stress Echocardiography? Tip and Tricks –
Ballroom 6C**

Chairs: J. Lindner, J. Olsen

3:00 PM – 3:15 PM

Why We Decided to Start: Benefits and Challenges to Using
Contrast Perfusion in Stress Echocardiography
M. Bremer

3:15 PM – 3:30 PM

Nuts and Bolts: Techniques That Need to Be Mastered, and Where
to Learn Them
B. Davidson

3:30 PM – 3:45 PM

Contrast for Microvascular Disease: The Next Horizon
T. Porter

3:45 PM – 4:00 PM

Question & Answer

3:00 PM – 4:00 PM

S R **WASE Research In-Depth – Ballroom 6B**

Chairs: F. Asch, R. Lang

3:00 PM – 3:15 PM

COVID Through the Eyes of WASE: Value of Automated Intelligence
I. Karagodin

3:15 PM – 3:30 PM

Left and Right Atrium: How Will Lessons Learned Impact
Future Studies
J. Banchs

3:30 PM – 3:45 PM

Appropriate Use of Statistics in WASE: Pros and Cons
W. Tsang

3:45 PM – 4:00 PM

WASE in Depth: Diastolic Right Ventricular and Left Ventricular Function
T. Miyoshi

3:00 PM – 4:30 PM

EC Sonographer Career Development Pathways – Ballroom 6A

Chairs: D. Bourque, M. Wasserman

3:00 PM – 3:05 PM

Session Introduction
M. Wasserman

3:05 PM – 3:18 PM

Transitioning to Administration
K. Billick

3:18 PM – 3:31 PM

Echo Research
C. Cassidy

3:31 PM – 3:44 PM

Education Dedication
E. Kruse

3:44 PM – 3:57 PM

Promoting Yourself Within Your Institution
I. Crandall

3:57 PM – 4:10 PM

Volunteering and Networking
N. Soni-Patel

4:10 PM – 4:30 PM

Question & Answer

3:00 PM – 4:00 PM

P Prediction: Can We See the Future? – Room 611-612

Chairs: S. Pislaru, K. Zimmerman

3:00 PM – 3:02 PM

Session introduction
S. Pislaru

3:02 PM – 3:14 PM

Systolic Anterior Motion Risks: Patient vs. Procedure
H. Bhatt

3:14 PM – 3:26 PM

Will the Right Ventricle Fail When the Left Side is the Problem?
A. Faloye

3:26 PM – 3:38 PM

Will the Left Ventricle Fail with A Bad Valve
M. Sarano

3:38 PM – 3:50 PM

Man vs. Machine: Artificial Intelligence vs. Augmented Intelligence in the Operating Room
S. Pislaru

3:50 PM – 4:00 PM

Question & Answer

3:00 PM – 4:00 PM

A ❖ Thinking Outside the Box in Adult Congenital Heart Disease – Room 608-609

Chairs: H. Connolly, L. Hua

3:00 PM – 3:04 PM

Session Introduction
H. Connolly

3:04 PM – 3:16 PM

Pregnancy in Transposition of the Great Arteries Repaired Patients: What to Look for with Echo
D. DeFaria Yeh

3:16 PM – 3:28 PM

The Left Ventricle in Tetralogy of Fallot
N. Soni-Patel

3:28 PM – 3:40 PM

Anomalous Coronary Arteries in Adult Congenital Heart Disease: A Curiosity or A Game Changer?
Z. Steinberg

3:40 PM – 4:00 PM

Question & Answer

3:00 PM – 4:30 PM

F DIY Image Acquisition Room: 3D Echocardiography – Room 606-607

(Ticketed Event. Additional Fee Required.)

DIY Instructors: J. Betz, J. Brabender, K. Collins, E. McIlwain, K. Szeto

CONGRATULATIONS TO DR. PATRICIA A. PELLIKKA

The American Society of Echocardiography is pleased to announce that Patricia A. Pellikka, MD, FASE, of the Mayo Clinic, has been selected to become the Editor-in-Chief of the *Journal of the American Society of Echocardiography* (JASE) on January 1, 2023. A leading figure in the cardiovascular community, Dr. Pellikka is well positioned to continue the legacy of former JASE Editors Drs. Michael H. Picard, Alan S. Pearlman, and Harvey Feigenbaum. Her stellar contributions to the field of cardiovascular ultrasound, including patient care, lab management, teaching, research, and publishing, as well as serving as ASE's President (2012–2013), means the future of JASE is in great hands.



SCHEDULE AT A GLANCE

SUNDAY, JUNE 12

All times are Pacific time.

REGISTRATION OPEN: 6:30 AM – 5:00 PM / ECHO EXPO OPEN: 9:00 AM – 2:45 PM						
ROOM	BALLROOM 6E	BALLROOM 6C	BALLROOM 6B	BALLROOM 6A	ROOM 611-612	ROOM 608-609
6:30 – 7:30 AM	BREAKFAST – Lobby on Level 6					
7:00 – 8:30 AM	 Hot Topics in Structural Heart Disease	 Fetal Symposium: Improving Outcomes (7:30-9:00 AM)				
7:30 – 9:00 AM	DIY ACQUISITION ROOM: Left Ventricular, Right Ventricular, and Left Atrial Strain – Room 606-607 (Ticketed Event. Additional Fee Required.)					
7:30 – 9:30 AM	LEARNING LAB: 3D Cropping (Valves) – Room 602-604 (Ticketed Event. Additional Fee Required.)					
8:30 – 9:00 AM	GARDIN LECTURE by Suzanne Simard, PhD – Ballroom 6E					
9:00 – 9:30 AM	REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: Novel Uses of Agitated Saline and Contrast in Ultrasound – Chalk Talk Theater Echo Expo					
9:00 – 9:45 AM	SCIENCE AND TECHNOLOGY THEATER 1: ABBOTT / SCIENCE AND TECHNOLOGY THEATER 2: PFIZER					
9:30 – 11:00 AM	 Women in Echo (Joint ASE/EACVI Session)	 Innovation Through Collaboration: Tackling POCUS Training and Education from a Multi-Specialty Perspective	 Advances in Echo for the Assessment of Congenital Heart Disease (Joint ASE/JSE Session)	 Intracardiac Imaging: Preparing for the ICE Storm	 Stress Echo in Special Populations	 Educator Summit: Contrast and Competency (Limited Attendance)
9:30 – 11:00 AM	DIY ACQUISITION ROOM: Pediatric & Fetal Imaging – Room 606-607 (Ticketed Event. Additional Fee Required.)					
11:00 – 1:00 PM	LUNCH BREAK: VISIT ECHO EXPO / MODERATED POSTERS: ECHO EXPO CHALK TALK THEATER CHALK TALK (11:30 AM – 12:15 PM): The Future of QI in Pediatric Cardiology: The QI Consortium – Room 204					
11:15 AM – 12:15 PM	SCIENCE AND TECHNOLOGY THEATER 1: GE HEALTHCARE / SCIENCE AND TECHNOLOGY THEATER 2: PHILIPS					
11:30 AM – 1:30 PM	LEARNING LAB: 3D Volume Function – Room 602-604 (Ticketed Event. Additional Fee Required.)					
1:00 – 2:00 PM	 Multispecialty POCUS in a Continuum of Care for the Critically Ill	 Brian Haluska Sonographer Research Award Competition		 Perioperative Case Dilemmas: Role of Imaging to Optimize Patient Care	 Advancing Your Academic Career for Physicians Pursuing Research Careers	 Diagnosis and Novel Intervention for the High-Risk Pulmonary Embolism
2:00 – 2:30 PM	REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: Aortic Stenosis: Clarifying the Concepts of Severity – Chalk Talk Theater Echo Expo					
2:00 – 2:45 PM	SCIENCE AND TECHNOLOGY THEATER 1: ULTROMICS					
2:30 – 3:00 PM	KERBER LECTURE by Linda K. Kerber, PhD – Ballroom 6A					
2:30 – 3:30 PM	 CROP OFF!		 Pediatric Echo Jeopardy	 Women in Echo Networking Session (3:00 – 3:30 PM)		
3:45 – 5:15 PM	 Multimodality Imaging in Cardiomyopathy	 ShowCASE Competition				
7:00 – 11:00 PM	ASE FOUNDATION RESEARCH AWARDS GALA (Ticketed Event. Additional Fee Required.)					

ACHD (A) CIRCULATION (C) EARLY CAREER (EC) IMAGING FUNDAMENTALS (F) INNOVATION/TECHNOLOGY (IT) ISCHEMIA (I) MYOCARDIUM/FUNCTION (M)
PEDIATRIC/CONGENITAL (PC) PERIOPERATIVE (P) POINT OF CARE (POC) RESEARCH (R) SPECIAL SESSIONS (S) VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC ■ BASIC/INTERMEDIATE ▲ INTERMEDIATE ◆ INTERMEDIATE/ADVANCED ◆ ADVANCED ★ BASIC/INTERMEDIATE/ADVANCED

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

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QUALITY IMPROVEMENT

- Compare quality of care against national benchmarks
- Submit data to IAC for ease of accreditation
- Address quality gaps identified with ASE guideline-based feedback
- Examine all echo report information for all studies performed at your institution
- Leverage automatic data submission for participation



DISEASE-FOCUSED RESEARCH

- Include report and images focused on a specific pathology
- Enable site enrollment, researcher investigation, and stakeholder access to research data
- Utilize interface for expert interpretation of findings
- Generate insights with an analytics-driven interface
- House report and imaging data for your project in one repository



DIGITAL DISEASE REPOSITORY

- Upload your de-identified images to the image portal
- Search specific cases and pathologies to find images for education and training tools
- Download images and use them for your presentations
- Assist fellows and early career sonographers in identifying unique pathologies



AI ALGORITHM VERIFICATION

- Leverage multi-institutional database of “real world” images and reports
- Serve as engine for AI development and testing to ensure algorithm integrity and transparency
- Utilize ASE’s DICOM anonymization tool provided by ARMUS to allow for ease of case submission
- Create a rich database of rare disease cases for improved patient care
- Participate in expert review and annotation for comparison against industry tools

STOP BY BOOTH #1729 OR LEARN MORE HERE.



7:00 AM – 8:30 AM

**★ R 🏠 Hot Topics in Structural Heart Disease –
Ballroom 6E**

Chairs: M. Cantu, G. Pressman

7:00 AM – 7:05 AM

Introduction
M. Cantu

7:05 AM – 7:15 AM

P5-32: Leveraging Automated Neural Network Segmentation of 3D-Transesophageal Echocardiography (3D-TEE) to Assess Mitral Valve Geometry with MitraClip Transcatheter Edge-to-Edge Repair (TEER)
K. Lee

7:15 AM – 7:30 AM

Ultrasound Guided Vascular Access: Getting in Is Half the Battle
J. Astbury

7:30 AM – 7:45 AM

What's New in Left Atrial Appendage Occlusion Devices
R. Vadlamudi

7:45 AM – 8:00 AM

Updates in Imaging for Percutaneous Tricuspid Valve Procedures
R. Hahn

8:00 AM – 8:15 AM

Imaging for Percutaneous Mitral Procedures: Pearls to Take Your Results to the Next Level
G. Mackensen

8:15 AM – 8:30 AM

Question & Answer

7:30 AM – 9:00 AM

**◆ PC ❖ Fetal Symposium: Improving Outcomes –
Ballroom 6C**

Chairs: B. Cuneo, M. Puchalski, K. Thorson

7:30 AM – 7:40 AM

Ultrasound Safety in Prenatal Imaging
A. Moon-Grady

7:40 AM – 7:50 AM

Artificial Intelligence in Fetal Screening: Are We There Yet?
S. Morris

7:50 AM – 8:00 AM

MRI in Fetal Congenital Heart Disease
M. Seed

8:00 AM – 8:10 AM

Predicting Coarctation: An Ongoing Conundrum
S. Maskatia

8:10 AM – 8:13 AM

Dextro-Transposition of the Great Arteries: Clues to Urgent Intervention
D. McVadon

8:13 AM – 8:20 AM

Dextro-Transposition of the Great Arteries: Clues to Urgent Intervention
Discussant: C. Taylor

8:20 AM – 8:23 AM

Ebstein Anomaly
S. Sunthakar

8:23 AM – 8:30 AM

Ebstein Anomaly
Discussant: A. Kavanaugh-McHugh

8:30 AM – 8:33 AM

Hypoplastic Left Heart Syndrome and the Atrial Septum: When is Restrictive, Too Restrictive?
D. Sganga

8:33 AM – 8:40 AM

Hypoplastic Left Heart Syndrome and the Atrial Septum: When is Restrictive, Too Restrictive?
Discussant: T. Tacy

8:40 AM – 8:43 AM

Ventricular Outpouchings: Aneurysms/Diverticula: Are They as Scary as They Sound?
S. Doucet

8:43 AM – 8:50 AM

Ventricular Outpouchings: Aneurysms/Diverticula: Are They as Scary as They Sound?
Discussant: S. Morris

8:50 AM – 9:00 AM

Question & Answer

7:30 AM – 9:30 AM

**Learning Lab: 3D Cropping (Valves) – Room
602-604**

(Ticketed Event. Additional Fee Required.)

Chairs: K. Addetia, R. Lang, M. Yamat

Lab Assistants: J. Betz, N. Enger, A. Kaminski, C. Kramer, E. Kruse

SUNDAY, JUNE 12 SCHEDULE

7:30 AM – 9:00 AM

F **DIY Acquisition Room: Left Ventricular, Right Ventricular, and Left Atrial Strain – Room 606-607**

(Ticketed Event. Additional Fee Required.)

DIY Instructors: M. Kraushaar, M. Park, B. Roberts, K. Szeto

8:30 AM – 9:00 AM

S **Gardin Lecturer – Ballroom 6E**

Chair: S. Mulvagh

8:30 AM – 8:32 AM

Introduction

S. Mulvagh

8:32 AM – 8:58 AM

Gardin Lecture: Finding the Mother Tree

S. Simard

8:58 AM – 9:00 AM

Conclusion

S. Mulvagh

9:30 AM – 11:00 AM

★ **Women in Echocardiography – Ballroom 6E**

(ASE/EACVI Joint Session)

Chairs: S. Mulvagh, R. Thamman



EACVI
European Association of
Cardiovascular Imaging

9:30 AM – 9:45 AM

Is Meritocracy Still Relevant?

D. Sanborn

9:45 AM – 10:00 AM

Peculiarity of Heart Disease in Women: What Does It Mean for the Echocardiographic Assessment?

R. Thamman

10:00 AM – 10:15 AM

Imaging Ischemic Heart Disease in Women

L. Sade

10:15 AM – 10:30 AM

Assessment of Coronary Artery Disease in Women

N. Scott

10:30 AM – 10:45 AM

Assessment of Valvular Heart Disease in Women

V. Delgado

10:45 AM – 11:00 AM

Question & Answer

9:30 AM – 11:00 AM

POC **Innovation Through Collaboration: Tackling POCUS Training and Education from a Multi-Specialty Perspective – Ballroom 6C**

Chairs: J. Diaz-Gomez, N. Panebianco

9:30 AM – 9:32 AM

Session Introduction

N. Panebianco

9:32 AM – 9:39 AM

POCUS Training, Credentialing, Documentation: International Perspective on Internal Medicine

I. Ma

9:39 AM – 9:46 AM

POCUS Training, Credentialing, Documentation: Emergency Medicine Perspective

R. Liu

9:46 AM – 10:00 AM

POCUS Training, Credentialing, Documentation: Critical Care Perspective

P. Mayo, S. Nikravan

10:00 AM – 10:14 AM

POCUS Training, Credentialing, Documentation: Internal Medicine Perspective

R. Dversdal, M. Lanspa

10:14 AM – 10:35 AM

POCUS Training, Credentialing, Documentation: Cardiology Perspective

A. Labovitz, J. Kirkpatrick, V. Sorrell

10:35 AM – 11:00 AM

Question & Answer

9:30 AM – 11:00 AM

◆ **Advances in Echocardiography for the Assessment of Congenital Heart Disease – Ballroom 6B**

(ASE/JSE Joint Session)

Chairs: G. Ensing, S. Iwanaga



9:30 AM – 9:32 AM

Session Introduction

G. Ensing

9:32 AM – 9:47 AM

4D Imaging for the Management of Congenital Heart Disease

K. Takigiku

9:47 AM – 10:02 AM

Right-Sided Complications in Adult Congenital Heart Disease

T. Ishizu

10:02 AM – 10:17 AM

The Eisenmenger Patient: Which Echo Parameters Really Matter?
M. Fuchs

10:17 AM – 10:32 AM

Mechanical Circulatory Support in Adult Congenital Heart Disease
TBD

10:32 AM – 10:47 AM

Long Term Outcomes in Shone's Complex - What I Need from Echo
TBD

10:47 AM – 11:00 AM

Question & Answer

9:30 AM – 10:30 AM** R Intracardiac Imaging: Preparing for the ICE Storm – Ballroom 6A**

Chairs: D. Fan, S. Romero

9:30 AM – 9:42 AM

2D and 3D ICE: Basic Concepts and Views
T. Chen

9:42 AM – 9:54 AM

Can 3D ICE Replace TEE for LAAO Guidance?
M. Saric

9:54 AM – 9:59 AM

PC-02: Three-Dimensional Intracardiac Echocardiography in Transcatheter Pulmonary Valve Replacement
C. Gonzalez de Alba

9:59 AM – 10:11 AM

3D ICE for Mitraclip: Is It Possible?
C. Sanchez

10:11 AM – 10:23 AM

ICE for Tricuspid Procedures: Adding Views and Value?
M. Vannan

10:23 AM – 10:30 AM

Question & Answer

9:30 AM – 11:00 AM** R Stress Echo in Special Populations – Room 611-612**

Chairs: J. Marshall, P. Pellikka

9:30 AM – 9:34 AM

Session Introduction
J. Marshall

9:34 AM – 9:48 AM

Performing Stress Echo for Liver and Renal Transplant Evaluation
A. Albulushi

9:48 AM – 10:02 AM

Performing Stress Echo for Post-Cardiac Transplant Surveillance
P. Rahko

10:02 AM – 10:16 AM

Using Stress Echo in Pre-Operative Evaluation of Vascular Surgery Patients
B. Wells

10:16 AM – 10:30 AM

Update: 2021 ACC AUC for Multimodality Pre-Operative Imaging
A. Hays

10:30 AM – 10:40 AM

PC-07: Myocardial Scar Detection and Quantification Using Phase Change Ultrasound Contrast Agents
C. Chen

10:40 AM – 11:00 AM

Question & Answer

9:30 AM – 11:00 AM** Educator Summit: Contrast and Competency – Room 608-609**

Chairs: M. Bremer, R. Palma
Lab Assistants: J. Betz, M. Hepinstall

Why Do We Need Contrast?
R. Palma

Content for Teaching Contrast
G. Strachan

Methods of Testing Competency
M. Bremer

Practical Competency for Educators
Panelists: T. Gallagher, C. Mitchell, R. Palma

Question & Answer

9:30 AM – 11:00 AM** ❖ DIY Acquisition Room: Fetal and Pediatric Imaging – Room 606-607**

(Ticketed Event. Additional Fee Required.)

Normal Arch Imaging, Optimization of Coronaries, Subcostal Sweeps
K. Nichols

Normal Fetus Situs Determination, Three-Vessel View, Arch Assessment
M. Clouse

Congenitally Corrected Transposition of the Great Arteries
H. Cuffee

Ebstein Anomaly
B. Olson

SUNDAY, JUNE 12 SCHEDULE

11:15 AM – 12:15 PM

▲ A New Vision for Tricuspid Valve Therapies – Pre-Recorded Viewing Room 208

Tricuspid Valve insufficiency: Defining Pathology and Severity With TTE
B. Schwaegler

TEE for Tricuspid Valve Interventions: Pain Points and Pearls
T. Smith

CMR for Right Ventricular Function and Tricuspid Regurgitation Quantification: When and Why?
D. Shah

What's New in Transcatheter Tricuspid Valve Therapies?
J. McCabe

Post-Intervention Assessment of The Tricuspid Valve with TTE: What's Essential?
A. Rangosch

3 Tricuspid Regurgitation Cases: Diagnostic Data, Intervention, Outcome, Lessons Learned
O. Khalique

11:30 AM – 1:30 PM

Learning Lab: 3D Volume/Function Chamber Quantification Learning Lab – Room 602-604

(Ticketed Event. Additional Fee Required.)

Chairs: K. Collins, L. Sugeng

Lab Assistants: A. Dewar, T. Green, M. Jankowski, J. Pereira, Z. Robinson

◆ ❖ Let's Assess That Single Ventricle – Pre-Recorded Viewing Room 208

Chairs: J. Dwyer, J. Lu, J. Robinson

Can Imaging Predict Outcomes of Single Ventricle
R. Rathod

Repair the AVV, Why and How?
G. Hill

Intervening On the Aortic Arch
N. Soni-Patel

How and When Do We Need to Image the Lymphatic System in Fontan
D. Biko

The Burden of Collaterals in Fontan
L. Olivieri

Panel Discussion

1:00 PM – 2:00 PM

★ POC Multispecialty POCUS In A Continuum of Care For the Critically Ill – Ballroom 6E

Chairs: A. Labovitz, C. Troianos

1:00 PM – 1:10 PM
Introduction to CCE SIG
A. Labovitz

1:10 PM – 1:20 PM
CASE 1: The Shocky Patient
N. Panebianco

1:20 PM – 1:30 PM
CASE 2: The Dyspneic Patient
P. Mayo

1:30 PM – 1:40 PM
CASE 3: The Cardiac Arrest Patient
N. Kumar

1:40 PM – 1:50 PM
Moving Forward: Cardiologist's Perspective
V. Sorrell

1:50 PM – 2:00 PM
Moving Forward: Intensivist's Perspective
S. Nikravan

1:00 PM – 2:00 PM

◆ F R 🏆 The Brian Haluska Sonographer Research Award Competition – Ballroom 6C

Chairs: J. Kirkpatrick
Judges: F. Asch, C. Mitchell, G. Strachan

1:00 PM – 1:03 PM
Welcome and Introduction of Judges
J. Kirkpatrick

1:03 PM – 1:13 PM
SIA-01: Right Heart Function and Recovery in Multisystem Inflammatory Syndrome in Children
C. Polsen

1:13 PM – 1:23 PM
SIA-02: Incorporating Ergonomic Scanning Practices in Echocardiography Lab Using Quality Improvement Methodology
J. Goulding

1:23 PM – 1:33 PM
SIA-03: Use of Layer Specific Strain Imaging and Shear Wave Elastography to Evaluate Subclinical Cardiovascular Dysfunction in Patients with Turner's Syndrome
M. Craft

1:33 PM – 1:43 PM

SIA-04: Reproducibility of Pediatric Echocardiographic Strain Data Comparing Two Commonly Used Analysis Methods
G. Coburn

1:43 PM – 1:45 PM

Introduction of Guest Speaker
J. Kirkpatrick

1:45 PM – 1:55 PM

Sonographer-Led Research: How You Can Make a Difference
J. Hodovan

1:55 PM – 2:00 PM

Recognition of Competition Finalists, Announcement of Winner
J. Kirkpatrick

1:00 PM – 2:00 PM

P Perioperative Case Dilemmas: Role of Imaging to Optimize Patient Care – Ballroom 6A

Chairs: J. Thaden, R. Vadlamudi

1:00 PM – 1:02 PM

Session Introduction
R. Vadlamudi

1:02 PM – 1:14 PM

Failed Structural Heart Procedures: What's Next for My Symptomatic Patient?
G. Mackensen

1:14 PM – 1:26 PM

Imaging for Hybrid Interventional and Surgical Procedures
J. Thaden

1:26 PM – 1:38 PM

Mechanical Circulatory Support Decision Making: ECMO vs. Impella vs. BiVAD
S. Pai Cole

1:38 PM – 1:50 PM

Perioperative Incidentalomas: Management of Unanticipated Findings on the Intraoperative TEE
S. McCartney

1:50 PM – 2:00 PM

Question & Answer

1:00 PM – 2:00 PM

EC Advancing Your Academic Career for Physicians Pursuing Research Careers In Adult and Pediatric Cardiology – Room 611-612

Chairs: P. Douglas, S. Kuttly

1:00 PM – 1:06 PM

Session Introduction
P. Douglas

1:06 PM – 1:12 PM

Brief Topics: Funding Options
D. Forsha

1:12 PM – 1:18 PM

Brief Topics: Finding Mentors and Collaborators
P. Jone

1:18 PM – 1:24 PM

Making Your Job Work for Your Career
J. Strom

1:24 PM – 1:30 PM

Quality Improvement Leadership in the Echo Lab
J. Kim

1:30 PM – 2:00 PM

Question & Answer

1:00 PM – 2:00 PM

C Diagnosis and Novel Intervention for the High Risk Pulmonary Embolism – Room 608-609

Chairs: G. Kane, M. Park

1:00 PM – 1:10 PM

Rapid Risk Assessment in Pulmonary Embolism
J. Horowitz

1:10 PM – 1:20 PM

A Sonographer's Guide to Accurate Assessment of Right Ventricular Dysfunction and Clot-in-Transit in Pulmonary Embolism
M. Bremer

1:20 PM – 1:30 PM

Transesophageal Guidance in Placement and Surveillance of ECMO in PE
D. Dudzinski

1:30 PM – 1:40 PM

Catheter-Based Therapies for High-Risk Pulmonary Embolism and Clot-in-Transit
G. Piazza

SUNDAY, JUNE 12 SCHEDULE

1:40 PM – 1:50 PM

Imaging Diagnosis and Advanced Treatment Options for Chronic Thromboembolic Pulmonary Hypertension
G. Kane

1:50 PM – 2:00 PM

Question & Answer

2:30 PM – 3:30 PM

IT CROP OFF! – Ballroom 6E

Chairs: M. Kraushaar, A. Narang

2:30 PM – 2:35 PM

Mitral Valve Case Presentation
S. Walling

2:35 PM – 2:45 PM

Live Cropping the Mitral Valve
V. Rigolin

2:45 PM – 2:50 PM

Question & Answer
V. Rigolin, S. Walling

2:50 PM – 2:55 PM

Tricuspid Valve Case Presentation
C. Marsiglio

2:55 PM – 3:05 PM

Live Cropping the Tricuspid Valve
K. Addetia

3:05 PM – 3:10 PM

Question & Answer
K. Addetia, C. Marsiglio

3:10 PM – 3:15 PM

Left Atrial Appendage Case Presentation
C. Frye

3:15 PM – 3:25 PM

Live Cropping the Left Atrial Appendage
M. Saric

3:25 PM – 3:30 PM

Question & Answer
C. Frye, M. Saric

2:30 PM – 3:30 PM

PC ♦ ♦ **Pediatric Echo Jeopardy Game Show – Ballroom 6B**

Chairs: M. Brook, T. Slesnick

Team A

B. Landeck, N. Pinto, D. Saurers

Team B

J. Acevedo, A. Bhat, J. Kovalchin

Team C

C. Dunbar, N. Khoo, C. Taylor

2:30 PM – 3:30 PM

S Kerber Lecture – Ballroom 6A

Chair: S. Mulvagh

2:30 PM – 2:35 PM

Introduction
S. Mulvagh

2:35 PM – 3:00 PM

Kerber Lecture: The Dick Kerber Only Some of Us Knew
L. Kerber

3:00 PM – 3:30 PM

Women in Echo Networking Session

3:45 PM – 5:15 PM

M R ♦ ♦ **Multimodality Imaging in Cardiomyopathy – Ballroom 6E**

Chairs: A. Hays, C. Kramer

3:45 PM – 3:58 PM

Cardiac MRI Basics: What the Echocardiographer Needs To Know
Y. Han

3:58 PM – 4:11 PM

What Do I Need to Know About Myocardial Fibrosis?
M. Chetrit

4:11 PM – 4:24 PM

Echo Is First Line in Cardiac Amyloid
S. Dorbala

4:24 PM – 4:37 PM

CMR Is First Line in Cardiac Amyloid
A. Choi

4:37 PM – 4:47 PM

P4-03: Three-Dimensional Speckle-Tracking Echocardiography for Assessment of Left Ventricular Myocardial Fibrosis in Patients with End-Stage Heart Failure: Comparison with Cardiac Magnetic Resonance Imaging
Y. Li

4:47 PM – 5:00 PM

Multimodality Imaging in COVID-19

P. Parwani

5:00 PM – 5:15 PM

Question & Answer

3:45 PM – 5:15 PM

S ShowCASE Competition – Ballroom 6C

Chairs: V. Sorrell, R. Stepien

Panelists: M. Makhoud, A. Narang, L. Sugeng

3:45 PM – 3:55 PM

Session Introduction

V. Sorrell

3:55 PM – 4:05 PM

Mysterious Infantile Cyanosis: An Imaging Case Series

(Congenital)

S. Sunthakar

4:05 PM – 4:15 PM

A Rare Case of Cardiac Echinococcosis: The Role of Multimodality Imaging (General)

J. Wedin

4:15 PM – 4:25 PM

Fatal Sinus of Valsalva Aneurysm and Dissection into the Left Ventricle With Extension to the Interventricular Septum: A Challenging Diagnosis (General)

J. Armenta-Moreno

4:25 PM – 4:35 PM

Acquired Stenosis of All Four Heart Valves in a Boxer Mix Dog (Veterinary)

M. Boothe

4:35 PM – 4:45 PM

Beyond the Wires: A Case of Leadless Pacemaker -Mediated Tricuspid Regurgitation (General)

F. Cirne

4:45 PM – 5:00 PM

MACH-1: Sonographer Rapid Fire Cases

5:00 PM – 5:15 PM

Wrap up and Award Presentation

V. Sorrell

DON'T MISS THE *ECHO* MAGAZINE – NOW A MONTHLY ONLINE PUBLICATION!



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Each issue contains:

- *Communications from the ASE President ASE Councils and Specialty Interest Groups*
- *Education Calendar*

Read past issues and learn more at ASEcho.org/EchoMagazine.

GET INVOLVED

ASE Councils bring together ASE members with similar professional interests and areas of expertise, providing a forum for networking, knowledge sharing, provide guidance to the ASE Board of Directors regarding subspecialty area, help create education offerings and guidance on standards of care to the Board and Guidelines and Standards Committee. Council membership is open to all ASE members with an interest in the field, regardless of their area of practice.



Fadi Shamoun, MD, FASE
Mayo Clinic Arizona
Council on Circulation & Vascular Ultrasound Steering Committee Chair



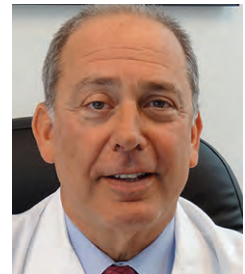
G. Monet Strachan, ACS, RDCS, FASE
University of California San Francisco
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Carolyn Altman, MD, FACC, FAHA, FASE
Baylor College of Medicine
Council on Pediatric and Congenital Heart Disease Steering Committee Chair



G. Burkhard Mackensen, MD, PhD, FASE
University of Washington
Council on Perioperative Echo Steering Committee Chair



Arthur Labovitz, MD, FASE
Naples Cardiac & Endovascular Center
Critical Care Echocardiography Council Steering Committee Chair

Specialty Interest Groups (SIGs) support our members who have a like interest in specialized areas with growth potential in cardiovascular ultrasound. SIGs bring together ASE members with similar professional interests and areas of expertise, providing a forum for networking, knowledge sharing, and the development of SIG-specific programs and services within ASE.



Marielle Scherrer-Crosbie, MD, PhD, FASE
University of Pennsylvania
Cardio-Oncology SIG Chair



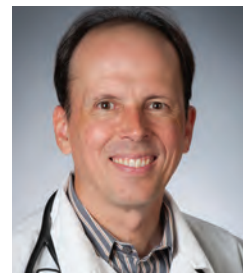
Lucy Safi, DO, FASE
Hackensack University Medical Center
Emerging Echo Enthusiasts (E3) SIG Chair



Muhamed Saric, MD, PhD, FASE
New York University
Interventional Echocardiography (IE) SIG Chair



Patrick McNamara, MD, FASE
University of Iowa
Neonatal Hemodynamics TnECHO SIG (NHTS) Chair



Etienne Côté, DVM
Atlantic Veterinary College | University of Prince Edward Island
Veterinary SIG (VetSIG) Chair

SCHEDULE AT A GLANCE

MONDAY, JUNE 13

All times are Pacific time.

REGISTRATION OPEN: 7:30 AM – 5:30 PM / ECHO EXPO OPEN: 10:00 AM – 4:00 PM						
ROOM	BALLROOM 6E	BALLROOM 6C	BALLROOM 6B	BALLROOM 6A	ROOM 611-612	ROOM 608-609
7:30 – 8:30 AM	BREAKFAST – Lobby on Level 6					
8:00 – 10:00 AM	ARTHUR E. WEYMAN YOUNG INVESTIGATOR COMPETITION and 23 RD ANNUAL FEIGENBAUM LECTURE by Harvey Feigenbaum, MD, FASE – Ballroom 6E					
10:00 – 10:30 AM	REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK (10:00 – 10:45 AM): What is the Volume Status of My Patient: How POCUS Can Help – Chalk Talk Theater Echo Expo					
11:00 AM – 12:30 PM	 Stress Echo: Intersection of Guidelines and Clinical Practice	 Value Summit: Maintaining Value in the Echo Lab	 Deep Dive into the Atria	 Multidisciplinary Approach to Complex Adult Congenital Heart Disease Cases	 Mitral Regurgitation: Stuff You Should Know	 Veterinary Echo Cases
11:00 AM – 12:30 PM	DIY ACQUISITION ROOM: Left Ventricular, Right Ventricular, and Left Atrial Strain – Room 606-607 (Ticketed Event. Additional Fee Required.)					
11:00 AM – 2:30 PM	LEARNING LAB: Strain/3D in Congenital Heart Disease Patients – Room 602-604 (Ticketed Event. Additional Fee Required.)					
12:30 – 2:00 PM	LUNCH BREAK: VISIT ECHO EXPO MODERATED POSTERS: ECHO EXPO CHALK TALK THEATER CHALK TALK (12:30 – 1:15 PM): From Twitter To Tenure: How to Effectively Use Social Media as an Echocardiographer – Room 204					
12:45 – 1:45 PM	SCIENCE AND TECHNOLOGY THEATER 1: BRACCO DIAGNOSTICS INC. SCIENCE AND TECHNOLOGY THEATER 2: LANTHEUS					
2:00 – 3:30 PM	 COVID After the Pandemic	 Artificial Intelligence: Echocardiography and the Global Digital Transformation (Joint ASE/EACVI Session)	 Screening and Diagnosis of Complex Aortic Disease	 Establishing a Structural Interventional Imaging Program: An Echocardiographer's Perspective	 Decoding Mysteries of a Thick Heart	 Great Debates: 3D, Artificial Intelligence, and Multimodality Imaging
2:00 – 3:30 PM	DIY ACQUISITION ROOM: Adult Congenital Heart Disease – Room 606-607 (Ticketed Event. Additional Fee Required.)					
3:30 – 4:00 PM	REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS ~ Passport and ASEF CV Challenge Prizes Announced CHALK TALK (3:30 – 4:15 PM): Educating Fellows in the Art of Imaging – Chalk Talk Theater Echo Expo					
3:30 – 4:00 PM	Speaker's Corner: Great Debates – Atrium Lobby					
4:00 – 5:30 PM	 Discordant Data Dilemmas in Aortic Stenosis	 Great Debates: Transesophageal Echocardiography During Cardiac Arrest Resuscitation	 Deploying Artificial Intelligence Systems in the Echo Lab	 Great Debates: Approaches to Mitral Regurgitation and 3D Quantification	 CODE AORTA! Management and Surveillance of Acute Aortic Syndromes	 Contemporary Role of Echo in Cardio-Oncology
4:00 – 5:30 PM	MEET THE FACULTY NETWORKING SESSION – Room 204					

ACHD (A) **CIRCULATION (C)** **EARLY CAREER (EC)** **IMAGING FUNDAMENTALS (F)** **INNOVATION/TECHNOLOGY (IT)** **ISCHEMIA (I)** **MYOCARDIUM/FUNCTION (M)**
PEDIATRIC/CONGENITAL (PC) **PERIOPERATIVE (P)** **POINT OF CARE (POC)** **RESEARCH (R)** **SPECIAL SESSIONS (S)** **VALVES & STRUCTURAL HEART DISEASE (V)**

BASIC BASIC/INTERMEDIATE INTERMEDIATE INTERMEDIATE/ADVANCED ADVANCED BASIC/INTERMEDIATE/ADVANCED

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

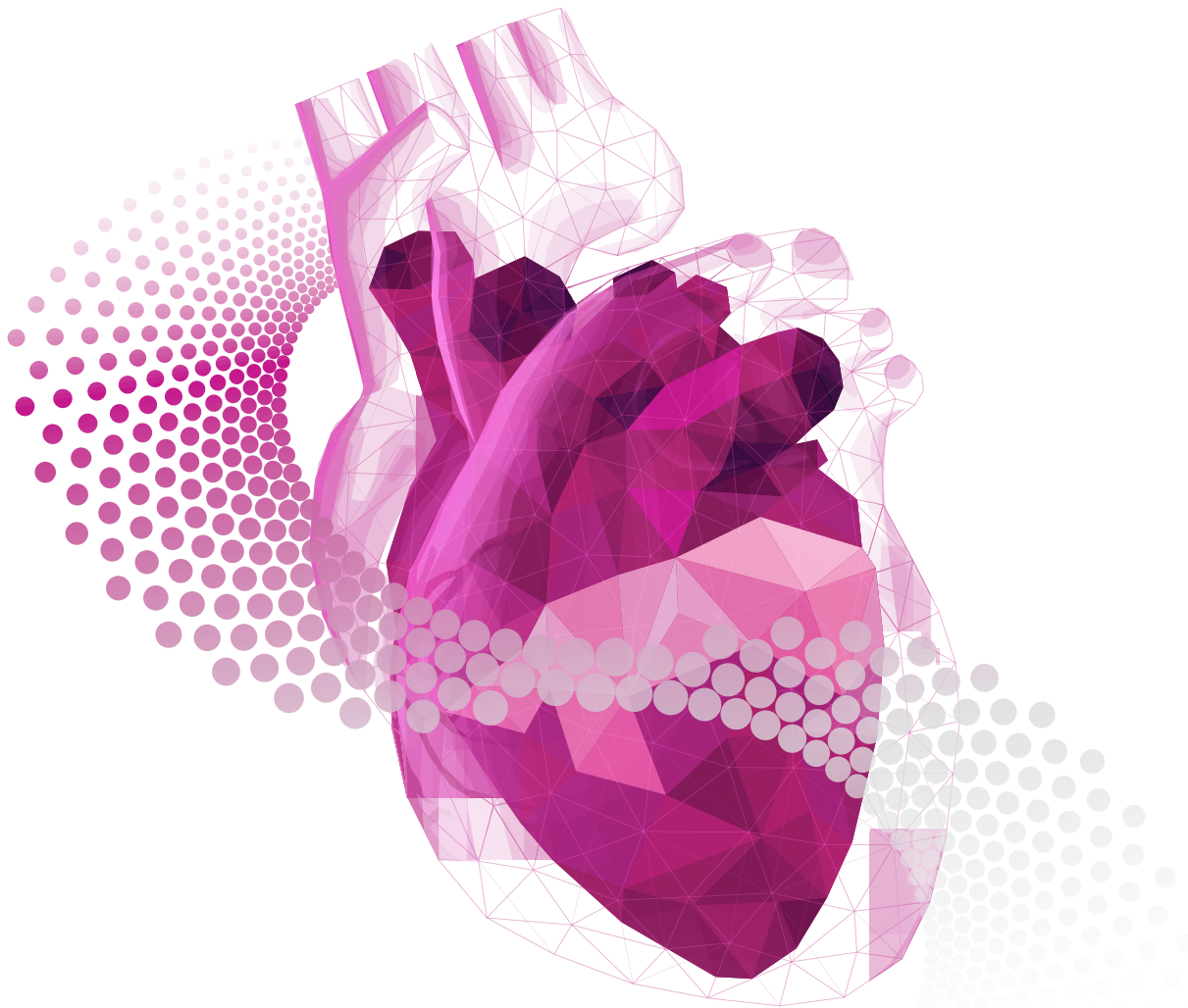


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ESC
European Society
of Cardiology

8:00 AM – 10:00 AM

 Arthur E. Weyman Young Investigator's Award Competition and 23rd Annual Feigenbaum Lecture – Ballroom 6E

Chairs: J. Kirkpatrick

Judges: F. Asch, B. Cosyns, V. Sachdev, S. Siu, R. Stainback

8:00 AM – 8:05 AM

Welcome and Introduction

J. Kirkpatrick

8:05 AM – 8:20 AM

YIA-1: Deep Learning-Based Prediction of Right Ventricular Ejection Fraction Using 2D Echocardiographic Videos

M. Tokodi

8:20 AM – 8:35 AM

YIA-2: Association of Prenatal Level of Care Assignments with Postnatal Clinical Outcomes in Fetuses Diagnosed with Congenital Heart Disease

S. Ro

8:35 AM – 8:50 AM

YIA-3: A Deep Patient-Similarity Learning Framework for Age-Invariant Recognition of Diastolic Dysfunction in Elderly Patients

R. Shah

8:50 AM – 9:05 AM

YIA-4: The Effect of Sonothrombolysis on Infarct Size and Myocardial Salvage in ST Elevation Myocardial Infarction: A Pilot RCT

P. Jeyaprakash

9:05 AM – 9:08 AM

Concluding Remarks

J. Kirkpatrick

9:08 AM – 9:11 AM

Introduction of the Feigenbaum Lecturer

R. Stainback

9:11 AM – 9:46 AM

Feigenbaum Lecture: History of Echocardiography: A Personal Perspective

H. Feigenbaum

9:46 AM – 9:48 AM

Recognition of Feigenbaum Lecturer, Presentation of Plaque, Concluding Remarks

R. Stainback

9:48 AM – 9:53 AM

Recognition of the TOMTEC Innovator Research Travel Grant Recipient, Presentation of Plaque

TOMTEC Representative

9:53 AM – 10:00 AM

Presentation of YIA Plaques and Winner Announcement

J. Kirkpatrick

10:00 AM – 11:00 AM

 ❖ Quality of Waves – Pre-Recorded Viewing Room 208

Chairs: C. Dunbar, C. Fleishman, B. Landeck

Using Echo Images from Other Centers for Research
R. Sachdeva

The Diagnostic Accuracy of Fetal Imaging
K. Stern

Standards in Multimodality Imaging
N. Choueiter

Quality Improvement: The Role of The Sonographer
D. Saurers

Quality Metrics in Echo Reporting
S. Balasubramanian

11:00 AM – 12:30 PM

 Stress Echo: Intersection of Guidelines and Clinical Practice – Ballroom 6E

Chairs: M. Corretti, L. Gillam

11:00 AM – 11:15 AM

Exercise Echo: Challenges in Performing and Reporting the Exercise and EKG Component

K. Maganti

11:15 AM – 11:30 AM

Dobutamine/Atropine Echo: The Double-Edged Sword of Chemicals

L. Gillam

11:30 AM – 11:45 AM

Left Ventricular Opacification Use in Stress Echo Imaging: Not All Patients Read the Guidelines

H. Leong-Poi

11:45 AM – 12:00 PM

Navigating the Selection of a Stress Modality Based on Guidelines

A. DeMaria

12:00 PM – 12:15 PM

P3-14: Patterns of Global Myocardial Work and Efficiency in True vs. False Positive Dobutamine Stress Echocardiography

S. Kachur

12:15 PM – 12:30 PM

Question & Answer

MONDAY, JUNE 13 SCHEDULE

11:00 AM – 12:30 PM

★ Value Summit: Maintaining Value in the Echo Lab – Ballroom 6C

Chairs: S. Mayer, R. Wright

11:00 AM – 11:15 AM

Value of ImageGuideEcho Registry in Echo Lab Accreditation
M. Bremer

11:15 AM – 11:30 AM

Update on ImageGuideEcho Registry
J. Strom

11:30 AM – 11:45 AM

Appropriate Use of Add-on Codes in Echo Lab (3D and Strain)
S. Mayer

11:45 AM – 12:00 PM

Sonographer Shortage, Satisfaction and Career Growth
K. Collins

12:00 PM – 12:15 PM

Maintaining Quality in Echo Lab: Lessons Learned from COVID
G. Rose

12:15 PM – 12:30 PM

Question & Answer

11:00 AM – 12:30 PM

▲ R Deep Dive Into the Atria – Ballroom 6B

Chairs: L. Hua, A. Klein

11:00 AM – 11:10 AM

Imaging the Left and Right Atrium
T. Thompson

11:10 AM – 11:23 AM

Assessment of Left Atrial Function on Echocardiography
E. Donal

11:23 AM – 11:36 AM

Atrial Myopathy: What Does It Mean?
B. Hoit

11:36 AM – 11:49 AM

The Importance of the Left Atrium in Diastolic Dysfunction
S. Nagueh

11:49 AM – 12:02 PM

PC-34: Can Right Atrial Size and Phasic Function Provide Prognostic Information in Cardiac Amyloidosis?
J. Slivnick

12:02 PM – 12:15 PM

What Is the Importance of Right Atrial Assessment?
L. Hua

12:15 PM – 12:30 PM

Question & Answer

11:00 AM – 12:30 PM

▲ R ♦ Multidisciplinary Approach to Complex Cases – Ballroom 6A

Chair: D. DeFaria Yeh

11:00 AM – 11:02 AM

Session Introduction
D. DeFaria Yeh

11:02 AM – 11:10 AM

P5-44: Spontaneous Closure of a Large Ventricular Septal Defect by Fibrotic Tissue in an Adult Patient
R. Murphy

11:10 AM – 11:15 AM

Discussion

11:15 AM – 11:25 AM

Case #1
S. Blissett

11:25 AM – 11:35 AM

Discussion

11:35 AM – 11:40 AM

Case Follow-up
S. Blissett

11:40 AM – 11:50 AM

Case #2
K. Farooqi

11:50 AM – 12:00 PM

Discussion

12:00 PM – 12:05 PM

Case Follow-up
K. Farooqi

12:05 PM – 12:15 PM

Case #3
Z. Steinberg

12:15 PM – 12:25 PM

Discussion

12:25 PM – 12:30 PM

Case Follow-Up
Z. Steinberg

11:00 AM – 12:30 PM

▲ F Mitral Regurgitation: Stuff You Should Know – Room 611-612

Chairs: R. Martin, E. McIlwain

11:00 AM – 11:02 AM

Session Introduction
R. Martin

11:02 AM – 11:10 AM

Case Introduction
A. Dillenbeck

11:10 AM – 11:22 AM

Mitral Valve Anatomy
D. Ignatowski

11:22 AM – 11:34 AM

Why Quantitate Mitral Regurgitation
B. Fey

11:34 AM – 11:46 AM

How To Quantitate: Stroke Volume Methods
C. Kramer

11:46 AM – 11:58 AM

How To Quantitate: PISA Method
D. McCullough

11:58 AM – 12:10 PM

Stress & Strain for Mitral Regurgitation: When and Why
K. Zimmerman

12:10 PM – 12:20 PM

Case Conclusion
A. Dillenbeck

12:20 PM – 12:30 PM

Question & Answer

11:00 AM – 12:30 PM

Veterinary Echo Cases – Room 608-609

Chairs: E. Cote, P. Barker

11:00 AM – 11:05 AM

Introduction
P. Barker

11:05 AM – 11:25 AM

Close to Our Hearts: The Hearts of Household Animals
R. Stepien

11:25 AM – 11:45 AM

In the Wild: The Hearts of More Exotic Animals
L. Nelson

11:45 AM – 12:00 PM

Clinical Vignette
V. Fuentes

12:00 PM – 12:30 PM

Question & Answer

11:00 AM – 12:30 PM

DIY Acquisition Room: Left Ventricular, Right Ventricular, and Left Atrial Strain – Room 606-607

(Ticketed Event. Additional Fee Required.)

DIY Instructors: K. Collins, K. Horton, M. Kraushaar, M. Park, B. Roberts

11:00 AM – 2:30 PM

Learning Lab: Strain/3D in Congenital Heart Disease Patients – Room 602-604

(Ticketed Event. Additional Fee Required.)

Introduction to 3D Imaging Basics of Acquisition
L. Le

Imaging Ventricular Septal Defects in Complex Congenital Heart Disease
P. Jone

Imaging the Common Atrioventricular Valve
D. Roberson

Imaging the Abnormal Mitral Valve
N. Khoo

A Beginner's Guide to Strain Imaging
D. Forsha

Strain Analysis on A Vendor Neutral Platform
J. Brabender

12:45 PM – 1:45 PM

Aortic Stenosis: Diagnostic and Therapeutic Challenges in 2022 – Pre-Recorded Viewing Room 208

Best Practices for Aortic Stenosis Identification by TTE: Pearls for The Busy Sonographer
K. Billick

Challenging Cases of Doppler Quantification: Low Flow, High Flow, Mixed Valvular Heart Disease
S. Robinson

Aortic Stenosis Imaging with CT: TAVR Planning and Beyond
M. Chamsi-Pasha

TAVR Expectations: Expected Hemodynamics and Complication to Recognize
G. Scalia

Newest Applications of TAVR: Update on Aortic Regurgitation, Bicuspid, and Moderate Aortic Stenosis
S. Mankad

Cases: Diagnostic Data; Intervention; Outcomes; Lessons Learned
R. Jain

MONDAY, JUNE 13 SCHEDULE

2:00 PM – 3:30 PM

PC R ❖ **COVID After the Pandemic – Ballroom 6E**

Chairs: C. Altman, P. Parker, T. Bharucha

2:00 PM – 2:12 PM

COVID Impact in the Outpatient Setting

T. Bharucha

2:12 PM – 2:24 PM

Multisystem Inflammatory Syndrome in Children: What Have We Learned

J. Votava-Smith

2:24 PM – 2:36 PM

COVID Vaccination Sequela

D. Truong

2:36 PM – 2:48 PM

Impact of COVID in Latin America: Results of the Inter-American Society of Cardiology Survey

I. Rivera

2:48 PM – 3:00 PM

Multimodality Imaging in COVID

S. Buddhé

3:00 PM – 3:12 PM

Fetal Diagnosis: Impact on Care and Outcomes

B. Arya

3:12 PM – 3:16 PM

P5-08: Association of Echocardiographic Indices with Myocarditis and Presence of Myocardial Delayed Enhancement by Cardiac Magnetic Resonance Imaging in Multisystem Inflammatory Syndrome in Children.

S. Hudson

3:16 PM – 3:20 PM

P5-01: Fatal COVID-19 Fetal Myocarditis

P. Cabrera

3:20 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

S **Global Artificial Intelligence– Ballroom 6C**

(ASE/EACVI Joint Session)

Chairs: B. Cosyns, D. Ouyang



2:00 PM – 2:02 PM

Session Introduction

B. Cosyns

2:02 PM – 2:19 PM

Quality in the Era of the Digital Echo Lab

T. Edvardsen

2:19 PM – 2:36 PM

Digital Health for Echocardiography: Where Do We Stand?

E. Donal

2:36 PM – 2:53 PM

Challenges of Tomorrow Regarding the Use of Artificial Intelligence in Echocardiography

P. Knoll

2:53 PM – 3:10 PM

Big Data and Echocardiography: Perspectives

T. Abraham

3:10 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

C R **Screening and Diagnosis of Complex Aortic Disease – Ballroom 6B**

Chairs: M. Cordio, T. Coutinho

2:00 PM – 2:15 PM

Hereditary Thoracic Aortic Disease and Use of Genetic Testing

R. LeLeiko

2:15 PM – 2:30 PM

The New International Consensus Nomenclature for the Congenital Bicuspid Aortic Valve Condition and Its Aortopathy

H. Michelena

2:30 PM – 2:45 PM

Controversies in the Multimodality Imaging Diagnosis of a Thoracic Aortic Aneurysm

J. Markowitz

2:45 PM – 3:00 PM

Use of Ultrasound in Abdominal Aortic Aneurysm: Are We Screening Enough?

T. Coutinho

3:00 PM – 3:15 PM

P2-01: Prognostic Value of the H₂FPEF Score in Adults with Repaired Coarctation of Aorta

K. Andi

3:15 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

V R Establishing a Structural Interventional Imaging Program: An Echocardiographer's Perspective – Ballroom 6A

Chairs: S. Mankad, N. Quader

2:00 PM – 2:12 PM

Training in Interventional Echocardiography in 2022
E. Garcia-Sayan

2:12 PM – 2:24 PM

How Did I Get Good At 3D TTE? Tips and Tricks for Success
D. Adams

2:24 PM – 2:36 PM

Incorporating Multimodality Imaging in a Structural Heart Imaging Program
R. Janardhanan

2:36 PM – 2:41 PM

P3-29: Echocardiographic Predictors of Tricuspid Regurgitation Improvement After Transcatheter Aortic Valve Replacement
C. Maraboto Gonzalez

2:41 PM – 2:53 PM

Intraprocedural Guidance: How to Survive in the Cath Lab?
L. Safi

2:53 PM – 3:05 PM

Becoming an Indispensable Heart Team Imager: Before and After the Procedure
A. Choi

3:05 PM – 3:17 PM

Institutional Models of Support: Recognizing Interventional Echo Quality, Productivity, and Value
N. Kelly

3:17 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

M  Decoding the Mysteries of the Thick Heart – Room 611-612

Chairs: A. Johri, D. Wiener

2:00 PM – 2:10 PM

A Case of Left Ventricular Hypertrophy On the Ward
A. Woo

2:10 PM – 2:27 PM

Left Ventricular Hypertrophy Phenotypes and How Can Echo Help
L. Gillam

2:27 PM – 2:44 PM

The Hypertrophied Ventricle: When is Echo Good Enough
M. Chetrit

2:44 PM – 2:54 PM

A Case of Athlete's Heart
B. Fey

2:54 PM – 3:11 PM

Echocardiography in the Evaluation of Athletes
A. Johri

3:11 PM – 3:30 PM

Question & Answer

2:00 PM – 3:30 PM

 Great Debates: 3D, Artificial Intelligence, and Multimodality Imaging – Room 608-609

Chairs: A. Powell, A. Vainrib

2:00 PM – 2:10 PM

All 3D, All the Time: Live Multiplanar Reformatting for Structural Interventions
S. Harb

2:10 PM – 2:20 PM

2D + 3D: The Right Image at the Right Time
L. Rudski

2:20 PM – 2:25 PM

Rebuttal: 3D
S. Harb

2:25 PM – 2:30 PM

Rebuttal: 2D
L. Rudski

2:30 PM – 2:40 PM

Your Lab Needs Artificial Intelligence
A. Narang

2:40 PM – 2:50 PM

Your Lab Needs REAL Intelligence
N. Pandian

2:50 PM – 2:55 PM

Rebuttal: AI
A. Narang

2:55 PM – 3:00 PM

Rebuttal: No AI
N. Pandian

3:00 PM – 3:10 PM

Multimodality Imaging is Reality
M. Salerno

MONDAY, JUNE 13 SCHEDULE

3:10 PM – 3:20 PM

Monomodality Echo is King

J. Lu

3:20 PM – 3:25 PM

Rebuttal: Multimodality Training and Practice

M. Salerno

3:25 PM – 3:30 PM

Rebuttal: Echo Training and Practice

J. Lu

2:00 PM – 3:30 PM

A **DIY Acquisition Room: Adult Congenital Heart Disease – Room 606-607**

(Ticketed Event. Additional Fee Required.)

Roving Instructors: H. Hayes, D. Ignatowski, A. Kaminski

Roving Chairs: R. Jain, B. Schwaegler, K. Stout

Normal Model: Congenital Views

H. Borchers

Right Ventricle to Pulmonary Artery Conduit

N. Enger

Transposition of the Great Arteries Repair

L. Hua

Fontan Connections

C. West

3:30 PM – 4:00 PM

EC **Speaker's Corner: Great Debates – Atrium Lobby**

4:00 PM – 5:30 PM

A **❖ Shunt Lesions in Adults – Pre-Recorded Viewing Room 208**

Chairs: R. Ducas, N. Nanda

Percutaneous Closure of Secundum ASDs in Simple and Complex Anatomy

A. Armstrong

Not All Shunts Are Holes - Anomalous Pulmonary Veins

C. West

Percutaneous Closure of Sinus Venosus ASDs - The Next Frontier

S. Kabir

Not All Holes Are Bad - Importance of Septal Defects in Selected Conditions

R. Macrae

Panel Discussion

4:00 PM – 5:30 PM

F **Discordant Data Dilemmas in Aortic Stenosis – Ballroom 6E**

Chairs: J. Gardin, M. LeFevre

4:00 PM – 4:02 PM

Session Introduction

J. Gardin

4:02 PM – 4:10 PM

Case Introduction

M. Parker

4:10 PM – 4:22 PM

Common Technical Errors

C. Bergeron

4:22 PM – 4:34 PM

Fundamentals of Low Flow States

K. Billick

4:34 PM – 4:46 PM

Prognostic Value of Flow Rate

R. Mankad

4:46 PM – 4:58 PM

Deciphering Results with Stress Echo

G. Strachan

4:58 PM – 5:10 PM

How Can Strain Help?

J. Warmsbecker

5:10 PM – 5:20 PM

Case Conclusion

M. Parker

5:20 PM – 5:30 PM

Question & Answer

4:00 PM – 5:30 PM

POC **Great Debates: Transesophageal Echocardiography During Cardiac Arrest Resuscitation – Ballroom 6C**

Chairs: S. Mankad, S. Nikravan

4:00 PM – 4:30 PM

Resuscitative TEE in the Operating Room

S. Nikravan

4:30 PM – 5:00 PM

Resuscitative TEE in the Intensive Care Unit

J. Horowitz

5:00 PM – 5:30 PM

Resuscitative Transesophageal Echocardiography Across Acute Care Settings

F. Teran

4:00 PM – 5:30 PM

★ Deploying AI Systems in the Echo Lab – Ballroom 6B

Chairs: C. Chow, D. Ouyang

4:00 PM – 4:10 PM

40,000 Foot Overview

C. Chow

4:10 PM – 4:25 PM

View Classification and Organizing Echo Studies

R. Arnaout

4:25 PM – 4:40 PM

Automated Pipelines for Disease Detection and Characterization

D. Ouyang

4:40 PM – 4:55 PM

Integrations into Clinical Echo Labs

M. Jankowski

4:55 PM – 5:10 PM

Point of Care Ultrasound

P. Sengupta

5:10 PM – 5:30 PM

Question & Answer

4:00 PM – 5:30 PM

Ⓟ Great Debates: Approaches to Mitral Regurgitation and 3D Quantification – Ballroom 6A

Chairs: K. Howard-Quijano, J. Thaden

4:00 PM – 4:04 PM

Session Introduction

K. Howard-Quijano

4:04 PM – 4:09 PM

Case Presentation

K. Horton

4:09 PM – 4:22 PM

To Clip It or Snip It? Surgical Repair (Mitral Regurgitation)

D. Ramzy

4:22 PM – 4:35 PM

To Clip It or Snip It? Interventional Repair (Mitral Regurgitation)

G. Mackensen

4:35 PM – 4:43 PM

Rebuttal

G. Mackensen, D. Ramzy

4:43 PM – 4:48 PM

Case Presentation

R. Vadlamudi

4:48 PM – 5:01 PM

3D Quantification in An Era of 2D Guidelines: 3D Measurements

Guide Us

A. Smer

5:01 PM – 5:14 PM

3D Quantification in An Era of 2D Guidelines: 3D Measurements

Can't Help Us Yet

A. Faloye

5:14 PM – 5:22 PM

Rebuttal

A. Faloye, A. Smer

5:22 PM – 5:30 PM

Question & Answer

4:00 PM – 5:30 PM

▲ CODE AORTA! Management and Surveillance of Acute Aortic Syndromes – Room 611-612

Chairs: C. Fanola, R. Janardhanan

4:00 PM – 4:15 PM

Acute Aortic Syndromes and Cardiac Complications

S. Henkin

4:15 PM – 4:30 PM

Complications of Thoracoabdominal Aortic Disease and the Chronic Dissection

R. LeLeiko

4:30 PM – 4:45 PM

Perioperative TEE Guidance in Aortic Repair

C. Fanola

4:45 PM – 5:00 PM

Imaging Surveillance of Post-Operative Thoracic Aortic Disease for the Echocardiographer

J. Markowitz

5:00 PM – 5:30 PM

Question & Answer

MONDAY, JUNE 13 SCHEDULE

4:00 PM – 5:30 PM

M Contemporary Role of Echo in Cardio-Oncology – Room 608-609

Chairs: J. Liu, J. Lopez-Mattei

4:00 PM – 4:10 PM

Case Presentation of Cardiotoxicity as a Prelude to the Next Talk
C. Angulo

4:10 PM – 4:23 PM

Surveillance and Treatment of Cancer Therapy Related Cardiac Dysfunction
N. Akhter

4:23 PM – 4:36 PM

Radiation-induced Changes in the Heart
M. Scherrer-Crosbie

4:36 PM – 4:49 PM

Check Point Inhibitors: What Are They and What Do I Need to Watch For?
A. Barac

4:49 PM – 5:02 PM

How to Use Strain in the Oncology Population
J. Plana

5:02 PM – 5:15 PM

Vascular Toxicity Related to Cancer Therapy
A. Yu

5:15 PM – 5:30 PM

Question & Answer

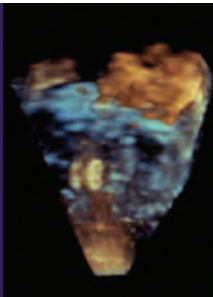
4:00 PM – 5:30 PM

★ Meet the Faculty Networking Session – Room 204

Hosts: S. Buddhe, J. Strom, T. Thompson

M. Cohen, B. Eidem, L. Gillam, J. Hung, L. Lopez, C. Otto, V. Rigolin, M. Swaminathan, N. Weissman

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Image Calendar COMPETITION is back for 2023

Deadline to submit images is August 8

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Alexandra Gardner, RDCS (AE, PE), FASE

Sarasota Memorial Health Care System



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.



José L. Díaz-Gómez, MD, FCCM, FASE, NCC (UCNS)

Baylor St. Luke's Medical Center



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!



Pei-Ni Jone, MD, FASE

Children's Hospital Colorado, University of Colorado Anschutz Medical Campus



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.



Muhamed Saric, MD, PhD, FASE

New York University



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.



Lucy M. Safi, DO, FASE

Hackensack University Medical Center



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: Rooms 615-617

Saturday, June 11 9:00 AM – 4:00 PM
 Sunday, June 12 9:00 AM – 4:00 PM
 Monday, June 13 9:00 AM – 4:00 PM



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BOOTH #1907



BOOTH #1715



BOOTH #1726

SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

FRIDAY, JUNE 10

ASE COUNCIL NETWORKING EVENTS

3:45 – 5:30 PM

ASE's four Councils will hold concurrent networking events on Friday afternoon. These events provide attendees the opportunity to learn about the Councils as they hold a brief business meeting followed by networking. If you are not currently a member of a Council, please plan to visit all four sessions and decide which one, or more, will be a good match for helping you advance your career.

WELCOME RECEPTION FEATURING ASE'S SPECIALTY INTEREST GROUPS

5:30 – 6:30 PM

Join us for a Welcome Reception, where complimentary beer and wine, and light hors d'oeuvres will be served, to kick off the ASE 2022 Scientific Sessions! Each of ASE's six Specialty Interest Groups (SIGs), Cardio-Oncology, Critical Care Echocardiography (CCE), Emerging Echo Enthusiasts (E3), Interventional Echocardiography (IE), Neonatal Hemodynamics TnECHO SIG (NHTS) and Veterinary, will have a designated area to gather that will make it easy for attendees to interact and learn about the SIGs. The Welcome Reception will take place in Ellis Plaza (outdoors, weather permitting) and Atrium Lobby Level 4.

SATURDAY, JUNE 11

ASEF CARDIOVASCULAR CHALLENGE

ASEF BOOTH ATRIUM LOBBY LEVEL 4



Compete with your feet and get moving with the ASE Foundation Cardiovascular Challenge. Sign up to participate at the ASEF Booth in the Atrium Lobby Level 4, then record your miles exercised every day and log them at the booth. The person with the most overall miles logged will receive a \$150 Amazon gift card, second place will receive a \$75 Amazon gift card, and the person with the third highest will receive a limited edition ASEF hat. The winners will be announced Monday, June 13, at 3:30 PM in the Echo Expo. Special thanks to our 2022 Cardiovascular Challenge sponsors, AGFA HealthCare, CIVCO Medical Solutions, DiA Imaging Analysis, and the Intersocietal Accreditation Commission (IAC).



HEARTS ALL AROUND US GALLERY

A special curated showcase of photographs will be on display from Saturday - Monday. This year's photo exhibit is *Hearts All Around Us*, and will showcase photographs of heart-shaped things you have come across in nature, architecture, and everyday life. Many photos will be available to take home with a donation to the ASE Foundation. Stop by the ASE Foundation booth to see hearts all around.

STATE OF ASE, AWARDS PRESENTATION, FASE AND LEADERSHIP ACADEMY RECOGNITION, INCOMING PRESIDENT'S MESSAGE, AND 33RD ANNUAL EDLER LECTURE

7:00 – 9:30 AM

BALLROOM 6E LEVEL 6



Catherine Otto, MD, FASE, University of Washington Medical Center, Seattle, Washington, will present "Aortic Valve Stenosis: Moving from Diagnosis to Patient Outcomes" as the 33rd Annual Edler Lecture on Saturday morning, June 11. Dr. Otto is the J. Ward Kennedy-Hamilton Endowed Chair in Cardiology, Professor of Medicine, and Director of the Heart Valve Clinic at the University of Washington School of Medicine. She is recognized internationally as an expert in the diagnosis and management of heart valve disease, Marfan syndrome, and other inherited structural heart conditions. Dr. Otto's research has transformed our understanding of calcific valve disease, showing that it may be amenable to medical therapy rather than being an inevitable consequence of aging. She is the author of several cardiology textbooks and cardiology editor-in-chief for the online medical textbook, *UpToDate*. Created in 1990, the annual Edler Lecture honors the founder of echocardiography, Dr. Inge Edler.

LIFETIME ACHIEVEMENT AWARDS

ASE Lifetime Achievement Awards recognize 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.



Arthur J. Labovitz, MD, FACC, FACP, FCCP, FASE, FAHA, Naples Cardiac & Endovascular Center (Retired), Naples, FL, has been named the 2022 Physician Lifetime Achievement Award recipient. Dr. Labovitz has made numerous contributions to echocardiography in his 40-year career as a clinician-researcher, mentor, and volunteer. In addition to serving in a variety of leadership positions at major hospitals in Missouri and Florida, Dr. Labovitz had led and participated in more than 100 clinical research studies and has published over 400 scientific articles, books, and book chapters. As an active member of many health-care-related organizations, he served on ASE's Board of Directors from 1995-1997; numerous ASE committees; and most recently he helped establish the ASE Critical Care Specialty Interest group that will become the Critical Care Council in July 2022. He is also a founding member and Past President of the National Board of Echocardiography.



Carol Mitchell, PhD, RDMS, RDCS, RVT, RT(R), ACS, FASE, University of Wisconsin, Madison, WI, has been named the 2022 Sonographer Lifetime Achievement Award recipient. Dr. Mitchell is being honored for her exceptional capabilities as a sonographer, instructor, and leader in ultrasound imaging and

for the many ways she has helped advance the role sonographers play in providing quality patient care. A prolific teacher and education researcher, Dr. Mitchell was awarded the Society of Diagnostic Medical Sonography's Distinguished Educator of the Year Award in 2006 and ASE's Cardiac Sonographer Distinguished Teacher Award in 2010. She has held a variety of volunteer leadership positions on ASE councils, committees, and task forces—including serving as ASE's Treasurer from 2018-2021. Dr. Mitchell has been instrumental in helping ASE create adaptive learning models and resources that provide quality cardiovascular education to all members.

RICHARD POPP EXCELLENCE IN TEACHING AWARD



Recognized for his passion for education, love of echocardiography, and his ability to combine the two to inspire all levels of learners,

Gregory J. Ensing, MD, FASE, University of Michigan, Ann Arbor, MI, has been named the 21st annual recipient of the Richard Popp Excellence in Teaching Award. Dr. Ensing has

helped train more than 100 practicing pediatric and adult cardiologists, and is proud to have mentored many gifted sonographers, echocardiography lab directors, and pediatric ASE leaders. He is also a recipient of the Morris Green Pediatric Teaching Award at Indiana University and the inaugural Dennis Crowley Pediatric Cardiology Teaching Award at the University of Michigan. This ASE teaching award is given in honor of the Society's second president, Richard L. Popp, MD, FASE, and recognizes physicians who epitomize the ideal qualities possessed by a mentor and role model.

OUTSTANDING ACHIEVEMENT IN PERIOPERATIVE ECHOCARDIOGRAPHY AWARD



Annette Vegas, MD, FASE, Toronto General Hospital, Toronto, Ontario, Canada, has been named the 9th recipient of the Outstanding Achievement in Perioperative Echocardiography Award. Dr. Vegas is a well-respected perioperative echocardiographer and currently serves as the Director of Perioperative Echocardiography at Toronto General Hospital in Canada. Her clinical interests are cardiac anesthesia, adult congenital heart disease, and TEE. In addition to authoring an impressive list of books, book chapters, and articles on echocardiography, she is an award-winning

educator and developer of the popular educational website Virtual TEE (<http://pie.med.utoronto.ca>). She is also an original organizer of the largest TEE meeting in Canada—the TGH TEE Symposium. The Council recognizes an individual who has made significant clinical, research, or educational contributions to the development of the field of perioperative echocardiography with the presentation of this award.

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



Lisa Hornberger, MD, FASE, Stollery Children's Hospital, Edmonton, Alberta, Canada, is being honored as the 17th 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. Nearly 30 years ago, Dr. Hornberger was introduced to research in pediatric and fetal echocardiography by her mentor and friend, the late David Sahn, MD, FASE. She has served as the Director of Fetal Cardiac Programs at internationally recognized institutions in the United States and Canada, and her work has played a role in starting some of the first early fetal echocardiography programs in North America. Dr. Hornberger's research has spanned clinical, population, health services, and basic science research pillars through strategic collaborations with local, regional, national, and international colleagues.

COUNCIL ON CIRCULATION & VASCULAR ULTRASOUND LUMINARY AWARD



The Council on Circulation & Vascular Ultrasound (CAVUS) is pleased to present **Soo Hyun (Esther) Kim, MD, MPH, RPVI, FASE**, Vanderbilt University Medical Center, Nashville, TN, with the inaugural CAVUS Luminary Award for her many contributions to the

scholarly, educational, and clinical endeavors in the fields of circulation and vascular ultrasound. In addition to authoring an impressive list of peer-reviewed publications and reviews, Dr. Kim has given more than 100 invited lectures on vascular imaging. Dr. Kim was an author on the ASE document "Recommendations for the Assessment of Carotid Arterial Plaque by Ultrasound for the Characterization of Atherosclerosis and Evaluation of Cardiovascular Risk" and she chaired the writing committee for the 2020 Society of Vascular Medicine/Society of Vascular Ultrasound "Consensus Statement for the Interpretation of Arterial and Venous Doppler Waveforms," a document that will standardize reporting in vascular labs across the world.

MERITORIOUS SERVICE AWARD



ASE is pleased to present **Neil J. Weissman, MD, FACC, FASE**, MedStar Health Washington, DC, with the 2022 Meritorious Service Award, which recognizes individual members for their substantial and generous efforts to the Society's betterment. Dr. Weissman is an ASE all-star. He served as President from

2014-2015, Chair of two successful Echo Hawaii courses, and has chaired or co-chaired a large number of committees and task forces. His work as Chair of the Governance and Compliance Committee spearheaded changes in the organization's structure and code of ethics. He conceived of, and implemented, the ASE Leadership Academy as a way of growing the future leadership of the Society ensuring they develop the necessary skills to effectively lead ASE into the future. When not going above and beyond as a volunteer, Dr. Weissman works as the Chief Scientific Officer for MedStar Health in Washington, D.C. and Maryland, and Professor of Medicine (Cardiology) at Georgetown University School of Medicine.

MENTORSHIP AWARD



ASE recognizes **Karen Zimmerman, BS, ACS, RDCS (AE, PE), RVT, FASE**, Henry Ford Health System, Detroit, MI, as the 2022 Mentorship Award recipient. Ms. Zimmerman is a founding Editor-in-Chief of CASE. She started as the only sonographer in a small northern Michigan hospital. She became the

Advanced Imaging Specialist for Munson Healthcare bringing 3D image-guidance to the open-heart and transcatheter programs. She established the West Virginia University School of Echocardiography, and now provides sonographer education and QA as Quality Facilitator for Henry Ford Health. Ms. Zimmerman has served on various ASE councils, writing groups and special projects. She serves on the Michigan Society of Echocardiography and Michigan ACC Cardiovascular Team. Her career has centered on mentoring across the full spectrum of clinical echocardiographers, those for whom English is a second language, and first-time authors and imagers from around the world.

CHALK TALKS

9:30 – 10:00 AM | 12:00 – 12:45 PM |
2:30 – 3:00 PM
ROOM 204 LEVEL 2

Have clinical questions? This is your opportunity to get answers from luminaries in the field of echo in an intimate setting. During the morning break, **Theodore Abraham, MD, FASE**, will be available to answer all of your questions about Advanced Hemodynamics in Hypertrophic Cardiomyopathy. During the lunch break you can hear all about the three ASE Foundation E21 Research Grants from **Patricia Pellikka, MD, FASE, Jonathan Rubin, MD, PhD**, and **David Giraud, MD**. The afternoon Chalk Talk is sponsored by Pie Medical Imaging and will feature Strain Imaging and Left Ventricular Mechanics with **James Thomas, MD, FASE**.

KALMANSON LECTURE

10:00 – 11:30 AM
ROOM 611-612 LEVEL 6



The ASE Foundation is honored to recognize **Olivier Villemain, MD, PhD**, The Hospital for Sick Children, Toronto, Ontario, Canada, as the 2022 Kalmanson Lecturer. Established in memory of Professor Daniel Kalmanson, a pioneer in the use of Doppler echocardiography, and funded through a grant from the International

Cardiac Doppler Society (ICDS), this annual lectureship provides a forum for honoring worthy investigators while promoting research and education in cardiovascular Doppler ultrasound. Dr. Villemain will present his lecture entitled "Ultrafast Ultrasound: Insight Into Left Ventricular Mechanics" during the New Waves to Assess Ventricles session.

PRESIDENT'S RECEPTION

4:00 – 6:00 PM
ECHO EXPO

All attendees are invited to celebrate ASE 2022 at the President's Reception, hosted by ASE President, **Raymond Stainback, 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. Nearly 40 exhibitors will be showcasing their products. 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 during the registration process.

SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

ASE 2022 PRESIDENT'S CIRCLE (PC)

POSTER SESSION

4:00 – 6:00 PM

TOPIC

POSTERS

3D EchocardiographyPC-01 through PC-02

Artificial Intelligence /
Machine LearningPC-03 through PC-05

New TechnologyPC-06 through PC-08

Cardio-OncologyPC-09 through PC-10

Critical Care Ultrasound /
Point of Care UltrasoundPC-11 through PC-12

Echocardiography in Myocardial
Disease (HCM, Amyloidosis,
Sarcoidosis, Chagas)PC-13 through PC-14

Echocardiography in Systemic
Diseases (DM, HTN, Obesity) /
Pericardial DiseasePC-15 through PC-20

Pediatric & Congenital
Heart DiseasePC-21 through PC-31

Quality / Practice Improvement /
EducationPC-32 through PC-33

Value of Echocardiography
(Quality & Cost) / Outcomes /
Comparative EffectivenessPC-34

Valvular Heart Disease: AortaPC-35 through PC-37

Valvular Heart Disease: MitralPC-38 through PC-41

Ventricular Function /
Myocardial MechanicsPC-42 through PC-52

SCIENCE & TECHNOLOGY THEATER

4:30 – 5:15 PM

ECHO EXPO

THEATER 1

Imaging the Heart: Echocardiographic Approaches for HCM

Presented by Bristol Myers Squibb

This session reviews echo imaging and findings that should raise considerations for obstructive hypertrophic cardiomyopathy (oHCM) and describes evaluations of left ventricular hypertrophy, ejection fraction, and outflow tract obstruction as components of patient assessment.

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 2022 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

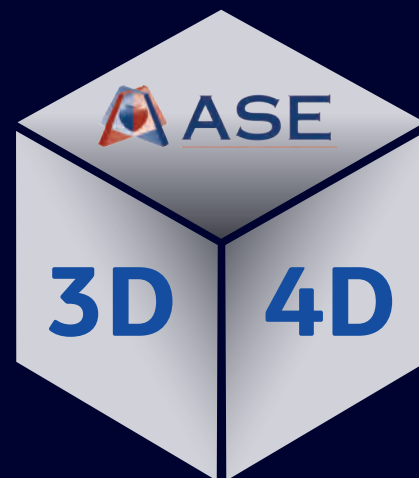
ASE has partnered with echo companies to facilitate 3D/4D data connections and integrations across vendors.

Join these vendors alongside leaders from ASE for a public demonstration of interoperable 3D/4D data and see how we are working together to provide seamless access.

Sunday: 12:15 – 1:00 PM

Monday: 10:00 – 11:00 AM

Visit Booth #1420 in the Echo Expo



SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

SUNDAY, JUNE 12

POSTER SESSION 1 (P1)

9:00 AM – 2:45 PM

ECHO EXPO

MODERATED POSTER SESSION 1

11:00 AM – 1:00 PM

Critical Care Ultrasound /
Point of Care UltrasoundPC-11

Echocardiography in Systemic Disease
(DM, HTN, Obesity) / Pericardial DiseasePC-15

Pediatric & Congenital
Heart Disease.....PC-21 through PC-25

Valvular Heart Disease: AortaPC-35 through PC-36

Valvular Heart Disease: MitralPC-38 through PC-40

SESSION 1 (P1): 9:00 – 9:45 AM

Critical Care Ultrasound /
Point of Care Ultrasound P1-01 through P1-08

Echocardiography in Myocardial
Disease (HCM, Amyloidosis,
Sarcoidosis, Chagas)..... P1-09 through P1-17

Echocardiography in SOE /
Arrhythmias / Atrial Function P1-18 through P1-23

Echocardiography in Systemic
Diseases (DM, HTN, Obesity) /
Pericardial Disease..... P1-24 through P1-39

Adult Patient Cases P1-40 through P1-51

SESSION 2 (P2): 10:00 – 10:45 AM

Adult Congenital Heart Disease..... P2-01 through P2-06

Pediatric & Congenital
Heart Disease..... P2-07 through P2-52

SESSION 3 (P3): 1:00 – 1:45 PM

Diseases of the Aorta /
Vascular Diseases P3-01 through P3-02

Valvular Heart Disease: Aorta P3-03 through P3-13

Valvular Heart Disease: Mitral P3-14 through P3-28

Valvular Heart Disease:
Tricuspid & Pulmonic P3-29 through P3-36

Intraprocedural Echocardiography
(Operating Room and
Interventional Lab) / TEE..... P3-37 through P3-41

Adult Patient Cases P3-42 through P3-52

SESSION 4 (P4): 2:00 – 2:45 PM

Adult & Pediatric Heart Failure /
Transplant / Other..... P4-01 through P4-07

Athlete's Heart P4-08

Cardio-Oncology P4-09 through P4-10

Doppler / Hemodynamics..... P4-11

Ischemic Heart Disease P4-12 through P4-14

Ventricular Function /
Myocardial Mechanics P4-15 through P4-23

Adult Patient Cases P4-24 through P4-52

GARDIN LECTURE

8:30 – 9:00 AM

BALLROOM 6E LEVEL 6



ASE is proud to have **Suzanne Simard, PhD**, Professor of Forest Ecology at the University of British Columbia and author of *Finding the Mother Tree: Discovering the Wisdom of the Forest* deliver the 4th Annual Gardin Lecture, "Finding the Mother Tree" on Sunday, June 12. This lectureship was endowed to the ASE

Foundation through a generous gift from ASE Past President, 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.

BOOK SIGNING WITH SUZANNE SIMARD, PHD

9:00 – 10:00 AM

ASE FOUNDATION TABLE LEVEL 6



Dr. Simard will be signing copies of her book *Finding the Mother Tree: Discovering the Wisdom of the Forest*. Copies of the book were available for pre-order and a limited number are available for purchase on-site. 100% of each sale will be treated as a charitable donation to the ASE Foundation. Be sure to stop by and meet the author of this fascinating book!

SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

CHALK TALKS

9:00 – 9:30 AM | 2:00 – 2:30 PM
ECHO EXPO – CHALK TALK THEATER

11:30 AM – 12:15 PM
ROOM 204 LEVEL 2

Jonathan Lindner, MD, FASE, will be sharing about Novel Uses of Agitated Saline and Contrast in Ultrasound and answering your questions during the morning break. The Future of QI in Pediatric Cardiology: The QI Consortium is the topic of the lunch Chalk Talk with **Ritu Sachdeva, MBBS, FASE, Brian Soriano, MD, FASE**, and **Kenan Stern, MD, FASE**. The afternoon break will feature **William Zoghbi, MD, FASE**, discussing Aortic Stenosis: Clarifying the Concepts of Severity.

SCIENCE & TECHNOLOGY THEATERS

9:00 – 9:45 AM
ECHO EXPO

THEATER 1

Optimizing Imaging in the MitraClip™ Procedure to Treat Complex Mitral Valve Anatomies: A Case Based Discussion
Presented by Abbott

Join us to learn more about screening for mitral regurgitation in patients with complex mitral valve anatomies, and for a case-based discussion on ways to optimize imaging during a MitraClip™ Procedure to treat both simple and complex anatomies.

THEATER 2

Utilizing Imaging Approaches to Identify Patients with Transthyretin Amyloid Cardiomyopathy (ATTR-CM) for Appropriate Treatment
Presented by Pfizer

Transthyretin amyloid cardiomyopathy (or ATTR-CM) is an under-recognized and underdiagnosed disease that presents as heart failure. This presentation will provide an overview of the importance of echocardiography imaging in the detection and diagnosis of patients with ATTR-CM. Throughout the program, the focus will be on the burden of disease, signs and symptoms, confirming suspicion, and screening for ATTR-CM in patients who may be undiagnosed. The program will end with an overview of a treatment option for patients with ATTR-CM.

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

These sessions are not part of the official ASE 2022 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

SCIENCE & TECHNOLOGY THEATERS

11:15 AM – 12:15 PM
ECHO EXPO

THEATER 1

Advanced Contrast Echo for Ischemic Heart Disease
Presented by GE Healthcare

The use of ultrasound-enhancing agents (UEAs) is now considered essential for state-of-the-art echocardiography. The aim of this symposium is to provide education on applications of contrast echocardiography in ischemic syndromes beyond LV opacification, including myocardial perfusion imaging and therapeutic applications.

THEATER 2

Novel Approach to 3D Use in Routine and Interventional Echocardiography Exams
Presented by Philips

Join leading imagers, researchers, and professors in exploring new and emerging 3D echocardiography solutions designed to strengthen clinical confidence, build efficiency through the care pathway, and improve cardiac care experiences.

Lunch is provided by ASE, with support from GE Healthcare and Philips, and is included in all Scientific Sessions registration fees. Space and food are first come, first served.

These sessions are not part of the official ASE 2022 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

ImageGuideEcho REGISTRY INFORMATION SESSION

11:30 AM – 12:00 PM
ECHO EXPO

Expanding the Registry – The Pediatric Echo Module
Dan Forsha, MD, MCS, FASE & Leo Lopez, MD, FASE

BRIAN HALUSKA SONOGRAPHER RESEARCH AWARD COMPETITION

1:00 – 2:00 PM
BALLROOM 6C LEVEL 6

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.

SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

Gary Coburn, RDCS, RCCS, RCS, CCT, Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN – Reproducibility of Pediatric Echocardiographic Strain Data Comparing Two Commonly Used Analysis Methods

Mary Craft, RDCS, FASE, Children's Hospital and Medical Center, Omaha, NE – Use of Layer Specific Strain Imaging and Shear Wave Elastography to Evaluate Subclinical Cardiovascular Dysfunction in Patients with Turner's Syndrome

Joey Goulding, RCS, RCCS, Seattle Children's Hospital, Seattle, WA – Incorporating Ergonomic Scanning Practices in Echocardiography Lab Using Quality Improvement Methodology

Cassandra Polsen, RDCS, Children's Hospital Colorado, Aurora, CO – Right Heart Function and Recovery in Multisystem Inflammatory Syndrome in Children

ImageGuideEcho REGISTRY INFORMATION SESSION

2:00 – 2:30 PM
ECHO EXPO

ASE & IAC – A Continued Alignment in Quality
David H. Wiener, MD, FASE

SCIENCE & TECHNOLOGY THEATER
2:00 – 2:45 PM
ECHO EXPO

THEATER 1

AI: Revolutionizing the Diagnosis of Heart Disease in Echocardiography
Presented by Ultromics

Ultromics CEO & Founder, Dr. Ross Upton welcomes Dr. Patricia Pellikka from Mayo Clinic and Dr. Federico Asch from MedStar Health to share the latest studies and advances in AI for echocardiography. Learn about the latest results using Ultromics' revolutionary AI-powered solutions for advanced heart disease detection and prediction.

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

This session is not part of the official ASE 2022 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

KERBER LECTURE

2:30 – 3:00 PM
BALLROOM 6C LEVEL 6



The ASE Foundation is proud to recognize **Linda K. Kerber, PhD**, May Brodbeck Professor in Liberal Arts & Sciences, University of Iowa, Iowa City, Iowa, as the 2022 Richard E. Kerber Ethics/Humanitarian Lecturer. Dr. Kerber, who is the widow of Dr. Richard Kerber, will present "The Dick Kerber Only Some of Us Knew." This annual 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 will feature an ethical dilemma or humanitarian patient care activity. The Women in Echo Networking session will immediately follow the Kerber Lecture.

ShowCASE Competition (Supported by Elsevier)
3:45 – 5:15 PM
BALLROOM 6C LEVEL 6

This exciting NEW 90-minute session, chaired by CASE Editor-in-Chief **Vincent L. Sorrell, MD, FASE**, and CASE Associate Editor **Rebecca L. Stepien, DVM, MS, DACVIM**, will feature authors representing the best CASEs published in 2021. 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 presentation. 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 Posters in a fun and succinct Rapid-Fire event aimed at enticing you to visit their scholarly research work.

ASE FOUNDATION RESEARCH AWARDS GALA
7:00 – 11:00 PM
GRAND HYATT SEATTLE

The premier annual fundraiser for the ASE Education and Research Foundation is the 13th Annual Research Awards Gala. The ASE Foundation is proud to host a magical evening in the Emerald City to celebrate cardiovascular ultrasound research and honor ASE's 2022 award recipients. Black tie is encouraged for this evening of entertainment, dinner, and dancing. Event proceeds support research activities that advance the progress and future of our field. Tickets are required. New this year, the Foundation is proud to introduce five Legacy Tables in honor of five ASE luminaries: Drs. Harvey Feigenbaum, Liv Hatle, Mary Etta King, Nelson Schiller, and Arthur Weyman. Each luminary was nominated for this honor, and a table will be dedicated in their name for five years. For more information and to pick up your table assignment for the event, visit the ASE Foundation booth, located in the Atrium Lobby on Level 4 prior to 5:00 PM on Sunday.

SPECIAL EVENTS AND NETWORKING OPPORTUNITIES

MONDAY, JUNE 13

POSTER SESSION 2 (P2)

10:00 AM – 4:00 PM

ECHO EXPO

MODERATED POSTER SESSION 2

12:30 – 2:00 PM

Adult & Pediatric Heart Failure /

Transplant / Other JSE-1

3D Echocardiography PC-01

Quality / Practice Improvement / Education PC-32

Ventricular Function /

Myocardial Mechanics PC-42 through PC-47

SESSION 5 (P5): 10:00 – 10:45 AM

COVID-19 P5-01 through P5-06

COVID-19 Patient Cases P5-07 through P5-13

Quality / Practice Improvement /

Education P5-14 through P5-28

Value of Echocardiography

(Quality & Cost) / Outcomes /

Comparative Effectiveness P5-29 through P5-31

3D Echocardiography P5-32 through P5-39

Contrast Echocardiography P5-40 through P5-43

Pediatric & Congenital Patient

Cases P5-44 through P5-50

SESSION 6 (P6): 11:00 – 11:45 AM

New Technology P6-01 through P6-06

Artificial Intelligence /

Machine Learning P6-07 through P6-19

Pediatric & Congenital Patient

Cases P6-20 through P6-48

SESSION 7 (P7): 2:00 – 2:45 PM

Adult Patient Cases P7-01 through P7-51

ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION AND 23RD ANNUAL FEIGENBAUM LECTURE

8:00 – 10:00 AM

BALLROOM 6E LEVEL 6

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.

Prajith Jeyaprakash, Bmed MD, MMed (Clin Epi), FRACP, Nepean Hospital, Kingswood, Australia – The Effect of Sonothrombolysis on Infarct Size and Myocardial Salvage in ST Elevation Myocardial Infarction: A Pilot RCT

Sanghee Ro, MD, Children's Healthcare of Atlanta, Atlanta, GA – Association of Prenatal Level of Care Assignments with Postnatal Clinical Outcomes in Fetuses Diagnosed with Congenital Heart Disease

Rohan Shah, MD, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ – A Deep Patient-Similarity Learning Framework for Age-Invariant Recognition of Diastolic Dysfunction in Elderly Patients

Márton Tokodi, MD, WVU Heart & Vascular Institute, Morgantown, WV – Deep Learning-Based Prediction of Right Ventricular Ejection Fraction Using 2D Echocardiographic Videos

FEIGENBAUM LECTURER



Harvey Feigenbaum, MD, FASE, will present the 23rd Annual Feigenbaum Lecture titled "History of Echocardiography: A Personal Perspective." as the 23rd Annual Feigenbaum Lecture. Dr. Feigenbaum, who founded ASE in 1975 and is widely recognized as the "Father of Echocardiography," is a Distinguished Professor at

the Indiana University School of Medicine and a cardiologist at Indiana University Health. He received his medical degree from Indiana University and following an internship at Philadelphia General Hospital, he returned to the Indiana University Medical Center to complete his residency. During his career, he has received awards from numerous professional organizations. Dr. Feigenbaum is a Past President of ASE and the founding editor of the *Journal of the American Society of Echocardiography*. He has trained and mentored numerous echocardiographers and cardiac sonographers during his career, written textbooks with multiple editions, and conducted research that has contributed to advancement and innovation in the field.

ImageGuideEcho REGISTRY INFORMATION SESSION

10:00 – 10:30 AM

ECHO EXPO

Overview and Question & Answer

Jordan Strom, MD, MSc, FASE

CHALK TALKS

10:00 – 10:45 AM | 3:30 – 4:15 PM

ECHO EXPO – CHALK TALK THEATER

12:30 – 1:15 PM

ROOM 204 LEVEL 2

During the morning break, **Mourad Senussi, MD**, will present What is the Volume Status of My Patient: How POCUS Can Help. The lunch Chalk Talk, From Twitter to Tenure: How to Effectively Use Social Media as an Echocardiographer with **Akhil Narang, MD, FASE**, will answer all your questions about how social media can help your career. During the afternoon break, pediatric experts **Lowell Frank, MD**, **Peter Koenig, MD, FASE**, **Dawn Park, BS, RDCS, RDMS, FASE**, and **Pierre Wong, MD**, will present Educating Fellows in the Art of Imaging.

VALUE SUMMIT: MAINTAINING VALUE IN THE ECHO LAB

11:00 AM – 12:30 PM

BALLROOM 6C LEVEL 6

Merri Bremer, EdD, RN, ACS, RDMS, FASE, and **Jordan Strom, MD, MSc, FASE**, will discuss the value and give an update on the ASE ImageGuideEcho Registry. **Susan Mayer, MD, FASE**, will present important information on the use of add-on codes for 3D and strain. **Keith Collins, MS, RDMS, FASE**, will share thoughts about sonographer shortages, satisfaction, and career growth, and rounding out the session, **Geoffrey Rose, MD, FASE**, will discuss quality in the echo lab and lessons learned from COVID.

SCIENCE & TECHNOLOGY THEATERS

12:45 – 1:45 PM

ECHO EXPO

THEATER 1

Becoming Visually Decisive in Echo

Presented by Bracco Diagnostics Inc.

Case studies demonstrating the utility of ultrasound enhancing agents with audience participation solving interesting cases.

THEATER 2

A Clearer Echo: Improve Your Lab Efficiency and Patient Outcomes

Presented by Lantheus

Join expert faculty for an interactive panel discussion on enhanced echocardiography. Learn about the important role that UEAs have on improving echo lab efficiency and their impact on patient management and outcomes. Moderated Q&A will conclude the session.

Lunch is provided by ASE, with support from Bracco and Lantheus, and is included in all Scientific Sessions registration fees. Space and food are first come, first served.

These sessions are not part of the official ASE 2022 Scientific Sessions as planned by the Program Committee or in any way endorsed by or affiliated with ASE.

MEET THE FACULTY NETWORKING RECEPTION

4:00 – 5:30 PM

ROOM 204 LEVEL 2

Hosted by the Emerging Echo Enthusiasts SIG, students, fellows, sonographers, and physicians who are early in their careers are invited to meet other members who are just beginning their careers, while networking with leaders in the field of echocardiography including ASE 2022 faculty. Complimentary beer, wine, and light hors d'oeuvres will be served.



ASE Foundation

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

2022 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 complimentary registration to the Scientific Sessions from the Foundation. 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 investigator in this group.

2022 INVESTIGATORS

- ✦ **Matthew Muller, BA**, Oregon Health and Sciences University, Portland, OR - **Alan S. Pearlman Research Awardee**
- ✦ **Rowa Attar, MD**, Methodist DeBakey Heart and Vascular Center, Houston, TX
- ✦ **Cheng Chen, PhD**, Center for Ultrasound Molecular Imaging and Therapeutics, University of Pittsburgh, Pittsburgh, PA
- ✦ **Juan Cotella, MD**, University of Chicago Medical Center, Chicago, IL
- ✦ **Alessandra Ferraro, MD**, Boston Children's Hospital, Brookline, MA
- ✦ **Cesar Gonzalez de Alba, MD**, Children's Hospital Colorado, University of Colorado, Aurora, CO
- ✦ **Yi Huang, MS**, Shenzhen Children's Hospital, Shenzhen, China
- ✦ **Stephan Juergensen, MD**, University of California San Francisco, San Francisco, CA
- ✦ **Uswa Khan, BS**, Piedmont Heart Institute, Atlanta, GA
- ✦ **Linda Lee, MD**, University of Chicago Medical Center, Chicago, IL
- ✦ **Martha Moran, MD**, Stollery Children Hospital, Edmonton, AB, Canada
- ✦ **Proscovia Mugaba, MBBCh**, University of Alberta, Edmonton, AB, Canada
- ✦ **Samana Mukhtar, MD**, University at Buffalo, Buffalo, NY
- ✦ **Rabia Noor, MD**, University of Mississippi Medical Center, Jackson, MS
- ✦ **Hean Patel, MD**, University of Chicago Medical Center, Chicago, IL

- ✦ **Jean Michel Saad, MD**, Houston Methodist DeBakey Heart and Vascular Center, Houston, TX
- ✦ **Jeremy Slivnick, MD**, University of Chicago Medical Center, Chicago, IL
- ✦ **Manasi Tannu, MD**, Duke University Medical Center, Durham, NC
- ✦ **Eric Tran, DO**, Scripps Mercy Hospital, San Diego, CA
- ✦ **Stephen Williams, MD**, Texas Children's Hospital | Baylor College of Medicine, Houston, TX

2022 TOMTEC INNOVATOR RESEARCH TRAVEL GRANT

Shawn Ahn, MS, MD, Yale University in New Haven, CT, is the recipient of the 2022 TOMTEC Innovator Research Travel Grant. Supported by a grant to the ASE Foundation from TOMTEC IMAGING SYSTEMS GMBH, this annual award of \$4,000 is given to assist a promising young researcher presenting their work at the ASE Scientific Sessions.

2022 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 limited travel support. Recipients were chosen from a large number of students who were nominated by their program directors. The 2022 scholarship award recipients will be recognized during ASE's Annual Awards Presentation and Edler Lecture on Saturday, June 11, in Ballroom 6E Level 6.

2022 WINNERS

- ✦ **Nicole Bochenek, RDCS**, Aurora St. Luke's Diagnostic Medical School of Sonography, Downers Grove, IL
- ✦ **Natanael Flecha**, Saint Francis Hospital and Medical Center, Woodstock, CT
- ✦ **Makanda Lieberenz**, Mayo Clinic School of Health Sciences, Tempe, AZ
- ✦ **Tory Long**, South Hills School of Business & Technology, Bigler, PA
- ✦ **Nicholas Medlock**, Duke University Hospital, Carrboro, NC
- ✦ **Taylor Moore**, Clemson University Cardiovascular Imaging Technology Program, Seneca, SC
- ✦ **Rebecca Sabourin, RDCS**, UWHC School of Diagnostic Medical Sonography, Madison, WI

- ✦ **Christopher Ryan Stuck**, University of Arkansas for Medical Sciences, North Little Rock, AR
- ✦ **Taedra Thrams**, Aurora St. Luke's Diagnostic Medical School of Sonography, Sullivan, WI

KATANICK SCHOLARSHIP AWARD

The 2022 Katanick Scholarship Award will be awarded to **Daisy Chang**, Duke University, Durham, NC. This award includes a \$1,000 student scholarship for the highest-ranking student sonographer candidate nominated for ASEF scholarship awards and up to \$500 in travel reimbursement to attend the ASE Scientific Sessions. This award was named to honor the legacy of Sandy Katanick, RN, RVT, CAE, who retired as CEO of the Intersocietal Accreditation Commission after over 25 years of service to the field.

2022 FEIGENBAUM CARDIOVASCULAR SONOGRAPHER STUDENT TRAVEL GRANT

This \$1,000 award is supported by a grant to the ASE Foundation from Elsevier Inc. to honor Dr. Harvey Feigenbaum's commitment and tenure as the former JASE Editor for 20 years. It is presented to a sonographer student enrolled in a CAAHEP accredited cardiac ultrasound program. This grant provides funding to assist a student to attend the Scientific Sessions or other ASE sponsored educational courses.

The 2022 student travel grant has been awarded to **Krishnakumari Patel**, Johns Hopkins University, Baltimore, MD. This award will be recognized during the Council on Cardiovascular Sonography Business Meeting, on Friday, June 10 at 5:30 PM in Ballroom 6B Level 6.

2022 COUNCIL TRAVEL GRANT AWARDS

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.

COUNCIL ON CARDIOVASCULAR SONOGRAPHY TRAVEL GRANT AWARDS

- ✦ **Elise Hawes, BAS, ACS, RDCS, FASE**, Henry Ford Allegiance Health, Albion, MI
- ✦ **Megan Schoessling, BS, RDCS**, Children's Hospital of Wisconsin, Glendale, WI

COUNCIL ON PEDIATRIC AND CONGENITAL HEART DISEASE TRAVEL GRANT AWARD

- ✦ **David Barris, MD**, Mount Sinai Hospital, Bronx, NY
- ✦ **Jennifer Klein, MD**, Children's National Hospital, Washington, DC

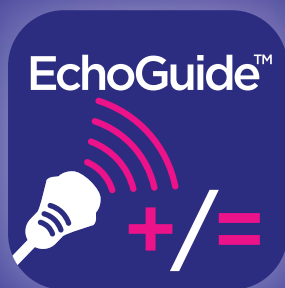
COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY TRAVEL GRANT AWARD RECIPIENTS

- ✦ **Ezeldeen Abuelkasem, MBBCh, MSc**, University of Pittsburgh Medical Center, Pittsburgh, PA
- ✦ **Antonia van Kampen, MD**, Massachusetts General Hospital, Cambridge, MA

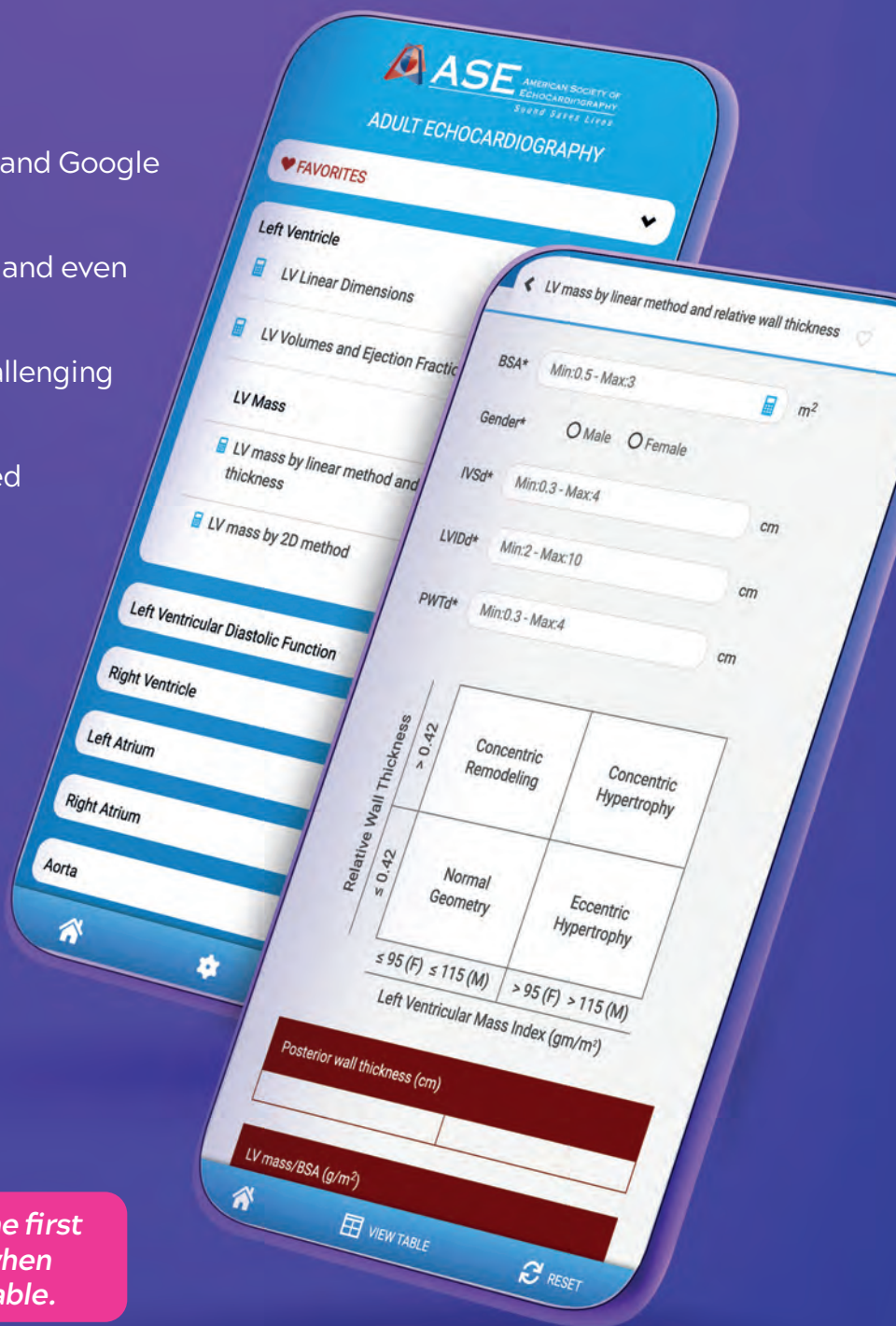
COMING SOON! THE NEW ASE GUIDELINE CALCULATOR AND ALGORITHM APP.

EchoGuide™

- FREE to download on the Apple and Google Play Stores.
- Works on smartphones, tablets, and even includes a web-based interface.
- Quick access to common and challenging echo measurements and values.
- Calculators and algorithms based on the most popular guidelines published by ASE.



Sign up to be the first to be notified when the app is available.



Thank you to Marcelo Miglioranza, MD, PhD, FASE, for providing the new name for the new app, EchoGuide™, determined by ASE member votes.

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 all of ASE's products at the following locations:

ASE Headquarters Booth #1721

Saturday, June 11 3:30 – 6:00 PM
 Sunday, June 12 9:00 AM – 2:45 PM
 Monday, June 13 10:00 AM – 4:00 PM

ASE Products Sales Booth – 6ABC Lobby

Friday, June 10 12:00 – 6:30 PM
 Saturday, June 11 6:00 AM – 6:15 PM
 Sunday, June 12 6:30 AM – 5:00 PM
 Monday, June 13 7:30 AM – 5:30 PM

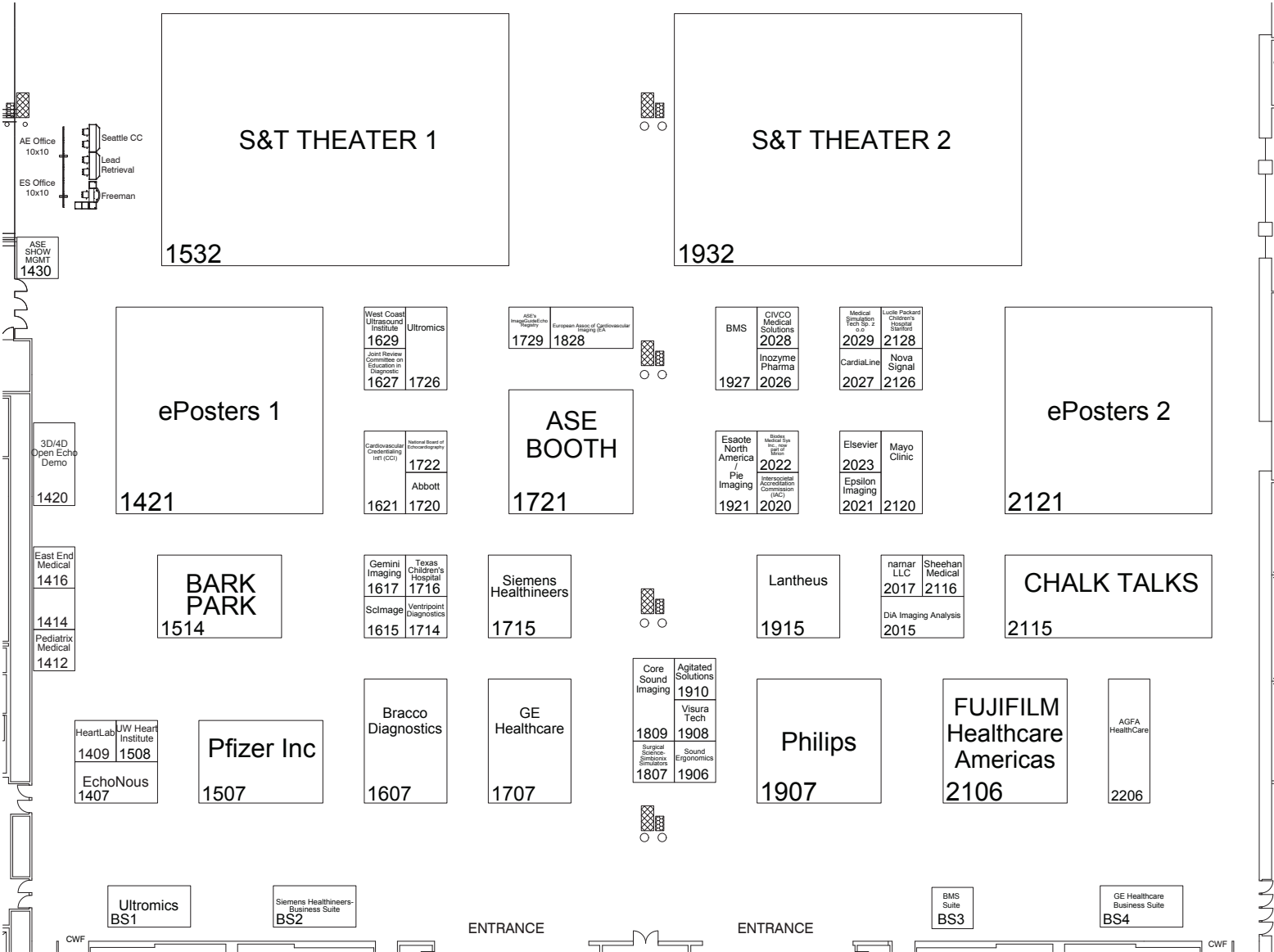
ASE products will also be for sale on Saturday during the President's Reception.



Also Order Products Online at ASELearningHub.org

ASE 33RD ANNUAL SCIENTIFIC SESSIONS ECHO EXPO SEATTLE CONVENTION CENTER - LEVEL 4

EXHIBITS



S&T THEATER 1
1532

S&T THEATER 2
1932

ePosters 1
1421

West Coast
Ultrasound
Institute
1629
Ultromics
Joint Review
Committee on
Education in
Diagnostic
1627 1726

ASE
Imaging
Europe
1729
European Assoc. of Cardiovascular
Imaging (EACVI)
1828

BMS
1927
CIVCO
Medical
Solutions
2028
Inozyme
Pharma
2026

Medical
Simulation
Tech Sp. 2
0.0
2029
Lucile Packard
Children's
Hospital
Stanford
2128
CardiaLine
2027
Nova
Signal
2126

ePosters 2
2121

3D/4D
Open Echo
Demo
1420

Cardiovascular
Conducting
Tissue (CCI)
1621
National Board of
Inventors
1722
Abbott
1720

ASE
BOOTH
1721

Essote
North
America
Pie
Imaging
1921
Society
Medical
Imaging
2022
International
Accreditation
Commission
(IAC)
2020

Elsevier
2023
Epsilon
Imaging
2021
Mayo
Clinic
2120

East End
Medical
1416
1414
Pediatric
Medical
1412

BARK
PARK
1514

Gemini
Imaging
1617
Texas
Children's
Hospital
1716
ScImage
1615
Ventripoint
Diagnostics
1714

Siemens
Healthineers
1715

Lantheus
1915

namar
LLC
2017
Sheehan
Medical
2116
DIA Imaging Analysis
2015

CHALK TALKS
2115

HeartLab
1409
JW Heart
Institute
1508
EchoNous
1407

Pfizer Inc
1507

Bracco
Diagnostics
1607

GE
Healthcare
1707

Core
Sound
Imaging
1809
Agitated
Solutions
1910
Visura
Tech
1908
Surgical
Seahawk
Simmons
Simulation
1807
Sound
Ergonomics
1906

Philips
1907

FUJIFILM
Healthcare
Americas
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HealthCare
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Ultromics
BS1

Siemens Healthineers-
Business Suite
BS2

ENTRANCE

ENTRANCE

BMS
Suite
BS3

GE Healthcare
Business Suite
BS4

CWF

CWF

ECHO EXPO HOURS

SATURDAY, JUNE 11.....3:30 – 6:15 PM
President's Reception4:00 – 6:00 PM

SUNDAY, JUNE 12..... 9:00 AM – 2:45 PM

MONDAY, JUNE 13...10:00 AM – 4:00 PM

ECHO EXPO BREAK SCHEDULE

SUNDAY, JUNE 12

Coffee Breaks 9:00 – 9:30 AM
2:00 – 2:30 PM

Lunch Break* 11:00 AM – 1:00 PM

MONDAY, JUNE 13

Coffee Breaks 10:00 – 10:30 AM
3:30 – 4:00 PM

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 ECHO EXPO

NEW THIS YEAR: 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 11

4:30 PM – **THEATER 1**
 5:15 PM **IMAGING THE HEART: ECHOCARDIOGRAPHIC APPROACHES FOR HCM**
Presented by Bristol Myers Squibb

SUNDAY, JUNE 12

9:00 AM – **THEATER 1**
 9:45 AM **OPTIMIZING IMAGING IN THE MITRACLIP™ PROCEDURE TO TREAT COMPLEX MITRAL VALVE ANATOMIES: A CASE BASED DISCUSSION**
Presented by Abbott

THEATER 2
UTILIZING IMAGING APPROACHES TO IDENTIFY PATIENTS WITH TRANSTHYRETIN AMYLOID CARDIOMYOPATHY (ATTR-CM) FOR APPROPRIATE TREATMENT
Presented by Pfizer

11:15 AM – **THEATER 1**
 12:15 PM **ADVANCED CONTRAST ECHO FOR ISCHEMIC HEART DISEASE**
Presented by GE Healthcare

THEATER 2
NOVEL APPROACH TO 3D USE IN ROUTINE AND INTERVENTIONAL ECHOCARDIOGRAPHY EXAMS
Presented by Philips

2:00 PM – **THEATER 1**
 2:45 PM **AI: REVOLUTIONIZING THE DIAGNOSIS OF HEART DISEASE IN ECHOCARDIOGRAPHY**
Presented by Ultramics

MONDAY, JUNE 13

12:45 PM – **THEATER 1**
 1:45 PM **BECOMING VISUALLY DECISIVE IN ECHO**
Presented by Bracco Diagnostics Inc.

THEATER 2
A CLEARER ECHO: IMPROVE YOUR LAB EFFICIENCY AND PATIENT OUTCOMES
Presented by Lantheus

These sessions are not part of the official ASE 2022 Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE.

WHERE INNOVATION AND SCIENCE MEET

Don't miss the Echo Expo on Level 4 of the Seattle Convention Center. The exchange of information and access to new concepts, technology, devices, and research is a vital component of your professional development. Get 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 Sunday and Monday.

ASE HEADQUARTERS BOOTH #1721

As the largest organization representing the cardiovascular ultrasound community, ASE is a vibrant and progressive organization. Visit the ASE Headquarters booth #1721 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 FASE

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 #1721 to talk one-on-one with a member of the FASE Advisory Group or ASE staff about any questions you have about achieving the FASE designation.

ACTIVITIES IN THE ASE BOOTH

SATURDAY, JUNE 11

4:30 – 5:00 PM

Meet ASE President Raymond Stainback, MD, FASE

4:30 – 5:30 PM

ASE Tweet Up

SUNDAY, JUNE 12

9:00 - 9:30 AM

Face to FASE – Learn How to Achieve the FASE Designation
Meet FASE Advisory Committee Chair, **Jennifer Warmbecker, BS, RDCS, FASE**

9:00 – 9:30 AM

Learn About the Committee on Accreditation for Advanced Cardiovascular Sonography (CoA-ACS)
Michelle Bierig, PhD, ACS, RCS, RDCS, FASE

11:00 – 12:00 PM

Learn About the Committee on Accreditation for Advanced Cardiovascular Sonography (CoA-ACS)
Joy Guthrie, PhD, ACS, RDMS, RDCS, RVT, FASE

1:30 – 2:00 PM

Learn About ASE's Leadership Academy
Vera Rigolin, MD, FASE

2:00 – 2:30 PM

Learn About the Committee on Accreditation for Advanced Cardiovascular Sonography (CoA-ACS)
Michelle Bierig, PhD, ACS, RCS, RDCS, FASE

2:00 – 2:30 PM

Special Book Signing Event for ASE's Latest Textbooks
Roberto Lang, MD, FASE; Steven Goldstein, MD, FASE; Bijoy Khandheria, MD, FASE; Muhamed Saric, MD, PhD, FASE; Thomas Marwick, MBBS, PhD, MPH, MD; and Theodore Abraham, MD, FASE

MONDAY, JUNE 13

10:00 – 10:30 AM

Learn About ASE's Committees and How to Apply
Suzanne Morris, Director of Volunteer Activities

10:00 – 10:30 AM

Face to FASE – Learn How to Achieve the FASE Designation
Meet FASE Advisory Committee Chair, **Jennifer Warmbecker, BS, RDCS, FASE, FASE**

10:00 – 10:30 AM

Learn About the Committee on Accreditation for Advanced Cardiovascular Sonography (CoA-ACS)
Matt Umland, ACS, RDCS, FASE

1:30 – 2:00 PM

ECHO Magazine, Now a Monthly Publication - Learn How You Can Submit an Article
Benjamin Eidem, MD, FASE, Echo Magazine Review Task Force Co-Chair

1:30 – 2:00 PM

Learn About Submitting or Reviewing for CASE, ASE's Case Reports Journal.
Meet CASE Editor-in-Chief, **Vincent Sorrell, MD, FASE, FACP (honorary), FACC, FSCCT, FSCMR**

3:30 PM

Drawing for the Passport Prizes and Announcement of the ASE Foundation Cardiovascular Challenge Winners

NEW THIS YEAR! PASSPORT TO DISCOVERY: A FUN INTERACTIVE GAME WITH EXHIBITORS

Join in the fun by participating in the ASE 2022 Passport adventure! You should have received an official ASE 2022 Passport when you picked up your registration packet. Once you have your passport, venture around the Echo Expo visiting participating exhibitor's booths and collecting your stamp from each destination. Once you complete your Passport, come to the ASE Booth #1721 to fill out a raffle ticket to be entered to win the following prizes. All tickets must be entered no later than 3:15 PM, Monday, June 13, and you need to be present to win.

Grand prize package includes:

- Complimentary full meeting registration for 2023 ASE Scientific Sessions
- 2023 ASE membership through December 31, 2023
- Hotel accommodations during 2023 ASE Scientific Sessions
 - ✦ Prize is transferable, but all elements of the prize must be utilized by the same individual.
 - ✦ VALUE OVER \$1550!

Second Prize:

- \$500.00 USD towards any ASE Conference Registration (Echo Hawaii, SOTA, Scientific Sessions, Echo Florida)
- A copy of ASE's Comprehensive Echo Textbook 3rd Edition
 - ✦ VALUE OVER \$750!

Third Prize:

- \$350 USD credit towards ASE's Learning Hub store

BARK PARK

Spend some time relaxing and socializing with dogs in ASE's Bark Park in the Echo Expo. This experience is provided in partnership with Ginger's Pet Rescue, a Seattle non-profit organization that specializes in saving death row dogs. 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 Bark Park will be open during the following hours:

SUNDAY, JUNE 12

11:00 AM – 1:00 PM

2:00 – 2:30 PM

MONDAY, JUNE 13

12:30 – 2:00 PM

New This Year: Passport to Discovery in the ECHO EXPO!

Venture around the Echo Expo visiting participating exhibitor's booths and collecting your stamp from each destination. Once you complete your Passport, come to the ASE Booth #1721 to fill out a raffle ticket to be entered to win the following prizes. All tickets must be entered no later than 3:15 PM, Monday, June 13, and you need to be present to win. The prize winners will be revealed at 3:45 PM on Monday, June 13.

Grand Prize Package:

- Complimentary full meeting registration for 2023 ASE Scientific Sessions
- ASE membership through December 31, 2023
- Hotel accommodations during 2023 ASE Scientific Sessions

Prize is transferable, but all elements of the prize must be utilized by the same individual.

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Second Prize:

- \$500.00 USD towards any ASE Conference Registration (Echo Hawaii, SOTA, Scientific Sessions, Echo Florida)
- A copy of ASE's Comprehensive Echo Textbook 3rd Edition
 - ✦ VALUE OVER \$750!

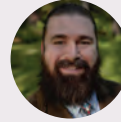
Third Prize:

- \$350 USD credit towards ASE's Learning Hub store



Sponsored by BMS

Speaker:



Michael Trump, RCS
Structural Heart Lead | Cardiac Sonographer II
University of Alabama at Birmingham (UAB)
Birmingham, Alabama

Speaker has been compensated for their time



Imaging the Heart: Echocardiographic Approaches for HCM

Join us for a Science and Technology Theater

Theater #1

Saturday, June 11 | 4:30 PM - 5:15 PM PST

Join us for a review of echocardiography imaging, including considerations for obstructive hypertrophic cardiomyopathy (oHCM) and evaluations of left ventricular hypertrophy, ejection fraction, and outflow tract obstruction as components of patient assessment



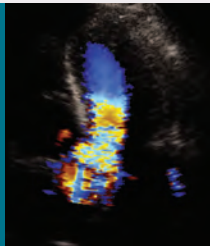
Learn more about HCM

This session is not part of the official ASE 33rd Annual 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.

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32nd
ANNUAL



January 16–20, 2023

The Westin Hapuna Beach Resort
Kohala Coast, Big Island, HI



Course Director
James D. Thomas,
MD, FASE
Past President, ASE

ECHO
HAWAII



Course Co-Director
Jonathan R.
Lindner, MD, FASE
Past President, ASE

#EchoHawaii

“The faculty at this conference were awesome. Every one of them were very approachable and the discussions held ‘off line’ were a significant source of education.” Echo Hawaii Attendee

Learn More at ASEcho.org/EchoHawaii



Jointly provided by the American Society of Echocardiography and the ASE Foundation, and held in cooperation with the Canadian Society of Echocardiography.

Optimizing Imaging in the MitraClip™ Procedure to Treat Complex Mitral Valve Anatomies

A Case Based Discussion

Sunday, June 12, 2022 | 9:00 AM – 9:45 AM PST



Richard Bae, MD



Nadira Hamid, MD



Akhil Narang, MD

This session is not part of the official ASE 33rd Annual 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.

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Utilizing Imaging Approaches to Identify Patients With Transthyretin Amyloid Cardiomyopathy (ATTR-CM) for Appropriate Treatment



Sunday, June 12, 2022

9:00 AM - 9:45 AM



Roxana Ghashghaei, MD

Assistant Professor in the Division
of Cardiology at the University of
California, Irvine



Dermot M Phelan, MD, PhD, FASE, FACC

Medical Director, Cardiovascular Imaging
Director, Sports Cardiology Program
Co-Director, Hypertrophic Cardiomyopathy Program
Atrium Health

Science & Technology | Theater #2 Exhibit Hall Floor

This session is not part of the official ASE 33rd Annual 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.

Advanced Contrast Echo for Ischemic Heart Disease

FREE CONTINUING EDUCATION LUNCH SYMPOSIUM

Sunday, June 12, 2022

11:15 AM – 12:15 PM

Science & Technology Theater: #1

Seattle Convention Center

Seattle, Washington



Myocardial Perfusion Imaging at Rest and During Stress in Chronic and Acute Ischemic Syndromes

Jonathan R. Lindner, MD, FACC, FASE

Oregon Health & Science University, Portland, Oregon

New Roles for Contrast Echo in Coronary Artery Disease (CAD): Molecular Imaging and Therapy

James D. Thomas, MD, FACC, FASE, FESC

Northwestern Medicine Bluhm Cardiovascular Institute, Chicago, Illinois



Educational Objectives

- Apply myocardial contrast echocardiography (MCE) at rest to improve and expedite care in acute coronary syndromes
- Identify reasons to use stress perfusion imaging for improving diagnosis of CAD and microvascular dysfunction
- Discuss the future role of echo molecular imaging for ischemia, and the potential for improving outcomes through ultrasound cavitation therapy

Register at www.Contrast-Echo.com

Approved by Medical Education Resources for 1 AMA PRA Category 1 Credit™ for physicians and 1 ANCC Contact Hour for nurses.

Approved by the Society of Diagnostic Medical Sonography (SDMS) for 1.0 SDMS CME Credit.

This activity is jointly provided by:



and



This activity is supported by an educational grant from GE Healthcare.

This session is not part of the official ASE 33rd Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed by or affiliated with ASE.

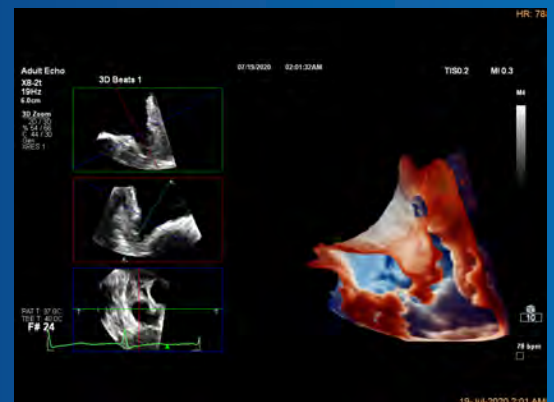
**PHILIPS**

Join us for a Science & Technology Theater event

Novel approach to 3D use in routine and interventional echocardiography exams

Join leading imagers, researchers, and professors in exploring new and emerging 3D echocardiography solutions designed to strengthen clinical confidence, build efficiency through the care pathway, and improve cardiac care experiences.

Sunday June 12
11:15 am – 12:15 pm
Theater #2
Exhibit & Poster Hall



This session is not part of the official ASE 33rd Annual 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.

AI: Revolutionizing the diagnosis of heart disease in echocardiography

Sunday, June 12, 2:00pm
Science & Technology Theater #1



Dr. Ross Upton
CEO and Founder
at Ultrasonics



Dr. Patricia A. Pellikka
Vice Chair, Department of
Cardiovascular Medicine
at Mayo Clinic



Dr. Federico M. Asch
Director of the Echo Core Lab
at MedStar Health Research
Institute

35th ANNUAL



February 18–20, 2023

Optional Preconference Learning Lab
February 17–18

The Westin Kierland Resort & Spa
Scottsdale, AZ



Course Director
William A. Zoghbi, MD, FASE
Past President, ASE



Course Co-Director
Sunil V. Mankad, MD, FASE

State-of-the-Art ECHOCARDIOGRAPHY™



#EchoSOTA

“I loved every minute of this conference! I also enjoyed the structure, as it was cohesive with each segment.”
— State-of-the-Art
Echocardiography Attendee

Learn More at ASEcho.org/SOTA



Jointly provided by the American Society of Echocardiography and the ASE Foundation.

Join Live Presentation
Monday, June 13, 2022 | 12:45 – 1:45 PM
at
Science & Technology Theater

“Becoming Visually Decisive in Echo”

Case studies demonstrating the utility of ultrasound enhancing agents
with audience participation solving interesting cases

GUEST MODERATOR
Jordan B. Strom, MD, MSc, FACC, FASE

Associate Director, Echocardiography Laboratory,
Director of Echocardiographic Research, Division of Cardiovascular Medicine,
Beth Israel Deaconess Medical Center

Section Head, Cardiovascular Imaging Research,
Richard A. and Susan F. Smith Center for Outcomes Research
in Cardiology, Beth Israel Deaconess Medical Center

Assistant Professor of Medicine, Harvard Medical School

Please visit Bracco Booth #1607 at ASE 2022

This session is not part of the official ASE 33rd Annual 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.

All images shown are representative images from referenced studies. Individual results may vary. The individuals who appear in the background image are for illustrative purposes. All persons or animations depicted are models and not real healthcare professionals.

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Lantheus invites you to a

LUNCH SYMPOSIUM

A Clearer Echo: Improve Your Lab Efficiency and Patient Outcomes

Join expert faculty for an interactive panel discussion on enhanced echocardiography. Learn about the important role that UEAs have on improving echo lab efficiency and their impact on patient management and outcomes. Moderated Q&A will conclude the session.

Monday, June 13, 2022
12:45 pm – 1:45 pm (PT)

Science and Technology Theater
Seattle Convention Center

Speakers:



Paul Bhella, MD
FAHA, FACC, FASE
Baylor Heart and Vascular Hospital
Dallas, TX



Martin Goldman, MD
Icahn School of Medicine
at Mount Sinai
New York, NY

This session is not part of the official ASE 33rd Annual 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.

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EXHIBITOR LOCATION LISTED ALPHABETICALLY

Company	Booth
3D/4D Open Echo Interoperability	1420
Abbott	1720
AGFA HealthCare	2206
Agitated Solutions, Inc.	1910
American Society of Echocardiography (ASE)	1721
ASE's ImageGuideEcho Registry	1729
Bark Park	1514
Biodex Medical Systems, Inc., now part of Mirion	2022
Bracco Diagnostics	1607
Bristol Myers Squibb	1927
CardiaLine	2027
Cardiovascular Credentialing International (CCI)	1621
CIVCO Medical Solutions	2028
Core Sound Imaging	1809
DiA Imaging Analysis	2015
East End Medical	1416
EchoNous	1407
Elsevier	2023
Epsilon Imaging	2021
Esaote North America / Pie Imaging	1921
European Association of Cardiovascular Imaging (EACVI)	1828
FUJIFILM Healthcare Americas Corporation	2106
GE Healthcare	1707
Gemini Imaging Group	1617

Company	Booth
HeartLab Limited	1409
Inozyme Pharma	2026
Intersocietal Accreditation Commission (IAC)	2020
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3D/4D Open Echo Interoperability 1420

2530 Meridian Parkway, Suite 450
Durham, NC 27713
United States
Phone: 919-297-7183

Email: SBBdoyan@ASEcho.org

ASE has partnered with echo companies to facilitate 3D/4D data connections and integrations across vendors. Join these vendors, alongside leaders from ASE, for a public demonstration of interoperable 3D/4D data and see how we are working together to provide seamless access. Demonstrations will take place Sunday, June 12, 12:15 – 1:00 PM and Monday, June 13, 10:00 – 11:00 AM.



Abbott 1720

3200 Lakeside Drive
Santa Clara, California 95054
United States
Phone: 408-845-3000

StructuralHeart.Abbott

Abbott is a global healthcare leader that helps people live more fully at all stages of life. Our life-changing technologies span the spectrum of healthcare in diagnostics, medical devices, nutritionals and branded generic medicines. Our 109,000 colleagues serve people in more than 160 countries.



AGFA HealthCare 2206

10 S Academy Street
Greenville, SC 29601
United States
Phone: 978-284-7900 x8542203

AGFAHealthCare.com

Agfa HealthCare's Enterprise Imaging for Cardiology delivers a unified imaging ecosystem that speeds up image acquisition and retrieval and enhances the delivery of care. Across specialties and modalities, it improves the cardiologist's work experience, by offering across all cardiology departments -Ultrasound, Cathlab, ECG, Nuclear Cardiology and MR&CT- web-based image viewing and access, advanced analysis applications, structured reporting, flexible workflows and collaboration tools in ONE single workspace. At Agfa HealthCare, we support healthcare professionals across the globe to transform the delivery of care. Our focus is on providing Imaging IT software solutions that enable secure, effective and sustainable imaging data management.

Agitated Solutions, Inc..... 1910

3510 Hopkins Place N.
Building 4
Oakdale, MN 55128
United States
Phone: 281-382-0523

AgitatedSolutions.com

Agitated Solutions, Inc. is a company dedicated to providing tools to advance medical imaging. ASI develops the Orbis™ device, a novel, enhanced micro-bubble generator that is designed to improve bubble study efficiency and improve image quality.



American Society of Echocardiography (ASE) 1721

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 1729

2530 Meridian Parkway, Suite 450
 Durham, NC 27713
 United States
 Phone: 919-297-7174

ImageGuideEcho.org

ASE's ImageGuideEcho Registry provides quality improvement for you, your Institution and the field of echocardiography. 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 in the registry to conduct innovative research.

**Biodex Medical Systems, Inc.,
 now part of Mirion 2022**

20 Ramsay Road
 Shirley, NY 11967
 United States
 Phone: 631-924-9000

Biodex.com

Biodex™ high-performance ultrasound tables are designed to meet the needs of today's sonographer, with options to suit your budget. Intuitive and ergonomic, our tables aid in image clarity, efficiency and staff comfort during ultrasound, echocardiography and vascular procedures – so you capture the clearest image, every time.



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 Monroe Twp., NJ 08610
 Phone: 609-514-2343

Braccolmaging.com/us-en

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 complimented by a range of medical devices and advanced administration systems.

Bristol Myers Squib 1927

430 E. 29th Street
 14th Floor
 New York NY 10016
 United States
 Phone: 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, fibrosis and neuroscience. Our employees work every day to transform patients' lives through science.

CardiaLine 2027

1611 S. Utica Avenue #344
 Tulsa, OK 74104
 United States
 Phone: 844-366-1195

Ergoline.com

CardiaLine offers stress echocardiography beds, treadmills and ergometers. We specialize in ergonomic echo beds that are perfect for routine echocardiography and stress echocardiography.

**Cardiovascular Credentialing
 International (CCI) 1621**

P.O. Box 30939
 Raleigh, NC 27622
 United States
 Phone: 919-861-4539

CCI-Online.org

Wholehearted Validation. For over 50 years, CCI has been the only credentialing body focused on credentialing those who work specifically with the heart and vascular systems. CCI continues to improve the quality of patient care through the wholehearted support of the education and career ambitions of our credential holders.

EXHIBITOR DESCRIPTIONS



CIVCO Medical Solutions..... 2028

2301 Jones Boulevard
Coralville, IA 52241
United States
Phone: 319-248-6757

CIVCO.com

CIVCO Medical Solutions works to make image-guided procedures safer. CIVCO manufactures accessories and equipment for use in diagnostic and therapeutic imaging and interventional procedures, with a strong focus on ultrasound. CIVCO specializes in ultrasound viral barriers, including 100% gel-free Envision probe covers and scanning pads; ASTRA high-level disinfection systems for ultrasound transducers; Verza and Ultra-Pro needle guidance systems; and electromagnetic needle tracking. Visit CIVCO.com to learn more.

Core Sound Imaging..... 1809

5510 Six Forks Road
Raleigh, NC 27609
United States
Phone: 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. View diagnostic-quality images and loops, quickly generate findings, digitally sign reports from any Internet-connected device. Then, securely share with colleagues/patients, route them to your EMR, archive them in the cloud.



DiA Imaging Analysis..... 2015

HaEnergia 77
Beer Sheva, HaDa 84102
Israel
Phone: 972-54-901-1134

DiA-Analysis.com

DiA Imaging Analysis is a leading provider of AI-based cardiac ultrasound software, serving thousands of users worldwide. DiA's LVivo automated software easily integrates with POCUS devices or Echo lab PACS viewers, analyzing every echo study 'behind-the-scenes' and generating key measurements like Strain, EF and RV with increased speed, efficiency and accuracy.

East End Medical 1416

10320 USA Today Way
Miramar, FL 33025
United States
Phone: 954-507-7887

SafeCrossDevice.com

The SafeCross™ Transseptal RF Puncture and Steerable Balloon Introducer System. SafeCross™ is an all-in-one transeptal device featuring a compliant, atraumatic radiopaque and echogenic Positioning Balloon, intended to facilitate the accurate positioning and stability of the Steerable Introducer Sheath/RF Puncture Dilator assembly on the fossa ovalis prior and during transeptal puncturing.

EchoNous 1407

8310 154th Ave NE
Suite 200
Redmond, WA 98052
United States
Phone: 206-445-9125

KosmosPlatform.com

Elsevier 2023

1600 JFK Boulevard
Suite 1600
Philadelphia, PA 19103
United States
Phone: 215-239-3722

US.ElsevierHealth.com

Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, and deliver better care.

Epsilon Imaging 2021

3330 Jackson Plaza, Suite 100
Ann Arbor, MI 48103
United States
Phone: 513-235-0039

Epsilon-Imaging.com

Epsilon Imaging is transforming diagnostic workflow in echocardiography with Echolnsight, a vendor neutral, zero footprint software platform with strain imaging. Echolnsight makes it easy to incorporate strain imaging into clinical practice with its suite of applications designed specifically for managing a wide variety of indications across your echo program.

Esaote North America/Pie Imaging 1921

11907 Exit Five Parkway
Fishers, IN 46037
United States
Phone: 219-629-5566

EsaoteUSA.com

Esaote North America (a subsidiary of Esaote S.p.A.) is an Italian medical device company that provides a wide range of imaging solutions including Ultrasound and Healthcare IT. Esaote's headquarters are in Genoa, Italy with an international presence in 80 countries. Pie Medical, an Esaote company, develops software solutions for interventional cardiology, vascular surgery, and radiology for image analysis with intuitive workflows for improved outcomes. Esaote North America's robust and scalable ultrasound portfolio is equipped to help address a wide range of imaging needs across clinical applications.

European Association of Cardiovascular Imaging (EACVI) 1828

2035 Route des Colles
Sophia Antipolis, 06903
France
Phone: +0033498972480

ESCardio.org/EACVI

The EACVI, a registered branch of the ESC, is the world-leading network of CVI experts, welcoming over 8,000 CVI professionals including cardiologists, sonographers, nurses, basic scientists and allied professionals. The EACVI is a unified community gathering four imaging modalities under one entity (Echo, CMR, Nuclear & CT). The association is committed to maintaining high standards of professional excellence.



FUJIFILM Healthcare Americas Corporation 2106

81 Hartwell Avenue
Lexington, MA 02421
United States
Phone: 203-858-5772



GE Healthcare 1707

500 W. Monroe
Chicago, IL 60661
United States
Phone: 331-255-7264

GE.com

As a leading global medical technology, pharmaceutical diagnostics and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience, the company operates at the center of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world.

Gemini Imaging Group 1617

1745 Shea Center Dr.Parkway
Suite 400
Highlands Ranch, CO 80129
United States
Phone: 720-344-4867

GeminImaging.net

Gemini Imaging Group offers a licensing system. This concept will save you years off of your learning curve as a new or existing entrepreneur. Presenting you as a seasoned ultrasound business owner on your first day you hang out your shingle.

HeartLab Limited 1409

238 Khyber Pass Pass Road
Grafton, Auckland 1023
New Zealand
HeartLab.com

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Inozyme Pharma 2026

321 Summer Street
Suite 400
Boston, MA 02210
United States
Phone: 717-587-0845

Inozyme.com

Inozyme Pharma is a rare disease biopharmaceutical company developing novel therapeutics for the treatment of diseases of abnormal mineralization impacting the vasculature, soft tissue and skeleton.



Intersocietal Accreditation Commission (IAC) 2020

6021 University Boulevard
Suite 500
Ellicott City, MD 21043
United States
Phone: 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 such as special topic webinars, a CE finder and the IAC Quality Improvement (QI) Self-Assessment Tool. Facilities use the QI Tool to assess case studies and final reports, receive a quantitative report targeting opportunities for continuous process improvement, and to satisfy the MIPS Improvement Activity and MOC. Explore how your facility can join the more than 14,000 facilities that have achieved the true mark of excellence in patient care by earning IAC accreditation.

Joint Review Committee on Education in Diagnostic 1627

6021 University Boulevard
Suite 500
Ellicott City, MD 21043
United States
Phone: 443-973-3251

JRCDS.org

The Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS) makes accreditation recommendations for diagnostic medical sonography (DMS) 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 Standards and Guidelines specific to DMS.



Lantheus 1915

331 Treble Cove Road
North Billerica, MA 01862
United States
Phone: 800-362-2668

Lantheus.com

Lantheus is an established leader and fully integrated provider committed to innovative imaging diagnostics, targeted therapeutics, and artificial intelligence solutions to Find Fight and Follow® serious medical conditions. For more information, please visit **Lantheus.com**.

Lucile Packard Children's Hospital Stanford.. 2128

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Phone: 650-497-9383

Careers.StanfordChildrens.org

Mayo Clinic 2120

200 First Street SW
Rochester, MN 55902
United States
Phone: 507-273-4253

CVEducation.mayo.edu

Mayo Clinic Cardiovascular CME provides a variety of in-person and online learning opportunities designed and taught by Mayo Clinic experts. With destination and online CME courses, board reviews, podcasts, free video center, and our all-new mobile app, it's easier than ever to seamlessly integrate cardiology education into your busy schedule.

Medical Simulation Technologies 2029

Miechowska 5B/4, Krakow 30-055
Poland
Phone: +48 12 298 76 61

MSTech.eu

We are an advanced medical technologies company introducing to the market an innovative simulation system for cardiac examination and micro-invasive heart procedures based on datasets from real patients. MST is already present with its products on 4 continents and is constantly working on the best simulation solutions for cardiologists.

narnar LLC 2017

13424 Auburn Court
 Lake Oswego, OR 97035
 United States
 Phone: 503-442-9273
narnar.co

Software for contrast enhanced ultrasound.



National Board of Echocardiography 1722

3739 National Drive
 Suite 202
 Raleigh, NC 27622
 United States
 Phone: 919-861-5582

EchoBoards.org

The National Board of Echocardiography, Inc. is a physician, volunteer-led not-for-profit corporation. Established in 1996 to develop and administer examinations in the field of Clinical Echocardiography. A board certification process has been developed to publicly recognize Diplomates of the National Board of Echocardiography. The following examinations are administered by the NBE: ASCeXAM, ReASCE, Advanced PTEeXAM, ReAPTE, BPTeXAM, ReBasic PTE and CCEeXAM. Visit our booth for a chance to win an exam!

Nova Signal 2126

2440 S Sepulveda Boulevard
 Los Angeles, CA 90064
 United States
 Phone: 415-271-8358

NovaSignal.com

NovaSignal is a medical technology and data company that is revolutionizing transcranial Doppler ultrasound through the application of robotics, artificial intelligence, and cloud computing.

Pediatrix Medical Group 1412

1301 Concord Terrace
 Sunrise, FL 33323
 United States
 Phone: 854-643-1937
Pediatrix.com

Our network of Pediatrix pediatric cardiologists provides comprehensive pediatric cardiology care to a broad range of patients, including unborn babies, newborns, children and adolescents.



Pfizer Inc 1507

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 Cambridge, MA 02141
 United States
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USA.Philips.Com/Healthcare

At Philips, we partner with you to unlock the benefits of connecting data, technologies and people. We are driven to cut through complexity to help provide safe and effective care across the care continuum so your patients can receive the right care, in the right place, at the right time. Visit us at **Booth 1907** to experience the powerful Philips ecosystem to help you realize your vision for delivering better heart care with greater efficiency.

EXHIBITOR DESCRIPTIONS

Scimage, Inc. 1615

4916 El Camino Real
Suite 200
Los Altos, CA 94022
United States
Phone: 650-694-4858

Scimage.com

PICOM365 is an intelligent, scalable, Cloud-centric platform that provides end-to-end diagnostic workflow for all imaging exams across the enterprise. Built-in customizable structured report templates for all Cardiology disciplines with automatic measurement capture, auto-population from flat files, and data parsing with database and report insertion. Access your Echocardiology workflow anytime, anywhere.

Sheehan Medical LLC..... 2116

7835 85th Place SE
Mercer Island, WA 98040
United States
Phone: 206-498-0776

Sheehan-Medical.com

What you've all been wishing for is available at Sheehan Medical: You can now load your own patient images into the TEE simulator! Bring a case to booth 2116 for a live demo (contact us at sheehan-medical.com for full instructions). Real Ultrasound™ is a unique line of echo and TEE simulators that display real patient images, in real-time, for a realistic scanning experience. The simulators provide trainees with feedback on their skill immediately after every image acquisition. Trainees progress self paced, saving faculty time for advanced coaching.

Sound Ergonomics, LLC 1906

6930 NE Bothell Way
Kenmore, WA 98028
United States
Phone: 206-940-7542

SoundErgonomics.com

Sound Ergonomics, LLC provides consulting services and ergonomic products for the prevention of occupational musculoskeletal disorders in ultrasound professionals. Our services include educational programs, worksite evaluations, accreditation compliance programs and the Sound Work Environments™ program. Our products include ergonomic chairs, arm support devices and a line of exam tables.

Surgical Science - Symbionix Simulators..... 1807

23500 Mercantile
Suite F
Beachwood, OH 44122
United States
Phone: +972 3 9114416

SurgicalScience.com

Texas Children's Hospital..... 1716

6621 Fannin Street
Houston, TX 77030
United States
Phone: 832-824-2143

TexasChildrens.org



Siemens Healthineers 1715

40 Liberty Blvd
Malvern, PA 19355
United States
Phone: 610-209-1851

Siemens-Healthineers.com

We pioneer breakthroughs in healthcare. For everyone. Everywhere. The innovative solutions offered by Siemens Healthineers are crucial for clinical decision-making and treatment pathways. With a team of 66,000 dedicated employees across more than 70 countries, passionately pushing the boundaries of possibilities in healthcare while helping improve people's lives globally.

Ultromics 1726

625 Bedford Drive
Richardson, TX 75080
United States
972-768-7138

Ultromics.com

Ultromics' AI-powered platform, EchoGo, is revolutionizing echocardiography. Proven to predict patient outcomes, this groundbreaking solution automates complex analysis through a secure cloud connection. With unprecedented accuracy and zero variability, Ultromics empowers providers with superior heart disease detection and risk stratification. Visit Ultromics at booth 1726.

UW Medicine Heart Institute 1508

University of Washington Medicine
 1959 NE Pacific Street
 Seattle, WA 98195
 United States
 Phone: 206-543-4535

UWMedicine.org/heart

UW Medicine’s Heart Institute is at the forefront of cardiac imaging research, education and clinical practice. Our team provides comprehensive echocardiography, CT/MRI and stress test services, utilizing the latest technology. We are committed to performing quality exams and proud to serve patients at 6 locations across the Puget Sound region.

Visura Technologies..... 1908

3510 Hopkins Place N
 Building 4
 Oakdale, MN 55128
 United States
 Phone: 612-812-7477

VisuraTechnologies.com

Founded in 2015, Visura is a medical device company dedicated to delivering state-of-art visualization solutions to improve the quality of transesophageal echocardiogram probe intubations. Visura has developed the TEECAD System, the world’s first, FDA-cleared, disposable camera that seamlessly connects to a TEE probe, providing physicians real-time visualization for more efficient and effective probe placement.



Ventripoint Diagnostics Ltd..... 1714

605-2 Sheppard Avenue East
 Toronto, ON Canada M2N 5Y7
 United States
 Phone: 416-848-4156

Ventripoint.com

Ventripoint Diagnostics is a medical technology company that is primarily engaged in the development and commercialization of cardiac diagnostic tools. Ventripoint’s flagship product VMS+ generates 3D models and cardiac MRI equivalent volumetrics from your Echo lab.

Product Video: EXPLORE VMS+ 3.0 | Ventripoint.com/explore-vms-3-0

West Coast Ultrasound Institute 1629

3580 Willshire Boulevard
 4th Floor
 Los Angeles, CA 90010
 United States
 Phone: 888-315-4993

WCUI.edu

West Coast Ultrasound Institute (WCUI) is an accredited private College specializing in Diagnostic Medical Imaging. Currently WCUI offers two Cardiovascular Programs: Associate Degree in CardioVascular Sonography and Bachelor of Science in Adult and Pediatric Cardiac Sonography specializing in Congenital Heart Defects Contact: www.wcui.edu or call 310 289-5123 or (888) 315-4993.

ASE2022

HYBRID

ORIGINAL SCIENCE

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/2022Abstracts to see all the original science abstracts, and visit the poster area in the Echo Expo to view all the posters and speak with the authors.



CLINICAL CASES

- ✦ Adult Patient Cases
- ✦ COVID-19 Patient Cases
- ✦ Pediatric & Congenital Patient Cases
- ✦ Veterinary Medicine Cases

- ✦ Valvular Heart Disease: Aortic **NEW!**
- ✦ Valvular Heart Disease: Mitral **NEW!**
- ✦ Valvular Heart Disease: Tricuspid & Pulmonic **NEW!**
- ✦ Veterinary / Comparative Medicine

ORIGINAL SCIENCE – DISEASE/PATHOLOGY-BASED

- ✦ Adult Congenital Heart Disease
- ✦ Athlete's Heart **NEW!**
- ✦ Cardio-Oncology
- ✦ COVID-19
- ✦ 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) **NEW!**
- ✦ Adult & Pediatric Heart Failure / Transplant / Other
- ✦ Ischemic Heart Disease
- ✦ Pediatric Congenital Heart Disease

ORIGINAL SCIENCE – TECHNIQUE/PROCEDURE-BASED

- ✦ 3D Echocardiography
- ✦ Artificial Intelligence / Machine Learning
- ✦ Contrast Echocardiography
- ✦ Critical Care Ultrasound / Point of Care Ultrasound
- ✦ Doppler / Hemodynamics
- ✦ Intraoperative Echocardiography (Operating Room and Interventional Lab) / TEE
- ✦ New Technology
- ✦ 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 33rd Annual ASE Scientific Sessions as an Abstract Grader.

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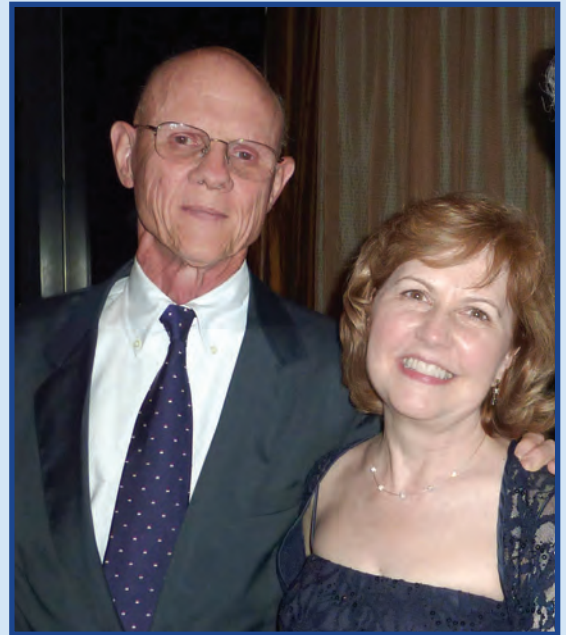
Timothy Woods, MD, FASE

Luciana Young, MD, FAHA, FACC, FASE

Evin Yucel, MD

Congratulations to Arthur E. Weyman, MD, FASE and Jane Marshall, RDCS, FASE!

MGH echocardiography section proudly recognizes Ned Weyman, MD, FASE, and Jane Marshall, RDCS, (AE/PE), FASE, for their many years of service, mentorship, and scientific contributions to the field of cardiovascular ultrasound. Congratulations to both of them on their well-deserved retirement. Thank you for your dedication to your patients, fellows, sonographers, and colleagues.



We will miss you. We wish you a happy and active retirement!



Canadian Society of Echocardiography



www.csecho.ca



@CSEchoCa



Dr. Davinder Jassal
CSE President



Dr. Sharon Mulvagh, FASE
CSE VP, Incoming President

CSE is proud to be an international partner of ASE, with whom we share a common mission of *commitment to excellence in cardiovascular ultrasound education, research and service.*

CSE is here to support our sonographers, trainees, staff and colleagues, and to extend our global collaborations. We heartily congratulate all the awardees recognized at the ASE Foundation Research Awards Gala!

The Canadian Society of Echocardiography is an Affiliate of



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ECHOCARDIOGRAPHY, INC.



Congratulations to Dr. Arthur Labovitz

2022 ASE Physician Lifetime Achievement Award Recipient

The National Board of Echocardiography is delighted to recognize Arthur Labovitz, MD, FACC, FACP, FCCP, FASE, FAHA. Dr. Labovitz is a founding member of NBE, a member of the Board of Directors, and Chairs the CCEeXAM Writing committee, as well as both the ASCeXAM and CCEeXAM Certification committees. We celebrate his dedication to ASE and extend our sincerest appreciation for his years of service.

NBE shares ASE's continued dedication to quality in echocardiography.



NATIONAL
BOARD OF
ECHOCARDIOGRAPHY, INC.



Congratulations to Dr. Neil Weissman

2022 ASE Meritorious Service Award Recipient

The National Board of Echocardiography is delighted to recognize NBE Board of Directors member Neil Weissman, MD, FACC, FASE. We applaud his contributions to the field of echocardiography and extend our congratulations on this well-deserved honor.

NBE shares ASE's continued dedication to quality in echocardiography.



MedStar Health



30 years of academic leadership in cardiovascular ultrasound for clinical trials.

The Cardiovascular Imaging Core Lab at MedStar Health Research Institute provides proven expertise in cardiac magnetic resonance imaging, computerized tomography, and ultrasound in a responsive, academic environment.

With three decades of leadership in cardiology research and clinical trials, we are proud to partner with ASE in the WASE Studies program since 2016.

To learn more about our work, visit MedStarResearch.org

**It's how we
treat people.**

All Things ASEF This Meeting!

ASE Foundation Booth

Saturday, June 11 - Monday, June 13

We've missed you. Stop by and see us!



Cardiovascular Challenge

Friday, June 10 - Monday, June 13

Log your exercise all weekend and compete for prizes! Track the competition at the ASE Foundation Booth.



Hearts All Around Us Photo Exhibit

Saturday, June 11 - Monday, June 13

Check out this year's display featuring heart shaped objects found in everyday life.

Photos available for purchase with donation in photographer's name.

On display at the ASE Foundation Booth.



Suzanne Simard, PhD Book Signing

Sunday, June 12 from 9:00 - 10:00 AM

Outside Ballroom 6E

Purchase *Finding the Mother Tree* in advance at the ASE Foundation Booth. Limited copies available.



13th Annual Research Awards Gala

Sunday, June 12 from 7:00 - 11:00 PM

Grand Hyatt Seattle

Celebrate ASE's 2022 Award Winners and support cardiovascular ultrasound research!

Advance tickets required.



ASE Foundation

ASEF solely relies on donations for its activities. Donate today at ASEFoundation.org



RESEARCH AWARDS GALA

CELEBRATING CARDIOVASCULAR
ULTRASOUND RESEARCH

PRESENTED BY THE ASE FOUNDATION

Thank you to the evening's supporters

ADVOCATE TABLE LEVEL SUPPORTERS

Federico Asch, MD, FASE for MedStar Health
Research Institute

Judy Hung, MD, FASE

Amer Johri, MD, FASE and Sharon Mulvagh,
MD, FASE for the Canadian Society of
Echocardiography

Geoffrey Rose, MD, FASE for Atrium Health -
Sanger Heart & Vascular Institute

National Board of Echocardiography

BENEFACTOR TABLE LEVEL SUPPORTER

Samuel Siu, MD, SM, MBA, FASE

ASEFoundation.org/Gala2022

SUNDAY, JUNE 12, 2022
GRAND HYATT SEATTLE
SEATTLE, WA



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. For more information about ASE, visit: ASEcho.org and follow us [@ASE360](https://twitter.com/ASE360).

ASE MEMBERSHIP

ASE is an organization that is open to all echo enthusiasts. It serves its members in numerous ways by providing education, advocacy, research, practice guidelines, and a community for their profession. ASE membership includes over \$750 of FREE CME credits a year, in addition to discounts on all ASE educational courses and products. Members also receive a monthly subscription to the *Journal of the American Society of Echocardiography* (JASE), access to CASE, ASE's online case reports journal, assistance with coding and reimbursement issues, networking opportunities, and other career resources. If you are not already a member of ASE, visit the ASE Booth in the Echo Expo to join today or join online at ASEcho.org/join.

ASE COUNCILS AND SPECIALTY INTEREST GROUPS

ASE has four councils that provide members with an opportunity to be involved with one or more subspecialty group.

- ✦ Council on Pediatric and Congenital Heart Disease
- ✦ Council on Perioperative Echocardiography
- ✦ Council on Cardiovascular Sonography
- ✦ Council on Circulation & Vascular Ultrasound

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

- ✦ Cardio-Oncology
- ✦ Critical Care Echocardiography (*transitioning to a council in July 2022*)
- ✦ Emerging Echo Enthusiasts
- ✦ Interventional Echocardiography (*transitioning to a Council in January 2023*)
- ✦ Neonatal Hemodynamics TrECHO
- ✦ Veterinary

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SeeMyHeart.org
ASELearningHub.org
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BOARD, COUNCIL, AND COMMITTEE MEETINGS

FRIDAY, JUNE 10TH

ASE Board of Directors	11:30 AM – 1:00 PM	Sheraton
Council on PCHD Steering Committee	2:00 – 3:30 PM	212
Emerging Echo Enthusiasts Specialty Interest Group	3:30 – 4:30 PM	214
Twitter Journal Club Sub Group	4:00 – 5:00 PM	212

SATURDAY, JUNE 11TH

Finance Committee	11:00 AM – 12:00 PM	212
Council on CV Sonography Steering Committee	11:30 AM – 1:00 PM	205
Council on Perioperative Echocardiography Steering Committee	11:30 AM – 1:00 PM	213
JASE Editorial Board	12:00 – 1:30 PM	201
Veterinary Specialty Interest Group	1:00 – 2:00 PM	214
Echo Lab Medical and Technical Directors Leadership Forum	1:00 – 2:00 PM	2A
ImageGuideEcho Pediatric Registry Sub-Committee	1:30 – 2:30 PM	205
Governance & Compliance Committee Meeting	2:00 – 3:00 PM	212
ASEF Annual Appeal Committee	2:00 – 3:30 PM	210
CASE Editorial Board	2:30 – 4:00 PM	201
Leadership Academy	4:30 – 6:30 PM	205

SUNDAY, JUNE 12TH

Council on Circulation and Vascular Ultrasound Steering Committee	7:00 – 8:00 AM	212
CoA-ACS	7:00 – 8:00 AM	214
Advocacy Committee	7:00 – 8:30 AM	213
Networking for VA Hospitals (sponsored by ASE SIGs)	7:30 – 8:30 AM	205
Awards Committee	9:00 – 9:45 AM	205

CME Committee Meeting	9:30 – 10:30 AM	210
Research Committee	9:30 – 11:00 AM	213
PR Committee Meeting	11:00 AM – 12:00 PM	214
Critical Care Echocardiography Council Steering Committee	11:00 AM – 12:30 PM	205
International Leadership Luncheon (Invitation Only)	11:30 AM – 1:00 PM	201
Education Committee	11:30 AM – 12:30 PM	205
ImageGuideEcho Research & Publications Committee	12:30 – 1:30 PM	212
Nominations Committee Meeting	12:45 – 1:30 PM	205
Membership Steering Committee	1:00 – 2:00 PM	210
Cardio-Oncology Specialty Interest Group	1:30 – 2:30 PM	214
FASE Training & Certification Advisory Committee	2:00 – 3:00 PM	213
Research Restructure Workgroup	2:00 – 3:30 PM	212

MONDAY, JUNE 13TH

IRT Committee Mtg	10:00 – 11:00 AM	2B
ASE Foundation Board of Directors	10:30 AM – 12:30 PM	212
Guidelines & Standards Committee	11:45 AM – 1:15 PM	210
ImageGuideEcho Registry Committee	1:00 – 2:00 PM	213

TUESDAY, JUNE 14TH

ASE/IEEE Hackathon	7:00 AM – 4:00 PM	210
2022 SS Program Committee	8:30 AM – 10:00 AM	205



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 108 new FASE members who achieved this designation between June 2021 and April 2022. For a complete list of FASE, please visit [SeeMyHeart.org](https://www.seemyheart.org). Learn more about applying for FASE at [ASEcho.org/FASE](https://www.asecho.org/FASE).

NEW FASE RECIPIENTS

June 2021 - April 2022

Samah Ismael Abohamr, MD, M.Sc., MBBch, FASE

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Sethabel Levi Alvarado, MD, FASE

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Wilbur Jeremiah Asheld, DO, FASE

Ravi Ashwath, MD, MBBS, FASE

Au Shek Yin, MBBS, FASE

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Kristie Faust-Gomez, BS, ACS, RDCS, RVT, RT(R), FASE

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The ASE Foundation (ASEF) is ASE's charitable arm, helping to assure the viability and visibility of cardiovascular ultrasound. Every dollar raised through the Foundation's Annual Appeal goes directly back into the field. The Foundation conducts an Annual Appeal each year soliciting individuals, companies, and foundations to support its efforts. The ASE Foundation met 121% of its \$200,000 fundraising goal for the 2021 Annual Appeal, raising \$241,292. All contributions to the Foundation received in 2022 will support the following initiatives:

- ✦ Global Health Outreach
- ✦ Patient Engagement
- ✦ Research
- ✦ Travel Grants & Scholarships

Stop by the ASE Foundation booth, located in the Atrium Lobby Level 4 to:

- ✦ Learn more about fundraising events being hosted in Seattle, such as the Annual Research Awards Gala, and the Cardiovascular Challenge.
- ✦ View the *Hearts All Around Us* photo exhibition
- ✦ Pick up your "I GAVE TODAY" badge
- ✦ Inquire about volunteer opportunities
- ✦ Purchase an ASEF bracelet

The Foundation booth will be open the following hours:

- ✦ Saturday, 9:00 AM – 5:00 PM
- ✦ Sunday, 9:00 AM – 5:00 PM
- ✦ Monday, 9:00 AM – 5:00 PM

Look for ASEF Annual Appeal Committee members with an "Ask Me" button, as they are dedicated donors who serve the organization by directly soliciting for donations from others. Donate today and help us to make a world of difference!

CARDIOVASCULAR CHALLENGE

Get moving with the ASE Foundation Cardiovascular Challenge. Sign up to participate at the ASEF Booth in the Atrium Lobby Level 4, then record your miles logged every day and log them at the booth. The person with the most miles logged will receive a \$150 Amazon gift card, second place will receive a \$75 Amazon gift card, and the person with the third will receive a limited edition ASEF hat. The winners will be announced Monday, June 13, at 3:30 PM in the Echo Expo.



Special thanks to our 2022 Cardiovascular Challenge sponsors:



HEARTS ALL AROUND US GALLERY

A special curated showcase of photographs will be on display from Saturday - Monday. This year's photo exhibit is *Hearts All Around Us* and will showcase photographs of heart-shaped things you have come across in nature, architecture, and everyday life. Many photos will be available to take home with a donation to the ASE Foundation. Stop by the ASE Foundation booth to see hearts all around.

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THANK YOU – CUMULATIVE GIVING RECOGNITION

This list recognizes cumulative giving from individual donors as of December 31, 2021. 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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^This list reflects all donations of \$50 or more made to the 2021 Annual Appeal between 1/1/2021 and 12/31/2021.

We strive to be accurate and complete, but errors occasionally occur. Your assistance in bringing any inaccuracies to our attention is greatly appreciated.



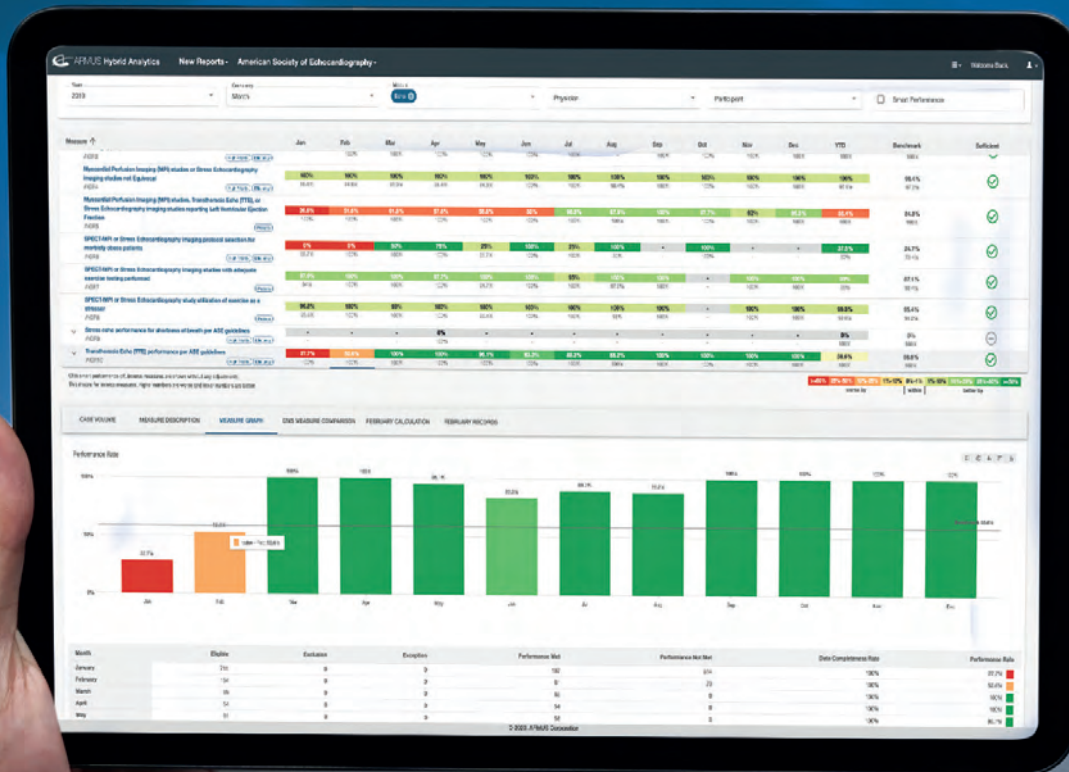
EXPANDING THE REGISTRY – INTRODUCING THE PEDIATRIC ECHO MODULE

The Pediatric Module

- Fills an important gap in imaging research.
- Allows for more convenient access to multi-center echo data for member institutions.
- Builds upon the existing registry structure to integrate congenital and pediatric heart disease.
- Functions as a research registry, in addition to a quality improvement resource.

“This Pediatric Echo Module affords primary investigators at enrolled institutions the power to answer many important research and QI questions that require a sample size larger than that of a single institution.”

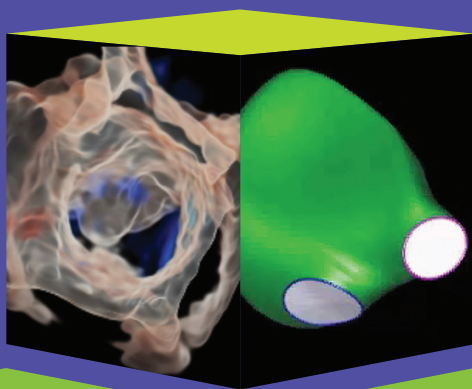
—Daniel Forsha, MD, MCS, FASE, Chair, ImageGuideEcho Pediatric Registry Sub-Committee



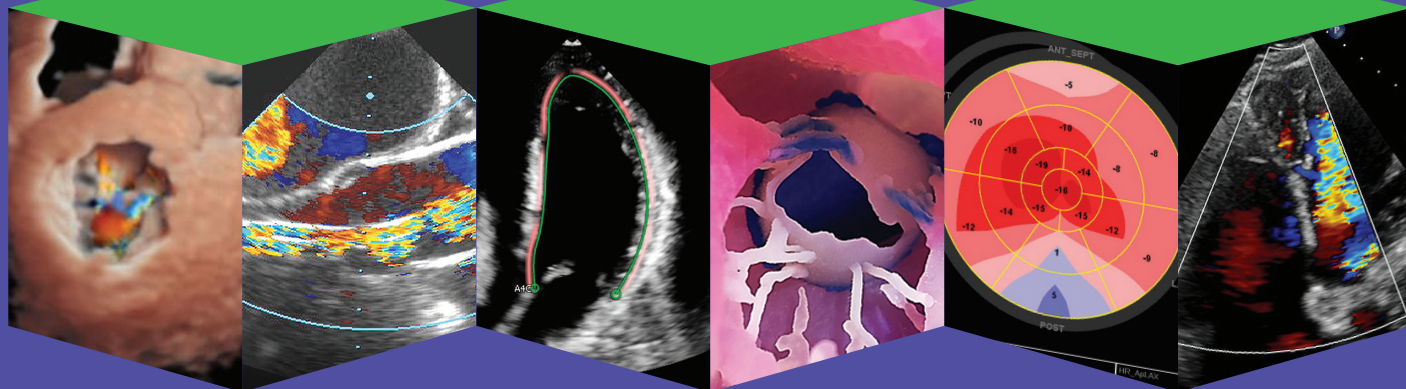
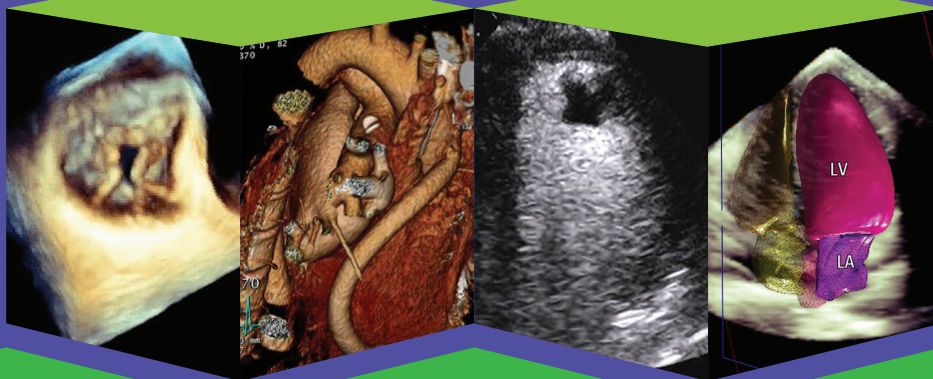
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Foundations and the Future of Cardiovascular Ultrasound



*Abstract
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