

FINAL PROGRAM

ASE 2015

American Society of Echocardiography
26TH ANNUAL SCIENTIFIC SESSIONS

HYNES CONVENTION CENTER **BOSTON, MA**

SESSIONS | FRI, JUNE 12 - TUES, JUNE 16

EXHIBITS | SAT, JUNE 13 - MON, JUNE 15

asescientificsessions.org



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 right-to-left, bi-directional or transient right-to-left cardiac shunts, by intra-arterial injection, or to patients with known hypersensitivity to perflutren.

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 anaphylactoid reactions have been reported during or shortly following perflutren-containing microsphere administration [See ADVERSE REACTIONS (6)]. The risk for these reactions may be increased among patients with unstable cardiopulmonary conditions [See Postmarketing Experience (6.2)]. It is not always possible to reliably establish a causal relationship to drug exposure due to the presence of underlying cardiopulmonary disease.

DEFINITY® presents a proven diagnostic advantage that optimizes patient management, cost-effectiveness and outcomes¹

- Impacts cardiac diagnosis¹
- Avoids additional diagnostic procedures¹
- Alters patient management decisions¹
- Reduces resource utilization and per-patient expense¹

More than 5.5 million echo studies have been performed with DEFINITY®²

References: 1. Kurt M, et al. Impact on Contrast Echocardiography on Evaluation of Ventricular Function and Clinical Management in a Large Prospective Cohort. *J. Am. Coll. Cardiol.* 2009;53:802-810. 2. ©2001-2014 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission. 3. DEFINITY® [package insert]. N. Billerica, MA: Lantheus Medical Imaging, Inc., 2013. 4. Becher H, Burns PN. *Handbook of Contrast Echocardiography: Left Ventricular Function and Myocardial Perfusion*. Heidelberg, NY: Springer-Verlag; 2000:2-44. 5. Kitzman DW, et al. Efficacy and Safety of the Novel Ultrasound Contrast Agent Perflutren (DEFINITY) in Patients with Suboptimal Baseline Left Ventricular Echocardiographic Images. *Am J Cardiol.* 2000;86:669-674. 6. Sboros V, et al. Contrast Agent Stability: A Continuous B-Mode Imaging Approach. *Ultrasound in Med. & Biology.* 2001;27:1367-1377. 7. Data on file, Lantheus Medical Imaging, Inc.

People and images depicted are for illustrative purposes only.

The DEFINITY® Difference

DEFINITY® is engineered to produce small and consistently-sized durable microbubbles to fully evaluate the left ventricle³

- Fully synthetic formulation³
- Microbubble persistency⁴⁻⁶
- Multiple administration options³
- Consistent safety profile^{3,7}
- Proven diagnostic advantage^{1,5}

Please see accompanying brief summary, including boxed **WARNING** regarding serious cardiopulmonary reactions.

To place an order, call 1-800-299-3431 or visit www.definityimaging.com.

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DEFINITY®
VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

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

Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or following perflutren-containing microsphere administration [See WARNINGS AND PRECAUTIONS]. Most serious reactions occur within 30 minutes of administration.

- Assess all patients for the presence of any condition that precludes DEFINITY® administration [See CONTRAINDICATIONS].
- Always have resuscitation equipment and trained personnel readily available.

DESCRIPTION

DEFINITY® (Perflutren Lipid Microsphere) Injectable Suspension is an ultrasound contrast agent. The DEFINITY® vial contains components that upon activation yield perflutren lipid microspheres, a diagnostic drug that is intended to be used for contrast enhancement during the indicated echocardiographic procedures. The vial contains a clear, colorless, sterile, non-pyrogenic, hypertonic liquid, which upon activation with the aid of a VIALMIX®, provides a homogeneous, opaque, milky white injectable suspension of perflutren lipid microspheres. The suspension of activated DEFINITY® is administered by intravenous injection.

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.

CONTRAINDICATIONS

Do not administer DEFINITY® to patients with known or suspected:

- Right-to-left, bi-directional, or transient right-to-left cardiac shunts,
- Hypersensitivity to perflutren [see WARNINGS AND PRECAUTIONS].

Do not administer DEFINITY® by intra-arterial injection.

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].

Anaphylactoid Reactions:

In postmarketing use, uncommon but serious anaphylactoid reactions were observed during or shortly following perflutren-containing microsphere administration including: Shock, hypersensitivity, 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 have occurred in patients with no prior exposure to perflutren-containing microsphere products [see ADVERSE REACTIONS].

Systemic Embolization of DEFINITY® in Patients with Cardiac Shunts:

In patients with right-to-left, bi-directional, or transient right-

to-left cardiac shunts phospholipid-encapsulated microspheres can bypass the pulmonary particle-filtering mechanisms and directly enter the arterial circulation resulting in microvascular occlusion and ischemia. In an animal study utilizing intra-arterial administration of activated DEFINITY®, microsphere trapping was seen in small arterioles <15 µm, especially at branch points and in capillaries at all doses tested, including doses directly applicable to those used in humans. An animal study utilizing intravenous administration did not result in arterial microvascular obstruction presumably because of filtering by the lungs. Do not administer DEFINITY® by intra-arterial injection [see CONTRAINDICATIONS].

High Ultrasound 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. The safety of activated DEFINITY® at mechanical indices greater than 0.8 has not been evaluated [see DOSAGE AND ADMINISTRATION]. The safety of activated DEFINITY® with the use of end-systolic triggering has not been evaluated.

QTc Prolongation:

ECG parameters for doses up to 10 microL/kg were monitored in 221 subjects at multiple time points from 1 hour to 72 hours after the first bolus injection. In the 221 subjects, QTc prolongations of >30 msec were noted in 64 (29%) subjects. Forty-six out of 64 subjects with QTc prolongations were further evaluated and 39% (18/46) showed associated cardiac rhythm changes. The effects of concomitant drugs were not studied.

ADVERSE REACTIONS

Clinical Trials Experience

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 6.1). There were 26 serious adverse events and 15 (0.9%) subjects discontinued because of an adverse event.

Deaths and Serious Adverse Events

Among the 1716 activated DEFINITY® patients, 19 (1.1%) suffered serious cardiopulmonary adverse events including eight deaths. The deaths occurred several days after activated DEFINITY® administration and appeared to be related to the course of underlying disease. Of the 11 other serious adverse events, which appeared within days of the drug administration (2-15 days), all appeared to be a progression underlying cardiac and non-cardiac disease. However, a role for DEFINITY® in the initiation or course of these adverse events cannot be ruled out.

Discontinuations

There were 15 discontinuations reported with a mean age of 41.5 years. Nine of these patients were discontinued after the first injection. One patient experienced a hypersensitivity reaction with urticaria and pruritus and all the other patients experienced dizziness, chest pain, dyspnea or back pain. These adverse reactions appeared within minutes (1 – 15 min) of the drug administration and were of moderate intensity resolving usually without treatment within minutes or hours after onset.

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 6.1 summarizes the most common adverse reactions.

Table 6.1. New-Onset Adverse Reactions Occurring in ≥0.5% of All Activated DEFINITY®-Treated Subjects			
	All activated 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)	

(Table 6.1 Cont'd)	All activated DEFINITY® (N=1716)	
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 perversion

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-containing microsphere products. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Fatal cardiopulmonary and anaphylactoid events and other serious but non-fatal adverse reactions were uncommonly reported. These events typically occurred within 30 minutes of DEFINITY® administration. These serious events 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 [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.

Anaphylactoid

Anaphylactic/anaphylactoid reaction, anaphylactic shock, hypersensitivity, bronchospasm, throat tightness, angioedema, edema (pharyngeal, palatal, mouth, peripheral, localized), swelling (face, eye, lip, tongue, upper airway), facial hypoesthesia, rash, urticaria, pruritus, flushing, erythema.

Neurologic

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

OVERDOSAGE

The clinical consequences of overdosing with activated

DEFINITY® are not known. Treatment of an overdose should be directed toward the support of all vital functions and prompt institution of symptomatic therapy [see CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS].

DOSAGE AND ADMINISTRATION

DEFINITY® is intended for administration only after activation in the VIALMIX® apparatus. Before injection, this product must be activated and prepared according to the instructions outlined below. The VIALMIX® 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. 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.

Bolus

The recommended bolus dose for activated DEFINITY® is 10 microliters (microL)/kg of the activated product by intravenous bolus injection within 30-60 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 4.0 mL/minute, but titrated as necessary to achieve optimal image enhancement, not to exceed 10 mL/minute.

Imaging

After baseline non-contrast echocardiography is completed, set the mechanical index for the ultrasound device at 0.8 or below [see WARNINGS AND PRECAUTIONS]. Then inject activated DEFINITY® (as described above) and begin ultrasound imaging immediately. Evaluate the activated DEFINITY® echocardiogram images in combination with the non-contrast echocardiogram images.

In a crossover trial of 64 patients randomized to both bolus and infusion, the duration of clinically useful contrast enhancement for fundamental imaging was approximately 3.4 minutes after a

10 microL/kg bolus and was approximately 7.1 minutes during the continuous infusion of 1.3 mL activated DEFINITY® in 50 mL saline at a rate of 4 mL/min.

DEFINITY® Activation, Preparation and Handling Instructions

1. Allow the vial to warm to room temperature before starting the activation procedure.
2. Activate DEFINITY® by shaking the vial for 45 seconds using a VIALMIX®.

Note: illustrations of this procedure are contained in the VIALMIX® Users Guide.

Do not use this drug unless it has completed a full 45 second activation cycle in the VIALMIX®. DEFINITY® will not be properly activated unless the full 45 second activation cycle is completed. Do not reactivate the vial if VIALMIX® did not complete a full 45 second cycle. Do not reactivate a successfully activated DEFINITY® vial (see step 3). Do not use a VIALMIX® that is not functioning properly. Refer to the "VIALMIX® User's Guide" for the "VIALMIX® calibration and replacement procedures" to ensure that a properly functioning VIALMIX® is used.

3. Immediately after activation in the VIALMIX®, activated DEFINITY® appears as a milky white suspension and may be used immediately after activation. If the product is not used within 5 minutes of VIALMIX® activation, the microspheres should be resuspended by 10 seconds of hand agitation by inverting the vial before the product is withdrawn in a syringe. The activated DEFINITY® may be used for up to 12 hours from the time of VIALMIX®, but only after the microspheres are resuspended by hand agitation. Store the activated DEFINITY® at room temperature in the original product vial.
4. Invert the vial and withdraw the activated milky white suspension using the Intellipin™ (Dispensing Pin) or 18 to 20 gauge syringe needle. Withdraw the material from the middle of the liquid in the inverted vial. Do not inject air into the DEFINITY® VIAL.
5. Use the product immediately after its withdrawal from the vial; do not allow the product to stand in the syringe.

For single use only: DEFINITY® does not contain bacterial preservative. Bacterial contamination with the risk of post-administration septicemia can occur following the puncture

of the elastomeric septum. It is essential to follow directions for activation of DEFINITY® carefully and to adhere to strict aseptic procedures during preparation.

HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

DEFINITY® is supplied as a single use 2-mL clear glass vial containing clear liquid in packages of four (4) and sixteen (16) single-use vials.

Storage and Handling

Store between 2-8°C (36°-46°F).

FOR SINGLE USE ONLY: DEFINITY® does not contain bacterial preservative. Bacterial contamination with the risk of post-administration septicemia can occur following the puncture of the elastomeric septum. It is essential to follow directions for activation of DEFINITY® carefully and to adhere to strict aseptic procedures during preparation.

PATIENT COUNSELING INFORMATION

Patients receiving activated DEFINITY® should be instructed to inform their healthcare provider if they:

1. have a congenital heart defect, or recent worsening of heart or lung conditions [see CONTRAINDICATIONS and WARNINGS AND PRECAUTIONS],
2. have had prior reactions to DEFINITY® [see CONTRAINDICATIONS],
3. may be pregnant, are trying to become pregnant, or are nursing [see USE IN SPECIFIC POPULATIONS].

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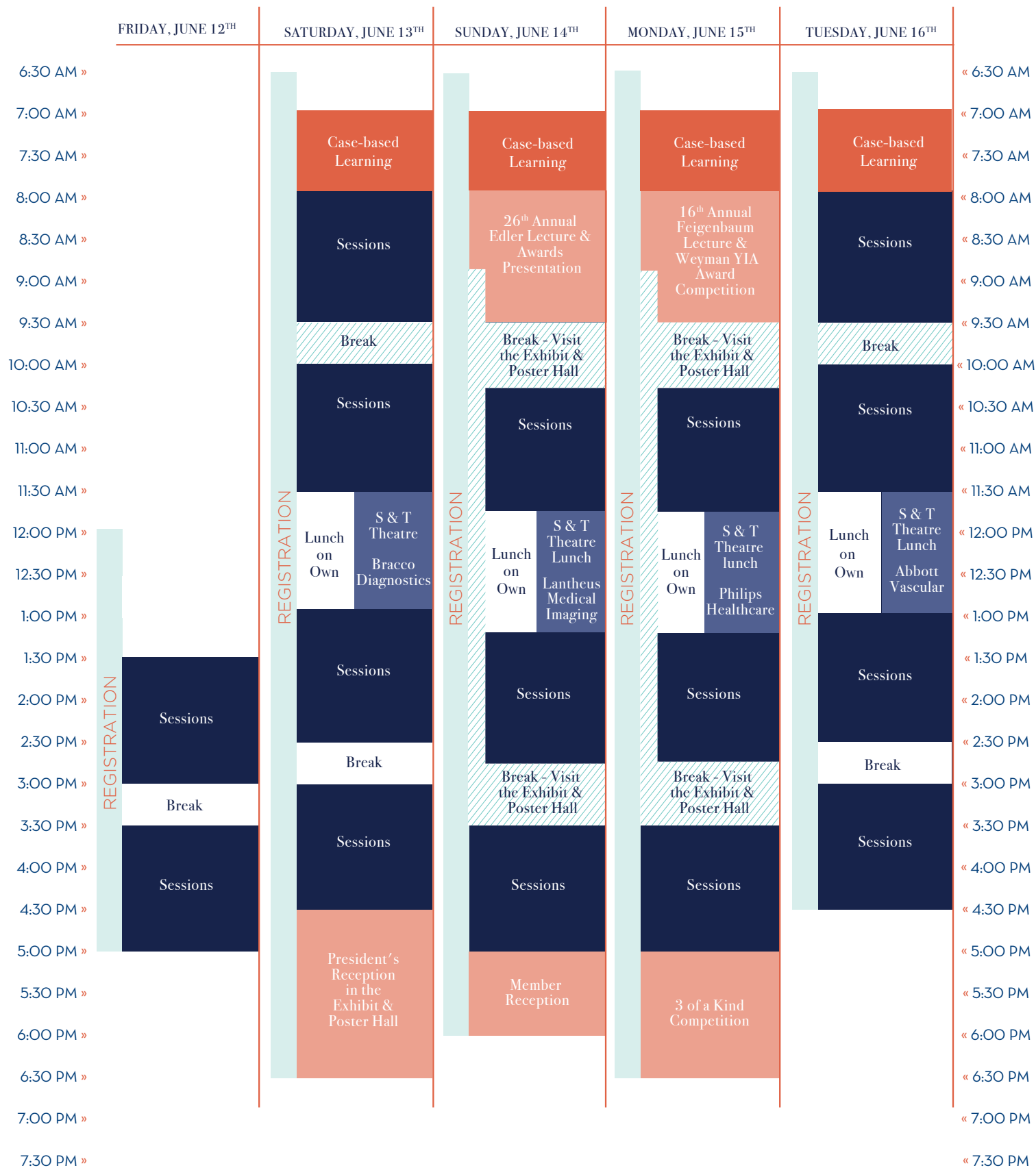


For ordering, tel. toll free: 800-299-3431
All Other Business: 800-362-2668
(For Massachusetts and International, call 978-667-9531)

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CONFERENCE AT A GLANCE

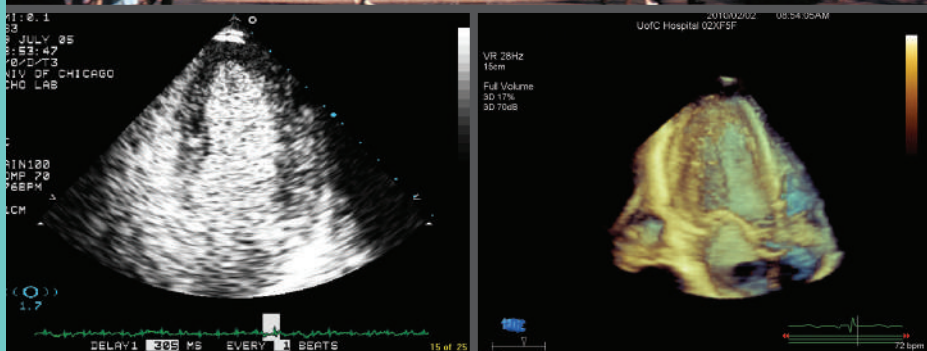


ECHO FLORIDA

4th ANNUAL



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October 11-13, 2015

Preconferences available on October 10

Disney's Yacht & Beach Club Resort

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New York, NY

Course Co-Director

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www.asecho.org/echoflorida

 **ASE** American Society of
Echocardiography

 **ASE** Foundation

DEAR FRIENDS & COLLEAGUES,

On behalf of the entire Scientific Sessions Planning Committee, I warmly welcome you to the 26th Annual American Society of Echocardiography Scientific Sessions! The focus of this year's meeting is "The Expanding Reach of Echocardiography," encompassing advances in technology which have increased the diagnostic capabilities of echocardiography, the growing numbers of specialists using echocardiography to improve patient management, and the globalization of healthcare through the use of echocardiography. What better location for lofty ideals, than Boston!

There are some very special sessions which I'd like to bring to your attention. On Sunday, Dr. Patrick O'Gara, immediate past president of the American College of Cardiology, will give the 26th Annual Edler lecture. The 16th Annual Feigenbaum lecture will be given on Monday by Dr. Madhav Swaminathan, Clinical Director, Division of Cardiothoracic Anesthesiology & Critical Care Medicine, Duke University Health System. Our special symposium on Sunday is "Inspiring Health Care in Developing Countries," featuring Commander Steven C. Romero of the US Navy, Dr. Larry Melniker of WINFOCUS, and our highlighted guest speaker and honorary FASE, Dr. Roberto Canessa. Dr. Canessa is a pediatric cardiologist from Montevideo, Uruguay, who survived the famous 1972 Andes plane crash. Come and hear his inspirational account of this remarkable experience!

Ensuring you are incorporating the very latest guidelines into your practice, we are stressing the newest ASE guidelines on Chamber Quantification, imaging in cancer patients, monitoring during therapeutic intervention, imaging diseases of the aorta, and imaging in patients with repaired tetralogy of Fallot. The sessions are organized into thematic tracks that vary not only in content, but also learning methods which include early morning case-based learning, didactic lectures on new technology and clinical applications of echo, debates, and the "Three-of-a-Kind" game show is back!! ASE faculty prides itself on being accessible to attendees and there is no better way to get your individual questions answered than during the "Chalk Talks" with the experts. Our "Imaging Essentials" track offers not only disease-based imaging fundamentals, but also advanced imaging techniques for diagnostic dilemmas. New this year are Point-of-Care symposia throughout the Sessions, with a dedicated afternoon of hands-on training. We will provide "cutting edge" information on new technology and clinical integration of 4-D imaging, strain imaging, and contrast. We also cover areas of growing special interest to general cardiologists such as interventional echocardiography for structural heart disease procedures and adult congenital heart disease.

Finally, a number of networking opportunities should not be missed: the ASE Foundation's Healing Hearts Scavenger Hunt, the ASEF Gala to honor this year's award winners, the President's and Member Receptions, and of course, the FASE Lounge. We hope you take advantage of the tremendous educational and social activities available at the ASE 26th Annual Scientific Sessions!

On behalf of the ASE Scientific Sessions Program Committee and the Board of Directors, welcome to Boston!

Rebecca T. Hahn, MD, FASE
ASE 2015 Program Chair
Columbia University
New York, New York



REGISTRATION, BADGE & TICKET DISTRIBUTION

ATTENDEE REGISTRATION

The registration counter is located in the Exhibit Hall C Foyer, Second Level of the Hynes Convention Center. Attendees may pick up their conference materials and name badge at this location.

ASE FACULTY AND ATTENDEE

REGISTRATION COUNTER HOURS:

Friday, June 12.....	12:00 pm–5:00 pm
Saturday, June 13.....	6:00 am–6:30 pm
Sunday, June 14.....	6:30 am–6:00 pm
Monday, June 15.....	6:30 am–6:30 pm
Tuesday, June 16.....	6:30 am–4:30 pm

FASE LOUNGE

SATURDAY, JUNE 13 – MONDAY, JUNE 15	9:00 AM – 4:00 PM
TUESDAY, JUNE 16	9:00 AM – 2:00 PM

ROOM 311, LEVEL 3

Enjoy the benefits of being a Fellow of the American Society of Echocardiography (FASE) at the exclusive FASE Lounge conveniently located near the Speaker Ready Room. Come and pick up your FASE ribbon to show your dedication to your field and your prestigious designation. Lounge amenities will allow you to connect with friends, grab some refreshments, and take a break from the hustle and bustle of the day while being close to all the sessions.

ASE thanks Hitachi Aloka for sponsoring the FASE Lounge at ASE 2015. We hope you can join them for their presentation Sunday, June 14 12:00 pm – 12:20 pm in the FASE Lounge.

SPEAKER READY ROOM

The Speaker Ready Room is located in Room 310. Faculty name badges will be available at the ASE Registration Counter during registration hours. The Speaker Ready Room will be staffed with technicians to assist faculty with uploading and previewing presentations as follows:

Friday, June 12.....	12:00 pm–5:00 pm
Saturday, June 13.....	6:00 am–4:30 pm
Sunday, June 14.....	6:30 am–4:30 pm
Monday, June 15.....	6:30 am–4:30 pm
Tuesday, June 16.....	6:30 am–3:00 pm

NAME BADGES

Admission to the educational sessions, ASE Exhibit & Poster Hall and Science & Technology Theatre is by badge only. Please wear your name badge at all times when in the convention center. However, we recommend for your safety that name badges not be worn outside of the convention center.

ASE exhibitors may use a lead retrieval system in the Exhibit & Poster Hall or Science & Technology Theatre to obtain your information. Your name badge also functions as your exhibit badge, providing exhibitors with your name, institution (where applicable), address, business telephone number and email address. Otherwise, ASE will not release email addresses of attendees who declined this option on their registration form. Family members with guest badges will be admitted to the Exhibit & Poster Hall and may sit in on educational sessions as space allows, but they are not eligible for a conference bag or to claim CME/CEU credit. Guests must be at least 12 years of age.

You may purchase guest badges for family members at the ASE Registration Counter. ASE reserves the right to revoke or deny attendance to any registered participant, speaker, exhibitor, news media reporter or photographer at presentations or activities during the ASE 26th Annual Scientific Sessions.

CLAIMING CONTINUING EDUCATION CREDIT

Please follow the instructions below to claim your CME credit:

- 1 ASE Members:** Go to www.asecho.org and log on to the Member Portal with your ASE member e-mail and password. If you forget your password, simply click “Retrieve” under the login.
 - » Click on **ASEUniversity** and **CME Credits** (This will take you directly to your ASEUniversity profile)
- 2 Non-Members:** Go to www.aseuniversity.org, create a new account or log into your existing ASEUniversity account.
- 3** Once logged into ASEUniversity, the top of the page should say, “Hello, ____.” Click **Your Account**.
- 4** Under **Your Account**, click on **Add Access Code** and enter the code, **ASE2015**
- 5** Verify your registration information. Please be sure to use the same information that you used to register for the event.
- 6** Once verified, click **Take Evaluation** to claim your CME credit. CME credits are not earned until the entire evaluation has been completed.
- 7** Your certificate will be available for immediate download and can also be found under **Your Account** in the **CE Transcript**.

Deadline to claim credit for this conference is July 17, 2015.

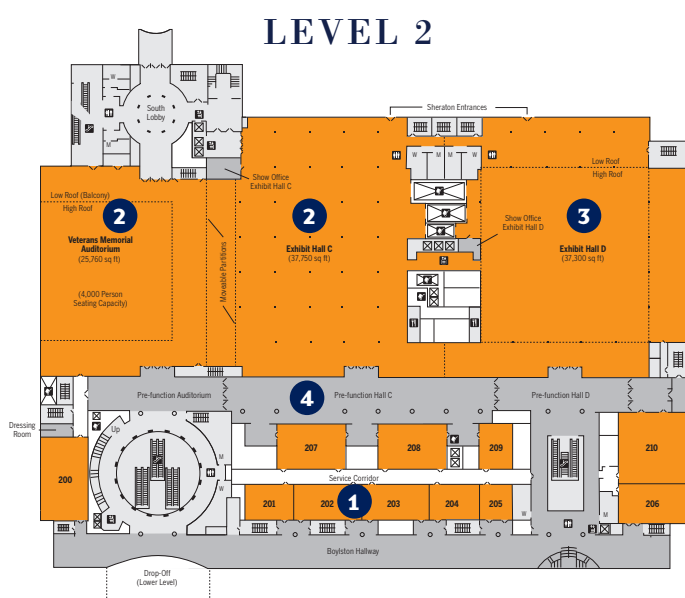
FACILITY INFORMATION

The Hynes Convention Center's physical address is:

900 Boylston Street

Boston, MA 02115

The John B. Hynes Veterans Memorial Convention Center is located right in the heart of Boston's historic Back Bay neighborhood, and is connected to not one, but two major retail complexes. The Shops at the Prudential Center and Copley Place contain just about everything you need during your stay including world-class shopping, dining, attractions, and other amenities.



- | | |
|--------------------------------|-------------------------|
| ① Committee Meetings | ⑥ Session Rooms |
| ② Exhibit & Poster Hall | ⑦ Speaker Ready Room |
| ③ Science & Technology Theatre | ⑧ Session Overflow Room |
| ④ Registration Counter | ⑨ Luggage Storage |
| ⑤ FASE Lounge | |

FIRST AID

An emergency medical professional will be available during the hours of the ASE 2015 meeting, as well as during set-up 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 nurse on duty.

LOST & FOUND

Questions regarding lost or found items can be directed to the ASE Registration Counter located outside Exhibit Hall C on the second level of the convention center.

LUGGAGE STORAGE

Luggage storage will be available at the Hynes Convention Center in Room 308.

BUSINESS CENTER

To help you stay productive, the Hynes features a full-service FedEx Office business center, located on Level One off the Main Lobby. Make copies, print a PowerPoint handout, scan a document, send a fax, purchase office supplies, ship a package, etc. The business center is open Monday - Friday, 9:00 am - 5:00 pm. It is closed on Saturday and Sunday.

PROGRAM INFO & REGULATIONS

FOOD FUNCTIONS

ASE will provide continental breakfast in the Boylston Hallway, Level 3, from 6:30 am – 7:30 am daily. Morning and afternoon coffee breaks are available for registered attendees in the Exhibit & Poster Hall on Sunday, June 14 and Monday, June 15 and in the Boylston Hallway, Level 3, on Friday, June 12, Saturday, June 13 and Tuesday, June 16. Please refer to the Schedule at a Glance for the times of the daily morning, afternoon, and lunch breaks.

ASE will provide lunch on a first come, first served basis (max. 350 participants) for attendees of the Science & Technology Theatre, located in the Exhibit & Poster Hall. See page 100 of this program for a detailed theatre schedule.

INTERNET ACCESS

Complimentary Wi-Fi is available throughout the Hynes Convention Center.

CELL PHONE USE

Cell phones should not be used in the educational sessions. For consideration of faculty and other attendees, please remember to turn your cell phones and/or other electronic devices off or set them to vibrate mode.

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.

NEWS MEDIA

For information regarding news releases, news conferences, and interviews, please visit the ASE Registration Counter located outside Exhibit Hall C on the second level of the Convention Center. Media representatives must display their official ASE badge at all times. Please see our Photography and Audio/Visual Recording policy.

PHOTOGRAPHY AND AUDIO/VISUAL RECORDING POLICY

No person may record any portion of the ASE 2015 Scientific Sessions, either by video, still or digital photography, audio or any other recording or reproduction mechanism. Taking photos of or recording the content of meeting room slides or poster abstract presentations is also prohibited and is considered intellectual piracy. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their conference badge and privileges. ASE reserves the rights to all recordings or reproductions at ASE meetings. Please be aware that during the Scientific Sessions, attendees, vendors, guests, and exhibitors may be photographed or videotaped by ASE 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.

CHILDREN

Information about childcare is available at your hotel's concierge desk. ASE does not offer childcare services. Due to limited seating capacity and the highly technical nature of the program, children are not allowed to attend sessions. For their safety, children must be accompanied by an adult at all times during the ASE 2015 Scientific Sessions. Children 12 and older must have a purchased guest registration before they will be allowed entry into the Exhibit & Poster Hall. Children 11 and younger, strollers, and infant carriers are not permitted on the exhibit floor at any time.

EDUCATION INFORMATION

TARGET AUDIENCE

The ASE 26th Annual Scientific Sessions will benefit all healthcare providers interested in the application of cardiovascular ultrasound imaging in the care of patients and in research. 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 oral and poster research presentations offer a broad spectrum of educational opportunities in both large and small group settings. 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, radiologists, research scientists, residents and fellows in training, students, and nurses. Attendees are encouraged to interact with available faculty, and also to take advantage of the opportunity to gain new expertise and to gain credits for Maintenance of Certification.

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.

DISCLOSURE

The American Society of Echocardiography is committed to ensuring that its educational mission and all sponsored educational programs are not influenced by the special interests of any corporation or individual, and its mandate is to retain only those speakers whose financial interests can be effectively resolved to maintain the goals and educational integrity of 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 relationship 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 coded, and can be found beginning on page 146 of this program.

COMMERCIAL SUPPORT DISCLOSURE STATEMENT

EDUCATIONAL GRANTS:

This activity is supported in part by educational grants from: Abbott Vascular, Actelion Pharmaceuticals US, Inc., Biosense Webster, Inc., Edwards Lifesciences, Lantheus Medical Imaging, Medtronic, Thoratec.

IN-KIND DONATIONS:

This activity is supported in part by in-kind donations from: GE Healthcare, Hitachi Aloka Medical, Philips Healthcare, Terasan, Toshiba American Medical Systems.

CONFERENCE OBJECTIVES

This program has been designed to allow attendees to get 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 and will demonstrate how and why they should be applied in your daily practice. **The goals of the conference are to provide:**

- » A comprehensive review of current equipment and state-of-the-art techniques in cardiac and vascular ultrasound for the assessment of patients with a variety of cardiovascular conditions.
- » An update of guidelines and recent advances in technology and research for the assessment of patients with cardiac and vascular disease.
- » A review of fundamental and advanced interpretation of cardiac and vascular ultrasound and the impact of echocardiographic imaging on patient care and outcomes.

- » Sessions that are appropriate for all levels of cardiac and vascular ultrasound professionals, including experts, intermediate learners, sonographers, fellows, and nurses.

After participating in this activity, attendees will be better able to:

- » Utilize cardiac and vascular ultrasound for the comprehensive assessment and management of cardiovascular diseases including, but not limited to: valvular heart disease, coronary artery disease, cardiomyopathies, pericardial disease, congenital heart disease, peripheral artery disease, and effects of systemic disease on the heart.
- » Incorporate new guideline recommendations into clinical practice.
- » Identify the limitations of cardiovascular ultrasound imaging and the role of multimodality imaging (nuclear imaging, CMR, CTA).
- » Recognize the recent advancements and future direction of cardiac and vascular ultrasound and the impact these advancements may have on patient care.
- » Integrate the latest technical developments into clinical practice.
- » Employ cardiac ultrasound in pre-procedural, intra-procedural, and post-procedural care of patients in the operating room and catheterization laboratory.
- » Delineate how the new changes in the healthcare delivery system affect the private and hospital-based practice of cardiology and cardiovascular imaging.
- » Improve quality and workflow in the echocardiography lab through practice-improvement measures.

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 through the joint providership of the American Society of Echocardiography and the American Society of Echocardiography Education and Research Foundation. The American Society of Echocardiography is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Echocardiography designates this live activity for a maximum of 32 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Medical Association has determined that non-US licensed physicians who participate in this educational activity are eligible for 32 *AMA PRA Category 1 Credits™*.

This activity has been approved for 15 (3 Points per day) British Society of Echocardiography (BSE) reaccreditation points.

Approved by the American College of Emergency Physicians for a maximum of 6.50 hour(s) of ACEP Category I credit.

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

All or a portion of this educational activity may meet the CME requirement for IAC Echocardiography accreditation.

The National Board of Echocardiography™ (NBE) requires 15 hours of echocardiography-specific CME for both ReASCE® and RePTE® recertification. This activity contains 32 *AMA PRA Category 1 Credits™* that can be used toward recertification requirements.



SCIENTIFIC PROGRAM TRACKS & KEY

CASE-BASED LEARNING **CL**

During these sessions, the practice of clinical echocardiography and its relationship to patient management will be highlighted and stressed by experts. These sessions will cover valvular heart disease, including challenges in quantitation, mechanisms of mitral regurgitation, and prosthetic valve dysfunction. Other topics covered include heart failure and cardiomyopathies, left ventricular assist devices, pericardial diseases, aortic disease, stress echocardiography, and the use of echocardiography in critically ill patients. This will be an excellent learning opportunity facilitated by the presentation of pertinent clinical cases to set the stage for specific questions related to imaging and management.

IMAGING ESSENTIALS **E**

This track will instruct practitioners on techniques of assessment and quantitation. There are disease-based sessions that will help you improve your skills in chamber quantification and imaging a variety of disease states. In addition, there are practical sessions on workflow and quality that you can incorporate into your lab when you return home.

PERIOPERATIVE **P**

This one-day track, held on Saturday, June 13, has been designed by the ASE Council on Perioperative Echocardiography to bring surgeons, anesthesiologists, echocardiographers, and sonographers together. These sessions will feature true multidisciplinary integration with interactive panel discussions and multimedia presentations including surgical videos that comprehensively explore current concepts in mitral valve disease, mechanical circulatory assist for heart failure, and perioperative echo in monitoring patients.

SYMPOSIA **S**

These sessions are daily tracks that concentrate on clinical use of cardiovascular ultrasound or indicate a special session that will be held in the plenary meeting room. Each symposium discusses a specific topic in detail and instructs you on how to apply state-of-the-art cardiovascular ultrasound techniques in clinical practice.

PEDIATRIC/CONGENITAL **PC**

The ASE Council on Pediatric and Congenital Heart Disease has put together a program that promises to be jam-packed with cutting-edge science, imaging pearls, and hands-on instruction to benefit everyone, whether you are a pediatric echocardiographer or just learning more about the care of patients living with congenital heart diseases as adults. The popular staples of the track return: Pediatric Echo Jeopardy, Fireside Chat, case presentations, and oral abstract sessions. We will unveil the mysteries of some of the newer echo technologies and see how expert care centers apply them in clinical practice.

RESEARCH **R**

Investigators will present the latest advances in cardiovascular ultrasound throughout the conference. Don't miss two special competitions designed to acknowledge exceptional research, the Sonographer Investigator's Award Competition on Sunday and the prestigious Arthur E. Weyman Young Investigator's Award Competition on Monday. Visit the Exhibit & Poster Hall to meet the investigators during dedicated poster viewing times, and attend the Scientific Sessions Wrap-Up on Tuesday for highlights from any science you may have missed.

VASCULAR **V**

ASE's Council on Vascular Ultrasound has put together a rich program that will provide the attendee with an excellent overview on vascular ultrasound topics of interest to the practicing cardiologist/ultrasound technologist. Topics such as carotid imaging will be covered from basics to advanced techniques. Additional state-of-the-art and cutting-edge technologies will also be covered in what promises to be an exciting session. You won't want to miss the special session on Friday, June 12, "Interactive Vascular Learning Lab."

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

ASE 2015 PROGRAM COMMITTEE



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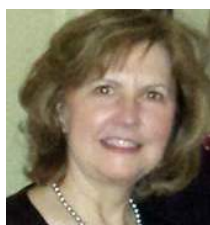
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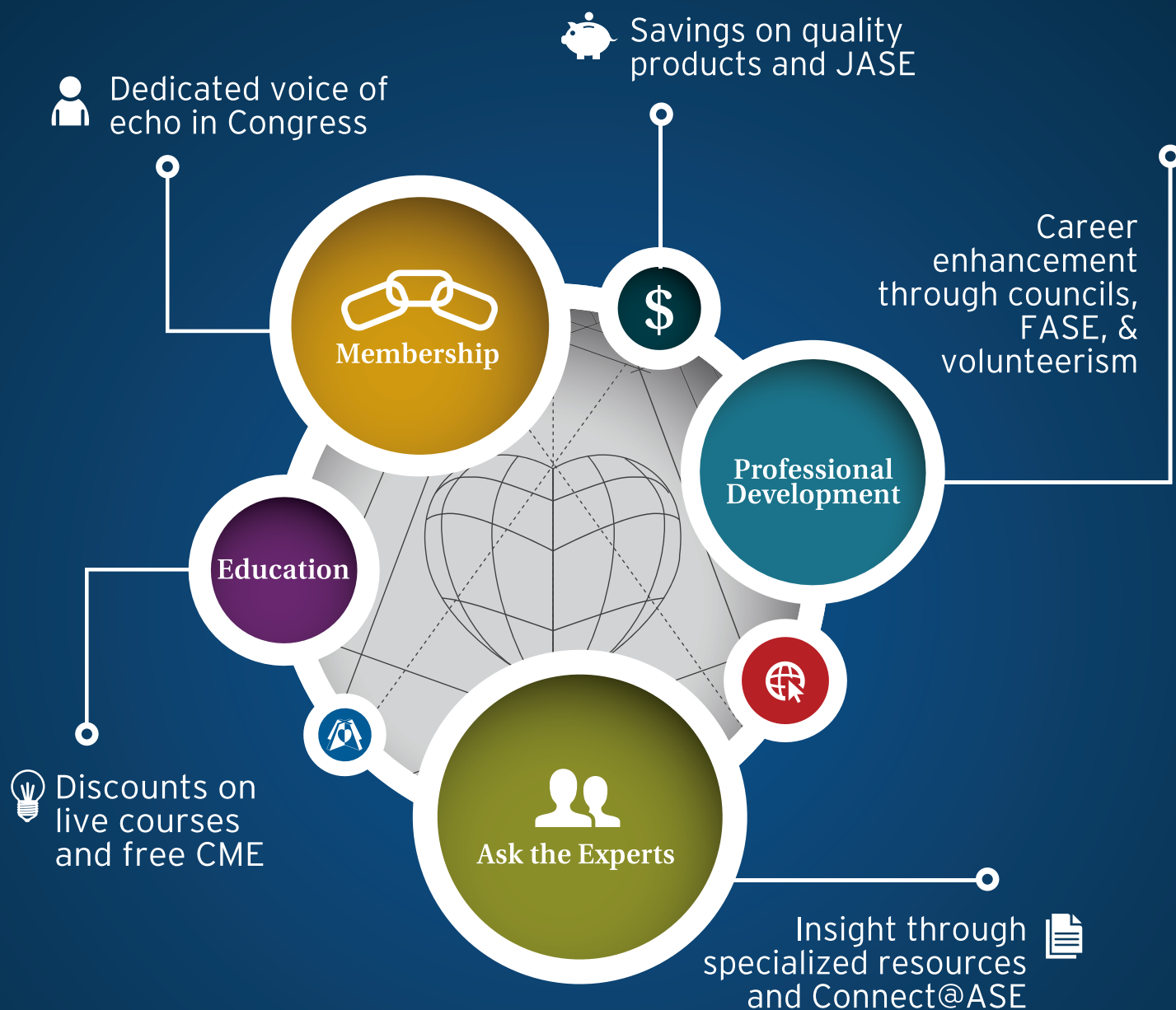
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FRIDAY, JUNE 12TH

REGISTRATION OPEN: 12:00 PM - 5:00 PM			
EXHIBIT & POSTER HALL CLOSED			
ROOMS	Ballroom A	Ballroom C	Room 304/6
1:30 - 3:00 PM	Maintenance of Certification by Case-based Echocardiography-Part I <i>This session requires separate registration.</i>	CL A Boston Tryst with Exceptional Ambiguities Party	S I ♥ Echo: Point of Care Echo <i>This session requires separate registration</i>
3:00 - 3:30 PM	BREAK		
3:30 - 5:00 PM	Maintenance of Certification by Case-based Echocardiography-Part II <i>This session requires separate registration.</i>	V Interactive Vascular Learning Lab	S I ♥ Echo: Point of Care Echo Hands-On <i>This session requires separate registration</i>


MEMORIALCARESM
 MEMORIAL HEALTH SERVICES

Expect the Extraordinary

At Long Beach Memorial Medical Center and Miller's Children's Hospitals, part of the MemorialCare Health System, we provide extraordinary healthcare to our community and an exceptional working environment for our employees. Long Beach Memorial Medical Center, a large acute-care teaching facility, and Miller's Children's Hospital, the second largest children's hospital in California, are two extraordinary hospitals sharing one campus. Miller's Children's is seeking pediatric sonographers to join its rapidly expanding, multi-faceted congenital cardiac program. The pediatric cardiac sonographers scan in the pediatric cardiac OR, NICU, PICU as well as the inpatient and outpatient settings. Long Beach Memorial is also seeking cardiac sonographers for the Memorial Heart and Vascular Institute's dynamic adult cardiac sonography team. The program is ICAEL certified.

Long Beach is located along the Pacific coastline about 25 miles south of Los Angeles, bordering Orange County. Long Beach boasts 345 days of sunshine per year with average temperatures in the 70's. The city is very proud of its outstanding, award winning schools.

We are seeking compassionate professionals who share our passion for providing outstanding care with empathy kindness and respect.

We are currently searching for a **Lead Pediatric Cardiac Sonographer**. We are also seeking Pediatric and Adult cardiac sonographers.
(Full time, part time and per diem)

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Congratulations to Dr. Steven A. Goldstein



MedStar Heart & Vascular Institute is proud to recognize Dr. Steven A. Goldstein, the 2015 recipient of the ASE Physician Lifetime Achievement Award. His significant contributions to the field of echocardiography have made a difference for countless patients, as well as the residents and fellows who have benefited from his long-standing commitment to education and research. We extend our sincere congratulations.



MedStar Heart &
Vascular Institute



Cleveland Clinic
Heart and Vascular Institute

1:30 PM - 3:00 PM

MOC Maintenance of Certification - Part I - Ballroom A
Pre-Registration is required for this two-part session.

Proctors: A. Labovitz, N. Pandian

1:30 PM - 3:00 PM

S I ♥ Echo: Point of Care Echo - Room 304/6
Pre-Registration is required for this two-part session.

Chairs: K. Spencer, V. Noble

1:30 PM - 2:00 PM

Why Ultrasound is Important in Medical Education
R. Hoppman

2:00 PM - 2:20 PM

Introduction to POC - The Basic Cardiac Views
J. Hoyler

2:20 PM - 2:40 PM

Focused Cardiac Ultrasound - What We Look For
M. Stone

2:40 PM - 3:00 PM

Cardiac Ultrasound Cases: Intro
B. Nelson

1:30 PM - 3:00 PM

CL A Boston Tryst with Exceptional Ambiguities Party
Ballroom C

Chairs: A. Poppas, D. Forst

1:30 PM - 1:50 PM

Case 1 *R. Wharton*

1:50 PM - 2:10 PM

Case 2 *P. Patil*

2:10 PM - 2:30 PM

Case 3 *I. Sebag*

2:30 PM - 2:50 PM

Case 4 *E. Gill*

2:50 PM - 3:00 PM

Question and Answer

3:30 PM - 5:00 PM

MOC Maintenance of Certification - Part II - Ballroom A
Pre-Registration is required for this two-part session.

Proctors: M. Saric, V. Rigolin, R. Stainback

3:30 PM - 5:00 PM

V Interactive Vascular Lab - Ballroom C

Chair: R. Benenstein

Speakers: A. Dillon, B. Fowler, M. Skoczylas

3:30 PM - 5:00 PM

S I ♥ Echo: Point of Care Echo Hands-On - Room 304/6

Case 1: Dyspnea *A. Liteplo*

Case 2: Trauma *J. Hoyler*

Case 3: Shock *L. Melniker*

Case 4: Chest Pain *C. Huang*

Case 5: PE *J. Rempell*

Case 6: Review *H. Kimberly*

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Sample Documents. IAC provides sample and guidance documents that facilities may download and customize to reflect their current practices.

Online Application. Our web-based application is specifically designed to be user-friendly and convenient with 24/7 access.

.....

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intersocietal.org/experience.

SATURDAY, JUNE 13TH

SCHEDULE AT A GLANCE

REGISTRATION OPEN: 6:00 AM – 6:30 PM						
EXHIBITS OPEN: 4:30 PM – 6:30 PM						
ROOM	Ballroom A	Ballroom B	Ballroom C	Room 302	Room 304/6	Room 312
7:00 - 7:50 AM	E Welcome to the ASE in Boston	CL Good Vibrations: Translating Physics to Improve Echo Quality	CL I Should Have Listened to Echo	CL “I Had Surgery When I Was a Kid:” Recognizing Repaired Congenital Heart Disease	CL Starting off with Strain: Case-based Learning	CL Echocardiography Cases: Evaluation of Stroke
8:00 - 9:30 AM	E Sonography Here and There	S Applying New ASE Guidelines to Practice	P Aortic Valve Surgery	S 3D for Structural Heart Disease Intervention	PC Path/Echo/Surgical Correlations Lesion I: Transposition of the Great Arteries	S You Don't See This Everyday: Case Studies in Systemic Disease
9:30 AM - 10:00 AM	BREAK					
10:00 - 11:30 AM	E The Echo Exam: How To Do It Correctly	S Diastology and Pericardial Disease: Core Concepts	P Thoracic Aortic Surgery <i>(Followed by the COPE Business Meeting and Awards Presentation)</i>	S Echo to Evaluate Circulatory Devices	PC Path/Echo/Surgical Correlation Lesion II: Congenital Mitral Valve Disorders	S Stress Echocardiography Fundamentals
11:30 AM - 1:00 PM	SCIENCE & TECHNOLOGY THEATRE: BRACCO DIAGNOSTICS, INC					
1:00 - 2:30 PM	E ASE Guidelines What's New / What's Different	S The Right Stuff! Echo for Assessment of Right Heart and Pulmonary Hypertension	P Mitral Repair for Complex Mitral Disease	S Echo to the Rescue	PC The Many Faces of Infarct and Ischemia in Pediatrics and Congenital Heart Disease	S The Heart of a Champion: Imaging an Athlete's Heart
2:30 PM - 3:00 PM	BREAK					
3:00 - 4:30 PM	E Adult Congenital - A Primer for Everyone!	S Innovations in Echo	P Mechanical Circulatory Assist: Imaging in Devices	S Echo in Dyssynchrony and CRT Optimization	PC Pediatric Echo Jeopardy <i>(Preceded by the Council Business Meeting and Awards Presentation)</i>	S Cardiac Involvement in Neoplastic Diseases
3:30 - 4:30 PM	EDUCATOR'S SUMMIT <i>Suite 300</i>					
4:30 - 6:30 PM	PRESIDENT'S RECEPTION IN THE EXHIBIT & POSTER HALL					
7:00 - 11:00 PM	ASE FOUNDATION'S 6TH ANNUAL RESEARCH AWARDS GALA <i>Requires Separate Registration</i>					

SATURDAY

For detailed information, please download the ASE Live Educational Courses app or visit asescientificsessions.org.

ASE Foundation wishes to thank our Table Captains for the 6th Annual Research Awards Gala



Edward Gill, MD, FASE*
Seattle, Washington



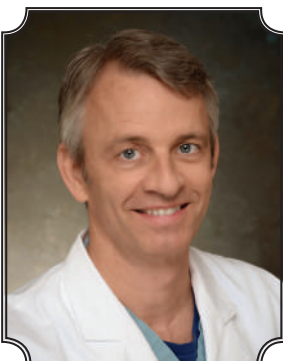
Rebecca Hahn, MD, FASE
New York, New York



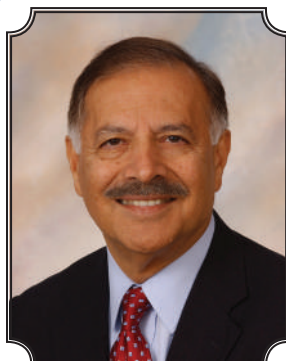
Vera Rigolin, MD, FASE
Chicago, Illinois



Geoffrey Rose, MD, FASE
Charlotte, North Carolina



Raymond Stainback, MD, FASE*
Houston, Texas



A. Jamil Tajik, MD, FASE
Aurora, Wisconsin



Neil Weissman, MD, FASE
Washington, DC



Susan Wiegers, MD, FASE
Philadelphia, Pennsylvania



Carolyn Altman, MD, FASE
on behalf of Texas Children's Hospital
Houston, Texas



Sanjiv Kaul, MD, FASE
on behalf of OHSU Knight Cardiovascular Institute
Portland, Oregon



Marti McCulloch, MBA, BS, RDCS, FASE
on behalf of SIEMENS
Malvern, Pennsylvania

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*Co-Captains

7:00 AM - 7:50 AM**E Welcome to the ASE in Boston - Ballroom A***Chairs: M. Bierig, J. Kreeger***7:00 AM - 7:10 AM**Welcome - Setting Goals for the Sessions *D. Agler***7:10 AM - 7:25 AM**

Navigating the Meeting - Getting the Most. What to Expect

*K. McGregor***7:25 AM - 7:40 AM**The ASE Website and Guidelines *K. Horton***7:40 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Good Vibrations: Translating Physics to Improve Echo Quality - Ballroom B***Chairs: J. Neary, H. Rakowski***7:00 AM - 7:15 AM**Understanding Echo Artifacts *C. Taub***7:15 AM - 7:30 AM**Machine Settings for Contrast *J. Odabashian***7:30 AM - 7:45 AM**3D Acquisition Pitfalls *W. Tsang***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL I Should Have Listened to Echo - Ballroom C***Chairs: O. Khalique, B. Khandheria***7:00 AM - 7:15 AM**...In the Cath Lab *N. Hamid***7:15 AM - 7:30 AM**...In the OR *N. Skubas, L. Rong***7:30 AM - 7:45 AM**...In the ICU *K. Schwartz***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL "I Had Surgery When I Was A Kid:" Recognizing Repaired Congenital Heart Disease - Room 302***Chairs: C. Sable, D. Defaria-Yeh***7:00 AM - 7:15 AM**Case 1: Double Outlet RV *R. Garg***7:15 AM - 7:30 AM**Case 2: Atrial Switch *G. Lui***7:30 AM - 7:45 AM**Case 3: Single Ventricle/Fontan *S. Phillips***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Starting off with Strain: Case-Based Learning Room 304/306***Chairs: L. Mertens, T. Tacy***7:00 AM - 7:15 AM**Case 1: Early LV Dysfunction *A. Sanchez-Mejia***7:15 AM - 7:30 AM**Case 2: RV Dysfunction *P. Jone***7:30 AM - 7:45 AM**Case 3: Single V *D. Forsha***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Echocardiography Cases: Evaluation of Stroke Room 312***Chairs: W. Jaber, S. Kort***7:00 AM - 7:15 AM**Case 1: Atrial Fibrillation *W. Katz, B. Tayal***7:15 AM - 7:30 AM**Case 2: Papillary Fibroelastoma *K. Klarich, J. Thaden***7:30 AM - 7:45 AM**Case 3: Aortic Atheroma *I. Kronzon***7:45 AM - 7:50 AM**

Question and Answer

8:00 AM - 9:30 AM**E Sonography Here and There - Ballroom A***Chairs: K. Horton, G. Bhogal***8:00 AM - 8:15 AM**Update from the Sonographer Council *E. McIlwain***8:15 AM - 8:30 AM**Presentation of Sonographer Awards and Grants *P. Coon***8:30 AM - 8:45 AM**Volunteering at Home and Abroad *J. Neary***8:45 AM - 9:00 AM**Out of Africa *J. Cleve***9:00 AM - 9:15 AM**Echo in India *A. Venkateshvaran***9:15 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**S Applying New ASE Guidelines to Practice - Ballroom B***Chairs: F. Asch, S. Wiegars***8:00 AM - 8:15 AM**

Multimodality Imaging in Patients Receiving Cancer Therapies

J. Plana

SATURDAY, JUNE 13TH**8:15 AM - 8:30 AM**Chamber Quantification Update *R. Lang***8:30 AM - 8:45 AM**Multimodality Imaging in Thoracic Aortic Diseases *S. Goldstein***8:45 AM - 9:00 AM**Echo in Critically Ill Patients *T. Porter***9:00 AM - 9:15 AM**Echo in Patients with Hypertension *T. Marwick***9:15 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**P Aortic Valve Surgery - Ballroom C***Chairs: M. Swaminathan, R. Sniecinski***8:00 AM - 8:05 AM**Case Presentation: Mixed Aortic Stenosis and Regurgitation
Preoperative Workup *A. Nicoara***8:05 AM - 8:20 AM**Surgical Treatment Options *B. Taylor***8:20 AM - 8:35 AM**Intraoperative Imaging: Hemodynamic Issues and Assessment
of Severity *S. Shernan***8:35 AM - 8:50 AM**Outcomes Following AVR: How Much Do Gradients Matter?
*R. Hahn***8:50 AM - 9:00 AM**Case: Unexpected Findings That Can Change Management
*A. Nicoara***9:00 AM - 9:10 AM**Case: Intraoperative Assessment of Newly Seated Aortic Valve
Prostheses *K. Rehfeldt***9:10 AM - 9:20 AM**Case: Immediate Complications of AVR *K. Glas***9:20 AM - 9:30 AM**

Moderated Panel Discussion

8:00 AM - 9:30 AM**S 3D for Structural Heart Disease Interventions**
Room 302*Chairs: Z. Wang, D. Rubenson***8:00 AM - 8:20 AM**Case: 3D Imaging to the Rescue *J. Passeri***8:20 AM - 8:40 AM**Essential Role of 3D for Transcatheter Mitral Repair *F. Faletra***8:40 AM - 9:00 AM**3D for TAVR: Luxury or Necessity? *M. Monaghan***9:00 AM - 9:20 AM**Transcatheter Tricuspid Repair: Relying on 3D *R. Hahn***9:20 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**PC Path/Echo/Surgical Correlations Lesion I:**
Transposition of the Great Arteries - Room 304/306
*Chairs: C. McMahon, G. Ensing***8:00 AM - 8:20 AM**Pathology *S. Sanders***8:20 AM - 8:40 AM**Fetal and Neonatal Echocardiography *L. Young***8:40 AM - 9:00 AM**Surgery *C. Fraser***9:00 AM - 9:20 AM**Post-surgical Imaging- From OR to Clinic *J. Lu***9:20 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**S You Don't See This Everyday: Case Studies in**
Systemic Disease - Room 312*Chairs: R. Ronderos, K. Klarich***8:00 AM - 8:15 AM**Infiltrative Heart Disease Part I: Hemochromatosis and
Sarcoidosis *J. Mohan***8:15 AM - 8:30 AM**Infiltrative Heart Disease Part II: Amyloidosis *M. Grogan***8:30 AM - 8:45 AM**Echo Manifestations of Systemic Lupus Erythematosus *R. Mankad***8:45 AM - 9:00 AM**Carcinoid Heart Disease *N. Nanda***9:00 AM - 9:15 AM**Changes and Eosinophilic Myocarditis *R. Marcus***9:15 AM - 9:30 AM**

Question and Answer

10:00 AM - 11:30 AM**E The Echo Exam - How to Do It Correctly? - Ballroom A**
*Chairs: P. Knoll, C. Kramer***10:00 AM - 10:15 AM**Are You Meeting the Standards? *M. Bremer***10:15 AM - 10:30 AM**Non-Standard Views - When and Where *J. Marshall***10:30 AM - 10:45 AM**Artifacts - Is It Real? *R. Palma***10:45 AM - 11:00 AM**Contrast Will Save Your Study! *C. Mitchell***11:00 AM - 11:15 AM**Hemodynamics - How BP Affects What You See *E. Velazquez***11:15 AM - 11:30 AM**

Question and Answer

10:00 AM - 11:30 AM

S **Diastology and Pericardial Disease: Core Concepts**
Ballroom B

Chairs: A. Klein, G. Aurigemma

10:00 AM - 10:15 AM

Diastology Essentials: What You Need to Know *S. Nagueh*

10:15 AM - 10:30 AM

The Silent Epidemic: Diastolic Function and Clinical Outcome
S. Lester

10:30 AM - 10:45 AM

Advanced Diastolic Function Assessment: Pulmonary Veins,
Timing Intervals, and Beyond *M. Quiñones*

10:45 AM - 11:00 AM

Stumbling Blocks in Assessment of Diastolic Dysfunction
S. Solomon

11:00 AM - 11:15 AM

“Confusive” Pericardial Disease: From Tamponade to
Constriction *C. Appleton*

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:45 AM

P **Thoracic Aortic Surgery** - Ballroom C
Chairs: J. Shanewise, M. Taylor

10:00 AM - 10:05 AM

Case: Preop TTE and Hemodynamic Data *J. Shanewise*

10:05 AM - 10:20 AM

Treatment Options for Root Disease: Including 3-4 Different
Approaches *T. Sundt*

10:20 AM - 10:35 AM

Intraoperative Imaging in Aortic Surgery *R. Sniecinski*

10:35 AM - 10:50 AM

Outcomes Following Aortic Root Surgery: What to Look for on
Follow Up *E. Isselbacher*

10:50 AM - 11:00 AM

Case: Unexpected Findings That Can Change Management
G. Mackensen

11:00 AM - 11:10 AM

Case: Complications in Aortic Surgery – When Things Go
Wrong in the Operating Room *F. Mammood*

11:10 AM - 11:20 AM

Case: Dealing with Immediate Complications of Aortic Surgery/
Innovative Solutions in Aortic Surgery *T. Sundt*

11:20 AM - 11:30 AM

Question and Answer

11:30 AM - 11:45 AM

COPE Business Meeting and Awards (Non-CME)
S. Swaminathan

10:00 AM - 11:30 AM

S **Echo to Evaluate Circulatory Devices** - Room 302
Chair: J. Walker

10:00 AM - 10:15 AM

Current Devices and Physiology of VAD Therapy *R. Stainback*

10:15 AM - 10:30 AM

Fundamentals of the Echo Exam for VAD Assessment *Y. Topilsky*

10:30 AM - 10:45 AM

LVAD Dysfunction *K. Schwartz*

10:45 AM - 11:00 AM

When is a RAMP Necessary? *J. Kirkpatrick*

11:00 AM - 11:15 AM

Temporary Circulatory Support Devices *D. Orsinelli*

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

PC **Path/Echo/Surgical Correlation Lesion II:**
Congenital Mitral Valve Disorders - Room 304/306
Chairs: M. Puchalski, N. Ayres

10:00 AM - 10:20 AM

Pathology *S. Sanders*

10:20 AM - 10:40 AM

Preoperative and Fetal Echo Essentials *E. Michelfelder*

10:40 AM - 11:00 AM

Surgical *P. DelNido*

11:00 AM - 11:20 AM

Post Surgical Imaging - TEE/TTE/MR *J. Marek*

11:20 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

S **Stress Echocardiography Fundamentals** - Room 312
Chairs: N. Burkule, T. Ryan

10:00 AM - 10:15 AM

Stress Echo Overview: Coronary Anatomy, the Ischemic
Cascade and Myocardial Distribution *S. Sawada*

10:15 AM - 10:30 AM

Exercise Echo in CAD: The Basics *J. Neary*

10:30 AM - 10:45 AM

Pharmacologic Stress Echo in CAD: The Basics *W. Katz*

10:45 AM - 11:00 AM

Exercise Stress Echo in Structural Heart Disease *L. Gilliam*

11:00 AM - 11:15 AM

Pharmacologic Stress Echo in Structural Heart Disease *S. Heinle*

11:15 AM - 11:30 AM

Question and Answer

SATURDAY, JUNE 13TH**1:00 PM - 2:30 PM**

E ASE Guidelines: What's New / What's Different
Ballroom A

Chairs: E. McIlwain, B. Byrd

1:00 PM - 1:15 PM

Chamber Quantification: In 2015 *P. Peters*

1:15 PM - 1:30 PM

Right Ventricular Dimensions and Volumes *L. Hua*

1:30 PM - 1:45 PM

Diastolic Guidelines: When Patients Don't Fit the Box *C. Kramer*

1:45 PM - 2:00 PM

Cardio-Oncology *J. DeCara*

2:00 PM - 2:15 PM

Contrast for the Sonographer *J. Belcik*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

S The Right Stuff! Echo for Assessment of Right Heart and Pulmonary HTN - Ballroom B

Chairs: D. Sanborn, L. Gillam

1:00 PM - 1:15 PM

Bread and Butter: Assessment of Right Heart Function *J. Aragam*

1:15 PM - 1:30 PM

One Step Further: Assessment of Pulmonary Hemodynamics
N. Schiller

1:30 PM - 1:45 PM

Echo in Assessment of Tricuspid and Pulmonary Valves: The Forgotten Valves *L. Badano*

1:45 PM - 2:00 PM

What's New: Advanced Echo Techniques for Assessment of Right Heart Function *G. Kane*

2:00 PM - 2:15 PM

Multimodality Imaging of the Right Heart: Putting it All Together *J. Cavalcante*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

P Mitral Repair for Complex Mitral Disease - Ballroom C
Chairs: A. Finely, J. Walker

1:00 PM - 1:05 PM

Case Presentation-Complex MR: Preoperative Workup
K. Zimmerman

1:05 PM - 1:20 PM

Intraoperative Imaging in Mitral Regurgitation - How 3D Can Help *D. Shook*

1:20 PM - 1:35 PM

Valve Repair Options – What Technique and When *B. Taylor*

1:35 PM - 1:50 PM

Impact of Co-Existing Valve Disease During Mitral Surgery
L. Rodriguez

1:50 PM - 2:05 PM

Challenges in Rheumatic Mitral Repair: How TEE Helps
B. Taylor

2:05 PM - 2:20 PM

Cases: Complications in Mitral Valve Surgery *K. Rehfeldt*

2:20 PM - 2:30 PM

Moderated Panel Discussion

1:00 PM - 2:30 PM

S Echo to the Rescue - Room 302

Chair: V. Noble

1:00 PM - 1:15 PM

Focused Echocardiography in Cardiac Emergencies *C. Raio*

1:15 PM - 1:30 PM

Echo Guided Volume Resuscitation *A. Liteplo*

1:30 PM - 1:45 PM

TEE in the Critically Ill Patient *M. Taylor*

1:45 PM - 2:00 PM

Ultrasound Guided Critical Care Procedures *M. Stone*

2:00 PM - 2:15 PM

ECHO in ECMO *A. Nicoara*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

PC The Many Faces of Infarct and Ischemia in Pediatrics and Congenital Heart Disease - Room 304/306

Chairs: M. Lewin, S. Denfield

1:00 PM - 1:20 PM

Congenital Coronary Anomalies - Isolated *P. Frommelt*

1:20 PM - 1:40 PM

Kawasaki Disease *K. Friedman*

1:40 PM - 2:00 PM

Inflammatory/Infectious: Viral Myocarditis, Lupus, Hyperlipidemia, etc. *M. Frommelt*

2:00 PM - 2:20 PM

Pediatric Cardiac Transplant *S. Denfield*

2:20 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

S The Heart of a Champion: Imaging an Athlete's Heart
Room 312

Chairs: M. Wood, T. Edvardsen

1:00 PM - 1:15 PM

Screening Echocardiogram for Elite Athletes?

1:15 PM - 1:30 PM

How the Heart Adapts to Athletic Training *A. Baggish*

1:30 PM - 1:45 PM

Athlete's Heart: How to Differentiate from HCM by Echocardiography *R. Weiner*

1:45 PM - 2:00 PM

Athlete's Heart vs Cardiomyopathy: What Does Strain Imaging Teach Us? *T. Edvardsen*

2:00 PM - 2:15 PM

When Right Goes Wrong, What About the RV in Athletes? *L. Rudski*

2:15 PM - 2:30 PM

Question and Answer

3:00 PM - 4:30 PM

E Adult Congenital - A Primer for Everyone! Ballroom A

Chairs: A. Valente, P. Coon

3:00 PM - 3:20 PM

Approaching the ACHD Patient *J. Kreeger*

3:20 PM - 3:40 PM

Tetralogy of Fallot Repair *M. Wasserman*

3:40 PM - 3:55 PM

Finding Fontan *R. Lindquist*

3:55 PM - 4:15 PM

Putting it All Together *D. Defaria-Yeh*

4:15 PM - 4:30 PM

Question and Answer

3:00 PM - 4:30 PM

S Innovations in Echo - Ballroom B

Chairs: V. Mor-Avi, Z. Popovic

3:00 PM - 3:15 PM

New Ways of Listening *K. Thomenius*

3:15 PM - 3:30 PM

New Ways of Treating (Therapeutics) *T. Porter*

3:30 PM - 3:45 PM

New Ways of Analyzing (Post-Processing/ LV Analysis) *M. Belohlavek*

3:45 PM - 4:00 PM

New Ways of Communicating: Telemedicine/Web-Based *P. Sengupta*

4:00 PM - 4:15 PM

A Vision of Echo in 2030 *R. Sicari*

4:15 PM - 4:30 PM

Question and Answer

3:00 PM - 4:30 PM

P Mechanical Circulatory Assist: Imaging in Devices Ballroom C

Chairs: G. Mackensen, B. Taylor

3:00 PM - 3:05 PM

Case Presentation - Heart Failure: Preoperative Imaging *S. Minter*

3:05 PM - 3:20 PM

Surgical Approaches in Heart Failure - Device Options *B. Taylor*

3:20 PM - 3:35 PM

Intraoperative Imaging in VADs: What to Look for Before and After Device Placement *S. Shillcutt*

3:35 PM - 3:50 PM

Percutaneous VADs: When Imaging is Essential *M. Picard*

3:50 PM - 4:00 PM

Case: Immediate Complications After VAD Placement *S. Shillcutt*

4:00 PM - 4:10 PM

Case: Imaging Challenges in Right Heart Failure *N. Skubas*

4:10 PM - 4:20 PM

Case: Postop Imaging in Patients with Devices *A. Dillenbeck*

4:20 PM - 4:30 PM

Moderated Panel Discussion

3:00 PM - 4:30 PM

S Echo in Dyssynchrony and CRT Optimization Room 302

Chairs: P. Sogaard, R. Grimm

3:00 PM - 3:15 PM

Clinical and Physiologic Impact of Dyssynchrony *O. Smiseth*

3:15 PM - 3:30 PM

What is the Current Role for Echo in Patient Selection? *G. Derumeaux*

3:30 PM - 3:45 PM

Optimizing Atrio-Ventricular Timing *T. Naqvi*

3:45 PM - 4:00 PM

When Should Pacing be Turned Off? Managing Non-Responders *R. Grimm*

4:00 PM - 4:15 PM

Role in Lead Placement: Targeting Electrical Mechanical Coupling *J. Gorscan*

4:15 PM - 4:30 PM

Question and Answer

3:00 PM - 3:30 PM

PC Council Meeting Pediatric and Congenital Heart Disease and Awards Presentation (Non-CME) - Room 304/306

Chair: L. Lopez

Founders' Award: H. Allen

3:30 PM - 4:30 PM

PC Pediatric Echo Jeopardy - Room 304/306

Chairs: M. Brook, D. Harrild

3:30 PM - 4:30 PM

TEAM 1

J. Kovalchin, R. Garg

TEAM 2

S. Natarajan, M. DiMaria

TEAM 3

C. McMahon, O. Miller

TEAM 4

G. Tatum, M. Carr

3:00 PM - 4:30 PM

S Cardiac Involvement in Neoplastic Diseases
Room 312

Chairs: J. Plana, M. Galderisi

3:00 PM - 3:15 PM

Oncologists: What Do They Need? *M. Galderisi*

3:15 PM - 3:30 PM

Mechanisms of Cardiotoxicity: How Understanding Them
Helps Management *J. Moslehi*

3:30 PM - 3:45 PM

Setting Up Your Cardio-Oncology Lab *J. Liu*

3:45 PM - 4:00 PM

The Science Behind the Guidelines *M. Scherrer-Crosbie*

4:00 PM - 4:15 PM

Off-Target Effects of Radiotherapy *I. Sebag*

4:15 PM - 4:30 PM

Question and Answer

3:30 PM - 4:30 PM

Educator's Summit - Room 203



ASE proudly recognizes our International Alliance
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American Society of Echocardiography

President: Dr. Neil J. Weissman

Asian-Pacific Association of Echocardiography (AAE)

President: Dr. Jae K. Oh

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For more information about our International Alliance Partners and
the partnership program, please visit www.asecho.org/alliance

SUNDAY, JUNE 14TH

SCHEDULE AT A GLANCE

REGISTRATION OPEN: 6:30 AM – 6:00 PM						
EXHIBITS OPEN: 9:00 AM – 4:00 PM						
ROOM	Ballroom A	Ballroom B	Ballroom C	Room 302	Room 304/6	Room 312
7:00 - 7:50 AM	E Improving Your LAB Through CQI		CL Where Strain Adds Value	CL Echo in Acute Myocardial Infarction	CL PC Pediatric Council: Case-based Learning	CL Toil and Troubles? Not with Bubbles!
8:00 - 9:30 AM	S ASE AWARDS PRESENTATIONS, ANNOUNCEMENTS AND 26TH ANNUAL EDLER LECTURE <i>Ballroom B</i>					
9:30 - 10:15 AM	BREAK AND VISIT EXHIBITS					
10:15 - 11:45 AM	E The Aortic Valve Inside and Out	S Getting Your Echo MBA: Mastering the Business of Echo	S Echo in Subclinical Disease	S Adult Congenital Heart Disease: Common Clinical Concerns	PC Emerging Technologies in Imaging Congenital Heart Disease	S Jumpin' Jack Flash, It's a Gas (Bubble)
11:45 AM - 1:15 PM	SCIENCE & TECHNOLOGY THEATRE: LANTHEUS MEDICAL IMAGING					
12:00 - 1 PM	SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION <i>Exhibit & Poster Hall</i>					
1:15 - 2:45 PM	E Cardiac Mechanics: Tools for the Heart	S Assessment of Aortic Stenosis	S To Boldly Go... Enterprising Applications of Stress Echo	S LV Mechanics: Physiology and Applications <i>(Joint ASE/EACVI Session)</i>	PC TEE in Pediatric and Congenital Heart Disease	S Stress Echo: Read with the Experts
2:45 - 3:30 PM	BREAK AND VISIT EXHIBITS					
3:30 - 5:00 PM	E How the Experts Do It: Sonographer/Cardiologist Team	S Inspiring Health Care in Developing Countries	S Echo and Technology: Toward a More Perfect Union	CL Case Competition 2015	PC S ACHD: Focus on Tetralogy of Fallot	S Interventional Echocardiography
5:00 - 6:00 PM	MEMBER RECEPTION <i>Boylston Hallway</i>					
6:00 - 8:00 PM	ASE FOUNDATION'S HEELING HEARTS SCAVENGER HUNT <i>This event requires separate registration. Proceeds benefit the Foundation's charitable activities.</i>					

SUNDAY

For detailed information, please download the ASE Live Educational Courses app or visit asescientificsessions.org.



ASE Foundation

at the

2015 SCIENTIFIC SESSIONS



THE **6th**
Annual
ASE FOUNDATION
RESEARCH AWARDS GALA
SATURDAY, JUNE 13, 2015
THE FAIRMONT COPLEY PLACE
138 ST. JAMES AVENUE / BOSTON, MA

**Revolutionizing Research by
Raising Funding Support for
Cardiovascular Investigators**

the ase foundation presents
HEELING HEARTS
SCAVENGER HUNT
*making strides toward
cardiovascular health*



The ASE Foundation thanks **Lantheus Medical Imaging, Inc.** and Siemens Healthcare for their support of this event.

You can register in the days leading up to the event at the Foundation Booth or Registration Desk at the Hynes Convention Center, while supplies last.

Questions? Contact Foundation Coordinator, Kristen Pate, at 919-297-7169 or kpate@asecho.org.

- ♥ **WHAT:** A one-of-a-kind philanthropic team-building event to encourage Scientific Sessions attendees to explore the historic diversity and magnificence of Boston. The Scavenger Hunt concludes with an After-Party and awards reception.
- ♥ **WHERE:** **Starting Location:** The Hynes Convention Center
Ending Location: Dillons Restaurant & Bar
- ♥ **WHEN:** 6 pm - 8 pm on Sunday, June 14; After-Party begins at 8 pm and concludes at 10 pm

SUNDAY

7:00 AM - 7:50 AM**E Improving Your LAB Through CQI** - Ballroom A*Chairs: R. Palma, Z. Samad***7:00 AM - 7:15 AM**IAC Controversies *M. Roberts***7:15 AM - 7:30 AM**Applying QA in your LAB *S. Phillip***7:30 AM - 7:45 AM**Echo Lab Pressures: Quantity vs. Quality? *H. Carron***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Where Strain Adds Value** - Ballroom C*Chairs: J. Liu, M. Belohlavek***7:00 AM - 7:15 AM**Case 1: Valvular Disease *M. Clavel***7:15 AM - 7:30 AM**Case 2: Infiltrative Disease *S. Heitner***7:30 AM - 7:45 AM**Case 3: Subclinical Disease *L. Ernande***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Echo in Acute Myocardial Infarction** - Room 302*Chairs: D. Orsinelli, S. Kort***7:00 AM - 7:15 AM**Case 1: Pap Muscle Rupture *R. Hahn, O. Khalique***7:15 AM - 7:30 AM**Case 2: VSD or RV Infarct *M. Picard, E. Teo***7:30 AM - 7:45 AM**Case 3: Apical MI SAM *N. Pandian, M. Esposito***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL PC Pediatric Council: Case Based Learning**

Room 304/306

*Chairs: I. Parness, G. Kung***7:00 AM - 7:15 AM**C1-01: Use of 3-Dimensional Transesophageal Echocardiography in a Case of Traumatic Tricuspid Regurgitation *E. Scheller McLaughlin***7:15 AM - 7:30 AM**C1-02: Ruptured Right Coronary Sinus of Valsalva Aneurysm in an Infant *D.J. Steflik***7:30 AM - 7:45 AM**C1-03: A Novel Case of Double Outlet Left Ventricle with Intact Ventricular Septum *C. Tracy***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL Toil and Troubles? Not with Bubbles!** - Room 312*Chairs: N. Burkule, K. Schwarz***7:00 AM - 7:15 AM**Case 1: LVO Discovery *R. Senior***7:15 AM - 7:30 AM**Case 2: Perfusion Puzzle *T. Porter***7:30 AM - 7:45 AM**Case 3: Is That Real? *J. Aragam***7:45 AM - 7:50 AM**

Question and Answer

8:00 AM - 9:30 AM**S ASE Awards Presentations, Announcements and 26th Annual Edler Lecture** - Ballroom B**8:00 AM - 8:10 AM**Welcome, Announcements, and Board of Directors Induction
*N. Weissman***8:10 AM - 8:20 AM**State of the ASE *N. Weissman***8:20 AM - 8:30 AM**Incoming President's Address *S. Wieggers***8:30 AM - 8:50 AM**Edler Lecture *P. O'Gara***8:50 AM - 9:30 AM**Awards Presentations and other Society Recognitions *N. Weissman***10:15 AM - 11:45 AM****E The Aortic Valve Inside and Out** - Ballroom A*Chairs: A. Flinn, A. Davis***10:15 AM - 10:30 AM**Aortic Anatomy *A. Pellett***10:30 AM - 10:45 AM**Step By Step Approach to Assessing Aortic Regurgitation
*P. Burgess***10:45 AM - 11:00 AM**Step By Step Approach to Assessing Aortic Stenosis *M. Park***11:00 AM - 11:15 AM**Stressing the Aortic Valve *M. Clavel***11:15 AM - 11:30 AM**Thoracic Aorta Guidelines *B. Kane***11:30 AM - 11:45 AM**

Question and Answer

SUNDAY, JUNE 14TH

10:15 AM - 11:45 AM

S **Getting Your Echo MBA: Mastering the Business of Echo** - Ballroom B

Chairs: T. Ryan, M. Picard

10:15 AM - 10:30 AM

Echo and Value-Based Cardiac Care: Why Echo is the Best Tool for the Job *S. Wieggers*

10:30 AM - 10:45 AM

Getting the Goods for Benchmarking Productivity in Your Lab *M. Bremer*

10:45 AM - 11:00 AM

Will Your Echo Lab be a Profit Center or Cost Center?
Forecasting Echo Reimbursement *M. Main*

11:00 AM - 11:15 AM

Value-Based Care: What It Means and Why We Need It *T. Ferris*

11:15 AM - 11:30 AM

Your Elevator Speech: 60 Seconds to Teach Your CFO and COO about Echo *G. Rose*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Echo in Subclinical Disease** - Ballroom C

Chairs: J. Perez, L. Ernande

10:15 AM - 10:30 AM

Subclinical Atherosclerosis *T. Naqvi*

10:30 AM - 10:45 AM

The Diabetic Heart *G. Derumeaux*

10:45 AM - 11:00 AM

The Athlete's Heart *M. Wood*

11:00 AM - 11:15 AM

Hypertension and Ventricular Hypertrophy *D. Phelan*

11:15 AM - 11:30 AM

Role of Molecular Imaging in Subclinical Disease *J. Lindner*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Adult Congenital Heart Disease: Common Clinical Concerns** - Room 302

Chairs: N. Ayres, W. Lai

10:15 AM - 10:30 AM

I Thought it Was Only a Murmur (Unrepaired Simple ACHD) *H. Ko*

10:30 AM - 10:45 AM

My Heart is Backwards *M. King*

10:45 AM - 11:00 AM

When is Echo Not Enough? (CMR/CT) *T. Slesnick*

11:00 AM - 11:15 AM

When Is It Time for Re-Intervention? *W. Lai*

11:15 AM - 11:30 AM

Oh No, You're Pregnant! *M. Grogan*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

PC **Emerging Technologies in Imaging Congenital Heart Disease: (Joint ASE/EACVI Session)** - Room 304/306

Chairs: B. Eidem, S. Kutty

10:15 AM - 10:30 AM

Computational Modeling: New 3D Representation Techniques
P. Sengupta

10:30 AM - 10:45 AM

High Frequency Imaging from Animals to Humans
M. Scherrer-Crosbie

10:45 AM - 11:00 AM

Going with the Flow: Advances in Flow and Vortex Imaging
G. Pedrizzetti

11:00 AM - 11:15 AM

Advanced Myocardial Deformation Imaging: 3D Strain, Etc.
J. D'Hooge

11:15 AM - 11:30 AM

Adjuncts to Echo - Advances in MR/CT *A. Powell*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Jumpin Jack Flash, It's a Gas (Bubble)** - Room 312

Chairs: B. Davidson, M. Main

10:15 AM - 10:30 AM

Principles and Innovations in Bubbles *F. Villanueva*

10:30 AM - 10:45 AM

Contrast Guidelines *S. Mulvagh*

10:45 AM - 11:00 AM

Niche LVO- New Applications *R. Senior*

11:00 AM - 11:15 AM

Flow-Function Relationship: Relevance in Stress and Contrast Applications *B. Davidson*

11:15 AM - 11:30 AM

Contrast of the Future: Optimizing Contrast for New Applications *S. Kaul*

11:30 AM - 11:45 AM

Question and Answer

1:15 PM - 2:45 PM

E **Cardiac Mechanics: Tools For the Heart** - Ballroom A
Chairs: A. Armour, J. Gorscan

1:15 PM - 1:30 PM

Introduction to Strain: What Do the Wiggles Mean? *B. Haluska*

1:30 PM - 1:45 PM

Strain: It's All in The Patterns *A. Davis*

1:45 PM - 2:00 PM

Incorporating LV Mechanics Into a Routine Examination
A. Dillenbeck

2:00 PM - 2:15 PM

Looking at the RV *J. Rivero*

2:15 PM - 2:30 PM

3D for Cardiac Mechanics *R. Meece*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S **Assessment of Aortic Stenosis** - Ballroom B

Chairs: G. Habib, P. Pibarot

1:15 PM - 1:30 PM

Overview/Perspective *D. Rubenson*

1:30 PM - 1:45 PM

Echo/Doppler Evaluation *K. Koulogiannis*

1:45 PM - 2:00 PM

Low Gradient Aortic Stenosis *I. Burwash*

2:00 PM - 2:15 PM

When Conventional Echo is Not Enough *V. Sorrell*

2:15 PM - 2:30 PM

The Role of Strain in the Evaluation of AS *T. Marwick*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S **To Boldly Go...Enterprising Applications of Stress Echo** - Ballroom C

Chairs: J. Lindner, R. Mankad

1:15 PM - 1:30 PM

Stress Echo in the Assessment of Pulmonary Hypertension
G. Kane

1:30 PM - 1:45 PM

Contrast Perfusion: The Time is Now *B. Davidson*

1:45 PM - 2:00 PM

3D Stress Echo: Pearls and Pitfalls *R. Sicari*

2:00 PM - 2:15 PM

The Next Generation: Coronary Flow Reserve *J. Lowenstein*

2:15 PM - 2:30 PM

The Final Frontier: Assessment of Myocardial Strain in Ischemic Heart Disease *S. Sawada*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S **LV Mechanics: Physiology and Applications - (Joint EACVI/ASE Session)** - Room 302

Chairs: G. Derumeaux, J. Thomas

1:15 PM - 1:30 PM

The Basics of Mechanics- Contraction *O. Smiseth*

1:30 PM - 1:45 PM

Strain in Congenital Heart Disease *L. Mertens*

1:45 PM - 2:00 PM

Strain in Valvular Heart Disease *P. Lancellotti*

2:00 PM - 2:15 PM

Diastolic Mechanics: Relaxation vs. Compliance *Z. Popovic*

2:15 PM - 2:30 PM

Strain for Subclinical Disease Detection: How Does it Modify Clinical Practice? *T. Abraham*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

PC **TEE in Pediatric and Congenital Heart Disease**
Room 304/306

Chairs: W. Miller-Hance, D. Roberson

1:15 PM - 1:30 PM

The Comprehensive TEE EXAM: What IAC DEMANDS!
C. Fleishman

1:30 PM - 1:45 PM

"Children Are Not Little Adults" - Valuable TEE Pointers in Congenital Heart Disease *W. Miller-Hance*

1:45 PM - 2:00 PM

TEE in the Cath Lab *L. Mercer Rosa*

2:00 PM - 2:15 PM

Can I Give Protamine Yet? *P. Wong*

2:15 PM - 2:30 PM

Applications of 3D TEE *G. Marx*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S **Stress Echo: Read with the Experts** - Room 312

Chairs: J. Gardin, P. Pellikka

1:15 PM - 1:30 PM

LBBB and Value of Strain Imaging *E. Donal*

1:30 PM - 1:45 PM

Multivessel Disease *T. Ryan*

1:45 PM - 2:00 PM

Dobutamine Stress Echo for Viability *P. Nihoyannopoulos*

2:00 PM - 2:15 PM

Stress Echo in Aortic Stenosis *P. Lancellotti*

2:15 PM - 2:30 PM

Diastolic Stress Test *J. Oh*

2:30 PM - 2:45 PM

Question and Answer

3:30 PM - 5:00 PM

E **How the Experts Do It: Sonographer/ Cardiologist Team** - Ballroom A

Chairs: C. Mitchell, J. Dent

3:30 PM - 3:50 PM

TAVR Assessment *Z. Samad, A. Amour*

3:50 PM - 4:10 PM

Diastology *A. Klein, D. Agler*

SUNDAY, JUNE 14TH**4:10 PM - 4:30 PM**Contrast *P. Grayburn, B. Roberts***4:30 PM - 4:50 PM**Strain *S. Mankad, P. Bastiansen***4:50 PM - 5:00 PM**

Question and Answer

3:30 PM - 5:00 PM**S Inspiring Health Care in Developing Countries - Ballroom B***Chairs: S. Wieggers, N. Weissman***3:30 PM - 3:42 PM**US Navy Medicine & Rheumatic Heart Disease *S. Romero***3:42 PM - 3:54 PM**One Dream, One World: Quality Point-of-Care Echo *L. Melniker***3:54 PM - 4:06 PM**ASE Global Initiative: Union of Technology and Expertise *D. Adams***4:06 PM - 4:50 PM**The Triumph of Human Spirit Over Adversity. Resilience *R. Canessa***4:50 PM - 5:00 PM**

Question and Answer

3:30 PM - 5:00 PM**S Echo and Technology: Toward a More Perfect Union**

Ballroom C

*Chairs: C. Chow, F. Asch***3:30 PM - 3:45 PM**Data Management to Enhance Workflow *A. Katz***3:45 PM - 4:00 PM**New Echo Platforms: Miniaturization to Robotics *P. Sengupta***4:00 PM - 4:15 PM**Therapeutic Ultrasound *F. Villanueva***4:15 PM - 4:30 PM**Echo and Technology: A Vision for the Future *M. Vannan***4:30 PM - 4:45 PM**Echo and Technology: But What Does it Mean for the Clinician? *J. Lindner***4:45 PM - 5:00 PM**Panel Discussion *J. Seward***3:30 PM - 5:00 PM****CL Case Competition 2015 - Room 302****3:30 PM - 3:35 PM**

Welcome

*Chairs: R. Grimm, G. Rose***3:35 PM - 3:45 PM**C2-01: Unusual Form of Atrial Septal Defect and the Importance of Modified Off-Axis Echocardiographic Views: Unroofing of Coronary Sinus *E. Petrovets***3:45 PM - 3:55 PM**C2-02: A Complicated Case of Mitral Valve Replacement: Echo Guided Successful Interventions *R. Janardhanan***3:55 PM - 4:05 PM**C2-03: Aortic Valve Repair is a Good Option in Adults with Aortic Insufficiency and Stenosis Resulting from a Discrete Subaortic Membrane *P. Sears-Rogan***4:05 PM - 4:15 PM**C2-04: Assist Device Thrombosis - Echocardiographic Findings of a Clogged Pump *E. Kruse***4:15 PM - 4:25 PM**C2-05: Unusual Diagnosis of a Mass Located in the Interventricular Septum: Ectopic Thyroid (Struma Cordis) *D.C. Rassi***4:25 PM - 4:35 PM**C2-06: Bi-atrial Compression Secondary to Large Ascending and Descending Aortic Aneurysms *S.A. Gowani***4:35 PM - 4:45 PM**C2-07: Severe Tricuspid Stenosis as the Initial Manifestation of Idiopathic Hypereosinophilic Syndrome *F. Larti***4:45 PM - 4:55 PM**C2-08: Expanding the Use of Echocardiography with Rapid Fluid Infusion to Unmask Pericardial Constriction *J. Park***4:55 PM - 5:00 PM**

Question and Answer

3:30 PM - 5:00 PM**PC ACHD: Focus on Tetralogy of Fallot - Room 304/306***Chairs: A. Valente, T. Geva***3:30 PM - 3:50 PM**Natural History and Outcomes, What Have We Learned? *C. Silversides***3:50 PM - 4:10 PM**The Left Heart *Y. Kim***4:10 PM - 4:30 PM**Multi-Media Approach *A. Valente***4:30 PM - 4:50 PM**When to Re-Intervene *T. Geva***4:50 PM - 5:00 PM**

Question and Answer

3:30 PM - 5:00 PM**S Interventional Echocardiography - Room 312***Chairs: T. Shiota, S. Goldstein***3:30 PM - 3:45 PM**Imaging for Transcatheter Aortic Valve Replacement *S. Little***3:45 PM - 4:00 PM**Mitral Interventions: PBMV and MitraClip *W. Stewart***4:00 PM - 4:15 PM**Assessing Septal Defects *C. Bruce***4:15 PM - 4:30 PM**Paravalvular Leak Closure *I. Kronzon***4:30 PM - 4:45 PM**LAA Exclusion Devices *M. Saric***4:45 PM - 5:00 PM**

Question and Answer

MONDAY, JUNE 15TH

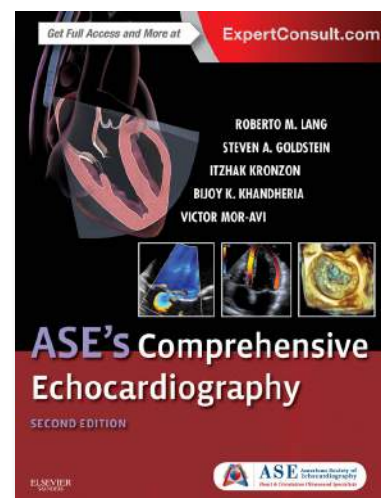
REGISTRATION OPEN: 6:30 AM - 6:30 PM						
EXHIBITS OPEN: 9:00 AM- 4:00 PM						
ROOM	Ballroom A	Ballroom B	Ballroom C	Room 302	Room 304/6	Room 312
7:00 - 7:50 AM	CL Taking Echo Outside the Lab		CL Challenging Cases in Aortic Regurgitation	CL V Quandaries in Carotid Disease Management	PC CL How to Assess Pediatric Valve Regurgitation and Determine Need for Intervention	CL Case Studies in Focused Echocardiography
8:00 - 9:30 AM	S R ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION/ 16TH ANNUAL FEIGENBAUM LECTURE <i>Ballroom B</i>					
9:30 - 10:15 AM	BREAK AND VISIT EXHIBITS					
10:15 - 11:45 AM	R E Research: Expanding the Echo Universe	S Game of Thrones I: Classic Echo Debates	S Extreme Echo: A Sonic Adventure in Advanced Ultrasound Physics	V Incorporating Vascular Into an Echo Practice <i>(Joint Sonographer/ Vascular Council Session)</i>	PC Fetal Cardiology: Assessing Fetal Cardiac Output, Function, and Flow	S Taking the Initiative on Quality
11:45 AM - 1:15 PM	SCIENCE & TECHNOLOGY THEATRE: PHILIPS HEALTHCARE					
1:15 - 2:45 PM	E Pericardial Disease - In the Sac	S Advanced Imaging in Mitral Regurgitation	S The School of Hard Knocks: Learning from My Greatest Mistakes	V Fundamental Vascular for the Cardiologist	PC Pediatric Controversies	S Pre- and Post- Procedural Evaluation of Transcatheter Devices
2:45 - 3:00 PM	BREAK AND VISIT EXHIBITS					
3:30 - 5:00 PM	E When Things Don't Fit		S Game of Thrones II: Classic Echo Debates	S Intracardiac Flow Vector <i>(Joint ASE/JSE Session)</i>	PC Stressed About Stress Imaging in Pediatrics/ Congenital Heart Disease <i>(Followed by Fireside Chat)</i>	S Imaging in Pregnancy
5:00 - 6:30 PM	S 3 OF A KIND COMPETITION <i>Ballroom B</i>					

Your library isn't complete without this book.

Book signing by the experts in the
Exhibit & Poster Hall on Sunday,
June 14!

Written by world experts from the American Society of Echocardiography (ASE) *Comprehensive Echocardiography* is a **unique multimedia resource with text, case studies, and online components** covering the latest uses of echocardiography, including the most recent 2D and 3D advances. This 2nd edition, with its new title, has over 200 chapters that include essential material in a succinct format. Included with the book is an online version and an outstanding online library of slides and videos of case presentations that correspond to crisp, full-color images, allowing you to view dynamic echocardiographic clips of various cardiac pathologies.

**Join us during the first break on
Sunday, June 14 from 9:30 am - 10:15 am in
ASE booth #413 in the Exhibit & Poster Hall,
to have editors sign your copy!**



**Visit the ASE Headquarters Booth or Products Sales
Booth to purchase your copy of ASE's *Comprehensive
Echocardiography* textbook today.**

7:00 AM - 7:50 AM

E **Taking Echo Outside the Lab** - Ballroom A
Chairs: *M. Adams, A. Pellett*

7:00 AM - 7:15 AM

Therapeutic Intervention Guidelines *D. McCullough*

7:15 AM - 7:30 AM

Sonographer Role in the EP/Cath Lab *M. Foster*

7:30 AM - 7:45 AM

Sonographer Role in the ER *B. Doldt*

7:45 AM - 7:50 AM

Question and Answer

7:00 AM - 7:50 AM

CL **Challenging Cases in Aortic Regurgitation** - Ballroom C
Chairs: *M. Monaghan, D. Rubenson*

7:00 AM - 7:15 AM

How Severe is This AI? *N. Pandian, A. Raabia*

7:15 AM - 7:30 AM

Paravalvular Regurgitation *M. Saric*

7:30 AM - 7:45 AM

AI in Aortic Dissection *S. Shah, O. Ahmet Afsin*

7:45 AM - 7:50 AM

Question and Answer

7:00 AM - 7:50 AM

CL V **Quandaries in Carotid Disease Management** - Room 302

Chairs: *J. Beckman, N. Hamburg*

7:00 AM - 7:15 AM

Asymptomatic Severe Carotid Disease *J. Beckman, R. Quiroz*

7:15 AM - 7:30 AM

Spontaneous Carotid Dissection: What Now?

M. Gerhard-Herman, G. Kwan

7:30 AM - 7:45 AM

Rapid Change in Carotid Stenosis *J. Siracuse, B. Wells*

7:45 AM - 7:50 AM

Question and Answer

7:00 AM - 7:50 AM

PC CL **How to Assess Pediatric Valve Regurgitation and Determine Need for Intervention** - Room 304/306

Chairs: *C. Fleishman, A. Dorfman*

7:00 AM - 7:15 AM

Mitral Regurgitation *J. Lu*

7:15 AM - 7:30 AM

Aortic Regurgitation *S. Srivastava*

7:30 AM - 7:45 AM

Anatomic Tricuspid Regurgitation *B. Soriano*

7:45 AM - 7:50 AM

Question and Answer

7:00 AM - 7:50 AM

CL **Case Studies in Focused Echocardiography** - Room 312
Chairs: *S. Mulvagh, M. Stone*

7:00 AM - 7:15 AM

Case 1: Dyspnea *M. Stone*

7:15 AM - 7:30 AM

Case 2: Chest Pain *D. Dudzinski*

7:30 AM - 7:45 AM

Case 3: Shock *L. Melniker*

7:45 AM - 7:50 AM

Question and Answer

8:00 AM - 9:30 AM

S R **Arthur E. Weyman Young Investigator's Award Competition/16th Annual Feigenbaum Lecture** - Ballroom B
Chair: *R. Grimm*

Judges: *T. Abraham, P. Grayburn, G. Habib, S. Nakatani, V. Rigolin, G. Rose, A. Weyman*

8:00 AM - 8:05 AM

Welcome and Introduction of Judges *R. Grimm*

8:05 AM - 8:20 AM

YIA-1: Safety and Feasibility of Diagnostic Ultrasound High Mechanical Index Impulses in Restoring Epicardial Flow in Acute ST Segment Elevation Myocardial Infarction in Humans
B.G. Tavares

8:20 AM - 8:35 AM

YIA-2: Automated Morphological and Functional Phenotyping of Human Heart with Feature Tracking of 2D Echocardiographic Images Using Machine Learning Algorithms *S. Narula*

8:35 AM - 8:50 AM

YIA-3: A Randomized Trial Integrating Pocket Ultrasound with mHealth Diagnostics in Modern Structural Heart Disease Clinics *S. Bhavnani*

8:50 AM - 9:05 AM

YIA-4: Evaluation of Myocardial Function According to Early Diastolic Intraventricular Pressure Difference in Fetuses
Y. Yamamoto

9:05 AM - 9:25 AM

16th Annual Feigenbaum Lecture: Echo Research in the Perioperative Space: As easy as A B C... *M. Swaminathan*

9:25 AM - 9:28 AM

Recognition of Feigenbaum Lecturer and Presentation of Plaque *H. Feigenbaum*

9:28 AM - 9:30 AM

Presentation of the YIA Plaques and Announcement of the Winner *A. Weyman*

10:15 AM - 11:45 AM

E R Research: Expanding the Echo Universe - Ballroom A
Chairs: P. Bastiansen, R. Meece

10:15 AM - 10:30 AM

We Bought a Zoo *P. Fox*

10:30 AM - 10:45 AM

Echoing Fruit Flies - Why? *M. Wolf*

10:45 AM - 11:00 AM

Deep-Sea Echo's *N. Pollock*

11:00 AM - 11:15 AM

Echoing Everest - Echo at Altitude *E. Velazquez*

11:15 AM - 11:30 AM

Echo on the Space Station *D. Martin*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S Game of Thrones I: Classic Echo Debates - Ballroom B
Chairs: A. Pearlman, A. Parisi

10:15 AM - 10:28 AM

Debate 1: 3D Echo is Not Ready for Prime Time *N. Schiller*

10:28 AM - 10:41 AM

Debate 1: 3D Echo is Integral to the Assessment of Cardiac Structure and Function *L. Badano*

10:41 AM - 10:54 AM

Debate 2: Perfusion Contrast Echocardiography Fact or Fiction? FICTION! *A. Weyman*

10:54 AM - 11:07 AM

Debate 2: Perfusion Contrast Echocardiography Fact or Fiction? FACT! *S. Kaul*

11:07 AM - 11:20 AM

Debate 3: Multi-modality Imaging is the New Standard of Care for Valvular Heart Disease *V. Delgado*

11:20 AM - 11:33 AM

Debate 3: Echocardiography is the Diagnostic Test of Choice for Valvular Heart Disease *W. Zoghbi*

11:33 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S Extreme Echo: A Sonic Adventure: Advanced Ultrasound Physics - Ballroom C
Chairs: V. Mor-Avi, A. DeMaria

10:15 AM - 10:30 AM

Frequency and Frequency Shift in Nature *J. Lindner*

10:30 AM - 10:45 AM

Fast and Furious: Potential Future Applications of Ultra-high Frame Rate Echo *J. D'Hooge*

10:45 AM - 11:00 AM

Ultrasound-facilitated Gene and Drug Delivery *H. Leong-Poi*

11:00 AM - 11:15 AM

New Speckle Science: Myocardial Texture and Flow Velocimetry *A. Kheradvar*

11:15 AM - 11:30 AM

Valvular-Annular Relationships: Unique Pathologic Insights *R. Levine*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

V Incorporating Vascular Into an Echo Practice (Joint Sonographer/Vascular Council Session) - Room 302

Chairs: M. Gerhard-Herman, R. Eberhardt

10:15 AM - 10:30 AM

Carotid Duplex for the Echocardiographer: Tips and Tricks for Improving Imaging *R. Benenstein*

10:30 AM - 10:45 AM

Incorporating Vascular into the Echo Lab: Practical Considerations *B. Fowler*

10:45 AM - 11:00 AM

Vascular Laboratory Accreditation Decoded *M. Hutchisson*

11:00 AM - 11:10 AM

Vascular Credentialing: for Physicians *M. Gerhard-Herman*

11:10 AM - 11:20 AM

Vascular Credentialing: for Sonographers *G. Size*

11:20 AM - 11:35 AM

Carotid Duplex Interpretation: Which Criteria? *N. Hamburg*

11:35 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S Taking the Initiative on Quality - Room 312
Chairs: B. Byrd, P. Douglas

10:15 AM - 10:30 AM

The Appropriate Use of Appropriate Use Criteria *R. Weiner*

10:30 AM - 10:45 AM

Assuring Quality Assurance: The Critical Role of the Sonographer *M. Bremer*

10:45 AM - 11:00 AM

Measuring Quality: Are You Good At What You Do? How Do You Know? *R. Weiner*

11:00 AM - 11:15 AM

Not Just for the Ivory Tower: Quality Echo in Everyday Practice *M. Main*

11:15 AM - 11:30 AM

Bringing it All Together: The Role of Accreditation *D. Orsinelli*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

PC Fetal Cardiology: Assessing Fetal Cardiac Output, Function, and Flow - Room 304/306

Chairs: M. Donofrio, J. Rychik

10:15 AM - 10:30 AM

Fetal Echo in Fetuses with High Output Failure *L. Young*

10:30 AM - 10:45 AM

Fetal Ventricular Function: Primary and Secondary Cardiomyopathies *S. Maskatia*

10:45 AM - 11:00 AM

Fetal Cardiac MR: Assessing Flow Beyond Echo *M. Seed*

11:00 AM - 11:15 AM

Fetal Growth Restriction *A. Moon-Grady*

11:15 AM - 11:30 AM

Fetal Cerebroplacental Flow in the Developing Brain: Normal and in CHD *A. Szawast*

11:30 AM - 11:45 AM

Question and Answer

1:15 PM - 2:45 PM

E Pericardial Disease - In the Sac - Ballroom A

Chairs: A. Venkateshvaran, B. Doldt

1:15 PM - 1:30 PM

Normal Anatomy - Do I Need Pericardium? *P. Restrepo*

1:30 PM - 1:45 PM

Assessing Tamponade *G. Bloomfield*

1:45 PM - 2:00 PM

Hemodynamics of Constriction *M. Umland*

2:00 PM - 2:15 PM

Pericardial Involvement in Other Diseases *K. Chin*

2:15 PM - 2:30 PM

Cases Cases Cases *J. Warmsbecker*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S Advanced Imaging in Mitral Regurgitation - Ballroom B

Chairs: J. Hung, N. Schiller

1:15 PM - 1:30 PM

ACC/AHA Guidelines in Mitral Regurgitation *J. Hung*

1:30 PM - 1:45 PM

Mechanisms of Mitral Regurgitation *M. Sarano*

1:45 PM - 2:00 PM

Quantification of Mitral Regurgitation *P. Grayburn*

2:00 PM - 2:15 PM

Role of Stress Echocardiography *E. Donal*

2:15 PM - 2:30 PM

New Methods of Quantifying Mitral Regurgitation

P. Thavendiranathan

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S The School of Hard Knocks - Learning from My Greatest Mistakes - Ballroom C

Chairs: A. Pearlman, P. Knoll

1:15 PM - 1:30 PM

Diastology Gone All Wrong *F. Flachskampf*

1:30 PM - 1:45 PM

Pitfalls in Evaluating Aortic Regurgitation *D. Burstow*

1:45 PM - 2:00 PM

Smoke and Mirrors: Imaging Artifacts *S. Goldstein*

2:00 PM - 2:15 PM

Congenital Quagmires *M. King*

2:15 PM - 2:30 PM

Discriminating Cardiomyopathies *J. Seward*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

V Fundamental Vascular for the Cardiologist - Room 302

Chairs: A. Johri, M. Sprynger

1:15 PM - 1:25 PM

Council Meeting and Travel Grant Presentation *N. Hamburg*

1:25 PM - 1:40 PM

Carotid Duplex: Beyond Stenosis *I. Weinberg*

1:40 PM - 1:55 PM

Incidental Vascular Findings on Echocardiography *A. Johri*

1:55 PM - 2:10 PM

Clinical Use of Carotid IMT *T. Naqvi*

2:10 PM - 2:25 PM

Update on Vascular Function Testing *N. Hamburg*

2:25 PM - 2:40 PM

Imaging for Post-Procedural Complications *S. Kim*

2:40 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

PC Pediatric Controversies - Room 304/306

Judges: T. Tacy, P. Frommelt

1:15 PM - 1:27 PM

Debate 1: All Echo Studies Should be Complete *M. Cohen*

1:27 PM - 1:39 PM

Debate 1: Bringing Focused Echoes to the Pediatric Echo Lab *J. Simpson*

1:39 PM - 1:51 PM

Debate 2: "A Rose by Any Other Name:" The Left AV Valve IS NOT a Mitral Valve After AV Canal Repair *L. Lopez*

1:51 PM - 2:03 PM

Debate 2: "A Rose by Any Other Name:" The Left AV Valve IS a Mitral Valve After AV Canal Repair *T. Geva*

2:03 PM - 2:15 PM

Debate 3: A Good Single Ventricle Palliation IS Better Than Marginal Biventricular Repair *H. Gardiner*

2:15 PM - 2:27PM

Debate 3: Biventricular Repair Is Always Better Than Any Single Ventricle Palliation *W. Tworetzky*

2:27 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S Pre- and Post-Procedural Evaluation of Transcatheter Devices - Room 312

Chairs: V. Agrawal, N. Weissman

1:15 PM - 1:30 PM

Role of Echo for TAVR Patient/Procedure Selection *M. Monaghan*

1:30 PM - 1:45 PM

Intra-procedural Guidance: Standard and Novel Imaging Techniques *I. Kronzon*

1:45 PM - 2:00 PM

Post-Procedural Hemodynamic Assessment of the Transcatheter Valve *P. Pibarot*

2:00 PM - 2:15 PM

Role of Echo for MitraClip Procedure Planning *W. Stewart*

2:15 PM - 2:30 PM

Intra-Procedural Guidance for the MitraClip: Avoiding Complications *O. Khalique*

2:30 PM - 2:45 PM

Post-Procedural Evaluation of MitraClip: How Do We Define Success? *J. Passeri*

3:30 PM - 5:00 PM

E When Things Don't Fit - Ballroom A

Chairs: S. Minter, G. Bloomfield

3:30 PM - 3:45 PM

Conflicted: Constrictive or Restrictive? *S. Hennemann*

3:45 PM - 4:00 PM

Diastolic Discrepancies *L. Rodriguez*

4:00 PM - 4:15 PM

My Aortic Gradient is Low? *M. Bierig*

4:15 PM - 4:30 PM

Why Does This Doppler Flow Pattern Look Funny? *M. Umland*

4:30 PM - 4:45 PM

Outside Study Said "That" But We Say "This" *D. Homa*

4:45 PM - 5:00 PM

Question and Answer

3:30 PM - 5:00 PM

S Game of Thrones II: Classic Echo Debates - Ballroom C

Chairs: T. Kolias, D. Forst

3:30 PM - 3:45 PM

Debate 4: LVEF Remains an Indispensable Measure of Function and Cardiovascular Outcomes *H. Feigenbaum*

3:45 PM - 4:00 PM

Debate 4: Strain Imaging Should Replace LVEF *J. Thomas*

4:00 PM - 4:15 PM

Debate 5: CT Angiography Should Replace Stress Echo *U. Hoffmann*

4:15 PM - 4:30 PM

Debate 5: Echo is More Cost-Effective Than CT for Suspected Coronary Disease *M. Garcia*

4:30 PM - 4:45 PM

Debate 6: Echocardiography Can Accurately Assess Pulmonary Pressures and Vascular Resistance *S. Lester*

4:45 PM - 5:00 PM

Debate 6: Echocardiography is Limited as a Management Tool in Pulmonary Hypertension *T. Marwick*

3:30 PM - 5:00 PM

S Intracardiac Flow Vector: (Joint JSE/ASE Session) Room 302

Chairs: S. Nakatani, S. Nagueh

3:30 PM - 3:50 PM

Using CMR Techniques for Visualizing 3D Cardiovascular Flow *J. Cavalcante*

3:50 PM - 4:10 PM

Vector Flow Mapping and Fluid Dynamics *K. Itatani*

4:10 PM - 4:30 PM

Echocardiography in General and Vector Flow Mapping *S. Nakatani*

4:30 PM - 4:50 PM

Particle Imaging Velocimetry: Is There Clinical Applicability? *P. Sengupta*

4:50 PM - 5:00 PM

Question and Answer

3:30 PM - 5:00 PM

PC Stressed About Stress Imaging in Pediatrics/ Congenital Heart Disease - Room 304/306

Chairs: J. Campbell, W. Border

3:30 PM - 3:50 PM

Nuclear Stress Tests *W. Jaber*

3:50 PM - 4:10 PM

Exercise Stress Echo *W. Border*

4:10 PM - 4:30 PM

Pharmacologic Stress Echo *P. Ermis*

4:30 PM - 4:50 PM

MRI/PET Stress *J. Campbell*

4:50 PM - 5:00 PM

Question and Answer

3:30 PM - 5:00 PM

S Imaging in Pregnancy - Room 312

Chairs: J. DeCara, C. Silversides

3:30 PM - 3:45 PM

Review of the Hemodynamics of Pregnancy *S. Phillips*

3:45 PM - 4:00 PM

Cardiovascular Imaging in Pregnancy: What is Safe? *A. Poppas*

4:00 PM - 4:15 PM

Aortic Valve and Aortic Disease in Pregnancy *L. Blauwet*

4:15 PM - 4:30 PM

Pulmonary Hypertension *M. Daubert*

4:30 PM - 4:45 PM

Cardiomyopathy and Heart Failure *S. Rosen*

4:45 PM - 5:00 PM

Question and Answer

5:00 PM - 6:00 PM

PC Fireside Chat - Room 304/306

Interviewer: A. Valente

Interviewee: S. Sanders

5:00 PM - 6:30 PM

S Three-of-a-Kind - Ballroom B

Chair: D. Adams

Hosts: J. Lindner, J. Thomas

European/Canadian Team *P. Lancellotti, C. Chow*

South American Team *R. Ronderos, A. Rabischoffsky*

North American Team *G. Aurigemma, S. Lester*

ECHO HAWAII

26th ANNUAL



January 18-22, 2016

**Hapuna Beach Prince Hotel
Kohala Coast, Big Island, HI**

Course Director

Thomas J. Ryan, MD, FASE

Past-President, ASE

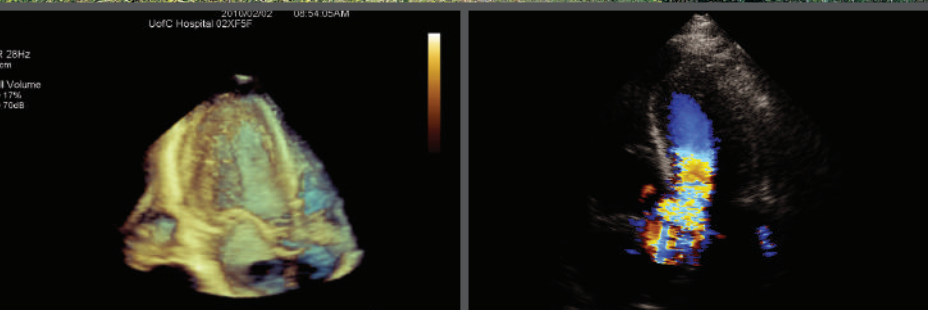
The Ohio State University, Columbus, OH

Co-Director

Neil J. Weissman, MD, FASE

Past-President, ASE

MedStar Research Health Institute, Washington, DC



Register now at www.asecho.org/EchoHawaii



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

TUESDAY, JUNE 16TH

TUESDAY

REGISTRATION OPEN: 6:30 AM - 4:30 PM

EXHIBIT & POSTER HALL CLOSED

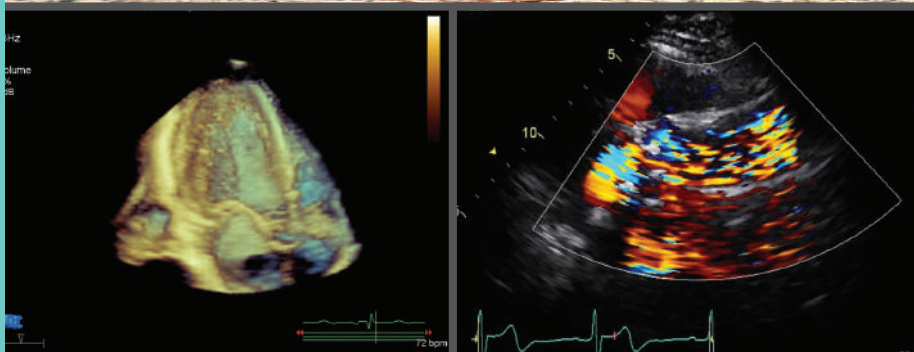
ROOM	Ballroom A	Ballroom B	Ballroom C	Room 304/6	Room 312
7:00 - 7:50 AM	CL Complications: When Things Go Wrong	CL Challenging Cases in Diastology and Pericardial Disease	CL Go with the Flow: Case Studies in Mitral Valve Disease	CL 3D Echo Impacting Management in Congenital Heart Disease: Case-based Learning	CL Tricuspid Valve Disease
8:00 - 9:30 AM	E The Mitral Valve: Protector of the Lungs	S Novel Concepts in the Evaluation of Prosthetic Valves	S Real-Time 3D Echo: Time to Change Our Perspective <i>(Joint ASE/EACVI Symposium)</i>	PC R Pediatric Oral Abstracts	S Transforming Ideas into Clinical Practice: Echo in Science
9:30 - 10:00 AM	BREAK				
10:00 - 11:30 PM	E Cardiomyopathies	S Imaging in Nonischemic Cardiomyopathy	S Brain Teasers from Around the World	PC Aortopathy: Bigger is Not Always Better	S Echogenetics
11:30 AM - 1:00 PM	SCIENCE & TECHNOLOGY THEATRE: ABBOTT VASCULAR				
1:00 - 2:30 PM	E Prosthetic Valves Old and New	S Resolving Our Differences: Dealing with Discordance	S Clinical Transesophageal Echocardiography	PC Myocardial Mechanics in Congenital Heart Disease	S Highlights from ASE 2015: What You Might Have Missed
2:30 - 3:00 PM	BREAK				
3:00 - 4:30 PM	E Lessons Learned Over 140 Years of Echo	S Luminaries Shedding Light: Lessons from Past Presidents			

For detailed information, please download the ASE Live Educational Courses app or visit asescientificsessions.org.

SCHEDULE AT A GLANCE

ECHO ASEAN

1st INAUGURAL



October 23-25, 2015
Conrad Bangkok
Bangkok, Thailand

Course Director

Jonathan R. Lindner, MD, FASE
Oregon Health & Science University
Portland, OR

Course Co-Directors

James D. Thomas, MD, FASE
Past President, ASE
Northwestern Memorial Hospital
Chicago, IL

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National Heart Centre Singapore
Singapore

Featuring:

- Novel approaches for assessing ventricular systolic and diastolic function
- State of the art evaluation of valve disease
- Clinical application of 3-D echo, strain, echo and other new technologies
- Integrate echo information in the management of complex cardiovascular disease

www.asecho.org/asean



7:00 AM - 7:50 AM**CL** **Complications: When Things Go Wrong** - Ballroom A*Chairs: S. Sengupta, A. Flinn***7:00 AM - 7:15 AM**Help I Have Been Shot! Chest Trauma *S. Walling***7:15 AM - 7:30 AM**Post Myocardial Infarction *M. Daubert***7:30 AM - 7:45 AM**Why is the LVAD Malfunctioning? *A. Davis***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL** **Challenging Cases in Diastology and Pericardial Disease** - Ballroom B*Chairs: R. Wharton, I. Burwash***7:00 AM - 7:15 AM**Spectrum of Diastolic Dysfunction *J. Mangion***7:15 AM - 7:30 AM**Effusive-Constrictive Disease *J. Dent***7:30 AM - 7:45 AM**Restriction *L. Sugeng***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL** **Go with the Flow: Case Studies in Mitral Valve Disease** - Ballroom C*Chairs: M. Sarano, F. Faletra***7:00 AM - 7:15 AM**Mitral Valve Stenosis *H. Michelena, C. Lane***7:15 AM - 7:30 AM**Ischemic Mitral Regurgitation *S. Wieggers, P. Patil***7:30 AM - 7:45 AM**Congenital Mitral Valve Disease *W. Lai, A. Chelliah***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**PC** **3D Echo Impacting Management in Congenital Heart Disease: Case Based Learning** - Room 304/306*Chairs: G. Marx, J. Simpson***7:00 AM - 7:15 AM**Case 1 *J. Simpson***7:15 AM - 7:30 AM**Case 2 *G. Shirali***7:30 AM - 7:45 AM**Case 3 *D. Roberson***7:45 AM - 7:50 AM**

Question and Answer

7:00 AM - 7:50 AM**CL** **Tricuspid Valve Disease** - Room 312*Moderators: G. Kane, A. Rabischoffsky***7:00 AM - 7:15 AM**Pacemaker Induced TR *B. Hoit***7:15 AM - 7:30 AM**Secondary TR *V. Rigolin***7:30 AM - 7:45 AM**Ebstein's Anomaly *L. Wyman***7:45 AM - 7:50 AM**

Question and Answer

8:00 AM - 9:30 AM**E** **The Mitral Valve - Protector of The Lungs** - Ballroom A*Chairs: J. Cleve, M. Keane***8:00 AM - 8:15 AM**Mitral Valve Anatomy By 2D/3D *J. Kisslo***8:15 AM - 8:30 AM**Quantification of Regurgitation *B. Roberts***8:30 AM - 8:45 AM**Quantification of Stenosis *G. Bhogal***8:45 AM - 9:00 AM**What's the Problem? *R. Meece***9:00 AM - 9:15 AM**Cases: From the Echo Lab to the OR *A. Chen***9:15 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**S** **Novel Concepts in the Evaluation of Prosthetic Valves** - Ballroom B*Chairs: M. Garcia, W. Zogbhi***8:00 AM - 8:15 AM**Guidelines for Prosthetic Valves *F. Flachskampf***8:15 AM - 8:30 AM**Prosthetic Mismatch vs. Obstruction *P. Pibarot***8:30 AM - 8:45 AM**Prosthetic Valve Regurgitation *S. Kort***8:45 AM - 9:00 AM**Prosthetic Valve Thrombosis *B. Lindman***9:00 AM - 9:15 AM**Prosthetic Valve Endocarditis *G. Habib***9:15 AM - 9:30 AM**

Question and Answer

TUESDAY, JUNE 16TH**8:00 AM - 9:30 AM****S Real-Time 3D Echo: Time to Change Our Perspective (Joint ASE/EACVI Symposium) - Ballroom C***Chairs: F. Faltera, L. Sugeng***8:00 AM - 8:20 AM**Incorporating 3D into the Clinical Lab *W. Tsang***8:20 AM - 8:40 AM**3D for Valve Morphology *F. Faltera***8:40 AM - 9:00 AM**3D for Defining Cardiac Chambers *L. Badano***9:00 AM - 9:20 AM**Novel Uses of 3D Echocardiography *M. Vannan***9:20 AM - 9:30 AM**

Question and Answer

8:00 AM - 9:30 AM**PC R Pediatric Oral Abstracts - Room 304/306***Chairs: C. Altman, P. Barker***8:00 AM - 8:15 AM**PC-01: Pulmonary Artery Acceleration Time Accurately Predicts Catheter Measured Pulmonary Hemodynamics in Children: A Simultaneous Catheter-Doppler Correlative Study *P.T. Levy***8:15 AM - 8:30 AM**PC-02: Left Ventricular Diastolic Dysfunction Secondary to Adverse Ventricular Interdependence in Children with Pulmonary Hypertension *D. Burkett***8:30 AM - 8:45 AM**PC-03: Determinants of Productivity: Survey Analysis from the American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity (C-PELP) *S. Srivastava***8:45 AM - 9:00 AM**PC-04: Validation of Non-invasive Measures of Contractility in Children: A Simultaneous Echocardiography and Conductance Catheterization Study *S.M. Chowdhury***9:00 AM - 9:15 AM**PC-05: Fetal Cerebrovascular Redistribution and Ascending Aorta Diameter Predict Postnatal Cerebral Dysmaturation in Neonates with Congenital Heart Disease *J.K. Votava-Smith***9:15 AM - 9:30 AM**PC-06: The Effect of Chronic Maternal Hyperoxygenation on Aortic and Mitral Valve Annular Dimensions in Fetuses with Left Heart Hypoplasia *D.A. Lara***8:00 AM - 9:30 AM****S Transforming Ideas Into Clinical Practice: Echo in Science - Room 312***Chairs: F. Villanueva, M. Quiñones***8:00 AM - 8:15 AM**Preclinical Echo: What Have We Learned From It *M. Scherrer-Crosbie***8:15 AM - 8:30 AM**Gene Therapy: Ready For Prime Time? *H. Leong-Poi***8:30 AM - 8:45 AM**Recent Successes and Failures of Echo in Clinical Trials *P. Douglas***8:45 AM - 9:00 AM**Running an Echo Core Lab *N. Weissman***9:00 AM - 9:15 AM**Standardization of Echo Parameters *J. Voigt***9:15 AM - 9:30 AM**

Question and Answer

10:00 AM - 11:30 AM**E Cardiomyopathies - Ballroom A***Chairs: K. Chin, S. Walling***10:00 AM - 10:15 AM**Dilated Cardiomyopathy: Ischemic vs. Non-Ischemic *C. Capobianco***10:15 AM - 10:30 AM**Step By Step Approach to Assessing HOCM *K. Radigan***10:30 AM - 10:45 AM**Infiltrative *A. Armour***10:45 AM - 11:00 AM**Athlete's Heart: Hypertensive *R. Weiner***11:00 AM - 11:15 AM**Post Intervention Assessment *A. Flinn***11:15 AM - 11:30 AM**

Question and Answer

10:00 AM - 11:30 AM**S Imaging in Non Ischemic Cardiomyopathy - Ballroom B***Chairs: M. Scherrer-Crosbie, K. Poh***10:00 AM - 10:15 AM**How to Differentiate From Ischemic CM *R. Troughton***10:15 AM - 10:30 AM**Hypertrophic Cardiomyopathies *A. Woo***10:30 AM - 10:45 AM**Infiltrative Cardiomyopathies *D. Phelan***10:45 AM - 11:00 AM**Non Compaction *R. Ronderos***11:00 AM - 11:15 AM**Takotsubo Cardiomyopathy *J. Song***11:15 AM - 11:30 AM**

Question and Answer

10:00 AM - 11:30 AM**S Brain Teasers from Around the World - Ballroom C***Chairs: J. Shin, P. Gutierrez-Fajardo***10:00 AM - 10:15 AM**Brazil *O. See, M. Vieira***10:15 AM - 10:30 AM**Argentina *A. Prado***10:30 AM - 10:45 AM**China *Y. Zhang*

10:45 AM - 11:00 AMIndia *J. Mohan***11:00 AM - 11:15 AM**Singapore *Z. Ding***11:15 AM - 11:30 AM**

Question and Answer

10:00 AM - 11:30 AM**PC Aortopathy: Bigger is Not Always Better -**
Room 304/306*Chairs: F. Flachskampf, D. Milewicz***10:00 AM - 10:15 AM**Genetic Aortopathy *D. Milewicz***10:15 AM - 10:30 AM**Bicuspid AV and Coarctation *H. Michelena***10:30 AM - 10:45 AM**Post-op Conotruncal Aortopathies *S. Morris***10:45 AM - 11:00 AM**Diagnosing Aortic Dissection *J. Mangion***11:00 AM - 11:15 AM**Traumatic Aortic Injury *R. Hahn***11:15 AM - 11:30 AM**

Question and Answer

10:00 AM - 11:30 AM**S Echogenetics - Room 312***Chairs: H. Rakowski, B. Hoit***10:00 AM - 10:15 AM**GWAS and Other Advances in Cardiogenetics: Are They
Relevant? *J. Towbin***10:15 AM - 10:30 AM**The Relationship of Genotype and Phenotype in HCM *C. Ho***10:30 AM - 10:45 AM**Arrhythmogenic RV Dysplasia: The Place of Echo *D. Sanborn***10:45 AM - 11:00 AM**Familial Dilated Cardiomyopathy *J. Towbin***11:00 AM - 11:15 AM**Genetics, Echo and Aortic Diseases *M. Roman***11:15 AM - 11:30 AM**

Question and Answer

1:00 PM - 2:30 PM**E Prosthetic Valves Old and New - Ballroom A***Chairs: J. Marshall, B. Roberts***1:00 PM - 1:15 PM**Overview of Valve Types *R. Palma***1:15 PM - 1:30 PM**Post Op Valve Assessment *J. Cleve***1:30 PM - 1:45 PM**Complications of Prosthetic Valves *D. Atherton***1:45 PM - 2:00 PM**Fixing What's Broken: Amplatzers, Valve in Valve *S. Minter***2:00 PM - 2:15 PM**What to Expect Post Mitral Valve Repair *M. Adams***2:15 PM - 2:30 PM**

Question and Answer

1:00 PM - 2:30 PM**S Resolving Our Differences: Dealing with**
Discordance - Ballroom B*Chairs: P. Pellikka, J. Ha***1:00 PM - 1:20 PM**When Diastology Sucks *B. Popescu***1:20 PM - 1:40 PM**Aortic Stenosis Paradox: Low Gradient, Normal EF *J. Tam***1:40 PM - 2:00 PM**Perplexing Prosthesis: High Gradients *D. Burstow***2:00 PM - 2:20 PM**Mild-to-Severe Mitral Regurgitation? *J. Hung***2:20 PM - 2:30 PM**

Question and Answer

1:00 PM - 2:30 PM**S Clinical Transesophageal Echocardiography -**
Ballroom C*Chairs: F. Miller, K. Poh***1:00 PM - 1:15 PM**Evaluation of the Patient for Cardiac Source of Embolism
*M. Strachinaru***1:15 PM - 1:30 PM**Prosthetic Valve Dysfunction *L. Blauwet***1:30 PM - 1:45 PM**Endocarditis *M. Keane***1:45 PM - 2:00 PM**Atrial Fibrillation *S. Little***2:00 PM - 2:15 PM**Aortic Pathology *K. Harris***2:15 PM - 2:30 PM**

Question and Answer

1:00 PM - 2:30 PM**PC Myocardial Mechanics in Congenital Heart Disease -**
Room 304/306*Chairs: M. Friedberg, L. Lopez***1:00 PM - 1:20 PM**Can We Measure Atrial Function and What Does it Mean *S. Kutty***1:20 PM - 1:40 PM**What Echo Parameters Should We Use for Evaluation of LV
Function *S. Colan*

TUESDAY, JUNE 16TH**1:40 PM - 2:00 PM**

What Echo Parameters Would We Use to Assess RV Function
B. Eidem

2:00 PM - 2:20 PM

The Ventricle Stands Alone? Understanding Ventricular
Independence *M. Friedberg*

2:20 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

**S R Highlights of the 26th Scientific Sessions –
What you Might Have Missed - Room 312**

Chairs: R. Grimm, G. Rose

1:00 PM - 1:15 PM

3D and Novel Technology *R. Grimm*

1:15 PM - 1:30 PM

Myocardial Imaging *F. Asch*

1:30 PM - 1:45 PM

Vascular Imaging *S. Kim*

1:45 PM - 2:00 PM

Pediatric Echo *C. Altman*

2:00 PM - 2:15 PM

Valve Disease *G. Rose*

2:15 PM - 2:30 PM

Outcomes and Policy *S. Mankad*

3:00 PM - 4:30 PM

E Lessons Learned Over 140 Years of Echo
Ballroom A

Chairs: D. Atherton, P. Burgess

3:00 PM - 3:18 PM

40 Years - Harvey, Ned and I *J. Marshall*

3:18 PM - 3:36 PM

38 Years at the CCF - How Time Flies *D. Agler*

3:36 PM - 3:54 PM

40 Years in the Sunshine *P. Knoll*

3:54 PM - 4:12 PM

45 Years: “No, That’s Not a Typo!” *S. Hagen-Ansert*

4:12 PM - 4:30 PM

35 Years with Kisslo - A Marriage *D. Adams*

3:00 PM - 4:30 PM

**S Luminaries Shedding Light: Lessons From Past
Presidents - Ballroom B**

Chair: S. Wiegers

3:00 PM - 3:15 PM

J. Thomas

3:15 PM - 3:30 PM

M. Picard

3:30 PM - 3:45 PM

P. Pellikka

3:45 PM - 4:00 PM

A. Weyman

4:00 PM - 4:15 PM

L. Gillam

4:15 PM - 4:30 PM

Question and Answer

Excellence in ECHOCARDIOGRAPHY EDUCATION

2015 Courses

JULY

XII Congreso ECOSIAC/ III Congreso Argentino de Ecocardiografía e Imágenes Cardiovasculares SAC
July 30-August 1, 2015 | Buenos Aires, Argentina
Hotel NH City
Endorsed by ASE

SEPTEMBER

37th Annual Echo Northwestern Conference
September 19-21, 2015 | Chicago, IL
Northwestern Memorial Hospital
Sponsored by Northwestern University Feinberg School of Medicine and held in cooperation with ASE

OCTOBER

4th Annual Echo Florida
October 11-13, 2015 | Walt Disney World®, FL
Preconferences available on October 10
Disney's Beach & Yacht Club Resort
Jointly provided by ASE and the ASE Foundation

Echo ASE ASEAN
October 23-25, 2015 | Bangkok, Thailand
Conrad Bangkok
Jointly provided by ASE and the ASE Foundation and held in cooperation with the Thailand Society of Echocardiography

NOVEMBER

Echocardiography 2015: The Role of Cardiac Imaging in Perioperative and Critical Care
November 7-10, 2015 | Naples, FL
The Ritz Carlton Golf Resort
Sponsored by the UNMC Department of Anesthesiology in conjunction with the UNMC Center for Continuing Medical Education. Held in cooperation with ASE

10th Echo Hong Kong
November 19-22, 2015 | Hong Kong
Ruttonjee Hospital and Sheraton Hong Kong Hotel 7 Towers
Organized by Ruttonjee & Tang Shiu Kin Hospitals and endorsed by ASE

2016 Courses

JANUARY

26th Annual Echo Hawaii
January 18-22, 2016 | Kohala Coast, HI
Hapuna Beach Prince Hotel
Jointly provided by ASE and the ASE Foundation

FEBRUARY

29th Annual State-of-the-Art Echocardiography
February 13-16, 2016 | Tucson, AZ
Preconferences available February 12-13
Hilton Tucson El Conquistador Golf & Tennis Resort
Jointly provided by ASE and the ASE Foundation

APRIL

17th Annual ASCeXAM/ReASCE Review Course
April 16-19, 2016 | Philadelphia, PA
Loews Philadelphia Hotel
Jointly provided by ASE and the ASE Foundation

JUNE

27th Annual Scientific Sessions
June 11-14, 2016 | Seattle, WA
Washington State Convention Center
Jointly provided by ASE and the ASE Foundation

Be sure to participate in these educational offerings! Discounted rates for ASE members.

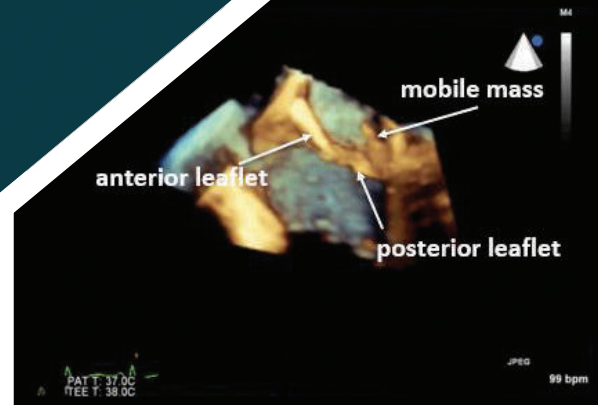
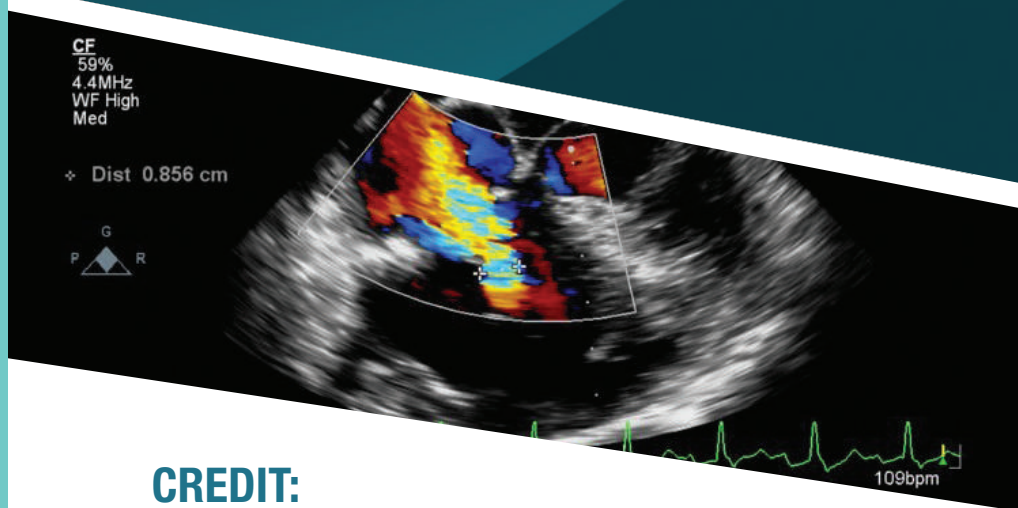
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JUST RELEASED!

Clinical Cases in Echocardiography: Focus on Congenital Heart Disease

SPECIAL EVENTS



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- > 10 MOC points towards ABP's Lifelong Learning Self-Assessment requirements

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- > Valve defects
- > Atrial and ventricular septal defects
- > Patent foramen ovale
- > Patent ductus arteriosus
- > Coarctation of the aorta
- > Ebstein's anomaly
- > Pulmonary artery stenosis
- > Tetralogy of Fallot
- > Transposition of the great arteries
- > And more!



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

The American Society of Echocardiography designates this enduring material for a maximum of 5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NETWORKING OPPORTUNITIES & SPECIAL EVENTS

SCIENCE & TECHNOLOGY THEATRE

EXHIBIT & POSTER HALL, LEVEL 2

The Science & Technology Theatre is located in the Exhibit & Poster Hall. Lunch is provided by ASE and is included in your registration fee, but space and boxed lunches are on a first come, first served basis. These industry-supported symposia sessions are independently planned and are not a part of the official ASE 26th Annual Scientific Sessions as planned by the Program Committee, or in any way directly endorsed or affiliated with ASE. These sessions are not eligible for CME credit.

SCIENCE & TECHNOLOGY THEATRE SCHEDULE

SATURDAY, JUNE 13.....11:30 am – 1:00 pm
Enhancing the Value of Echocardiography, *presented by Bracco Diagnostics Inc.*

SUNDAY, JUNE 14.....11:45 am – 1:15 pm
Contrast Echo: See the Difference, Experience the Impact *presented by Lantheus Medical Imaging, Inc.*

MONDAY, JUNE 15.....11:45 am – 1:15 pm
Using Echo Anatomical Intelligence to Help meet Standards in Today's Ecosystem, *presented by Philips Healthcare*

TUESDAY, JUNE 16.....11:30 am – 1:00 pm
Innovations in Management of Patients with Mitral Regurgitation with TMVR, *presented by Abbott Vascular*

FRIDAY, JUNE 12TH

MAINTENANCE OF CERTIFICATION SESSION (MOC)

1:30 PM – 5:00 PM

(This session requires a separate registration.)

Upon completion of the Maintenance of Certification (MOC) half-day session, registrants will be given access to an online module to complete to be awarded MOC credits. This session highlights several key topic areas

through a study of clinical patient scenarios provided and analyzed by field experts. Guided by faculty moderators and audience response, topics covered will include cardiomyopathies, aortic regurgitation, endocarditis, mitral stenosis, Doppler, congenital heart disease, closure devices/device placement, image optimization, CRT, stress echocardiography, and many more through a whole new set of clinical patient scenarios provided and analyzed by field experts.

I ♥ ECHO SESSION

1:30 PM – 5:00 PM

(This session requires a separate registration.)

This unique session is geared not only towards medical students, but also to more advanced practitioners, physicians, and medical educators interested in how ultrasound is being used in medical education. Leaders in the field who are pioneering the use of ultrasound in medical education will lecture on the evidence of ultrasound's utility in educating practitioners, as well as doing the hands-on instruction and didactic teaching on the focused cardiac exam. Instructors will demonstrate cardiac anatomy, physiology, and pathophysiology, and then participants will be able to practice all aspects of the focused cardiac ultrasound exam with the hands-on portion. Illustrative cases on the dyspneic patient, the patient with undifferentiated shock, and the patient with chest pain will illustrate the value of the focused ultrasound exam, both in diagnostic efficacy and in managing treatment decision making.

SATURDAY, JUNE 13TH

PRESIDENT'S RECEPTION

4:30 PM - 6:30 PM

EXHIBIT & POSTER HALL, LEVEL 2

All attendees are invited to celebrate ASE 2015 at the President's Reception, hosted by ASE President, Neil

54 Weissman, MD, FASE. This is your first opportunity to network with colleagues and friends while learning more about the newest equipment and services in the cardiovascular field. Complimentary hors d'oeuvres and cocktails 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.

ASE FOUNDATION 6TH ANNUAL RESEARCH AWARDS GALA

7:00 PM - 11:00 PM

THE FAIRMONT COPLEY PLACE 138 ST. JAMES AVENUE, BOSTON, MA

Join the ASE Education and Research Foundation for the 6th Annual Research Awards Gala in Boston. The evening will celebrate the accomplishments of awardees and the dynamic field of cardiovascular ultrasound while enjoying a theme of "Revolutionizing Research." Event proceeds support research activities that advance the progress and future of our field. Pre-purchased tickets are required for the Gala; tickets are not sold onsite. For more information, visit the ASE Foundation booth, located on the 3rd floor of the Hynes Convention Center.

SUNDAY, JUNE 14TH

26TH ANNUAL EDLER LECTURE

8:00 AM - 9:30 AM

BALLROOM B, LEVEL 3

Patrick O'Gara, MD, MACC, immediate past president of the ACC, and Director of Clinical Cardiology at Brigham & Women's Hospital has been named annually among the Top Doctors in Boston and the U.S. since 2001. His clinical activities are focused on patients with valvular heart disease, aortic disease, complex coronary artery disease, and other structural heart diseases.

CHALK TALKS

9:30 AM - 10:15 AM & 2:45 PM - 3:30 PM

EXHIBIT & POSTER HALL, 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, Dr. Pamela Douglas and Dr. William Zoghbi will be available to answer all of your questions about Valvular Heart

Disease. The afternoon break will be dedicated to Diastology and Pericardial Disease with Dr. Jae Oh and Dr. Sherif Nagueh.

ASE'S COMPREHENSIVE ECHOCARDIOGRAPHY TEXTBOOK SIGNING



9:30 AM - 10:15 AM

EXHIBIT & POSTER HALL, LEVEL 2

Meet Editors Goldstein, Khandheria, Kronzon, Lang, and Mor-Avi during the morning break and have them sign your copy of the ultimate echocardiography textbook. Copies of the textbook will be for sale at the ASE Headquarters booth in the Exhibit Hall and at the Product Sales booth on Level 3.

THE TRIUMPH OF HUMAN SPIRIT OVER ADVERSITY. RESILIENCE

4:05 PM - 4:50 PM

BALLROOM B, LEVEL 3

Dr. Roberto Canessa, a pediatric cardiologist from Montevideo, Uruguay, was recognized as a hero in the famous 1972 Andes plane crash that was documented in the best seller *Alive* by Piers Paul Reed and the 2008 award-winning documentary "Stranded: I've Come from a Plane That Crashed on the Mountains." Dr. Canessa was awarded his country's National Prize in Medicine in 1986 and twice has been awarded the Great National Prize in Medicine, in 1991 and 1999. He is in demand as a motivational speaker, having spoken at Massachusetts Institute of Technology, Harvard, Wharton School at the University of Pennsylvania, Royal College of Surgeons in England, and the American Heart Association. Don't miss Dr. Canessa's account of his amazing experience in this session.

MEMBER RECEPTION

5:00 PM - 6:00 PM

BOYLSTON HALLWAY, LEVEL 3

All attendees are invited to this complimentary welcome reception. Enjoy beverages and hors d'oeuvres while connecting with colleagues and friends.

ASE FOUNDATION HEELING HEARTS SCAVENGER HUNT & AFTER-PARTY

6:00 PM – 10:00 PM

(This event requires a separate registration.)

Start location.....Hynes Convention Center
Scavenger Hunt.....6:00 pm – 8:00 pm
Finish Location &8:00 pm – 10:00 pm
After-Party (Dillons Bar & Restaurant – 955 Boylston Street, Boston, MA)

Join the ASE Education and Research Foundation for a one-of-a-kind philanthropic team-building event on Sunday evening. Teams of 8-10 people will explore downtown Boston by foot, followed by an After-Party at Boston landmark, Dillons Bar & Restaurant. This event is sold by individual ticket and limited to the first 200 registrants. Tickets purchased for this event are U.S. tax deductible donations and support future educational scholarships and travel grants. Pre-purchased tickets are required for this event; tickets will not be sold at the starting line or at the After-Party. For more information or to purchase tickets, visit the ASE Foundation booth located on the 3rd floor of the Hynes Convention Center. Thank you to Lantheus Medical Imaging, Inc. and Siemens Medical Solutions USA, Inc. for their support of this event!

MONDAY, JUNE 15TH

ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION AND 16TH ANNUAL FEIGENBAUM LECTURE

8:00 AM – 9:30 AM

BALLROOM B, LEVEL 3

ASE is pleased to recognize Madhav Swaminathan, MD, FASE, of Duke University as the 16th Annual Feigenbaum Lecturer. ASE is proud to recognize Dr. Swaminathan's significant contributions to research in the field of echocardiography and his potential to continue at a high level of achievement. Dr. Swaminathan will present his lecture entitled "Echo Research in the Perioperative Space: As Easy As ABC...."

CHALK TALKS

9:30 AM – 10:15 AM & 2:45 PM – 3:30 PM

EXHIBIT & POSTER HALL, LEVEL 2

Don't miss the opportunity to get your clinical questions answered by expert faculty. During the morning break, Dr. Sanjiv Kaul and Dr. Jonathan Lindner will discuss Contrast. The afternoon break will feature Dr. Girish Shirali, Dr. Meryl Cohen, Dr. Shaine Morris, and Dr. Timothy Slesnick to discuss Pediatrics.

FELLOW AND EARLY CAREER MEMBER NETWORKING RECEPTION

2:45 PM – 3:30 PM

ROOM 300

The ASE Membership Steering Committee and Board of Directors invites fellow and early career physician and sonographer members for a dessert reception. Meet other members who are just beginning their careers, while networking with leaders in the field of echocardiography. Representatives from the special interest councils, the Membership Steering Committee and ASE Past Presidents will be there to share how ASE helped their careers. The desserts will be plentiful and the conversation will be meaningful. We hope to see you there.

GAME OF THRONES I & II: CLASSIC ECHO DEBATES

PART I - 10:15 AM – 11:45 AM

PART II - 3:30 PM – 5:00 PM

BALLROOM B, LEVEL 3 (PART I)

BALLROOM C, LEVEL 3 (PART II)

Is Multi-modality Imaging the New Standard of Care for Valvular Heart Disease? Is Echo More Cost-Effective than CT for Suspected Coronary Disease? Should Strain Imaging Replace LVEF? Listen to distinguished faculty as they debate these intriguing echo questions.

THREE-OF-A-KIND

5:00 PM – 6:30 PM

BALLROOM B, LEVEL 3

One of these things is not like the other: do you have what it takes to figure it out? Pick your team and hang on to your Audience Response System pad, as this raucous, but friendly, competition is between the entire audience! During this entertaining session, you will laugh while learning about a variety of diseases in an educational format that involves audience participation. It promises to be a lively and educational experience for all.

SPECIAL AWARDS

The ASE is pleased to recognize the following award recipients during the ASE Annual Awards Presentations.

2015 EDLER LECTURER



Patrick T. O'Gara, MD, MACC, Brigham and Women's Hospital, Boston, MA, will present the 26th Annual Edler Lecture. Dr. O'Gara is currently the Director of Clinical Cardiology at BWH, and immediate past president of the ACC. Dr. O'Gara will present his lecture during the ASE

Awards Presentation and Edler Lecture plenary session, Sunday, June 14, which will be held from 8:00 am - 9:30 am in Ballroom B on Level 3 of the Hynes Convention Center. Created in 1990, the annual Edler Lecture honors the founder of echocardiography, Dr. Inge Edler.

2015 FEIGENBAUM LECTURER



Madhav Swaminathan, MD, FASE, Duke University Medical Center, Durham, NC, has been named the 16th Annual Feigenbaum Lecturer. The Feigenbaum Lecture was named in honor of the founder and first president of ASE, Harvey Feigenbaum, MD, FASE.

Dr. Feigenbaum will present the award personally to Dr. Swaminathan.

This lectureship is awarded to a young investigator in recognition of his/her significant contributions to research in the field of echocardiography and his/her potential to continue at a high level of achievement. Dr. Swaminathan will present his lecture titled, "Echo Research in the Perioperative Space: As easy as A B C..." during the 2015 Arthur E. Weyman Young Investigator's Award competition and Annual Feigenbaum Lecture from 8:00 am - 9:30 am, Monday, June 15, in Ballroom B on Level 3 of the Hynes Convention Center.

LIFETIME ACHIEVEMENT AWARDS

The Lifetime Achievement award recognizes individuals who have had a lifetime of outstanding achievements in the field of cardiovascular ultrasound and have served as a role model 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.



Steven A. Goldstein, MD, FASE, MedStar Washington Hospital Center, Washington, DC, has been named as the 2015 Physician Lifetime Achievement Award recipient. Dr. Goldstein is an internationally recognized educator and has furthered the understanding of basic and complex echocardiographic

topics around the world. He has taken leadership roles in ASE educational initiatives such as ASE's newest textbook Comprehensive Echocardiography. He has also been actively involved with the National Board of Echocardiography. Dr. Goldstein epitomizes excellence in the field of echocardiography and is a worthy recipient for ASE's Lifetime Achievement Award.



Margaret (Peg) L. Knoll, RDCS, FASE, University of California-Irvine Health, Orange, CA, has been named as the 2015 Sonographer Lifetime Achievement Award recipient.

Peg's achievements and impact in the field of cardiovascular ultrasound are far-reaching. Over the past 36 years, she has worked as a staff sonographer, research sonographer, clinical coordinator, lead sonographer, educator, consultant, research sonographer, core lab coordinator, and she has trained technologists on various echo protocols in multicenter trials. She is also widely published in the area of echocardiography and is devoted to education. Peg has been a long-time ASE ambassador, welcoming and involving new members in ASE. Her spirit exemplifies sonographer career achievement and she clearly demonstrates excellence in the field.

MERITORIOUS SERVICE AWARD



The ASE Meritorious Service Award recognizes individual members for their substantial and generous efforts to the Society's betterment. The ASE is pleased to recognize this year's recipient, **Roberto M. Lang, MD, FASE from the University of Chicago**

Medical Center, Chicago, IL. Dr. Lang has a long and distinguished record of service to the society. He has been involved with many facets of ASE's work, some of which include ASE President, Board of Directors, writing groups, Education and Educational Products Committees, Finance, Foundation, Nominating, Research, and more. He has served as program director for several ASE educational courses, including chairing the Annual Scientific Sessions. Dr. Lang is also an international ambassador for ASE.

RICHARD POPP EXCELLENCE IN TEACHING AWARD



Marielle Scherrer-Crosbie, MD, PhD, FASE from Massachusetts General Hospital in Boston, MA, has been named the 15th annual recipient of the Richard Popp Excellence in Teaching Award. Dr. Scherrer-Crosbie was nominated by her peers for her

excellence in teaching and mentoring. The award is named in honor of ASE'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



Michael K. Cahalan, MD, University of Utah Health Care, Salt Lake City, UT, has been named the 3rd recipient of the Outstanding Achievement in Perioperative Echocardiography Award. The ASE Council on Perioperative Echocardiography recognizes an

individual who has made significant clinical, research and/or educational contributions to the development of the field of perioperative echocardiography with presentation of this award.

PEDIATRIC AND CONGENITAL HEART DISEASE COUNCIL FOUNDERS' AWARD



Hugh D. Allen, MD, from Texas Children's Hospital, Baylor College of Medicine, Houston, TX, has been named as the 14th recipient of the ASE Council on Pediatric and Congenital Heart Disease Founders' Award.

This award recognizes continued major scholarly contributions to the field of pediatric echocardiography. Dr. Allen will present his lecture during the Founders' Award Presentation on Saturday, June 13, from 3:00 pm - 3:30 pm in Room 304/306.

HONORARY FASE



The Fellow of the American Society of Echocardiography (FASE) designation recognizes individuals dedicated to cardiovascular ultrasound who exemplify the highest achievement in the profession. The International Relations Advisory Committee,

in conjunction with the ASE Executive Committee, nominated **Dr. Roberto Canessa, MD, FASE, from Montevideo, Uruguay,** to receive an "Honorary FASE" designation in 2015. This honor is given to individuals who have made significant contributions to the field of cardiovascular ultrasound and have played strong roles in building international relationships with the Society.

2015 ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION FINALISTS*

ASE is pleased to recognize the finalists of the 2015 Arthur E. Weyman Young Investigator's Award Competition (YIA). This annual competition is supported by the National Board of Echocardiography (NBE) in honor of their first president, Arthur E. Weyman, MD, FASE. These investigators will present their research during the 2015 Arthur E. Weyman YIA Competition and 16th Annual Feigenbaum Lecture plenary from 8:00 am – 9:30 am on Monday, June 15 in Ballroom B on the 3rd floor of the Hynes Convention Center. After the presentations, the winner will be selected by a panel of echo experts.

- » **Bruno Garcia Tavares, MD, Heart Institute (InCor), University of São Paulo Medical School, São Paulo, Brazil** – “Safety and Feasibility of Diagnostic Ultrasound High Mechanical Index Impulses in Restoring Epicardial Flow in Acute ST Segment Elevation Myocardial Infarction in Humans”
- » **Sukrit Narula, BA, Icahn School of Medicine at Mount Sinai, New York, NY** – “Automated Morphological and Functional Phenotyping of Human Heart with Feature Tracking of 2D Echocardiographic Images Using Machine Learning Algorithms”
- » **Sanjeev Bhavnani, MD, Scripps Health, Scripps Translational Science Institute, San Diego, CA** – “A Randomized Trial Integrating Pocket Ultrasound with mHealth Diagnostics in Modern Structural Heart Disease Clinics”
- » **Yuka Yamamoto, MD, Department of OB&GYN, Juntendo University Faculty of Medicine, Tokyo, Japan** – “Evaluation of Myocardial Function According to Early Diastolic Intraventricular Pressure Differences in Fetuses”

2015 SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION FINALISTS*

The ASE Foundation is pleased to recognize the finalists of the 2015 Sonographer Investigator's Award Competition. Created to highlight sonographer-led research, this competition recognizes non-physicians who served as the primary investigator on their project of original work. These investigators will make a moderated poster presentation of their research from 12:00 pm – 1:00 pm on Sunday, June 14 in the Exhibit & Poster Hall.

- » **Amanda Dillon, RDCS, Kingston Heart Clinic, Kingston, ON, Canada** – “Plaque Score Trumps Framingham Risk Score for Predicting Cardiovascular Risk”
- » **Megan Yamat, RDCS, RCS, University of Chicago Hospital, Chicago, IL** – “Comprehensive 2D Echocardiographic Interrogation of the Tricuspid Valve using Knowledge Derived from 3D Echocardiography”
- » **Lanqi Hua, RDCS, FASE, Massachusetts General Hospital, Boston, MA** – “Tissue Motion Annular Displacement for Assessment of Global Right Ventricular Performance”
- » **Eric Kruse, RDCS, RVT, University of Chicago, Chicago, IL** – “Doppler Echocardiographic Assessment of the Left Ventricular Assist Device Outflow Cannula in the Screening of Cannula Malfunction”

2015 ASE FOUNDATION ABSTRACT PRESENTER TRAVEL GRANT RECIPIENTS*

The ASE Foundation is pleased to recognize this year's recipients of Abstract Presenter Travel Grants for attendance at the 26th Annual ASE Scientific Sessions. The presentation of original research from around the world illustrating exciting new developments in cardiovascular ultrasound is an integral component of our annual meeting, and each of these young presenters were awarded \$1,000 toward his/her travel expenses, along with registration support.

- » **Yohei Akazawa, MD, PhD, Shinshu University, Matsumoto, Nagano, Japan**
- » **Tengku Winda Ardini, MD, University of Sumatera Utara, Medan, Indonesia**
- » **Michelle Carlson, MD, Hennepin County Medical Center, Minneapolis, MN**
- » **Andrew L. Cheng, MD, Children's Hospital Los Angeles, Los Angeles, CA**
- » **Ming Chu, MD, Nanjing Medical University First Affiliated Hospital, Nanjing, Jiangsu, China**
- » **Zaher Fanari, MD, Jefferson Medical College/ Christiana Care Health System, Wilmington, DE**
- » **Ricardo Fonseca, MBBS, Menzies Institute for Medical Research, University of Tasmania, Hobart, Tasmania, Australia**
- » **Prakriti Gaba, BS, Mayo Clinic, Rochester, MN**
- » **Xue Gong, MD, Zhongshan Hospital, Fudan University, Shanghai, China**

- » **Amir Hodzic, MD, University of Montreal Hospital Center, Montreal, Quebec, Canada**
- » **Quan Huynh, MD, PhD, Menzies Institute for Medical Research, Hobart, Tasmania, Australia**
- » **Joyce Johnson, MD, MS, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL**
- » **Attila Kovács, MD, Semmelweis University Heart and Vascular Center, Budapest, Pest, Hungary**
- » **Farnoosh Larti, MD, Tehran University of Medical Science, Imam Khomeini Complex Hospital, Tehran, Iran**
- » **Alex P. Lee, MD, FRCP, The Chinese University of Hong Kong, Shatin, Hong Kong, China**
- » **Jesse W. Lee, MD, Rady Children's Hospital, San Diego, CA**
- » **Sumeet S. Mitter, MD, Northwestern University Feinberg School of Medicine, Chicago, IL**
- » **Patsy W. Park, MD, Medical University of South Carolina, Charleston, SC**
- » **Daniela Carmo Rassi, MS, Clinical Hospital of the Federal University of Goiás, Goiania, Goiás, Brazil**
- » **Zainab Samad, MD, MHS, Duke University, Durham, NC**
- » **Ericka Scheller McLaughlin, DO, Texas Children's Hospital/Baylor College of Medicine, Houston, TX**
- » **Amita Singh, MD, University of Chicago Medical Center, Chicago, IL**
- » **Arjun Sinha, MD, University of California at San Francisco, San Francisco, CA**
- » **Megan M. SooHoo, MD, Children's Hospital Colorado Heart Institute, Aurora, CO**
- » **Masataka Sugahara, MD, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan**
- » **Minmin Sun, MD, Zhongshan Hospital, Fudan University, Shanghai, China**
- » **Anahita Tavoosi, MD, Tehran University of Medical Sciences, Tehran, Iran**
- » **Yuta Torii, RCS, RVS, Tokushima University Hospital, Tokushima, Japan**
- » **Bethany Wisotzkey, MD, Seattle Children's Hospital, Seattle, WA**
- » **Megan Yamat, RDCS, RCS, FASE, University of Chicago Hospital, Chicago, IL**

2015 TOMTEC INNOVATOR RESEARCH TRAVEL GRANT*

The ASE Foundation is pleased to recognize Diego Medvedofsky, MD from the University of Chicago Medical Center in Chicago, Illinois as the recipient of the 2015 TomTec Innovator Research Travel Grant.

Supported by a grant to the ASE Foundation from TomTec Imaging Systems, this annual award is given to assist a promising young researcher presenting his/her work at the ASE Scientific Sessions. For more than 20 years, TomTec has driven innovations in echocardiography and the ASE Foundation thanks them for investing in the young investigators who will continue to drive our field forward. Dr. Medvedofsky received \$4,000 to support his/her travel expenses.

2015 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 ASE 2015 Scientific Sessions and limited travel support. This year's recipients were chosen from a large number of students who were nominated by their program directors. The 2015 scholarship award recipients will be recognized during ASE's Annual Awards Presentation and Edler Lecture from 8:00 – 9:30 am, Sunday, June 14 in the Ballroom B.

- » **Alyssa Brooks, Yale-New Haven Hospital School of Diagnostic Ultrasound, New Haven, CT**
- » **Hoa Tuyet Gip, University of Arkansas for Medical Sciences DMS Program, Little Rock, AR**
- » **Brittney Guile, University of Wisconsin-Milwaukee DMS Program, Milwaukee, WI**
- » **Genevieve Hammett, Clemson University CVT Program, Clemson, SC**
- » **Rianna Herbolingo, Hudson Valley Community College DMS Program, Troy, NY**
- » **Steven Kiyokawa, Bellevue College DMS Program, Bellevue, WA**
- » **Christina Landish, Wheaton Franciscan Healthcare-St. Francis Hospital DMS Program, Milwaukee, WI**
- » **Aubrey Moder, Mayo Clinic DMS Program, Rochester, MN**
- » **Jason Morgun-Le, Grossmont College CVT Program, El Cajon, CA**

- » **Cristy Murray, South Hills School of Business & Technology DMS Program, State College, PA**
- » **Michelly O'Malley, University of Maryland Baltimore County DMS Program, Baltimore, MD**
- » **Catherine Sistrunk, Louisiana State University Health Sciences Center CVT Program, New Orleans, LA**
- » **Madeline Schiminger, Johns Hopkins Hospital Cardiac Sonography Program, Baltimore, MD**
- » **Brian Whittemore, Bunker Hill Community College DMS Program, Boston, MA**
- » **Meghan Wilson, Hoffman Heart & Vascular Institute School of Cardiac Ultrasound, Hartford, CT**

2015 ULTRAECCHO, LTD. CARDIOVASCULAR SONOGRAPHER STUDENT TRAVEL GRANT*

This award, supported by a grant to the ASE Foundation, 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 annual Scientific Sessions or other ASE sponsored educational course. The 2015 student travel grant has been awarded to **Alisha Ciglar, Gwynedd Mercy College, Gwynedd Valley, PA**. This award will be recognized during the Council on Cardiovascular Sonography Business Meeting, on Saturday, June 13 at 8:00 am in Ballroom A.

2015 FEIGENBAUM CARDIOVASCULAR SONOGRAPHER STUDENT TRAVEL GRANT*

This 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 ASE Scientific Sessions or other ASE sponsored educational courses. The 2015 student travel grant has been awarded to **Angela Hull, Forsyth Technical Community College, Winston-Salem, NC**. This award will be recognized during the Council on Cardiac Sonographer Business Meeting, on Saturday, June 13 at 8:00 am in Ballroom A.

2015 COUNCIL TRAVEL GRANT AWARDS*

The ASE Foundation sponsors Council Travel Grant

Awards to fellows, trainees and sonographers to fund their attendance at the ASE Scientific Sessions. These travel grants are part of an ongoing effort by the Foundation, with the assistance of the Council Boards, to encourage trainees in cardiovascular specialties to focus on the respective echocardiography sub-specialty. In addition, the Council Boards 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 PEDIATRIC AND CONGENITAL HEART DISEASE TRAVEL GRANT AWARD RECIPIENTS

- » **Sandhya Ramlogan, MD, Children's Mercy Hospitals and Clinics, Kansas City, MO**
- » **Sara Swanson, MD, PhD, University of Michigan, Ann Arbor, MI**

COUNCIL ON VASCULAR ULTRASOUND TRAVEL GRANT AWARD RECIPIENTS

- » **Amanda Dillon, RDCS, Kingston Heart Clinic, Kingston, ON, Canada**
- » **Mandeep Randhawa, MD, Cleveland Clinic, Cleveland, OH**

COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY TRAVEL GRANT AWARD RECIPIENTS

- » **Nadira Hamid, MD, National Heart Centre Singapore, Singapore, Singapore**
- » **Sharon McCartney, MD, Duke University Medical Center, Durham, NC**

COUNCIL ON CARDIOVASCULAR SONOGRAPHY TRAVEL GRANT AWARDS

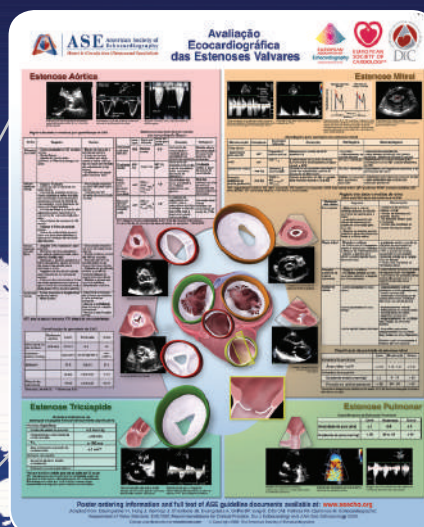
- » **Keri O'Farrell, BA, RDCS, Banner University of Arizona Medical Center, Tucson, AZ**
- » **Ashwin Venkatesh, MSc, RCS, RDCS, Sri Sathya Sai Institute of Higher Medical Sciences, Bangalore, India**

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Providing high quality cardiac care to the underserved at the 2014 Care Harbor clinic in Los Angeles, CA.



Translating echo guidelines to improve patient care worldwide. Pictured to the left: the ASE guideline poster "Echocardiographic Assessment of Valvular Stenosis" translated to Portuguese.



Awarding scholarships and grants to foster young professionals at the 2014 Scientific Sessions in Portland, Oregon. Pictured above: Yanfeng Ding, 2014 Alan D. Waggoner Scholarship Award recipient.



Training healthcare workers to standardize patient care at the 2014 ASEF VALUES Program in Bangalore, India.



ASE Foundation

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The ASE Foundation is committed to training the next generation of cardiac ultrasound professionals. Through disseminating and translating guidelines, providing clinicians with scholarships and travel grants, investing in research, and participating in humanitarian missions focusing on education and provision of care, the ASE Foundation is dedicated to making a world of difference for the echocardiography field.

Contributions can be made online at asefoundation.org/donate, by check, at an ASE exhibit booth, or by contacting the Foundation Coordinator at 919-297-7169 or foundation@asecho.org.

Learn more at asefoundation.org. We appreciate your support.



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Director, Cardiac Non-Invasive Laboratory,
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ORIGINAL SCIENCE & CLINICAL CASES PRESENTATION SCHEDULE

SUNDAY, JUNE 14, 2015

**CL PEDIATRIC COUNCIL: CASE-BASED
LEARNING (C1)**

**Presented: 7:00 am – 8:00 am
Room 304/6 - Page 70**

TOPICS

Clinical Cases: Cardiovascular Ultrasound Imaging
in Diagnosis, Clinical Decision-Making, and Patient
Management.....C1-01 through C1-03

R POSTER SESSION 1 (P1)

**Presented: 9:00 am – 4:00 pm
Exhibit & Poster Hall – Pages 72-91**

Meet the Investigators: 12:00 pm – 1:00 pm

Moderated Poster Session: 12:00 pm – 1:00 pm

TOPICS

Contrast Echocardiography
and New Technology.....P1-01 through P1-17
Echocardiography in Systemic Disease
(DM, HTN, Obesity, Cancer) / Pericardial /
Primary Myocardial.....P1-18 through P1-54
Ventricular Function /
Myocardial Mechanics.....P1-55 through P1-118
Ischemic Heart Disease.....P1-119 through P1-132
Doppler / Hemodynamics.....P1-133 through P1-149
Emerging Use of Echocardiography / Point of Care
Echocardiography.....P1-150 through P1-158
Value of Echocardiography
(Quality and Cost).....P1-159 through P1-169
Clinical Cases: Cardiovascular Ultrasound Imaging in
Diagnosis, Clinical Decision-Making,
and Patient Management.....P1-170 through P1-208

**R 2015 SONOGRAPHER INVESTIGATOR'S
AWARD COMPETITION (SIA)**

Presented: 12:00 pm – 1:00 pm

Exhibit & Poster Hall – Page 67

TOPICS

Vascular Disease.....SIA-1
3D Echocardiography.....SIA-2
Ventricular Function /
Myocardial Mechanics.....SIA-3
Doppler / Hemodynamics.....SIA-4

CL CASE COMPETITION 2015 (C2)

**Presented: 3:30 pm – 5:00 pm
Room 302 - Page 70-71**

TOPICS

Clinical Cases: Cardiovascular Ultrasound Imaging in
Diagnosis, Clinical Decision-Making,
and Patient Management.....C2-01 through C2-08

**R S 2015 ARTHUR E. WEYMAN YOUNG
INVESTIGATOR'S AWARD COMPETITION (YIA)**

Presented: 8:00 am – 9:30 am

Ballroom B - Page 66

TOPICS

Emerging Use of Echocardiography / Point of Care
Echocardiography.....YIA-1 and YIA-3
Ventricular Function /
Myocardial Mechanics.....YIA-2 and YIA-4

R POSTER SESSION 2 (P2)

Presented: 9:00 am – 4:00 pm

Exhibit & Poster Hall – Pages 92-112

Meet the Investigators: 12:00 pm – 1:00 pm

Moderated Poster Session: 12:00 pm – 1:00 pm

TOPICS

Vascular Disease.....P2-01 through P2-12
Outcomes /
Comparative Effectiveness.....P2-13 through P2-26
Valvular Heart Disease.....P2-27 through P2-59
Pediatric and Adult
Congenital Heart Disease.....P2-60 through P2-146
Intraprocedural Echocardiography (Operating Room and
Interventional Lab) / TEE.....P2-147 through P2-160
3D Echocardiography.....P2-161 through P2-193
Echocardiography in SOE / Arrhythmias /
Atrial Function.....P2-194 through P2-212

TUESDAY, JUNE 16, 2015

R PC PEDIATRIC ORAL ABSTRACTS (PC)

Presented: 8:00 am – 9:30 am

Room 304/6 - Page 69

TOPICS

Pediatric and Adult
Congenital Heart Disease.....PC-01 through PC-06

2015 ABSTRACT GRADERS

ASE sincerely thanks the following volunteers for their time reviewing this year's submissions.

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Wendy Tsang, MD

Thomas Van Houten, MPH, RDCS, FASE

Alan D. Waggoner, MHS, RDCS, FASE

R. Parker Ward, MD, FASE

Kevin Wei, MD, FASE

Gillian A. Whalley, PhD, FASE

Ronald H. Wharton, MD, FASE

Susan E. Wieggers, MD, FASE

David H. Wiener, MD, FASE

Sandra A. Witt, RDCS, FASE

Anna Woo, MD, SM

Malissa J. Wood, MD, FASE

Luciana T. Young, MD, FASE

Adel K. Younoszai, MD, FASE

Xin Zeng, MD, RDCS, FASE

RESEARCH AWARD COMPETITIONS

R S 2015 ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION (YIA)

The ASE Foundation congratulates this year's finalists, and thanks the National Board of Echocardiography™ (NBE) for its continued support of this annual competition.

Poster Presentations: Saturday, June 13 through Monday, June 15 in the Exhibit & Poster Hall

Oral Presentations: Monday, June 15, 8:00 am – 9:30 am in Ballroom B

Judges: R. Grimm, G. Rose, T. Abraham, P. Grayburn, G. Habib, S. Nakatani, V. Rigolin, A. Weyman

TOPICS

Emerging Use of Echocardiography / Point of Care Echocardiography.....YIA-1 and YIA-3
Ventricular Function /
Myocardial Mechanics.....YIA-2 and YIA-4

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

YIA-1

Safety and Feasibility of Diagnostic Ultrasound High Mechanical Index Impulses in Restoring Epicardial Flow in Acute ST Segment Elevation Myocardial Infarction in Humans

Bruno Garcia Tavares¹, Jeane M. Tsutsui¹, Miguel Osmar Aguiar¹, Diego Garcia¹, Mucio T. Oliveira¹, Alexandre Soeiro¹, Jose C. Nicolau¹, Pedro Lemos¹, Roberto Kalil¹, Thomas R. Porter², Wilson Mathias, Jr.¹. ¹Heart Institute (InCor) - University of São Paulo Medical School, São Paulo, Brazil; ²University of Nebraska Medical Center, Omaha, NE

Author Disclosures: T.R. Porter – 1 (Bracco) and 4 (Astellas, Lantheus)

Presented by Bruno Garcia Tavares

YIA-2

Automated Morphological and Functional Phenotyping of Human Heart with Feature Tracking of 2D Echocardiographic Images Using Machine Learning Algorithms

Sukrit Narula, Shameer Khader, Sharath Vallabhajosyula, Alaa M. Omar, Joel T. Dudley, Partho P. Sengupta. Icahn School of Medicine at Mount Sinai, New York, NY

Author Disclosures: A.M. Omar – 2 (Edwards Lifesciences); J.T. Dudley – 2 (AstraZeneca, Janssen Pharmaceuticals) and 3 (Ayasdi, Inc., NuMedii, Inc., Ontomics, Inc.); P.P. Sengupta – 2 (Edwards Lifesciences, Saffron Technology, Tele-Health Now) and 4 (Forest Laboratories)

Presented by Sukrit Narula

YIA-3

A Randomized Trial Integrating Pocket Ultrasound with mHealth Diagnostics in Modern Structural Heart Disease Clinics

Sanjeev Bhavnani¹, Srikanth Sola², Ashwin Venkateshvaran², David Adams³, Partho P. Sengupta⁴. ¹Scripps Health, Scripps Translational Science Institute, San Diego, CA; ²Sri Sathya Sai Hospital of Higher Medical Sciences, Whitefield, India; ³Duke University Medical Center, Durham, NC; ⁴Mount Sinai Medical Center, New York, NY

Author Disclosures: None

Presented by Sanjeev Bhavnani

YIA-4

Evaluation of Myocardial Function According to Early Diastolic Intraventricular Pressure Difference in Fetuses

Yuka Yamamoto¹, Ken Takahashi², Keiichi Itatani³, Yo Takemoto¹, Maki Toduka², Makiko Yamada², Kagami Miyaji³, Toshiaki Shimizu², Atsuo Itakura¹, Satoru Takeda¹. ¹Department of OB&GYN, Juntendo University Faculty of Medicine, Tokyo, Japan; ²Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan; ³Department of Hemodynamic Analysis, Kitasato University School of Medicine, Tokyo, Japan

Author Disclosures: None

Presented by Yuka Yamamoto

R 2015 SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION (SIA)

The ASE Foundation congratulates this year's finalists.

Poster Presentations: Saturday, June 13 through Monday, June 15 in the Exhibit & Poster Hall

Moderated Poster Presentations: Sunday, June 14, 12:00 pm – 1:00 pm in the Exhibit & Poster Hall

Judges: R. Grimm, G. Rose, T. Belcik, B. Roberts

TOPICS

Vascular Disease.....	SIA-1
3D Echocardiography.....	SIA-2
Ventricular Function / Myocardial Mechanics.....	SIA-3
Doppler / Hemodynamics.....	SIA-4

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

SIA-1

Plaque Score Trumps Framingham Risk Score for Predicting Cardiovascular Risk

Amanda Dillon¹, Amer Johri², Daniel Brouillard¹, Ursula Jurt¹, David Armstrong¹, Murray Matangi¹. ¹Kingston Heart Clinic, Kingston, ON, Canada; ²Division of Cardiology, Queens University, Kingston, ON, Canada

Author Disclosures: None

Presented by Amanda Dillon

SIA-2

Comprehensive 2D Echocardiographic Interrogation of the Tricuspid Valve using Knowledge Derived from 3D Echocardiography

Megan Yamat, Karima Addetia, Preston Ferrara, Lynn Weinert, Anuj Mediratta, Mita Patel, Diego Medvedofsky, Victor Mor-Avi, Roberto M. Lang. University of Chicago Hospital, Chicago, IL

Author Disclosures: None

Presented by Megan Yamat

SIA-3

Tissue Motion Annular Displacement for Assessment of Global Right Ventricular Performance

Lanqi Hua, Xin Zeng, Hong-wen Fei, Tanya Michnevit, Merideth Weiner, Jane E. Marshall, Marielle Scherrer-Crosbie, Michael H. Picard. Massachusetts General Hospital, Boston, MA

Author Disclosures: None

Presented by Lanqi Hua

SIA-4

Doppler Echocardiographic Assessment of the Left Ventricular Assist Device Outflow Cannula in the Screening of Cannula Malfunction

Eric Kruse, Jonathan Grinstein, Gabriel Sayer, Savitri Fedson, Gene H. Kim, Atman Shah, Jonathan Paul, Valluvan Jeevanandam, Nir Uriel, Roberto M. Lang. University of Chicago, Chicago, IL

Author Disclosures: R.M. Lang – 1, 2 (Phillips)

Presented by Eric Kruse

R 2014 EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING YOUNG INVESTIGATOR'S AWARD WINNER (EUR)

Poster Presentation: Saturday, June 13 through Monday, June 15 in the Exhibit & Poster Hall

Moderated Poster Presentation: Monday, June 15, 12:00 pm – 1:00 pm in the Exhibit & Poster Hall

TOPICS

Contrast Echocardiography and New Technology.....	EUR-1
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Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

EUR-1

Molecular Imaging of Inflamed Atherosclerotic Plaque with 18F-anti-VCAM-1 Nanobody and PET/CT

Gezim Bala¹, A. Blykers², C. Xavier², K. Gillis¹, S. Tierens², B. Descamps³, C. Vanhove³, T. Lahoutte¹, B. Cosyns¹, S. Hernot². ¹University Hospital (UZ) Brussels, Brussels, Belgium; ²Free University of Brussels (VUB), Brussels, Belgium; ³Ghent University, Ghent, Belgium

Author Disclosures: None

Presented by Gezim Bala

**R 2015 JAPANESE SOCIETY OF
ECHOCARDIOGRAPHY YOUNG INVESTIGATOR'S
AWARD WINNER (JSE)**

**Poster Presentation: Saturday, June 13 through
Monday, June 15 in the Exhibit & Poster Hall**

**Moderated Poster Presentation: Monday, June 15,
12:00 pm – 1:00 pm in the Exhibit & Poster Hall**

TOPICS

Ventricular Function / Myocardial Mechanics.....JSE-1

*Author Disclosure Key: 1) Speakers' Bureau; 2)
Consultant/Advisor; 3) Stock Ownership (not including
stocks owned in a managed portfolio); 4) Research Grant
(primary investigator); 5) Employment Affiliation; 6)
Royalty/Patents*

JSE-1

The Prognostic Value of Diastolic Wall Strain as an Index of Myocardial Stiffness in Chronic Heart Failure Patients with Beta-blockade

Yuko Soyama, Toshiaki Mano, Shinichi Hirotsu, Akiko Goda,
Mitsuru Masaki, Shohei Fujiwara, Masataka Sugahara, Kumiko
Masai, Aika Matsumoto, Kazuo Komamura, Masaaki Lee-
Kawabata, Takeshi Tsujino, Tooru Masuyama. Hyogo College of
Medicine, Nishinomiya, Japan

Author Disclosures: None

Presented by Yuko Soyama

PEDIATRIC ORAL ABSTRACTS (PC)

TUESDAY, JUNE 16, 2015

R PC PEDIATRIC ORAL ABSTRACTS (PC)

Presented: 8:00 am – 9:30 am

Room 304/6

TOPICS

Pediatric and Adult

Congenital Heart Disease.....PC-01 through PC-06

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

PC-01

Pulmonary Artery Acceleration Time Accurately Predicts Catheter Measured Pulmonary Hemodynamics in Children: A Simultaneous Catheter-Doppler Correlative Study

Philip T. Levy¹, Georgeann K. Groh², Meghna Patel², Abeer Hamdy², Timothy J. Sekarski², Diana P. Hartman², Craig L. Meyers², Rebecca D. Roiger², Joshua J. Murphy², Mark R. Holland³, Gautam K. Singh². ¹Goryeb Children's Hospital, Morristown, NJ; ²Washington University Medical School, St. Louis, MO; ³Indiana University-Purdue University, Indianapolis, IN

Author Disclosures: None

PC-02

Left Ventricular Diastolic Dysfunction Secondary to Adverse Ventricular Interdependence in Children with Pulmonary Hypertension

Dale Burkett¹, Cameron Slorach², Sonali Patel¹, Andrew Redington², D. Dunbar Ivy¹, Luc Mertens², Adel Younoszai¹, Mark Friedberg². ¹Children's Hospital Colorado, Aurora, CO; ²Hospital for Sick Children, Toronto, ON, Canada

Author Disclosures: None

PC-03

Determinants of Productivity: Survey Analysis from the American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity (C-PELP)

Shubhika Srivastava¹, Vivekananda Allada², Brian Soriano³, Craig Fleishman⁴, Adel Younoszai⁵, Howard Andrews⁶, Andrea Van Hoeve⁷, Leo Lopez⁸, Wyman W. Lai⁹. ¹Mount Sinai Medical Center, New York, NY; ²Children's Hospital at University of Pittsburgh, Pittsburgh, PA; ³Seattle Children's Hospital, Seattle, WA; ⁴Arnold Palmer Institute, Orlando, FL; ⁵Children's Hospital Colorado, Denver, CO; ⁶Columbia University Medical Center, New York, NY; ⁷ASE, Morrisville, NC; ⁸Miami Children's Hospital, Miami, FL; ⁹NewYork-Presbyterian, Morgan Stanley Children's Hospital; Columbia University Medical Center, New York, NY

Author Disclosures: None

PC-04

Validation of Non-invasive Measures of Contractility in Children: A Simultaneous Echocardiography and Conductance Catheterization Study

Shahryar M. Chowdhury¹, Ryan J. Butts¹, Carolyn L. Taylor¹, Karen S. Chessa¹, Girish S. Shirali², G. Hamilton Baker¹.

¹Medical University of South Carolina, Charleston, SC;

²Children's Mercy Hospital, Kansas City, MO

Author Disclosures: None

PC-05

Fetal Cerebrovascular Redistribution and Ascending Aorta Diameter Predict Postnatal Cerebral Dysmaturation in Neonates with Congenital Heart Disease

Jodie K. Votava-Smith¹, Lisa B. Paquette¹, Jay D. Pruetz¹, Vincent Lee², Hollie A. Jackson¹, Stefan Bluml¹, Ashok Panigrahy². ¹Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA; ²Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA

Author Disclosures: None

PC-06

The Effect of Chronic Maternal Hyperoxygenation on Aortic and Mitral Valve Annular Dimensions in Fetuses with Left Heart Hypoplasia

Diego A. Lara¹, Shaine A. Morris¹, Shiraz A. Maskatia¹, Melissa Karlsten¹, Maggie Nguyen², Lacey Schoppe², S. Kristen Sexson-Tejtel¹, Jianhong Zhang², Keila N. Lopez¹, Emily J. Lawrence¹, Shelley Andreas¹, Yunfei Wang², Michael Belfort¹, Rodrigo Ruano¹, Nancy A. Ayres¹, Carolyn Altman¹, Kjersti Aagaard¹, Judith Becker¹. ¹Baylor College of Medicine, Houston, TX; ²Texas Children's Hospital, Houston, TX

Author Disclosures: None

CLINICAL CASES

(C1 & C2)

SUNDAY, JUNE 14, 2015

CL PEDIATRIC COUNCIL: CASE-BASED LEARNING (C1)

Presented: 7:00 am – 8:00 am

Room 304/6

TOPICS

Clinical Cases: Cardiovascular Ultrasound Imaging in Diagnosis, Clinical Decision-Making, and Patient Management.....C1-01 through C1-03

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

C1-01

Use of 3-Dimensional Transesophageal Echocardiography in a Case of Traumatic Tricuspid Regurgitation

Ericka Scheller McLaughlin, Antonio Mott, Charles Fraser, Robert Loar, Iki Adachi, Shiraz Maskatia. Baylor College of Medicine, Houston, TX

Author Disclosures: None

C1-02

Ruptured Right Coronary Sinus of Valsalva Aneurysm in an Infant

David J. Steflik, Minoo Kavarana, Shahryar M. Chowdhury. Medical University of South Carolina, Charleston, SC

Author Disclosures: None

C1-03

A Novel Case of Double Outlet Left Ventricle with Intact Ventricular Septum

Christine Tracy, CR Patel. Akron Children's Hospital, Akron, OH

Author Disclosures: None

CL CASE COMPETITION 2015 (C2)

Presented: 3:30 pm – 5:00 pm

Room 302

TOPICS

Clinical Cases: Cardiovascular Ultrasound Imaging in Diagnosis, Clinical Decision-Making, and Patient Management.....C2-01 through C2-08

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

C2-01

Unusual Form of Atrial Septal Defect and the Importance of Modified Off Axis Echocardiographic Views: Unroofing of Coronary Sinus

Evelina Petrovets, Deborah Agler, Wael Jaber. Cleveland Clinic, Cleveland, OH

Author Disclosures: None

C2-02

A Complicated Case of Mitral Valve Replacement: Echo Guided Successful Interventions

Rajesh Janardhanan¹, Kai R. Tey¹, Justin Z. Lee¹, Charles T. Hennemeyer², Kapildeo Lotun¹. ¹Sarver Heart Center, University of Arizona, Tucson, AZ; ²Department of Interventional Radiology, University of Arizona, Tucson, AZ

Author Disclosures: None

C2-03

Aortic Valve Repair is a Good Option in Adults with Aortic Insufficiency and Stenosis Resulting From a Discrete Subaortic Membrane

Pamela Sears-Rogan, Zuyue Wang, Steven Goldstein, Ammar S. Bafi. Medstar Washington Hospital Center, Washington, DC

Author Disclosures: None

C2-04

Assist Device Thrombosis - Echocardiographic Findings of a Clogged Pump

Eric Kruse, Karima Addetia, Francesco Maffessanti, Keith Collins, Gabriel Sayer, Ota Takeyoshi, Nir Uriel, Roberto M. Lang. University of Chicago Medical Center, Chicago, IL

Author Disclosures: None

C2-05

Unusual Diagnosis of a Mass Located in the Interventricular Septum: Ectopic Thyroid (Struma Cordis)

Daniela Carmo Rassi¹, Viviane Tieme Hotta², Juliana Santana Freitas Mota¹, Larissa Pereira da Costa Sampaio¹, Aleksander Dobrianskyj¹, Salvador Rassi¹. ¹Clinical Hospital of the Federal University of Goias, Goiania, Brazil; ²Heart Institute of the University of Sao Paulo, Sao Paulo, Brazil

Author Disclosures: None

C2-06

Bi-atrial Compression Secondary to Large Ascending and Descending Aortic Aneurysms

Saqib A. Gowani, Rama K. Krishna, Orlando Santana. Mount Sinai Medical Center, Miami, FL

Author Disclosures: None

C2-07

Severe Tricuspid Stenosis as the Initial Manifestation of Idiopathic Hypereosinophilic Syndrome

Farnoosh Larti¹, Soheil Peiman¹, Roya Sattarzadeh¹, Saeed Safari², Anahita Tavoosi¹. ¹Tehran University of Medical Science, Tehran, Islamic Republic of Iran; ²Iran University of Medical Science, Tehran, Islamic Republic of Iran

Author Disclosures: None

C2-08

Expanding the Use of Echocardiography With Rapid Fluid Infusion to Unmask Pericardial Constriction

Jeffrey Park, Edward Passen. Advocate Lutheran General Hospital, Park Ridge, IL

Author Disclosures: None

POSTER SESSION 1 (P1)

SUNDAY, JUNE 14, 2015

R POSTER SESSION 1 (P1)

Presented: 9:00 am – 4:00 pm

EXHIBIT & POSTER HALL

Meet the Investigators: 12:00 pm – 1:00 pm

Moderated Poster Session: 12:00 pm – 1:00 pm

TOPICS

Contrast Echocardiography and
New Technology.....P1-01 through P1-17

Echocardiography in Systemic Disease
(DM, HTN, Obesity, Cancer) / Pericardial /
Primary Myocardial.....P1-18 through P1-54

Ventricular Function /
Myocardial Mechanics.....P1-55 through P1-118

Ischemic Heart Disease..... P1-119 through P1-132

Doppler / Hemodynamics.....P1-133 through P1-149

Emerging Use of Echocardiography / Point of Care
Echocardiography..... P1-150 through P1-158

Value of Echocardiography
(Quality and Cost).....P1-159 through P1-169

Clinical Cases: Cardiovascular Ultrasound Imaging
in Diagnosis, Clinical Decision-Making, and Patient
Management.....P1-170 through P1-208

*Author Disclosure Key: 1) Speakers' Bureau;
2) Consultant/Advisor; 3) Stock Ownership (not including
stocks owned in a managed portfolio); 4) Research Grant
(primary investigator); 5) Employment Affiliation;
6) Royalty/Patents*

CONTRAST ECHOCARDIOGRAPHY AND NEW TECHNOLOGY

P1-01 THROUGH P1-17

P1-01 MODERATED POSTER

**Protective Effect of Ultrasound Mediated Targeted H2S
Delivery to the Myocardial Microvasculature in a Rat
Model of Myocardial Ischemia-reperfusion Injury**

Juefei Wu, Gangbin Chen, Jiancheng Xiu, Yuegang Wang, Yili
Liu, Jian Liu, Daogang Zha, Jianping Bin. Southern Medical
University, Nanfang Hospital, Guangzhou, China

Author Disclosures: None:

P1-02 MODERATED POSTER

**Detection of Myocardial Perfusion with Real Time High
Mechanical Index Imaging of Activated Intravenous
Liquid Phase Nanodroplets: Targeted Acoustic Activation**

Thomas R. Porter¹, Christopher Arena², Feng Xie¹, John Lof¹,
Paul Dayton². ¹University of Nebraska Medical Center, Omaha,
NE; ²University of North Carolina, Chapel Hill, NC

*Author Disclosures: T.R. Porter – 4 (Astellas Pharma
Inc., Bracco, General Electric Global Research, Lantheus
Medical Imaging, Philips Research North America)*

P1-03 WITHDRAWN

P1-04

**Ultrasound-Targeted Microbubble Destruction of
S100A6 Minicircle Attenuates Infarct Size and
Improves Left Ventricular Systolic Function and
Perfusion Post Acute Myocardial Infarction-Reperfusion**

Azadeh Mofid, Kolsoom Afrasiabi, Pratiek N. Matkar, Dmitriy
Rudenko, Michael A. Kuliszewski, Hao H. Chen, Wei J. Cao,
James N. Tsoporis, Thomas G. Parker, Howard Leong-Poi.
Keenan Research Centre, St. Michael's Hospital, University of
Toronto, Toronto, ON, Canada

Author Disclosures: None

P1-05

**Contrast Agent-Free Volumetric Echocardiographic
Particle Image Velocimetry (V-Echo-PIV)**

Ahmad Falahatpisheh¹, Glenn Reidar Lie², Gunnar Hansen²,
Arash Kheradvar¹. ¹University of California Irvine, Irvine, CA;
²GE Vingmed Ultrasound, Horten, Norway

*Author Disclosures: G.R. Lie – 5 (GE Vingmed
Ultrasound), G. Hansen – 5 (GE Vingmed Ultrasound), A.
Kheradvar – 4 (American Heart Association, Children's
Heart Foundation, Edwards Lifesciences Foundation)*

P1-06

Prognostic Value of Coronary Microvascular Function in Type 2 Diabetes Mellitus: A Quantitative Dobutamine Stress Myocardial Perfusion Echocardiography Study

Runqing Huang, Sahar S. Abdelmoneim, Lara F. Nhola, Amy L. Dichak, Sue J. Eifert Rain, Sharon L. Mulvagh. Mayo Clinic, Rochester, MN

Author Disclosures: None

P1-07

Comparison of Global Longitudinal Strain Derived from the Manual Method and a Vendor Independent Software in Dilated Cardiomyopathy and Hypertrophic Cardiomyopathy

Yukari Kobayashi, Miyuki Ariyama, Genevieve Giraldeau, Yuhei Kobayashi, Tatiana Kuznetsova, Ingela Schnittger, David Liang, Francois Haddad. Stanford University School of Medicine, Stanford, CA

Author Disclosures: None

P1-08

The Cardiac Time Intervals and the Association with 2D-Speckle Tracking, Tissue Doppler and Conventional Echocardiography - The Thousand&1 Study

Tor Biering-Sørensen¹, Jan Skov Jensen¹, Henrik Ullits Andersen², Peter Rossing², Magnus Thorsten Jensen¹.

¹Department of Cardiology, Gentofte, Copenhagen, Denmark;

²Steno Diabetes Center, Gentofte, Denmark

Author Disclosures: None

P1-09

Can Diastolic Intraventricular Pressure Gradient by Color Doppler M-Mode Echocardiography be Used to Assess Left Ventricular Untwisting?

Amir Hodzic¹, Damien Garcia², Leo Krsticevic¹, Boris Chayer², Guy Cloutier², Francois Tournoux¹. ¹Centre Hospitalier de l'Université de Montréal, Montreal, QC, Canada; ²Université de Montréal, Montreal, QC, Canada

Author Disclosures: None

P1-10

Cancer Therapeutics-Related Cardiac Dysfunction in a Large Clinical Cohort Undergoing Chemo-therapy with Trastuzumab

Weimin(Allen) He¹, Ian Paterson¹, Edith Pituskin², Eila Mirhadi¹, Jonathan Choy¹, Harald Becher¹. ¹Mazankowski Heart Institute in University of Alberta, Edmonton, AB, Canada; ²Cross Cancer Institute, Edmonton, AB, Canada

Author Disclosures: None

P1-11

Safety of Cardiac Ultrasound Contrast in Children and Adolescents for Resting and Stress Echocardiography

Shelby Kutty, Yunbin Xiao, Joan Olson, Mary Craft, Feng Xie, David Danford, Christopher Erickson, Thomas Porter. University of Nebraska/Children's Hospital and Medical Center, Omaha, NE

Author Disclosures: T. Porter – 1 (Astellas Pharmaceuticals, Bracco Pharmaceuticals), 4 (Astellas Pharmaceuticals, Lantheus)

P1-12

A Simple Method to Estimate Global Longitudinal Strain from Biplane Contrast Echocardiography: Comparison with Standard Global Longitudinal Strain Measurements

Faisal Alghamdi, Steven Tilley, Allen He, Imran Hassan, Edith Pituskin, Ian Paterson, Jonathan Choy, Harald Becher. University of Alberta/The Mazankowski Alberta Heart Institute, Edmonton, AB, Canada

Author Disclosures: None

P1-13

Contrast-Enhanced Ultrasound Measures of Skeletal Muscle Microvascular Flow Are Increased in Sickle Cell Disease

Vandana Sachdev¹, Hwaida Hannoush¹, Melinda D. Wu², Stanislav Sidenko¹, Cynthia L. Brenneman¹, Caterina Minniti³, Gregory J. Kato⁴, Jonathan R. Lindner². ¹National Institutes of Health, Bethesda, MD; ²Oregon Health & Science University, Portland, OR; ³Einstein College of Medicine, Bronx, NY; ⁴University of Pittsburgh, Pittsburgh, PA

Author Disclosures: None

P1-14

The Effect of Vascular Endothelial Growth Factor Inhibitor (VEGFI) Therapy on Myocardial Function and Perfusion: A Contrast Echocardiography Study

Sahar S. Abdelmoneim¹, Hector R. Villarraga¹, Lara F. Nhola¹, Manish Kohli¹, Joerg Herrmann¹, Axel Grothey¹, Debashish Nandy¹, Kimberly Ann Bordun², David Y. Cheung², Runqing Huang¹, Tammy Green¹, Elise A. Oehler¹, Marshall Pitz², Pawan K. Singal², Davinder S. Jassal², Sharon L. Mulvagh¹. ¹Mayo Clinic, Rochester, MN; ²Section of Cardiology, Department of Internal Medicine, University of Manitoba, Winnipeg, MB, Canada

Author Disclosures: S.L. Mulvagh – 4 (ASPER Foundation)

P1-15

The Analysis of Baseline Longitudinal Strain Does Not Predict Echocardiography Stress Test Outcome

Natalio A. Gastaldello, Jorge A. Lowenstein, Gustavo F. Zambrana, Diego Alasia, Marcela I. Galello, Miguel Amor, Maria G. Rousse, Norberto Casso, Diego Lowenstein, Victor D. Darú. Investigaciones Medicas, Buenos Aires, Argentina

Author Disclosures: None

P1-16**Ultrasound-targeted Microbubble Destruction (UTMD) Assisted Delivery of shRNA Against PHD2 Into H9C2 Cells**

Li Zhang. Department of Ultrasound, Union Hospital, Tongji Medical College, HUST, Wuhan, China

Author Disclosures: None

P1-17**The Assessment of Atrial Function in Single Ventricle Circulation After Fontan Operation Using Two-Dimensional Speckle Tracking Echocardiography**

Kiyohiro Takigiku, Hidenori Yamamoto, Satoshi Yasukochi, Seiichi Tazawa, Atsuya Shimabukuro, Shoko Yamazaki, Yusuke Nakano, Manabu Nitta, Kouta Momoki. Nagano Children's Hospital, Azumino City, Japan

Author Disclosures: None

ECHOCARDIOGRAPHY IN SYSTEMIC DISEASE (DM, HTN, OBESITY, CANCER) / PERICARDIAL / PRIMARY MYOCARDIAL

P1-18 THROUGH P1-54**P1-18 MODERATED POSTER****Relationship between Coronary Flow Reserve and Diastolic Dysfunction in Patients with Normal Ejection Fraction and Epicardial Perfusion**

Joshua C. Greenberg, Matthew C. Konerman, Venkatesh L. Murthy, Theodore J. Kolias, Scott L. Hummel. University of Michigan Hospital, Ann Arbor, MI

Author Disclosures: V.L. Murthy – 2 (INVIA Medical Imaging Solutions), 3 (General Electric), 4 (INVIA Medical Imaging Solutions, Intersocietal Accreditation Commission); S.L. Hummel – 4 (PurFoods, LLC)

P1-19 MODERATED POSTER**Prediction of Future Overt Pulmonary Hypertension by Six-minute Walk Stress Echocardiography in Connective Tissue Disease**

Kenya Kusunose, Hirotsugu Yamada, Junko Hotchi, Mika Bando, Susumu Nishio, Yukina Hirata, Jun Kishi, Masataka Sata. Tokushima University Hospital, Tokushima, Japan

Author Disclosures: None

P1-20 MODERATED POSTER**Association of Pathophysiology with Etiology of Non-ischemic, Preclinical Heart Failure**

Hong Yang, Kazuaki Negishi, Mark Nolan, Ying Wang, Makoto Saito, Thomas Marwick. Menzies Institute for Medical

Research, Hobart, Australia

Author Disclosures: H. Yang – 4 (National Heart Foundation of Australia), M. Nolan – 4 (National Heart Foundation of Australia)

P1-21**Prognostic Value of Diastolic Function by Doppler Echocardiography in Patients with Peripartum Cardiomyopathy**

Antonia Delgado-Montero¹, Dennis McNamara¹, Julie B. Damp², Mark Drazner³, Eileen Hsieh⁴, Paul J. Mather⁵, Navin Rajagopalan⁶, John Gorcsan, III¹. ¹University of Pittsburgh, Pittsburgh, PA; ²Vanderbilt University, Nashville, TN; ³UT Southwestern, Dallas, TX; ⁴Cleveland Clinic, Cleveland, OH; ⁵Jefferson University, Philadelphia, PA; ⁶University of Kentucky, Lexington, KY

Author Disclosures: J. Gorcsan – 4 (Biotronik, GE, Medtronic, St Jude, Toshiba)

P1-22**Quantitative Echocardiographic Parameters in Screening for Pulmonary Hypertension in Preterm Infants with Bronchopulmonary Dysplasia**

Constance G. Weismann, Jeremy D. Asnes, Alia Bazzi-Assad, Richard A. Ehrenkranz, Matthew J. Bizzarro. Yale School of Medicine, New Haven, CT

Author Disclosures: None

P1-23**Is Diastolic Function in Sickle Cell Disease Affected by Left Ventricular - Aortic Coupling?**

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P1-24**Structural Heart Disease and Outcomes in Incident Hemodialysis Patients: Correlation with Proposed Echocardiographic Criteria by the Acute Dialysis Quality Initiative Workgroup**

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P1-25**Right Ventricular Involvement in Takotsubo Cardiomyopathy**

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P1-26**The Prevalence of Transient Apical Hypertrophy During Recovery Phase of Takotsubo Cardiomyopathy**

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P1-27**The Adverse Effect of Obesity on Ventriculo-Arterial Coupling in Children**

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P1-28**Change in Intraventricular Pressure Difference During Early Diastole is a Useful Marker of Early Cardiac Toxicity Due to Cancer Therapy in Patients With Childhood Malignancies**

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P1-29**A Comprehensive Echocardiogram Study in Elher Danlos Syndrome**

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Author Disclosures: None

P1-30**Early Detection of Increased Carotid Artery Stiffness in Patients with Metabolic Syndrome Using Two-Dimensional Speckle Tracking Imaging**

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Author Disclosures: None

P1-31**Global Longitudinal Strain Can Risk Stratify Patients with Suspected Cardiac Sarcoidosis**

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P1-32**Different Characteristics of Left Ventricular Mechanics between Young and Late Onset Apical Hypertrophic Cardiomyopathy**

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P1-33**High Risk for Impending Death in Patients with Pericardial Effusion and Pulmonary Hypertension**

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Author Disclosures: None

P1-34**The Incremental Role of ePLAR (echocardiographic Pulmonary to Left Atrial Ratio) in the Diagnosis of Sub-Massive Acute Pulmonary Embolism**

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P1-35**Utility and Reproducibility of Speckle Tracking Strain Imaging in the Assessment of Right and Left Ventricular Function in Children with Sickle Cell Disease**

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P1-36**Early Diastolic Mitral Annular Velocities Improve Following Medical Therapy of Transient Constrictive Pericarditis: Annulus Reversus is Reversed**

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P1-37

Effect of Pericardial Calcification on Biventricular Mechanics in Constrictive Pericarditis

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P1-38

Determinants of Hypertensive Response During Supine Bicycle Exercise: Gender Difference

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P1-39

Pulmonary Hypertension in the Setting of Sjögren's Syndrome

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P1-40

The Value of Calibrated Integrated Backscatter in Predicting Left Ventricular Reverse Remodeling in Non-Ischemic Cardiomyopathy

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Effect of Obesity With or Without Optimal Blood Pressure on Global Longitudinal Strain

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P1-42

Left Ventricular Global Performance Plot for Prediction of Subclinical Cardiotoxicity in Childhood Cancer Survivors after Anthracycline Therapy

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P1-43

What is the Effect of Trastuzumab in a Non-Anthracycline-Based Chemotherapy Regimen on Cardiac Function Assessed by Strain Imaging?

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P1-44

Left Atrial Function in Adult Overweight Patients

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Efficacy of Speckle-Tracking Analysis in Evaluating Underlying Myocardial Function of Patients with Left Ventricular Assist Device

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The Intraventricular Flow Assessment in Patients with Left Ventricular Assist Device: Early Observations

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P1-47

Adverse Cardiac Events and Grade 1 Diastolic Dysfunction

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The Echocardiographic Characteristics of Cardiac Involvement of Mitochondrial Disease, in Comparison with the Cardiac Amyloidosis

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P1-49

Echocardiographic Evaluation of Right Ventricular Function in Patients with McConnell's Sign: The Added Benefits of Right Ventricular Free Wall Strain

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Echocardiographic Predictors of Cardiac Amyloidosis Using Cardiac MRI as the Reference Standard

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The Presbycardia Phenotype: Cardiac Remodeling and Valvular Degeneration in the Nonagenarians

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P1-52

Increased Prevalence of Left Ventricular Hypertrophy in Persons Living with HIV

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P1-53

Determinants of Functional Tricuspid Regurgitation in Patients with Lone Atrial Fibrillation

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P1-54

Right Heart Involvement in Sarcoidosis Patients

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P1-55 MODERATED POSTER

Using Anatomical Intelligence in 2-Dimensional Speckle Tracking Echocardiography to Evaluate Left Ventricular Deformation

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P1-56 MODERATED POSTER

Association of Aortic Root Diameter with Myocardial Remodeling and Reduced Function in Middle-Aged Black and White Adults: The CARDIA Study

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P1-57 MODERATED POSTER

Left Ventricular Global Longitudinal Strain Predicts the Reversibility of Cardiotoxicity in Patients with Breast Cancer Treated with Anthracyclines and Trastuzumab

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P1-58 MODERATED POSTER

Right Ventricular Myocardial Reserve in Children after Arterial Switch Operation

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Systolic and Diastolic Reserve in Children after Arterial Switch Operation

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P1-60**A New Dynamic Cardiac Phantom Model for Research and Quality Control in Echocardiography**

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P1-61**The Added Value of Right Ventricular Free Wall Strain in Patients with Heart Failure with Preserved Ejection Fraction**

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P1-62**Afterload Correction for Myocardial Strain using Strain Pressure Product: Associations with other Risk Markers of Stage B Heart Failure and Outcomes**

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P1-63**Myocardial Strain of Cardiac Chambers After Stem Cell Transplantation in Patients With Cardiac Amyloidosis**

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Author Disclosures: None

P1-64**Prognostic Value of Global Left Ventricular Strain in Heart Failure Patients with Intermediate Electrocardiographic Criteria for Cardiac Resynchronization Therapy**

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P1-65**Inheritance of Left Ventricular Deformation: The BUDAPEST Twins Study**

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P1-66**Right Ventricular Strain Predicts Pulmonary Hemodynamics in Children with Pulmonary Hypertension**

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P1-67**Influence of Afterload on Global and Basal Longitudinal Strain: Comparison of Blood Pressure and Wall Stress**

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P1-68**Relationship Between Arterial Stiffness and Left Ventricular Remodelling and Function in Women**

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P1-69**Left Ventricular Twist and Untwist Mechanism in Uncomplicated Pregnancy Woman: A 2-dimensional Ultrasound Speckle Tracking Echocardiography Study**

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P1-70**Cardiac and Pulmonary Ultrasound Correlates of Exertional Dyspnea in Ambulatory Heart Failure Patients**

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P1-71

Global Longitudinal Strain Predicts Exercise Tolerance in Otherwise Healthy Men

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Left Atrial-ventricular Matching with Age

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Biventricular Remodeling in Scleroderma Patients Undergoing Lung Transplantation is Predictive of Primary Graft Failure Requiring Extracorporeal Circulatory Support

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Temporal Variability of Global Longitudinal Strain with Sequential Echocardiographic Imaging Among Patients Undergoing Chemotherapy

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P1-75

Echocardiographic Evaluation in Tako-Tsubo Syndrome: Long-Term Follow-Up From a Multicenter Study

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P1-76

Functional and Fluid Mechanics as Early Markers of Myocardial Function Decrement in Patients with Hematological Malignancies Submitted to Chemotherapy, Pre and Post Stem Cell Transplant

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P1-77

The Assessment of Ventricular Mechanics at Rest and During Peak Exercise in a Healthy Pediatric Population

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Excessive Television Viewing is Associated with Adverse Cardiac Mechanics: Findings from the HyperGEN Study

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P1-79

Effects of Low-Intensity Exercise on Right Ventricular Mechanics in Pulmonary Arterial Hypertension

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P1-80

Right Ventricular Assessment in Submassive Pulmonary Embolism: Effective Treatment

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P1-81

Assessment of Longitudinal Left Ventricular Systolic Function: Tissue Motion Annular Displacement vs. Global Longitudinal Strain

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Linear Relationship between Left Ventricular Wall Stress and Myocardial Strain and Its Response to Changes in Blood Pressure in Normal Subjects

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Left Ventricular Remodeling in Young Black Athletes

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How Robust is the Apical 4-chamber for RV Assessment? A CMR Based Study of Echocardiographic Parameters

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P1-85

Assessment of Variability in Longitudinal Strain with Speckle Tracking Echocardiography

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Time Course of Remodeling: Impact of Exercise Training and Bed Rest on Left Ventricular Morphology and Mechanics

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Is Right Ventricular Outflow Tract Pacing Superior to Right Ventricular Apex Pacing? Long-term Echocardiographic Follow-up Results

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The Use of Two-Dimensional Speckle-Tracking Strain in Monitoring Cardiotoxicity in Older Patients with Acute Myeloid Leukemia

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Circumferential Strain can be Used to Detect LPS-induced Myocardial Dysfunction and Predict Mortality of Severe Sepsis in Mice

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Relationship Between Aortic Root to Ascending Aorta Configuration and Left Ventricular Diastolic Function in Patients Without Aortic Valve Disease

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Assessment of Right Ventricular Systolic Performance Using Novel Automated Speckle Tracking of Tricuspid Annular Displacement in Comparison With Other Echocardiographic Methods

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The Early Diastolic Inertial and Convective Intraventricular Pressure Difference in Children, Adolescents and Young Adults

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Assessment of Left Ventricular Function in Patients With Chronic Aortic Regurgitation by Three Dimensional Strain Imaging: Comparison With Cardiac Magnetic Resonance Imaging

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Defining LV Mechanics With 4D Echocardiography

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Association of Left and Right Ventricular Function in Middle Age: The Coronary Artery Risk Development in Young Adults (CARDIA) Study

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P1-96

The Utility of Echocardiography in the Assessment of Right Ventricle Global Systolic Function in Chronic Chagas Cardiomyopathy

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P1-97

Association of Smoking and Right Ventricular Function in Middle Age: The Coronary Artery Risk Development in Young Adults (CARDIA) Study

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P1-98

Is There a Change in Myocardial Mechanical Function in Patients on Vascular Endothelial Growth Factor Axis Inhibitor Therapy for Genitourinary and Gastrointestinal Cancer?

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P1-99

Attenuation of Ventricular-Arterial Matching Associated With Elevated N-Terminal pro B-Type Natriuretic Peptide and Impaired Cardiac Performance in Heart Failure

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P1-100**Evolution of Right Ventricular Speckle Tracking Derived 2-D Strain Parameters in Extremely Low Gestational Age Newborns During the Neonatal Period**

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P1-101**Left Ventricular Mechanics: Novel Tools to Evaluate Function and Dyssynchrony in Controls and Cardiac Resynchronization Therapy Candidates**

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P1-102**Comprehensive Myocardial Deformation Assessment in Patients with Kawasaki Disease**

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P1-103**Underlying Cardiac Dysfunction is a Single Biggest Determinant in Improvement of Ventricular Mechanics Following Hemodialysis**

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P1-104**Diastolic Function Predict Cardiorespiratory Fitness in Patients With Preserved Ejection Fraction**

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P1-105**The Impact of Spinal Cord Injury on Exercise Induced Cardiac Remodeling in Elite Para-Cyclists**

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P1-106**Circadian Clock and Myocardial Deformation Imaging - A Speckle Tracking Study**

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P1-107**The Usefulness of Right Ventricular Systolic Function Indexes Measured by Transthoracic Echocardiography in Pulmonary Diseases; Relationships With Severity of Interstitial Pneumonia**

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Author Disclosures: None

P1-108**Alterations in Left Ventricular Geometry in Chronic Pulmonary Hypertension is Unable to Disrupt the Relationship Existing Between Mitral Annular Relaxation and Ventricular Filling in Early Diastole**

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P1-109**Left Ventricular Morphology, Systolic Mechanics and Diastolic Function in Patients with ANT1 Cardiomyopathy**

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P1-110**Distinguishing Focal Fibrotic Lesions and Non-fibrotic Lesions of Left Ventricular Endomyocardium Confirmed on Cardiac Magnetic Resonance in Hypertrophic Cardiomyopathy Using a Novel Multi-layer Technique on 2D Speckle Tracking TTE**

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P1-111**Layer-specific Longitudinal and Circumferential Myocardial Strains and Their Determinants in Healthy Subjects**

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P1-112

M-mode Pattern of Left Atrial Slope as New Parameters of Left Ventricular Diastolic Function

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P1-113

Right Ventricular Function in Patients With Tricuspid Insufficiency. Combined Assessment by Two-Dimensional Echocardiography, Speckle Tracking and Three-Dimensional Echocardiography

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P1-114

Left Atrio-Ventricular and Ventricular-Arterial Matching in Patients with Heart Failure

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Author Disclosures: None

P1-115

Systolic Dyssynchrony in Right Ventricular Free Wall Assessed by Two-dimensional Speckle-tracking Echocardiography is a Predictor of Pulmonary Hypertension

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P1-116

Accuracy of Vector Velocity Imaging for Assessment of Cardiac Mechanics: Validation Against Sonomicrometry

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P1-117

Left Ventricular Remodelling of Athlete's Heart, Irrespective of Load Training Quality

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P1-118

Acceleration Rate of E Wave: A Novel Transmitral Doppler Index for Assessing Diastolic Function

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ISCHEMIC HEART DISEASE

P1-119 THROUGH P1-132

P1-119 MODERATED POSTER

Impaired Two-Dimensional Global Longitudinal Strain of Left Ventricle Predicts Adverse Long-Term Clinical Outcomes in Patients with Acute Myocardial Infarction

Jae-Hyeong Park, Yunseon Park, Yeon Ju Kim, In Suk Lee, Jin Kyung Oh, Mi Joo Kim, Jun Hyung Kim, Jae-Hwan Lee, Si Wan Choi, Jin-Ok Jeong, In-Wan Seong. Chungnam National University Hospital, Daejeon, Republic of Korea

Author Disclosures: None

P1-120 MODERATED POSTER

Persistent Ischemic Mitral Regurgitation after Primary Percutaneous Coronary Intervention for Acute Myocardial Infarction: Predictive Factors and Prognostic Implication

Shun Nishino, Nozomi Watanabe, Toshiyuki Kimura, Tatsuya Nakama, Makoto Furugen, Hiroshi Koiwaya, Yohei Yanagita, Daimon Kuwahara, Tatsuro Takei, Akihiko Matsuyama, Keiichi Ashikaga, Nehiro Kuriyama, Yoshisato Shibata. Miyazaki Medical Association Hospital, Miyazaki, Japan

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P1-121

Diastolic Recovery is Associated With Mortality and Adverse Event in the Patients With Acute Myocardial Infarction

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Author Disclosures: None

P1-122 WITHDRAWN**P1-123****Risk Stratification and Prognosis of Low-intermediate and High (10-year) Risk Patients with Diabetes Based on ACC/AHA Cardiovascular Risk Calculator and Stress Echocardiography**

Siu-Sun Yao¹, Azhar Supariwala², Amanda Yao¹, Sai Sreenija Dukkupati², Farooq Chaudhry². ¹Valley Health Systems, New York, NY; ²Mount Sinai Hospital, New York, NY

Author Disclosures: None

P1-124**Quantification of Regional Left Ventricular Function in Patients with Coronary Artery Disease by Layer-Specific Strain**

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P1-125**Determinants of False Positive ST-segment Depression in Supine Bicycle Exercise Echocardiographic Test**

Hyemoon Chung, Young-Hak Jung, Eun Jeong Lee, Jong-Youn Kim, Young Won Yoon, Byoung Kwon Lee, Bum Kee Hong, Se-Joong Rim, Hyuck Moon Kwon, Eui-Young Choi. Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

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P1-126**Safety of Dobutamine and Exercise Stress Echocardiography in Patients with Abnormalities of Serum Potassium**

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P1-127**Female False Positive ECG Stress Testing - Fact or Fiction?**

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P1-128**Assessment of Left Ventricular Systolic Function by 3-Dimensional Speckle Tracking Imaging in Coronary Artery Disease Patients With Normal Wall Motion**

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P1-129**Preservation of Post-Infarction Myocardial Function via Hydrogel-Assisted Delivery of Recombinant Tissue Inhibitor of Matrix Metalloproteinase-3 (rTIMP-3)**

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P1-130**Assessment of Longitudinal Strain Properties in Patients with Right Ventricular Myocardial Infarction by 2-Dimensional Speckle Tracking Imaging**

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P1-131**Does Ischemic Burden on Stress Testing Influence Patient Survival in Subjects with Known Severe Multi-Vessel Coronary Artery Disease?**

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Author Disclosures: None

P1-132**Raised Troponin in the ICU: Can Real-Time Myocardial Contrast Echocardiography Improve Recognition of Acute Ischemia in the Critically Ill?**

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DOPPLER / HEMODYNAMICS**P1-133 THROUGH P1-149****P1-133 MODERATED POSTER****Novel Parameters for Grading Aortic Insufficiency Severity in Patients with Left Ventricular Assist Devices**

Jonathan Grinstein, Eric Kruse, Keith A. Collins, Gabriel Sayer, Savitri Fedson, Gene H. Kim, Valluvan Jeevanandam, Nir Uriel, Roberto M. Lang. University of Chicago, Chicago, IL
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P1-134 MODERATED POSTER

ePLAR - The echocardiographic Pulmonary to Left Atrial Ratio - A Novel Non-invasive Parameter to Differentiate Pre-capillary and Post-capillary Pulmonary Hypertension

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P1-135 MODERATED POSTER

Predictors and Prognostic Impact of Secondary Pulmonary Hypertension in Myocardial Infarction with Preserved Ejection Fraction

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P1-136

Normalization to Organ Size and Heart Rate - The Right Measure to Increase Clinical Utility of Aortic and Pulmonary Velocity Time Integral in Children?

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P1-137

Predictors of Exercise-Induced Pulmonary Hypertension in Patients With Preserved Left Ventricular Ejection Fraction

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P1-138

Myocardial Function in the First Week of Life: Tissue Doppler Imaging Reference Values in 400 Newborns Age 0 to 7 Days

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P1-139

Tricuspid Annular Plane Systolic Excursion (TAPSE) in Neonates: Normal Values and the Effects of Prenatal and Maternal Factors in 210 Healthy Newborns Age 0 to 7 Days

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P1-140

Functional and Anatomic Responses of the Left Atrium to Change in Estimated Left Ventricular Filling Pressure

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P1-141

Blood-Flow Propagation in LA by Doppler Echocardiography Depend on Decreased of Left Ventricular Diastolic Function and Elevation of LA Pressure

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P1-142

Prognostic Value of Time-lag between Left and Right Ventricular Filling in Patients with Heart Failure

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P1-143

ePLAR: the Echocardiographic Pulmonary to Left Atrial Ratio - Conceptualizing a New Parameter for the Assessment of Pulmonary Hypertension. Foundation Data from 16,356 Normal Echocardiograms.

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P1-144

Global Longitudinal Strain From Resting Echocardiogram Better Predicts Long-Term Adverse Cardiac Outcomes in Patients with Normal Ejection Fraction

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P1-145

Gender Difference in the Impact of Central Aortic Pulse Pressure on Left Ventricular Filling Pressure in the Elderly: Invasive Hemodynamic Study

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P1-146

Right Ventricular Outflow to Aortic Valve Velocity Ratio: A Relative Dimensionless Index for Severe Aortic Stenosis

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P1-147

The Relationship Between Ventricular Filling and Venous Doppler Flow Patterns in Twin-Twin Transfusion Syndrome

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P1-148

Pulmonary Vascular Resistance by Echocardiography is Predictive of Symptoms in Patients with Pulmonary Arterial Hypertension

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P1-149

Echocardiographic Assessment of Acute Hemodynamic Effect after Pulmonary Endarterectomy for Chronic Thromboembolic Pulmonary Hypertension

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EMERGING USE OF ECHOCARDIOGRAPHY / POINT OF CARE ECHOCARDIOGRAPHY

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P1-150 MODERATED POSTER

Utility of 3D Echocardiography to Determine Optimal Speed Settings in Left Ventricular Assist Devices

Karima Addetia, Francesco Maffessanti, Gabriel Sayer, Gene Kim, Savitri Fedson, Keith Collins, Eric Kruse, Daniel Rodgers, Victor Mor-Avi, Valluvan Jeevanandam, Nir Uriel, Roberto M. Lang. University of Chicago, Chicago, IL

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P1-151 MODERATED POSTER

Left Atrial Function by Speckle-Tracking Echocardiography in Fabry Disease

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P1-152

Screening for Rheumatic Heart Disease: Accuracy of Non-Physicians Using Handheld Echocardiography

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P1-153

Speckled Tracking Echocardiogram for Non-invasive Prediction of Heart Transplant Rejection

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P1-154

Correlation of Global and Territorial Longitudinal Strain With Significant Coronary Artery Lesions in Non-ST Elevation Acute Coronary Syndrome

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P1-155

Comprehensive Assessment of Cardiac Function and Ultrasound Lung Comets Using a Pocket-Sized Imaging Device for Home Care Patients

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P1-156

Valve and Annular Calcification Predicts All-Cause Mortality

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P1-157

Point of Care Echocardiography in Rural Vietnam Clinics

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P1-158

Ventricular Doppler Inflow Duration Corrected by Cycle Length in Fetuses with Normal and Abnormal Diastolic Function

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VALUE OF ECHOCARDIOGRAPHY (QUALITY AND COST)

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P1-159 MODERATED POSTER

The Value of Quality Improvement Process in the Detection and Correction of Common Errors in Echocardiographic Hemodynamic Parameters in a Busy Echocardiography Laboratory

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P1-160 MODERATED POSTER

Novel Integrated Echocardiographic and Clinical Data Model Predicts 3-Year Mortality in Coronary Care Unit Patients

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P1-161 MODERATED POSTER

Impact of Malpractice Concerns on Decisions to Order Echocardiography and Stress Tests

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P1-162

Effect of Prenatal Diagnosis on Hospital Costs in Patients with Complete Transposition of Great Arteries

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P1-163

Growth and Geographical Variation in the Use of Echocardiography in Australia

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Author Disclosures: None

P1-164**Variability Across Pediatric Cardiologists in Utilization of Echocardiography in the Outpatient Setting**

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P1-165**Comparison of Correlation Methods in Right Heart Pressure Estimation Between Echocardiography and Catheterization**

Amanda Tinnemore, Alicia Armour, Stephanie Minter, Karen Strub, Pamela S. Douglas, Eric J. Velazquez, Zainab Samad.
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P1-166**Evaluation of Appropriate Use of Doppler Echocardiography and its Relation to Patient Management in a Brazilian Tertiary General Hospital**

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P1-167**Precision and Validity in the Strain Learning Curve: A Hill, Not a Mountain**

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P1-168**Critical Review of Current Approaches for Echocardiographic Reproducibility and Reliability Assessment in Clinical Research**

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P1-169**Practice Patterns in Post-operative Echocardiographic Surveillance in Children with Congenital Heart Disease**

Alisa A. Arunamata, Doff B. McElhinney, Andrew Y. Shin, David M. Axelrod, Frank L. Hanley, V. Mohan Reddy, Inger L. Olson, Alaina K. Kipps, Elif Seda Selamet Tierney. Stanford Hospital and Clinics, Palo Alto, CA

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CLINICAL CASES: CARDIOVASCULAR ULTRASOUND IMAGING IN DIAGNOSIS, CLINICAL DECISION-MAKING, AND PATIENT MANAGEMENT

P1-170 THROUGH P1-208**P1-170****Did We Even Imagine that this Could Happen? Role of Echocardiography in Percutaneous Mitral Valve Replacement for Calcific Mitral Valve Stenosis**

Renuka Jain¹, Daniel O'Hair¹, Tanvir Bajwa¹, Jonathan Kay², Khawaja A. Ammar¹, Bijoy Khandheria¹. ¹Aurora Cardiovascular Services, Milwaukee, WI; ²Aurora St. Luke's Medical Center, Milwaukee, WI

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P1-171**"Stressed Out" by a Stress Test**

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Author Disclosures: None

P1-172**Spontaneous Embolization of a Venous Stent to the Right Ventricle With Severe Tricuspid Regurgitation: The Role of 2D-3D and Doppler Echocardiography**

Beixin J. He, David J. Hur, Doug Heller, Alejandro Hernandez, Susan Garwood, Marian Vulpe, Robert McNamara, Lissa Sugeng. Yale University, New Haven, CT

Author Disclosures: None

P1-173**Asymmetric Parachute-Like Tricuspid Valve with Severe Tricuspid Regurgitation in an Adult Patient**

Tolga S. Guvenc, Hatice B. Erer, Gulay Gok, Ahmet Ekmekci, Dilaver Oz, Aycan Zencirci, Mehmet Eren. Dr. Siyami Ersek Chest and Cardiovascular Surgery Training and Research Hospital, Istanbul, Turkey

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P1-174**Focal Aortic Root Dissection: Accurate Diagnosis by Real Time 3D-Transesophageal Echocardiography**

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P1-175**Closure of Aortic Paravalvular Leak Resulting in Resolution of Transvalvular Leak: Is it a Venturi Effect?**

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P1-176**Don't Let the Most Obvious Findings Distract You!**

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P1-177**A Duck in the Heart?**

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P1-178**Spontaneous Rupture of Bicuspid Aortic Valve**

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P1-179**Case of Liposarcoma Metastatic to Right Atrium**

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P1-180**A Case of an Uncommon Site of Metastasis**

Abdallah El Sabbagh, Mohammed Al-Hijji, Jae Yoon Park,

Mandeep Singh, Nandan Anavekar. Mayo Clinic, Rochester, MN

Author Disclosures: None

P1-181**Isolated Aneurysms of the Ventricular Membranous Septum**

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Author Disclosures: None

P1-182**Transthoracic Echocardiography of an Aortic Valve Occlusion Device in a Patient with a Left Ventricular Assist Device: A Case Study**

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Author Disclosures: None

P1-183**An Unusual Source of Systemic Thromboembolism**

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P1-184**Immediate and Progressive Bradycardia during Low Dose Infusion of Dobutamine**

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Author Disclosures: None

P1-185**Cause or Trigger: Dobutamine Induced Ventricular Tachycardia and Transient Regional Wall Motion Abnormality**

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P1-186**Echocardiographic Identification of a Large Cardiac Fistula with an Unusual Route**

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P1-187**Lactobacillus Endocarditis as a Consequence of Probiotic Use in an Immunosuppressed Patient**

Timothy JK Vossler, Christiane M. Abouzeid, Jina Sohn, Tracy D. Lawrence. Keck School of Medicine of USC, Los Angeles, CA

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P1-188**Right Ventricular Myocardial Performance Index in a Cancer Patient Receiving Trastuzumab Based Chemotherapy**

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P1-189**Systemic Embolization from an Unusual Intracardiac Mass in the Left Ventricular Outflow Tract**

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P1-190**A Rare Primary Cardiac Tumor with Fatal Consequences**

Timothy R. Larsen, John C. Lystash. Virginia Tech-Carilion School of Medicine, Roanoke, VA

Author Disclosures: None

P1-191**Native Tricuspid Valve Thrombus with Saddle Pulmonary Emboli**

Roderick C. Deano, Patrick Looser, Frank S. Lin, Alan C. Legasto, James M. Horowitz, Maria Karas, Arash Salemi, Richard B. Devereux. New York Presbyterian Hospital, Weill-Cornell Medical College, New York, NY

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P1-192**Echocardiographic Images of a Quadricuspid Valve**

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Author Disclosures: None

P1-193**An Unusual Diagnosis of Left Atrial Thrombus. Is Transesophageal Echocardiography Enough?**

Chafik Assal, Stacy Groom. West Virginia University, Charleston, WV

Author Disclosures: None

P1-194**Caseous Calcification of Mitral Annulus**

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P1-195**Radiation Associated Valvular Heart Disease**

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P1-196**Rare Association of Endomyocardial Fibrosis and Chagas Disease Evaluated by Advanced Techniques**

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P1-197**Post Myocardial Infarction Ventricular Septal Defect Closure Using Amplatzer VSD Occluder Device**

Lucy Safi, Priscilla Peters. Cooper University Hospital, Philadelphia, PA

Author Disclosures: None

P1-198**Pedicle Intraventricular Thrombus: Unusual Presentation in 7 Cases**

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Author Disclosures: None

P1-199**A Large Mobile Left Ventricular Thrombus in a Young Man With Normal Left Ventricular Function and Metastatic Germ Cell Testicular Cancer Presented as an Embolic Stroke**

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P1-200**Peripartum Cardiomyopathy Complicated by Multiple Left Ventricular Thrombi**

Ian H. Crandall¹, Rebecca Beaupre², David J. Hur¹, Robert L. McNamara¹, Njeri Thande¹, Daniel T. Price¹, Lissa Sugeng¹, Ben A. Lin¹. ¹Yale University, New Haven, CT; ²Lawrence and Memorial Hospital, New London, CT

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P1-201**The Value of Echocardiography in Diagnosing Pulmonary Embolism: A Case Report**

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Author Disclosures: None

P1-202**Acute Rejection in Heart Transplant**

Madeline Jankowski, Kameswari Maganti. Northwestern Memorial Hospital, Chicago, IL

Author Disclosures: None

P1-203**Combined Use of Cardiovascular Imaging and Angiography in Spontaneous Coronary Artery Dissection Patient**

Chayakrit Krittanawong¹, Marysia S. Tweet¹, Elizabeth A. Coon², Rajiv Gulati¹, Sharonne N. Hayes¹. ¹Division of Cardiovascular Disease, Mayo Clinic, Rochester, MN; ²Division of Neurology, Mayo Clinic, Rochester, MN

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P1-204**A Rare Case of Giant Left Coronary Artery Aneurysm**

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P1-205**A Case of Curable Heart Failure-Idiopathic Constrictive Pericarditis**

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Author Disclosures: None

P1-206**Revealing the Magnitude of an Extrinsic Mass Compressing the Left Atrium**

Saifullah Nasir, Nishant Patel, Leslie Brookfield, Luay Rifai, Edward Passen. Advocate Lutheran General Hospital, Park Ridge, IL

Author Disclosures: None

P1-207**Intracardiac Echocardiography: A Valuable Tool in Assessing the Left Atrial Appendage**

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P1-208**Role of Transesophageal Echocardiography (TEE) in the Diagnosis of Discrete Subaortic Membrane in an Symptomatic Octogenarian with Subaortic Stenosis: A Hypertrophic Cardiomyopathy Imitator**

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POSTER SESSION 2 (P2)

MONDAY, JUNE 15, 2015

R POSTER SESSION 2 (P2)

Presented: 9:00 am – 4:00 pm

EXHIBIT & POSTER HALL

Meet the Investigators: 12:00 pm – 1:00 pm

Moderated Poster Session: 12:00 pm – 1:00 pm

TOPICS

Vascular Disease.....P2-01 through P2-12

Outcomes /

Comparative Effectiveness.....P2-13 through P2-26

Valvular Heart Disease.....P2-27 through P2-59

Pediatric and Adult

Congenital Heart Disease.....P2-60 through P2-146

Intraprocedural Echocardiography

(Operating Room and Interventional Lab) /

TEE.....P2-147 through P2-160

3D Echocardiography.....P2-161 through P2-193

Echocardiography in SOE / Arrhythmias /

Atrial Function.....P2-194 through P2-212

Author Disclosure Key: 1) Speakers' Bureau; 2) Consultant/Advisor; 3) Stock Ownership (not including stocks owned in a managed portfolio); 4) Research Grant (primary investigator); 5) Employment Affiliation; 6) Royalty/Patents

VASCULAR DISEASE

P2-01 THROUGH P2-12

P2-01 MODERATED POSTER

Incremental Prognostic Value of Carotid Artery End-diastolic Velocity for Future Cardiovascular Events in Patients with Risk Factor

Hyemoon Chung, Young-Hak Jung, Eun Jeong Lee, Jong-Youn Kim, Young Won Yoon, Byoung Kwon Lee, Bum Kee Hong, Se-Joong Rim, Hyuck Moon Kwon, Eui-Young Choi. Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

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P2-02

Comparison of a Semi-automated System and Manual Evaluation of Brachial Artery Flow-mediated Dilatation

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P2-03

Speckle Tracking Carotid Artery Strain in Patients Undergoing Coronary Angiography

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P2-04

Echocardiography of Pediatric Patients with Osteogenesis Imperfecta Shows Early Changes of Aortic Dilatation

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P2-05

Impact of Arterial Stiffness on Long-axis Performance of Left Ventricle

Hack-Lyoung Kim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Boramae Medical Center, Seoul, Republic of Korea

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P2-06

Impact of Adjustment of the Doppler Aortic Valve Area for Pressure Recovery on Classification of Aortic Stenosis Severity in Asian Population: Asian Valve Registry Data

Xin Jin¹, Byung Joo Sun¹, Jeong Yoon Jang¹, Dae-Hee Kim¹, Jong-Min Song¹, Duk-Hyun Kang¹, Yong-Jin Kim², Seung-Woo Park³, Jong-Won Ha⁴, Hiroyuki Okura⁵, Tomoko Tani⁶, Hidekazu Tanaka⁷, Yukata Ostuji⁸, Cheuk-Man Yu⁹, Kumiko Hirata¹⁰, Chisato Izumi¹¹, Jae-Kwan Song¹. ¹Asan Medical Center Heart Institute, Seoul, Republic of Korea; ²Seoul National University Hospital, Seoul, Republic of Korea; ³Samsung Medical Center, Seoul, Republic of Korea; ⁴Severance Cardiovascular Hospital, Seoul, Republic of Korea; ⁵Kawasaki Medical University, Kurashiki, Japan; ⁶Kobe City Medical Center General Hospital,

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P2-07

Association between Peripheral Endothelial Function and Left Ventricular Diastolic Function in Patients with Ischemic Heart Disease

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P2-08

Abnormal Coronary Tortuosity is Associated With the Degree of Longitudinal Myocardial Shortening but Not Left Ventricular Mass

Andrew Oehler, Jonathan Lindner. Oregon Health & Science University, Portland, OR

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P2-09

Circumferential Strain Assessment by Velocity Vector Imaging and Speckle Tracking Echocardiography - A Validation Study in an Aortic Phantom

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P2-10

Presentation and Outcomes of Patients with Spontaneous Subarachnoid Hemorrhage and Findings of Classical Takotsubo Cardiomyopathy on Echocardiogram: A Single Center Experience and Systematic Review

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P2-11

Aorto-septal Angle and its Relation to Aortic Stiffness and Cardiac Function

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P2-12

Associations between the Carotid and Central Aortic Elastic Properties in Patients with Ischemic Stroke

Sung-Ai Kim, Ock Ki Kim, Sang-Ho Jo, Kyoung-Ha Park, Hyun-Sook Kim, Sang-Jin Han, Woo-Jung Park. Division of Cardiology, Hallym University Sacred Heart Hospital, Anyang, Republic of Korea

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OUTCOMES / COMPARATIVE EFFECTIVENESS

P2-13 THROUGH P2-26

P2-13 MODERATED POSTER

Left Ventricular Global Longitudinal Strain Predicts Recurrent Heart Failure Readmission in Acute Decompensated Heart Failure

Simone Romano, Ibrahim N. Mansour, Mayank Kansal, Hana Gheith, Zachary Dowdy, Carolyn A. Dickens, Cassandra Buto-Colletti, June M. Chae, Thomas D. Stamos. University of Illinois, Chicago, IL

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P2-14

Prognostic Value of Biventricular Remodeling by Echocardiography in Patients with Pulmonary Hypertension

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P2-15

Echocardiographic and Clinical Predictors of Mortality in Septic Shock Patients

Sagger Mawri, Alexander Michaels, George Dirani, Yasser M. Alsafadi, Jainil Shah, Joseph Gibbs, Tarun Jain, Derar Albashaireh, Farshid Bozorgnia, Meredith Mahan, Karthik Ananthasubramaniam. Henry Ford Hospital, Detroit, MI

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P2-16

Incidence, Predictors and Prognostic Impact of Initial Echocardiographic Presentations in Takotsubo Cardiomyopathy

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P2-17

A Critical Assessment of Inappropriate Use of Transesophageal Echocardiography in Infective Endocarditis

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P2-18

Automated Evaluation of Tricuspid Annular Plane Systolic Excursion from 2D Echocardiographic Images

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P2-19

Risk Factors for HFpEF and HFrEF in Patients with Preclinical Diastolic Dysfunction

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P2-20

Left Ventricular Free Wall Longitudinal Strain by Speckle Tracking Echocardiography is Additive to Left Bundle Branch Block in its Association with Response to Cardiac Resynchronization Therapy

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P2-21

Does Left Ventricular Strain Predict Outcomes Among Patients With Nonischemic Cardiomyopathy Hospitalized for Heart Failure?

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P2-22

What is the Daily Impact of the New 2015 ASE Guidelines on Left Atrial Assessment in our Echocardiography Laboratories?

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P2-23

Risk Prediction of Cardiac Events and Cardiac Death after Acute Myocardial Infarction by Speckle Tracking Imaging: A Long-term Follow-up Study

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P2-24

A Family History of Premature Cardiovascular Disease is Independently Associated with Increased Carotid Intima-Media Thickness

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P2-25

Utility of CTA in Infants with Coarctation of the Aorta

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P2-26

Feasibility of Echocardiographic Techniques to Detect Subclinical Cancer Therapeutics-Related Cardiac Dysfunction Among High Dose Patients when Compared to Cardiac Magnetic Resonance Imaging

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VALVULAR HEART DISEASE

P2-27 THROUGH P2-59

P2-27 MODERATED POSTER

Measurement of Stroke Volume and Aortic Valve Area in Patients with Aortic Stenosis: A Comparison of Doppler-Echocardiography versus Cardiac Magnetic Resonance

Romain Capoulade, Florent Le Ven, Julio Garcia, Lionel Tastet, Abdellaziz Dahou, Jean G. Dumesnil, Marie Arsenault, Elisabeth Bedard, Eric Larose, Marie-Annick Clavel, Philippe Pibarot. Quebec Heart and Lung Institute, Quebec, QC, Canada

Author Disclosures: None

P2-28 MODERATED POSTER

Percutaneous Annuloplasty for Mitral Valve Repair: Multicentre Trial Result

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P2-29 MODERATED POSTER

Progression of Mitral Valve Prolapse: A Follow-up Investigation in the Framingham Heart Study

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P2-30

Risk of Significant Tricuspid Regurgitation and Death in Patients with Permanent Pacemakers

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P2-31

Assessment of Severity of Aortic Regurgitation by a Novel M-mode Echocardiography Index

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P2-32

Three-Dimensional Assessment of Features Associated with Transvalvular Aortic Regurgitation after Transcatheter Aortic Valve Replacement: A Real-Time Three-Dimensional Transesophageal Echocardiography Study

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P2-33

Can Speckle Tracking Echocardiography Predict Post-mitral Valve Repair Outcomes in Patients With Normal Preoperative Left Ventricular Ejection Fraction?

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P2-34

Cardiac Valvular Manifestations of Antiphospholipid Syndrome and Surgical Outcomes

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P2-35

The Impact of Age on the Outcomes of Low Flow Versus Normal Flow Severe Aortic Stenosis With Preserved Left Ventricular Function

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P2-36

The Role of Aortic Valve Gradient and Stroke Volume Index in Predicting the Outcomes of Severe Aortic Stenosis With Preserved Ejection Fraction

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P2-37

Added Value of the Dimensionless Index and Valvuloarterial Impedance in the Assessment of Low Flow, Low Gradient Severe Aortic Stenosis with Preserved Left Ventricular Ejection Fraction

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P2-38

Tricuspid Regurgitation Progression and Regression in Pulmonary Arterial Hypertension: Associated Factors and their Effects on Outcomes

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P2-39

Clinical Implications of Electrocardiographic Left Ventricular Hypertrophy with Strain in Patients with Aortic Stenosis and Preserved Ejection Fraction

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P2-40

Correlation between Different Echocardiographic Parameters Reporting on Aortic Stenosis

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P2-41

Increased Left Ventricular Hydraulic Load in Patients with Severe Stenosis Aortic is Associated with Left Ventricular Strain Dysfunction and Increased Mortality Irrespective of Mode of Therapy: A Speckle Tracking Study

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P2-42

Comparison of Long-Term Outcome After Percutaneous Mitral Valvuloplasty versus Mitral Valve Replacement in Moderate to Severe Mitral Stenosis With Left Ventricular Dysfunction

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P2-43

Mitral Valve Orifice Area Determined by Three-Dimensional Transesophageal Echocardiography Predicts High Transmitral Pressure Gradient After MitraClip Therapy

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P2-44

Prognostic Value of Exercised-induced Pulmonary Hypertension in Patients with Secondary Mitral Regurgitation

Masaki Izumo, Kengo Suzuki, Yukio Sato, Maya Tsukahara, Shingo Kuwata, Ryo Kamijima, Kei Mizukoshi, Seisyou Kou, Kihei Yoneyama, Keisuke Kida, Eiji Ohtaki, Sachihiko Nobuoka, Yoshihiro J. Akashi. St. Marianna University School of Medicine, Kawasaki, Japan

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P2-45

Analysis of the Tricuspid Annulus from Transthoracic 3D Echocardiographic Datasets Provides Insight into Normal Tricuspid Valve Dynamics

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P2-46**Predictive Factors of Left Ventricular Outflow Tract Obstruction after Aortic Surgery in Patients with Severe Aortic Stenosis**

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P2-47**Rapid Dynamic Changes in the Degree of Ischemic Mitral Regurgitation After Revascularization for Acute Myocardial Infarction: Importance of Early Reperfusion by Primary Percutaneous Coronary Intervention**

Shun Nishino, Nozomi Watanabe, Toshiyuki Kimura, Tatsuya Nakama, Makoto Furugen, Hiroshi Koiwaya, Yohei Yanagita, Daimon Kuwahara, Tatsuro Takei, Akihiko Matsuyama, Keiichi Ashikaga, Nehiro Kuriyama, Yoshisato Shibata. Miyazaki Medical Association Hospital, Miyazaki, Japan

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P2-48**Prognostic Value of Acute Ischemic Mitral Regurgitation Caused by First-onset Acute Myocardial Infarction**

Shun Nishino, Nozomi Watanabe, Toshiyuki Kimura, Tatsuya Nakama, Makoto Furugen, Hiroshi Koiwaya, Yohei Yanagita, Daimon Kuwahara, Tatsuro Takei, Akihiko Matsuyama, Keiichi Ashikaga, Nehiro Kuriyama, Yoshisato Shibata. Miyazaki Medical Association Hospital, Miyazaki, Japan

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P2-49**Utility of Aortic Stenosis Severity Classified by 3-Dimensional Echocardiography to Predict Cardiovascular Events**

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P2-50**Elongation or Shortening of Primary Chordae Tendineae in Patients With Severe Left Ventricular Dysfunction**

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P2-51**Left Ventricular Global Longitudinal Strain Predicts Early Left Atrial Reverse Remodeling after Mitral Valve Surgery in Patients with Chronic Severe Mitral Regurgitation**

Peter Chipeta, Chi Young Shim, Darae Kim, In Jeong Cho, Sak Lee, Hyuck-Jae Chang, Geu-Ru Hong, Byung-Chul Chang, Byung-Chul Chang, Jong-Won Ha, Namsik Chung. Yonsei University College of Medicine, Seoul, Republic of Korea

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P2-52**Postextrasystolic Transaortic Gradients in Low-Flow, Low-Gradient Aortic Stenosis Correlate with Dobutamine Stress Echocardiography and Differentiates between “Pseudo” and “True” Severe Aortic Stenosis**

Brandon M. Wiley, Ari Pollack, Michelle Wallace, Partho P. Sengupta, Farooq A. Chaudhry. Mount Sinai Hospital NYC, New York City, NY

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P2-53**The Natural History of Paradoxical Low-Flow, Low-Gradient Aortic Stenosis in an Inner City Population**

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P2-54**Improving Accuracy in the Assessment of Structural Heart Disease: A Continuous Quality Initiative**

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Author Disclosures: None

P2-55**Acute Improvements in Global and Apical Strain Following Transcatheter Aortic Valve Replacement: Does the Transapical Approach Alter Left Ventricular Function?**

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P2-56**Baseline Echocardiographic Features Associated with Improvement in Significant Mitral Regurgitation after Cardiac Resynchronization Therapy - START Study Sub-analysis**

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P2-57**Renin-Angiotensin System Inhibitors Improve Long-term Prognosis in Myocardial Infarction with Functional Mitral Regurgitation**

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P2-58**The Impact on Vfunction After Percutaneous Pulmonary Valve Implantation - One Year Followed up by Three-dimensional Echocardiography**

Cuizhen Pan, YL Chen, Xianhong Shu, DX Zhou, WZ Pan, H. Luo, JB Ge. Zhongshan Hospital, Fudan University, Shanghai, China

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P2-59**Right Ventricular Systolic Dysfunction: A Novel Predictor of Mortality in Tricuspid Valve Endocarditis**

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PEDIATRIC AND ADULT CONGENITAL HEART DISEASE

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P2-60 MODERATED POSTER**Patterns of Mechanical Inefficiency in Pediatric Dilated Cardiomyopathy and their Relation to Left Ventricular Function and Clinical Outcomes**

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P2-61 MODERATED POSTER**Speckle-tracking Echocardiographic Measures of Right Ventricular Diastolic Function Correlate with Reference-standard Measures Before and After Preload Alteration**

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P2-62 MODERATED POSTER**Echo or Refer: Impact of Medical Specialty on Diagnostic Yield of Pediatric Echocardiograms**

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P2-63 MODERATED POSTER**Cross-Vendor Speckle Tracking Comparison in a Pediatric Population**

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P2-64 MODERATED POSTER**Right Ventricular Global Longitudinal Strain in Repaired Tetralogy of Fallot**

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P2-65 MODERATED POSTER**Quantitative Echocardiographic Measures in the Assessment of Single Ventricle Function Post Fontan: Incorporation into Routine Clinical Practice**

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P2-66**Prospective Evaluation of Discrepancy Detection Tool in Pediatric Facilitated Echocardiographic Reporting**

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P2-67**Subclinical Left Ventricular Systolic Longitudinal Dysfunction and Low Serum Insulin-Like Growth**

Factor-I Levels in Neonates with Intrauterine Growth Restriction: Implication for Fetal Programming of Adult Onset Cardiovascular Disease

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P2-68

Mechanical Dyssynchrony and Abnormal Regional Strain Promote Erroneous Estimates of Systolic Function in Pediatric Heart Transplant

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P2-69

Implementation of a Quality Improvement Program Improves Wait Time for Patients in a Busy Pediatric Echocardiography Laboratory

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P2-70

Right Ventricular and Pulmonary Valve Function Before and After Pulmonary Valve Replacements - Comparison of Transeatheter vs. Surgical Approach

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P2-71

Preoperative Longitudinal Strain is Associated with Length of Stay after the Fontan Procedure

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P2-72

Efficacy to Effectiveness: Engaging Sonographers to Improve Prenatal Detection of Congenital Heart Defects

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P2-73

Correlation of 2D Strain with Invasive Measurements for Intraoperative Assessment of Right and Left Ventricular Mechanics in Juvenile Pigs

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P2-74

Does Real-time Review of Images Prior to Outpatient Discharge Improve the Completeness of Outpatient Pediatric Echocardiograms?

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P2-75

Variation in Intraoperative and Postoperative/Pre-discharge Echocardiographic Findings in Congenital Cardiac Surgery

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P2-76

Preoperative Echocardiographic Predictors of Left Ventricular Outflow Tract Reintervention following Repair of Interrupted Aortic Arch with Ventricular Septal Defect

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P2-77

Normal Ranges of Left Ventricular Strain Measures in Children: A Systematic Review and Meta-Analysis

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P2-78

Pulmonary Artery Acceleration Time is an Early Marker of Abnormal Pulmonary Hemodynamics in Preterm Infants With Bronchopulmonary Dysplasia

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P2-79

2D Strain is a More Precise Measure of LV Function Than Ejection Fraction or Fractional Shortening in Pediatric Patients

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P2-80

The Effect of Maternal Hyperoxygenation on Cerebral and Placental Vasoregulation in the Fetus with Left Heart Hypoplasia

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P2-81

Reproducibility of Left Ventricular Dimension vs. Area vs. Volume Measurements in Pediatric Patients with Dilated Cardiomyopathy

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P2-82

Device Closure of Atrial Septal Defect Affects Left Atrial Function Less Than Surgical Closure in Adults

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P2-83

Does Transesophageal Echocardiography Accurately Identify Postoperative Intramural Ventricular Septal Defects?

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P2-84

Changes in Right Ventricular Function and Deformation Analysis in Children With Hypoplastic Left Heart Syndrome Before and After the Hybrid Procedure

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P2-85

Assessment of Early Diastolic Intraventricular Pressure Difference of Left Ventricle in Patients with Repaired Tetralogy of Fallot

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Assessment of Right Ventricular Ejection Fraction Using Newly Developed 3-dimensional Speckle Tracking Echocardiography: Application for Various Disease Including Adult Congenital Heart Diseases

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P2-87

Fetal Predictors of Balanced Atrioventricular Septal Defect and Outcomes

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P2-88**Abnormal Myocardial Recoil in Cardiac Allograft Vasculopathy: An Earlier Predictor of Diastolic Dysfunction in Children?**

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P2-89**Successful Use of Fetal Tele-Echocardiography at a Small Regional Hospital**

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P2-90**Gestational Age Affects the Predictive Value of Left and Right Heart Morphometry Comparisons in the Fetus with Suspected Coarctation**

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P2-91**Right Atrial Mechanics Provide Useful Insights in Idiopathic Pulmonary Hypertension in Children**

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P2-92**Torsion in Patients with Single Ventricle Anatomy Before and After Fontan Surgery**

Michael J. Grattan, Luc Mertens, Mark K. Friedberg, Lars Grosse-Wortmann, Andreea Dragulescu. The Hospital for Sick Children, Toronto, ON, Canada

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P2-93**Predicting Post-Operative Outcomes in Congenital Heart Disease Using a Novel Velocity Time Integral-Lactate Score**

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P2-94**Echocardiographic Screening for Rheumatic Heart Disease in Children in American Samoa**

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Author Disclosures: None

P2-95**Premature Restriction and Closure of Foramen Ovale in Structurally Normal Hearts in Fetuses: Echocardiographic Characteristics and Outcomes**

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P2-96**Echocardiographic Diagnosis of Right Ventricular-Dependent Coronary Circulation in Pulmonary Atresia with Intact Ventricular Septum**

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P2-97**Utility of a Standardized Post-Cardiopulmonary Bypass Epicardial Echocardiography Protocol for Stage I Norwood Palliation**

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P2-98**Interobserver Variability of Systolic Myocardial Deformation Values Improves at Later Gestational Age in a Longitudinally Acquired Cohort of Fetuses**

Shiraz A. Maskatia, Ricardo Pignatelli, Nancy A. Ayres, Carolyn A. Altman, Haleh Sangi-Haghpeykar, Wesley Lee. Baylor College of Medicine, Houston, TX

Author Disclosures: None

P2-99**Natural History of Cardiac Allograft Status - Echocardiographic and Serologic Biomarkers over Two Post-Transplant Years in Rejection-Free Pediatric Heart Recipients**

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P2-100**Multi-directional Left ventricular Myocardial Strain in Children with Valvular Aortic Stenosis: Diminished Longitudinal Strain and Strain Rate among the Older Children with Moderate to Severe Aortic Stenosis is Evidence of Sub Endocardial Ischemia**

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Author Disclosures: None

P2-101**Identifying Precursors for the Development of Subaortic Stenosis Following Surgical Repair of Atrioventricular Septal Defects**

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P2-102**Left Ventricular Rotational Mechanics in Children after Heart Transplantation**

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P2-103**Evaluation of Residual Coarctation in Patients with Hypoplastic Left Heart Syndrome After Stage I Palliation**

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Author Disclosures: None

P2-104**Diagnostic Yield of Echocardiography During Initial Outpatient Pediatric Cardiology Evaluation**

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P2-105**Gaps in the First Pediatric Appropriate Use Criteria for Pediatric Echocardiography**

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P2-106**Temporal Trends in Utilization of Echocardiography in Outpatient Pediatric Cardiology Over the Last 15 Years**

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P2-107**Evaluation of Myocardial Function Using Tilt-Table Echocardiography and MRI T2* in Children With Hemoglobinopathies**

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P2-108**Echocardiographic Predictors of Reintervention after Reverse Subclavian Flap Repair of Aortic Arch Hypoplasia and Coarctation of the Aorta**

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P2-109**Regional Strain and Area Determination by Three-Dimensional Echocardiography in Left Ventricular Aneurysms**

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P2-110**Palm-Held Mini-Sized Ultrasonocardiographic Scanning Can Improve Diagnostic Accuracy of Physical Examination in Patients of Congenital Heart Disease**

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Author Disclosures: None

P2-111**The Quantitative Echocardiographic Assessment of Pulmonary Regurgitation After Surgical Repair of Tetralogy of Fallot Using the Novel Imaging Modality, the Vector-Flow Mapping**

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Author Disclosures: None

P2-112**Diminished Right Ventricular Strain Rate in 27 Children With Cystic Fibrosis - Clinical Correlation With Lung Function Testing at 4.7 Year Follow Up**

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P2-113**Global Longitudinal Strain Imaging in Pediatric Heart Transplant Recipients**

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P2-114**Comparison of 2D and 3D Global Longitudinal Strain in Pediatric Patients with Congenital Heart Disease**

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P2-115**Cost-effectiveness of Screening and Treatment of Congenital Complete Heart Block in Mothers with Positive SSA/Ro-SSB/La Autoantibodies**

Paulette A. Kropf, Piers Barker, Lori Orlando, Leo Brancazio, Megan Clowse, Stephen Miller, Gregory Tatum. Duke University, Durham, NC

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P2-116**Increased Prenatal Detection of Congenital Heart Disease through Improved Regional Referral Services and Education**

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Author Disclosures: None

P2-117**Aortic Root Velocity Vector Imaging in Children and Young Adults With Marfan Syndrome**

James Strainic, Anna Mitchell, Ravi Ashwath. Rainbow Babies and Children's Hospital, Cleveland, OH

Author Disclosures: None

P2-118**Efficacy of Chloral Hydrate vs. Pentobarbital in Oral Sedation for Transthoracic Echocardiography, A Retrospective Review**

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P2-119**Longitudinal Assessment of Right Ventricular Function by Global Longitudinal Strain in Patients With Tetralogy of Fallot in the First 2 Years Following Initial Repair**

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P2-120**Evaluation of Right Ventricular Function in Pediatric Patients with Pulmonary Hypertension Using Myocardial Performance Index from Tissue Doppler Imaging**

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Author Disclosures: None

P2-121**Preoperative Echocardiographic Measures in Interrupted Aortic Arch: Which Ones Best Predict Surgical Approach and Outcome?**

Ginnie Abarbanell, William L. Border, Brian Schlosser, Gemma Morrow, Bahaaldin Alsoufi, Michael Kelleman, Ritu Sachdeva. Emory University, Atlanta, GA

Author Disclosures: None

P2-122**Survival in Single Ventricle Heterotaxy: Do Echocardiographic Parameters Inform Outcome?**

Ginnie Abarbanell, Brian Schlosser, Curtis Travers, William Border, Animesh Tandon, Bahaaldin Alsoufi, Ritu Sachdeva. Emory University, Atlanta, GA

Author Disclosures: None

P2-123**Atrial Septal Aneurysm: A Benign Association with Left Ventricle-to-Right Ventricle Size Discrepancy in the Fetus**

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P2-124**Abnormal Systolic Motion of the Mitral Valve in Adults with Tetralogy of Fallot**

Anushree Agarwal, Ian S. Harris, Vaikom S. Mahadevan, Elyse Foster. University of California San Francisco, San Francisco, CA

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P2-125**Comparison of Echocardiographic and Cardiac Magnetic Resonance Parameters of Ventricular Strain in Patients After the Fontan Operation**

Sunil J. Ghelani, David M. Harrild, Tal Geva, Rahul H. Rathod. Boston Children's Hospital, Boston, MA

Author Disclosures: None

P2-126**Evolutionary Assessment of Myocardial Function in Pediatric Patients With Repaired Tetralogy of Fallot: Persistent Diastolic Dysfunction and Regional Variation in Ventricular Deformation Indexes**

Claudia Regina Pinheiro de Castro, Maria Angelica Binotto, Maria Cecília Farah, Nana Miura, Marcelo Biscegli Jatene, Wilson Mathias Junior, Vera Demarchi Aiello. Heart Institute (InCor), Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil

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P2-127**Assessment of Left Ventricular Systolic Function in Neonatal Sepsis by Using Two-dimensional Speckle Tracking Imaging**

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P2-128**Longitudinal Echocardiographic Follow up for Right Ventricular Outflow Obstruction after Arterial Switch**

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P2-129**3D Echocardiography Based Evaluation of the Area of a Modeled Ventricular Septal Defect**

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Author Disclosures: None

P2-130**Inferior Vena Cava Compression Maneuver as a Novel Technique to Detect Patent Foramen Ovale: Transesophageal Echocardiographic Study**

Eiji Yamashita, Tomoyuki Murata, Eri Goto, Takehito Sasaki, Kohki Nakamura, Koji Kumagai, Shigeto Naito, Hiroshi Hoshizaki, Shigeru Oshima. Gunma Prefectural Cardiovascular Center, Maebashi, Japan

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P2-131**Left Ventricular Mass Quantification by Two Dimensional Echocardiography in the Pediatric Population: Correlation with Cardiac Magnetic Resonance Imaging**

Bradford Chu, Puneet Bhatla, John Gilbreth, Achiau Ludomirsky. New York University, New York, NY

Author Disclosures: None

P2-132**A Method for Quantitative Evaluation of Ventricular Septal Flattening in Relation to Right Ventricular Systolic Pressure**

Timotheus G. Watson, William Border, Usama Kanaan, Timothy Slesnick, Ritu Sachdeva. Sibley Heart Center Cardiology, Atlanta, GA

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P2-133**Diagnostic Characteristics and Clinical Outcomes for Children with Idiopathic Restrictive Cardiomyopathy**

Heather Anderson, Frank Cetta, David Driscoll, Jonathan Johnson. Mayo Clinic, Rochester, MN

Author Disclosures: None

P2-134**Inter-vendor Feasibility and Variability of Speckle-Tracking Echocardiographic Measures of Right Ventricular Function in Pediatric Subjects**

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P2-135

Reconstituted Oral Chloral Hydrate from Crystals for Echo Sedation - as Good as the Old Formulation?

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P2-136

Specificity of the WHF Criteria for the Diagnosis of Rheumatic Heart Disease: Can a Low-risk Population Help to Distinguish Between Early Disease and Normal?

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P2-137

Using Improvement Methodology to Decrease Inpatient Echocardiography Turn-Around Time in a Pediatric Lab

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P2-138

Spectrum of Echocardiographic Findings Associated with Systemic Fungal Infections

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P2-139

A Tale of Two Devices: Aortic Erosion by Amplatzer Septal Occluders

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Author Disclosures: None

P2-140

Successful Treatment of Myocardial Calcification in a Neonate with Enteroviral Myocarditis Utilizing a Novel Antiviral Therapy

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P2-141

Absent Aortic Valve and Agenesis of the Ascending Aorta with Double Outlet Right Ventricle and Complete Atrioventricular Canal Defect

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P2-142

Double Trouble: Fetal Diagnosis of a Vascular Ring and Pulmonary Artery Sling

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P2-143

Aneurysm of Ductus Arteriosus Occluded by a Large Thrombus, Compressing the Left Pulmonary Artery: The Role of Echocardiogram in an Unusual Clinical Presentation

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P2-144

3-D Modeling of a Criss-Cross Heart

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P2-145

Isolated Atrial Inversion in Dextrocardia

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P2-146

Uhl's Anomaly: A Fetal Case

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INTRAPROCEDURAL ECHOCARDIOGRAPHY (OPERATING ROOM AND INTERVENTIONAL LAB) / TEE

P2-147 through P2-160

P2-147 MODERATED POSTER

The Mechanism of Mitral Regurgitation Influences the Temporal Dynamics of the Vena Contracta Area as Measured with Color Flow Doppler

Fred Cobey¹, Elena Ashihkmina², Thomas Edrich³, John Fox², Douglas Shook², Bruce Bollen⁴, Janis Breeze⁵, Stanton Shernan². ¹Tufts Medical Center, Boston, MA; ²The Brigham and Women's Hospital, Boston, MA; ³Salzburg General Hospital and Paracelsus Private Medical University, Salzburg, Austria; ⁴International Heart Institute of Montana, Missoula, MT; ⁵Tufts Clinical and Translational Science Institute, Tufts University, and Institute for Clinical Research and Health Policy Studies, Tufts Medical Center, Boston, MA

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P2-148 MODERATED POSTER

Do Real-Time Three-Dimensional Transesophageal Echocardiographic Images Actually Reflect What We Directly Visualize?

Jeh-wei Cheng, Sujethra Vasu, Phillip Cheng, Bharathi Upadhyaya, Brandon Stacey, Min Pu. Wake Forest Baptist Health, Winston-Salem, NC

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P2-149 MODERATED POSTER

Aortic Annulus Sizing Using a Novel Automated Method: Can Echo Select the Correct Valve Size?

Tawai Ngernsritrakul¹, David J. Hur¹, Kolene E. Mcdade¹, Rachel Kaplan¹, Helene Houle², Ben A. Lin¹, Irena Vaitkeviciute¹, Michael Cleman¹, Abeel A. Mangi¹, John K. Forrest¹, Lissa Sugeng¹. ¹Yale University, New Haven, CT; ²Ultrasound Division, Siemens Medical, Mountain View, CA

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P2-150

Echocardiography-guided Percutaneous Per-ventricular Laser Ablation of Ventricular Septum: ex vivo and in vivo Studies in a Canine Model

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P2-151

The Application of a Novel Three-dimensional Transesophageal Echocardiographic Technique for the Assessment of Left Atrial Appendage Anatomy in Transcatheter LAA Closure

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P2-152

Echocardiographic Assessment of Device Related Thrombus in the PROTECT-AF (WATCHMAN Left Atrial Appendage System for Embolic Protection in Patients with Atrial Fibrillation) Trial

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P2-153

Quantification of Air Emboli in Transesophageal Echocardiograms Using Digital Image Processing Algorithm

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P2-154

Right Ventricular Strain as a Predictor of One-Year Mortality After Mitral Valve Replacement

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P2-155

Results of Pectus Excavatum Repair Surgery - Just Cosmetic or of Structural and Functional Benefit?

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P2-156

Association of Epicardial Adipose Tissue with Atherosclerosis of Thoracic Aorta: An Echocardiographic Study

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P2-157

Procedural Guidance Using a Fused Fluoroscopic/Three Dimensional Echocardiography Imaging System in Congenital Heart Disease

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P2-158

Geometric Changes in Aortic Annulus and Left Ventricular Outflow Tract and Its Impact on the Incidence of Prosthesis-Patient Mismatch After Transcatheter Aortic Valve Replacement: An Intraprocedural Three-Dimensional Transesophageal Echocardiography Study

Hiroto Utsunomiya, Hirotsugu Mihara, Yuji Itabashi, Reza Arsanjani, Robert J. Siegel, Tarun Chakravarty, Hasan Jilaihawi, Raj R. Makkar, Takahiro Shiota. Cedars-Sinai Heart Institute, Los Angeles, CA

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P2-159

Using the Aortic Wall Thickness in Transesophageal Echocardiography as a Risk Marker for Aortic Dissection

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P2-160

Association between Pulmonary Venous Flow Profile and Invasive Hemodynamics during Percutaneous Mitral Valve Repair for Symptomatic Mitral Regurgitation

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3D ECHOCARDIOGRAPHY

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P2-161 MODERATED POSTER

Quantitation of Global and Regional Mitral Valve Strain from Real-time 3-Dimensional Echocardiography in Man: Comparison of Normal Valves with Organic Mitral Regurgitation

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Author Disclosures: None

P2-162 MODERATED POSTER

Novel Approach to Three-Dimensional Echocardiographic Quantification of Right Ventricular Volumes and Function from Focused Views

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P2-163 MODERATED POSTER

Automatic Quantification of Aortic Regurgitation Using 3D Full Volume Color Doppler Echocardiography: A Validation Study with Cardiac Magnetic Resonance Imaging

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Author Disclosures: None

P2-164

Three-dimensional Speckle Tracking Echocardiography Derived Strain Parameters Could Assess Infarct Transmurality and Predict Functional Recovery in Patients with ST-Elevation Myocardial Infarction

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Author Disclosures: None

P2-165**Regional Mapping of Left Ventricular Hypertrophy Patterns: Insights from 3D Echocardiography**

Yong Hyun Park, Mark D. Handschumacher, Xin Zeng, Timothy C. Tan, Romain Capoulade, Judy Hung. Massachusetts General Hospital, Boston, MA

Author Disclosures: None

P2-166**4D-Speckle Tracking Echocardiographic Global and Area Strain Determination in Hypertrophic Cardiomyopathy**

Hannah Tam, Lydia Tam, Muhammad Ashraf, Meihua Zhu, David J. Sahn. Oregon Health & Science University, Portland, OR

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P2-167**Real-Time 3D-Echocardiography of the Pediatric Right Ventricle - Pediatric Reference-values for Right Ventricular Volumes Using Knowledge Based Reconstruction**

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P2-168**Three-Dimensional Assessment of Aortic Valve Annulus in Severe Aortic Stenosis Pre-TAVR Using a Novel Automated Method: Can We Trust the Model?**

Kolene E. McDade¹, Tawai Ngernsritrakul², Rachel Hylen¹, Lakshman Subrahmanyam³, Helene Houle⁴, Lissa Sugeng². ¹Yale New Haven Hospital Internal Medicine Residency, New Haven, CT; ²Yale New Haven Hospital Department of Cardiology, New Haven, CT; ³Maine Health Cardiology, Portland, ME; ⁴Ultrasound Division, Siemens Medical, Mountain View, CA

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P2-169**Semi-Automated Speckle Tracking: Is it Time to Replace Biplane Simpson's Method?**

Ian H. Crandall, Tawai Ngernsritrakul, Kelly Giordano, Nancy Cavallaro, Ben Lin, Lissa Sugeng. Yale New Haven Hospital, New Haven, CT

Author Disclosures: None

P2-170**Measurement of Inter-Trigonal Distance by 3D Transesophageal Echocardiography for Prediction of Ring Size for Mitral Valve Repair**

Kikuko Obase, Roberto M. Lang, Andrew Hollatz, Farhan

Farooqui, Joseph D. Roberts, Mohammed M. Minhaj, Mark Chaney, Hisam H. Balkhy. University of Chicago, Chicago, IL

Author Disclosures: None

P2-171**Improving on the Diagnostic Characteristics of Echocardiography for Predicting Pulmonary Hypertension**

Kathleen Broderick-Forsgren, Tina Davenport, Joseph Sivak, Charles William Hargett, Michael C. Foster, Andrew Monteagudo, Sudarshan Rajagopal, Kristine Arges, Eric J. Velazquez, Zainab Samad. Duke University Hospital, Durham, NC

Author Disclosures: E. J. Velazquez – 2 (Alnylam Incorporated, Novartis), 4 (Abbott Vascular, NIH); Z. Samad – 4 (Boston Scientific, Gilead, NHLBI)

P2-172**Assessment of Mitral Leaflet Stretch Phenomenon by Using Real-time Three-dimensional Echocardiography**

Tomoko Fukuda¹, Nozomi Watanabe², Keiichi Ashikaga², Nehiro Kuriyama², Reiko Toida¹, Shun Nishino², Toshiyuki Kimura², Tetsunori Ishikawa¹, Yoshisato Shibata², Kazuo Kitamura¹, Kiyoshi Yoshida³. ¹First Department of Internal Medicine, University of Miyazaki Hospital, Miyazaki, Japan; ²Miyazaki Medical Association Hospital, Miyazaki, Japan; ³The Sakakibara Heart Institute of Okayama, Okayama, Japan

Author Disclosures: None

P2-173**Dynamic Three Dimensional Strain During Dobutamine Stress Echocardiography in Detection of Ischemia: Comparison with Two-Dimensional Strain**

Masood Ahmad¹, Meneleo M. Dimaano^{1,2}, Hien Nguyen^{1,2}, Tianrong Xie^{1,2}. ¹University of Texas Medical Branch, Galveston, TX; ²University of Texas Galveston, Galveston, TX

Author Disclosures: None

P2-174**Added Value of Live 3D TEE During Procedures for Treatment of Fontan Patients**

David A. Roberson, Vivian Wei Cui, Waseem Cossor. Advocate Children's Heart Institute, Oak Lawn, IL

Author Disclosures: D.A. Roberson – 1 (Philips Healthcare), V. Cui – 1 (Philips Healthcare)

P2-175**Effect of Percutaneous Mitral Valvuloplasty on Left Atrial Remodeling: Importance of being in Sinus Rhythm**

Juliana Rodrigues Soares¹, Judy Hung², Lucas Lodi-Junqueira¹, Guilherme Rafael S. Athayde¹, Bruno R. Nascimento¹, William A. Esteves¹, Vinicius Tostes Carvalho¹, Timothy C. Tan², Marcia M. Barbosa¹, Maria Carmo Pereira Nunes¹. ¹Federal University of Minas Gerais, Belo Horizonte,

Brazil; ²Cardiac Ultrasound Lab, Massachusetts General Hospital, Harvard Medical School, Boston, MA

Author Disclosures: None

P2-176

Impact of Percutaneous Mitral Valvuloplasty on Left Ventricular Function Assessed by 3D Echocardiography in Rheumatic Mitral Stenosis

William Antonio M. Esteves¹, Judy Hung², Lucas Lodi-Junqueira¹, Guilherme Rafael S. Athayde¹, Juliana Rodrigues Soares¹, Bruno R. Nascimento¹, Marcia M. Barbosa¹, Timothy C. Tan², Xin Zeng², Maria Carmo P. Nunes¹. ¹Federal University of Minas Gerais, Belo Horizonte, Brazil; ²Cardiac Ultrasound Lab, Massachusetts General Hospital, Harvard Medical School, Boston, MA

Author Disclosures: None

P2-177

Call for the Development of a Three-Dimensional Printing Algorithm Specific to Echocardiography: An Initial Study with an In Vitro Validation

Min Pu, Jeh-wei Cheng, Jian Zhang, Philips Cheng, Xiaobo Zhou. Wake Forest Baptist Health, Winston-Salem, NC

Author Disclosures: X. Zhou – 4 (NIH)

P2-178

Mitral Valve Area Quantification: Comparison of RT-3D-TEE Planimetry, Pressure Half-time and Mean Gradient

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Author Disclosures: None

P2-179

Three-dimensional Echocardiography-Based Assessment of Left Atrial Size and Deformation in Healthy Children

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Author Disclosures: None

P2-180

Prediction of Left Ventricular Filling Pressure by Three-dimensional Speckle-tracking Echocardiography in Patients With Coronary Artery Disease

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Author Disclosures: None

P2-181

Assessing of Left Ventricular Torsional Mechanics Using 2D and 3D Speckle Tracking Imaging during Pregnancy

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Author Disclosures: None

P2-182

Clinical Feasibility of a Novel Three-dimensional Speckle Tracking Imaging System Specialized for the Right Ventricle

Yoshihiro Seo, Tomoko Ishizu, Akiko Atsumi, Yoshiharu Enomoto, Yoshie Harimura, Kazutaka Aonuma. University of Tsukuba, Tsukuba, Japan

Author Disclosures: Y. Seo – 4 (Toshiba Medical Systems)

P2-183

Right Ventricular Structure and Function during Exercise in Healthy Subjects

Meriam Astrom Aneq¹, Arjun Sinha², Julia McClelland², Dwight Bibby², Qizhi Fang², Rakesh Mishra², Melvin Scheinman², Greg Marcus², Carol Maguire², Kourtney Imburgia², Nelson B. Schiller². ¹Dpt of Clinical Physiology and Dpt. of Medical and Health Sciences, Linköping, Sweden; ²Division of Cardiology, University of California, San Francisco (UCSF), San Francisco, CA

Author Disclosures: None

P2-184

Efficacy and Accuracy of Novel Automated Mitral Valve Quantification: Three-dimensional Transesophageal Echocardiographic Study

Misako Toki, Nobuyuki Kagiya, Shuichiro Fukuda, Shingo Aritaka, Tomonori Miki, Yasuhiko Kamata, Minako Ohara, Akihiro Hayashida, Keizo Yamamoto, Kiyoshi Yoshida. The Sakakibara Institute of Okayama, Okayama, Japan

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P2-185

Impact of Left Atrial Dilation on Mitral Annulus Sphericity

Yuki Izumi, Keitaro Mahara, Risa Fukumoto, Mitsuhiko Ota, Atsushi Shimizu, Kanako Kishiki, Toshihiro Fukui, Jun Umemura, Syuichiro Takanashi, Tetsuya Sumiyoshi, Hitonobu Tomoike. Sakakibara Heart Institution, Tokyo, Japan

Author Disclosures: None

P2-186

Normative Study of Left Atrium Phasic Volumetric Changes by Three-Dimensional Echocardiography in 225 Healthy Volunteers

Marcelo H. Miglioranza¹, Luigi P. Badano², Denisa Muraru², Sorina Mihaila³, Umberto Cucchini², Diletta Peluso², Davide Ermacora², Carla Marotta², Antonio A. Arcidiacono², Andronikos Nalmpantis², Sabino Iliceto². ¹Cardiology Institute of Rio Grande do Sul, Porto

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P2-187

Comparison of Three-dimensional Echocardiography and Multidetector Computed Tomography in Sizing the ‘d-shaped’ Mitral Annulus

George Mak, Philipp Blanke, Jonathan Leipsic, Chris Naoum, Robert Moss, Chris Thompson, Bradley Munt, Jasmine Grewal. St Paul’s Hospital, Vancouver, BC, Canada

Author Disclosures: None

P2-188

A Preliminary Study of Left Ventricular Systolic Function in Patients With Hyperthyroidism Heart Disease by Three-Dimensional Speckle Tracking Imaging

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Author Disclosures: None

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Subclinical Impairment of Left Ventricular Function in Patients with End Stage Renal Failure Detected by Three-dimensional Speckle Tracking Echocardiography

Minmin Sun, Yu Kang, CZ Pan, XS Cao, Xianhong Shu. Zhongshan Hospital, Fudan University, Shanghai, China

Author Disclosures: None

P2-190

Single-beat Full-volume Capture Real-Time Three-dimensional Echocardiography Compared With Two-Dimensional Echocardiography

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Author Disclosures: None

P2-191

Comparison of Right Ventricular Volumes, Ejection Fraction, and Mechanical Indices Derived Automatically From 3D Speckle Tracking to Cardiac Magnetic Resonance Imaging

Aasha S. Gopal, Rena S. Toole, Nathaniel Reichel. St. Francis Hospital, Roslyn, NY

Author Disclosures: None

P2-192

Radial Strain Determination from 4D Echocardiographic Volumes Using 3D-Wall Motion Tracking

Rosie Bleck, Kacie Amacher, Meihua Zhu, Cole Streiff, Sumito Kimura, Sreyas Ravi, Austin Park, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

Author Disclosures: None

P2-193

Mechanisms of Aortic Regurgitation in Type A Thoracic Aortic Aneurysm and Dissection: Real-time 3D Transesophageal Echocardiography Observations

Zhongshan Gou¹, Ye Zhang¹, Lin Sun¹, Jiancheng Han¹, Xiaowei Liu¹, Shuping Ge², Yihua He¹. ¹Beijing An Zhen Hospital/Capital Medical University, Beijing, China; ²St. Christopher’s Hospital for Children/Drexel University College of Medicine, Philadelphia, PA

Author Disclosures: None

ECHOCARDIOGRAPHY IN SOE / ARRHYTHMIAS / ATRIAL FUNCTION

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P2-194 MODERATED POSTER

Relation between Left Atrial Deformation Imaging in Varying Degrees of Left Ventricular Diastolic Dysfunction

Amita Singh, Karima Addetia, Francesco Maffessanti, Victor Mor-Avi, Roberto Lang. University of Chicago Medical Center, Chicago, IL

Author Disclosures: None

P2-195 MODERATED POSTER

Incremental Value of Left Atrial Global Longitudinal Strain for Prediction of Post Stroke Atrial Fibrillation in Patients with Acute Ischemic Stroke

Darae Kim¹, Chi Young Shim¹, In Jeong Cho¹, Young Dae Kim², Hyo Suk Nam², Hyuk-Jae Chang¹, Geu-Ru Hong¹, Jong-Won Ha¹, Namsik Chung¹. ¹Cardiology Division, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea; ²Department of Neurology, Yonsei University College of Medicine, Seoul, Republic of Korea

Author Disclosures: None

P2-196 MODERATED POSTER

Left Atrial Strain Predicts Atrial Fibrillation Recurrence in Patients with Persistent Atrial Fibrillation and Preserved Ejection Fraction Treated with Catheter Ablation

Mislav Vrsalovic¹, Scott L. Hummel², Hamid Ghanbari², Craig Alpert², Hakan Oral², Theodore J. Koliak². ¹University Hospital Centre Sestre Milosrdnice, Zagreb, Croatia; ²University of Michigan Cardiovascular Center, Ann Arbor, MI

Author Disclosures: None

P2-197**Prevalence of Intrapulmonary Shunting by Contemporary Contrast Transthoracic Echocardiography: Implications for Diagnosis in Hepatopulmonary Syndrome and Etiology of Cryptogenic Stroke**

Everett Lai¹, Shuo Xu¹, Anjori Bhatia², Michael Mulock³, Maria G. Karas⁴, Alan Z. Segal⁴, Linda M. Gerber⁴, Richard B. Devereux⁴, Jorge R. Kizer¹. ¹Albert Einstein College of Medicine, Bronx, NY; ²Tufts University, Boston, MA; ³University of Pittsburgh, Pittsburgh, PA; ⁴Weill Cornell Medical College, New York, NY

Author Disclosures: None

P2-198**Predictor of Reversible Tricuspid Regurgitation in Patients with Functional Severe Tricuspid Regurgitation and Atrial Fibrillation**

Jae Yeong Cho¹, Kye Hun Kim¹, Dong Han Kim², Hyun Ju Yoon¹, Youngkeun Ahn¹, Myung Ho Jeong¹, Jeong Gwan Cho¹, Jong Chun Park¹. ¹Chonnam National University Hospital, Gwangju, Republic of Korea; ²St. Carollo Hospital, Suncheon, Republic of Korea

Author Disclosures: None

P2-199**Left Atrium in Dynamic Exercise: Quantitation of Flow Rate Changes by 4D Volume in Normal Subjects**

Douglas Hayami¹, Atif Qasim¹, Alexis Beatty², Liza Thomas³, Sina Dadfarmay¹, Qizhi Fang¹, Dwight Bibby¹, Gregory Marcus¹, Carol Maguire¹, Kourtney Imburgia¹, Nelson B. Schiller¹. ¹University of California, San Francisco, San Francisco, CA; ²University of Washington, Seattle, WA; ³University of New South Wales, Sydney, Australia

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P2-200**Left Atrium Longitudinal Strain by Two-dimensional Speckle-tracking Echocardiography in Healthy Volunteers: Reference Values and Analysis of Their Physiologic Determinants**

Luigi P. Badano¹, Marcelo H. Miglioranza², Denisa Muraru¹, Sorina Mihaila³, Patrizia Aruta¹, Gabriella Romeo¹, Antonella Cecchetto¹, Diletta Peluso¹, Umberto Cucchini¹, Sabino Iliceto¹. ¹Department of Cardiac, Thoracic and Vascular Sciences, University of Padua, Padua, Italy; ²Cardiology Institute of Rio Grande do Sul, Porto Alegre, Brazil; ³Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

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P2-201**Does Non-invasive Assessment of Left Atrial Volume and Function by 2D Speckle Tracking Correlate With Invasive Assessment of Atrial Myopathy as Measured by Low Left Atrial Endocardial Voltage in Those Undergoing Ablation for Atrial Fibrillation?**

Maithri Siriwardena, Paul E. Szmitko, Frederic Poulin, Ki Dong, Vijay Chauhan, Anna Woo. Toronto General Hospital, Toronto, ON, Canada

Author Disclosures: None

P2-202**Sex Differences in Left Atrial Strain and its Relationship to CHADS2 Score in Patients with Atrial Fibrillation**

Kuniko Yoshida. Gunma University, Gunma, Japan

Author Disclosures: None

P2-203**Impact of Atrial Fibrillation on Tricuspid Annular Plane Systolic Excursion in Patients without Organic Cardiovascular Disease**

Yuta Torii, Kenya Kusunose, Hirotsugu Yamada, Mika Bando, Syuji Hayashi, Susumu Nishio, Masami Yamao, Rie Amano, Yukina Hirata, Masataka Sata. Tokushima University Hospital, Tokushima, Japan

Author Disclosures: None

P2-204**Echocardiographic Predictors of Pulmonary Edema in Patients with Diastolic Dysfunction**

Omar Issa, Julio G. Peguero, Carlos A. Podesta, Daniela Pirela, Javier De La Cruz, Youssef Shaban, Juan Carlos Brenes. Mount Sinai Medical Center, Miami Beach, Miami, FL

Author Disclosures: None

P2-205**The Association of Resting Right Atrial Size and Function with Exercise Capacity in a Healthy Population**

Arjun Sinha¹, Meriam A. Aneq², Dwight Bibby¹, Qizhi Fang¹, Greg Marcus¹, Carol Maguire¹, Kourtney Imburgia¹, Nelson Schiller¹, Rakesh Mishra¹. ¹University of California San Francisco, San Francisco, CA; ²Linkoping University, Linkoping, Sweden

Author Disclosures: None

P2-206**The Left Atrial Ejection Force: A Marker of Left Atrial Involvement in Patients with Severe Aortic Stenosis**

Omair Ali, Abrar Sayeed, Ali Abdul Jabbar, Ajay Agarwal, Bryan White, Abdul Wase. Wright State University, Dayton, OH

Author Disclosures: None

P2-207

Neither Left Atrial Appendage Emptying Flow Velocity nor Left Atrial Emptying Fraction, but Left Atrial Strain is Independently Associated with CHA2DS2-VASc Score

Koji Kurosawa¹, Kazuaki Negishi², Hidemi Sorimachi¹, Kuniko Yoshida¹, Masaru Obokata¹, Masahiko Kurabayashi¹. ¹Gunma University Graduate School of Medicine, Maebashi, Japan; ²Menzies Research Institute Tasmania, Hobart, Australia

Author Disclosures: None

P2-208

Left Atrial Strain may Predict New Onset Atrial Fibrillation in Patients with Chronic Heart Failure with Preserved Ejection Fraction

Dimitrios Maragiannis, Kelly McGregor, Jiaqiong Xu, Sherif F. Nagueh, Karla Kurrelmeyer. Methodist Hospital, Houston, TX

Author Disclosures: None

P2-209

Echocardiographic Findings in Patients with Cryptogenic Stroke: A Case-Control Study

Julio G. Peguero, Carlos A. Podesta, Omar Issa, Saberio Lo Presti, Juan C. Brenes. Mount Sinai Medical Center, Miami Beach, FL

Author Disclosures: None

P2-210

Determinants and Prognostic Implication of Discordance between Left Atrial Diameter and Volume in Patients with Nonvalvular Atrial Fibrillation

Keisuke Minami¹, Masaki Izumo¹, Seisyou Kou¹, Kihei Yoneyama¹, Nozomi Kotoku¹, Takafumi Machida¹, Shingo Kuwata¹, Ryo Kamijima¹, Kengo Suzuki¹, Eiji Ohtaki², Sachihiko Nobuoka¹, Yoshihiro J. Akashi¹. ¹St. Marianna University School of Medicine Hospital, Kawasaki-city, Japan; ²Ohtaki Hearts Clinic, Tokyo, Japan

Author Disclosures: None

P2-211

Transesophageal Echocardiographic Examination in the Evaluation of Source of Embolus: Does it Change Clinical Management?

Supria K. Batra, Regina Miele, Natesa G. Pandian, Ayan R. Patel. Tufts Medical Center, Boston, MA

Author Disclosures: None

P2-212

Resting Left Atrial Emptying Rate Predicts Exercise Capacity (METS) in Healthy Subjects: The Health eHeart Study

Rakesh K. Mishra, Arjun Sinha, Qizhi Fang, Dwight Bibby, Gregory Marcus, Carol Maguire, Kourtney Imburgia, Nelson B. Schiller. Division of Cardiology, University of California, San Francisco, CA

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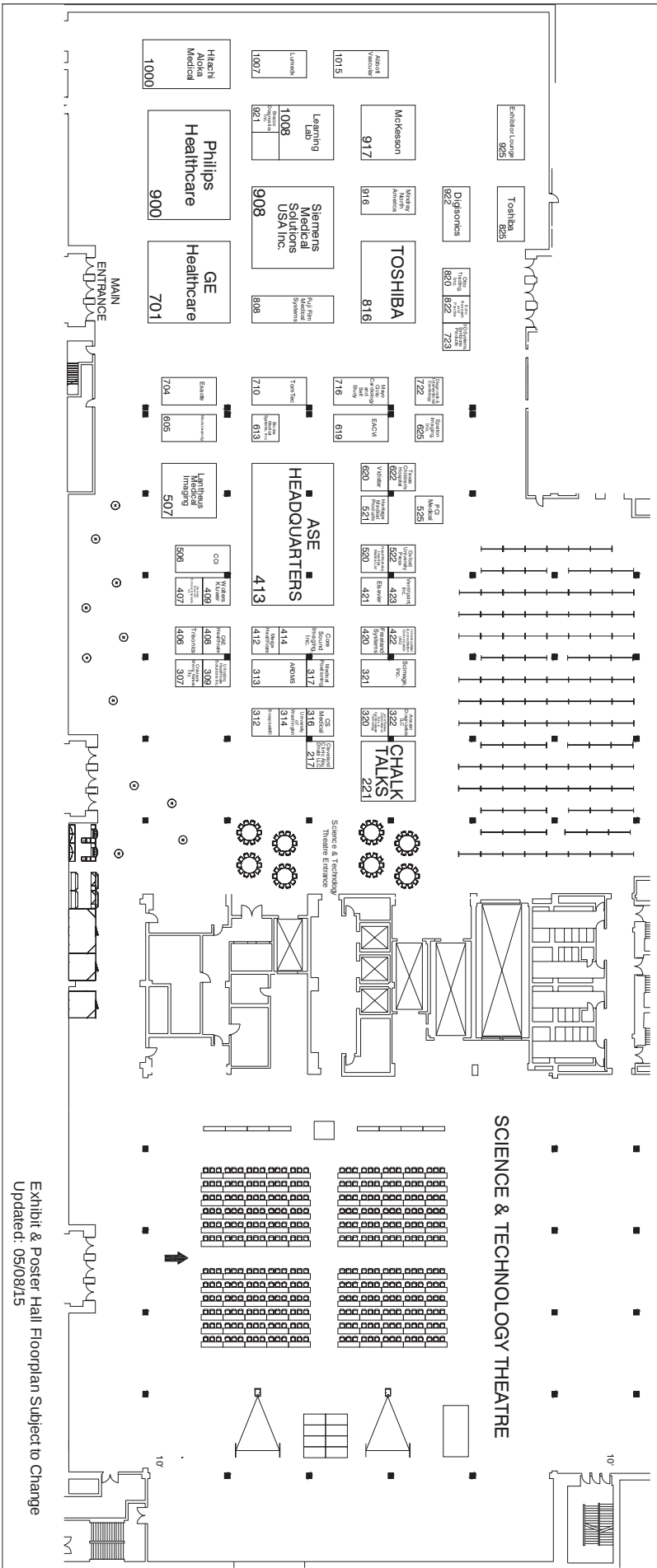


Exhibit & Poster Hall Floorplan Subject to Change
Updated: 05/08/15

EXHIBIT & POSTER HALL

EXHIBIT & POSTER HALL HOURS

SATURDAY, JUNE 13

President's Reception.....4:30 pm – 6:30 pm

SUNDAY, JUNE 14.....9:00 am – 4:00 pm

MONDAY, JUNE 15.....9:00 am – 4:00 pm

EXHIBIT & POSTER HALL BREAK SCHEDULE

SUNDAY, JUNE 14

Coffee Breaks.....9:30 am – 10:15 am
2:45 pm – 3:30 pm

Lunch Break.....11:45 am – 1:15 pm

MONDAY, JUNE 15

Coffee Breaks.....9:30 am – 10:15 am
2:45 pm – 3:30 pm

Lunch Break.....11:45 am – 1:15 pm

SCIENCE & TECHNOLOGY THEATRE SCHEDULE

SATURDAY, JUNE 13

Enhancing the Value of Echocardiography

Presented by Bracco Diagnostics Inc. ...11:30 am – 1:00 pm

SUNDAY, JUNE 14

Contrast Echo: See the Difference, Experience the Impact

Presented by Lantheus

Medical Imaging, Inc.11:45 am – 1:15 pm

MONDAY, JUNE 15

Using Echo Anatomical Intelligence to Help Meet
Standards in Today's Ecosystem

Presented by Philips Healthcare11:45 am – 1:15 pm

TUESDAY, JUNE 16

Innovations in Management of Patients with Mitral
Regurgitation with TMVR

Presented by Abbott Vascular11:30 am – 1:00 pm

WHERE INNOVATION AND SCIENCE MEET

ASE encourages you to visit the Exhibit & Poster Hall. The exchange of information and access to new concepts, technology, devices and research is a vital component of 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. 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 annual meeting. Spend time in the poster area and gain firsthand knowledge and insight from scientific investigators.

Don't miss daily poster sessions on the show floor. More detailed information can be found on page 63 of this program.

WHERE MEDICAL PROFESSIONALS MEET

Network with colleagues and friends from around the world 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. While you're here, grab a cup of coffee, lunch, or snack.

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As the largest organization representing the cardiovascular ultrasound community, ASE is a vibrant and progressive organization. Visit the ASE Headquarters booth #413 to find comprehensive information on all of our educational programs and products, membership opportunities, and advocacy efforts. In addition, don't miss the debut of exciting new products and services designed to help with your practice of cardiovascular ultrasound. ASE is available to help you find whatever it is you need. If you haven't logged into ASEUniversity or used Connect@ASE, come by for a tutorial. While you're there, be sure to pick up your complimentary copy of the updated ASE guidelines CD.

Don't forget to stop by Sunday, June 14, from 9:30 AM - 10:15 AM to meet editors Goldstein, Khandheria, Kronzon, Lang and Mor-Avi and have them sign your

copy of the ultimate echocardiography textbook, ASE's *Comprehensive Echocardiography*. The textbook will be for sale at the ASE Headquarters booth #413 in the Exhibit & Poster Hall and at the Product Sales booth on Level 3 throughout the conference.

ASE and Ke Labs have created an innovative imaging quality management software application designed to: 1) ensure quality and consistency of cardiac ultrasound image review, both quantitatively and qualitatively, and 2) inform and educate users on interesting cases, new techniques and other changes. It has been designed through the expert guidance of Harvey Feigenbaum, MD, FASE. The software will be made available to both individuals and institutions through an annual subscription software license. The software offers many benefits. It represents a hands-on, real-world training experience, without being tied to imaging devices. Attendees will be able to view the demonstrations in ASE Headquarters booth #413 in the Exhibit & Poster Hall.



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The ASE Education and Research 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 out into the field.** All contributions to the Foundation support the following initiatives:

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In 2014, you helped us raise over \$223,000 to fund initiatives, such as scholarships and humanitarian outreach events, not supported by ASE membership dues. Visit us at the ASE Foundation booth to learn about how your support will help make a world of difference for echo this year. Learn about past and future ASEF humanitarian events, receive your “I Donated!” sticker and ribbon, and learn about ways you can get involved with the Foundation in 2015! **Located on the 3rd floor of the Hynes Convention Center**, the booth will also have an electronics charging station that will fit a variety of devices.

ASEF’s booth is also the place where you can learn more about the fundraising events we’re hosting in Boston. From the Healing Hearts Scavenger Hunt and After-Party to our Annual Research Awards Gala, the Foundation has something for every conference attendee. Each ticket purchased to these events is considered a U.S. tax deductible donation and helps to advance the field of cardiovascular ultrasound. To learn more, visit www.asefoundation.org/events.

FOOD FUNCTIONS

ASE will provide continental breakfast in the Boylston Hallway, Level 3 from 6:30 am – 7:30 am daily. Morning and afternoon coffee breaks are available for registered attendees in the Exhibit & Poster Hall on Sunday, June 14 and Monday, June 15 and in the Boylston Hallway, Level 3 on Friday, June 12, Saturday, June 13, and Tuesday, June 16. Please refer to the Conference at a Glance on page 7 for the times of the daily morning, afternoon and lunch breaks.

ASE will provide lunch on a first come, first served basis (max. 350 participants) for attendees of the Science & Technology Theatre, located in the Exhibit & Poster Hall. See page 118 of this program for a detailed theatre schedule.

SPECIAL EXHIBIT & POSTER HALL EVENTS

ECHO BINGO

Join in the fun. Each attendee will receive a set of ECHO Bingo Cards in their Conference Bag at Registration. Visit the exhibitors in the Exhibit & Poster Hall with a new bingo card each day. The exhibiting company will stamp your card. Deposit your stamped card completed either by row, column or diagonally in the raffle bin labeled **‘ECHO BINGO’** located at the ASE Headquarter Booth. Play all three cards! The drawing will be held on Monday, June 15 in the Exhibit & Poster Hall during the afternoon break 2:45-3:30 pm.

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All attendees are invited to celebrate ASE 2015 at the President’s Reception, hosted by ASE President, Neil Weissman, MD, FASE. The President’s Reception takes place in the Exhibit & Poster Hall. This is your first opportunity to network with colleagues and friends while learning more about the newest equipment and services in the cardiovascular field. Complimentary hors d’oeuvres and cocktails will be available throughout the hall.

SCIENCE & TECHNOLOGY THEATRE SCHEDULE

SATURDAY, JUNE 13, 2015

11:30 AM – 1:00 PM

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11:45 AM – 1:15 PM

Contrast Echo: See the Difference, Experience the Impact
presented by Lantheus Medical Imaging, Inc.

Join expert faculty in an interactive panel discussion on contrast echocardiography followed by a moderated Q&A session.

MONDAY, JUNE 15, 2015

11:45 AM – 1:15 PM

Using Echo Anatomical Intelligence to Help Meet Standards in Today's Ecosystem
presented by Philips Healthcare

Guidelines provide the foundation for quality clinical practice. But you face challenges including a growing patient population and limited resources. Learn how innovative technologies and unique methodologies and tools are helping provide new opportunities for cost-effective, people-focused echocardiography.

TUESDAY, JUNE 16, 2015

11:30 AM – 1:00 PM

Emerging Transcatheter Mitral Valve Technologies: What is the Role of Echo?
presented by Abbott Vascular

Join renowned faculty in Echocardiography and Interventional Cardiology to learn about the latest advances in TMVR today and the critical role that echocardiography plays. Topics covered will include the important part the imaging expert plays in MR diagnosis, to patient selection, to procedural guidance.

**Lunch is provided by ASE and is included in all Scientific Sessions registration fees, but space and boxed lunches are first come, first served. These sessions are not part of the official ASE 26th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.*

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A FREE CONTINUING EDUCATION LUNCH SYMPOSIUM

Please join these renowned experts in echocardiography to learn about new practice-changing technologies, techniques, protocols, and applications for contrast-enhanced echocardiography.

Agenda

- Contrast to Help Improve Diagnostic Quality and Workflow Efficiencies
Sharon L. Mulvagh, MD, FACC, FAHA, FASE, FRCP(C)
Mayo Clinic, Rochester, Minnesota
- Optimizing the Echocardiographic Exam: A Review of the 2014 ASE Guidelines
Thomas R. Porter, MD, FACC, FASE
University of Nebraska Medical Center, Omaha, Nebraska
- Impact of Contrast Echocardiography On the Outcomes and Clinical Management Of Patients
Arthur J. Labovitz, MD, FACC, FASE
University of South Florida, Tampa, Florida
- Optimizing the Diagnostic Value of Echocardiography: Fellow's Case Presentations
Faculty Panel

Educational Objectives

After completing this activity, participants will be able to:

- Describe indications, applications and utility of CE echocardiography
- Review clinical trials demonstrating improved visualization of cardiac abnormalities that require real-time, dynamic imaging
- Discuss in which applications/patient types/syndromes should contrast be considered before the echocardiographic examination is deemed suboptimal
- Summarize the positive impact of contrast echocardiography on the clinical management of patients

This activity is not a part of the official ASE 26th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.

Approved by the Society of Diagnostic Medical Sonography (SDMS) for 1.5 SDMS CME Credit.

1.5 AMA PRA Category 1 Credit(s)[™] for physicians are pending.

Register at www.EnhancedEcho.com
Click on Live Meetings



Saturday, June 13, 2015

11:30 AM — 1:00 PM

Hynes Convention Center

Boston, MA

Science & Technology Theatre

Exhibit Hall D

Sponsored by:



This activity is supported by a educational grant from Bracco Diagnostics Inc.



Lantheus Medical Imaging presents
Contrast Echo: See the Difference, Experience the Impact

***Optimizing Clinical Use of
Contrast Ultrasound***

Jonathan Lindner, MD, FACC, FASE
Oregon Health & Science University, Portland, Oregon

***Operational Efficiency of
Echo Contrast Utilization***

Lissa Sugeng, MD, MPH, FACC, FASE
Yale School of Medicine, New Haven, Connecticut

***Echo Contrast Agent
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Rajesh Janardhanan, MD, MRCP, FACC, FASE
University of Arizona Health Network, Tucson, Arizona

Sunday, June 14, 2015

11:45 a.m. - 1:15 p.m.

Lunch provided · SDMS credit available

**Science and Technology Theatre, Level 2, Hall D
Hynes Convention Center
Boston, Massachusetts**

Join expert faculty in an interactive panel discussion on contrast echocardiography followed by a moderated Q&A session.

See the advantages contrast echo has over unenhanced echo in diagnostic outcomes, patient management, and cost effectiveness. In addition, experience practical insight into operational efficiencies of contrast utilization and recognize important considerations in choosing a contrast agent for echocardiography.

Register at www.lantheus.com/rsvp

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In accordance with the PhRMA Code on Interactions with Healthcare Professionals and individual state compliance, attendance at this educational program is limited to healthcare professionals. Accordingly, attendance by guests or spouses is not permitted.



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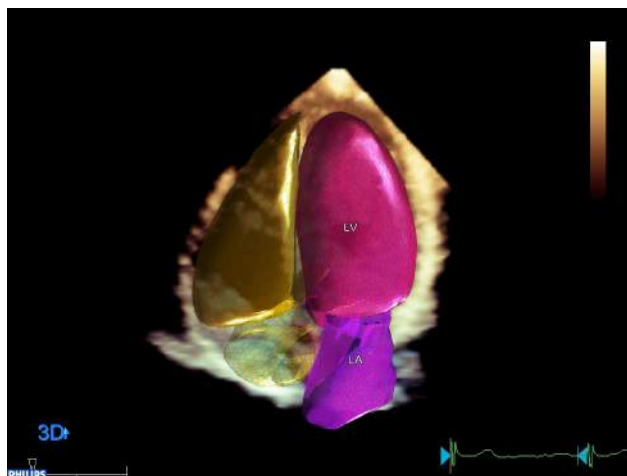
ASE '15

Join us for a Science & Technology Theatre Event

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Guidelines provide the foundation for quality clinical practice. But you face challenges including a growing patient population and limited resources. Learn how innovative technologies and unique methodologies and tools are helping provide new opportunities for cost-effective, people-focused echocardiography.

Science & Technology Theatre sessions are not part of the official ASE 26th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.



Monday, June 15
11:45 am - 1:15 pm
LOCATION: Exhibit & Poster Hall



VASCULAR

Join us at ASE 2015 EDUCATIONAL LUNCH SYMPOSIUM

Tuesday
JUNE 16

LUNCH:

11:30 am

PROGRAM:

12:00 - 1:00 pm

**Science & Technology
Theater**
(located inside exhibit hall)

Emerging Transcatheter Mitral Valve Technologies: *What is the Role of Echo?*

MODERATED BY:

Paul Grayburn, MD, *The Heart Hospital Baylor, Plano, TX*

FACULTY:

James Thomas, MD *Northwestern Memorial Hospital, Chicago, IL*

Scott Lim, MD, *University of Virginia, Charlottesville, VA*

This program is not part of the American Society of Echocardiography's 2015 Official Scientific Sessions Program Committee. This event is neither sponsored nor endorsed by the American Society of Echocardiography.

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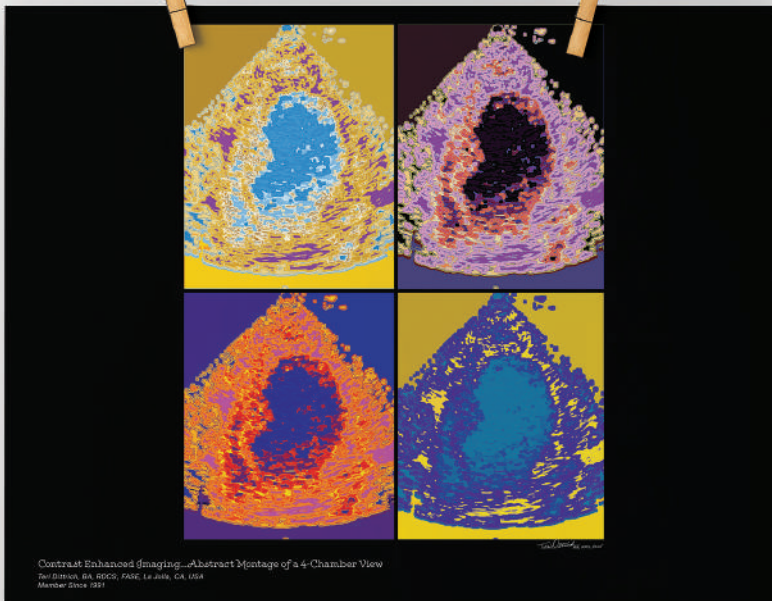
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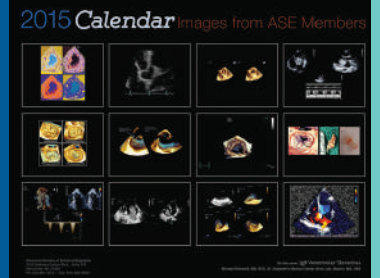
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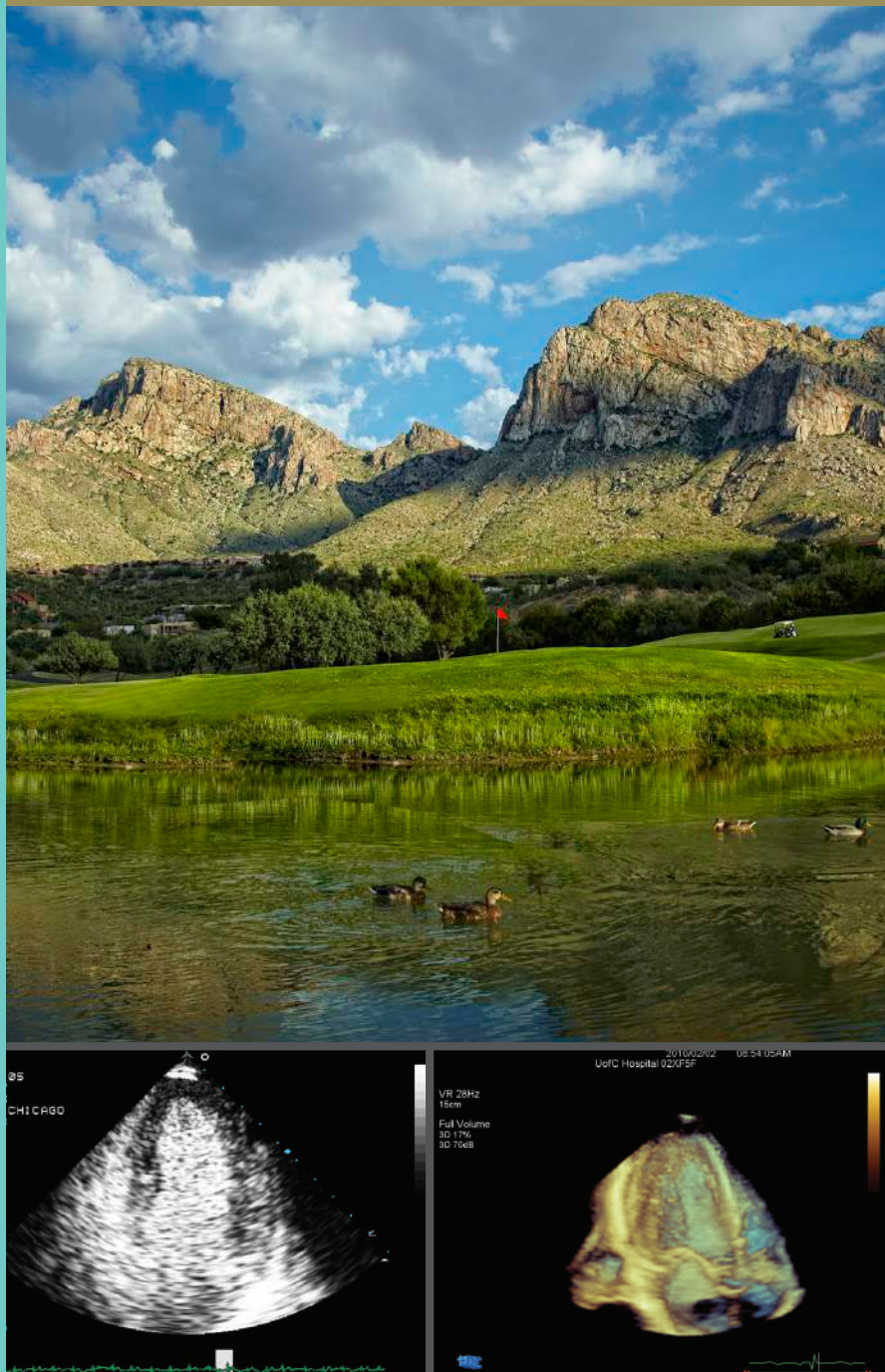
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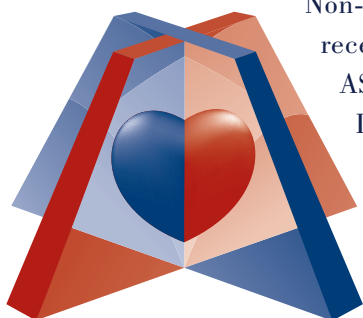
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FRIDAY, JUNE 12

PEDIATRIC AND CONGENITAL HEART DISEASE COUNCIL BOARD

6:00 PM – 8:00 PM
Suite 300

SATURDAY, JUNE 13

MEMBERSHIP STEERING COMMITTEE

10:00 AM – 11:00 AM
Room 202

ACCME COMMITTEE

10:30 AM - 11:30 AM
Room 203

NOMINATING COMMITTEE

11:30 AM – 12:30 PM
Room 204

ASEF TASK FORCE

1:00 PM - 2:30 PM
Room 203

INTERNATIONAL RELATIONS ADVISORY COMMITTEE

1:00 PM - 2:30 PM
Room 202

RESEARCH AWARDS TASKFORCE

3:00 PM - 4:00 PM
Room 209

JASE EDITORIAL BOARD

4:30 PM – 5:30 PM
Suite 300

SUNDAY, JUNE 14

COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY BOARD

10:00 AM - 11:30 AM
Room 202

IRT COMMITTEE MEETING

1:30 PM - 3:00 PM
Room 209

FASE ADVISORY

2:00 PM - 3:00 PM
Room 202

RESEARCH COMMITTEE

2:00 PM - 3:00 PM
Room 203

ADVOCACY COMMITTEE

2:00 PM - 3:30 PM
Room 204

MONDAY, JUNE 15

BYLAWS COMMITTEE

7:00 AM - 8:00 AM
Room 204

COUNCIL ON CARDIOVASCULAR SONOGRAPHY BOARD

8:00 AM - 9:30 AM
Room 203

EDUCATION COMMITTEE

10:00 AM - 11:30 AM
Room 209

COUNCIL ON VASCULAR ULTRASOUND BOARD

11:30 AM - 1:00 PM
Room 202

AWARDS COMMITTEE

11:45 am - 12:45 pm
Room 203

GUIDELINES AND STANDARDS COMMITTEE

11:45 AM - 1:15 PM
Room 204

INITIATIVE TO STANDARDIZE DEFORMATION IMAGING

1:00 PM - 3:00 PM
Room 203

TUESDAY, JUNE 16

FINANCE COMMITTEE

10:00 AM - 11:00 AM
Room 209

SCIENTIFIC SESSIONS PROGRAM COMMITTEE

11:30 AM - 1:00 PM
Room 202

PEDIATRIC ECHOCARDIOGRAPHY LAB DIRECTORS

11:45 AM - 1:00 PM
Room 203

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