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.

Visit Booth 507

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 DEFINITY²

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® Igackage insert]. N. Billerica, M&: Lantheus Medical Imaging, Inc., 2013. 4. Becher H, Burns PN. Handhook 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 Perfuturen (DEFINITY) in Patients with Suboptimal Baseline Left Ventricular Echocardiographic Images. Am J Cardiol, 2000;86:669-674 6. Shores 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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515835-0813

DEFINITY ¥86 (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 perflutrencontaining microsphere administration [See WARNINGS AND PRECAUTIONS]. Most serious reactions occur within 30 minutes of administration.

- •Assess all patients for the presence of any condition precludes DEFINITY® that administration [See CONTRAINDICATIONS1.
- •Always have resuscitation equipment and trained personnel readily available.

DESCRIPTION

DFFINITY® (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 horder

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 perflutrencontaining 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 bradycardia, supraventricular fibrillation, tachycardia, 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 intraarterial 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 intraarterial 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. **OTc 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 $\leq 0.5\%$ 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

- Allow the vial to warm to room temperature before starting the activation procedure.
- 2. Activate DEFINITY $^{\otimes}$ by shaking the vial for 45 seconds using a VIALMIX $^{\otimes}.$

Note: illustrations of this procedure are contained in the VIALMIX $^{\otimes}$ 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.

 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 postadministration 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 postadministration 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:

- 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].

Distributed By Lantheus Medical Imaging 331 Treble Cove Road N. Billerica, Massachusetts 01862 USA



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

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ECHO FLORIDA



October 11-13, 2015 Preconferences available on October 10 Disney's Yacht & Beach Club Resort Walt Disney World[®], FL

Course Director

Rebecca T. Hahn, MD, FASE Columbia University New York, NY

Course Co-Director

Michael H. Picard, MD, FASE Past President, ASE Massachusetts General Hospital Harvard Medical School Boston, MA

Learning Lab Director

Pamela R. Burgess, BS, RDCS, RDMS, FASE Wake Forest University Baptist Medical Center Winston Salem, NC

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BEATS



L DEAR FRIENDS & COLLEAGUES, MESSA

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 casebased learning, didactic lectures on new technology and clinical applications of echo, debates, and the "Threeof-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 Heeling 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

VELCOME



9 **ASE 2015**

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.



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, casebased 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, intraprocedural, 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 CreditsTM. 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 CreditsTM.

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 💶

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

This track will instruct practitioners on techniques of assessment and quantitation. There are diseasebased 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

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

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



Rebecca Hahn. MD. FASE Chairman



Richard Grimm. DO, FASE Abstract Chair



Juan Carlos Plana, MD, FASE International Representative



Jonathan Lindner, MD. FASE Past Chair



Soo Kim, MD, MPH, RPVI, FASE Vascular Representative



Geoffrey Rose, MD, FASE Abstract Co-Chair



Neil Weissman. MD, FASE President



Smadar Kort. MD, FASE Member at Large

Sunil Mankad.

Member at Large

MD, FASE



Marielle Scherrer-Crosbie. MD, PhD, FASE Local Liaison

Swaminathan,

Perioperative

Madhav

MD, FASE

David Adams, Co-Chair



RCS, RDCS, FASE Sonographer



Deb Agler, RCT, RDCS, FASE Sonographer Representative



Carrie Altman, MD, FASE Pediatric Representative



Federico Asch, MD, FASE Presidential Liaison



Jane Marshall, RDCS, FASE Local Liaison



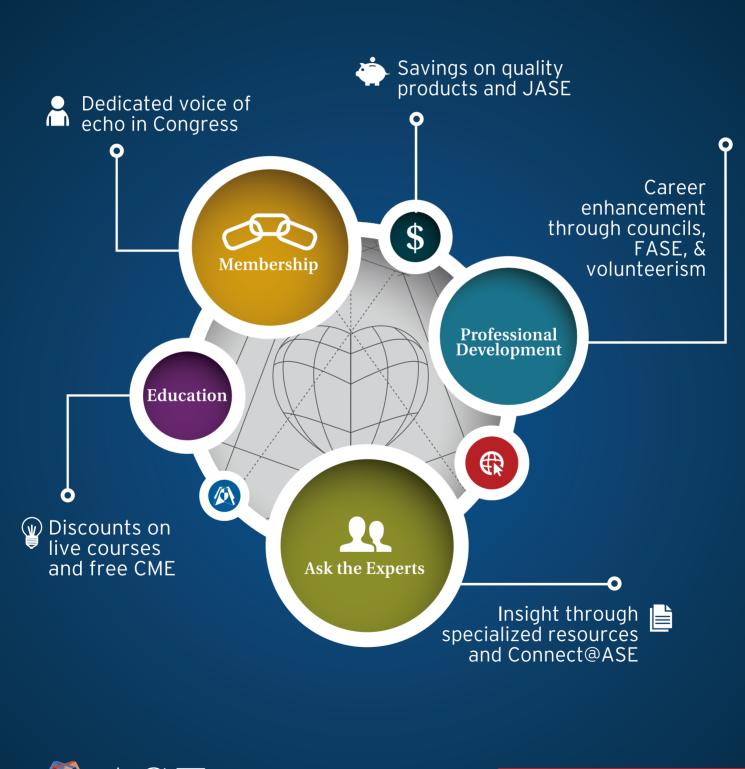
Philippe Pibarot, DVM, PhD, FASE Member at Large





Susan Wiegers, MD, FASE **President-Elect**

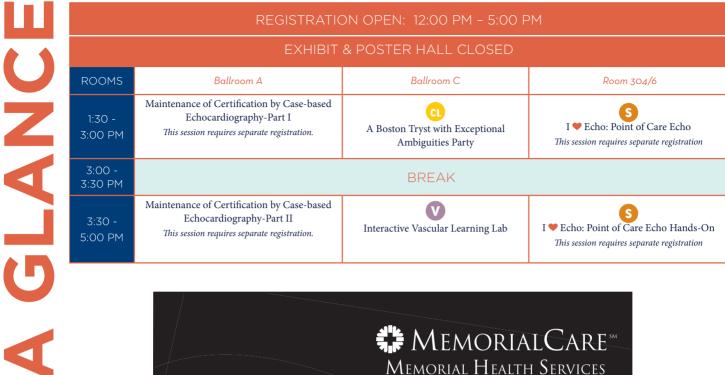
ASE continues to be your one-stop shop for ECHO EDUCATION, PRODUCTS, NETWORKING, NEWS AND CAREER ADVANCEMENT.



ASE American Society of Echocardiography

asecho.org

FRIDAY, JUNE 12^{TH}



Expect the Extraordinary

EOE

AT

CHEDULE

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)

Come live the good life in Southern California!! For information or to apply visit www.jobs.memorialcare.org

jobs.memorialcare.org

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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.





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 **Charter 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

FRIDAY, JUNE 12^{TH}

Your imaging colleagues are sharing their IAC experience.



What can IAC accreditation do for *your* facility?



Offering Accreditation Programs for:

VASCULAR TESTING ECHOCARDIOGRAPHY

NUCLEAR/PET

MRI

CT DENTAL CT

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Customer Service. Trained, clinical IAC staff are available to guide you through the process via phone, live chat or e-mail.

Application Fees. IAC provides a discount for facilities with multiple sites.

Experience Quality

Peer Review. A full review of your facility's safety policies and procedures, image quality and final reports is followed by a detailed summary and guidance document.

Quality Improvement Guidance. IAC assists and supports your facility's ongoing efforts to improve quality and safety measures.

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Experience Value

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Webinars. Presented by clinical staff and field experts, free IAC webinars offer guidance on accreditation and special interest topics, and award CE credit.

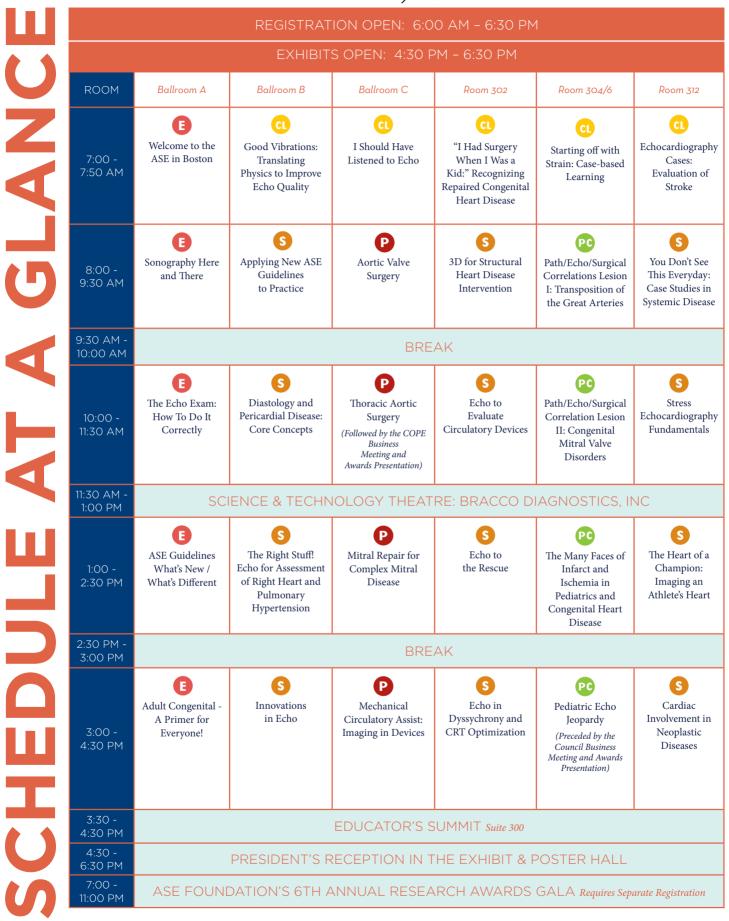
Sample Documents. IAC provides sample and guidance documents that facilities may download and customize to reflect their current practices.

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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



A. Jamil Tajik, MD, FASE Aurora, Wisconsin



Vera Rigolin, MD, FASE Chicago, Illinois



Neil Weissman, MD, FASE Washington, DC



Geoffrey Rose, MD, FASE Charlotte, North Carolina



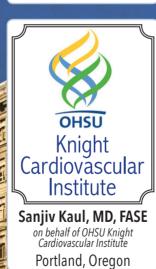
Susan Wiegers, MD, FASE Philadelphia, Pennsylvania



Raymond Stainback,

MD, FASE*

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





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



Revolutionizing Research by Raising Funding Support for Cardiovascular Investigators

www.asefoundation.org/gala

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

C 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

C. 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

CD "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. Wiegers

8:00 AM - 8:15 AM Multimodality Imaging in Patients Receiving Cancer Therapies J. Plana

SATURDAY, JUNE 13TH

26 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

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 Eosinophillic 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

28 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?

ASE 2015

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*

30 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 Partners (listed alphabetically)

> American Society of Echocardiography President: Dr. Neil J. Weissman

Asian-Pacific Association of Echocardiography (AAE) President: Dr. Jae K. Oh

> Canadian Society of Echocardiography President: Dr. Chi-Ming Chow

Chinese Society of Echocardiography President: Dr. Yun Zhang

Department of Cardiovascular Imaging of the Brazilian Society of Cardiology (DIC) President: Dr. Arnaldo Rabischoffsky

European Association of Cardiovascular Imaging (EACVI) President: Dr. Gilbert Habib

> Indian Academy of Echocardiography President: Dr. Nitin Burkule

Indonesian Society of Echocardiography President: Dr. Erwan Martanto

InterAmerican Association of Echocardiography (ECOSIAC) President: Dr. Rodrigo Hernández Vyhmeister

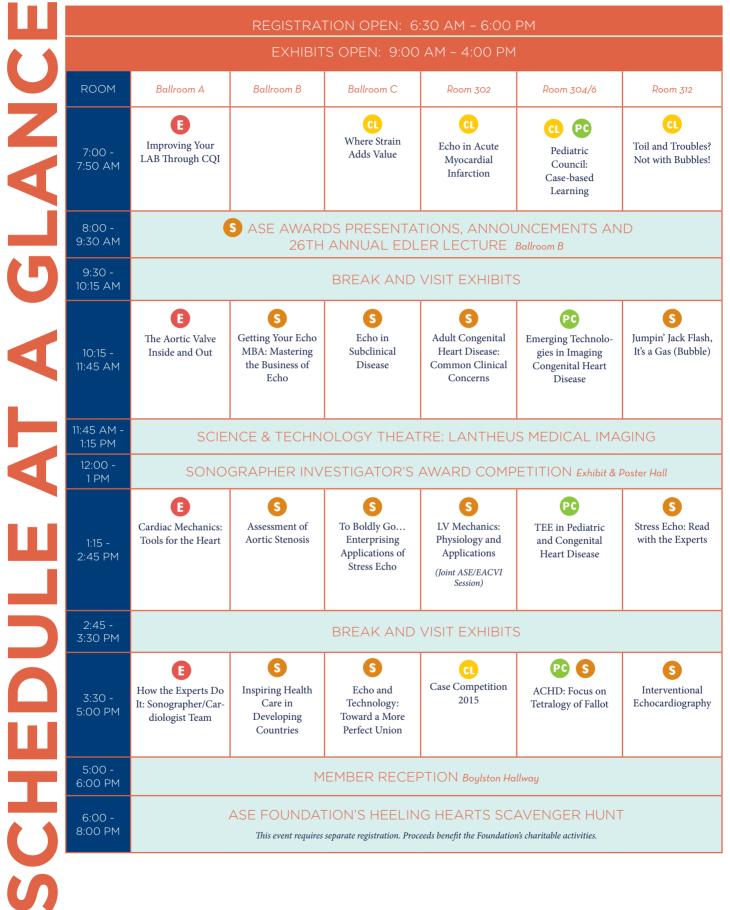
Japanese Society of Echocardiography President: Dr. Katsu Takenaka

Korean Society of Echocardiography Chairman: Dr. Joon-Han Shin



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

SUNDAY, JUNE 14^{TH}



SUNDAY

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



at the

2015 SCIENTIFIC SESSIONS



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.

while s last. • WHEN: 6 pm - 8 pm on Sunday, June 14; After-Party begins

WHERE:

reception.

10 pm

Starting Location: The

Restaurant & Bar

Hynes Convention Center Ending Location: Dillons

at 8 pm and concludes at

ASE Foundation | 2100 Gateway Centre Blvd., Ste. 310 | Morrisville, NC 27560

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. Wiegers

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 Ouestion and Answer

34 10:15 AM - 11:45 AM

NSE 2015

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. Wiegers*

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

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*

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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 Ouestion and Answer

3:30 PM - 5:00 PM

S Inspiring Health Care in Developing Countries - Ballroom B Chairs: S. Wiegers, 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

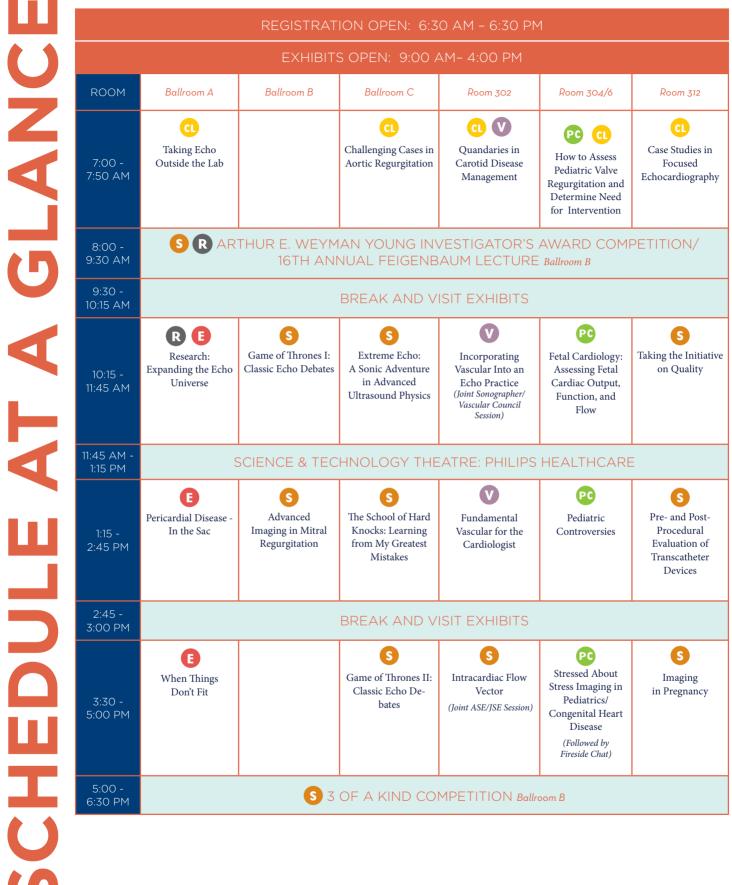
Assessing Septal Defects C. Bruce

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 Ouestion and Answer

MONDAY, JUNE 15^{TH}

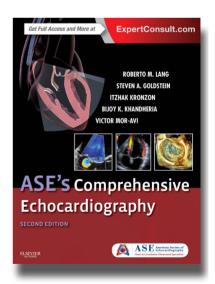


Your library isn't complete without this book.

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

C. 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

40 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. Szwast*

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

W 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 Biventrical Repair *H. Gardiner*

⁴² 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

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

ASE 2015

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

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TUESDAY, JUNE 16^{TH}



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7:00 AM - 7:50 AM

C. 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

C 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

CD 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. Wiegers, 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

48 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 AM India *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 Coarcation *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 PMFixing What's Broken: Amplatzers, Valve in Valve S. Minter2:00 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*

ASE 2015 05

B. Eidem
2:00 PM - 2:20 PM
The Ventricle Stands Alone? Understanding Ventricular

What Echo Parameters Would We Use to Assess RV Function

Independence *M. Friedberg* 2:20 PM - 2:30 PM Question and Answer

1:40 PM - 2:00 PM

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

ECHOCARDIOGRAPHY EDUCATION



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 provded 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



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

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TOPICS INCLUDE:

anterior lea

- > Valve defects
- > Atrial and ventricular septal defects

mobile mass

posterior leaflet

- > Patent foramen ovale
- > Patent ductus arteriosus
- > Coarctation of the aorta
- > Ebstein's anomaly
- > Pulmonary artery stenosis
- > Tetralogy of Fallot
- > Transposition of the great arteries

ASE American Society of Echocardiography

> And more!

SPECIAL EVENTS

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 handson 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 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

 $\frac{26^{\text{TH}} \text{ ANNUAL EDLER LECTURE}}{8:00 \text{ AM} - 9:30 \text{ AM}}$

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 locationHynes Convention CenterScavenger Hunt6:00 pm - 8:00 pmFinish Location &8:00 pm - 10:00 pmAfter-Party (Dillons Bar & Restaurant - 955 BoylstonStreet, 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. 58

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 Goias, Goiania, Goias, 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

- **ASE 2015** 9
- » 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 ULTRAECHO, 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

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- » Amanda Dillon, RDCS, Kingson Heart Clinic, Kinston, 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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ORIGINAL SCIENCE & CLINICAL CASES PRESENTATION SCHEDULE

SUNDAY, JUNE 14, 2015

CI 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

R 2015 SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION (SIA)

Presented: 12:00 pm - 1:00 pm

Exhibit & Poster Hall – Page 67

TOPICS

Vascular Disease	1
3D EchocardiographySIA-:	2
Ventricular Function /	
Myocardial MechanicsSIA-	3
Doppler / HemodynamicsSIA-	4

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

⁶⁴ MONDAY, JUNE 15, 2015

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 DiseaseP2-01 through P2-12
Outcomes /
Comparative EffectivenessP2-13 through P2-26
Valvular Heart DiseaseP2-27 through P2-59
Pediatric and Adult
Congenital Heart DiseaseP2-60 through P2-146
Intraprocedural Echocardiography (Operating Room and
Interventional Lab) / TEEP2-147 through P2-160
3D EchocardiographyP2-161 through P2-193
Echocardiography in SOE / Arrhythmias /
Atrial Function

TUESDAY, JUNE 16, 2015

R PE 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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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 EchocardiographyTM (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 Michnevitz, Merideth Weiner, Jane E. Marshall, Marielle Scherrer-Crosbie, Michael H. Picard. Massachusetts General Hospital, Boston, MA *Author Disclosures: None*

numor 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

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 Hirotani, Akiko Goda, Mitsuru Masaki, Shohei Fujiwara, Masataka Sugahara, Kumiko Masai, Aika Matsumoto, Kazuo Komamura, Masaaki Lee-Kawabata, Takeshi Tsujino, Tohru 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 Hoever⁷, 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

PEDIATRIC COUNCIL: CASE-BASED LEARNING (C1)

Presented: 7:00 am – 8:00 am

Room 304/6

TOPICS

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

Q CASE COMPETITION 2015 (C2)

Presented: 3:30 pm – 5:00 pm

Room 302

TOPICS

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

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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

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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

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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

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P1-08

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

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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'Universite de Montréal, Montreal, QC, Canada; ²Université de Montréal, Montreal, QC, Canada

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P1-10

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

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P1-11

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

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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

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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

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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

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

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

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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

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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

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Research, Hobart, Australia

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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 Hsich⁴, 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

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P1-22

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

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

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P1-23

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

Emilie Bollache¹, Nadjia Kachenoura¹, Roberto M. Lang², Victor Mor-Avi², Amit R. Patel². ¹INSERM, Paris, France; ²University of Chicago, Chicago, IL

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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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Author Disclosures: None

P1-25

Right Ventricular Involvement in Takotsubo Cardiomyopathy

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Author Disclosures: None

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P1-26

The Prevalence of Transient Apical Hypertrophy During Recovery Phase of Takotsubo Cardiomyopathy

Go Hashimoto, Makoto Suzuki, Hisao Yoshikawa, Takenori Otsuka, Kenji Makino, Yukiko Isekame, Raisuke Iijima, Hidehiko Hara, Mahito Noro, Masao Moroi, Masato Nakamura, Kaoru Sugi. Division of Cardiovascular Medicine, Toho University Ohashi Medical Center, Tokyo, Japan

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P1-27

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

Aparna Kulkarni¹, Yonathan Haroonian¹, Minh Nguyen¹, Fredrick Kaskel¹, Leo Lopez², Joseph Mahgerefteh¹. ¹Albert Einstein College of Medicine, Bronx, NY; ²Miami Children's Hospital, Miami, FL

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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

Sachie Shigemitsu¹, Ken Takahashi¹, Kotoko Matsui¹, Maki Kobayashi¹, Mariko Yamada¹, Noboru Tanaka¹, Katsumi Akimoto¹, Masahiko Kishiro¹, Sachi Sakaguchi¹, Junya Fujimura¹, Keiichi Itatani², Kagami Miyaji², Toshiaki Shimizu¹. ¹Juntendo University Faculty of Medicine, Department of Pediatrics, Tokyo, Japan; ²Kitasato University School of Medicine, Department of Hemodynamic Analysis, Kanagawa, Japan

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P1-29

A Comprehensive Echocardiogram Study in Elher Danlos Syndrome

Chandralekha Ashangari, Amer Suleman, Asheki Brown. The Heartbeat Clinic, McKinney, TX

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

Kershaw V. Patel¹, Gillian Murtagh¹, Luke Laffin¹, Catherine A. Bonham¹, Amit V. Patel¹, Zoe Yu¹, Karima Addetia¹, John

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P1-32

Different Characteristics of Left Ventricular Mechanics between Young and Late Onset Apical Hypertrophic Cardiomyopathy

Hyemoon Chung¹, Geu-Ru Hong¹, Jung-Woo Son², Jae Hyuk Choi³, In-Jeong Cho¹, Chi Young Shim¹, Hyuk-Jae Chang¹, Jong-Won Ha¹, Namsik Chung¹. ¹Yonsei University College of Medicine, Seoul, Republic of Korea; ²Hallym University College of Medicine, Chuncheon, Republic of Korea; ³Hallym University College of Medicine, Seoul, Republic of Korea

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P1-33

High Risk for Impending Death in Patients with Pericardial Effusion and Pulmonary Hypertension

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P1-34

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

Gregory M. Scalia¹, Jonathon M. Hunter², Isabel G. Scalia¹, David Wong³, Benjamin T. Fitzgerald¹, Darryl J. Burstow², Andrea Z. Riha⁴, David G. Platts². ¹HeartCare Partners, Auchenflower, Australia; ²The Prince Charles Hospital, Chermside, Australia; ³Wesley Medical Imaging, Auchenflower, Australia; ⁴The Wesley Hospital, Auchenflower, Australia

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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

Madhu Sharma¹, Daphne T. Hsu¹, Deepa Manwani², Moonseong Heo³, Sarika Kalantre¹. ¹Department of Pediatric Cardiology, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY; ²Department of Pediatric Hematology-Oncology, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY; ³Department of Epidemiology, Albert Einstein College of Medicine, Bronx, NY

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P1-36

Early Diastolic Mitral Annular Velocities Improve Following Medical Therapy of Transient Constrictive Pericarditis: Annulus Reversus is Reversed Ayman I. Ayache, Paul Cremer, Saqer Alkharabsheh, Balaji Tamarappoo, Allan L. Klein. Cleveland Clinic, Cleveland, OH Author Disclosures: None

P1-37

Effect of Pericardial Calcification on Biventricular Mechanics in Constrictive Pericarditis

Ayman I. Ayache, Hussain A. Isma'eel, Alpana Senapti, Paul Cremer, Saqer Alkharabsheh, Balaji Tamarappoo, Allan L. Klein. Cleveland Clinic, Cleveland, OH

Author Disclosures: None

P1-38

Determinants of Hypertensive Response During Supine Bicycle Exercise: Gender Difference

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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P1-39

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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P1-41

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 Cardiotoxity in Childhood Cancer Survivors after Anthracycline Therapy Nobutaka Noto, Hirotsugu Okuma, Hiroshi Kamiyama, Hiroshi Yagasaki, Shori Takahashi. Nihon University, Tokyo, Japan

Author Disclosures: None

P1-43

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

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P1-44

Left Atrial Function in Adult Overweight Patients

Carlos A. Podesta, Julio G. Peguero, Ivan A. Arenas, Omar Issa, Juan Carlos Brenes. Mount Sinai Medical Center, Miami Beach, FL

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P1-45

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

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P1-46

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

Kana Fujikura¹, Daniel M. Spevack¹, Mario J. Garcia¹, Urich P. Jordi¹, Keiichi Itatani². ¹Montefiore Medical Center, Bronx, NY; ²Kitasato University School of Medicine, Sagamihara, Japan

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P1-47

Adverse Cardiac Events and Grade 1 Diastolic Dysfunction

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P1-48

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

Yoshiki Shiina¹, Tomoko Ishizu², Hideki Nakajima¹, Noriko Iida¹, Fumiko Sakamaki¹, Takashi Kamimaki¹, Masayoshi Yamamoto², Tomoko Ohtsuka-Machino², Yoshihiro Seo², Yasushi Kawakami², Kazutaka Aonuma². ¹Tsukuba University Hospital, Ibaraki, Japan; ²University of Tsukuba, Ibaraki, Japan

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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

Anuj Mediratta, Karima Addetia, Diego Medvedofsky, Victor Mor-Avi, Roberto M. Lang. University of Chicago, Chicago, IL

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P1-50

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

Sabha Bhatti, Evan Watts, Fahd Syed, Abdul Hakeem. UAMS, Little Rock, AR

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P1-51

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

Aline Iskandar, Samer Mowakeaa, Timothy Fitzgibbons, Dennis Tighe, Gerard Aurigemma. Umass Memorial Medical Center, Worcester, MA

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P1-52

Increased Prevalence of Left Ventricular Hypertrophy in Persons Living with HIV

Fawaz Alenezi, Lance Okeke, Prateeti Khazanie, Gerald Bloomfield, Alison Dunning, Paul Hofmann, Meredith Clement, Savati Shah, Susanna Naggie, Eric Velazquez. Duke University Medical Center, Durham, NC

Author Disclosures: None

P1-53

Determinants of Functional Tricuspid Regurgitation in Patients with Lone Atrial Fibrillation

Sung-Hee Shin, Jae-Hyung Park, Myung-Dong Lee, Sang-Don Park, Sung-Woo Kwon, Seong-Ill Woo, Dae-Hyeok Kim, Jun Kwan. Inha University Hospital, Incheon, Republic of Korea

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P1-54

Right Heart Involvement in Sarcoidosis Patients

Mita B. Patel, Gillian Murtagh, Catherine Bonham, Luke J. Laffin, Kyle Hogarth, Victor Mor-Avi, Roberto M. Lang, Amit R. Patel. University of Chicago, Chicago, IL

Author Disclosures: None

VENTRICULAR FUNCTION / MYOCARDIAL MECHANICS P1-55 THROUGH P1-118

P1-55 MODERATED POSTER

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

Alex P. Lee, Jing Ping Sun, Xiuxia Luo, Xiaoyan Wang, Zhiqing Qiao, Zhihua Zhang, Xing Sheng Yang. The Chinese University of Hong Kong, Hong Kong, China

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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

Chike C. Nwabuo¹, Yoshiaki Ohyama¹, Henrique T. Moriera¹, Bharath Ambale-Venkatesh¹, Ravi K. Sharma¹, Anderson C. Armstrong¹, Mohammed R. Ostovaneh¹, Beth Lewis², Kiang Liu³, Pamela Schreiner⁴, Kofo O. Ogunyankin³, Samuel S. Gidding⁵, Joao A.C. Lima¹. ¹Johns Hopkins University, Baltimore, MD; ²University of Alabama, Birmingham, AL; ³Northwestern University, Chicago, IL; ⁴University of Minnesota, Minneapolis, MN; ⁵Nemours Cardiac Center, A.I. duPont Hospital for Children, Wilmington, DE

Author Disclosures: None

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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Author Disclosures: None

P1-58 MODERATED POSTER

Right Ventricular Myocardial Reserve in Children after Arterial Switch Operation

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P1-59

Systolic and Diastolic Reserve in Children after Arterial Switch Operation

Barbara Cifra, Cameron Slorach, Mark K. Friedberg, Luc Mertens, Andreea Dragulescu. Hospital for Sick Children, Toronto, ON, Canada

A New Dynamic Cardiac Phantom Model for Research and Quality Control in Echocardiography

Francois Tournoux¹, Amir Hodzic¹, Damien Garcia¹, Daniel Posada¹, Paul Milliez², Fabien Labombarda², Alain Manrique², Guy Cloutier¹, Boris Chayer¹, Arnaud Pellissier², Eric Saloux². ¹Centre Hospitalier de l'Université de Montreal (CHUM), Montreal, QC, Canada; ²Centre Hospitalier de l'Université de Caen. Caen. France

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P1-61

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

Andrew W. Choi, Vistasp Daruwalla, Lauren Beussink-Nelson, Sanjiv J. Shah, Benjamin H. Freed. Northwestern University, Feinberg School of Medicine, Chicago, IL

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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

Preetham Kumar, Craig Reeder, Chie-Ju Chao, Tasneem Naqvi. Mayo Clinic, Phoenix, AZ

Author Disclosures: None

P1-64

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

Antonia Delgado-Montero, Bhupendar Tayal, Akiko Goda, David Schwartzman, Samir Saba, John Gorcsan. University of Pittsburgh, Pittsburgh, PA

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P1-65

Inheritance of Left Ventricular Deformation: The **BUDAPEST Twins Study**

Attila Kovacs¹, Andrea Molnar², Adam Domonkos Tarnoki³, David Laszlo Tarnoki³, Levente Littvay⁴, Astrid Apor¹, Tamas Horvath¹, Pal Maurovich-Horvat¹, Gyorgy Jermendy⁵, Bela Merkelv¹. ¹Semmelweis University Heart and Vascular Center, Budapest, Hungary; ²Military Hospital, Budapest, Hungary: ³Semmelweis University Department of Radiology and Oncotherapy, Budapest, Hungary; ⁴Central European University, Budapest, Hungary; ⁵Bajcsy-Zsilinszky Hospital, Budapest, Hungary

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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**

Upasana Jarori, Muhammad W. Choudhry, Shujuar Rehman, Harvey Feigenbaum, Stephen G. Sawada. Indiana University School of Medicine, Strategic Research Initiative, IU Healthcare, Indianapolis, IN

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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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P1-72

Left Atrial-ventricular Matching with Age

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P1-73

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

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P1-74

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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P1-78

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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P1-82

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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P1-83

Left Ventricular Remodeling in Young Black Athletes

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P1-84

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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P1-86

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

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P1-87

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

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P1-88

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

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P1-89

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

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P1-90

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

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P1-91

Assessment of Right Ventricular Systolic Performance Using Novel Automated Speckle Tracking of Tricuspid Annular Displacement in Comparison With Other Echocardiographic Methods Joseph Gnanaraj¹, Jeffrey C. Hill², Gilead I. Lancaster¹, Anita M. Kelsey², Craig McPherson¹, Stuart Zarich¹. ¹Bridgeport Hospital, Bridgeport, CT; ²Saint Francis Hospital and Medical Center, Hartford, CT

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P1-92

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

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P1-93

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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P1-94

Defining LV Mechanics With 4D Echocardiography

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P1-95

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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P1-101

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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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 Jin Shi, CZ Pan, DH Kong, DH Kong, HY Chen, Xianhong Shu. Zhongshan Hospital, Fudan University, Shanghai, China

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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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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-Whan Seong. Chungnam National University Hospital, Daejeon, Republic of Korea

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P1-120 MODERATED POSTER

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

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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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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

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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

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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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P1-132

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

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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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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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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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aunor Disclosures.

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 Yasuko Imai, Nobuhiro Tanaka, Nori Takahashi, Saiko Kurohane, Yasuyoshi Takei, Akira Yamashina. Tokyo Medical University, Tokyo, Japan

Author Disclosures: None

EMERGING USE OF ECHOCARDIOGRAPHY / POINT OF CARE ECHOCARDIOGRAPHY

P1-150 THROUGH P1-158

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)

P1-159 THROUGH P1-169

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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P1-165

Comparison of Correlation Methods in Right Heart Pressure Estimation Between Echocardiography and Catheterization

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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

Renuka Jain, Khawaja A. Ammar, Jayant Khitha, Bijoy Khandheria. Aurora Cardiovascular Services, Milwaukee, WI

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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

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

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P1-181

Isolated Aneurysms of the Ventricular Membranous Septum

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

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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

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P1-191

Native Tricuspid Valve Thrombus with Saddle **Pulmonary Emboli**

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P1-192

Echocardiographic Images of a Quadricuspid Valve

Melissa Lyle, Eric Fenstad, Garvan Kane. Mayo Clinic, Rochester, MN

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P1-193

An Unusual Diagnosis of Left Atrial Thrombus. Is **Transesophageal Echocardiography Enough?**

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D1-194

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 Endomyocadial Fibrosis and Chagas Disease Evaluated by Advanced Techniques

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P1-197

Post Myocardial Infarction Ventricular Septal Defect Closure Using Amplazter VSD Occluder Device

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P1-198

Pedicled Intraventricular Thrombus: Unusual Presentation in 7 Cases

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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

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P1-201

The Value of Echocardiography in Diagnosing Pulmonary Embolism: A Case Report

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P1-202

Acute Rejection in Heart Transplant

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P1-203

Combined Use of Cardiovascular Imaging and Angiography in Spontaneous Coronary Artery Dissection Patient

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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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P1-206

Revealing the Magnitude of an Extrinsic Mass Compressing the Left Atrium

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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 EchocardiographyP2-161 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 Enddiastolic 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 Dilation

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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

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Author Disclosures: None

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

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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

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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

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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

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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

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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 MODERATED POSTER

Measurement of Stroke Volume and Aortic Valve Area in Patients with Aortic Stenosis: A Comparison of Doppler-Echocardiography versus Cardiac Magnetic Resonance

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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 Postmitral 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 Zaher Fanari, Dimitrios Barmpouletos, Vivek K. Reddy, Chete Eze-Nliam, Sumaya Hammami, William S. Weintraub, Erik Marshall. Christiana Care Health System, Wilmington, DE

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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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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

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P2-48

Prognostic Value of Acute Ischemic Mitral Regurgitation Caused by First-onset Acute Myocardial Infarction

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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

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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

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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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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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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 Longterm 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

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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 P2-60 THROUGH P2-146

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 Transcatheter 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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Author Disclosures: None

P2-75

Variation in Intraoperative and Postoperative/Predischarge 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 100 Meghna D. Patel¹, Philip T. Levy¹, Timothy Sekarski¹, Aaron Hamvas², Gautam K. Singh¹. ¹Washington University in St. Louis, St. Louis, MO; ²Northwestern University Feinberg School of Medicine, Chicago, IL

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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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P2-86

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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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

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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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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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Author Disclosures: None

P2-98

Interobserver Variability of Systolic Myocardial Deformation Values Improves at Later Gestational Age in a Longitudinally Acquired Cohort of Fetuses

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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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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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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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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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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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Author Disclosures: None

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

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P2-116

Increased Prenatal Detection of Congenital Heart Disease through Improved Regional Referral Services and Education

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P2-117

Aortic Root Velocity Vector Imaging in Children and Young Adults With Marfan Syndrome

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Author Disclosures: None

P2-118

Efficacy of Chloral Hydrate vs. Pentobarbital in Oral Sedation for Transthoracic Echocardiography, A Retrospective Review

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Author Disclosures: None

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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Author Disclosures: None

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

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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Author Disclosures: None

P2-124

Abnormal Systolic Motion of the Mitral Valve in Adults with Tetralogy of Fallot

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Author Disclosures: None

P2-125

Comparison of Echocardiographic and Cardiac Magnetic Resonance Parameters of Ventricular Strain in Patients After the Fontan Operation

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Author Disclosures: None

P2-126

Evolutive Assessment of Myocardial Function in Pediatric Patients With Repaired Tetralogy of Fallot: Persistent Diastolic Dysfunction and Regional Variation in Ventricular Deformation Indexes

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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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Author Disclosures: None

P2-128

Longitudinal Echocardiographic Follow up for Right Ventricular Outflow Obstruction after Arterial Switch Benton Ng¹, Joseph Nellis², Dianne Atkins¹. ¹University of Iowa, Iowa City, IA; ²University of Iowa, Carver College of Medicine, Iowa City, IA

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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

Author Disclosures: None

P2-131

Left Ventricular Mass Quantification by Two Dimensional Echocardiography in the Pediatric Population: Correlation with Cardiac Magnetic Resonance Imaging

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Author Disclosures: None

P2-132

A Method for Quantitative Evaluation of Ventricular Septal Flattening in Relation to Right Ventricular Systolic Pressure

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P2-133

Diagnostic Characteristics and Clinical Outcomes for Children with Idiopathic Restrictive Cardiomyopathy

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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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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

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P2-148 MODERATED POSTER

Do Real-Time Three-Dimensional Transesophageal Echocardiographic Images Actually Reflect What We Directly Visualize?

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P2-149 MODERATED POSTER

Aortic Annulus Sizing Using a Novel Automated Method: Can Echo Select the Correct Valve Size?

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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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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

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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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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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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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Regional Mapping of Left Ventricular Hypertrophy Patterns: Insights from 3D Echocardiography

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4D-Speckle Tracking Echocardiographic Global and Area Strain Determination in Hypertrophic Cardiomyopathy

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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?

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P2-169

Semi-Automated Speckle Tracking: Is it Time to Replace Biplane Simpson's Method?

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P2-170

Measurement of Inter-Trigonal Distance by 3D Transesophageal Echocardiography for Prediction of Ring Size for Mitral Valve Repair

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P2-171

Improving on the Diagnostic Characteristics of Echocardiography for Predicting Pulmonary Hypertension

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P2-172

Assessment of Mitral Leaflet Stretch Phenomenon by Using Real-time Three-dimensional Echocardiography

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P2-173

Dynamic Three Dimensional Strain During Dobutamine Stress Echocardiography in Detection of Ischemia: Comparison with Two-Dimensional Strain

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P2-174

Added Value of Live 3D TEE During Procedures for Treatment of Fontan Patients

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P2-175

Effect of Percutaneous Mitral Valvuloplasty on Left Atrial Remodeling: Importance of being in Sinus Rhythm

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Impact of Percutaneous Mitral Valvuloplasty on Left Ventricular Function Assessed by 3D Echocardiography in Rheumatic Mitral Stenosis

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P2-177

Call for the Development of a Three-Dimensional Printing Algorithm Specific to Echocardiography: An Initial Study with an In Vitro Validation

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P2-178

Mitral Valve Area Quantification: Comparison of RT-3D-TEE Planimetry, Pressure Half-time and Mean Gradient

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P2-179

Three-dimensional Echocardiography-Based Assessment of Left Atrial Size and Deformation in Healthy Children

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P2-180

Prediction of Left Ventricular Filling Pressure by Three-dimensional Speckle-tracking Echocardiography in Patients With Coronary Artery Disease

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P2-181

Assessing of Left Ventricular Torsional Mechanics Using 2D and 3D Speckle Tracking Imaging during Pregnancy

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P2-182

Clinical Feasibility of a Novel Three-dimensional Speckle Tracking Imaging System Specialized for the Right Ventricle

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P2-183

Right Ventricular Structure and Function during Exercise in Healthy Subjects

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P2-184

Efficacy and Accuracy of Novel Automated Mitral Valve Quantification: Three-dimensional Transesophageal Echocardiographic Study

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P2-185

Impact of Left Atrial Dilation on Mitral Annulus Sphericity

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P2-186

Normative Study of Left Atrium Phasic Volumetric Changes by Three-Dimensional Echocardiography in 225 Healthy Volunteers

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P2-187

Comparison of Three-dimensional Echocardiography and Multidetector Computed Tomography in Sizing the 'd-shaped' Mitral Annulus

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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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Subclinical Impairment of Left Ventricular Function in Patients with End Stage Renal Failure Detected by Three-dimensional Speckle Tracking Echocardiography

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P2-190

Single-beat Full-volume Capture Real-Time Threedimensional Echocardiography Compared With Two-Dimensional Echocardiography

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P2-191

Comparison of Right Ventricular Volumes, Ejection Fraction, and Mechanical Indices Derived Automatically From 3D Speckle Tracking to Cardiac Magnetic Resonance Imaging

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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

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P2-193

Mechanisms of Aortic Regurgitation in Type A Thoracic Aortic Aneurysm and Dissection: Real-time 3D Transesophageal Echocardiography Observations

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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

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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

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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

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P2-197

Prevalence of Intrapulmonary Shunting by Contemporary Contrast Transthoracic Echocardiography: Implications for Diagnosis in Hepatopulmonary Syndrome and Etiology of Cryptogenic Stroke

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P2-198

Predictor of Reversible Tricuspid Regurgitation in Patients with Functional Severe Tricuspid Regurgitation and Atrial Fibrillation

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P2-199

Left Atrium in Dynamic Exercise: Quantitation of Flow Rate Changes by 4D Volume in Normal Subjects

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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

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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?

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Sex Differences in Left Atrial Strain and its Relationship to CHADS2 Score in Patients with Atrial Fibrillation

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Impact of Atrial Fibrillation on Tricuspid Annular Plane Systolic Excursion in Patients without Organic Cardiovascular Disease

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P2-204

Echocardiographic Predictors of Pulmonary Edema in Patients with Diastolic Dysfunction

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P2-205

The Association of Resting Right Atrial Size and Function with Exercise Capacity in a Healthy Population

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P2-206

The Left Atrial Ejection Force: A Marker of Left Atrial Involvement in Patients with Severe Aortic Stenosis

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Neither Left Atrial Appendage Emptying Flow Velocity nor Left Atrial Emptying Fraction, but Left Atrial Strain is Independently Associated with CHA2DS2-VASc Score

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Left Atrial Strain may Predict New Onset Atrial Fibrillation in Patients with Chronic Heart Failure with Preserved Ejection Fraction

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P2-209

Echocardiographic Findings in Patients with Cryptogenic Stroke: A Case-Control Study

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P2-210

Determinants and Prognostic Implication of Discordance between Left Atrial Diameter and Volume in Patients with Nonvalvular Atrial Fibrillation

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P2-211

Transesophageal Echocardiographic Examination in the Evaluation of Source of Embolus: Does it Change Clinical Management?

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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

Author Disclosures: N.B. Schiller – 1, 2 (Lantheus), 4 (GE Healthcare)

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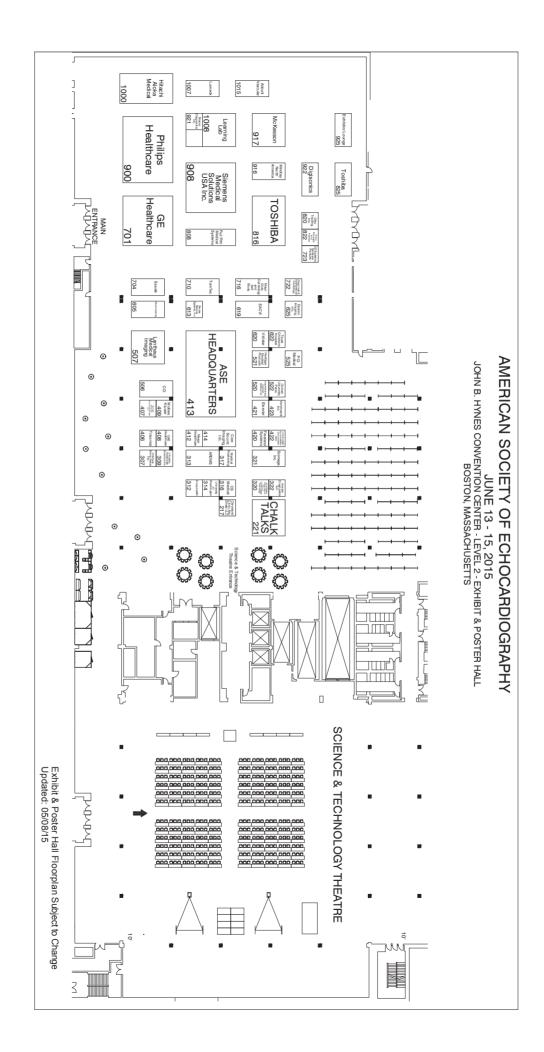
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EXHIBITS

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

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

116WHERE INNOVATION ANDImage: 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.

ASE HEADQUARTERS BOOTH #413

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.

ASE EDUCATION AND RESEARCH FOUNDATION

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:

- » Research Awards to preserve dedicated time for investigators;
- » Guideline-based projects to standardize patient care;
- » Student and Fellow travel grants and scholarships to support training and educational conference participation to help foster future cardiovascular professionals; and,
- » Humanitarian missions and educational outreach projects to serve populations in need.

When you donate, you will be recognized as a supporter of ASEF and play a vital role in the future of echocardiography. To learn more about the ASEF, make a donation, or inquire about volunteer opportunities, please visit www.asefoundation.org, email foundation@asecho.org, or visit the Foundation booth. Thank you for your support!

ASE EDUCATION AND RESEARCH FOUNDATION BOOTH

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 Heeling 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.

Prize Includes:

Complimentary Full Meeting Registration for ASE 2016 Annual Scientific Sessions

Hotel Accommodations at one of the designated hotels during ASE 2016 Annual Scientific Sessions

Must be present to win. Prize is Transferable – but must be utilized for the 2016 Scientific Sessions. All elements of the prize must be utilized by the same individual.

ECHO AROUND THE WORLD

Located at the ASE Headquarters booth #413, visit Echo Around the World and explore literature and information from echocardiography societies worldwide. Take a trip around the world of echocardiography; no passports required.

PRESIDENT'S RECEPTION

Saturday, June 13, 4:30 pm - 6:30 pm

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.

SATURDAY, JUNE 13, 2015

1:30 AM - 1:00 PM

Enhancing the Value of Echocardiography presented by Bracco Diagnostics Inc.

Please join these renowned experts in echocardiography to learn about new practicechanging technologies, techniques, protocols, and applications for contrast-enhanced echocardiography.

SUNDAY, JUNE 14, 2015

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.

ENHANCING THE VALUE OF ECHOCARDIOGRAPHY

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

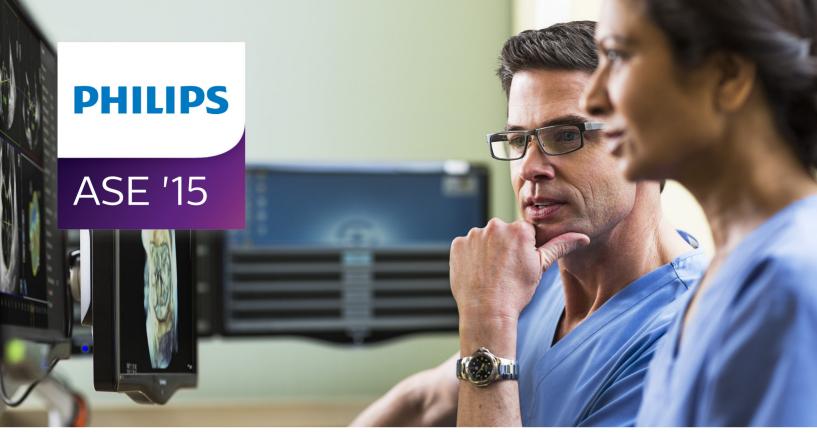


This activity is supported by a educational grant from Bracco Diagnostics Inc.



Lantheus Medical Imaging presents Contrast Echo: See the Difference, Experience the Impact

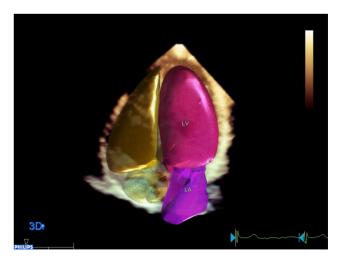
· · ·	zing Clinical Use of st Ultrasound	Jonathan Lindner, MD, FACC, FASE Oregon Health & Science University, Portland, Oregon		
Operational Efficiency of Echo Contrast Utilization Echo Contrast Agent of Choice		Lissa Sugeng, MD, MPH, FACC, FASE Yale School of Medicine, New Haven, Connecticut		
		Rajesh Janardhanan, MD, MRCP, FACC, FASE University of Arizona Health Network, Tuscon, Arizona		
		Sunday, June 14, 2015		
Visit us		11:45 a.m 1:15 p.m. nch provided · SDMS credit available		
at booth #507 Science a		and Technology Theatre, Level 2, Hall D Hynes Convention Center Boston, Massachusetts		
		ty in an interactive panel discussion on contrast echocardiogra- a moderated Q&A session.		
	outcomes, patien practical insight i	ages contrast echo has over unenhanced echo in diagnostic at management, and cost effectiveness. In addition, experience nto operational efficiencies of contrast utilization and recognize erations in choosing a contrast agent for echocardiography.		
	Reg	ister at www.lantheus.com/rsvp		
		s included in all Scientific Sessions registration fees, but space and boxed lunches are first-come, e not part of the official ASE 26th Annual Scientific Sessions, as planned by the Program prsed or affiliated with ASE.		
	In accordance with the PhRMA at this educational program is li	Code on Interactions with Healthcare Professionals and individual state compliance, attendance imited to healthcare professionals. Accordingly, attendance by guests or spouses is not permitted		



Join us for a Science & Technology Theatre Event

Using Echo Anatomical Intelligence to help meet standards in today's ecosystem

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

REDEFINING

INNOVATION



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.

Abbott Vascular, 3200 Lakeside Dr., Santa Clara, CA 95054 USA, Tel: 1.800.227.9902 www.AbbottVascular.com

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EXHIBITOR ASSIGNMENTS

EXHIBITORS LISTED ALPHABETICALLY

COMPANY	BOOTH
3D Systems Simbionix Products	723
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Trisonics, Inc.	406
UltraLinq Healthcare Solutions, Inc.	309
University of Washington	314
Ventripoint, Inc.	423
Vidistar, LLC	620
Wolters Kluwer Health	409

The Foundation is Grateful for Your Help!

Lantheus Medical Imaging, Inc. Booth #507

Siemens Medical Solutions USA, Inc. Booth #908

Thank you for your supporting the



and 2015 Heeling Hearts fundraiser.

And, for your additional support, thank you to NBE TomTec Booth #407 & Booth #710

ASEFoundation.org

ASE 2015 |

EXHIBITORS LISTED NUMERICALLY

COMPANY BOOTH Enovative Technologies, LLC 213 Cleveland Clinic Abu Dhabi 217Children's Mercy Kansas City 307 309 UltraLing Healthcare Solutions, Inc. 312 Flexible Informatics - EncaptureMD American Registry for Diagnostic Medical 313 Sonography (ARDMS) 314 University of Washington CS Medical, LLC 316 Medical Positioning, Inc. 317 Joint Review Committee on Education in 320 Cardiovascular Technology ScImage, Inc. 321 Anazen Diagnostics, LLC 322 406 Trisonics, Inc. National Board of Echocardiography, Inc. 407 **CAE** Healthcare 408 Wolters Kluwer Health 409 Merge Healthcare 412 413 American Society of Echocardiography (ASE) Core Sound Imaging, Inc. 414 420 Freeland Systems, LLC 421Elsevier Intersocietal Accreditation Commission (IAC) 422423 Ventripoint, Inc. 506 Cardiovascular Credentialing International (CCI) Lantheus Medical Imaging, Inc. 507 520 HeartWorks by Inventive Medical, Ltd. 521 Heritage Medical Products **Oxford University Press** 522 PCI Medical. Inc. 525 605 Medstreaming 613 **Biodex Medical Systems** Epsilon Imaging, Inc. 615 European Association of Cardiovascular 619 Imaging (EACVI)

Vidistar, LLC

620

Texas Children's Hospital	622
GE Healthcare	701
Esaote North America	704
TomTec Imaging Systems	710
Mayo Clinic Cardiovascular Self-Study	716
Diagnostic & Interventional Cardiology	722
3D Systems Simbionix Products	723
FUJIFILM Medical Systems U.S.A., Inc.	808
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Otto Trading, Inc.	820
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Philips Healthcare	900
Siemens Medical Solutions USA, Inc.	908
Mindray North America	916
McKesson	917
Bracco Diagnostics, Inc.	921
Digisonics	922
Hitachi Aloka Medical	1000
LUMEDX	1007
Abbott Vascular	1015

EXHIBITOR DESCRIPTIONS

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The American Registry for Diagnostic Medical Sonography® (ARDMS), founded in 1975, is an independent, notfor-profit organization that administers examinations and awards credentials in the areas of medical ultrasound. With nearly 90,000 certified professionals worldwide, ARDMS is considered the global standard of excellence in sonography. For more information, visit www.ARDMS.org.

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Core Sound Imaging, Inc. is built upon the principles of superior software development and uncompromised business ethics. Studycast and the suite of Core products are leading the way in SaaS medical imaging. Studycast represents a breakthrough in imaging workflow for cardiologists, radiologists and those who rely on their services.

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FUJIFILM Medical Systems U.S.A., Inc. (Booth # 808) will be showcasing Synapse Cardiovascular V 6.0 at ASE 2015. This version is a total revision of the Echocardiography reporting package and features a fully re-engineered user interface and streamlined measurement package, all built on Fujifilm's new Advanced Reporting platform.

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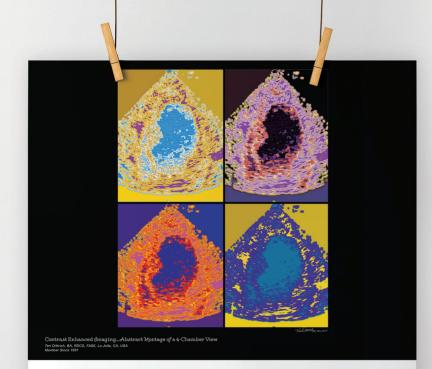
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Ayres, N	None		None
Badano, L	GE Healthcare (1, 2);	Defaria-Yeh, D	None
	TomTec (4); Siemens (4)	Del Nido, P	Coraux Technologies (3)
Bagchi, A	None	Delgado, V	None
Baggish, A	None	~	None
Barker, P	None	Dent, J	None
Bastiansen, P	None	Derumeaux, G	None
Beckman, J	AstraZeneca (2);	D'hooge, J.	None
Bristol Myers Sc	(2), 4); Novartis (2); Merck (2)	DiMaria, M.	None
5 I U I	None		None
	None		None
	None	· · · · · · · · · · · · · · · · · · ·	None
· · · · · · · · · · · · · · · · · · ·	None	0,	None
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e ·	None	·	None
0	None		None
· · ·	None	· · · · · · · · · · · · · · · · · · ·	None
	None		None
6	None	Dudzinski, D	
· · · · ·	None		None
,	None		None
Bruce, C			None
	None	Ensing, G	
e ·	None		None
,	None	Ernande, L.	
P P	None	Esposito, M.	
Burwash, I		Estep, J	
	None	-	None
J ,	None	· · ·	None
	None	Ferris, T.	1,0110
	None	Finley, A.	None
-	None	•	None
	None	1 /	None
	None		None
· ·	None		Medtronic (4)
	None		None
· ·	None		None
	None		Covidien Vascular Solutions (2)
	None		None
•	None	<i>,</i>	None
· · ·	None		None
	None	0	None
	None	, , , , , , , , , , , , , , , , , , , ,	None
	None		None
	None	,	None
		Galuerisi, M	

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Garcia, MN	one
Gardin, JN	one
Gardiner, HN	one
Garg, RN	one
Gerhard-Herman, MN	one
Geva, TMedtronic	(2)
Gill, EPhilips Medical Systems	(8)
Gillam, LEdwards Lifesciences	(4);
Medtronic	(4)
Gillebert, TN	one
Glas, KN	one
Goldstein, S. N	one
Gorcsan, JToshiba (4); Biotronik (4); Medtronic	(4)
Gowani, SN	one
Grayburn, PN	one
	one
Grogan, MPfizer (4); Alnylam (4); Prothena	(2)
Gutierrez-Fajardo, PN	one
Ha, JN	one
Habib, GN	one
Hagen-Ansert, SN	one
Hahn, RN	one
Haluska, BN	one
Hamburg, N.	
Hamid, NN	one
Harrild, DN	one
Harris, KN	one
Heinle, SN	one
Heitner, SN	one
Hennemann, SN	one
	one
Hoffmann, USiemens Healthcare	
HeartFlow Inc (4); RSNA	· /
	one
	one
	one
	one
Hoyler, J.	
	one
5/	one
	one
	one
· · ·	one
Itatani, KHitachi Aloka Medical	· /
	one
	one
Johri, AN	one

Jone, P.	None
	None
	None
	None
Katz, W.	None
	None
	None
	Edwards Lifesciences (2)
-	None
	None
	Philips Ultrasound (2)
Kim, Y	None
Kimberly, H	None
King, M	None
	None
-	None
Klarich, K	None
	None
	None
	None
Kolias, T	
Kort, S.	None
	Edwards Lifesciences (8);
-	Medtronic (8)
Kovalchin, J	None
Kramer, C	None
	None
Kronzon, I	None
Kruse, E	
Kung, G	None
Kutty, S	None
Kwan, G	None
	None
Lai, W	None
Lancellotti, P	None
Lane, C	None
Lang, R.	
Lara, D	None
Larti, F	
	Lantheus Medical Imaging (1)
	None
Levine, R.	
· · · · · · · · · · · · · · · · · · ·	None
	None
	None
	GE Healthcare (4)
	None
	None
1 /	

Little, S.	None	Nambi, V.	
	None	Nanda, N.	None
	None	· · ·	None
· ·	None	-	None
Lu, J	None	Natarajan, S	None
	None	-	None
Mackensen, G	None	Nelson, B	None
Magne, J	None		None
Mahmood, F	None	Nihoyannopoulo	os, PNone
Main, M	None	·	None
Mangion, J	None	Odabashian, J	ABC Education (8)
	None	O'Gara, P	None
	None	Oh, J	None
Marcus, R	None	O'Leary, P	None
Marek, J	None	Orsinelli, D	None
Marshall, J	None	Palma, R	None
Martin, D	None	Pandian, N	None
Marwick, T	None	Parisi, A	None
	None	Park, J	None
Maskatia, S	None	Park, M	None
McCullough, D	None		None
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McMahon, C	None	Pearlman, A	None
Meece, R	Philips Healthcare	Pedrizzetti, G	None
	(Speaker/ Speaker's Bureau)	Pellett, A	None
Melniker, L	None	Pellikka, P	None
Mercer- Rosa, L	None	Perese, S	None
Mertens, L	None	Pérez, J	Biomedical Systems (2)
Michelena, H	None	Peters, P	None
	None		None
	None		None
	None	_	None
· · · · · · · · · · · · · · · · · · ·	None		None
	None		None
	None		None
· · ·	Davies Publishing (6)	Plana, J.	
	None	·	None
	Edwards Lifesciences (1);		None
	os Medical Systems (1); GE Medical (1)	1	None
	None	-	None
,	None		GE (3)
	None	Porter, T	Bracco (1); Astellas Pharma (4);
/ -	None		Lantheus (4); GE Global (8); Philips (8)
	GE (2); Bracco (2); Lantheus (4);		None
	las (4); Hitachi Aloka Medical, Ltd. (4)	,	None
0	None		None
Nakatani, S	None	Quiñones, M	None

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E-echocardiography.com (8	Shernan, S	None	Quiroz, R
Philips Healthcare Inc. (8			Raabia, A.
Non	Shillcutt, S	None	Rabischoffsky, A
Non	Shin, J		Radigan, K
Philips (1	Shiota, T	Zonare Medical Systems (2)	Raio, C
Non	Shirali, G		Rakowski, H.
Edwards Lifesciences (8	Shook, D	None	Rassi, D
St. Jude (8); Sorin (8		None	Rehfeldt, K
Non	Sicari, R		Rempell, J
Non	Silversides, C	None	Restrepo, P
Non			Rigolin, V
Non		None	Rivero, J
Non		Philips Ultrasound (1)	
Non		None	Roberts, B
Non		None	Roberts, M
Non	Slesnick, T	None	Rodriguez, L
Non	Smiseth, O		Roman, M
Grifols (2, 4		None	Romero, S
GE Healthcare (4); Biotronik (2			Ronderos, R
	Solomon, S.	None	Rong, L
Non	Song, J		Rose, G
Non	Soriano, B	None	Rosen, S
Non			Rubenson, D
Non	Spencer, K		Rudski, L
Bayer (2); Daiichi Sankyo (2	Sprynger, M	None	Ryan, T
Pfizer (2); Boehringer Ingelheim (2		None	Rychik, J
Philips Healthcare (2		None	Sable, C
Non	Srivastava, S	None	Samad, Z
Non	Stainback, R	None	Sanchez, A
Non	Steflik, D	None	Sanders, S
Non	Stewart, W	None	Sarano, M
Non	Stone, M	None	Saric, M
Non	Strachinaru, M	None	Sawada, S
Non		None	Scheller McLaughlin, E
Non	Sundt, T	None	Scherrer-Crosbie, M
Non	Swaminathan, M	None	Schiller, N
Non		None	Schwarz, K
Non	Тасу, Т	None	Sears-Rogan, P
Non			Sebag, I
Non	Tatum, G		Seed, M
Non		None	Sengupta, P
Non	Tavares, B	None	Sengupta, S
Non		Bracco (1)	
Non	Taylor, B	None	Seward, J
Non		None	Shah, S
Non		None	Shamoun, F
Non			Shanewise, J

Thomas, J	None
Thomenius, K	None
Topilsky, Y	None
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Waggoner, A	None
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Walling, S	Lantheus (1)
Wang, Z	None
Warmsbecker, J	
Wasserman, M.	None
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Zoghbi, W	None

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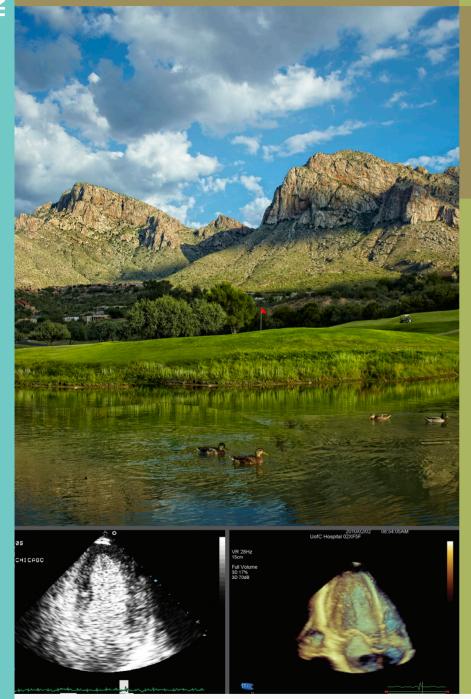
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PEDIATRIC AND CONGENITAL HEART DISEASE COUNCIL BOARD

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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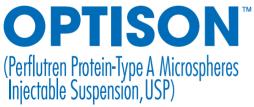
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