

AMERICAN SOCIETY OF ECHOCARDIOGRAPHY

Silver Anniversary

25TH ANNUAL
SCIENTIFIC SESSIONS

OREGON CONVENTION CENTER • PORTLAND, OR
FINAL PROGRAM

ECHOCARDIOGRAPHY: AT THE CUTTING EDGE OF SCIENCE AND MEDICINE

SESSIONS
FRI, JUNE 20 *to* TUE, JUNE 24

EXHIBITS
SAT, JUNE 21 *to* MON, JUNE 23

ASESCIENTIFICSESSIONS.ORG



Congratulations!

25th Annual
ASE Scientific Sessions

Silver Anniversary

*Across a variety of patient
types with suboptimal echoes
and multiple clinical settings...*



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for illustrative purposes only.



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Booth 613**

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or visit www.definityimaging.com

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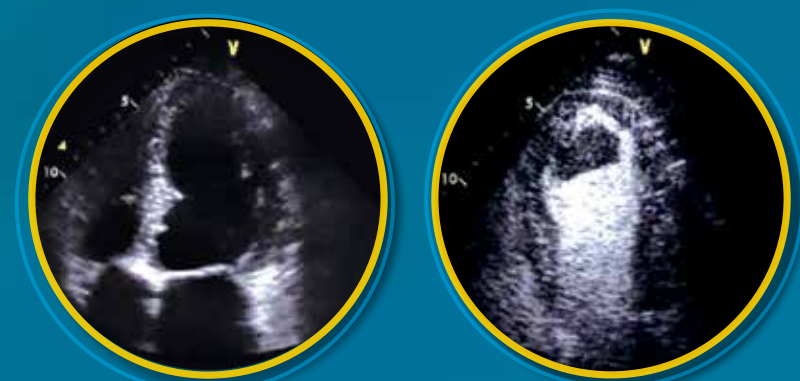
DEFINITY
VIAL
FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

A DEFINITY® echo— Giving You a Diagnostic Advantage in Suboptimal Echoes for Improved Patient Management^{1,2}

In a study by Kurt et al. DEFINITY®...

- Significantly increases the percentage of evaluable segments, indicating a consistent diagnostic advantage¹
- Enhances the quality of suboptimal echoes, which may result in more accurate and efficient diagnosis¹
- Results in important alterations in medical management and avoidance of additional diagnostic procedures¹

DEFINITY® has a proven safety profile²⁻⁴ and
has been used in more than 4.6 million patients.⁵



Baseline Echo

DEFINITY® Echo

* Activated DEFINITY® (Perflutren Lipid Microsphere) Injectable Suspension.

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

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.

References: 1. Kurt M, Shaikh KA, Peterson L, et al. Impact of contrast echocardiography on evaluation of ventricular function and clinical management in a large prospective cohort. *J Am Coll Cardiol*. 2009;53(9):802-810. 2. Kitzman DW, Goldman ME, Gillam LD, Cohen JL, Aurigemma GP, Gottliener JS. Efficacy and safety of the novel ultrasound contrast agent perflutren (Definity) in patients with suboptimal baseline left ventricular echocardiographic images. *Am J Cardiol*. 2000;86(6):669-674. 3. Data on file, Lantheus Medical Imaging, Inc. 4. Nucifora G, Marsan NA, Siebelink H-M J, et al. Safety of contrast-enhanced echocardiography within 24 h after acute myocardial infarction. *Eur J Echocardiogr*. 2008;9(6):816-818. 5. ©2001-2013 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission.

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CONFERENCE AT A GLANCE

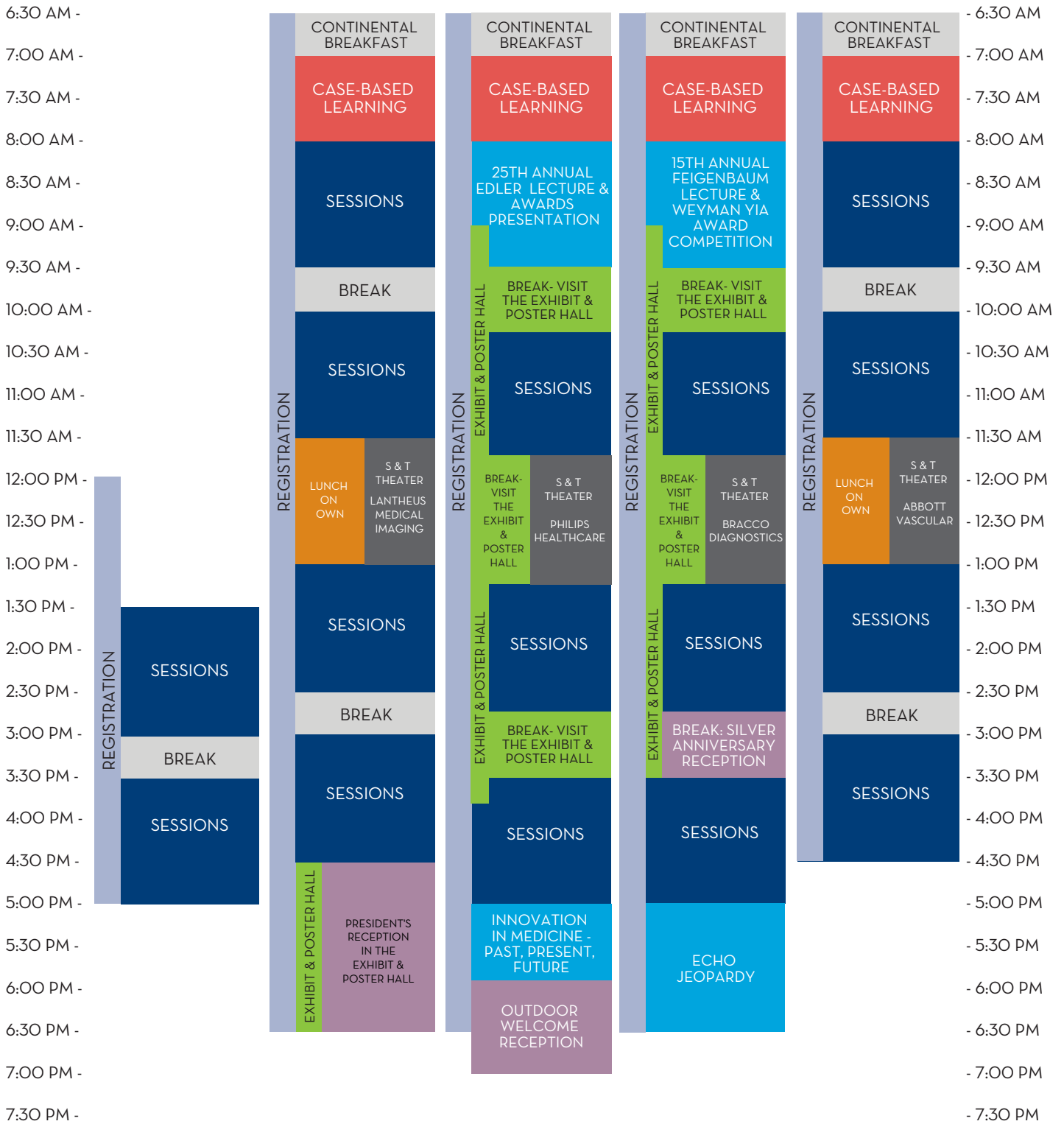
FRIDAY, JUNE 20

SATURDAY, JUNE 21

SUNDAY, JUNE 22

MONDAY, JUNE 23

TUESDAY, JUNE 24



From the Bottom of our Hearts

Ohio State's Heart and Vascular Center is proud to recognize Thomas Ryan, MD as the 2014 recipient of the ***ASE Meritorious Service Award***.

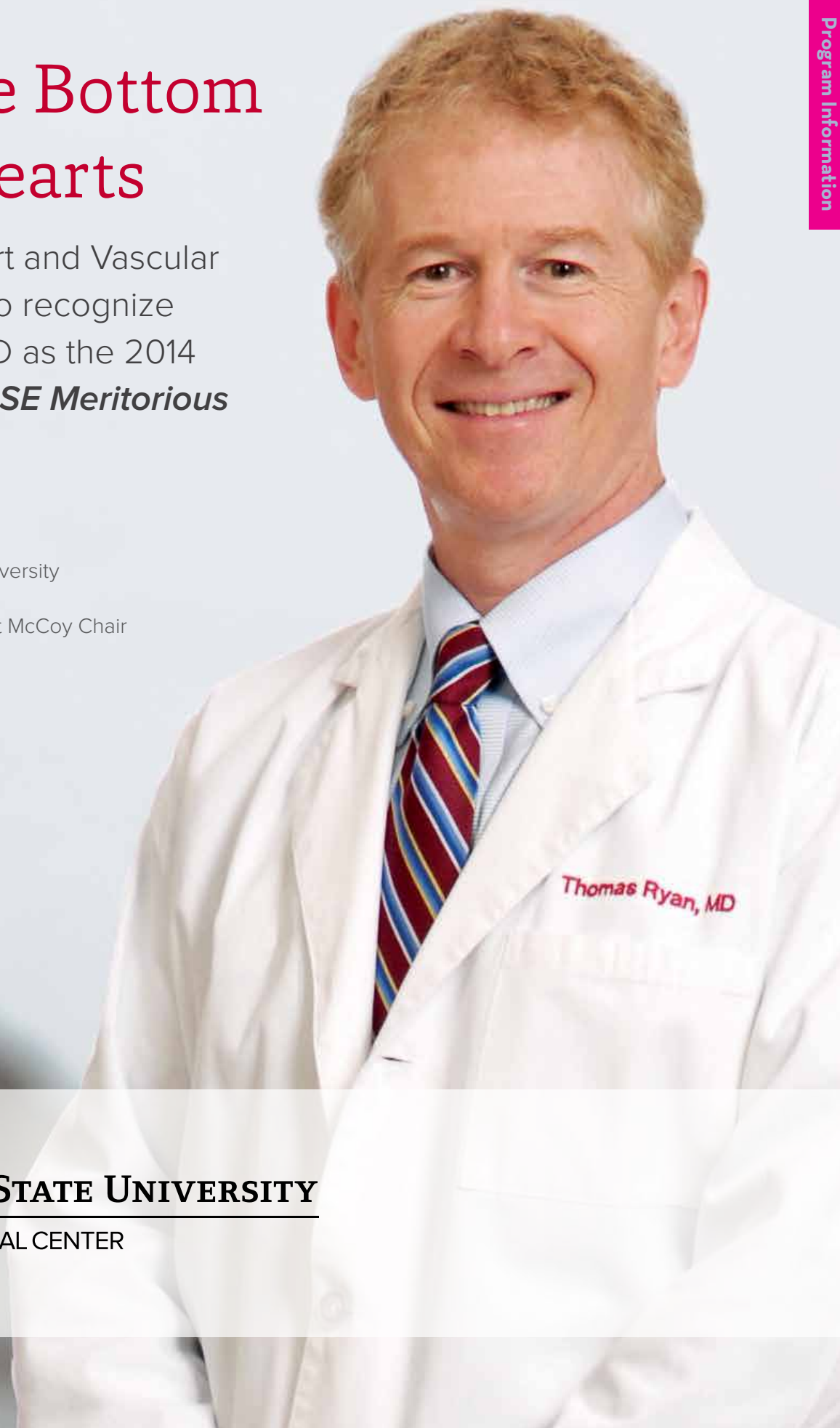
Thomas Ryan, MD

Director, The Ohio State University
Heart and Vascular Center
John G. And Jeanne Bonnet McCoy Chair
in Cardiovascular Medicine



THE OHIO STATE UNIVERSITY

WEXNER MEDICAL CENTER



WELCOME MESSAGE

DEAR FRIENDS AND COLLEAGUES

On behalf of the entire Scientific Session Planning Committee, I warmly welcome you to the American Society of Echocardiography Scientific Sessions. This is a proud moment for our society since it marks the 25th Anniversary of the ASE Scientific Sessions and we believe we have created a very exciting program that is worthy of this special milestone. I'm also thrilled to welcome you to my home of Portland; a city known for its natural beauty, abundance of outdoor activities, and the culinary, coffee and wine scene.

Our sessions have been planned to provide superb educational opportunities for everyone, regardless of expertise. The meeting will be a vital resource for health care providers who wish to not only maintain competence, but achieve excellence in cardiovascular imaging. Throughout this year's program we have tried to highlight how echocardiography is not only a cornerstone in daily practice, but also remains at the forefront of cardiovascular medicine and science.

The bulk of the meeting is organized into thematic tracks that vary not only in content, but also learning methods which include case-based teaching of the essentials of echocardiography, didactic lectures on new technology and clinical applications of echo, debates, and of course, the popular Echo Jeopardy sessions. You will also notice that we are providing "cutting edge" information on new technology and clinical integration of 4-D imaging, echo in heart failure (advanced myocardial mechanics and LV assist devices), assessment of valve disease, contrast echocardiography, and echo in oncology. We are also proud to provide educational opportunities for those in need of advancing their knowledge in specific areas that are becoming increasingly important for the general echocardiographer, such as adult congenital heart disease, strain imaging, and new clinical applications for stress echo in valve disease and cardiomyopathy. As in years past, we will also have an entire day session on intra-operative echo and use of echo in percutaneous valve interventions. There are also dedicated tracks for Pediatric specialists and for Vascular Imaging.

There are some very special sessions which I'd like to bring to your attention. On Sunday, Dr. Patricia Pellikka will give the annual Edler lecture on "Echocardiography in an Era of Multimodality Imaging." On Monday, Dr. Luc Mertens will provide the annual Feigenbaum lecture on "We are Our History: Cardiac Adaptations to Childhood Disease and Implications for Adult Life". We also asked experts in basic ultrasound physics to provide a leading edge "Extreme Echo" technology session on Saturday which will be kicked off by the Kalmanson lecture by Dr. Peter Burns on "Ultrasound Imaging: Taking Lessons from Nature". You will also not want to miss the Arthur E. Weyman Young Investigator's Award competition on Monday morning which features the very top science in echocardiography. We are also providing a Maintenance of Certification (MOC) session on Friday which should be an important draw for physicians in practice in light of the recently updated ABIM policy for MOC activities. Finally, we are providing new venues for attendees to interact with speakers and session chairs (other than in front of a microphone). You will be able to interact with luminaries at the "Chalk Talk" which take place in the Exhibit & Poster Hall. Additionally, you will be able to ask questions on specific lectures which will be directed to the appropriate faculty member by emailing questions@asecho.org.

I hope that you enjoy everything that Portland has to offer and take advantage of the tremendous educational opportunities available at the Silver Anniversary of the ASE Scientific Sessions.

On behalf of the ASE Scientific Session Program Committee and the Board of Directors, welcome to Portland!



Jonathan R. Lindner, MD, FASE
ASE 2014 Program Chair

REGISTRATION, BADGE & TICKET DISTRIBUTION

ATTENDEE REGISTRATION

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

ASE FACULTY AND ATTENDEE REGISTRATION COUNTER HOURS:

Friday, June 20	12:00 pm - 5:00 pm
Saturday, June 21.....	6:00 am - 6:30 pm
Sunday, June 22	6:30 am - 6:00 pm
Monday, June 23.....	6:30 am - 6:30 pm
Tuesday, June 24	6:30 am - 4:30 pm

SPEAKER READY ROOM

The Speaker Ready Room is located in A109, which can be found on Level One of the Convention Center. 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 20	12:00 pm - 5:00 pm
Saturday, June 21.....	6:00 am - 4:30 pm
Sunday, June 22	6:30 am - 4:30 pm
Monday, June 23.....	6:30 am - 4:30 pm
Tuesday, June 24	6:30 am - 3:00 pm

FASE LOUNGE

Saturday, June 21 - Monday, June 23: 9:00 am - 4:00 pm
Tuesday, June 24: 9:00 am - 2:00 pm

Room A105, Level One

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.

NAME BADGES

Admission to the ASE Exhibit & Poster Hall and Science & Technology Theater 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 Theater 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. 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 25th Annual Scientific Sessions.

FACILITY INFORMATION

The Oregon Convention Center's physical address is:

**777 NE MLK, JR. BLVD.
PORTLAND, OREGON, 97232**

This beautiful conference center is located across the river from downtown Portland and easily accessible by light rail. Attendees will disembark at the Convention Center MAX Station on the corner of NE Holladay & Martin Luther King Jr. Boulevard, opposite the entrance to the Oregon Convention Center. The rail stop allows easy, safe access to the facility. Using the MAX light rail is the preferred method of travel for conference attendees located at any of the designated hotels in downtown Portland.

PUBLIC TRANSPORTATION

ASE wants to make traveling around Portland easy by providing all registered attendees of ASE 2014 one Trimet MAX Light Rail Pass. Your MAX Light Rail pass will be valid through the dates of the conference, June 20-24, plus one extra day to allow you to travel back to the airport. MAX Light Rail is Portland's safe, efficient light-rail system that connects the metro area, Portland International Airport, and the downtown core. If you did not receive your pass at the ASE Registration Desk when receiving this program, please let ASE staff know and they will provide you with one. Visit www.travelportland.com/plan-your-trip for more Portland details.

Hotel Trimet Stops:

Embassy Suites Portland Downtown - Oak/SW 1st Ave

Hilton Portland and Executive Tower - Pioneer Courthouse Square

Portland Marriott City Center - Pioneer Courthouse Square

The Nines - Pioneer Courthouse Square

The Westin Portland - Pioneer Courthouse Square

FIRST AID

An emergency medical professional will be available during the hours of the ASE 2014 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 of the Oregon Ballroom in the convention center.

LUGGAGE STORAGE

Luggage storage will be available at the Oregon Convention Center in Holladay Lobby.

BUSINESS CENTER

A self-service business center is located directly above the main MLK Lobby in the convention center. Services include computer access, faxing, copying and computer printing. Contact information is posted for the local UPS store which can provide additional services including large print jobs, banner creation or small individual shipping services. The center is open seven days a week from 7:00 am to 11:00 pm.

PROGRAM INFO & REGULATIONS

FOOD FUNCTIONS

ASE will provide continental breakfast in the Oregon and Portland Ballroom Foyers 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 22 and Monday, June 23 and in the Oregon and Portland Ballroom Foyers on Friday, June 20, Saturday, June 21 and Tuesday, June 24. Please refer to the Schedule-at-a-Glance pages for the times of the daily morning, afternoon and lunch breaks.

ASE will provide lunch on a first-come, first serve basis (max. 350 participants) for attendees of the Science & Technology Theater, located in the Exhibit & Poster Hall. See page 96 of this program for a detailed theater schedule.

INTERNET ACCESS

ASE thanks Cardiovascular Credentialing International™ (CCI), booth #306, for sponsoring the Email Station. The Email Station is located adjacent to CCI in booth #308 in the Exhibit & Poster Hall. Printers for attendee use are also available at the Email Station. Complimentary wifi is available in the public areas of the Oregon 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. 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 Desk located in the Oregon Ballroom Foyer 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 2014 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 publication 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 2014 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 25th Annual Scientific Sessions will benefit all healthcare providers interested in the application of cardiovascular ultrasound imaging in the care of patients and in research. Participants with a wide variety of interests and expertise in cardiovascular imaging will find sessions that meet their needs and help improve their practice. High quality lectures, debates, case-based presentations, and oral and poster research presentations offer a broad spectrum of educational opportunities in both large and small group settings. The curriculum is intended to enhance knowledge and performance for adult and pediatric cardiologists, cardiothoracic and vascular surgeons, cardiac anesthesiologists, cardiac sonographers, and emergency and critical care physicians, as well as hospitalists, radiologists, research scientists, residents and fellows in training, students, and nurses. Attendees are encouraged to interact with available faculty.

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 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 individual in a position to control content.

Disclosure information is referenced and coded, and can be found beginning on page 121 of this program.

COMMERCIAL SUPPORT DISCLOSURE STATEMENT

Educational Grants: This activity is supported in part by educational grants from: Lantheus Medical Imaging, Inc., Medtronic and Thoratec.

In-Kind Donations: This activity is supported in part by in-kind donations from: GE Healthcare and Philips Healthcare.

CONFERENCE OBJECTIVES

This program has been designed to allow attendees to get a broad overview of topics, or delve deeply into one or two topics. In addition, particular care has been taken to incorporate ASE guidelines into talks and will demonstrate how and why they should be applied in your daily practice. The goals of the conference are to provide:

- A comprehensive review of current equipment and state-of-the-art techniques in cardiac and vascular ultrasound for the assessment of patients with a variety of cardiovascular conditions.
- An update of guidelines and recent advances in technology and research for the assessment of patients with cardiac and vascular disease.
- A review of fundamental and advanced interpretation of cardiac and vascular ultrasound and the impact of echocardiographic imaging on patient care and outcomes.
- Sessions that are appropriate for all levels of cardiac and vascular ultrasound professionals, including experts, intermediate learners, sonographers, fellows, and nurses.

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

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

EDUCATION INFORMATION

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 32.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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

Approved by the American College of Emergency Physicians for a maximum of 4.50 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.

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 username (email) and password.
 - a. 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, "**ASE2014**."
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 24, 2014.

SCIENTIFIC PROGRAM TRACKS & KEY

CASE-BASED LEARNING **CL**

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

IMAGING ESSENTIALS **E**

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

PERIOPERATIVE **P**

This one-day track, held on Saturday, June 21, has been designed by the ASE Council on Perioperative Echocardiography to bring surgeons, anesthesiologists, echocardiographers, and sonographers together. The session 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.

PEDIATRIC/CONGENITAL **PC**

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

PRACTICE **PR**

There are ongoing rapid changes in the health care delivery system that affect the practice of cardiology and cardiovascular imaging. This Sunday track will feature sessions to help attendees gain knowledge about these developments and learn strategies for having a successful practice. A special session on ethical dilemmas in echocardiography will explore what to do with non-cardiac findings on exams and questionable billing practices. The presentations are geared not only to cardiologists, but also to practice administrators and hospital and physician executives, with plenty of time for audience interaction with the panel of presenters.

RESEARCH **R**

Investigators will present the latest advances in cardiovascular ultrasound throughout the conference. Don't miss the prestigious Arthur E. Weyman Young Investigator's Award Competition, where the four best abstracts submitted compete in front of a panel of luminaries for international recognition. Meet the investigators during dedicated poster viewing times, and the Scientific Sessions Wrap-Up will highlight any science you may have missed.

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 track-based symposium discusses a specific topic in detail and instructs you on how to apply state-of-the-art cardiovascular ultrasound techniques in clinical practice. NEW for 2014 - the Program Committee has developed several innovative, multi-specialty symposia which will bring you a comprehensive view of the issues.

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 be covered as well in what promises to be an exciting session. You won't want to miss the special session on Friday, June 20: "Interactive Vascular Learning Lab."

ASE 2014 PROGRAM COMMITTEE



**Jonathan
Lindner,
MD, FASE**
Chairman



**Maurizio
Galderisi, MD**
EACVI
Representative



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**Rebecca Hahn,
MD, FASE**
Abstract Chair



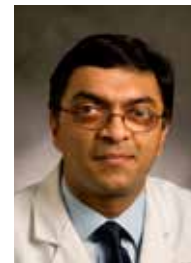
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**Kevin Wei, MD,
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**J. Todd Belcik,
BS, RCS,
RDCS, FASE**
Sonographer
Co-Chair



**Sunil Mankad,
MD, FASE**
Member at Large

SCHEDULE AT A GLANCE

Registration Open: 12:00 PM - 5:00 PM

ROOM	Oregon Ballroom 204	Oregon Ballroom 203			
1:30 - 3:00 PM	Maintenance of Certification by Case-based Echocardiography- Part I <i>This session requires separate registration.</i>	V Interactive Vascular Learning Lab			
3:30 - 5:00 PM	Maintenance of Certification by Case-based Echocardiography- Part II <i>This session requires separate registration.</i>	CL A PINOT Session: Audience Participation in Interesting Cases- Not Too Early to Get Started			
9:00 PM	ASE FOUNDATION'S HEELING HEARTS 5K GLOW WALK/RUN (OFF-SITE) Lace up your sneakers and join the fun! A night time run in downtown Portland to benefit the ASE Foundation's charitable activities. After-Party begins at 9:45 pm				

ase foundation presents

HEELING HEARTS 5K GLOW RUN

making strides toward cardiovascular health



PORTLAND WORLD TRADE CENTER
Friday, June 20
Pre-Race Registration 8:00 pm
Race Begins 9:00 pm

Funds from the 5K GLOW RUN are used for initiatives that support the improvement of cardiac care, which is a cause we can all feel "HEAD OVER HEELS" about!

Contributing partner: Siemens Healthcare

SIEMENS

#pdxglowrun
asefoundation.org/glow



GET CHARGED UP

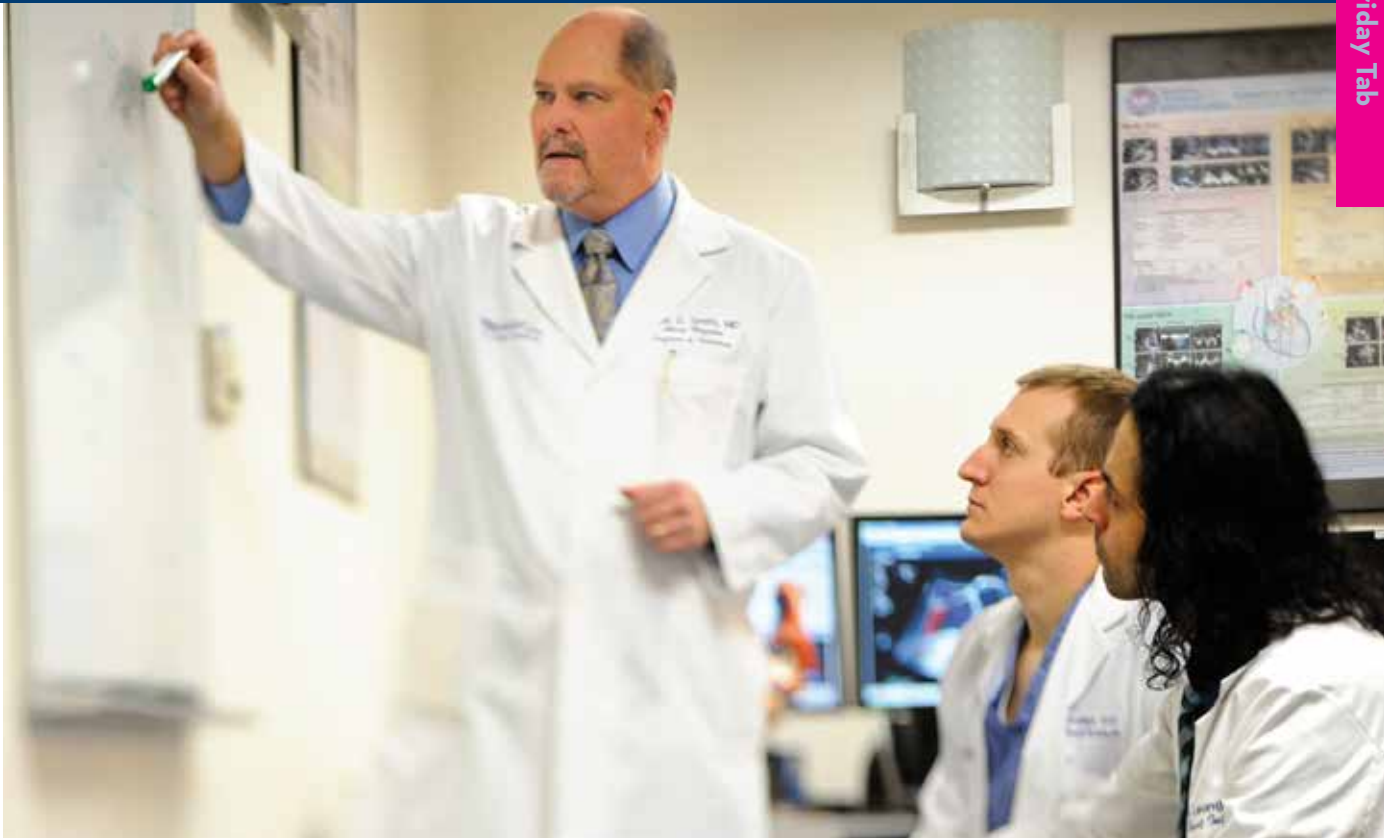
in Portland at the ASE FOUNDATION BOOTH



Get charged up at the ASE Foundation booth! While charging your phone, tablet and/or laptop, find information regarding the Research Awards Gala, Glow Run, and Taste of Portland events, and also participate in a raffle for one free hotel night. Additionally, staff will be on site to answer your questions about the conference or the Foundation's initiatives.

asefoundation.org

Congratulations Dr. Mikel D. Smith



Mikel D. Smith, MD, FASE | Professor of Medicine | Alberto Mazzoleni Professor of Cardiology | Director, Echocardiography Laboratory

The UK Gill Heart Institute congratulates Mikel D. Smith, MD, FASE, for receiving the 2014 Richard Popp Excellence in Teaching Award from the American Society of Echocardiography. Dr. Smith's colleagues applaud his unwavering commitment to education and his contributions to cardiovascular imaging. We congratulate him on this well-deserved award.

FRIDAY JUNE 20, 2014

1:30 PM - 3:00 PM

Maintenance of Certification by Case-based Echocardiography - Part I - Oregon Ballroom 204

Pre-Registration is required for this two-part session. Please visit ASE Registration Desk for more information.

Proctors: E. Le, A. Labovitz, G. Aurigemma

1:30 PM - 3:00 PM

V Interactive Vascular Learning Lab -

Oregon Ballroom 203

Chairs: S. Perese, S. Kim, A. Liu

3:30 PM - 5:00 PM

Maintenance of Certification by Case-based Echocardiography - Part II - Oregon Ballroom 204

Pre-Registration is required for this two-part session. Please visit ASE Registration Desk for more information.

Proctors: B. Khandheria, N. Pandian, B. Davidson

3:30 PM - 5:00 PM

CL A PINOT Session: Audience Participation in Interesting Cases- Not Too Early to Get Started -

Oregon Ballroom 203

3:30 PM - 3:50 PM

Presenter: J. Lindner

3:50 PM - 4:10 PM

Presenter: E. Gill

4:10 PM - 4:30 PM

Presenter: M. Stoddard

4:30 PM - 4:50 PM

Presenter: S. Heitner

4:50 PM - 5:00 PM

Question and Answer

Early Career and Fellow Members Special Networking Event

Friday, June 20th, 2014

6:00 pm - 8:00 pm

The ASE Membership Committee and Board of Directors invites you to join other early career and fellow members of ASE for drinks, food and some fun at Punch Bowl Social, 240 SW Morrison St., Portland, OR 97204. Fellows should be currently enrolled in a training program and early career members have been out of training four years or less.

Punch Bowl Social brings 'old school' entertainment, culinary refinement and a modern beverage program under one roof. Enjoy local beer, wine and fun as we kick off the ASE meeting at Punch Bowl Social, a popular downtown Portland gastro-pub.

Located in Pioneer Place, on the Max Line at the 2nd & Morrison stop.

SCHEDULE AT A GLANCE

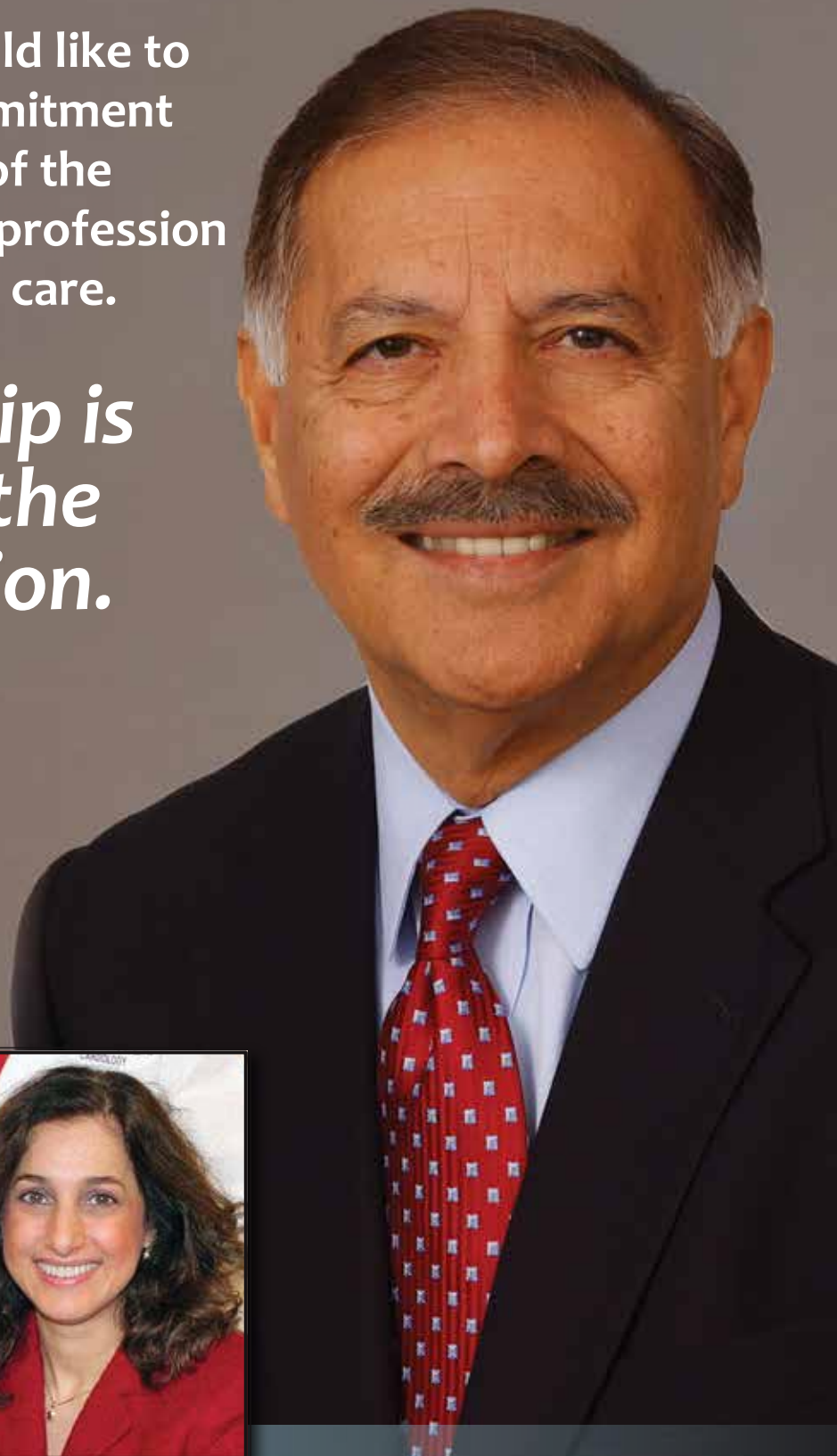
Registration Open: 6:00 AM – 6:30 PM • Exhibits Open: 4:30 PM – 6:30 PM

Continental Breakfast: 6:30 AM -7:30 AM

ROOM	Portland Ballroom	Oregon Ballroom 201	Oregon Ballroom 202	Oregon Ballroom 203	Oregon Ballroom 204
7:00 - 8:00 AM	CL Incorporating 3D in Daily Clinical Practice	CL Translating Ultrasound Physics to Patient Care	CL Echo in Pulmonary Hypertension	CL Echocardiography in Stroke	S Sonographer Educator's Summit
8:00 - 9:30 AM	S Echo and the Atria	PC Lesion 1: Truncus Arteriosus	S Advanced Skills in Assessing Diastole	P Mitral Valve Procedures – Intersection of the Surgeon and Echocardiographer	E Chamber Quantification – The Devil's in the Details
9:30 - 10:00 AM	BREAK				
10:00 - 11:30 AM	S Extreme Echo: A Sonic Adventure in Advanced Ultrasound Physics	PC Lesion 2: Aortic Coarctation and Interrupted Aortic Arch	S Echocardiography in Pregnancy	P Percutaneous Interventions for Mitral Valve Pathology	E Pericardial Disease
11:30 AM - 1:00 PM	SCIENCE & TECHNOLOGY THEATER: LANTHEUS MEDICAL IMAGING				
1:00 - 2:30 PM	S The School of Hard Knocks – Learning from My Greatest Mistakes	PC Lesion 3: Common Atrioventricular Canal	S Echo and Dyssynchrony: Is Timing Everything?	P Mechanical Circulatory Assist Therapy for Heart Failure	E Adult Congenital Primer for the General Echocardiographer
2:30 - 3:00 PM	BREAK				
3:00 - 4:30 PM	S Clash of the Titans I: Debates on Current Topics in Cardiovascular Imaging	PC Pediatric Echo Jeopardy (Preceded by Council Meeting Pediatric and Congenital Heart Disease and Awards Presentation)	S Echocardiography in Interventions – New Approaches to Old Problems	P Impact of Perioperative Ultrasound in Optimizing Management	E Quasi-Live Imaging – Advanced Assessment of Cardiomyopathies
4:30 - 6:30 PM	PRESIDENT'S RECEPTION IN THE EXHIBIT & POSTER HALL				

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Jose Banchs, MD, FASE
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2014 Gala Table Captain



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SATURDAY, JUNE 21, 2014

7:00 AM - 8:00 AM

CL Echocardiography in Stroke - Oregon Ballroom 203

Chairs: N. Carerj, S. Homma

7:00 AM - 7:15 AM

Left Atrial Appendage Quandries *S. Heinle*

7:15 AM - 7:30 AM

Assessment of Aortic Atheroma *I. Kronzon*

7:30 AM - 7:45 AM

Interrogating the Atrial Septum - Not Always Clear
W. Armstrong

7:45 AM - 8:00 AM

Valvular Sources *R. Grimm*

7:00 AM - 8:00 AM

CL Incorporating 3D In Daily Clinical Practice -

Portland Ballroom

Chairs: E. Gill, W. Tsang

7:00 AM - 7:15 AM

Transthoracic Acquisition - Tricks of the Trade *T. Van Houten*

7:15 AM - 7:30 AM

Mitral Valve Pathology *H. Nesser*

7:30 AM - 7:45 AM

Ventricular Function *L. Sugeng*

7:45 AM - 8:00 AM

3D in the OR *S. Shernan*

7:00 AM - 8:00 AM

CL Translating Ultrasound Physics to Patient Care -

Oregon Ballroom 201

Chairs: G. Strachan, P. Douglas

7:00 AM - 7:15 AM

Matching Pulse-Repetition Frequency to Purpose *B. Roberts*

7:15 AM - 7:30 AM

System Settings for Tissue Mechanics *H. Dokainish*

7:30 AM - 7:45 AM

Adjustments Key to Optimizing Contrast Echo *B. Doldt*

7:45 AM - 8:00 AM

Avoiding Artifacts Through "Knobology" *P. Knoll*

7:00 AM - 8:00 AM

CL Echo in Pulmonary Hypertension -

Oregon Ballroom 202

Chairs: W. Katz, G. Kane

7:00 AM - 7:15 AM

Dilemmas and Pitfalls of Measuring Pressure and Resistance
A. Abbas

7:15 AM - 7:30 AM

Echo in the Management of Pulmonary Embolism
F. Chaudhry

7:30 AM - 7:45 AM

Echo in Guiding the Treatment of Pulmonary Hypertension
N. Schiller

7:45 AM - 8:00 AM

Pulmonary Hypertension in Valve Disease *D. Bach*

7:00 AM - 8:00 AM

S Educator's Summit: "Sonography Program Admission Criteria: What Works?" - Oregon Ballroom 204

Chairs: R. Palma, L. El-Khoury Rumbarger, C. Mitchell

7:00 AM - 7:15 AM

Student Selection *L. El-Khoury Rumbarger*

7:15 AM - 7:30 AM

Admission Criteria *C. Mitchell*

7:30 AM - 7:45 AM

Interviewing Process *R. Palma*

7:45 AM - 8:00 AM

Question and Answer

8:00 AM - 9:30 AM

E Chamber Quantification - The Devil's in the Details - Oregon Ballroom 204

Chairs: D. Carney, J. Perez

8:00 AM - 8:15 AM

Two and Three-Dimensional Measurements of the LA
P. Burgess

8:15 AM - 8:30 AM

Right Ventricular Dimensions and Volumes *M. Umland*

8:30 AM - 8:45 AM

Left Ventricular Mass *M. Foster*

8:45 AM - 9:00 AM

Volumetric Measures of LV Function *A. Flinn*

9:00 AM - 9:15 AM

Pointers in the Measurement of Aortic and Vascular Dimension *S. Maisey*

9:15 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

P Mitral Valve Procedures - Intersection of the Surgeon and Echocardiographer - Oregon Ballroom 203

Chairs: M. Swaminathan, M. Taylor

8:00 AM - 8:15 AM

Advanced Lessons in Mitral Valve Anatomy J. Walker

8:15 AM - 8:30 AM

Special Considerations for Quantifying Mitral Regurgitation in the OR A. Finley

8:30 AM - 8:45 AM

Mitral Valve Repair: Live Taped Surgery D. Shook

8:45 AM - 8:55 AM

Case Presentation: Incidental MR in AVR S. Shillcutt

8:55 AM - 9:05 AM

Case Presentation: Correcting MR in HCM K. Rehfeldt

9:05 AM - 9:15 AM

Case Presentation: Impact of 3D TEE A. Berrebi

9:15 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

PC Lesion 1: Truncus Arteriosus - Oregon Ballroom 201

Chairs: J. Kovalchin, M. Brook

8:00 AM - 8:20 AM

Pathology S. Sanders

8:20 AM - 8:40 AM

Pre-operative Echocardiography J. Kovalchin

8:40 AM - 9:00 AM

Surgical Management S. Langley

9:00 AM - 9:20 AM

Post-operative Echocardiography D. Parra

9:20 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

S Advanced Skills in Assessing Diastole - Oregon Ballroom 202

Chairs: R. Wharton, G. Aurigemma

8:00 AM - 8:15 AM

Clinical Utility of Diastolic Assessment by Echo S. Lester

8:15 AM - 8:30 AM

Pitfalls of Diastology: Mitral Valve Disease/Prostheses H. Dokainish

8:30 AM - 8:45 AM

Diastolic Function in Patient with Arrhythmias M. Galderisi

8:45 AM - 9:00 AM

Advanced Diastolic Assessment: Pulmonary Veins, Intervals and More C. Appleton

9:00 AM - 9:15 AM

New Diastolic Indices and Their Clinical Applications S. Park

9:15 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

S Echo and the Atria - Portland Ballroom

Chairs: R. Asinger, K. Yoshida

8:00 AM - 8:15 AM

Update on the Role of Transthoracic Echo in Atrial Fibrillation A. Poppas

8:15 AM - 8:30 AM

Echo in Guiding Cardioversion J. Maalouf

8:30 AM - 8:45 AM

Has Quantifying LA Volume Made an Impact in Patient Management? J. Seward

8:45 AM - 9:00 AM

Echo in Appendage Occlusion Device Therapy W. Jaber

9:00 AM - 9:15 AM

Role of Advanced Echo Measures of Atrial Function V. Delgado

9:15 AM - 9:30 AM

Question and Answer

10:00 AM - 11:30 AM

E Pericardial Disease - Oregon Ballroom 204

Chairs: D. Sohn, A. Etes

10:00 AM - 10:15 AM

The Physiology of Tamponade and Constriction W. Katz

10:15 AM - 10:30 AM

Echo Guided Pericardiocentesis J. Dent

10:30 AM - 10:45 AM

Pitfalls and Common Mistakes in Hemodynamic Assessment S. Miller

10:45 AM - 11:00 AM

Pericardial Masses and Mass Effect G. Strachan

11:00 AM - 11:15 AM

Multimodality Approach to Pericardial Disease C. Broberg

11:15 AM - 11:30 AM

Question and Answer

SATURDAY, JUNE 21, 2014

10:00 AM - 11:30 AM

P Percutaneous Interventions for Mitral Valve Pathology -

Oregon Ballroom 203
Chairs: F. Mahmood, S. Gupta

10:00 AM - 10:15 AM

Suitability of Mitral Valve Anatomy for Percutaneous Intervention P. O'Gara

10:15 AM - 10:30 AM

Percutaneous Mitral Valve Repair - Live Taped Procedures
M. Reisman, G. Rose

10:30 AM - 10:45 AM

Essential Aspects of Intra-Procedural Imaging G. Mackensen

10:45 AM - 10:55 AM

Case Presentation: Complications of Percutaneous Mitral Repair G. Rose

10:55 AM - 11:05 AM

Case Presentation: Essential Role of TEE R. Hahn

11:05 AM - 11:15 AM

Case Presentation: Perhaps Surgery Was Best Option
N. Skubas

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

PC Lesion 2: Aortic Coarctation and Interrupted Aortic Arch -

Oregon Ballroom 201
Chairs: B. Eidem, T. Slesnick

10:00 AM - 10:20 AM

Pathology S. Sanders

10:20 AM - 10:40 AM

Pre-Operative Echocardiography J. Marek

10:40 AM - 11:00 AM

Surgical Management S. Langley

11:00 AM - 11:20 AM

Long-Term Outcomes and Multi-Modality Imaging Surveillance J. Lu

11:20 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

S Echocardiography in Pregnancy - Oregon Ballroom 202

Chairs: E. Foster, M. Mah

10:00 AM - 10:15 AM

Review of the Hemodynamics of Pregnancy G. Giraud

10:15 AM - 10:30 AM

Congenital Heart Disease and Pulmonary Hypertension
L. Burchill

10:30 AM - 10:45 AM

Aortic Disease and Pregnancy T. Naqvi

10:45 AM - 11:00 AM

Valvular Heart Disease T. Naqvi

11:00 AM - 11:15 AM

Cardiomyopathy and Heart Failure J. DeCara

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

S Extreme Echo: A Sonic Adventure: Advanced Ultrasound Physics - Portland Ballroom

Chairs: V. Mor-Avi, M. Belohlavek

10:00 AM - 10:18 AM

Daniel Kalmanson Lecture: Taking Lessons from Sound in Nature P. Burns

10:18 AM - 10:36 AM

Safety and Bioeffects of Ultrasound T. Matula

10:36 AM - 10:54 AM

Imaging Composition: Shear-Wave and Other New Approaches J. Miller

10:54 AM - 11:13 AM

New Transducer Technology - How Will It Effect Cardiovascular Imaging? K. Thomenius

11:13 AM - 11:30 AM

You, Me, Inge & Hellmuth: Celebrating 60 Years of Echo
J. Kisslo

1:00 PM - 2:30 PM

E Adult Congenital Primer for the General Echocardiographer - Oregon Ballroom 204

Chairs: A. DeFreitas, K. Kendall

1:00 PM - 1:15 PM

Late Complications in Repaired Tetralogy of Fallot W. Lai

1:15 PM - 1:30 PM

Switching Things Up - Transpositions J. Rychik

1:30 PM - 1:45 PM

Baffled by Baffles and Conduits? G. Pantely

1:45 PM - 2:00 PM

AV Canals and Uncommon ASD Variants L. Burchill

2:00 PM - 2:15 PM

The Exam: Ultrasound Views and Approaches in ACHD
P. Coon

2:15 PM - 2:30 PM

Question and Answer

SATURDAY, JUNE 21, 2014

1:00 PM - 2:30 PM

P Mechanical Circulatory Assist Therapy for Heart Failure -
Oregon Ballroom 203
Chairs: *F. Lombard, C. Wagner*

1:00 PM - 1:15 PM

Current Status of Ventricular Assist Devices *J. Estep*

1:15 PM - 1:30 PM

Live Taped LVAD Placement *A. Nicoara*

1:30 PM - 1:45 PM

Essential Role of Imaging in VAD Placement and Management *M. Van Dyck*

1:45 PM - 1:55 PM

Case Presentation: Importance of the Right Heart *Y. Topilsky*

1:55 PM - 2:05 PM

Case Presentation: Complications of Device Placement
R. Sniecinski

2:05 PM - 2:15 PM

Case Presentation: Impact of AV Valve Regurgitation *K. Glas*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

PC Lesion 3: Common Atrioventricular Canal -
Oregon Ballroom 201
Chairs: *M. Cohen, L. Lopez*

1:00 PM - 1:20 PM

Pathology *S. Sanders*

1:20 PM - 1:40 PM

Pre-Operative Echocardiography *M. Cohen*

1:40 PM - 2:00 PM

Surgical Management *S. Langley*

2:00 PM - 2:20 PM

Post-Operative Echocardiography *H. Ko*

2:20 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

S Echo and Dyssynchrony: Is Timing Everything? -
Oregon Ballroom 202
Chairs: *J. Puthumana, T. Arita*

1:00 PM - 1:15 PM

Clinical and Physiologic Impact of Dyssynchrony *Y. Seo*

1:15 PM - 1:30 PM

Echo Methods for Evaluating Dyssynchrony *J. Gorcsan*

1:30 PM - 1:45 PM

Clinical and Echo Markers that Predict Response *R. Grimm*

1:45 PM - 2:00 PM

Echo in Guiding CRT Lead Placement and Lead Delay *C. Yu*

2:00 PM - 2:15 PM

AV Optimization in CRT Therapy *R. Ronderos*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

S The School of Hard Knocks - Learning from My Greatest Mistakes - Portland Ballroom
Chairs: *W. Armstrong, A. Parisi*

1:00 PM - 1:15 PM

Is it Tamponade and Should it be Tapped? *L. Rodriguez*

1:15 PM - 1:30 PM

Pearls and Pitfalls in Evaluating Aortic Stenosis *G. Habib*

1:30 PM - 1:45 PM

Quandries in Discriminating Cardiomyopathies *M. Saric*

1:45 PM - 2:00 PM

When the Aorta is Perplexing *J. Mangion*

2:00 PM - 2:15 PM

Vascular Quagmires *S. Kim*

2:15 PM - 2:30 PM

Question and Answer

3:00 PM - 4:30 PM

E Quasi-Live Imaging - Advanced Assessment of Cardiomyopathies - Oregon Ballroom 204
Chairs: *S. Mankad, M. Park*

3:00 PM - 3:20 PM

LVADs - Optimization and Complications *B. Khandheria, C. Kramer*

3:20 PM - 3:40 PM

Contrast Echo for Left Ventricular Opacification
K. Wei, T. Belcik

3:40 PM - 4:00 PM

Advanced Hemodynamics in Hypertrophic Cardiomyopathy
J. Kisslo, J. Toptine

4:00 PM - 4:20 PM

Advanced Diastolic Hemodynamics *A. Klein, D. Agler*

4:20 PM - 4:30 PM

Question and Answer

SATURDAY, JUNE 21, 2014

3:00 PM - 4:30 PM

P Impact of Perioperative Ultrasound in Optimizing Management - Oregon Ballroom 203
Chairs: K. Zimmerman, S. Shillcutt

3:00 PM - 3:15 PM

Role of TEE in Non-Cardiac Surgery J. Shanewise

3:15 PM - 3:30 PM

Bedside FOCUS Exam: Value in the Perioperative Period
S. Reeves

3:30 PM - 3:45 PM

Critical Care TEE and TTE for Hemodynamic Monitoring
R. Savage

3:45 PM - 4:00 PM

Certification and Training Issues for Non-Cardiology Users
S. Shernan

4:00 PM - 4:15 PM

Question and Answer

4:15 PM - 4:30 PM

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

3:00 PM - 3:30 PM

PC Council Meeting Pediatric and Congenital Heart Disease and Awards Presentation (Non-CME) - Oregon Ballroom 201
L. Lopez

3:30 PM - 4:30 PM

PC Pediatric Echo Jeopardy - Oregon Ballroom 201
Chairs: M. Brook, D. Harrild

3:30 PM - 4:30 PM

Team 1: East W. Lai, S. Miller
Team 2: Central A. Dorfman, L. Young
Team 3: West A. Younoszai, N. Pinto

3:00 PM - 4:30 PM

S Echocardiography in Interventions - New Approaches to Old Problems - Oregon Ballroom 202
Chairs: S. Lerakis, I. Kronzon

3:00 PM - 3:15 PM

Paravalvular Regurgitation H. Michelena

3:15 PM - 3:30 PM

LA Closure Devices S. Goldstein

3:30 PM - 3:45 PM

Echo in Complex TAVR Dilemmas D. Gopal

3:45 PM - 4:00 PM

Atrial and Ventricular Septal Defect Closure T. Bartel

4:00 PM - 4:15 PM

Novel Approaches: 3D ICE and Fusion Imaging F. Silvestry

4:15 PM - 4:30 PM

Question and Answer

3:00 PM - 4:30 PM

S Clash of the Titans I: Debates on Current Topics in Cardiovascular Imaging - Portland Ballroom
Chairs: M. Picard, P. Douglas

3:00 PM - 3:15 PM

Initial Options for Evaluating the Patient with Chest Pain: Stress Echo Gives the Whole Picture N. Pandian

3:15 PM - 3:30 PM

Initial Options for Evaluating the Patient with Chest Pain: CT Angiography - Anatomy is All You Need M. Budoff

3:30 PM - 3:45 PM

3D Echo in Today's Routine Practice: Indispensable Skill for All Echocardiographers and All Studies R. Lang

3:45 PM - 4:00 PM

3D Echo in Today's Routine Practice: Niche Application With a Lot More Work to be Done A. Weyman

4:00 PM - 4:15 PM

Hand-Held Point Of Care Echocardiography: Technology That Should Replace the Physical Exam S. Kaul

4:15 PM - 4:30 PM

Hand-Held Point Of Care Echocardiography: Why Settle for Second-Rate Imaging? H. Rakowski

The AMERICAN SOCIETY of ECHOCARDIOGRAPHY
EDUCATION and RESEARCH FOUNDATION'S
5th Annual
ASE FOUNDATION
RESEARCH AWARDS GALA
SATURDAY, JUNE 21, 2014
SECURING THE FUTURE OF
CARDIOVASCULAR ULTRASOUND
Proceeds from this event support the
ASE Foundation's research awards program.
Questions? Visit the ASEF booth outside the exhibit hall.

SCHEDULE AT A GLANCE

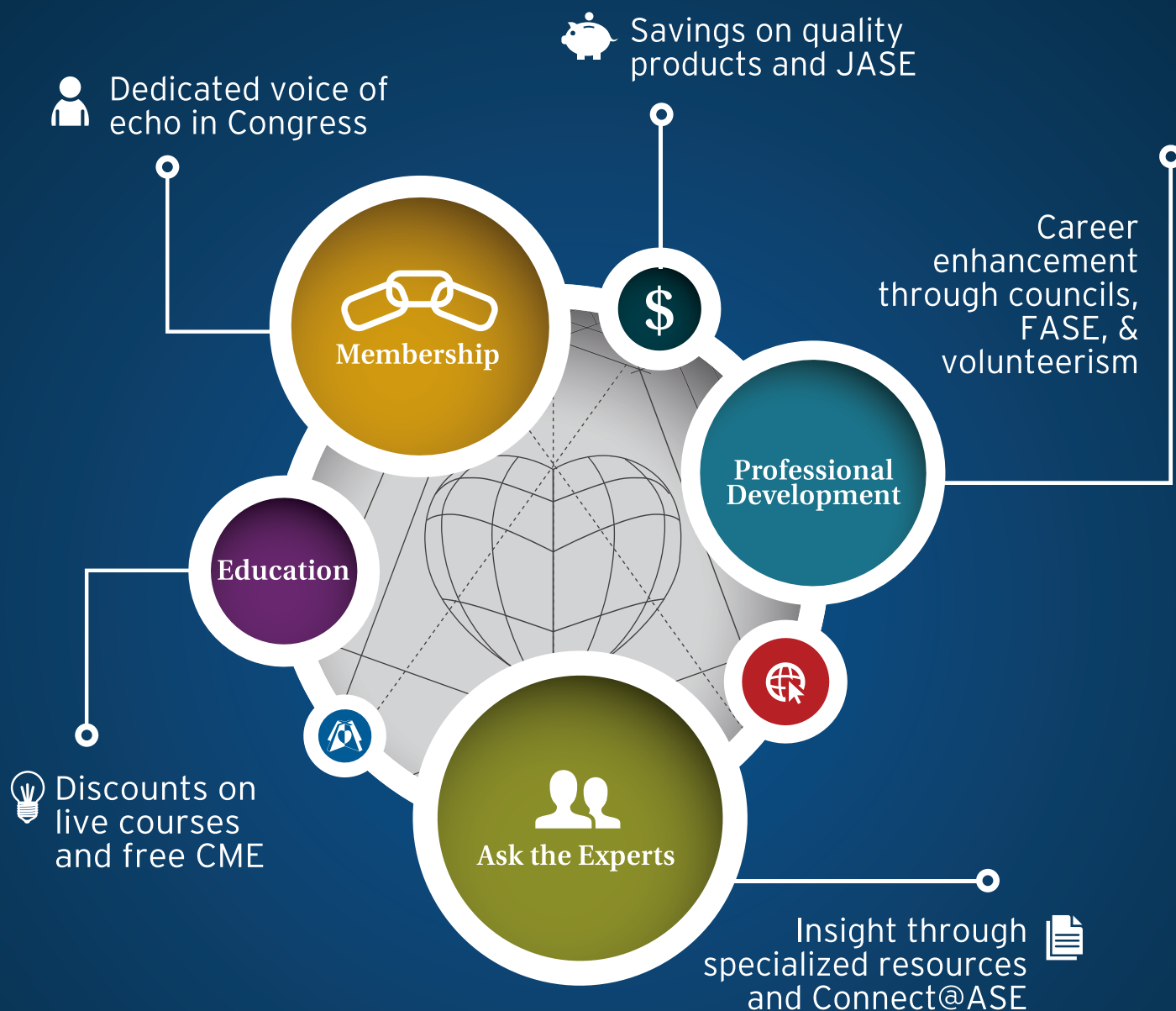
Registration Open: 6:30 AM - 6:00 PM • Exhibits Open: 9:00 AM - 4:00 PM

Continental Breakfast: 6:30 AM - 7:30 AM

ROOM	Portland Ballroom	Oregon Ballroom 201	Oregon Ballroom 202	Oregon Ballroom 203	Oregon Ballroom 204
7:00 - 8:00 AM	CL Relaxing Cases: Studies in Diastolic Function	R CL Case-Based Abstracts: Echo in Clinical Care I	CL The Evaluation of Shunts	CL Case Studies in Pericardial Disease	CL Contrast Echocardiography - Harnessing the Power of Bubbles
8:00 - 9:30 AM	ASE AWARDS PRESENTATIONS, ANNOUNCEMENTS AND 25 TH ANNUAL EDLER LECTURE S Portland Ballroom				
9:30 - 10:15 AM	BREAK AND VISIT EXHIBITS				
10:15 - 11:45 AM	S Fresh Approaches for the Assessment of Ischemia	PC Novel Technology in Pediatric Echocardiography	S Mitral Regurgitation: Evolving Understanding	S Early Diagnosis of Disease by Myocardial Deformation Imaging (Joint ASE/ EACVI Session)	E PR Balancing Lab Throughput and Quality - The Sonographer's Perspective
11:45 AM - 1:15 PM	SCIENCE & TECHNOLOGY THEATER: PHILIPS HEALTHCARE				
1:15 - 2:45 PM	S Extreme Echo: The Physiology of What We See	PC Perioperative Transesophageal Echo Cases That Altered Management	S When Right Goes Wrong: Right Heart Disease and Assessment	PR Ethics and Dilemmas in the Practice of Echocardiography	E Multimodality Imaging: Complementary or Competition?
2:45 - 3:30 PM	BREAK AND VISIT EXHIBITS				
3:30 - 5:00 PM	S Advanced Assessment of Aortic Stenosis	PC Hypertrophic Cardiomyopathy in Pediatrics	S Ultrasound in the Detection of Subclinical Disease	PR What is Happening in Healthcare and How to Prepare	E Emergency Room and ICU Imaging
5:10 - 6:00 PM	S INNOVATION IN MEDICINE - PAST, PRESENT, AND FUTURE Portland Ballroom				
6:00 - 7:00 PM	WELCOME RECEPTION				
7:00 PM - 12:00 AM	WILLAMETTE VALLEY SOCIETY OF ECHOCARDIOGRAPHY SOCIAL EVENT (OFF-SITE) This event requires separate registration. Proceeds from this event benefit the ASE Foundation.				

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SUNDAY, JUNE 22, 2014

7:00 AM - 8:00 AM

CL R Case-Based Abstracts: The Best of Echo in Clinical

Care I - Oregon Ballroom 201

Chairs: Y. Zhang, T. Geva, G. Ensing

7:00 AM - 7:05 AM

Welcome Y. Zhang, T. Geva, G. Ensing

7:05 AM - 7:15 AM

C1-01: Hidden Truth: Three Diagnostic Challenges of Pulmonary Artery Sling D. Jantzen

7:15 AM - 7:25 AM

C1-02: Even God Gets Things Backward: Tetralogy of Fallot with "Inverted" Pulmonary Valve M. Bock

7:25 AM - 7:35 AM

C1-03: Large Left Ventricular Aneurysm Masquerading as Cardiomyopathy in the Fetus L. Freud

7:35 AM - 7:45 AM

C1-04: Aortic to Right Ventricular Tunnel: Fetal and Postnatal Echocardiographic Findings A. Chelliah

7:45 AM - 7:55 AM

C1-05: The Great Pretender: Left Coronary Artery Origin by Two Dimensional Imaging D. Lara

7:55 AM - 8:00 AM

Question and Answer

7:00 AM - 8:00 AM

CL Case Studies in Pericardial Disease -

Oregon Ballroom 203

Chairs: F. Silvestry, I. Burwash

7:00 AM - 7:15 AM

Differentiating Pericardial Masses J. Puthumana

7:15 AM - 7:30 AM

Effusive-Constrictive Physiology C. Appleton

7:30 AM - 7:45 AM

Complex Consequences of Effusion J. Oh

7:45 AM - 8:00 AM

Appropriate Use of Multimodality Imaging M. Garcia

7:00 AM - 8:00 AM

CL Contrast Echocardiography - Harnessing the Power of

Bubbles - Oregon Ballroom 204

Chairs: H. Ito, W. Mathias, Jr.

7:00 AM - 7:15 AM

Contrast "Knobology" - System Settings for Success P. Knoll

7:15 AM - 7:30 AM

Revealing the True Picture with LVO R. Senior

7:30 AM - 7:45 AM

Niche Applications for Perfusion Imaging H. Leong-Poi

7:45 AM - 8:00 AM

Cases in Vascular Contrast Imaging S. Feinstein

7:00 AM - 8:00 AM

CL The Evaluation of Shunts - Oregon Ballroom 202

Chairs: R. Sicari, D. Sahn

7:00 AM - 7:15 AM

Locating and Quantifying Atrial Shunts J. Stevenson

7:15 AM - 7:30 AM

Non-Membranous VSDs A. Poppas

7:30 AM - 7:45 AM

Agitating Cases with Agitated Saline S. Goldstein

7:45 AM - 8:00 AM

Peering Into the Hole with 3D T. Bartel

7:00 AM - 8:00 AM

CL Relaxing Cases: Studies in Diastolic Function -

Portland Ballroom

Chairs: S. Nagueh, D. Bourque

7:00 AM - 7:15 AM

Flow Velocities: Mitral Inflow and Pulmonary Veins M. Quiñones

7:15 AM - 7:30 AM

Tissue Doppler: How to Use; When Not to Use K. Poh

7:30 AM - 7:45 AM

Situations Where Strain Relieves Your Stress I. Mikati

7:45 AM - 8:00 AM

Dealing with Discrepant Data P. Sogaard

8:00 AM - 9:30 AM

S ASE Awards Presentations, Announcements and 25th Annual Edler Lecture - Portland Ballroom

8:00 AM - 8:10 AM

Welcome, Announcements and Board of Directors Induction B. Byrd

8:10 AM - 8:20 AM

State of the ASE B. Byrd

8:20 AM - 8:30 AM

Incoming President's Address N. Weissman

8:30 AM - 8:50 AM

Edler Lecture: "Echocardiography in an Era of Multimodality Imaging" P. Pellikka

8:50 AM - 9:30 AM

Awards Presentations and other Society Recognitions

10:15 AM - 11:45 AM

E PR **Balancing Lab Throughput and Quality - The Sonographer's Perspective** - Oregon Ballroom 204
Chairs: B. Anderson, T. Mortemore

10:15 AM - 10:30 AM

Metrics of Quality - How to Recognize Excellence S. Witt

10:30 AM - 10:45 AM

IAC Accreditation - The Process B. Gorman

10:45 AM - 11:00 AM

Growing Pains - Common Lapses in QA M. Roberts

11:00 AM - 11:15 AM

Preliminary Reports - Who and When? S. Phillip

11:15 AM - 11:30 AM

Incorporating AUC - What's Practical? K. Horton

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

PC **Novel Technology in Pediatric Echocardiography** - Oregon Ballroom 201
Chairs: D. Sahn, S. Kutty

10:15 AM - 10:35 AM

Vortex Formation Imaging M. Vannan

10:35 AM - 10:55 AM

Shear Wave Imaging M. Pernot

10:55 AM - 11:15 AM

Microbubbles to See and Treat S. Kutty

11:15 AM - 11:35 AM

New Transducer Technology J. Thomas

11:35 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Early Diagnosis of Disease by Myocardial Deformation Imaging (Joint ASE/EACVI Session)** - Oregon Ballroom 203
Chairs: G. Habib, T. Abraham

10:15 AM - 10:30 AM

Canary in the Coal Mine: Deformation as an Early Marker of Disease T. Edvardsen

10:30 AM - 10:45 AM

Longitudinal Strain in Aortic Stenosis P. Lancellotti



10:45 AM - 11:00 AM

Strain Imaging for Improved Detection of Ischemia in CAD V. Delgado

11:00 AM - 11:15 AM

Strain in Hypertensive Disease and HCM P. Sengupta

11:15 AM - 11:30 AM

Interaction of Deformation and Twist in Heart Failure with Normal EF O. Smiseth

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Mitral Regurgitation: Evolving Understanding** - Oregon Ballroom 202
Chairs: F. Miller, S. Park

10:15 AM - 10:30 AM

Mitral Valve Morphology and How It Goes Astray J. Hung

10:30 AM - 10:45 AM

Quantifying Mitral Regurgitation by 2D Echo - Do's and Don'ts F. Asch

10:45 AM - 11:00 AM

Three-Dimensional Echo for Mitral Valve Morphology and Regurgitation L. Sugeng

11:00 AM - 11:15 AM

How to Handle Discrepant Data W. Stewart

11:15 AM - 11:30 AM

Role of Exercise Stress in the Assessment of Mitral Regurgitation P. Lancellotti

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

S **Fresh Approaches for the Assessment of Ischemia** - Portland Ballroom
Chairs: K. Yoshida, F. Chaudhry

10:15 AM - 10:30 AM

3D Echocardiography - Is There a Role in Stress? S. Iliceto

10:30 AM - 10:45 AM

Incremental Value of Perfusion T. Porter

10:45 AM - 11:00 AM

Strain Response to Ischemia for Enhancing Diagnosis J. Voigt

11:00 AM - 11:15 AM

Physiologic Insights of Coronary Doppler Imaging T. Akasaka

11:15 AM - 11:30 AM

Prognostic Implications of Diastolic Parameters During Stress J. Ha

11:30 AM - 11:45 AM

Question and Answer

SUNDAY, JUNE 22, 2014

1:15 PM - 2:45 PM

E Multimodality Imaging: Complementary or Competition? - Oregon Ballroom 204

Chairs: M. Scherrer-Crosbie, K. Chin

1:15 PM - 1:30 PM

The Economics of Making a Choice *L. Shaw*

1:30 PM - 1:45 PM

Coronary CT Imaging - When Anatomy Supercedes Ischemia
M. Shapiro

1:45 PM - 2:00 PM

Imaging the Thoracic Aorta *J. Perez*

2:00 PM - 2:15 PM

Assessment of Masses: Choosing the Right Test *B. Roberts*

2:15 PM - 2:30 PM

When to Consider MRI for Adult Congenital Disease
A. Prakash

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

PC Perioperative Transesophageal Echo Cases That Altered Management - Oregon Ballroom 201

Chairs: C. Altman, W. Border

1:15 PM - 1:30 PM

Portland Group *M. Minette, E. Madriago*

1:30 PM - 1:45 PM

Denver Group *A. Younoszai, D. Burkette*

1:45 PM - 2:00 PM

Atlanta Group *W. Border, B. Toole*

2:00 PM - 2:15 PM

Houston Group *C. Altman, K. Sexson Tejtel*

2:15 PM - 2:30 PM

Palo Alto Group *T. Tacy, S. Moodley*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

PR Ethics and Dilemmas in the Practice of Echocardiography - Oregon Ballroom 203

Chairs: R. Kerber, A. Labovitz

1:15 PM - 1:30 PM

Communication of Results: Who's Responsible When? *P. Knoll*

1:30 PM - 1:45 PM

Coding and Billing Behavior - Walk the Line *L. Gillam*

1:45 PM - 2:00 PM

Dealing with Non-Cardiovascular Findings on the Echo Exam
M. Malkowski

2:00 PM - 2:15 PM

Clinical Research - Informed Consent and Unanticipated Findings *M. Main*

2:15 PM - 2:30 PM

Sunshine Act and Handling of Industry Relationships
J. Kirkpatrick

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S When Right Goes Wrong: Right Heart Disease and Assessment - Oregon Ballroom 202

Chairs: P. Gutierrez-Fajardo, N. Schiller

1:15 PM - 1:30 PM

Right Heart Guidelines in Practice *L. Rudski*

1:30 PM - 1:45 PM

Quantifying Right Heart Function - Relative Benefits of Volume Versus Deformation Techniques *J. Chirinos*

1:45 PM - 2:00 PM

Multimodality Imaging of the Right Heart Imaging: Choosing a Modality *J. Cavalcante*

2:00 PM - 2:15 PM

Assessment of Pulmonary Hypertension and Vascular Resistance *G. Kane*

2:15 PM - 2:30 PM

Situations Where Correctly Assessing Right Heart Function is Critical *L. Gillam*

2:30 PM - 2:45 PM

Question and Answer

1:15 PM - 2:45 PM

S Extreme Echo: The Physiology of What We See -

Portland Ballroom

Chairs: A. Weyman, A. Pearlman

1:15 PM - 1:25 PM

Ventricular Interdependence - The Physiology *J. Thomas*

1:25 PM - 1:35 PM

Ventricular Interdependence - Echo Findings *J. Oh*

1:35 PM - 1:45 PM

Effects of Load and Rate on Ventricular Function - The Physiology *G. Giraud*

1:45 PM - 1:55 PM

Effects of Load and Rate on Ventricular Function - Echo Findings *T. Abraham*

SUNDAY, JUNE 22, 2014

1:55 PM - 2:05 PM

Perfusion-Function Relationship - The Physiology *S. Kaul*

2:05 PM - 2:15 PM

Perfusion-Function Relationship - Echo Findings *H. Leong-Poi*

2:15 PM - 2:25 PM

Concentric/Eccentric Remodeling *O. Smiseth*

2:25 PM - 2:35 PM

Concentric/Eccentric Remodeling - Echo Findings *J. Seward*

2:35 PM - 2:45 PM

Question and Answer

3:30 PM - 5:00 PM

E Emergency Room and Intensive Care Imaging -

Oregon Ballroom 204

Chairs: P. Peters, S. Sawada

3:30 PM - 3:45 PM

Complications of Acute Myocardial Infarction *B. Kane*

3:45 PM - 4:00 PM

Trauma Emergencies *A. Woolf*

4:00 PM - 4:15 PM

Presentations for Stress Cardiomyopathy *J. Warmesbecker*

4:15 PM - 4:30 PM

Complications in the Post-Cardiac Surgery Patient
M. McCulloch

4:30 PM - 4:45 PM

Hand-Held Echo Devices for FOCUS Exam *J. Neary*

4:45 PM - 5:00 PM

Question and Answer

3:30 PM - 5:00 PM

PC Hypertrophic Cardiomyopathy in Pediatrics -

Oregon Ballroom 201

Chairs: S. Colan, J. Smallhorn

3:30 PM - 3:50 PM

Echo Evaluation and Imaging Pearls *M. Friedberg*

3:50 PM - 4:10 PM

Complimentary Role of Cardiac MR: When and Why
S. Maskatia

4:10 PM - 4:30 PM

HCM vs. Athlete's Heart: Can I Play? *S. Colan*

4:30 PM - 4:50 PM

Management in 2014: When to Intervene *J. Jefferies*

4:50 PM - 5:00 PM

Questions and Answer

3:30 PM - 5:00 PM

PR What is Happening in Healthcare and How to Prepare - Oregon Ballroom 203

3:30 PM - 3:45 PM

Coding: Get What You've Earned *J. Rosenbloom*

3:45 PM - 4:15 PM

The Cardiovascular Service Line and How It Can Transform
Healthcare *J. Sauer*

4:15 PM - 4:45 PM

Cardiovascular Groups - Preparing for Volume to Value
J. Ozmon

4:45 PM - 5:00 PM

Question and Answer

3:30 PM - 5:00 PM

S Ultrasound in the Detection of Subclinical Disease -

Oregon Ballroom 202

Chairs: P. O'Gara, J. Perez

3:30 PM - 3:45 PM

Vascular Ultrasound: IMT, Vascular Compliance, Vasa
Vasorum Imaging *V. Nambi*

3:45 PM - 4:00 PM

Role of Stress Echo in Asymptomatic Patients *R. Sicari*

4:00 PM - 4:15 PM

Perfusion Imaging with Contrast Echo *R. Senior*

4:15 PM - 4:30 PM

Molecular Imaging and Other Future Techniques
F. Villanueva

4:30 PM - 4:45 PM

Screening Echocardiograms for Athletes *A. Magalski*

4:45 PM - 5:00 PM

Question and Answer

SUNDAY, JUNE 22, 2014

3:30 PM - 5:00 PM

S Advanced Assessment of Aortic Valve Stenosis -

Portland Ballroom

Chairs: J. Tam, R. Hahn

3:30 PM - 3:43 PM

Aortic Stenosis: Overview of the Hemodynamics and Ventricular Response *J. Dumesnil*

3:43 PM - 3:56 PM

Genetics and Biology of Aortic Stenosis *C. Otto*

3:56 PM - 4:09 PM

New Approaches to Quantifying the Severity of Aortic Stenosis *D. Tighe*

4:09 PM - 4:22 PM

Low Gradient Situations *I. Burwash*

4:22 PM - 4:35 PM

The Ventricular-Valvular-Arterial Relationship *W. Little*

4:35 PM - 4:48 PM

Management Algorithm for Aortic Stenosis in the Era of TAVR
J. Passeri

4:48 PM - 5:00 PM

Question and Answer

5:10 PM - 6:00 PM

S Innovation in Medicine - Past, Present, and Future -

Portland Ballroom

Chairs: J. Lindner, B. Byrd

5:10 PM - 5:25 PM

Great Feats in Cardiovascular Technology - Lessons from the Past *A. Starr*

5:25 PM - 5:40 PM

The Intersection of Computation and Medicine

5:40 PM - 5:55 PM

The Cost of Innovation *M. Lauer*

5:55 PM - 6:00 PM

Question and Answer

SCHEDULE AT A GLANCE

Registration Open: 6:30 AM - 6:30 PM • Exhibits Open: 9:00 AM - 4:00 PM

Continental Breakfast: 6:30 AM - 7:30 AM

ROOM	Portland Ballroom	Oregon Ballroom 201	Oregon Ballroom 202	Oregon Ballroom 203	Oregon Ballroom 204
7:00 - 8:00 AM	CL Echo in the OR	R CL Case-Based Abstracts: The Best of Echo in Clinical Care II	CL Geographic Medicine: Cases from Around the World	CL The Heart as a Bystander in Cancer	CL Cases Illustrating Incremental Value of 3D Echo
8:00 - 9:30 AM	R S ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION / 15 TH ANNUAL FEIGENBAUM LECTURE Portland Ballroom				
9:30 - 10:15 AM	BREAK AND VISIT EXHIBITS				
10:15 - 11:45 PM	S Echo in the Evaluation and Prevention of Sudden Cardiac Death	PC Advanced Left Ventricular Mechanics in Pediatrics (Joint ASE/EACVI Session)	S Extreme Echo: Imaging in Science	V Vascular Imaging: Essentials for the Cardiologist	E Commonly Encountered Discrepancies in Echo
11:45 AM - 1:15 PM	SCIENCE & TECHNOLOGY THEATER: BRACCO DIAGNOSTICS INC.				
1:15 - 2:45 PM	S Stress Echo: It's Not Just About Ischemic Heart Disease	PC Advancing Excellence in Pediatric Echocardiography	S Echo-Oncology: The Intersection between Cancer and the Heart (Joint ASE/EACVI Session)	V Carotid Conundrums	E Systematic Approach to Prosthetic Valves
2:45 - 3:30 PM	SILVER ANNIVERSARY RECEPTION IN THE EXHIBIT & POSTER HALL				
3:30 - 5:00 PM	S Diabetes, Inflammation, and the Cardiovascular System	PC Fetal Echo and Prognosis followed by Fireside Chat by David Sahn, MD, FASE	S Cardiac Imaging in Percutaneous Valve Repair	S Filling Clinical Gaps with New Technology (Joint ASE/JSE Session)	E Council on Cardiovascular Sonography Meeting and Awards Presentation
5:00 - 6:30 PM	S ECHO JEOPARDY Science & Technology Theater				

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MONDAY, JUNE 23, 2014

7:00 AM - 8:00 AM

CL R Case-Based Abstracts: The Best of Echo in Clinical

Care II - Oregon Ballroom 201

Chairs: *D. Forst, F. Miller*

7:00 AM - 7:05 AM

Welcome *D. Forst, F. Miller*

7:05 AM - 7:15 AM

C2-O1: Screwed: Iatrogenic Aortic Dissection After Spinal Stabilization *L. Subrahmanyam*

7:15 AM - 7:25 AM

C2-O2: An Unusual Cause of Left Main Coronary Ischemia Due to Multiple Large Aortic Papillary Fibroelastomas *S. Khan*

7:25 AM - 7:35 AM

C2-O3: An Unusual Case of Right Atrial Fibroma Causing Supravalvular Tricuspid Obstruction *A. Mattoso*

7:35 AM - 7:45 AM

C2-O4: Half-Heartedly Diagnosing a Peripartum Cardiomyopathy *A. Seratnahaei*

7:45 AM - 7:55 AM

C2-O5: Familial Transthyretin Amyloidotic Cardiomyopathy Masquerading as Hypertrophic Obstructive Cardiomyopathy *A. Peterson*

7:55 AM - 8:00 AM

Question and Answer

7:00 AM - 8:00 AM

CL Cases Illustrating Incremental Value of 3D Echo -

Oregon Ballroom 204

Chairs: *T. Binder, N. Pandian*

7:00 AM - 7:15 AM

Atrioventricular Valve Disease *J. Kwan*

7:15 AM - 7:30 AM

Guiding Interventional Procedures *R. Siegel*

7:30 AM - 7:45 AM

Adult Congenital Heart Disease *L. Mertens*

7:45 AM - 8:00 AM

Ventricular Function and Geometry *L. Badano*

7:00 AM - 8:00 AM

CL Echo in the Operating Room - Portland Ballroom

Chairs: *D. Thys, M. Adams*

7:00 AM - 7:15 AM

Pre-Bypass Findings that Alter Surgical Approach *S. Reeves*

7:15 AM - 7:30 AM

Procedures That Require Intra-Operative TEE Guidance *K. Glas*

7:30 AM - 7:45 AM

Not All is Well Coming Off Pump: Valvular *J. Shanewise*

7:45 AM - 8:00 AM

Not All is Well Coming Off Pump: Non-Valvular *J. Dent*

7:00 AM - 8:00 AM

CL Geographic Medicine: Cases from Around The World -

Oregon Ballroom 202

Chairs: *S. Kort, G. Scalia*

7:00 AM - 7:15 AM

South America *R. Ronderos*

7:15 AM - 7:30 AM

South Asia *K. Tong*

7:30 AM - 7:45 AM

North Asia *Y. Zhang*

7:45 AM - 8:00 AM

Middle East *M. Al-Mallah*

7:00 AM - 8:00 AM

CL The Heart as a Bystander in Cancer -

Oregon Ballroom 203

Chairs: *G. Galanti, M. McCulloch*

7:00 AM - 7:15 AM

Atypical Infiltrative Presentations *S. Heitner*

7:15 AM - 7:30 AM

Intracardiac Masses - Normal Variant or Tumor? *J. Plana*

7:30 AM - 7:45 AM

Extracardiac Compression Cases *J. Banchs*

7:45 AM - 8:00 AM

Consequences of Radiation *I. Sebag*

8:00 AM - 9:30 AM

R S Arthur E. Weyman Young Investigator's Award Competition/15th Annual Feigenbaum Lecture -

Portland Ballroom

Judges: *R. Hahn, R. Grimm, A. Weyman, K. Takenaka, P. Lancellotti, P. Douglas, W. Zoghbi, B. Byrd*

8:00 AM - 8:05 AM

Welcome and Introduction of Judges *R. Hahn*

8:05 AM - 8:20 AM

YIA-1: Left Atrial Cross Sectional Area, a Marker of Left Atrial Shape, is a Novel Risk Factor for Cardioembolic Stroke and Recurrence of Ischemic Stroke *T. Tan*

8:20 AM - 8:35 AM

YIA-2: Changes in Speckle-Tracking Echocardiographic Measures of Right Ventricular Function Correlate with Changes in Measures of Exercise Function after Percutaneous Implantation of the Edwards SAPIEN Transcatheter Heart Valve in the Pulmonary Position *S. Chowdhury*

8:35 AM - 8:50 AM

YIA-3: Platelet Attachment to Vascular Endothelium Occurs in Both Early and Late-Stage Atherosclerosis Secondary to Dysregulation of Von Willebrand Factor: Evaluation by Contrast Ultrasound Molecular Imaging *C. Shim*

8:50 AM - 9:05 AM

YIA-4: Mechanism of Early Diastolic Intraventricular Pressure Gradients During Exercise *K. Matsui*

9:05 AM - 9:25 AM

15th Annual Feigenbaum Lecture: We Are Our History: Cardiac Adaptations to Childhood Disease and Implications for Adult Life *L. Mertens*

9:25 AM - 9:28 AM

Recognition of Feigenbaum Lecturer and Presentation of Plaque *H. Feigenbaum, L. Mertens*

9:28 AM - 9:30 AM

Presentation of the YIA Plaques and Announcement of the Winner *R. Hahn, R. Grimm*

10:15 AM - 11:45 AM

E Commonly Encountered Discrepancies in Echocardiography - Oregon Ballroom 204

Chairs: W. Zoghbi, M. Adams

10:15 AM - 10:30 AM

Aortic Insufficiency - Pitfalls of Measurements *I. Kronzon*

10:30 AM - 10:45 AM

When Diastology May be Dastardly *L. Rodriguez*

10:45 AM - 11:00 AM

Athlete or Pathology? *D. Prior*

11:00 AM - 11:15 AM

Constriction, Tamponade, Both? *J. Thomas*

11:15 AM - 11:30 AM

Pulmonary Pressure Problems - Feeling the Resistance *L. Badano*

11:30 AM - 11:45 AM

Question and Answer

10:15 AM - 11:45 AM

PC Advanced Left Ventricular Mechanics in Pediatrics (Joint ASE/EACVI Session) - Oregon Ballroom 201

Chairs: S. Colan, J. Marek

10:15 AM - 10:35 AM

Kinematics: Structure, Function, and the Impact of Age *B. Eidem*

10:35 AM - 10:55 AM

Pump Versus Myocardial Function: Factors Influencing Systolic Performance *L. Mertens*

10:55 AM - 11:15 AM

Echocardiographic Measurements of Contractility and Their Utility *O. Miller*

11:15 AM - 11:35 AM

Strain and its Role in Systolic Function Assessment *J. D'Hooge*

11:35 AM - 11:45 AM

Questions and Answer



10:15 AM - 11:45 AM

S Echo in the Evaluation and Prevention of Sudden Cardiac Death - Portland Ballroom

Chairs: R. Kerber, M. Koivisto

10:15 AM - 10:30 AM

Athlete's Heart or HCM? *R. Weiner*

10:30 AM - 10:45 AM

The Intersection of Genotype and Phenotype *S. Nagueh*

10:45 AM - 11:00 AM

Echo Assessment of Deadly Diseases of the Aorta *W. Armstrong*

11:00 AM - 11:15 AM

Echo in Pulmonary Embolism *S. Kort*

11:15 AM - 11:30 AM

Cardiomyopathies with Deadly Consequences *S. Goldstein*

11:30 AM - 11:45 AM

Questions and Answers

10:15 AM - 11:45 AM

S Extreme Echo - Role of Imaging in Science - Oregon Ballroom 202

Chairs: N. Weissman, B. Hoit

10:15 AM - 10:30 AM

Echo in Pre-Clinical Research - From Mice to Men *M. Scherrer-Crosbie*

10:30 AM - 10:45 AM

Ultrasound Imaging in Drug Development - Industry's Perspective *T. Tuthill*

10:45 AM - 11:00 AM

Essentials of Running an Echo Core Lab *N. Weissman*

11:00 AM - 11:15 AM

Recent Successes and Failures of Echo as an Endpoint in Clinical Trials *M. Quiñones*

11:15 AM - 11:30 AM

Insights from Molecular Imaging *J. Lindner*

11:30 AM - 11:45 AM

Questions and Answer

10:15 AM - 11:45 AM

V Vascular Imaging: Essentials for the Cardiologist - Oregon Ballroom 203

Chairs: S. Perese, N. Hamburg

10:15 AM - 10:30 AM

Basic and Advanced Components of the Carotid Duplex Study *S. Kim*

10:30 AM - 10:45 AM

Carotid Imaging Standards and Quality Assurance *S. Perese*

10:45 AM - 11:00 AM

Common Mistakes and Incidental Finding in Carotid Ultrasound *R. Benenstein*

11:00 AM - 11:15 AM

Duplex Scanning for PAD *A. Liu*

11:15 AM - 11:30 AM

The Cutting Edge: 3D, Contrast and Plaque Characterization
A. Johri

11:30 AM - 11:45 AM

Questions and Answer

1:15 PM - 2:45 PM

E Systematic Approach to Evaluation of Prosthetic Valves -

Oregon Ballroom 204

Chairs: *K. Yared, G. Aurigemma*

1:15 PM - 1:30 PM

ASE Guidelines for the Assessment of Prosthetic Valves
R. Palma

1:30 PM - 1:45 PM

Distinguishing Prosthesis Mismatch from Dysfunction
J. Dumesnil

1:45 PM - 2:00 PM

Common Mistakes in the Evaluation of Prosthetic Valves
P. Burgess

2:00 PM - 2:15 PM

Evaluation of Prosthetic Endocarditis *J. Hung*

2:15 PM - 2:30 PM

Evaluation and Treatment of Valve Thrombosis *S. Lester*

2:30 PM - 2:45 PM

Questions and Answer

1:15 PM - 2:45 PM

PC Advancing Excellence in Pediatric Echocardiography -

Oregon Ballroom 201

Chairs: *G. Ensing, I. Parness*

1:15 PM - 1:30 PM

Appropriate Use Criteria *R. Sachdeva*

1:30 PM - 1:45 PM

ACC Quality Metrics *L. Lopez*

1:45 PM - 2:00 PM

Pediatric Echo Laboratory Directors Survey *W. Lai*

2:00 PM - 2:15 PM

Training the Next Generation of Congenital Heart Disease
Imagers *B. Printz*

2:15 PM - 2:30 PM

Toward Improved Reproducibility of Echo Measurements
T. Geva

2:30 PM - 2:45 PM

Questions and Answer

1:15 PM - 2:45 PM

S Stress Echo: It's Not Just About Ischemic Heart Disease

- Portland Ballroom

Chairs: *L. Blauwet, S. Little*

1:15 PM - 1:30 PM

Evaluation of Aortic Valve Disease *W. Stewart*

1:30 PM - 1:45 PM

Evaluation of Mitral Valve Disease *M. Barbosa*

1:45 PM - 2:00 PM

Stress Echo for Hypertrophic Cardiomyopathy *T. Abraham*

2:00 PM - 2:15 PM

Evaluation of Pulmonary Hypertension *D. Prior*

2:15 PM - 2:30 PM

Diastolic Stress Test *A. Klein*

2:30 PM - 2:45 PM

Questions and Answer

1:15 PM - 2:45 PM

S Echo-Oncology: The Intersection Between Cancer and the Heart (Joint ASE/EACVI

Session) - Oregon Ballroom 202

Chairs: *M. Galderisi, J. Banchs*

1:15 PM - 1:30 PM

Cardiotoxic Drugs in Oncology *D. Cardinale*

1:30 PM - 1:45 PM

Echo Monitoring for Chemo-Related Cardiotoxicity *J. Plana*

1:45 PM - 2:00 PM

The Heart as a Bystander: Amyloid, GVHD, etc. *I. Sebag*

2:00 PM - 2:15 PM

Radiation-Induced Heart Disease *J. Banchs*

2:15 PM - 2:30 PM

Echo Findings in Non-Malignant Hematologic Disease *V. Sachdev*

2:30 PM - 2:45 PM

Questions and Answer

1:15 PM - 2:45 PM

V Carotid Conundrums - Oregon Ballroom 203

Chairs: *S. Kim, A. Johri*

1:15 PM - 1:30 PM

Carotid Bruit with a "Normal" Duplex Study *N. Evans*

1:30 PM - 1:45 PM

Moderate Stenosis - How to Incorporate Clinical Information
G. Moneta

1:45 PM - 2:00 PM

Evaluating the Stented and Repaired Artery *F. Shamoun*

2:00 PM - 2:15 PM

Dealing with Discrepant Data *T. Naqvi*

2:15 PM - 2:30 PM

Case Studies of Challenging Situations *S. Kim*

2:30 PM - 2:45 PM

Questions and Answer



3:30 PM - 5:00 PM

E Council on Cardiovascular Sonography Meeting and Awards Presentation (Non-CME) - Oregon Ballroom 204
Chairs: *E. McIlwain, P. Coon, C. Mitchell*

3:30 PM - 3:45 PM

Update from the Sonographer Council *E. McIlwain*

3:45 PM - 4:00 PM

Presentation of Awards and Grants *P. Coon*

4:00 PM - 4:20 PM

Advanced Cardiac Sonographer Update *M. Bierig*

4:20 PM - 4:45 PM

Advocacy Update: Reimbursement Changes and the ACA
J. Rosenbloom

4:45 PM - 5:00 PM

Questions and Answer

3:30 PM - 5:00 PM

PC Fetal Echo and Prognosis - Oregon Ballroom 201
Chairs: *L. Hornberger, P. Barker*

3:30 PM - 3:50 PM

Borderline Small Left Ventricle *S. Morris*

3:50 PM - 4:10 PM

Restrictive Atrial Septum *E. Michelfelder*

4:10 PM - 4:30 PM

Twin-Twin Transfusion *A. Moon-Grady*

4:30 PM - 4:50 PM

Predicting Neurodevelopmental Outcome *J. Rychik*

4:50 PM - 5:00 PM

Questions and Answer

3:30 PM - 5:00 PM

S Diabetes, Inflammation and the Cardiovascular System - Portland Ballroom
Chairs: *S. Chadderdon, P. Sogaard*

3:30 PM - 3:50 PM

Insulin Resistance, Inflammation, and Vascular Dysfunction
A. Chait

3:50 PM - 4:05 PM

The Stiff Diabetic Heart - Etiology and Assessment
P. Sogaard

4:05 PM - 4:20 PM

The Diabetic Cardiomyopathy - Focus on Energetics *S. Litwin*

4:20 PM - 4:35 PM

Evaluation for CAD - Are Diabetics Different? *P. Pellikka*

4:35 PM - 4:50 PM

Macro- and Microvascular Insights from Vascular Imaging
N. Hamburg

4:50 PM - 5:00 PM

Questions and Answer

3:30 PM - 5:00 PM

S Cardiac Imaging in Percutaneous Repair of Valve Disease - Oregon Ballroom 202
Chairs: *D. Rubenson, T. Shiota*

3:30 PM - 3:45 PM

Echo Versus CT in Planning and Guiding Intervention
R. Siegel

3:45 PM - 4:00 PM

3D Echo in TAVR *M. Monaghan*

4:00 PM - 4:15 PM

Role of Echo in Percutaneous Mitral Repair *F. Asch*

4:15 PM - 4:30 PM

Echocardiography to Diagnose Complications: Assessment After Valve Deployment *L. Gillam*

4:30 PM - 4:45 PM

Echo Evaluation of Complications *F. Silvestry*

4:45 PM - 5:00 PM

Questions and Answer

3:30 PM - 5:00 PM

S Filling Clinical Gaps with New Technology (Joint ASE/JSE Session) - Oregon Ballroom 203

Chairs: *Y. Otsuji, J. Thomas*

3:30 PM - 3:45 PM

Myocardial Strain in CAD - Exercise Stress and Ischemic Memory Applications *S. Nakatani*

3:45 PM - 4:00 PM

Sonothrombolysis - Ultrasound as Therapy *T. Porter*

4:00 PM - 4:15 PM

Guiding Mitral Surgery with 3D Echo *M. Takeuchi*

4:15 PM - 4:30 PM

Imaging Intraventricular Gradients and Flow Vectors
M. Vannan

4:30 PM - 4:45 PM

Imaging Electro-Mechanical Coupling *Y. Seo*

4:45 PM - 5:00 PM

Questions and Answer

5:00 PM - 6:00 PM

PC Fireside Chat by David Sahn, MD, FASE - Oregon Ballroom 201
Moderator: *L. Hornberger*

5:00 PM - 6:30 PM

S Echo Jeopardy - Science and Technology Theater, Exhibit Hall B

Hosts: *J. Gorcsan, S. Mankad*

Team 1: *D. Agler, M. Picard*

Team 2: *S. Mulvagh, A. Labovitz*

Team 3: *P. Lancellotti, P. Nihoyannopoulos*



SCHEDULE AT A GLANCE

Registration Open: 6:30 AM - 4:30 PM • Exhibits and Poster Hall Closed

Continental Breakfast: 6:30 AM - 7:30 AM

ROOM	Portland Ballroom	Oregon Ballroom 201	Oregon Ballroom 202	Oregon Ballroom 203	Oregon Ballroom 204
7:00 - 8:00 AM	CL Case Studies in Systemic Disease	CL Not Your Ordinary Ischemic Disease	CL Advance Your Skills in Stress Echo	V CL Clinical Application of Vascular Imaging	R Sonographers at the Cutting Edge of Research
8:00 - 9:30 AM	S Clash of the Titans II: Debates on Current Topics in Cardiovascular Imaging	PC How To...	S Critical Role of Echo in Hypertrophic Cardiomyopathy	S Multimodality Imaging in Ischemic Heart Disease	E Cardiac Mechanics - Theory and Image Augmentation
9:30 - 10:00 AM	BREAK				
10:00 - 11:30 AM	S Prosthetic Valve Function and Dysfunction	PC R Pediatric Oral Abstracts	S Echocardiographic Features of Uncommon Systemic Diseases	S Quality Improvement in the Echo Lab	E Tailored Imaging Approaches to Better Understand ACHD
11:30 AM - 1:00 PM	SCIENCE & TECHNOLOGY THEATER: ABBOT VASCULAR				
1:00 - 2:30 PM	S R Highlights of the 25th Scientific Sessions - Recap of the Best Discoveries	PC Controversies in Pediatric Echocardiography	S Three-Dimensional Echo in the Management of Valve Disease	S Echo in Heart Failure	E Advanced Practice of Stress Echo
2:30 - 3:00 PM	BREAK				
3:00 - 4:30 PM	S Putting Experience to Work: Challenging Cases from Past Presidents	PC Adult Congenital Heart Disease: Imaging That Impacts Management			

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TUESDAY, JUNE 24, 2014

7:00 AM - 8:00 AM

CL Not Your Ordinary Ischemic Heart Disease -

Oregon Ballroom 201
Chairs: J. Oh, F. Ten Cate

7:00 AM - 7:15 AM

Valuable Lessons from Contrast S. Mulvagh

7:15 AM - 7:30 AM

Anomalous Coronary Connections M. Saric

7:30 AM - 7:45 AM

Acute Ischemic Valve Disease V. Rigolin

7:45 AM - 8:00 AM

Complications of Percutaneous or Surgical Intervention
J. DeCara

7:00 AM - 8:00 AM

CL Case Studies in Systemic Disease - Portland Ballroom

Chairs: B. Davidson, J. Song

7:00 AM - 7:15 AM

Non-Diabetic Endocrine Disorders R. Davidoff

7:15 AM - 7:30 AM

Uncommon Genetic Disease M. Coggins

7:30 AM - 7:45 AM

Connective Tissue Diseases K. Klarich

7:45 AM - 8:00 AM

Autoimmune Disorders J. Silbiger

7:00 AM - 8:00 AM

CL Advance Your Skills in Stress Echo -

Oregon Ballroom 202
Chairs: K. Yared, H. Leong-Poi

7:00 AM - 7:15 AM

Causes of Hypotension N. Nanda

7:15 AM - 7:30 AM

Valve Disease in Stress Echo R. Martin

7:30 AM - 7:45 AM

Microvascular Dysfunction K. Wei

7:45 AM - 8:00 AM

Artifacts and Causes of False Positive D. Orsinelli

7:00 AM - 8:00 AM

V CL Clinical Application of Vascular Imaging -

Oregon Ballroom 203
Chairs: R. Benenstein, N. Hamburg

7:00 AM - 7:10 AM

Council on Vascular Ultrasound Business Meeting

7:10 AM - 7:15 AM

Travel Grant Winner H. Koduri

7:15 AM - 7:30 AM

Case Studies F. Shamoun

7:30 AM - 7:45 AM

Case Studies R. Quiroz

7:45 AM - 8:00 AM

Case Studies R. Benenstein

7:00 AM - 8:00 AM

R Sonographers at the Cutting Edge of Research -

Oregon Ballroom 204
Chairs: J. Hill, A. Flinn

7:00 AM - 7:10 AM

Valve Disease D. Oliver

7:10 AM - 7:20 AM

Stress Echocardiography M. Bierig

7:20 AM - 7:30 AM

Contrast Echocardiography L. Harmann

7:30 AM - 7:40 AM

Ventricular Mechanics A. Armour

7:40 AM - 7:50 AM

ASEF-Funded Sonographer Research Presentation V. Moore

7:50 AM - 8:00 AM

Question and Answer

8:00 AM - 9:30 AM

E Cardiac Mechanics - Theory and Image Augmentation -

Oregon Ballroom 204
Chairs: S. Coulter, J. Hill

8:00 AM - 8:15 AM

General Principles Governing Systolic and Diastolic Function
B. Hoit

8:15 AM - 8:30 AM

Strain and Strain Rate D. Bourque

8:30 AM - 8:45 AM

Rotation, Twist and Torsion J. Hill

8:45 AM - 9:00 AM

Cardiac Synchrony R. Meece

9:00 AM - 9:15 AM

Integrating Cardiac Mechanics into Daily Routine B. Haluska

9:15 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

PC How to... - Oregon Ballroom 201

Chairs: V. Allada, W. Lai

8:00 AM - 8:20 AM

Assess Coronary Arteries in Kawasaki Disease C. Altman

8:20 AM - 8:40 AM

Acquire a Perfect 3D Image of a Valve D. Roberson

8:40 AM - 9:00 AM

Assess Vascular Health with Cardiac Ultrasound S. Tierney

9:00 AM - 9:20 AM

Use Echo to Assess Patients on Mechanical Support
S. Natarajan

9:20 AM - 9:30 AM

Question and Answer

TUESDAY, JUNE 24, 2014

8:00 AM - 9:30 AM

S Clash of the Titans II: Debates on Current Topics in Cardiovascular Imaging - Portland Ballroom

Chairs: A. Pearlman, P. Pellikka

8:00 AM - 8:15 AM

Measurement of Dyssynchrony: Still Relevant, Still Helpful
J. Gorcsan

8:15 AM - 8:30 AM

Measurement of Dyssynchrony: Incremental Value is Fading Fast
S. Wieggers

8:30 AM - 8:45 AM

Competency Training in Echocardiography: Special Competency in Echo is an Archaic Idea in the Era of Point of Care Echo
A. Labovitz

8:45 AM - 9:00 AM

Competency Training in Echocardiography: Special Competency in Echo is Vital for Quality
J. Seward

9:00 AM - 9:15 AM

Echo in Adult Congenital Heart Disease: All Echocardiographers Should Have this Skill
E. Foster

9:15 AM - 9:30 AM

Echo in Adult Congenital Heart Disease: Leave it to the Experts
M. King

8:00 AM - 9:30 AM

S Multimodality Imaging in Ischemic Heart Disease - Oregon Ballroom 203

Chairs: H. Becher, M. Garcia

8:00 AM - 8:15 AM

Flow-Function Relationships and Their Relevance in Stress Testing
S. Sawada

8:15 AM - 8:30 AM

Point of Care Echo in the Identification of Ischemia
M. Quiñones

8:30 AM - 8:45 AM

Options for Myocardial Perfusion Imaging
S. Mulvagh

8:45 AM - 9:00 AM

Myocardial Viability - Is the Concept Still Alive?

9:00 AM - 9:15 AM

Options for Assessing Scar
M. Garcia

9:15 AM - 9:30 AM

Question and Answer

8:00 AM - 9:30 AM

S Critical Role of Echo in Hypertrophic Cardiomyopathy - Oregon Ballroom 202

Chairs: J. Estep, T. Mortemore

8:00 AM - 8:15 AM

Echo Features of Hypertrophic Cardiomyopathy
H. Rakowski

8:15 AM - 8:30 AM

New Roles for Echo in HCM: Stress, Strain
M. Desai

8:30 AM - 8:45 AM

The Genotype-Phenotype Relationship
M. Desai

8:45 AM - 9:00 AM

Complementary Role of MRI and CT
M. Shapiro

9:00 AM - 9:15 AM

Echo in Guiding HCM Therapy
W. Stewart

9:15 AM - 9:30 AM

Question and Answer

10:00 AM - 11:30 AM

E Tailored Imaging Approaches to Better Understand ACHD - Oregon Ballroom 204

Chairs: J. Kreeger, S. Nay

10:00 AM - 10:15 AM

Transposition of the Great Arteries
M. Wasserman

10:15 AM - 10:30 AM

Atrial Switch Procedures
R. McDonald

10:30 AM - 10:45 AM

Truncus Arteriosus
R. Lindquist

10:45 AM - 11:00 AM

Anomalous Pulmonary Venous Connection
H. Ko

11:00 AM - 11:15 AM

Double Inlets and Outlets
C. Marcella

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

PC R Pediatric Oral Abstracts - Oregon Ballroom 201

Chairs: A. Powell, C. Altman

10:00 AM - 10:15 AM

PC-O1: Comparison of Echocardiographic and Invasive Measurements of Diastolic Function in Infants with Single Ventricle Physiology: A Report from the Pediatric Heart Network Infant Single Ventricle Trial
S. Goudar

10:15 AM - 10:30 AM

PC-O2: Pocket Echocardiography System for Detection of Patent Ductus Arteriosus in Neonates
R. Murgas Torrazza

10:30 AM - 10:45 AM

PC-O3: Three-Dimensional Rapid Prototyping of Congenital Heart Defects from Echocardiographic Source Images: Feasibility and Accuracy
L. Olivieri

10:45 AM - 11:00 AM

PC-O4: Alteration of Cardiac Deformation in Acute Rejection in Pediatric Heart Transplant Recipients
N. Chanana

11:00 AM - 11:15 AM

PC-O5: 3D Echocardiographic Predictors of Mitral Valve Reconstruction for Congenital Mitral Valve Disease
N. Lang

11:15 AM - 11:30 AM

PC-O6: A Comprehensive Data Collection Tool to Assess Specific Workload Components for Pediatric Sonographers in a Tertiary Care Academic Center
B. Wright

10:00 AM - 11:30 AM

S Echocardiographic Features of Uncommon Systemic Diseases - Oregon Ballroom 202

Chairs: *M. St. John Sutton, R. Davidoff*

10:00 AM - 10:15 AM

Hypereosinophilic Diseases *J. Mohan*

10:15 AM - 10:30 AM

Amyloidosis *M. Grogan*

10:30 AM - 10:45 AM

Non-Amyloid Infiltrative: Fabry's, Freidrich's Ataxia
J. Mangion

10:45 AM - 11:00 AM

Lupus and Other Autoimmune Diseases *P. Nihoyannopoulos*

11:00 AM - 11:15 AM

Sarcoidosis *V. Rigolin*

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

S Quality Improvement in the Echo Lab -

Oregon Ballroom 203

Chairs: *M. Bremer, M. Main*

10:00 AM - 10:15 AM

Appropriate Use Criteria and Clinical Practice Guidelines:
Where Do They Intersect? *P. Douglas*

10:15 AM - 10:30 AM

The Impact of Quality Improvement Initiatives *M. Picard*

10:30 AM - 10:45 AM

Appropriate Use Criteria *R. Stainback*

10:45 AM - 11:00 AM

Quality Metrics In Clinical Echo and Research *R. Ward*

11:00 AM - 11:15 AM

What is the Sonographers Role in Quality Assurance
M. Bremer

11:15 AM - 11:30 AM

Question and Answer

10:00 AM - 11:30 AM

S Prosthetic Valve Function and Dysfunction -

Portland Ballroom

Chairs: *F. Miller, H. Nesser*

10:00 AM - 10:15 AM

The Complete Prosthetic Valve Function - A Guideline-Based
Approach *W. Zoghbi*

10:15 AM - 10:30 AM

Detecting Early Prosthetic Dysfunction in the OR *S. Mankad*

10:30 AM - 10:45 AM

Prosthetic Valve Dysfunction - Common and Uncommon
Presentations *G. Pressman*

10:45 AM - 11:00 AM

3D Echo in Prosthetic Valve Evaluation - Luxury or Necessity?
E. Gill

11:00 AM - 11:15 AM

Patient-Prosthesis Match and Mismatch *R. Hahn*

11:15 AM - 11:30 AM

Question and Answer

1:00 PM - 2:30 PM

E Advanced Practice of Stress Echo -

Oregon Ballroom 204

Chairs: *C. Luoma, M. Orsinelli*

1:00 PM - 1:15 PM

The Physiologic Response of the Ventricle to Exercise
J. Marshall

1:15 PM - 1:30 PM

Choosing the Best Stressor and Imaging Tests *S. Stenger*

1:30 PM - 1:45 PM

Hemodynamic Assessment of HOCM and MR *K. Radigan*

1:45 PM - 2:00 PM

Low Gradient AS *E. Shea*

2:00 PM - 2:15 PM

Case Studies to Advance Your Skill *H. Diglio*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

PC Controversies in Pediatric Echocardiography -

Oregon Ballroom 201

Chairs: *P. Frommelt, B. Soriano*

1:00 PM - 1:15 PM

Debate 1: Pro-Echocardiography Can Reliably Diagnose
Heart Transplant Rejection *A. Younoszai*

1:15 PM - 1:30 PM

Debate 1: Con-Echocardiography Can Reliably Diagnose
Heart Transplant Rejection *M. Puchalski*

1:30 PM - 1:45 PM

Debate 2: Pro-All Pediatric Labs Should be Accredited
C. Fleishman

1:45 PM - 2:00 PM

Debate 2: Con-All Pediatric Labs Should be Accredited
G. Shirali

2:00 PM - 2:15 PM

Debate 3: Pro-Echocardiographic Strain Measurements
Should be Performed in All Pediatric Patients at Risk for
Systolic Dysfunction *T. Tacy*

2:15 PM - 2:30 PM

Debate 3: Con-Echocardiographic Strain Measurements
Should be Performed in All Pediatric Patients at Risk for
Systolic Dysfunction *A. Dragulescu*

TUESDAY, JUNE 24, 2014

1:00 PM - 2:30 PM

S R Highlights of the 25th Scientific Sessions - What you Might Have Missed - Portland Ballroom

Chairs: R. Hahn, R. Grimm

1:00 PM - 1:15 PM

3D and Novel Technology *R. Hahn*

1:15 PM - 1:30 PM

Myocardial Imaging *R. Grimm*

1:30 PM - 1:45 PM

Vascular Imaging *N. Hamburg*

1:45 PM - 2:00 PM

Pediatric Echo *A. Powell*

2:00 PM - 2:15 PM

Valve Disease *M. Swaminathan*

2:15 PM - 2:30 PM

Outcomes and Policy *S. Mankad*

1:00 PM - 2:30 PM

S Echo in Heart Failure - Oregon Ballroom 203

Chairs: S. Sengutpa, V. Delgado

1:00 PM - 1:15 PM

Role of Echocardiography for Diagnosis: Beyond LVEF

S. Litwin

1:15 PM - 1:30 PM

Role for 3D Echo in Heart Failure *V. Mor-Avi*

1:30 PM - 1:45 PM

Diastolic Function Evaluation in Heart Failure *R. Troughton*

1:45 PM - 2:00 PM

Incorporating Myocardial Mechanics *J. Voigt*

2:00 PM - 2:15 PM

Echo in Left Ventricular Assist Devices *J. Estep*

2:15 PM - 2:30 PM

Question and Answer

1:00 PM - 2:30 PM

S Three-Dimensional Echocardiography for Valvular Heart Disease - Oregon Ballroom 202

Chairs: L. Badano, S. Little

1:00 PM - 1:15 PM

Integration of 3D Valve Assessment into Routine Practice

J. Hung

1:15 PM - 1:30 PM

Unique Insight Into Valve Morphometry *S. Little*

1:30 PM - 1:45 PM

Unique Insight Into Assessing Valve Function *R. Siegel*

1:45 PM - 2:00 PM

Essential Component for Structural Heart Disease

Interventions *M. Monaghan*

2:00 PM - 2:15 PM

New 3D Technology and Approaches *W. Tsang*

2:15 PM - 2:30 PM

Question and Answer

3:00 PM - 4:30 PM

PC Adult Congenital Heart Disease: Imaging That Impacts Management - Oregon Ballroom 201

Chairs: J. Simpson, S. Siu

3:00 PM - 3:20 PM

Is That Atrial Septal Defect Suitable for Device Closure?

J. Simpson

3:20 PM - 3:40 PM

Is My Patient a Candidate for Percutaneous Pulmonary Valve Replacement? *K. Hor*

3:40 PM - 4:00 PM

Dilated Right Ventricle: Where's the Shunt? *A. Valente*

4:00 PM - 4:20 PM

Can that Congenitally Abnormal Aortic Valve be Repaired?

K. Stern

4:20 PM - 4:30 PM

Question and Answer

3:00 PM - 4:30 PM

S Putting Experience to Work: Challenging Cases from Past Presidents - Portland Ballroom

Chairs: H. Feigenbaum, J. Kisslo

3:00 PM - 3:15 PM

No Wonder You're Dyspneic *J. Gardin*

3:15 PM - 3:30 PM

Things Are Seldom What They Seem *R. Kerber*

3:30 PM - 3:45 PM

Vexing Valves *R. Martin*

3:45 PM - 4:00 PM

Masses of Masses *B. Khandheria*

4:00 PM - 4:15 PM

3D Wonderland *J. Kisslo*

4:15 PM - 4:30 PM

Hemodynamic Hardship *W. Zoghbi*

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JULY

Argentina Congress of Echocardiography and Cardiovascular Images

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AUGUST

EchoNagpur 2014

August 8-10, 2014 | Nagpur, India

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OCTOBER

3rd Annual Echo Florida

October 12-14, 2014 | Walt Disney World®, FL

Preconferences available on October 11

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NOVEMBER

Point of Care Ultrasound Seminar: Lung & Pleural Ultrasonography

November 15-16, 2014 Sarasota, FL

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2015 Courses

JANUARY

25th Annual Echo Hawaii

January 19-23, 2015 | Kohala Coast, Big Island, HI

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FEBRUARY

28th Annual State-of-the-Art Echocardiography

February 22-24, 2015 | Scottsdale, AZ

Preconferences available February 20-21

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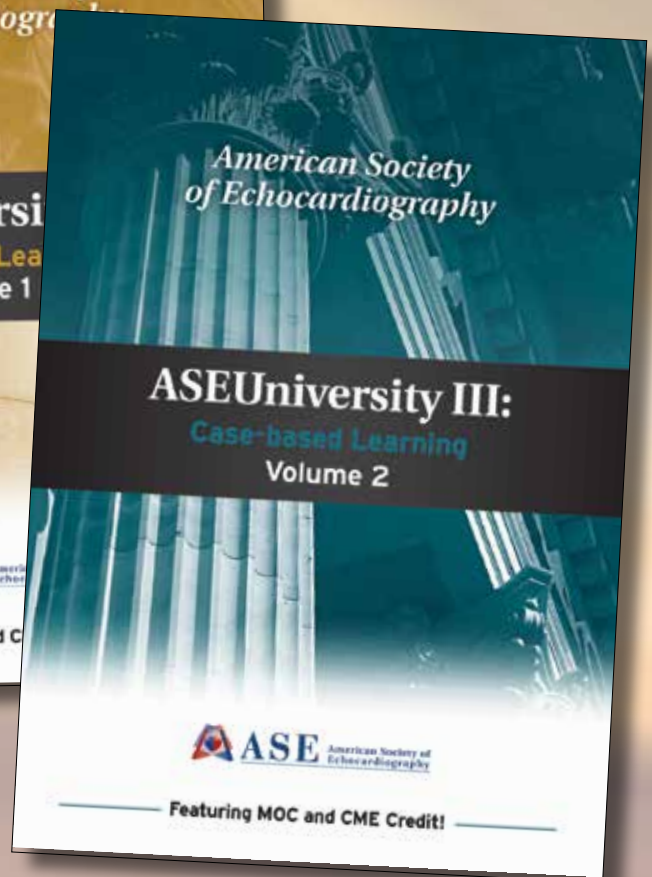
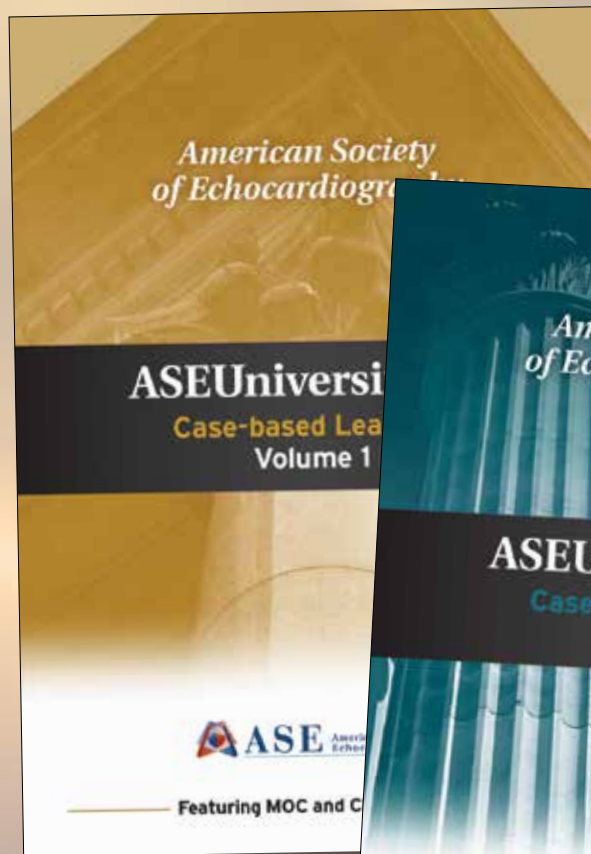
Topics covered include:

Volume 1

- Artifacts
- Cardiac masses
- Cardiomyopathies
- Congenital heart disease
- Coronary artery disease
- Diastolic function
- Doppler
- New technology
- Pericardial disease
- Stress echocardiography
- Valvular heart disease
- Ventricular size and function

Volume 2

- Aortic regurgitation
- Cardiomyopathies
- Closure devices/device placement
- Congenital heart disease
- CRT
- Doppler
- Endocarditis
- Image optimization
- Mitral stenosis
- Stress echocardiography



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NETWORKING OPPORTUNITIES & SPECIAL EVENTS

SCIENCE & TECHNOLOGY THEATER

Exhibit & Poster Hall, Level 1

New for 2014, the Science & Technology Theater will be located in the Exhibit & Poster Hall. Last year, these events were packed with interested professionals wanting to find out the latest information from an industry perspective. Lunch is provided by ASE and is included in your registration fee, but space and boxed lunches are on a first-come, first-serve basis. Industry-supported symposia sessions are independently planned and are not a part of the official ASE 25th 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 from ASE.

Science & Technology Theater Schedule:

Saturday, June 21

11:30 am - 1:00 pm

Modern Day Contrast Themes, presented by Lantheus Medical Imaging, Inc.

Sunday, June 22

11:45 am - 1:15 pm

Silver and Gold: Celebrating Echo's Past 25 Years, Looking to the Future, presented by Philips Healthcare

Monday, June 23

11:45 am - 1:15 pm

Change Your View: Enhance Your Echocardiography Images, presented by Bracco Diagnostics Inc.

Tuesday, June 24

11:30 am - 1:00 pm

Mitral Regurgitation - Innovations and Diagnosis in Management of Patients With Mitral Regurgitation, presented by Abbott Vascular

FRIDAY, JUNE 20

Maintenance of Certification Session (MOC).....1:30 pm - 5:00 pm

Oregon Ballroom 204, Level 2

To demonstrate a public commitment to remain highly skilled and knowledgeable throughout their careers, medical professionals must satisfy the evolving requirements for Board Certification and MOC.

ABIM-certified, expert physicians will join fellow participants to discuss and identify the most appropriate answers to case-based questions. Participants will be able to claim 10 ABIM MOC points towards ABIM's medical knowledge self assessment MOC requirements online after the course. Separate registration required.

Early Career

and Fellow Members Reception.....6:00 pm - 8:00 pm

Punch Bowl Social, 240 SW Morrison St., Portland

The ASE Membership Committee and Board of Directors invites you to join other early career and fellow members of ASE for drinks, food and some fun at Punch Bowl Social. Located in Pioneer Place, on the Max Line at the 2nd & Morrison stop. **Don't miss it!**

ASE Foundation Healing Hearts 5K Glow Walk/Run.....9:00 pm

Start/finish line located at:

Portland World Trade Center

25 SW Salmon Street, Two World Trade Center

On-site Registration and Packet Pick-up.....8:00 pm

Race Begins.....9:00 pm

As the sun goes down, light up the night sky at the ASE Foundation Healing Hearts 5K Glow Walk/Run on Friday, June 20. The event will serve as the unofficial kick off to the 25th Annual Scientific Sessions! Event registrants will receive a tee-shirt, glow sticks, and complimentary refreshments at the Foundation After-Party. Proceeds from the 5K Glow Walk/Run will be allocated to initiatives that support the improvement of cardiac care, a cause we can all feel "head over heels" about! Visit the ASE Foundation booth on Level 1 outside of the Exhibit & Poster Hall for more information.

SATURDAY, JUNE 21

Clash of the Titans I: Debates on Current Topics in Cardiovascular Imaging.....3:00 pm - 4:30 pm

Portland Ballroom, Level 2

Join ASE Past Presidents Douglas, Kaul, Lang, Picard, Rakowski and Weyman with noted lecturers Budoff and Pandian as they wrestle over tough questions. Watch as they debate if 3D Echo is (in) dispensible and if stress echo is even needed in evaluation of chest pain. Have you wondered if hand-held echo should replace the physical exam? Don't miss this sure to be entertaining and thought provoking session.

President's Reception.....4:30 pm - 6:30 pm

Exhibit & Poster Hall, Level 1

All attendees are invited to celebrate ASE 2014 at the President's Reception, hosted by ASE President, Benjamin Byrd III, 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 from many stations throughout the hall. Admission is included in your registration fee and guest tickets can be purchased during the registration process.

ASE Foundation 5th Annual

Research Awards Gala.....7:00 pm - 11:00 pm

The Nines, 525 SW Morrison St.

Join the Foundation for a masquerade Gala featuring dance, music, food, and entertainment! Funds from Gala tickets will go to the continuation of research and discovery in the field of echocardiography. Additionally, a portion of each ticket sold is U.S. tax deductible and counts toward the Foundation's Annual Appeal. Tickets are required for this event and are not sold onsite. To celebrate the masquerade theme of the Gala, attendees can purchase masks at the Foundation booth for a small price. For more information about the Gala, please visit the ASE Foundation booth, located outside of the Exhibit & Poster Hall on Level 1.

NETWORKING OPPORTUNITIES & SPECIAL EVENTS

SUNDAY, JUNE 22

25th Annual Edler Lecture.....8:00 am - 9:30 am

Portland Ballroom, Level 2

ASE Past President, Patricia Pellikka, MD, FASE, will present her lecture, "Echocardiography in an Era of Multimodality Imaging."

Chalk Talks.....9:30 am - 10:15 am & 2:45 pm - 3:30 pm

Exhibit & Poster Hall, Level 1

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. Roberto Lang will discuss 3D and Strain. The afternoon break will feature Dr. William Zoghbi discussing Valve Hemodynamic Measurements.

Innovation in Medicine: Past, Present and Future.....5:10 pm - 6:00 pm

Portland Ballroom, Level 2

Join world-renowned physician, Albert Starr, as he shares his unique experience of how innovation was applied to change the course of patient care over the past 50 years.

Member Reception.....6:00 pm - 7:00 pm

Oregon Convention Center Plaza

All attendees are invited to this complimentary welcome reception, only steps from your educational sessions. Enjoy beverages and hors d'oeuvres while connecting with colleagues and friends.

The Taste of Portland.....7:00 pm - 12:00 am

Leftbank Annex, 101 N. Weidler St.

The Willamette Valley Society of Echocardiography, in conjunction with the ASE Foundation, presents a networking event that will allow you to experience the culture of Portland through local food and drink, while also supporting educational scholarships, research awards, and travel grants. Tickets to the Taste of Portland event are \$35 and include hors d'oeuvres and two drink tickets, with additional beverages provided at a discounted rate. For tickets or more information, visit the Registration desk, located on Level 2 of the Convention Center.

MONDAY, JUNE 23

Arthur E. Weyman Young Investigator's Award Competition and 15th Annual Feigenbaum Lecture.....8:00 am - 9:30 am

Portland Ballroom, Level 2

Luc Mertens, MD, FASE, of the University of Toronto has been named this year's Annual Feigenbaum Lecturer. ASE is proud to recognize Dr. Mertens' significant contributions to research in the field of echocardiography and his potential to continue at a high level of achievement. Dr. Mertens will present his lecture entitled, "We Are Our History: Cardiac Adaptations to Childhood Disease and Implications for Adult Life," at this year's Scientific Sessions.

Chalk Talks9:30 am - 10:15 am & 2:45 pm - 3:30 pm

Exhibit & Poster Hall, Level 1

Don't miss the opportunity to get your clinical questions answered by expert faculty. During the morning break, Dr. Thomas Porter will be available to answer all of your questions about Coronary Artery Disease and Ischemia. The afternoon break will be dedicated to Measuring Diastolic Function with Dr. Jae Oh.

ASE Foundation Raffle Winner Drawing.....4:00 pm

ASE Foundation Booth, Level 1

Win a free hotel night from the ASE Foundation! To enter your name in the raffle, stop by the ASE Foundation booth, located outside of the Exhibit & Poster Hall on Level 1. (Certain limitations apply, see ASE Foundation booth for more details.)

Echo Jeopardy.....5:00 pm - 6:30 pm

Science & Technology Theater, Level 1

Join hosts John Gorcsan III, MD, FASE and Sunil Mankad, MD, FASE, as they moderate this year's competition. Teams will test their knowledge against their peers as they compete for the ultimate bragging rights. Always a crowd-pleaser, this event starts with a "secret" theme—plan to be there to witness the excitement.

This year's team line-up:

- Deborah Agler and Michael Picard
- Sharon Mulvagh and Arthur Labovitz
- Patrizio Lancellotti and Petros Nihoyannopoulos

TUESDAY, JUNE 23

Clash of the Titans II: Debates on Current Topics in Cardiovascular Imaging.....8:00 am - 9:30 am

Portland Ballroom, Level 2

The second part of this popular debate session features ASE Past Presidents Pearlman and Pellikka along with notable faculty, Foster, Gorcsan, King, Labovitz, Seward and Wiegers as they battle it out on the main stage. Is there still a need to demonstrate special competency in an era of hand held echo? How do we prove the value of echo in the current healthcare environment? These are just a few of the controversial topics to be debated in this session.

Putting Experience to Work: Challenging Cases from Past Presidents.....3:00 pm - 4:30 pm

Portland Ballroom, Level 2

Don't miss the opportunity to see the cases that have stumped even the masters. ASE's Past Presidents, Feigenbaum, Gardin, Kerber, Khandheria, Kisslo, Martin and Zoghbi will spend this session sharing some of their toughest cases, including Vexing Valves, 3D Wonderland and Hemodynamics Hardships.

SPECIAL AWARDS

2014 EDLER LECTURER



Patricia A. Pellikka, MD, FASE of Mayo Clinic, Rochester, MN, will present the 25th Annual Edler Lecture. A Past President of the ASE, Dr. Pellikka is currently the Co-Director of the Echocardiography Laboratory at the Mayo Clinic. Created in 1990, the annual Edler Lecture honors the founder of echocardiography, Dr. Inge Edler. Dr.

Pellikka will present her lecture titled, *"Echocardiography in an Era of Multimodality Imaging,"* during the ASE Business Meeting and Awards Presentations, Sunday, June 22, which will be held from 8:00 am -9:30 am in the Portland Ballroom.

2014 FEIGENBAUM LECTURER



Luc Mertens, MD, PhD, FASE of The Hospital for Sick Children, Toronto, ON, Canada, has been named the 15th 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. Mertens.

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. Mertens will present his lecture entitled, "We Are Our History: Cardiac Adaptations to Childhood Disease and Implications for Adult Life," during the 2014 Arthur E. Weyman Young Investigator's Award competition and Annual Feigenbaum Lecture from 8:00 am - 9:30 am, Monday, June 23 in the Portland Ballroom.

LIFETIME ACHIEVEMENT AWARD



Nelson B. Schiller, MD, has been named as the 2014 Lifetime Achievement recipient. Dr. Schiller is Professor of Medicine and Anesthesia at the University of California, San Francisco, CA.

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.

Dr. Schiller is an innovative clinical researcher recognized worldwide for his contributions to echocardiography. His clinical skills in echocardiography and clinical cardiology are recognized by all who have worked with him over 35 years at the University of California, San Francisco. His teaching and mentorship have launched the careers of many highly successful UCSF fellows, impacting the field of echocardiography and cardiology internationally. His service to ASE stretches over more than 30 years. Dr. Schiller clearly epitomizes excellence in the field of echocardiography.

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, **Thomas Ryan, MD, FASE, MBA, from The Ohio State University Heart and Vascular Center, Columbus, OH**. Dr. Ryan 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, Chair of the ASEF Foundation Task Force, Nominating Committee, Advocacy and Education committees.

RICHARD POPP EXCELLENCE IN TEACHING AWARD



Mikel D. Smith, MD, FASE from the University of Kentucky Medical Center Gill Heart Institute, Lexington, KY, has been named the 14th annual recipient of the Richard Popp Excellence in Teaching Award. Dr. Smith was nominated by his peers for this 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.

SPECIAL AWARDS

OUTSTANDING ACHIEVEMENT IN PERIOPERATIVE ECHOCARDIOGRAPHY



Daniel M. Thys, MD, St. Luke's-Roosevelt Hospital, Columbia University, New York, NY, has been named the 2nd 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.

EXCELLENCE IN TEACHING IN PEDIATRICS AWARD



Tal Geva, MD, FASE, from Boston Children's Hospital, Boston, MA, has been named the 5th recipient of the ASE Council on Pediatric & Congenital Heart Disease Excellence in Teaching in Pediatrics Award. Established in 2005, this biennial award is open to either a sonographer or physician member for his/her exceptional commitment and skill in teaching pediatric

echocardiography, who has been a mentor to students and serves as a role model for the profession, and who fosters a sense of clinical excellence and research investigation in the individuals they teach.

CARDIOVASCULAR SONOGRAPHER DISTINGUISHED TEACHER AWARD



S. Michelle Bierig, MPH, RDMS, RCS, RDMS, CPHQ, FASE, from Lee Memorial Health System, Ft. Myers, FL, has been named the 12th recipient of the Cardiovascular Sonographer Distinguished Teacher Award.

The award recognizes an active sonographer instructor who is attentive to cardiovascular sonography professional values and who exhibits values of leadership and dedication to the field of cardiovascular ultrasound for past, current and future cardiac sonographers.

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 Task Force, in conjunction with the ASE Executive Committee, nominated three individuals to receive an "Honorary FASE" designation in 2014. This honor was 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. The 2014 honorees are:

Hiroshi Ito, MD, PhD, FASE

Okayama University
Tsushima-Naka, Japan

Jagdish C. Mohan, MD, DM, FASE

Fortis Hospital, Shalimar Bagh
New Delhi, Delhi, India

Yun Zhang, MD, PhD, FASE

Shandong University Qilu Hospital
Shandong, People's Republic of China

2014 ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION FINALISTS*

ASE is pleased to recognize the finalists of the 2014 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. Four investigators will present their research during the 2014 Arthur E. Weyman YIA Competition and Annual Feigenbaum Lecture plenary from 8:00 am - 9:30 am on Monday, June 23 in the Portland Ballroom. The winner will be selected by a panel of echo experts following the presentations.

Timothy C. Tan, MD, PhD, Massachusetts General Hospital, Boston, MA - "Left Atrial Cross Sectional Area, a Marker of Left Atrial Shape, is a Novel Risk Factor for Cardioembolic Stroke and Recurrence of Ischemic Stroke"

Shahryar M. Chowdhury, MD, Medical University of South Carolina, Charleston, SC - "Changes in Speckle-Tracking Echocardiographic Measures of Right Ventricular Function Correlate with Changes in Measures of Exercise Function after Percutaneous Implantation of the Edwards SAPIEN Transcatheter Heart Valve in the Pulmonary Position"

Chi Young Shim, MD, PhD, Oregon Health & Science University, Portland, OR - "Platelet Attachment to Vascular Endothelium Occurs in Both Early and Late-State Atherosclerosis Secondary to Dysregulation of Von Willebrand Factor: Evaluation by Contrast Ultrasound Molecular Imaging"

Kotoko Matsui, MD, Juntendo University School of Medicine, Tokyo, Japan - "Mechanism of Early Diastolic Intraventricular Pressure Gradients During Exercise"

SPECIAL AWARDS

2014 SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION FINALISTS*

The ASE Foundation is pleased to recognize the finalists of the 2014 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 Monday, June 23 in the Exhibit & Poster Hall.

Megan Yamat, RDCS, RCS, University of Chicago Hospital, Chicago, IL - "Which Tricuspid Valve Leaflets are We Seeing in Standard 3D Echocardiographic Views?"

Angela M. Morgan, PGDCU, MHSc, Capital & Coast District Health Board, Wellington, New Zealand - "Global Longitudinal Strain Differentiates Right Ventricular Pacing Lead Positions"

Leah M. Wright, BsC, Menzies Research Institute, University Tasmania, Hobart, Australia - "Right Ventricular Free Wall Strain can Discriminate Acute Pressure Overload from Chronic Conditions"

Weimin (Allen) He, RDCS, Mazankowski Heart Institute, University of Alberta, Edmonton, AB, Canada - "Can We Skip LV Ejection Fraction Measurements in the Surveillance of Patients Undergoing Cancer Treatment with Cardiotoxic Drugs? Results from the CORE Registry"

2014 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 25th 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.

Dragos Alexandru, MD, CHSLI St. Francis Hospital, Cedarhurst, NY

Walter L. Beard, MD, University of Mississippi Medical Center, Jackson, MS

Nikunj Bhatt, MD, Walter Reed National Military Medical Center, Bethesda, MD

Christopher Bugnitz, MD, Nationwide Children's Hospital, Columbus, OH

Nitin Chanana, MD, University of Utah, Salt Lake City, UT

Adam James, BA, BAO, MB, BCh, MRCPI, LRCSI, Rotunda Hospital, Dublin, Ireland

Se Yong Jang, MD, Kyungpook National University Hospital, Daegu, Republic of Korea

Sua Kim, MD, Korea University Medical Center, Seoul, Seongbuk-Gu, Republic of Korea

Diego Lara, MD, MPH, Baylor College of Medicine, Houston, TX

Shuai Liang, Division of Cardiology Shimane University Faculty of Medicine, Izumo, Shimane, Japan

Lindsay Mills, MD, University of Alberta - Stollery Children's Hospital, Edmonton, Alberta, Canada

Roberto J. Murgas Torrazza, MD, University of Florida, Panama, Panama

Aarti A. Patel, MD, University of South Florida, Tampa, FL

Nishath Quader, MD, Northwestern University, Chicago, IL

Ravi Raj, MBBS, MD, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India

Makoto Saito, MD, Menzies Research Institute Tasmania, Hobart, Australia

Irsa Shoiab, BS, Children's Hospital & Medical Center/University of Nebraska College of Medicine, Omaha, NE

Juefei Wu, MD, PhD, FASE, Nanfang Hospital, Southern Medical University, Guangzhou, Guangdong, China

Li-Tan Yang, MD, National Cheng Kung University Hospital Dou-Liou Branch, Douliu City, Yunlin County, Taiwan, Republic of China

Jeffrey Yourshaw, MD, Penn State Milton S. Hershey Medical Center, Hershey, PA

2014 TOMTEC INNOVATOR RESEARCH TRAVEL GRANT*

The ASE Foundation is pleased to recognize **Hiroyuki Iwano, MD, PhD**, from the University of Mississippi Medical Center in Jackson, MS as the recipient of the 2014 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. Iwano received \$2,000 to support his travel expenses.

ULTRAECHO, LTD. CARDIOVASCULAR SONOGRAPHER STUDENT TRAVEL GRANT*

This award, supported by a grant to the ASE Education and Research 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 2014 student travel grant has been awarded to **Donna Ly, Alvin Community College, Alvin, TX**. This award will be recognized during the Council on Cardiovascular Sonography Meeting and Awards Presentation, Monday, June 23, 3:30 pm - 5:00 pm in Oregon Ballroom 204.

SPECIAL AWARDS

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 Education and Research 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 2014 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 2014 scholarship award recipients will be recognized during ASE Awards Presentations, Announcements and Edler Lecture from 8:00 am - 9:30 am, Sunday, June 22 in the Portland Ballroom.

2014 RECIPIENTS OF THE ALAN D. WAGGONER STUDENT SCHOLARSHIP AWARDS*

Brittney Blicharz, Hoffman Heart & Vascular School of Cardiac Ultrasound, Hartford, CT

Jerrid Brabender, University of Wisconsin-Milwaukee, Milwaukee, WI

Alicia Brooks, South Hills Business & Technology, State College, PA

Bryan Dake, Bellevue College Diagnostic Ultrasound, Bellevue, WA

Yanfeng Ding, Sanford Brown College, Dallas, TX

Sean Hackett, John Hopkins Hospital School of Diagnostic Sonography, Baltimore, MD

Delanie Sapelli, Hoffman Heart & Vascular School of Cardiac Ultrasound, Hartford, CT

Nicole Soellner, John Hopkins Hospital School of Diagnostic Sonography, Baltimore, MD

McKenzie Watzka, Mayo Clinic, Cardiac DMS, Rochester, MN

Adam Wood, South Hills Business & Technology, State College, PA

FEIGENBAUM CARDIOVASCULAR SONOGRAPHER STUDENT TRAVEL GRANT*

This award is supported by a grant to the ASE Education and Research 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 annual Scientific Sessions or other ASE sponsored educational courses. The 2014 student travel grant has been awarded to **Michelle Garza, LSU Health Science Center, New Orleans, LA**. This award will be recognized during the Council on Cardiovascular Sonography Meeting and Awards Presentation, Monday, June 23, 3:30 pm - 5:00 pm in Oregon Ballroom 204.

2014 COUNCIL TRAVEL GRANT AWARDS*

The ASE Foundation sponsors Council Travel Grant Awards to fellows, trainees and sonographers to fund their attendance at the ASE 25th Annual 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 and to recruit enthusiastic new members to the Council membership. 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. Each council put a call for applications out last fall, with a deadline at the end of February. For the Vascular, Pediatric and Perioperative Councils, the applications were sent to a travel grant committee comprised of council leadership, and selections were made electronically. The Council on Cardiovascular Sonography circulates applications and a ballot to all council board members for final selections.

COUNCIL ON PEDIATRIC AND CONGENITAL HEART DISEASE TRAVEL GRANT AWARD RECIPIENTS*

Heynric Grotenhuis, MD, PhD The Hospital for Sick Children Toronto, Ontario, Canada

Joy Johnson, MD University of Utah School of Medicine Salt Lake City, UT

COUNCIL ON VASCULAR ULTRASOUND TRAVEL GRANT AWARD RECIPIENTS*

Yogendra Kanthi, MD University of Michigan Health System Ann Arbor, MD

Hemantha Koduri, MD Cleveland Clinic Cleveland, OH

COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY TRAVEL GRANT AWARD RECIPIENTS*

John Anderson Dam, MD UCLA Health System Los Angeles, CA

Suzana Zorca, MD Brigham and Women's Hospital Boston, MA

COUNCIL ON CARDIOVASCULAR SONOGRAPHY TRAVEL GRANT AWARDS*

Colleen Gorczyca, RDCS University Hospital Case Medical Center Cleveland, OH

Kacy Sisco, RDCS Children's Hospital of Pittsburgh of UPMC Pittsburgh, PA



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*Supported by the ASE Education and Research Foundation

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ABSTRACTS TAB

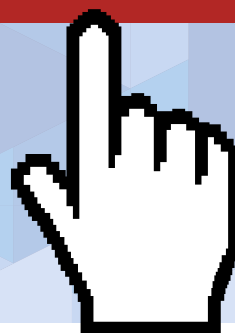
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The new ASCeXAM/ReASCE Online **PRACTICE EXAM SIMULATION**



The **ASCeXAM/ReASCE Online Practice Exam Simulation** is designed to prepare physicians for the National Board of Echocardiography's ASCeXAM or ReASCE certification examinations. Developed by renowned experts in the field of echocardiography, the test bank consists of 300 multiple choice questions containing over four hundred images and videos covering: the physical principles of cardiovascular ultrasound; valvular heart disease; ventricular size and function, coronary artery disease, and cardiomyopathies; congenital heart disease and fetal echocardiography; as well as cardiac masses, pericardial disease, myocardial contrast and the latest applications in echocardiography. M-mode, 2-Dimensional and Doppler echocardiography are also covered.

In addition to objective based questions, case studies are included to evaluate your knowledge of the field. After purchasing this exam simulation, you have access for thirteen weeks and are given the opportunity to take two simulated exams consisting of 150 questions each, assessing your skills and knowledge in all areas. You may repeat these exams a total of six times. The grading and feedback for all six attempts will be saved. In addition to an overall grade, a percentage breakdown of your incorrect and correct answers over the five categories will be provided for each attempt, allowing you to focus your study accordingly. Feedback includes explanations of the correct and incorrect answers, offering valuable instruction.

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ORIGINAL SCIENCE & CLINICAL CASES PRESENTATION SCHEDULE

SUNDAY, JUNE 22, 2014

R **CL** Case-Based Abstracts: The Best of Echo in Clinical Care Part I

Presented: 7:00 am – 8:00 am
Oregon Ballroom 201, Level 2 – Page 60

Topics
Cardiovascular Ultrasound Imaging in
Diagnosis, Clinical Decision-Making,
and Patient ManagementC1-01 through C1-05

R Poster Session 1 (P1)

Presented: 9:00 am – 4:00 pm
Exhibit & Poster Hall, Level 1 – Pages 62-76

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

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

Topics
Vascular DiseaseP1-01 through P1-10
Intraprocedural Echocardiography
(Operating Room and Interventional Lab)
/ TEEP1-11 through P1-18
Valvular Heart DiseaseP1-19 through P1-53
Ventricular Function / Myocardial
MechanicsP1-54 through P1-112
Contrast Echocardiography and
New Technology P1-113 through P1-129
Echocardiography in Arrhythmias /
Atrial Function P1-130 through P1-140
Echocardiography in Systemic Disease
(DM, HTN, Obesity, Cancer) /
Pericardial / Primary MyocardialP1-141 through P1-180

MONDAY, JUNE 23, 2014

R **CL** Case-Based Abstracts: The Best of Echo in Clinical Care Part II

Presented: 7:00 am – 8:00 am
Oregon Ballroom 201, Level 2 – Page 60

Topics
Cardiovascular Ultrasound Imaging in
Diagnosis, Clinical Decision-Making,
and Patient ManagementC2-01 through C2-05

R **S** 2014 Arthur E. Weyman Young Investigator's Award Competition

Presented: 8:00 am – 9:30 am
Portland Ballroom, Level 2 – Page 58

Topics
Echocardiography in Arrhythmias / Atrial Function.....YIA-1
Pediatric and Adult Congenital Heart Disease.....YIA-2
Contrast Echocardiography and New Technology.....YIA-3
Ventricular Function / Myocardial Mechanics.....YIA-4

R Poster Session 2 (P2)

Presented: 9:00 am – 4:00 pm
Exhibit & Poster Hall, Level 1 – Pages 77-90

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

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

Topics
Pediatric and Adult Congenital
Heart Disease.....P2-01 through P2-56
Outcomes / Quality / Practice Management
/ Comparative Effectiveness.....P2-57 through P2-100
3D Echocardiography.....P2-101 through P2-145
Ischemic Heart Disease.....P2-146 through P2-156
Doppler / Hemodynamics.....P2-157 through P2-176

R 2014 Sonographer Investigator's Award Competition

Presented: 12:00 pm – 1:00 pm
Exhibit & Poster Hall, Level 1 – Pages 58-59

Topics
3D Echocardiography
Ventricular Function /SIA-1
Myocardial Mechanics.....SIA-2 through SIA-4

TUESDAY, JUNE 24, 2014

R **PC** Pediatric Oral Abstracts

Presented: 10:00 am – 11:30 am
Oregon Ballroom 201, Level 2 – Page 61

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

2014 ABSTRACT GRADERS

ASE sincerely thanks the following volunteers for their time reviewing this year's original science and clinical case submissions.

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Director of Interventional Echocardiography, Center for Interventional Vascular Therapy, NewYork-Presbyterian Hospital/Columbia University Medical Center, New York, NY

Associate Professor of Clinical Medicine, Columbia College of Physicians and Surgeons, New York, NY

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Shubhika Srivastava, MD, FASE
Lissa Sugeng, MD, MPH, FASE
James D. Thomas, MD, FASE
Wendy Tsang, MD
Thomas Van Houten, MPH, RDCS, FASE
Alan D. Waggoner, MHS, RDCS
R. Parker Ward, MD, FASE
Kevin Wei, MD, FASE
Neil J. Weissman, MD, FASE
Gillian A. Whalley, PhD, FASE
Ronald H. Wharton, MD, FASE
Sandra A. Witt, RDCS, FASE
Anna Woo, MD, SM
Malissa J. Wood, MD, FASE
Luciana T. Young, MD, FASE
Xin Zeng, MD, RDCS, FASE
Karen G. Zimmerman, BS, RDCS, RVT, FASE

RESEARCH AWARD COMPETITIONS

R S 2014 ARTHUR E. WEYMAN YOUNG INVESTIGATOR'S AWARD COMPETITION (YIA)

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

Poster Presentations: Saturday, June 21 through Monday, June 23 in the Exhibit & Poster Hall, Level 1

Oral Presentations: Monday, June 23, 8:00 am – 9:30 am in Portland Ballroom, Level 2

Topics

Echocardiography in Arrhythmias / Atrial Function.....YIA-1
 Pediatric and Adult Congenital Heart Disease.....YIA-2
 Contrast Echocardiography and New Technology.....YIA-3
 Ventricular Function / Myocardial Mechanics.....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

Left Atrial Cross Sectional Area, a Marker of Left Atrial Shape, is a Novel Risk Factor for Cardioembolic Stroke and Recurrence of Ischemic Stroke

Timothy Tan, Octavio Pontes-Neto, Mark Handschumacher, Maria C. Nunes, Yong-Hyun Park, Victoria Piro, Yuan Jiao, Gyeong-Moon Kim, Johanna Helenius, Cashel O'Brien, Xin Zeng, Karen Furie, Hakan Ay, Judy Hung. Massachusetts General Hospital, Boston, MA

Presented by Timothy Tan

YIA-2

Changes in Speckle-Tracking Echocardiographic Measures of Right Ventricular Function Correlate with Changes in Measures of Exercise Function after Percutaneous Implantation of the Edwards SAPIEN Transcatheter Heart Valve in the Pulmonary Position

Shahryar M. Chowdhury¹, Ziyad M. Hijazi², John T. Fahey³, John F. Rhodes⁴, Saibal Kar⁵, Raj Makkar⁵, Michael Mullen⁶, Qi-Ling Cao², Kyle Bilhorn⁷, Lazar Mandinov⁷, Girish S. Shirali⁸. ¹Medical University of South Carolina, Charleston, SC; ²Rush University Medical Center, Chicago, IL; ³Yale-New Haven Hospital, New Haven, CT; ⁴Miami Children's Hospital, Miami, FL; ⁵Cedar Sinai Medical Center, Los Angeles, CA; ⁶The Heart Hospital, London, United Kingdom; ⁷Edwards Lifesciences, LLC, Irvine, CA; ⁸Children's Mercy Hospital, Kansas City, MO

Author Disclosures: Z. M. Hijazi – 2, 4 (Edwards Lifesciences, LLC), K. Bilhorn – 5 (Edwards Lifesciences, LLC), L. Mandinov – 5 (Edwards Lifesciences, LLC)

Presented by Shahryar M. Chowdhury

YIA-3

Platelet Attachment to Vascular Endothelium Occurs in Both Early and Late-Stage Atherosclerosis Secondary to Dysregulation of Von Willebrand Factor: Evaluation by Contrast Ultrasound Molecular Imaging

Chi Young Shim¹, Ya Ni Liu¹, Tami Atkinson¹, Mackenzie Treible¹, Aris Xie¹, Yue Qi¹, Ted Foster¹, Todd Belcik¹, Zaverio Ruggeri², Jose Lopez³, Jonathan R. Lindner¹. ¹Oregon Health & Science University, Portland, OR; ²Scripps Research Institute, La Jolla, CA; ³University of Washington, Portland, OR

Presented by Chi Young Shim

YIA-4

Mechanism of Early Diastolic Intraventricular Pressure Gradients During Exercise

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

Presented by Kotoko Matsui

R 2014 SONOGRAPHER INVESTIGATOR'S AWARD COMPETITION (SIA)

The ASE Foundation congratulates this year's finalists.

Poster Presentations: Saturday, June 21 through Monday, June 23 in the Exhibit & Poster Hall, Level 1

Moderated Poster Presentations: Monday, June 23, 12:00 pm – 1:00 pm in the Exhibit & Poster Hall, Level 1

Topics

3D Echocardiography.....SIA-1
 Ventricular Function /
 Myocardial Mechanics.....SIA-2 through 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

Which Tricuspid Valve Leaflets are We Seeing in Standard 2D Echocardiographic Views?

Megan Yamat, Karima Addetia, Victor Mor-Avi, Roberto Lang. University of Chicago Hospital, Chicago, IL

Author Disclosures: R. Lang – 1 (Philips)

Presented by Megan Yamat

RESEARCH AWARD COMPETITIONS

SIA-2

Global Longitudinal Strain Differentiates Right Ventricular Pacing Lead Positions

Angela M. Morgan¹, Scott Harding¹, Peter Larsen², Alexander Sasse¹. ¹Capital & Coast District Health Board, Wellington, New Zealand; ²Otago University of Wellington, Dunedin, New Zealand

Author Disclosures: A. Sasse - 1 (GE Healthcare)

Presented by Angela M. Morgan

SIA-3

Right Ventricular Free Wall Strain can Discriminate Acute Pressure Overload from Chronic Conditions

Leah M. Wright¹, Negishi Kazuaki¹, Nathan Dwyer², Thomas Marwick¹. ¹Menzies Research Institute, University Tasmania, Hobart, Australia; ²Royal Hobart Hospital, Hobart, Australia

Presented by Leah M. Wright

SIA-4

Can We Skip LV Ejection Fraction Measurements in the Surveillance of Patients Undergoing Cancer Treatment with Cardiotoxic Drugs? Results from the CORE Registry

Weimin (Allen) He¹, Eila Mirhadi¹, Eric Leung¹, Edith Pituskin², Ian Paterson¹, Jonathan Choy¹, Harald Becher¹. ¹Mazankowski Heart Institute in University of Alberta, Edmonton, AB, Canada; ²Cross Cancer Institute, Edmonton, AB, Canada

Author Disclosures: H. Becher - 2 (Accusphere, Bracco), 4 (Bracco)

Presented by Weimin (Allen) He

2013 EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING YOUNG INVESTIGATOR'S AWARD WINNER

Poster Presentation: Saturday, June 21 through Monday, June 23 in the Exhibit & Poster Hall, Level 1

Moderated Poster Presentation: Monday, June 23, 12:00 pm - 1:00 pm in the Exhibit & Poster Hall, Level 1

Topic

Ventricular Function / Myocardial Mechanics.....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

Regional Differences in Radial Function in a Closed Chest, Closed Pericardium Model of Acute Left Ventricular Afterload Increase

Maja Cikes¹, George R. Sutherland², Nina Jakus², Peter Haemers³, Jan D'hooge², Piet Claus². ¹University of Zagreb School of Medicine, Department of Cardiovascular Diseases, Zagreb, Croatia; ²Catholic University of Leuven, Department

of Cardiovascular Sciences, Division of Cardiovascular Imaging and Dynamics, Leuven, Belgium; ³Catholic University of Leuven, Department of Cardiovascular Diseases, Leuven, Belgium

Presented by Maja Cikes

2014 JAPANESE SOCIETY OF ECHOCARDIOGRAPHY YOUNG INVESTIGATOR'S AWARD WINNER

Poster Presentation: Saturday, June 21 through Monday, June 23 in the Exhibit & Poster Hall, Level 1

Moderated Poster Presentation: Monday, June 23, 12:00 pm - 1:00 pm in the Exhibit & Poster Hall, Level 1

Topic

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

Effects of Systolic Function and Hypertrophy on the Estimation of Left Ventricular Relaxation and Filling Pressure by Tissue Doppler Imaging: The First Multicenter Study in Japan

Masahiro Nakabachi, Division of Laboratory and Transfusion Medicine, Hokkaido University Hospital, Sapporo, Japan

Presented by Masahiro Nakabachi

CLINICAL CASES (CC)

SUNDAY, JUNE 22, 2014

CL R Case-Based Abstracts: The Best of Echo in Clinical Care Part I

Presented: 7:00 am – 8:00 am
Oregon Ballroom 201, Level 2

Topics

Cardiovascular Ultrasound Imaging in Diagnosis, Clinical Decision-Making, and Patient Management.....C1-01 through C1-05

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

Hidden Truth: Three Diagnostic Challenges of Pulmonary Artery Sling

David W. Jantzen, Gregory J. Ensing. University of Michigan, Ann Arbor, MI

C1-02

Even God Gets Things Backward: Tetralogy of Fallot with "Inverted" Pulmonary Valve

Matthew Bock, Khanh Nguyen, H. Helen Ko, Barry Love, Shubhika Srivastava. Icahn School of Medicine at Mount Sinai, New York, NY

C1-03

Large Left Ventricular Aneurysm Masquerading as Cardiomyopathy in the Fetus

Lindsay R. Freud. Boston Children's Hospital, Boston, MA

C1-04

Aortic to Right Ventricular Tunnel: Fetal and Postnatal Echocardiographic Findings

Anjali Chelliah, Wyman W. Lai. Columbia University Medical Center, New York, NY

C1-05

The Great Pretender: Left Coronary Artery Origin by Two Dimensional Imaging

Diego A. Lara, Keila N. Lopez. Baylor College of Medicine, Houston, TX

MONDAY, JUNE 23, 2014

CL R Case-Based Abstracts: The Best of Echo in Clinical Care Part II

Presented: 7:00 am – 8:00 am
Oregon Ballroom 201, Level 2

Topics

Cardiovascular Ultrasound Imaging in Diagnosis, Clinical Decision-Making, and Patient Management.....C2-01 through C2-05

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

Screwed: Iatrogenic Aortic Dissection after Spinal Stabilization

Lakshman Subrahmanyam¹, Robert L. McNamara¹, Pillai Saila², Lissa Sugeng¹, Lars Svensson³, John A. Elefteriades¹. ¹Yale University, New Haven, CT; ²Cleveland Clinic Foundation, Cleveland, OH; ³Cleveland Clinic, Cleveland, OH

C2-02

An Unusual Cause of Left Main Coronary Ischemia due to Multiple Large Aortic Papillary Fibroelastomas

Sadiya S. Khan¹, Tim S. Provias², Patricia Vassallo¹, Patrick McCarthy¹, Ranya Sweis¹. ¹Northwestern University Feinberg School of Medicine, Chicago, IL; ²Massachusetts General Hospital, Boston, MA

Author Disclosures: P. McCarthy – 2 (Edwards Lifesciences, LLC)

C2-03

An Unusual Case of Right Atrial Fibroma Causing Supravalvular Tricuspid Obstruction

Angele A. Mattoso, Rilson Moitinho, Vanessa Vc da Silva, Eduardo F. Tadeu. Santa Izabel Hospital, Salvador, Brazil

C2-04

Half-Heartedly Diagnosing a Peripartum Cardiomyopathy

Arash Seratnahaei, Vrinda Sardana, Douglas J. Schneider, Vincent L. Sorrell. University of Kentucky Medical Center, Lexington, KY

C2-05

Familial Transthyretin Amyloidotic Cardiomyopathy Masquerading as Hypertrophic Obstructive Cardiomyopathy

April Peterson, Stephen Heitner, Jonathan Lindner. Oregon Health and Science University, Portland, OR

TUESDAY, JUNE 24, 2014

Pediatric Oral Abstracts PC R

Presented: 10:00 am – 11:30 am

Oregon Ballroom 201, Level 2

Topics

Pediatric and Adult Congenital

Heart Disease.....PC-O1 through PC-O6

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-O1

Comparison of Echocardiographic and Invasive Measurements of Diastolic Function in Infants with Single Ventricle Physiology: A Report from the Pediatric Heart Network Infant Single Ventricle Trial

Suma P. Goudar¹, Victor Zak², Andrew M. Atz³, Karen Altmann⁴, Steven D. Colan⁵, Christine B. Falkensammer⁶, Mark K. Friedberg⁷, Michele Frommelt⁸, Kevin D. Hill⁹, Daphne T. Hsu¹⁰, Jami C. Levine⁵, Renee Margossian⁵, Christopher R. Mart¹¹, Joshua Sticka¹², Peter Shrader², Girish Shirali¹, for the Pediatric Heart Network Investigators¹³. ¹Ward Family Heart Center, Children's Mercy Hospital, Kansas City, MO; ²New England Research Institute, Watertown, MA; ³Medical University of South Carolina, Charleston, SC; ⁴Columbia University Medical Center, New York, NY; ⁵Boston Children's Hospital, Boston, MA; ⁶Children's Hospital Philadelphia, Philadelphia, PA; ⁷The Hospital for Sick Children, Toronto, ON, Canada; ⁸Children's Hospital of Wisconsin, Milwaukee, WI; ⁹Duke University Medical Center, Durham, NC; ¹⁰Children's Hospital at Montefiore, Bronx, NY; ¹¹Primary Children's Hospital, Salt Lake City, UT; ¹²Cincinnati Children's Hospital Medical Center, Cincinnati, OH; ¹³National Heart, Lung and Blood Institute, Bethesda, MD

PC-O2

Pocket Echocardiography System for Detection of Patent Ductus Arteriosus in Neonates

Roberto J. Murgas Torrazza, Arun Chandran, Jennifer Co-Vu, Curt DeGroff. University of Florida, Gainesville, FL

PC-O3

Three-Dimensional Rapid Prototyping of Congenital Heart Defects from Echocardiographic Source Images: Feasibility and Accuracy

Laura Olivieri¹, Axel Krieger², Dilip Nath³, James Jago⁴, Yue-Hin Loke¹, Peter Kim⁵, Craig Sable¹. ¹Children's National Medical Center, Washington, DC; ²Children's National Health System, Sheik Zayed Institute for Surgical Innovation, Washington, DC; ³Children's National Medical Center, Division of Cardiovascular Surgery, Washington, DC; ⁴Philips Healthcare, Seattle, WA; ⁵Children's National Medical Center, Sheik Zayed Institute for Surgical Innovation, Washington, DC

Author Disclosures: J. Jago – 5 (Philips Healthcare)

PC-O4

Alteration of Cardiac Deformation in Acute Rejection in Pediatric Heart Transplant Recipients

Nitin Chanana, Melanie D. Everitt, Hsin yi Weng, Dylan V. Miller, Shaji C. Menon. University of Utah, Salt Lake City, UT

PC-O5

3D Echocardiographic Predictors of Mitral Valve Reconstruction for Congenital Mitral Valve Disease

Nora Lang, Erin Krizman, Kimberlee Gauvreau, Alejandra Bueno, Patrick Myers, Christopher Baird, Sitaram Emani, Pedro del Nido, Gerald Marx. Boston Children's Hospital, Boston, MA

PC-O6

A Comprehensive Data Collection Tool to Assess Specific Workload Components for Pediatric Sonographers in a Tertiary Care Academic Center

Bonnie Wright¹, Marcia Bryant¹, Ritu Sachdeva², Laura Piao¹, Diana Ketchum¹, William L. Border². ¹Children's Healthcare of Atlanta, Atlanta, GA; ²Emory University School of Medicine, Atlanta, GA

POSTER SESSION 1 (P1)

SUNDAY, JUNE 22, 2014

Poster Session 1 (P1) R

Presented: 9:00 am – 4:00 pm
Exhibit & Poster Hall, Level 1

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

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

Faculty: S. Bhatia, P. Lee, S. Chadderdon, A. Smith

Topics

Vascular Disease.....P1-01 through P1-10

Intraprocedural Echocardiography
(Operating Room and Interventional
Lab) / TEE.....P1-11 through P1-18

Valvular Heart Disease.....P1-19 through P1-53

Ventricular Function /
Myocardial Mechanics.....P1-54 through P1-112

Contrast Echocardiography and
New Technology.....P1-113 through P1-129

Echocardiography in Arrhythmias /
Atrial Function.....P1-130 through P1-140

Echocardiography in Systemic Disease
(DM, HTN, Obesity, Cancer) /
Pericardial / Primary Myocardial.....P1-141 through P1-180

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

P1-01 through P1-10

P1-01 Moderated Poster

Higher Waist-Hip Ratio is Associated with Greater Aortic Stiffness and Worse Left Ventricular Deformation

Zi Ye¹, Barry A. Borlaug¹, Patricia A. Pellikka¹, Thais Coutinho², Hector R. Villarraga¹, Iftikhar J. Kullo¹. ¹Mayo Clinic, Rochester, MN; ²Ottawa Heart Institution, Ottawa, ON, Canada

P1-02 Moderated Poster

Carotid Ultrasound Plaque Quantification in Combination with Stress Testing Enhances Patient Selection for Coronary Angiography

Amer M. Johri¹, Marie-France Hetu¹, Chris S. Simpson¹, Paul Ewart¹, Murray F. Matangi². ¹Queen's University, Kingston, ON, Canada; ²The Kingston Heart Clinic, Kingston, ON, Canada

P1-03 Moderated Poster

Predicting Restenosis of Coronary Artery Stents by Ultrasound Tissue Characteristics of Carotid Artery Plaque

Mika Bando, Hirotugu Yamada, Susumu Nishio, Rie Amano, Yukina Hirata, Junko Hotchi, Yoshihito Saijo, Koji Yamaguchi, Takeshi Soeki, Tetsuzo Wakatsuki, Masataka Sata. Tokushima University Hospital, Tokushima, Japan

P1-04

Carotid Plaque Area by Ultrasound Predicts Cardiovascular Outcomes

Murray F. Matangi¹, David WJ Armstrong¹, Ursula Jurt¹, Daniel Brouillard¹, J. Bakker¹, Amanda Dillon¹, Amer M. Johri². ¹Kingston Heart Clinic, Kingston, ON, Canada; ²Queen's University, Kingston, ON, Canada

P1-05

Multi-directional Mechanics of Carotid Artery: A Novel Surrogate Marker for Cardiovascular Risk Stratification

Ji Hyun Yoon¹, In-Jeong Cho¹, Hyuck-Jae Chang¹, Jinyong Lee², Bongheon Lee², Joohyun Song², Sanghoon Shin¹, Chi Young Shim¹, Geu-Ru Hong¹, Jong-Won Ha¹, Namsik Chung¹. ¹Yonsei University College of Medicine, Seoul, Republic of Korea; ²Samsung Medison, Seoul, Republic of Korea

P1-06

Ascending Aorta Measurement by Transthoracic Echocardiography: Is it Accurate?

Priscilla Hoang, Nishath Quader, George Zawadowski, Prasad Panse, Hari P. Chaliki. Mayo Clinic Arizona, Scottsdale, AZ

P1-07

Association between Aortic Stiffness and Left Ventricular Mass in a Large South Asian Population Sample without Hypertension

Mohan Thanikachalam¹, Jahnvi Sunderarajan², Wajih Syed¹, Vijaykumar Harivanzan², Natesa Pandian¹, Jeffrey Kuvin¹, Ragavendra Baliga³, S. Ramesh², Sadagopan Thanikachalam². ¹Tufts University School of Medicine, Boston, MA; ²Sri Ramachandra University, Porur, India; ³Ohio State University, Columbus, OH

P1-08

New Three-Dimensional Carotid Ultrasound in Plaque and Artery Volume Measurements and Comparison with Standard Assessment of Carotid Artery Stenosis

Hayrapet Kalashyan¹, Ashfaq Shuaib², Maher Saqqur², Khurshid Khan², Helen Romanchuk², Jonathon Osborne³, Patrick H. Gibbons¹, Harald Becher¹. ¹Mazankowski Alberta Heart Institute, University of Alberta Hospital, Edmonton, AB, Canada; ²University of Alberta Hospital, Edmonton, AB, Canada; ³Medical School, University of Tasmania, Tasmania, Australia

POSTER SESSION 1 (P1)

P1-09

Simultaneous Assessment of Flow-Mediated Dilation and Brachial Intima-Media Thickness in Patients with Type 2 Diabetes Mellitus

Yuko Ohno, Hiroki Oe, Toru Miyoshi, Nobuhisa Watanabe, Kunihisa Kohno, Nobuhiro Nishii, Kazufumi Nakamura, Hiroshi Morita, Hiroshi Ito. Okayama University, Okayama, Japan

P1-10

Subclinical Alteration of Left Ventricular Performance and Aortic Elastic Properties are Present in Patients after Kawasaki Disease with Coronary Artery Aneurysm Even Without Cardiac Ischemia

Jun Oyamada¹, Shunsuke Shimada², Mieko Okazaki², Manatomo Toyono². ¹Hiraka General Hospital, Yokote, Japan; ²Akita University, Akita, Japan

Intraprocedural Echocardiography (Operating Room and Interventional Lab) / TEE

P1-11 through P1-18

P1-11 Moderated Poster

Transesophageal Saline Contrast Echocardiography in Fontan Patients: Assessment of the Presence, Type, and Size of Right to Left Shunts

Rishi Adhikari, Dhaval Patel, Saad Siddiqui, Eleanor Ross, Vivian Wei Cui, Alexander Javois, David A. Roberson. Advocate Children's Hospital, Heart Institute for Children, Oak Lawn, IL

Author Disclosures: V. Cui - 1 (Philips Ultrasound); D. A. Roberson - 1 (Philips Ultrasound)

P1-12 Moderated Poster

Impact of Paravalvular Regurgitation after Surgical Aortic Valve Replacement: An Intraoperative Transesophageal Echocardiography Study

Hirotsugu Mihara, Javier Berdejo, Yuji Itabashi, Michele A. De Robertis, Alfredo Trento, Takahiro Shiota. Cedars-Sinai Heart Institute, Los Angeles, CA

P1-13 Moderated Poster

Echocardiography During ASD and PFO Device Closure: Comparison of Intracardiac, Two-Dimensional Transesophageal and Three Dimensional Transesophageal Echocardiography Results from 424 Consecutive Interventions

David A. Roberson, Vivian Wei Cui, Eleanor Ross, Saad Siddiqui, Dhaval Patel, Alexander Javois. Advocate Children's Hospital, Heart Institute for Children, Oak Lawn, IL

Author Disclosures: V. Cui - 1 (Philips Ultrasound); D. A. Roberson - 1 (Philips Ultrasound)

P1-14

Impact of Rescue Echo for Resuscitation of LVAD Patients

Matthew J. Griffie¹, Georges Desjardins¹, Benjamin Gmelch², Timothy Holmberg¹, David N. Morgan¹, Joshua M. Zimmerman¹. ¹University of Utah Department of Anesthesiology, Salt Lake City, UT; ²University of Utah, Salt Lake City, UT

P1-15

Incidence of Left Atrial Appendage Thrombi during Transesophageal Echocardiography for Various Indications

Ryan Beard, Amir Darki, Khaled Dajani, William Jacobs, Keith McLean, Mauro Montevecchi, Binh An Phan, Mark Rabbat, Mushabbar Syed, Thriveni Sanagala. Loyola University Medical Center, Maywood, IL

P1-16

Transesophageal Echocardiographic Guidance of Transcatheter Aortic Valve Deployment

Lynn Weinert, Roberto M. Lang, Eric Kruse, Anuj Mediratta, Victor Mor-Avi, Ross Milner, Sandeep Nathan, Atman P. Shah. University of Chicago, Chicago, IL

Author Disclosures: R. M. Lang - 1, 4 (Philips Healthcare)

P1-17

Perioperative Echocardiography Derived Longitudinal Right Ventricle Function Parameters as Predictor of Clinical Outcome for Tetralogy of Fallot Repair

Ravi Raj, Aveek Jayant, Goverdhan Dutt Puri. PGIMER, Chandigarh, Chandigarh, India

P1-18

Clinical Predictors of Aortic Atherosclerosis: A Prospective Study Using Trans-Esophageal Echocardiography

Alok Saurav, Manu Kaushik, Venkata Mahesh Alla, Aryan V. Mooss. Creighton University Medical Center, Omaha, NE

Valvular Heart Disease

P1-19 through P1-53

P1-19 Moderated Poster

Effect of Aortic Valve Surgery on Different Types of Severe Aortic Stenosis Classified by Echocardiography

Richard B. Stacey, Meng Meng, Bharathi Upadhyay, Carlos Rodriguez, David Zhao, Min Pu. Wake Forest University, Winston Salem, NC

POSTER SESSION 1 (P1)

P1-20 Moderated Poster

Familial Clustering of Mitral Value Prolapse in the Community

Francesca N. Delling¹, Jian Rong², Martin G. Larson², Birgitta Lehman², Ewa Osypiuk², Plamen Stantchev², Emelia J. Benjamin³, Robert A. Levine⁴, Ramachandran S. Vasan³. ¹Beth Israel Deaconess Medical Center, Boston, MA; ²Framingham Heart Study, Framingham, MA; ³Framingham Heart Study/Boston University, Framingham, MA; ⁴Massachusetts General Hospital, Boston, MA

P1-21 Moderated Poster

Right Ventricular Function is Associated with Left Ventricular Stroke Volume in Patients with Severe Aortic Stenosis and Preserved Ejection Fraction

George T. Charlton, Teresa Slomka, Wen-Chih Wu, Gaurav Choudhary. Providence VAMC and Alpert Medical School of Brown University, Providence, RI

P1-22 Moderated Poster

Optimal Timing of Aortic Valve Replacement for Symptomatic Patients with Low-Gradient Severe Aortic Stenosis and Preserved Left Ventricular Ejection Fraction

Duk-Hyun Kang¹, Jeong Yoon Jang¹, Hyo In Choi¹, Dae-Hee Kim¹, Jong-Min Song¹, Kee-Joon Choi¹, Jae-Kwan Song¹, Joo-Hee Zo². ¹Asan Medical Center, Seoul, Republic of Korea; ²Boramae Hospital, Seoul, Republic of Korea

P1-23 Moderated Poster

Functional Evaluation of 3D Printed Patient Specific Models of Severe Aortic Valve Stenosis

Dimitrios Maragiannis, Matthew S. Jackson, Stephen R. Igo, Robert Schutt, III, Stephen H. Little. Houston Methodist Hospital, Houston, TX

P1-24 Moderated Poster

Aortic Regurgitation Severity Evaluated by Quantitative Doppler Echocardiography. A Comparative Study with Cardiac Magnetic Resonance

Ana MAS Gali, André Schmidt, Minna MD Romano, Antonio Pazin-Filho, Oswaldo C. Almeida-Filho, José A. Marin-Neto, Marcel K. Santos, Henrique S. Trad, Benedito C. Maciel. Medical School of Ribeirão Preto, Ribeirão Preto, Brazil

P1-25

Echocardiographic Diagnosis of Unicuspid Aortic Valve

Chance M. Witt, Eric R. Fenstad, Christopher D. Janish, William D. Edwards, Garvan C. Kane, Patricia A. Pellikka. Mayo Clinic, Rochester, MN

P1-26

Echocardiographic Determinants of LV Functional Improvement after Trans-Catheter Aortic Valve Replacement

Jinling Chen, Saif Anwaruddin, Zachary Fox, Caroline Komlo, Nimesh Desai, Howard Herrmann, Dinesh Jagasia, Yuchi Han. University of Pennsylvania, Philadelphia, PA

Author Disclosures: H. Herrmann - 2 (Edwards Lifesciences), 4 (Edwards Lifesciences, Medtronic)

P1-27

Assessment of Flow Contraction in Tricuspid and Bicuspid Aortic Valves Using 3D Echocardiography

Suzana M. Zorca¹, Joshua D. Quick², W.W. Sanouri A. Ursprung³, Michael N. Andrawes², Frederick C. Cobey³, Annette K. Mizuguchi¹. ¹Brigham and Women's Hospital, Boston, MA; ²Massachusetts General Hospital, Boston, MA; ³Tufts Medical Center, Boston, MA

P1-28

Prognosis of Un-Operated Aortic Stenosis: Risk Stratification by Doppler Echocardiography

Richard B. Stacey, Meng Meng, Bharathi Upadhy, Carlos Rodriguez, David Zhao, Min Pu. Wake Forest University, Winston Salem, NC

P1-29

Impact of Ventricular Paced Rhythm in Patients with Low LVEF, Low-Flow Low-Gradient Aortic Stenosis Undergoing Dobutamine Stress Echo

Joao L. Cavalcante, Shasank Rijal, William Katz, Frederick Crock, Matthew Harinstein, John Schindler, Forozan Navid, Thomas Gleason, Joon S. Lee. University of Pittsburgh, Pittsburgh, PA

P1-30

Prevalence of Rheumatic Heart Disease in Urban and Rural Angola by Echocardiography

Michelle Kwok¹, Chi-Ming Chow², Karen Henriksen³, Stephen Foster⁴, Aaron Jones³, Michael Bentley-Taylor², Keith Kwok². ¹University of Sydney, Sydney, Australia; ²University of Toronto, Toronto, ON, Canada; ³Clínica do Rio da Huila/Chihambangala, Rio da Huila, Angola; ⁴Centro Evangelico de Medicina do Lubango, Lubango, Angola

P1-31

Natural History of Mitral Stenosis in Patients with Severe Mitral Annular Calcification

Rayji S. Tsutsui, Zoran B. Popovic, James D. Thomas. Cleveland Clinic, Cleveland, OH

P1-32

The Changing "Face" of Endocarditis: A Rise in Tricuspid Cases

Arash Seratnaehaei, Steve W. Leung, Richard J. Charnigo, Matthew S. Cummings, Vincent L. Sorrell, Mikel D. Smith. University of Kentucky Medical Center, Lexington, KY

P1-33

Prosthesis Patient Mismatch After Mitral Valve Replacement: Stratified by Different Methods of Defining Effective Orifice Area

In-Jeong Cho, Geu-Ru Hong, Sanghoon Shin, Chi Young Shim, Hyuk-Jae Chang, Jong-Won Ha, Namsik Chung. Severance Cardiovascular Hospital, Seoul, Republic of Korea

POSTER SESSION 1 (P1)

P1-34

Publishing Title: Echocardiographic Predictors of Exercise Capacity and the Right Ventricular Response to Exercise After Mitral Valve Surgery

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P1-35

Association of Left Atrial Booster-Pump Function with Heart Failure Symptom in Patients with Severe Aortic Stenosis and Preserved Left Ventricular Ejection Fraction

Junichi Imanishi, Hidekazu Tanaka, Junichi Ooka, Hiroyuki Sano, Hiromi Toki, Hiroyuki Simoura, Takuma Sawa, Yoshiki Yamadori, Yoshiki Motoji, Tatsuya Miyoshi, Yasuhide Mochizuki, Yuko Fukuda, Kazuhiro Tatsumi, Kensuke Matsumoto, Yutaka Okita, Ken-ichi Hirata. Kobe University Graduate School of Medicine, Kobe, Japan

P1-36

Left Heart Ejection Fraction is a Load-independent Parameter for Cardiac Function Assessment in Patients with Mitral Regurgitation

Haiyan Chen, Jun Li, Chunsheng Wang, Xianhong Shu. Zhongshan Hospital, Fudan University, Shanghai, China

P1-37

Right-Ventricular Performance Discordance in Hypertrophic Cardiomyopathy by Trans-Thoracic Echocardiography

Sara C. Martinez, Brian R. Lindman, Patricia McCarty, Julio E. Perez, Richard G. Bach, Sharon Cresci. Washington University School of Medicine, Saint Louis, MO

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P1-38

Advantage of Aortic Valve Reconstruction in Dynamic Changes of Aortic Annulus Assessed by Speckle Tracking Echocardiography after Aortic Valve Surgery

Go Hashimoto¹, Makoto Suzuki¹, Hisao Yoshikawa¹, Takenori Otsuka¹, Yukiko Kusunose¹, Hiromasa Yamashita², Isamu Kawase², Shigeyuki Ozaki², Masato Nakamura¹, Kaoru Sugi¹. ¹Division of Cardiovascular Medicine, Toho University Ohashi Medical Center, Tokyo, Japan; ²Division of Cardiovascular Surgery, Toho University Ohashi Medical Center, Tokyo, Japan

P1-39

Low Flow Low Gradient Aortic Stenosis: Predictors of Low Stroke Volume Beyond Ejection Fraction

Stephen P. Pizzale, Michelle Haroun, Payam Yazdan Ashoori, Karim Ladak, Hisham Dokainish. McMaster University, Hamilton, ON, Canada

P1-40

Comparison of Cardiac Computed Tomography with Transthoracic Echocardiography in the Assessment of Severe Aortic Stenosis

Brian A. O'Leary, Mauro Montecvecchi, Khaled Dajani. Loyola Medical Center, Chicago, IL

P1-41

Prediction of Aortic Stenosis-Related Events in Patients with Systolic Ejection Murmur Using Pocket-Sized Echocardiography

Atsuko Furukawa¹, Yukio Abe¹, Makoto Ito¹, Chiharu Tanaka¹, Tsukasa Matsushita¹, Tomotaka Yoshiyama¹, Kazuki Mizutani¹, Kei Yunoki¹, Kenji Shimeno¹, Eiichiro Nakagawa¹, Ryushi Komatsu¹, Takahiko Naruko¹, Minoru Yoshiyama², Junichi Yoshikawa³. ¹Osaka City General Hospital, Osaka, Japan; ²Osaka City Graduate School of Medicine, Osaka, Japan; ³Nishinomiya Watanabe Cardiovascular Center, Nishinomiya, Japan

P1-42

Morphological Mechanisms of Mitral Valve Pseudoprolapse in Atrial Fibrillation Patients: A Real-Time Three-Dimensional Transesophageal Echocardiography Study

Yuji Itabashi, Javier Berdejo, Hirotsugu Mihara, Takahiro Shiota. Cedars-Sinai Heart Institute, Los Angeles, CA

P1-43

Early Improvement in Valvuloarterial Impedance in Transcatheter Compared to Surgical Aortic Valve Replacement

Se-Jung Yoon, Omar Khaliq, Susheel Kodali, Mathew Williams, Isaac George, Tamim Nazif, Torsten Vahl, Hemal Gada, Martin Leon, Rebecca T. Hahn. Columbia University, New York, NY

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P1-44

Characterization of a Multifactorial Index for the Quantification of Mitral Valve Regurgitation

Telêmaco L. Silva-Junior, André Schmidt, Minna MD Romano, Antonio Pazin-Filho, Henrique S. Trad, Juliana S. Gentil, Benedito C. Maciel. Medical School of Ribeirão Preto, Ribeirão Preto, Brazil

P1-45

Factors Influencing the Prognosis of Octogenarian with Aortic Stenosis in the Advanced Aging Society

Shuai Liang, Kazuto Yamaguchi, Hiroyuki Yoshitomi, Tomoko Adachi, Saki Ito, Nobuyuki Takahashi, Kazuaki Tanabe. Shimane University Faculty of Medicine, Izumo, Japan

POSTER SESSION 1 (P1)

P1-46

Prognostic Significance of Secondary Mitral Regurgitation in Patients with Heart Failure and Chronic Atrial Fibrillation

Kazato Ito¹, Yukio Abe², Chiharu Tanaka², Atsuko Furukawa², Kentaro Yano¹, Daisuke Tonomura¹, Kosuke Takehara¹, Naoto Kino¹, Yoshihisa Shimada¹, Toshiya Kurotobi¹, Takao Tsuchida¹, Hitoshi Fukumoto¹, Minoru Yoshiyama³, Junichi Yoshikawa⁴, Takahiko Naruko², Toshihiko Shibata². ¹Shiroyama Hospital, Habikino, Japan; ²Osaka City General Hospital, Osaka, Japan; ³Osaka City University Medical School, Osaka, Japan; ⁴Nishinomiya Watanabe Cardiovascular Center, Nishinomiya, Japan

P1-47

The Association of Aortic Valve Weight with Echocardiographic Indices of Aortic Stenosis Severity in 465 Patients With Normal Left Ventricular Ejection Fraction Undergoing Aortic Valve Replacement for Severe Isolated Aortic Stenosis

Dragos Alexandru, Simcha Pollack, Florentina Petillo, Marie Gragas, Nathaniel Reichel, Ana Anagnostopoulos, Eddy Barasch. St. Francis Hospital/Stony Brook University, Roslyn, NY

P1-48

Paradoxically High Gradient Parallel to Aortic Valve Plane on Transesophageal Echocardiogram in TAVR Patients

Catherine Law, Jennifer Berry, Christy Todd, Olga Kuteyeva, Fadi Matar, Arthur Labovitz. University of South Florida, Tampa, FL

P1-49

How Accurate are Echocardiographic Measurements Determining Severity of Aortic Stenosis?

Riem Hawi, Douglas Gunzler, Aleksandr Rovner, Charles Thomas, Robert S. Finkelhor, Neal V. Dawson, Robert Bahler. MetroHealth Medical Center, Cleveland, OH

P1-50

Left Atrial Volume Index as a Predictor for Persistent Left Ventricular Dysfunction after Aortic Valve Surgery in Patients with Chronic Aortic Regurgitation: The Role of Early Postoperative Echocardiography

In-Jeong Cho, Hyuk-Jae Chang, Geu-Ru Hong, Ran Heo, Chi Young Shim, Jong-Won Ha, Namsik Chung. Severance Cardiovascular Hospital, Seoul, Republic of Korea

P1-51

Left Ventricular Subendocardial Function Assessed by Three-Dimensional Speckle Tracking Imaging in Relation to the Severity of Aortic Stenosis

Taiji Okada, Kazuto Yamaguchi, Hiroyuki Yoshitomi, Tomoko Adachi, Koji Matuda, Simpei Ito, Taku Nakamura, Nobuhide Watanabe, Ryuma Nakashima, Takashi Sugamori, Akihiro Endo, Nobuyuki Takahashi, Kazuaki Tanabe. Shimane University Hospital, Izumo, Japan

P1-52

Echocardiographic Assessment of Pregnant Women with Bicuspid Aortic Valve - Maternal and Fetal Outcome

Agata M. Leśniak-Sobelga, Magdalena Kostkiewicz, Sylwia Wiśniowska-Śmiałek, Piotr Podolec. Institute of Cardiology, The John Paul II Hospital, Krakow, Poland

P1-53

Association Between Left Atrial Volume Index and Pulmonary Hypertension in Patients with Chronic Organic Mitral Regurgitation

Nithima Ratanasit, Khemajira Karaketklang, Rungroj Krittayaphong. Siriraj Hospital, Mahidol University, Bangkok, Thailand

Ventricular Function / Myocardial Mechanics

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P1-54 Moderated Poster

Effects of Septal Deformation on Left Ventricular Ejection Fraction in Patients with Chronic Pulmonary Hypertension Assessed by Three-Dimensional Echocardiography

Keiko Ryo, Akiko Goda, Antonia Delgado-Montero, Bhupendar Tayal, Marc A. Simon, John Gorcsan, III. University of Pittsburgh, Pittsburgh, PA

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P1-55 Moderated Poster

Right Ventricular Shape in Pressure Versus Volume Overload Karima Addetia, Francesco Maffessanti, Megan Yamat,

Lynn Weinert, Victor Mor-Avi, Roberto M. Lang. University of Chicago, Chicago, IL

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P1-56 Moderated Poster

Assessment of Longitudinal Changes in Torsion in Preterm Infants Less than 29 Weeks Gestation

Adam James, Afif El-Khuffash, David Corcoran. Rotunda Hospital, Dublin, Ireland

P1-57 Moderated Poster

Left Ventricular Systolic Strain Predicts Subsequent Mortality: A Community Study

Ramaimon Tunthong, Richard J. Rodeheffer, Garvan C. Kane. Mayo Clinic, Rochester, MN

P1-58 Moderated Poster

3D Strain Permits Evaluation of Physiological Changes in Left Ventricular Mechanical Function in Athletes

Giorgio Galanti¹, Laura Stefani, Jr.², Alessio De Luca², Loira Toncelli², Gianni Pedrizzetti³. ¹Sports Medicine Centre, Department of Experimental and Clinical Medicine, Florence, Italy; ²Sports Medicine Centre, Florence, Italy; ³Department of Engineering and Architecture, University of Trieste, Italy, Trieste, Italy

POSTER SESSION 1 (P1)

P1-59 Moderated Poster

The Relation Between Early Diastolic Intraventricular Pressure Gradient and Myocardial Deformation of the Left Ventricle

Ken Takahashi¹, Noboru Tanaka¹, Kotoko Matsui¹, Masahiko Kishiro¹, Masaki Nii², Kiyohiro Takigiku³, Manatomo Toyono⁴, Satoru Iwashima⁵, Keiichi Itatani⁶, Kagami Miyaji⁶, Toshiaki Shimizu¹. ¹Juntendo University School of Medicine, Department of Pediatrics, Tokyo, Japan; ²Shizuoka Children's Hospital, Department of Cardiology, Shizuoka, Japan; ³Nagano Children's Hospital, Department of Cardiology, Nagano, Japan; ⁴Akita University, Graduate School of Medicine, Organ Function-Oriented Medicine, Akita, Japan; ⁵Hamamatsu University School of Medicine, Department of Pediatrics, Shizuoka, Japan; ⁶Kitasato University School of Medicine, Department of Hemodynamic Analysis, Kanagawa, Japan

P1-60

A Novel Mathematical Based Software for Modeling the Left Ventricular Myocardium

Mersedeh Karvandi¹, Saeed Ranjbar¹, Seyed Ahmad Hassantash². ¹Taleghani Hospital of Shahid Beheshti University of Medical Sciences, Tehran, Islamic Republic of Iran; ²Modarres Hospital, Institute of Cardiovascular Research, Shahid Beheshti University of Medical Science, Tehran, Islamic Republic of Iran

P1-61

Pericardiectomy Improves Left Ventricular Myocardial Mechanics in Patients with Constrictive Pericarditis

Mamotabo R. Matshela, Lori A. Blauwet, Patricia A. Pellikka, Raul E. Espinosa, Kevin L. Greason, Hartzell V. Schaff, Jae K. Oh, Hector R. Villarraga. Mayo Clinic, Rochester, MN

P1-62

Changes in the Radius of Curvature of the Ventricular Septum as a Predictor of Right Ventricular Failure after Left Ventricular Assist Device Implantation

Chan Seok Park, Ehimare Akhabue, Karen Modesto, Makoto Amaki, Sean Pinney, Anelechi Anyanwu, Jagat Narula, Ajith Nair, Partho P. Sengupta. Mount Sinai Medical Center, New York, NY

P1-63

The Predictive Role of Right Ventricular Strain in Exercise Capacity of Healthy Subjects

Wei-Ting Chang, Yen-Wen Liu, Wei-Chuan Tsai. National Cheng Kung University Hospital, Tainan, Taiwan

P1-64

Temporal Non-Uniformity of Early Diastolic Left Ventricular Wall Expansion in Heart Failure Regardless of Ejection Fraction

Hirokyu Iwano, Ervin Fox, William C. Little. University of Mississippi Medical Center, Jackson, MS

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P1-65

Impact of Left Ventricular Hypertrophy on Dyssynchrony in Patients with Left Bundle Branch Block and Preserved Left Ventricular Systolic Function

Seong-Mi Park, Sua Kim, Mi-Na Kim, Wan-Joo Shim. Korea University Anam Hospital, Seoul, Republic of Korea

P1-66

Altered Left Ventricular Myocardial Mechanics in Children with Pulmonary Arterial Hypertension are Related to Right Ventricular Performance and Invasive Hemodynamics

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

P1-67

Relationships between 3-Dimensional and 2-Dimensional/ Doppler Echocardiographic Variables for Evaluating Right Ventricular Systolic Function

Hirotsugu Yamada, Shinichiro Akiyama, Junko Hotchi, Mika Bando, Yoshihito Saijo, Susumu Nishio, Masami Yamao, Yuta Torii, Yukina Hirata, Masataka Sata. Tokushima University Hospital, Tokushima, Japan

P1-68

Right Ventricular Echocardiographic Indices Predict Poor Outcomes in Infants with Persistent Pulmonary Hypertension of the Newborn

Jonathan Malowitz, Daniel Forsha, Brian Smith, Michael Cotten, Piers Barker, Gregory Tatum. Duke University Medical Center, Durham, NC

P1-69

Strain Rate Increases with Atrial Pacing and Isoproterenol Infusion, Correlating with Increasing Heart Rate: A Validation Study in Human Subjects

Mohammed S. AlHabdan, Joseph Atallah, Michal Kantoch, Timothy Colen, Somjate Suntratontipat, Norazah Zahari, Dongngan Truong, Ismail Al-Abri, Edythe Tham, Nee S. Khoo. University Of Alberta, Stollery Children's Hospital, Edmonton, AB, Canada

P1-70

Structural and Functional Right Ventricular Adaptations in Elite Basketball Athletes

Nicholas Furiasse, Mark Gajjar, Yana Svetlichnaya, Ike Okwuosa, Brian Fey, Jyothy Puthumana. Northwestern University, Chicago, IL

P1-71

Deteriorated Cardiac Systolic Reserve after Longer Interdialytic Interval in Patients with Maintenance Hemodialysis

Masaru Obokata¹, Kazuaki Negishi¹, Thomas H. Marwick², Koji Kurosawa¹, Koji Kurosawa¹, Kyoko Ito³, Tetsuya Ogawa⁴, Yoshitaka Ando³, Masahiko Kurabayashi¹. ¹Gunma University Graduate School of Medicine, Maebashi, Japan; ²Menzies Research Institute Tasmania, Hobart, Australia; ³Hidaka Hospital, Takasaki, Japan; ⁴Hidaka Hospital, Takasaki, Japan

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P1-72

Echocardiographic Assessment of Right Ventricular Adaptation to Loading Conditions can Improve Preoperative Decision Making in Favour of Either Left Ventricular or Bi-Ventricular Assist Device Implantation

Michael Dandel, Henryk Siniawski, Evgenij Potapov, Christoph Knosalla, Roland Hetzer. Deutsches Herzzentrum Berlin, Berlin, Germany

P1-73

Myocardial Mechanics with Right Ventricular Apical Pacing vs Non-Apical Pacing: Role of Dyssynchrony and Regional Function

Makoto Saito¹, Kazuaki Negishi¹, Gerry Kaye², Thomas H. Marwick¹. ¹Menzies Research Institute Tasmania, Hobart, Australia; ²Princess Alexandra Hospital, Brisbane, Australia

P1-74

Insights into the Assessment of Left Ventricular Performance During Extracorporeal Membrane Oxygenation

Andrew M. Koth, David M. Axelrod, Sushma Reddy, Stephen J. Roth, Theresa A. Tracy, Rajesh Punn. Stanford University, Palo Alto, CA

P1-75

Right Heart Size and Function in Orthotopic Heart Transplants: Influence of Donor and Recipient Gender, Race, and Body Surface Area

Sarah Stein, Jinling Chen, Maria Molina, Anjali Owens, Yuchi Han. University of Pennsylvania, Philadelphia, PA

P1-76

Time Difference in Functional Recovery of the Regional Myocardial Deformation of the Left Ventricle during Convalescence in Patients with Takotsubo Cardiomyopathy

Sung-Ai Kim, Mi Jeong Kum, Sang-Ho Jo, Kyung-Ha Park, Hyun-Sook Kim, Sang-Jin Han, Woo-Jung Park. Division of Cardiology, Hallym University Sacred Heart Hospital, Anyang, Republic of Korea

P1-77

Speckle Tracking Abnormalities of Left Ventricle Strain in Acute Allograft Rejection in Children with Heart Transplant

Swati Sehgal, Jennifer Blake, Sanjeev Aggarwal. Children's Hospital of Michigan, Detroit, MI

P1-78

New Echocardiographic Indexes for the Evaluation of Cardiac Function of Idiopathic Pulmonary Arterial Hypertension Using Three Dimensional Echocardiography

Haohua Yao, Daxin Zhou, Cuizhen Pan, Dehong Kong, Lili Dong, Xianhong Shu. Zhongshan Hospital, Fudan University, Shanghai, China

P1-79

Compensatory Mechanism in HCM Patients with Preserved Left Ventricular Ejection Fraction Determined by 2D Speckle Tracking Echocardiographic Left Ventricular Myocardial Strain Gradient Using a Novel Multi-layer Technique

Koya Ozawa, Nobusada Funabashi, Hiroyuki Takaoka, Yoshio Kobayashi. Chiba University Graduate School of Medicine, Chiba, Japan

P1-80

Gestational Changes in Left Ventricular Systolic and Diastolic Function: New Insights Using 2-Dimensional Speckle Tracking Echocardiography

Shantanu P. Sengupta¹, Partho P. Sengupta², Leo Hofstra², Jagat Narula². ¹Sengupta Hospital & Research Institute, Nagpur, India; ²Mount Sinai School of Medicine, New York, NY

P1-81

A Novel Echocardiographic Assessment of Left Ventricular Workload at Rest and Myocardial Reserve in Patients with Duchenne Muscular Dystrophy

Takeshi Tsuda. Nemours/Alfred I. duPont Hospital for Children, Wilmington, DE

P1-82

Higher Reproducibility of Tissue Tracking Method than Conventional M-mode for the Measurement of Tricuspid and Mitral Annular Plane Systolic Excursion

Tetsuo Furukawa, Haruhiko Abe, Keiji Hirooka, Hiroyuki Inoue, Hiroki Nishida, Kaori Yasumura, Taiki Sakaguchi, Kazuya Shinouchi, Hiroyuki Miura, Koichi Miyazaki, Gou Hamano, Masao Koide, Yoshio Yasumura, Yukihiro Koretsune, Hideo Kusuoka. Osaka National Hospital, Osaka, Japan

P1-83

Uncoupling Between Systole and Diastole in Patients with Hematological Malignancies Submitted to Chemotherapy and Stem Cell Transplant

Maria-Cristina D. Abduch¹, Adriano M. Alencar², Fabio L. Coracin³, Rosaura Saboya³, Frederico L. Dulley³, Jose U. Amigo Filho³, Wilson Mathias, Jr.¹, Marcelo LC Vieira¹. ¹Heart Institute (InCor) - University of Sao Paulo, School of Medicine, Sao Paulo, Brazil; ²Institute of Physics - University of Sao Paulo, Sao Paulo, Brazil; ³University of Sao Paulo, School of Medicine, Sao Paulo, Brazil

P1-84

Speckle Tracking Echocardiography Identifies Patients with Cardiac Involvement of Sarcoidosis

Sadiya S. Khan, Jason Chodakowski, Jyothy Puthumana, Alexandru B. Chicos. Northwestern University Feinberg School of Medicine, Chicago, IL

P1-85

Increased Iron Deposition is Directly Associated with Myocardial Dysfunction in Patients with Sickle Cell Disease

Francisco Medrano Colorado¹, Kana Fujikura², Anjani Durga Golive², Tomo Ando³, Martin R. Prince⁴, Mario J. Garcia². ¹Jacobi Medical Center, Bronx, NY; ²Montefiore Medical Center, Bronx, NY; ³Beth Israel Medical Center, New York, NY; ⁴Weill Cornell Medical Center, New York, NY

P1-86

Myocardial Torsion, Strain and Arterial Stiffness in Pediatric Patients with Kawasaki Disease

Myriam E. Almeida-Jones, Sara Kristen Sexson Tejtelt, Peng Chen, Aamir Jeewa, Carolyn Ann Altman, Ricardo Pignatelli. Texas Children's Hospital, Houston, TX

POSTER SESSION 1 (P1)

P1-87

The Longitudinal Impact of Swim Training on Cardiac Structure and Left Ventricular Twist Mechanics

Meagan M. Wasfy¹, Rory Weiner¹, Adolph Hutter, Jr.¹, Francis Wang², Brant Berkstresser², Michael Picard¹, James Deluca¹, Aaron Baggish¹. ¹Massachusetts General Hospital, Boston, MA; ²Harvard University, Cambridge, MA

P1-88

Clinical Correlates and Prognostic Significance of Change in Left Ventricular Mass in a Community-Based Cohort of African Americans

Walter L. Beard, Jr.¹, Ervin R. Fox¹, Solomon K. Musani¹, Tandaw E. Samdarshi¹, Jared K. Taylor¹, Daniel F. Sarpong², Philip R. Liebson³, Kenneth R. Butler¹, Thomas H. Mosley¹, Herman Taylor¹, Ramachandran S. Vasan⁴. ¹University of Mississippi Medical Center, Jackson, MS; ²Jackson State University, Jackson, MS; ³Rush Presbyterian Medical Center, Chicago, IL; ⁴Boston University School of Medicine, Boston, MA

P1-89

Association of Left Atrial Myocardial Function with Left Ventricular Diastolic Dysfunction 2-Dimensional Speckle Tracking Imaging Study

Niloufar Samiei¹, Fatemeh Abbasian², Yalda Mirmesdagh¹, Moghgan Parsaee², Zahra Ojaghi Haghighi³, Maryam Esmailzadeh³. ¹Heart Valve Research Center, Rajaie Cardiovascular, Medical and Research Center, Tehran, Islamic Republic of Iran; ²Rajaie Cardiovascular, Medical and Research Center, Tehran, Islamic Republic of Iran; ³Echocardiography Research Center, Rajaie Cardiovascular, Medical and Research Center, Tehran, Islamic Republic of Iran

P1-90

Right Ventricular Echocardiographic Parameters Predicts the Short Term Outcomes After Coronary Artery Bypass Graft

Mohammed A. Chowdhury, Ali Ahmad, Thomas Schwann, Samer Khouri. University of Toledo, Toledo, OH

P1-91

Assessment of Right Ventricular Longitudinal Strain in Multiple Two-Dimensional Views

Laura MacDonald, Kruti Joshi, Harvey Feigenbaum, Stephen Sawada. Indiana University, Indianapolis, IN

P1-92

Comprehensive Left Ventricular Mechanics Analysis by Speckle Tracking Echocardiography in Chagas Disease

Marcio S m Lima, Maria Cristina D. Abduch, Marta F. Lima, Wilson Mathias, Jr., Jeane M. Tsutsui. The Heart Institute of Sao Paulo Medical School, Sao Paulo, Brazil

P1-93

Biologic and Measurement Variability in Left Ventricular Twist Mechanics

Meagan M. Wasfy, Rory Weiner, Adolph Hutter, Jr., Michael Picard, Arthur E. Weyman, Aaron Baggish. Massachusetts General Hospital, Boston, MA

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Quantifying Biventricular Contraction Heterogeneity in Patients with Pulmonary Hypertension by Speckle Tracking Strain Echocardiography: Comparison with Invasive Hemodynamics

Akiko Goda, Keiko Ryo, Antonia Delgado-Montero, Bhupendar Tayal, Marc Simon, John Gorcsan, III. University of Pittsburgh, Pittsburgh, PA

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

P1-95

2D Speckle Tracking-Derived E/SRe' Does Not Correlate to Simultaneous Left Ventricular End-Diastolic Pressure Measurement in Children and Young Adults with Cardiomyopathy and Restrictive Physiology

Sean M. Lang, Erik C. Michelfelder, Peace C. Madueme, Bryan H. Goldstein, John L. Jefferies, Thomas D. Ryan. Cincinnati Children's Hospital, Cincinnati, OH

P1-96

Global Left Ventricular Strain at Baseline in Ischemic Cardiomyopathy is a Predictor of Response after Cardiac Resynchronization Therapy

Antonia Delgado-Montero, Bhupendar Tayal, Keiko Ryo, Akiko Goda, Daniel R. Ludwig, David Schwartzman, Samir Saba, John Gorcsan, III. University of Pittsburgh, Pittsburgh, PA

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P1-97

Two-Dimensional Speckle-Tracking Study of Left Ventricular Myocardial Deformation in Preterm Newborns: The Impact of Patent Ductus Arteriosus

Kellen Freitas Silva¹, Gabriela N. Leal¹, Samira Morhy², Vera Lucia Jornada Krebs¹, José Lázaro Andrade³. ¹Instituto da Criança do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil; ²Hospital Israelita Albert Einstein, São Paulo, Brazil; ³Instituto de Radiologia do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil

P1-98

RV Electrical and Structural Remodeling in Pulmonary Hypertension: ECG, 3D and Speckle Tracking Strain Evaluation

Ramaimon Tunthong, Hiroko Takahama, Garvan C. Kane. Mayo Clinic, Rochester, MN

P1-99

Subcostal Right Ventricular Systolic Strain in Patients with Pulmonary Hypertension

Ramaimon Tunthong, Garvan C. Kane. Mayo Clinic, Rochester, MN

POSTER SESSION 1 (P1)

P1-100

Persistent Left and Right Ventricular Clinical and Sub-clinical Dysfunction is Common in Patients with Breast Cancer Experiencing Cardiotoxicity During Therapy

Anna Calleja¹, Frederic Poulin², Kiril Khorolsky³, Amy E. Lin¹, Philippe Bedard⁴, Michael McDonald¹, Diego Delgado¹, Paaladinesh Thavendiranathan¹. ¹Toronto General Hospital, University of Toronto, Toronto, ON, Canada; ²Hospital Du Sacre-Coeur, Montreal, QC, Canada; ³Toronto General Hospital, Toronto, ON, Canada; ⁴Princess Margaret Hospital, Toronto, ON, Canada

P1-101

Mitral Annular Ascent Identifies Abnormalities in Left Ventricular Diastolic Function

Angel Lopez-Candales. University of Cincinnati, Cincinnati, OH

P1-102

Association of Left Ventricular Diastolic Function with Right Ventricular Systolic Function in Patients with and without Preserved Left Ventricular Ejection Fraction

Tsumugi Oki¹, Hidekazu Tanaka², Yoshiki Motoji², Kensuke Matsumoto², Junichi Ooka², Hiroyuki Sano², Hiromi Toki², Hiroyuki Shimoura², Takuma Sawa², Yoshiki Yamadori², Junichi Imanishi², Tatsuya Miyoshi², Yasuhide Mochizuki², Kazuhiro Tatsumi², Takamitsu Imanishi¹, Nobuhide Hayashi¹, Ken-ichi Hirata², Seiji Kawano¹. ¹Department of Clinical Laboratory, Kobe University, Kobe, Japan; ²Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe, Japan

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Serum N-terminal Procollagen III Propeptide Correlates with Left Ventricular Global Longitudinal Strain in African Americans with Heart Failure

Ibrahim N. Mansour, Mayank Kansal, Sahar Ismail, Vicki Groo, Shital Patel, Adam Bress, Rahul Marpadga, Larisa Cavallari, Thomas D. Stamos. University of Illinois at Chicago, Chicago, IL

P1-104

Strain Echocardiography in Pediatric Sickle Cell Patients: Correlating Severity of Disease with Biventricular Systolic and Diastolic Function

Chris Bugnitz, Melissa Rhodes, Yongjie Miao, Cliff Cua, Karen Texter. Nationwide Children's Hospital, Columbus, OH

P1-105

Subclinical Right Ventricular Systolic Dysfunction in Children and Adolescents with Systemic Lupus Erythematosus: Insights from Bidimensional Speckle-Tracking Echocardiography

Gabriela Leal¹, Camila Paiva¹, Maria Fernanda Giacomini¹, Kellen Freitas Silva¹, Alessandro Cavalcanti Lianza¹, Claudio Leone¹, Gustavo Favaro¹, Samira Saady Morhy², José Lázaro Andrade³, Clóvis Artur Almeida da Silva¹. ¹Instituto da Criança do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil; ²Hospital Israelita Albert Einstein, São Paulo, Brazil; ³Instituto de Radiologia do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil

P1-106

Association of Septal Myocardial Function with Coronary Flow Reserve in Heart Failure Patients Undergoing Cardiac Resynchronization Therapy

Tetsuuri Onishi¹, Hidekazu Tanaka², Hiroya Kawai¹, Ken-ichi Hirata². ¹Himeji Cardiovascular Center, Himeji, Japan; ²Kobe University Graduate School of Medicine, Kobe, Japan

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Hanging-Associated Left Ventricular Dysfunction **U-Ram Jin, Jin-Sun Park, Byoung-Joo Choi, So-Yeon Choi,** Myeong-Ho Yoon, Gyo-Seung Hwang, Seung-Jea Takh, Joon-Han Shin. Ajou University School of Medicine, Suwon, Republic of Korea

P1-108

Association of Coronary Artery Calcium Score and Left Ventricular Diastolic Function in Patients with Normal Stress Study and Preserved Ejection Fraction

Dimitrios Maragiannis, Kongiat Chaikriangkrai, Kelly M. McGregor, Karen Chin, Stephen Little, Sherif Nagueh, SuMin Chang. Methodist Hospital, Houston, TX

P1-109

Quantitative Evaluation of Cardiac Function in Monochorionic Diamniotic Twin Patients: Tissue Doppler Study

Sumito Kimura, Hisashi Ando, Atsushi Kitagawa, Takashi Honda, Manabu Takanashi, Eri Mineo, Masahiro Ishii. Kitasato University of Medicine, Pediatrics, Sagamihara, Japan

P1-110

Myocardial Strain and Torsion Quantification in Patients with Restrictive-Type Anorexia Nervosa

Myriam E. Almeida-Jones¹, Patcharapong Suntharos², Lisa Rosen³, Dorota Gruber⁴, Martin Fisher⁴, Andrew Blaufox⁴, Rubin Cooper⁴, Preeti Dhanantwari⁴. ¹Texas Children's Hospital, Houston, TX; ²Steven and Alexandra Cohen Children's Medical Center of New York, New Hyde Park, NY; ³The Feinstein Institute of Medical Research, North Shore Long Island Jewish Health System, Manhasset, NY; ⁴Steven and Alexandra Cohen Children's Medical Center of New York, New Hyde Park, NY

POSTER SESSION 1 (P1)

P1-111

Left Ventricular Reverse Remodeling in Recent Onset Idiopathic Dilated Cardiomyopathy and Comparison with Peripartum Cardiomyopathy

Irena Fugenfirov, Liaz Zilberman, Nick Todorovich, Sara Shimoni, Jacob George, Sorel Goland. Kaplan Medical Center, Rehovot, Israel

P1-112

Modification of the Dumesnil Method for Echocardiographic Left Ventricular Ejection Fraction Assessment

Adam Yeung, Chi-Ming Chow, Kim Connelly, Mark Hansen, Andreas Kumar, Subodh Joshi. University of Toronto, Toronto, ON, Canada

Contrast Echocardiography and New Technology P1-113 through P1-129

P1-113 Moderated Poster

Myocardial Contrast Echocardiography Molecular Imaging with Phosphatidylserine-enriched Microbubbles for Detection and Spatial Quantification of Myocardial Ischemia

Brian H. Mott, William H. Packwood, Brian P. Davidson, Jonathan R. Lindner. Oregon Health and Science University, Portland, OR

P1-114 Moderated Poster

Three-Dimensional Propagation Imaging of Left Ventricular Activation by Speckle Tracking Echocardiography to Predict Responses for Cardiac Resynchronization Therapy

Yoshihiro Seo, Ryo Kawamura, Masayoshi Yamamoto, Tomoko Ishizu, Kazutaka Aonuma. University of Tsukuba, Tsukuba, Japan
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P1-115 Moderated Poster

Ultrasound Mediated Microbubble Cavitation to Increase Efficacy of Cell Therapy in Chronic Postinfarction Heart Failure

Juefei Wu, Chuanxi Zhang, Shuxin Shen, Shengcun Guo, He Wang, Xuguang Feng, Xinzhong Li, Yulin Liao, Jianping Bin. Southern Medical University, Nanfang Hospital, Guangzhou, China

P1-116

Rapid Detection of Significant Coronary Artery Disease With Regadenoson Stress Contrast Echocardiography Using Optison or Definity

Sharon Mulvagh¹, Feng Xie², Badr Alzahrani², Edward O'Leary², Mary Adolphson², Sahar Abdelmoneim¹, Mohamed Omer¹, Susan J. Eifert Rain¹, Mary E. Hagen¹, Joan Olson², Kevin Nalty², Thomas R. Porter². ¹Mayo Clinic, Rochester, MN; ²University of Nebraska Medical Center, Omaha, NE
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P1-117

Typical Blood Pressure Response During Dobutamine Stress Echocardiography in Patients Without Known Cardiovascular Disease

Sara Abram¹, Adelaide Arruda-Olson¹, Patricia Pellikka¹, Vuyisile Nkomo¹, Jae Oh¹, Alberto Milan², Robert McCully¹. ¹Mayo Clinic, Rochester, MN; ²Department of Medical Sciences, University of Torino, Italy

P1-118

Utilization of Ultrasound Induced Microbubble Destruction to Treat Catheter Induced Vasospasm

Shelby Kutty, Yunbin Xiao, Juefei Wu, John Lof, Feng Xie, Thomas Porter. University of Nebraska/Childrens Hospital and Medical Center, Omaha, NE

P1-119

Improved Detection of Blunt Renal Trauma by Real-time 3D Contrast-Enhanced Ultrasound

Yekuo Li¹, Shuping Ge². ¹Drexel University College of Medicine, Philadelphia, PA; ²St. Christopher's Hospital for Children/Drexel University College of Medicine, Philadelphia, PA

P1-120

Detection of Carotid Atherosclerotic Plaque using Contrast Enhanced Ultrasound: A Systematic Review and Meta-Analysis of Diagnostic Accuracy Studies

Runqing Huang, Sahar S. Abdelmoneim, Lara F. Nhola, Ann M. Farrell, Sharon L. Mulvagh. Mayo Clinic, Rochester, MN

P1-121

The NFkB Binding Motif Promotes Nuclear Import of Plasmid DNA and Improves the Efficiency of Ultrasound-Targeted Microbubble Destruction Mediated Gene Transfection

Jin-ling Chen, Qing Deng, Qing Zhou, Rui-qiang Guo. Remin Hospital of Wuhan University, China, Wuhan City, China

P1-122

Specific Myocardial Characteristics in HCM with Preserved LV Ejection Fraction - Analyzed by Two-Dimensional LV Global Longitudinal and Circumferential Strain Expressed as % Endocardial Strain, by a Novel Multi-layer Analysis Technique using Transthoracic Echocardiography

Koya Ozawa, Nobusada Funabashi, Hiroyuki Takaoka, Yoshio Kobayashi. Chiba University Graduate School of Medicine, Chiba, Japan

P1-123

Relationship of Insulin Resistance, VO₂Max, Endothelial Function, Lipoprotein Particles and Myocardial Blood Flow Reserve in Community-Dwelling Healthy Subjects

Sahar S. Abdelmoneim, Lara F. Nhola, Runqing Huang, Amy K. Saenger, Brenda Kirby, Edward Mendrick, Mary E. Hagen, Ananda Basu, Allan S. Jaffe, Sharon L. Mulvagh. Mayo Clinic, Rochester, MN

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POSTER SESSION 1 (P1)

P1-124

Reduced LV Strain Indices after Acute Myocardial Infarction Predict Future Adverse LV Remodeling

Eliany Mejia-Lopez¹, Kana Fujikura¹, Tomo Ando², Gayathri Kamalakkannan¹, Mario J. Garcia¹. ¹Montefiore Medical Center, Bronx, NY; ²Beth Israel Hospital, New York, NY

P1-125

Strain Imaging of the Intraventricular Septum in a Mechanical Dyssynchrony Model

Anugraha Rajendran, Sarah Keunju Yang, Sheetal Krishnakumar, Shahryar Ashraf, Nicole Chang, Grace Wang, Galyna Kovch, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P1-126

Prediction of Left Ventricular Function Recovery after Left Ventricular Assist Device Implantation

Tomo Ando¹, Kana Fujikura², Anthony Adam Holmes², Rita A. Jermyn², Snehal R. Patel², Mario J. Garcia². ¹Beth Israel Medical Center, New York, NY; ²Montefiore Medical Center, Bronx, NY

P1-127

The Usefulness of Contrast Perfusion Echocardiography Combined with Quantitative Analysis of Enhancement in Differentiating Between Different Types of Cardiac Masses

Qiaoying Tang, Youbin Deng. Ultrasound Department of Tongji Hospital, Wuhan, China

P1-128

Factors Associating Left Ventricular Vortex Flow Pattern and Exercise Capacity in Patients with Apical Hypertrophic Cardiomyopathy: Quantitative Left Ventricular Vortex Study Using Contrast Echocardiography

Darae Kim¹, Geu-Ru Hong¹, In Jeong Cho¹, Sang-Hoon Shin¹, Chi-Young Shim¹, Hyuk-Jae Chang¹, Jong-Won Ha¹, Namsik Chung¹, Mani A. Vannan². ¹Yonsei University Severance Hospital, Seoul, Republic of Korea; ²Piedmont Hospital, Atlanta, GA

P1-129

The Use of Ultrasound-Targeted Cationic Microbubbles Destruction to Promote SDF-1 Gene Transfection and Improve the Cardiac Function of Rabbit with Myocardial Infarction

Jin-ling Chen, Qing Deng, Qing Zhou, Rui-qiang Guo. Remin Hospital of Wuhan University, Wuhan City, China

Echocardiography in Arrhythmias / Atrial Function P1-130 through P1-140

P1-130 Moderated Poster

Echocardiography Underestimates Left Atrial Volumes Compared with MRI

Christine L. Jellis, Stacie Kachline, Scott Flamm, Allan Klein, Zoran B. Popovi, Deborah Kwon. Cleveland Clinic, Cleveland, OH

P1-131 Moderated Poster

Reduced Left Atrial Strain after Catheter Ablation of Atrial Fibrillation Predicts Late Recurrence of Atrial Fibrillation

Hilma Hólm, Peter A. Brady, Fletcher A. Miller, Douglas L. Packer, Jae K. Oh, Naser M. Ammash, Grace Lin. Mayo Clinic, Rochester, MN

P1-132 Moderated Poster

Diastolic Dysfunction in Patients with End-Stage Renal Disease: The Use of Myocardial Mechanics

Anna Calleja¹, Shemy Carasso², Michael Jamorski³, Lynne Williams⁴, Christopher Chan¹, Harry Rakowski¹. ¹Toronto General Hospital, University of Toronto, Toronto, ON, Canada; ²B Padeh Medical Center, Poriya, Lower Galilee, Israel; ³Toronto General Hospital, Toronto, ON, Canada; ⁴Papworth Hospital NHS Foundation Trust, Cambridge, United Kingdom

P1-133

Frank-Starling Law of The Left Atrium in Patients with Mitral Valve Regurgitation

Ben Ren, Lotte de Groot - de Laat, Marcel Geleijnse. Erasmus University Medical Center, Rotterdam, Netherlands

P1-134

3D Echocardiographic Assessment of Changes in Post-MI LA Reservoir Function Predicts Vulnerability for Atrial Fibrillation

Alda Bregasi, Joseph G. Akar, Dana C. Peters, Stephanie L. Thorn, Neil Brysiewicz, Jin C. Paeng, Vahid Tavakoli, Ben A. Lin, Mitchel R. Stacy, James O. Winters, Christi Hawley, Jude F. Clancy, Paras Bhatt, Lissa Sugeng, Albert J. Sinusas. Yale University, New Haven, CT

P1-135

Atrial Double Product Index: A Marker of Bi-atrial Enlargement Predicts Postoperative Atrial Fibrillation in

Patients Undergoing Minimally Invasive Valve Surgery
Julio G. Peguero, Carlos Podesta, Omar Issa, Hany Elmahdy, Juan C. Brenes. Mount Sinai Medical Center, Miami Beach, FL

P1-136

Abnormalities in Tissue Doppler Myocardial Acceleration by Cross Correlation Analysis After Cardiac Resynchronization Therapy as a Marker for Ventricular Arrhythmias

Bhupendar Tayal¹, Peter Sogaard², Antonia Delgado-Montero¹, Niels Risum³, Keiko Ryo¹, Akiko Goda¹, Josef J. Marek¹, Samir Saba¹, Joseph Kisslo⁴, John Gorcsan, III¹. ¹University of Pittsburgh, Pittsburgh, PA; ²Aalborg University, Aalborg, Denmark; ³University of Copenhagen, Gentofte, Copenhagen, Denmark; ⁴Duke University, Durham, NC

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POSTER SESSION 1 (P1)

P1-137

Normal Aging as a Cause of Left Atrial Enlargement: The Chicken or the Egg?

Angel Lopez-Candales, Dave Harris. University of Cincinnati, Cincinnati, OH

P1-138

Mechanical Alternans in Heart Failure is Associated with a Stiff Left Ventricle

Larisa Tereshchenko¹, Robert Kim², Lichy Han³, Oscar Cingolani⁴, Christopher Sibley¹, Stephen Heitner¹, Charles A. Henrikson¹. ¹Oregon Health & Science University, Portland, OR; ²Yale University, New Haven, CT; ³Stanford University, Stanford, CA; ⁴Johns Hopkins University, Baltimore, MD

P1-139

Left Atrial Mechanical Function and Stiffness in Patients with Hypertrophic Cardiomyopathy

Yeonyee E. Yoon¹, Hong-mi Choi¹, Seung-Pyo Lee², Hyung-Kwan Kim², Yong-Jin Kim², Dae-Won Sohn², Goo-Yeong Cho¹. ¹Seoul National University Bundang Hospital, Seongnam, Republic of Korea; ²Seoul National University Hospital, Seoul, Republic of Korea

P1-140

Does Atrial Fibrillation Burden Modulates the Impact of Pulmonary Vein Isolation on Atrial Function?

Srisakul Chirakarnjanakorn, Kenya Kusunose, Allan L. Klein, Mohamed H. Kanj, Brian P. Griffin, Zoran B. Popovi, Cleveland Clinic, Cleveland, OH

Echocardiography in Systemic Disease (DM, HTN, Obesity, Cancer) / Pericardial / Primary Myocardial

P1-141 through P1-180

P1-141 Moderated Poster

Hypertensive Pregnancy and Subsequent Left Ventricular Hypertrophy

Dawn C. Scantlebury¹, Garvan C. Kane¹, Heather J. Wiste¹, Kent R. Bailey¹, Stephen T. Turner¹, Thomas H. Mosley², Sharon L. Kardia³, Alan B. Weder³, Vesna D. Garovic¹. ¹Mayo Clinic, Rochester, MN; ²University of Mississippi, Jackson, MS; ³University of Michigan, Ann Arbor, MI

P1-142 Moderated Poster

High Density Lipoprotein Cholesterol and Ameliorated Cardiac Mechanics: The Association in 2200 Speckle-Tracked Echocardiograms of the HyperGEN Study

Eva E. Martinez¹, Senthil Selvaraj¹, Frank G. Aguilar¹, Kwang-Youn Kim¹, Jie Peng¹, Laura Rasmussen-Torvik¹, Jin Shah², Ryan Irvin², Donna K. Arnett², Sanjiv J. Shah¹. ¹Northwestern University, Chicago, IL; ²University of Alabama at Birmingham, Birmingham, AL

P1-143 Moderated Poster

Incremental Value of Cardiac Imaging over Clinical Risk Score for Predicting 30-Day All-Cause Readmission after Initial Heart Failure

Makoto Saito¹, Kazuaki Negishi¹, Mehdi Eskandari², Srikanth Koneru³, Joshua Hawson², Alice Moore², Simon Foster⁴, Janette Power², Nathan Dwyer², Thomas H. Marwick¹. ¹Menzies Research Institute Tasmania, Hobart, Australia; ²Royal Hobart Hospital, Hobart, Australia; ³Launceston General Hospital, Launceston, Australia; ⁴Department of Health and Human Services, Hobart, Australia

P1-144 Moderated Poster

Cardiac Effects of Allogeneic Hematopoietic Stem Cell Transplant in Patients with Sickle Cell Disease and Beta-thalassemia

Hwaida Hannoush, Matt Hsieh, Courtney Fitzhugh, Wen Li, Cynthia Brenneman, Evan Katradis, Rosario Di Maggio, John Tisdale, Vandana Sachdev. National Institutes of Health, Bethesda, MD

P1-145 Moderated Poster

Layer-Specific Dyssynchrony and its Relationship to the Change of Left Ventricular Function in Mild Hypertensive Patients

Sua Kim, Mi-Na Kim, Wan-joo Shim, Seong-Mi Park. Korea University Medical Center, Seoul, Republic of Korea

P1-146 Moderated Poster

The Association between Central and General Obesity and Left Ventricular Strain in a Population Study

Helena Podrouzkova, Ramaimon Tunthong, Garvan Kane, Richard Rodeheffer, Virend Somers, Francisco Lopez-Jimenez. Mayo Clinic, Rochester, MN

P1-147

Myocardial Fat Overgrowth in Proteus Syndrome

Hwaida Hannoush, Vandana Sachdev, Alessandra Brofferio, Julie Sapp, Stanislav Sidenko, Cynthia Brenneman, Leslie G. Biesecker, Kim M. Keppler-Noreuil. National Institutes of Health, Bethesda, MD

P1-148

Improvements in Left Ventricular Systolic and Diastolic Function with Bariatric Surgery or Caloric Restricted Weight Loss in Obese Non-human Primates Are Related to Reductions in Truncal Fat Independent of Insulin Sensitivity

Scott M. Chadderdon¹, Brad Stauber¹, J. Todd Belcik¹, Paul Kievit², Kevin L. Grove², Jonathan R. Lindner¹. ¹Oregon Health & Science University, Portland, OR; ²Oregon National Primate Research Center, Beaverton, OR

P1-149

Ultrasonic Tissue Characterization in Patients with Chronic Iron Overload. Correlation with Cardiac Magnetic Resonance

Luis G. Gali, André Schmidt, Minna MD Romano, Antonio Pazin-Filho, Henrique S. Trad, Marcel K. Santos, Ana CS Pinto, Ivan L. Angulo, Dimas T. Covas, Benedito C. Maciel. Medical School of Ribeirão Preto, Ribeirão Preto, Brazil

POSTER SESSION 1 (P1)

P1-150

Myocardial Fibrosis in Hypertrophic Cardiomyopathy Patients with Non Obstructed Coronary Arteries, as detected by 320 Slice CT, and Differentiated Using Two Dimensional Global Longitudinal Strain of the Left Ventricle by Transthoracic Echocardiography, Reveals Poor Prognosis
Koya Ozawa, Nobusada Funabashi, Hiroyuki Takaoka, Yoshio Kobayashi. Chiba University Graduate School of Medicine, Chiba, Japan

P1-151

Prognostic Implications of Pulmonary Hypertension on Patients with Syncope

Nikunj A. Bhatt, Joel A. Nations, Aaron Holley, Michael C. Casey. Walter Reed National Military Medical Center, Bethesda, MD

P1-152

Longitudinal Strain to Predict Myocardial Fibrosis in Hypertrophic Cardiomyopathy

Patrick T. Strickland, Gregory R. Hartlage, Jonathan H. Kim, Maria Alexandra Pernetz, Alan Cheng, Byron Robinson Williams, III, Stephen D. Clements, Jr.. Emory University Hospital, Atlanta, GA

P1-153

Echocardiographic Assessment of the Left Ventricular Hypertrophy and Geometric Patterns in Normotensive Persons with Diabetes: Observations in an Epidemiologic Study of 8,080 South Indians

Mohan Thanikachalam¹, Vijaykumar Harivanzan², Wajih Syed¹, Natesa Pandian¹, JSN Murthy², Sadagopan Thanikachalam². ¹Tufts University School of Medicine, Boston, MA; ²Sri Ramachandra University, Porur, India

P1-154

Coronary Artery Calcification Adversely Impacts LV Function in CKD-5D Patients

Paul Anaya, Anas Al Rifai, Gustav A. Blomquist, Daniel L. Davenport, Marie-Claude Monier-Faugere, Vincent L. Sorrell, Hartmut H. Malluche. University of Kentucky, Lexington, KY

P1-155

Feasibility of 2D Speckle-Tracking Echocardiography in Pediatric Oncology Patients Receiving Anthracyclines

Jade C. Tran, Kathy Ruble, David M. Loeb, Allen Chen, W. Reid Thompson. Johns Hopkins Medical Institutions, Baltimore, MD

P1-156

Echocardiographic Screening for Pulmonary Hypertension in the Setting of Monoclonal Gammopathies

Eric R. Fenstad, Robert B. McCully, Garvan C. Kane, Muhamed Y. Elrashidi, Martha Q. Lacy, Wayne L. Feyereisen. Mayo Clinic Rochester, Rochester, MN

P1-157

Prognostic Value of Left Atrial Deformation in Hypertension

Li-Tan Yang¹, Wei-Chuan Tsai², Wen-Huang Lee³, Yen-Wen Liu², Chih-Chan Lin², Cheng-Han Lee², Wei-Ting Li². ¹Cardiology Division, Department of Internal Medicine, National Cheng Kung University Hospital Dou-Liou Branch, Douliu City, Yunlin County, Taiwan; ²Department of Internal Medicine, National Cheng Kung University Hospital, Tainan, Taiwan; ³Department of Internal Medicine, Tainan Hospital, Tainan, Taiwan

P1-158

Replacement and Interstitial Fibrosis by Cardiac MR and Diastolic Dysfunction in HCM

Dimitrios Maragiannis, Mohamad G. Ghosn, Patrick Green, Dipan J. Shah, Stephen Little, Sherif F. Nagueh. Methodist Hospital, Houston, TX

P1-159

Early Detection of Diastolic and Systolic Dysfunction in Carriers of Hypertrophic Cardiomyopathy Mutations: A Speckle-tracking Echocardiography Study

Pieter A. Vriesendorp, Arend FL Schinkel, Osama II Soliman, Marjon A. van Slegtenhorst, Folkert J. ten Cate, Michelle Michels. Thoraxcenter, Erasmus MC, Rotterdam, Netherlands

P1-160

Association of Echocardiographic Parameters and Myocardial Fibrosis on Cardiac MRI in Patients with HCM

Sang Chol Lee¹, Sung A Chang¹, Sung Ji Park¹, Jin Oh Choi¹, Seung Woo Park¹, Shin Yi Chang¹, Eun Kyung Kim¹, Ga Yeon Lee¹, Sung Mok Kim¹, Yeon Hyeon Choe¹, Jae K. Oh². ¹Sungkyunkwan University / Samsung Medical Center, Seoul, Republic of Korea; ²Mayo Clinic, Rochester, MN

P1-161

E/e' Ratio is an Independent Predictor of Long Term Mortality in Patients with Heart Failure: Nine Year Outcome in 119 Patients

Srikanth Krishnan¹, Sanjay Verma², Michael Cheng³, Rajagopal Krishnan⁴, Ramdas Pai⁴. ¹University of California Irvine School of Medicine, Newport Beach, CA; ²Henry Ford Health System, Detroit, MI; ³University of California, San Francisco, San Francisco, CA; ⁴Loma Linda University Medical Center, Loma Linda, CA

POSTER SESSION 1 (P1)

P1-162

Hypertension is Associated with Altered Myocardial Mechanics and Reduced Functional Capacity in Breast Cancer Survivors who Received Anthracycline Treatment

Ana Barac¹, Filipa Lynce², Karen L. Smith³, Alton A. Henry⁴, Maria T. Tupas-Habib⁴, Madeline Nardacci⁵, Claudine Isaacs⁶.
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P1-163

Global Longitudinal Strain is Significantly Impaired in Patients with Cardiac Sarcoidosis and Preserved Left Ventricular Ejection Fraction

Gillian Murtagh, Luke Laffin, Amit Patel, Catherine Bonham, Zoe Yu, Karima Addetia, Nadia El-Hangouche, Francesco Maffessanti, Joshua Moss, Dk Hogarth, Roberto M. Lang, Amit R. Patel. University of Chicago Medical Center, Chicago, IL

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P1-164

Effect of Rosuvastatin on Coronary Flow Reserve in Hypertensive Patients at Cardiovascular Risk

Byung Joo Sun¹, Duk-Hyun Kang¹, Jeong Yoon Jang¹, Dae-Hee Kim¹, Jong-Min Song¹, Kee-Joon Choi¹, Joo-Hee Zo², Jae-Kwan Song¹. ¹Asan Medical Center, Seoul, Republic of Korea; ²Boramae Hospital, Seoul, Republic of Korea

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P1-165

Relationship Between Systolic and Diastolic Parameters on Echocardiography and Late Gadolinium Enhancement in Cardiac Amyloidosis

Karima Addetia, Francesco Maffessanti, Gillian Murtagh, Victor Mor-Avi, Amit R. Patel, Roberto M. Lang. University of Chicago, Chicago, IL

P1-166

A Novel Technology for the Assessment of Right Ventricular Function in Patients with Chronic Renal Failure: Real-time Three-Dimensional Echocardiography

Minmin Sun, Yu Kang, Cuizhen Pan, Xuesen Cao, Xianhong Shu. Zhongshan Hospital, Fudan University, Shanghai, China

P1-167

Intervendor Strain Prognosis and Reproducibility in Patients with Immunoglobulin Light Chain Amyloid Heart Disease

Sergio B. Gomes¹, Brittney Williams¹, Joseph Maalouf¹, Angela Dispenzieri², Patricia A. Pellikka¹, Hector R. Villarraga¹.

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P1-168

Detection of Transient Left Ventricular Apical Hypertrophy during Recovery from Takotsubo Cardiomyopathy by Serial Echocardiography

Go Hashimoto, Makoto Suzuki, Hisao Yoshikawa, Takenori Otsuka, Yukiko Kusunose, Masato Nakamura, Kaoru Sugi. Division of Cardiovascular Medicine, Toho University Ohashi Medical Center, Tokyo, Japan

P1-169

Incipient Segmental Myocardial Dysfunction in Hamster Experimental Chronic Chagas' Cardiomyopathy as Evaluated by Echocardiography Correlates with Inflammatory Histologic Changes

Minna M.D. Romano¹, Luciano F.L. Oliveira¹, Eduardo E.V. Carvalho¹, Edécio Cunha-Neto², João Santana-Silva¹, Maria L. Higuchi², Benedito C. Maciel¹, José A. Marin-Neto¹, Marcus V. Simões¹. ¹Medicine School of Ribeirão Preto-USP, Ribeirão Preto, Brazil; ²INCOR-Faculdade de Medicina-USP, São Paulo, Brazil

P1-170

Comparisons of Left Ventricular Function Between Maintenance Hemodialysis Patients and Peritoneal Dialysis Patients

Yen-Wen Liu. National Cheng Kung University College of Medicine and Hospital, Tainan, Taiwan

P1-171

Echocardiographic Patterns of Pulmonary Hypertension in the Setting of Hereditary Hemorrhagic Telangiectasia

Melissa A. Lyle¹, Eric R. Fenstad², Michael D. McGoon², Robert P. Frantz², Michael J. Krowka³, Karen L. Swanson⁴, Garvan C. Kane². ¹Division of Internal Medicine, Mayo Clinic, Rochester, MN; ²Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN; ³Division of Pulmonary and Critical Care Medicine, Mayo Clinic, Rochester, MN; ⁴Division of Pulmonary and Critical Care Medicine, Mayo Clinic, Scottsdale, AZ

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P1-172

Echocardiographic Assessment of Pulmonary Hypertension: Motion-Mode Evaluation of Pulmonary Valve Motion

Amelia Yip, Nathan Brunner, John Jue. University of British Columbia, Vancouver, BC, Canada

POSTER SESSION 1 (P1)

P1-173

Right Ventricular Strain by Speckle Tracking Imaging: Assessment in Stable Outpatient Hypertensive Patients

Bianca Ummat¹, Monica Mukherjee², Hetal Mehta³, Brian G. Choi¹, Jannet F. Lewis¹. ¹George Washington University, Washington, DC; ²Johns Hopkins, Baltimore, MD; ³Thomas Jefferson University, Philadelphia, PA

P1-174

Diagnostic Characteristics of Echo Estimated Right Ventricular Systolic Pressure for Pulmonary Hypertension by Right Heart Catheterization

Zainab Samad, Amanda Tinnemore, Alicia Armour, Stephanie Minter, Karen Strub, Irfan Siddiqui, Fawaz Al Enezi, Sudarshan Rajagopal, Terry Fortin, Victor Tapson, Eric J. Velazquez. Duke University Medical Center, Durham, NC

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P1-175

Effect of Body Weight on Left Ventricular Diastolic Function in Asian

Jeong-Sook Seo¹, Han Young Jin¹, Jae-Sik Jang¹, Sang-Hoon Seol², Tae-Hyun Yang¹, Dae-Kyeong Kim¹, Dong-Soo Kim¹. ¹Inje University Pusan Paik Hospital, Busan, Republic of Korea; ²Inje University Haeundae Paik Hospital, Busan, Republic of Korea

P1-176

Severe Obstructive Sleep Apnea Increases in Left Atrial Volume Independently from Left Ventricular Diastolic Impairment

Yasuko Imai, Nobuhiro Tanaka, Yoshifumi Takata, Yasuyoshi Takei, Yasuhiro Usui, Saiko Kurohane, Nori Takahashi. Tokyo Medical University, Tokyo, Japan

P1-177

Is There a Cardioprotective Effect of Angiotensin-Converting Enzyme Inhibitor or Beta Blocker Therapy in the Treatment of Breast Cancer?

Nicholas Furiase, Siri Kunchakarra, Nausheen Akhter. Northwestern University, Chicago, IL

P1-178

Coronary Microvascular Function Independently Associates with Left Ventricular Filling Pressure in Patients with Type 2 Diabetes Mellitus

Takayuki Kawata¹, Masao Daimon¹, Ryoko Ichikawa², Masaki Maruyama², Hiroyuki Daida². ¹The University of Tokyo Hospital, Tokyo, Japan; ²Juntendo University School of Medicine, Tokyo, Japan

P1-179

Abnormal Stress Echocardiography Findings in Cardiac Amyloidosis

Kevin Ong, John Askew, III, Angela Dispenzieri, Kyle Klarich, Nandan Anavekar, Sharon Mulvagh, Martha Grogan. Mayo Clinic, Rochester, MN

P1-180

Diastolic Dysfunction in Hypertensive and Non-Hypertensive Children

Frank A. Osei, Joseph Mahgerefteh, Michael Diogo, Rajesh Shenoy, Leo Lopez. Division of Pediatric Cardiology, Department of Pediatrics, The Children's Hospital at Montefiore - Albert Einstein College of Medicine, Bronx, NY

POSTER SESSION 2 (P2)

MONDAY, JUNE 23, 2014

R Poster Session 2 (P2)

Presented: 9:00 am – 4:00 pm

Exhibit & Poster Hall, Level 1

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

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

Faculty: P. Thavendiranathan, J. Dal-Bianco, K. Mayank, B. Davidson

Topics

Pediatric and Adult Congenital

Heart Disease.....P2-01 through P2-56

Outcomes / Quality / Practice Management / Comparative Effectiveness.....P2-57 through P2-100

3D Echocardiography.....P2-101 through P2-145

Ischemic Heart Disease.....P2-146 through P2-156

Doppler / Hemodynamics.....P2-157 through P2-176

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.

Pediatric and Adult Congenital Heart Disease P2-01 through P2-56

P2-01 Moderated Poster

Reproducibility of Echocardiographic Measurements of Aortic Dimensions Varies by Anatomic Level: A Comparison with Cardiac MRI

Johan Yu, Atosa Nejatian, Tal Geva, Matthew White, Ashwin Prakash. Children's Hospital Boston, Boston, MA

P2-02 Moderated Poster

Tricuspid Annular Plane Systolic Excursion in the Normal Fetus: Comparison of M-mode and 2D Measurement

Christopher J. Statile, Eunice Hahn, Allison Divanovic, Regina Keller, Erik Michelfelder. Cincinnati Children's Hospital Medical Center, Cincinnati, OH

P2-03 Moderated Poster

Practice Variations in Pediatric Echocardiography Labs

Joseph Camarda, Angira Patel, Luciana Young. Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, IL

P2-04 Moderated Poster

Right Ventricular Apical Flattening as an Echocardiographic Screening Tool for Right Ventricular Enlargement

Sujatha Buddhé, Mark Ferguson, Bhawna Arya, Brian Soriano. Seattle Children's Hospital, Seattle, WA

P2-05 Moderated Poster

Assessment of Ascending Aorta Deformation Indices in Bicuspid Aortic Valve and Repaired Tetralogy of Fallot Patients

Anita Sadeghpour, Hossein Nazarihayano, Azin Alizadehasl. Rajaie Cardiovascular Medical and Research Center, Iran University of Medical Sciences, Tehran, Islamic Republic of Iran

P2-06 Moderated Poster

Reduced Active Atrial Function is Associated with RV Mechanical Dyssynchrony and Impaired Relaxation in HLHS: A Prospective Study

Edythe Tham¹, Shelby Kutty², Timothy Colen¹, Somjate Suntratonpipat¹, Mohammed AlHabdan¹, Ling Li², Norazah Zahari¹, Dongngan Truong¹, Nee Khoo¹. ¹University of Alberta, Edmonton, AB, Canada; ²University of Nebraska, Omaha, NE

P2-07

Acute Changes in Myocardial Deformation in Recipient Twins After Selective Fetoscopic Laser Therapy of Twin-Twin Transfusion Syndrome

Ryan A. Moore, Christopher Statile, Regina Keller, Erik Michelfelder. Cincinnati Children's Hospital Medical Center, Cincinnati, OH

P2-08

A Longitudinal Study of Ventricular Function in Hypoplastic Left Heart Syndrome from Birth to Fontan Completion

Edythe Tham¹, Shelby Kutty², Timothy Colen¹, Mohammed AlHabdan¹, Norazah Zahari¹, Dongngan Truong¹, Somjate Suntratonpipat¹, Ling Li², Nee Khoo¹. ¹University of Alberta, Edmonton, AB, Canada; ²University of Nebraska, Omaha, NE

P2-09

Beat-to-Beat Variation in Measures of Ventricular Size and Function are Associated with Observer Variability and Disease Severity in Children with Dilated Cardiomyopathy

Shahryar M. Chowdhury¹, Steven D. Colan², Lynn A. Sleeper³, Minmin Lu³, Karen Altmann⁴, Fraser Golding⁵, Caroline K. Lee⁶, Renee Margossian², Kimberly Molina⁷, Robert Shaddy⁸, Greg Tatum⁹, Elif Seda Selamet Tierney¹⁰, Girish S. Shirali¹¹. ¹Medical University of South Carolina, Charleston, SC; ²Children's Hospital Boston, Boston, MA; ³New England Research Institutes, Watertown, MA; ⁴Columbia University Medical Center, New York, NY; ⁵The Hospital for Sick Children, Toronto, ON, Canada; ⁶Washington University in St. Louis, St. Louis, MO; ⁷University of Utah, Salt Lake City, UT; ⁸The Children's Hospital of Philadelphia, Philadelphia, PA; ⁹Duke University Medical Center, Durham, NC; ¹⁰Lucile Packard Children's Hospital, Palo Alto, CA; ¹¹Children's Mercy Hospital, Kansas City, MO

P2-10

Echocardiographic Predictors of Left Ventricular Outflow Tract Obstruction Following Repair of Atrioventricular Septal Defect

Ginnie Abarbanell, William L. Border, Gemma Morrow, Kirk R. Kanter, Ritu Sachdeva. Emory University, Atlanta, GA

POSTER SESSION 2 (P2)

P2-11

Echocardiographic Analysis of Anomalous Aortic Origin of Coronary Arteries: A Comparison to CT Angiography

Sara K. Sexson Tejtzel, Carlos Mery, Carolyn A. Altman, Joshua A. Kailin, Shannon M. Rivenes, Nancy Ayres, Emily J. Lawrence, Rajesh Krishnamurthy, Prakash Masand, Emmett D. McKenzie, Charles D. Fraser, Dana L. Reaves, Carmen H. Watrin, Kathleen E. Carberry, Silvana M. Lawrence. Texas Children's Hospital/Baylor College of Medicine, Houston, TX

P2-12

The Miniaturized Multiplane Transesophageal Echocardiography Probe: An Evaluation of its Accuracy and Image Quality

Benjamin J. Toole¹, Joe Kreeger², William Border¹, Timothy Slesnick¹, M. Eric Ferguson¹, Ritu Sachdeva¹. ¹Children's Healthcare of Atlanta/Emory University School of Medicine, Atlanta, GA; ²Children's Healthcare of Atlanta, Atlanta, GA

P2-13

Apical Recoil: A Simplified Index of Left Ventricular Suction and Early Diastolic Function in Normal Children

Fang Liu, Michael V. Di Maria, Anirban Banerjee. Children's Hospital of Philadelphia, Philadelphia, PA

P2-14

Preterm Infants have Increased Left Ventricular Twist from Enhanced Apical Rotation and Deformation

Lindsay Mills, Etienne Fortin-Pellerin, Aikiko Hirose, Lisa Hornberger, Nee Khoo. University of Alberta, Edmonton, AB, Canada

P2-15

Decrease in Longitudinal Strain Predicts Development of Transplant Coronary Arterial Vasculopathy One Year After Transplant

Richard J. Boruta, Shelley D. Miyamoto, Adel K. Younoszai, Sonali S. Patel, Bruce F. Landeck, II. University of Colorado School of Medicine, Aurora, CO

P2-16

Tissue Doppler Imaging Echocardiographic Reference Values for Left and Right Ventricle in Children During Exercise

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

P2-17

Comparison of Ventricular Mechanics in Congenital and Non-Congenital Pulmonary Arterial Hypertension: A Speckle Tracking Strain Study

Krong-on Pinyoluksana¹, Arun Sachdev², Benjamin Eidem¹, Hector Villarraga¹, Joseph Dearani¹, Heidi Connolly¹, Garvan Kane¹, Naser Ammash¹. ¹Mayo Clinic, Rochester, MN; ²Bangkok Heart Hospital, Bangkok Hospital Medical Center, Bangkok, Thailand

P2-18

A Prospective Pilot Study of Echocardiographic Assessment of Right Ventricular Systolic Function Using Speckle Tracking Echocardiography Compared to Cardiac Magnetic Resonance Imaging in Pediatric and Young Adult Patients

Kavita Sharma, Dorota Gruber, Christina Sison, Andy Blaufox, Nilanjana Misra. Cohen Children's Medical Center, New Hyde Park, NY

P2-19

Decreased Right Ventricular Strain is an Early Predictor of Brochopulmonary Dysplasia in Premature Infants

Aura A. Sanchez Mejia¹, Philip T. Levy¹, Mark R. Holland², Timothy J. Sekarski¹, Aaron Hamvas¹, Gautam K. Singh¹. ¹Washington University School of Medicine, St Louis, MO; ²Indiana University - Perdue University, Indianapolis, IN

P2-20

Exercise Stress Echocardiography Helps Differentiate Between "Athlete's Heart" and Hypertrophic Cardiomyopathy in Adolescent Patients

Matthew Eric Ferguson, William Border. Sibley Heart Center, Atlanta, GA

P2-21

Improvement in Left Ventricular and Left Atrial Myocardial Deformation in Pediatric Patients after Septal Myectomy for Hypertrophic Obstructive Cardiomyopathy

Joseph T. Poterucha, Hector Villarraga, Jonathan Johnson, Joseph Dearani, Frank Cetta, Benjamin Eidem. Mayo Clinic College of Medicine, Rochester, MN

P2-22

Correlation of Echocardiographic Parameters of Longitudinal Function in Single Systemic Right Ventricle with Magnetic Resonance Imaging Derived Ejection Fraction

Muhammad Yasir Qureshi, Rebecca K. Lindquist, Angela R. Miller, Chelsea L. Reece, Patrick W. O'Leary, Benjamin W. Eidem. Mayo Clinic, Rochester, MN

P2-23

Right Ventricular Functional Parameters for Surveillance of Acute Rejection Following Orthotopic Heart Transplantation in Children

Sanjeev Aggarwal, Jennifer Blake, Swati Sehgal. Children's Hospital of Michigan, Detroit, MI

P2-24

Tricuspid Valve Prolapse, Not Tethering, is Associated with Tricuspid Valve Regurgitation in Hypoplastic Left Heart Syndrome Prior to Stage 2 Surgical Palliation: A Three-Dimensional Echocardiography Study

Timothy Colen¹, Shelby Kutty², Mohammed Alhabdan¹, Dongngan Truong¹, Jeffrey F. Smallhorn¹, Nee Khoo¹. ¹University of Alberta, Edmonton, AB, Canada; ²University of Nebraska, Omaha, NE

POSTER SESSION 2 (P2)

P2-25

Utility of Novel Fetal Echocardiographic Measurements in the Diagnosis of Neonatal Critical Coarctation of the Aorta

Bhawna Arya, Margaret Vernon, Aarti Bhat, Jeffrey Conwell, Michele Clouse, Brittany Warren, Mark Lewin. Seattle Children's Hospital and the University of Washington School of Medicine, Seattle, WA

P2-26

Left Ventricular Strain Parameters Track Changes in Pulmonary Capillary Wedge Pressure and Outcomes in Pediatric Heart Transplant Recipients

Jimmy C. Lu, Ranjit Aiyagari, Mary C. Zamberlan, Robert J. Gajarski. University of Michigan, Ann Arbor, MI

P2-27

Differences in Eccentricity Index and Systolic-Diastolic Ratio in Extremely Low Birth Weight Infants with Bronchopulmonary Dysplasia at Risk of Pulmonary Hypertension

Andrew W. McCrary, Jonathan R. Malowitz, Christoph P. Hornik, Kevin D. Hill, C. Michael Cotten, Greg H. Tatum, Piers C.A. Barker. Duke University, Durham, NC

P2-28

Prenatal Diagnosis of Complex Congenital Heart Disease Results in Decreased Risk of Death from Cardiovascular Compromise Prior to Planned Cardiac Surgery: A Meta-Analysis

Brian J. Holland, John A. Myers, Charles R. Woods, Jr. University of Louisville School of Medicine, Louisville, KY

P2-29

Risk-Stratified Postnatal Care of Neonates with Congenital Heart Disease Determined by Fetal Echocardiography

Mary T. Donofrio, Kami Todd-Skurow, Anita Krishnan, John T. Berger, Craig A. Sable. Children's National Medical Center, Washington, DC

P2-30

Hemodynamic Effects of Withdrawal of Ventilator Support in Children

Arash A. Sabati, Alex B. Black, Hui Gao, John Wood, Pierre C. Wong. Children's Hospital Los Angeles, Los Angeles, CA

P2-31

Four-Dimensional Echocardiographic Evaluation of Fetal-Size Heart Volume and Mass

Minh Nguyen, Grace Chang, Meihua Zhu, Eriko Shimada, Cole Streiff, Muhammad Ashraf, David Sahn. Oregon Health & Science University, Portland, OR

P2-32

Feasibility of Assessing Aortic Distensibility in Pediatric Patients with Bicuspid Aortic Valve

Amy S. Lay¹, Joshua D. Robinson¹, Adin C. Andrei², Jyothy Puthamana², Elizabeth Cappella¹, Colleen Clennon², Luciana T. Young¹. ¹Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL; ²Northwestern Memorial Hospital, Chicago, IL

P2-33

Utility of Multimodality Imaging in Risk Stratification of Anomalous Aortic Origin of the Coronary Arteries

Simon Lee¹, Santosh Uppu¹, Kanwal M. Farooqi¹, Javier Sanz¹, H. Helen Ko¹, James C. Nielsen², Rica Arnon¹, Nitin Madan³, Ira A. Parness¹, Irene D. Lytrivi¹, Shubhika Srivastava¹. ¹The Mount Sinai Hospital, New York, NY; ²Stony Brook Children's Hospital, Stony Brook, NY; ³Children's Heart Center of Nevada, Las Vegas, NV

P2-34

Longterm Follow-up in Repaired Tetralogy of Fallot: Can Deformation Imaging Improve Timing of Pulmonary Valve Replacement?

Anna Sabate Rotes, Harold M. Burkhart, Heidi M. Connolly, Joseph A. Dearani, Benjamin W. Eidem. Mayo Clinic, Rochester, MN

P2-35

Right-Dominant Unbalanced Atrioventricular Septal Defect: Echocardiography in Surgical Decision-Making

Alisa Arunamata¹, Sowmya Balasubramanian¹, Richard Mainwaring², Katsuhide Maeda², Elif Seda Selamet Tierney¹. ¹Department of Pediatric Cardiology, Lucile Packard Children's Hospital, Stanford University Medical Center, Palo Alto, CA; ²Department of Cardiovascular Surgery, Stanford University Medical Center, Palo Alto, CA

P2-36

Evaluation of Left Ventricular Contractile Reserve in Children During Exercise: A Comparative Evaluation of Dilated Cardiomyopathy, Hyperteropathic Cardiomyopathy and Normal Individuals

Kristopher Cumbermack, Eric Ferguson, Ritu Sachdeva, William L. Border. Children's Healthcare of Atlanta Sibley Heart Center, Atlanta, GA

P2-37

Using Improvement Methodology to Optimize Decision-Making for Sedation in Children Undergoing Echocardiography

Erik C. Michelfelder, Christopher Statile, James Brown, Deborah Good, Pamela Bernard, Michael Taylor. Cincinnati Children's Hospital Medical Center, Cincinnati, OH

P2-38

A Novel Method of Real-Time, Adjudicated Echo Quality Assurance in a Tertiary Academic Pediatric Echo Laboratory: A Five-Year Experience

William L. Border, Michelle Glanville, Joseph Kreeger, Matthew E. Ferguson, Timothy Slesnick, Ritu Sachdeva. Children's Healthcare of Atlanta Sibley Heart Center, Atlanta, GA

POSTER SESSION 2 (P2)

P2-39

The Fetus with Ectopia Cordis: Experience and Expectations from Two Centers

Sherzana Sunderji¹, Maria Escobar Diaz², Wayne Tworetzky², Anita Moon-Grady¹. ¹University of California, San Francisco, San Francisco, CA; ²Boston Children's Hospital, Boston, MA

P2-40

Doppler Predictors of Onset of Left Ventricular Systolic Dysfunction in Duchenne Muscular Dystrophy

Charlotte S. Van Dorn, Shaji C. Menon, Michael D. Puchalski, Hsin-Yi Weng, Richard V. Williams. University of Utah, Salt Lake City, UT

P2-41

Echocardiographic Predictors of Reintervention and the Degree of Arch Obstruction Following Norwood Procedure Are Not Always the Same

Dongngan Truong, Rutledge Jennifer, Tham Edythe, Khoo Nee. University of Alberta/Stollery Children's Hospital, Edmonton, AB, Canada

P2-42

Evaluation of Fetal Myocardial Hypertrophy by 4D Echocardiography: An in Vitro Study

Xin Liu, Cole Streiff, Meihua Zhu, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P2-43

Impaired Left Ventricular Diastolic Stiffness in Patients with Repaired Tetralogy of Fallot

Fei Qiong Huang, Ju Le Tan, Thu Thao Le, Liang Zhong, Ru San Tan. National Heart Centre Singapore, Singapore, Singapore

P2-44

Insight into Annular Area Change of Mitral Valve in Normal Children and Adolescents. Analysis Using Speckle Tracking on Bi-Plane Mode

Masaki Nii¹, Mizuhiko Ishigaki¹, Tao Fujioka¹, Nao Hamamoto¹, Keisuke Sato¹, Jun Yoshimoto¹, Sung-Hae Kim¹, Norie Mitsushita¹, Kiyohiro Takigiku², Ken Takahashi³, Toyono Manatomo⁴, Satoru Iwashima⁵, Nao Inoue⁶, Yasuo Ono¹. ¹Shizuoka Children's Hospital, Shizuoka, Japan; ²Nagano Children's Hospital, Nagano, Japan; ³Juntendo University, Tokyo, Japan; ⁴Akita University, Akita, Japan; ⁵Hamamatsu University School of Medicine, Shizuoka, Japan; ⁶Seirei Hamamatsu General Hospital, Shizuoka, Japan

P2-45

Reference Values for Myocardial Two-Dimensional Strain Echocardiography during Exercise in Children

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

P2-46

Aortic Isthmus Ductal Angle and Isthmus-Ductal Ratio May Improve Diagnostic Accuracy of Coarctation on Fetal Echocardiograms

Benjamin Toole¹, Brian Schlosser², William Border¹, Alexandra C. Ehrlich³, Nanci Stauffer¹, Ritu Sachdeva¹. ¹Children's Healthcare of Atlanta/Emory University School of Medicine, Atlanta, GA; ²Children's Healthcare of Atlanta, Atlanta, GA; ³Sibley Heart Center Cardiology, Atlanta, GA

P2-47

Gender Differences in Parental Stress and Timing of Diagnosis in Congenital Heart Disease

Nelangi M. Pinto, Kimberly Simon, Hsin-Yi Weng Weng, Xiaoming Sheng, Michael Puchalski. University of Utah, Salt Lake City, UT

P2-48

Left Ventricular Deformation and Exercise Performance in Patients with Repaired Tetralogy of Fallot

Joyce T. Johnson, David G. Gamboa, Michael D. Puchalski, Hsin-Yi Weng, Shaji C. Menon. University of Utah, Salt Lake City, UT

P2-49

Diagnosing Neonatal Coarctation in the Setting of Patent Ductus Arteriosus

David M. Peng, Rajesh Pun, Katsuhide Maeda, Elif Seda, Selamet Tierney. Stanford University, Palo Alto, CA

P2-50

Prospective, Blinded Comparison of Echocardiographic Methods to Cardiac Magnetic Resonance Imaging and Cardiac Biomarkers in Survivors of Pediatric Cancer

Sanket S. Shah, Wendy McClellan, Joy M. Fulbright, Jignesh D. Dalal, Joshua Q. Knowlton, Ashley K. Sherman, Jeet J. Mehta, Anitha Parthiban, Girish Shirali. Children's Mercy Hospitals and Clinics, Kansas City, MO

P2-51

Assessment of Right Ventricular Function in Pediatric Heart Transplant Recipients

Vidhya Annavajjhala, Aamir Jeewa Jeewa, S. Kristen Sexson Tejt, Peng Chen, Qiqiong Cui, Myriam E. Almeida-Jones, Ricardo Pignatelli. Baylor College of Medicine, Houston, TX

P2-52

Associated Cardiac Anomalies and Valvular Cusp Morphologies in Young Patients with Bicuspid Aortic Valve

Joseph T. Poterucha, Jonathan Johnson, Thomas Nienaber, Cecilia Craviari, Frank Cetta, Benjamin Eidem, Donald Hagler. Mayo Clinic College of Medicine, Rochester, MN

P2-53

Diastolic Dyssynchrony Differences in Patients with Single Right Ventricles Versus Control Patients

Corey Stiver, Holly Nadorlik, Lisa Nicholson, Ilija Janevski, Katherine Belfrage, John Wheller, Clifford L. Cua. The Heart Center, Nationwide Children's Hospital, Columbus, OH

POSTER SESSION 2 (P2)

P2-54

A Unique Approach to Establishing and Sustaining a Pediatric Cardiovascular Imaging Research Core in the Current Economic Era

Ritu Sachdeva¹, Anisha Easley², Gina Hill², Carey Lamphier², William L. Border¹. ¹Emory University School of Medicine, Atlanta, GA; ²Children's Healthcare of Atlanta, Atlanta, GA

P2-55

Prenatal Features that Predict the Need for Early Surgical Repair in Tetralogy of Fallot

Andrew L. Rodenbarger, Janaki Gokhale, John Kovalchin, John Wheller, Karen Texter. Nationwide Children's Hospital, Columbus, OH

P2-56

ALCAPA and Cardiomechanics

Sara Kristen Sexson Tejtzel, Antonio Cabrera, Peng Chen, Qiqiong Cui, Charles Fraser, Amir Jeewa, Ricardo Pignatelli. Texas Children's Hospital/ Baylor College of Medicine, Houston, TX

Outcomes / Quality / Practice Management / Comparative Effectiveness

P2-57 through P2-100

P2-57 Moderated Poster

The Association Between Appropriate Use Criteria and Impact on Patient Care for Transthoracic Echocardiography

Andrew E. Levy, Amita Singh, R. Parker Ward. University of Chicago, Chicago, IL

P2-58 Moderated Poster

Regurgitant Volume Informs Rate of Progressive Cardiac Dysfunction in Asymptomatic Patients with Chronic Aortic or Mitral Regurgitation

Kenya Kusunose, Paul C. Cremer, James D. Thomas, Brian P. Griffin, Zoran B. Popovi. Cleveland Clinic, Cleveland, OH

P2-59 Moderated Poster

Comparison of Reference Values for Cardiac Structure in Hispanics with the American Society of Echocardiography Reference Ranges: Results from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL) Echocardiographic Study of Latinos (Echo-SOL)

John A. Leigh¹, Waqas Qureshi¹, Katrina Swett¹, Ajay Dharod¹, Matthew Allison², Jianwen Cai³, Franklyn Gonzalez³, Barry Hurwitz⁴, Sanjiv Shah⁵, Ankit A. Desai⁶, Daniel Spevack⁷, Carlos J. Rodriguez¹. ¹Wake Forest University School of Medicine, Winston-Salem, NC; ²University of California, San Diego School of Medicine, San Diego, CA; ³University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC; ⁴University of Miami, Miami, FL; ⁵Northwestern University - Feinberg School of Medicine, Chicago, IL; ⁶University of Illinois - Chicago, Chicago, IL; ⁷Albert Einstein College of Medicine, Bronx, NY

P2-60 Moderated Poster

Reliability of Simulator-Based Training and Skills Assessment in Transthoracic Echo

Florence Sheehan, Alisha Skinner, Catherine Otto, Rosario Freeman. University of Washington, Seattle, WA

Author Disclosures: F. Sheehan - 3, 6 (Sheehan Medical LLC), 2, 3, 4 (VentriPoint, Inc.)

P2-61 Moderated Poster

Detection of Discrepancies in Facilitated Echocardiographic Reporting in Fetal Echocardiography

Jacqueline G. Weinberg, Lowell H. Frank, Anita Krishnan, Mary T. Donofrio, Craig A. Sable. Children's National Medical Center, Washington, DC

P2-62 Moderated Poster

Echocardiography-Guided Pericardiocentesis: Changing Practice Patterns Over Three Decades

Eric R. Fenstad, Assefa M. Ayalew, Larry J. Sinak, Sorin V. Pislaru, Charles J. Bruce, Jae K. Oh, Garvan C. Kane. Mayo Clinic Rochester, Rochester, MN

P2-63

Arrhythmias During Dobutamine Stress Echocardiography. Do They Have Prognostic Implications?

Hardik Bhansali, Aditi Singhvi, Ed Peterson, Karthikeyan Ananthasubramaniam. Henry Ford Hospital, Detroit, MI

P2-64

Sex Differences in Left Ventricular Hypertrophy and its Association with Mortality in a Large Population

Lili Zhang¹, Cynthia Taub². ¹Jacobi Medical Center, Bronx, NY; ²Montefiore Medical Center, Bronx, NY

P2-65

Characteristics and Credentials of Echocardiography Laboratories in the United States: Insights from the Intersocietal Accreditation Commission

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P2-66

Left Ventricular Global Longitudinal Strain Predicts Heart Failure Admissions in African American Patients

Ibrahim N. Mansour, Mayank Kansal, Sahar Ismail, Omer Mirza, Adam Bress, Grace Wu, Larisa Cavallari, Thomas D. Stamos. University of Illinois at Chicago, Chicago, IL

POSTER SESSION 2 (P2)

P2-67

Appropriateness and Utilization of Urgent Transthoracic Echocardiograms Performed “After Hours” in an Academic Tertiary Care Setting

Jeffrey Yourshaw, Jason Stuck, Aman Ali, Michael Pfeiffer.
Hershey Medical Center, Hershey, PA

P2-68

Association of Right Ventricular Reverse Remodeling with Long-Term Outcomes in Patients with Pulmonary Hypertension

Hiroyuki Sano, Hidekazu Tanaka, Yoshiki Motoji, Yuko Fukuda, Hiromi Toki, Hiroyuki Shimoura, Junichi Ooka, Takuma Sawa, Yoshiki Yamadori, Junichi Imanishi, Tatsuya Miyoshi, Yasuhide Mochizuki, Kazuhiro Tatsumi, Kensuke Matsumoto, Noriaki Emoto, Ken-ichi Hirata. Kobe University Graduate School of Medicine, Kobe, Japan

P2-69

Value of Portable (Pocket) Trans-thoracic Echocardiography (pTTE) in Immediate Patient Management

Tasneem Z. Naqvi, Mohammad Hafiz, Joan Lusk. Mayo Clinic, Scottsdale, AZ

P2-70

Right Ventricular Involvement Predicts Poor Prognosis in Takotsubo Cardiomyopathy

Nobuyuki Kagiya, Hiroyuki Okura, Tomoko Tamada, Koichiro Imai, Teruyoshi Kume, Akihiro Hayashida, Yoji Neishi, Takahiro Kawamoto, Kiyoshi Yoshida. Kawasaki Medical School, Kurashiki, Japan

P2-71

Value of Interactive Scanning for Improving the Outcome of New-learners in Transcontinental Tele-echocardiography (VISION-in-Tele-echo) Study

Manish Bansal¹, Puneet Maheshwari², David Adams³, Marti L. McCulloch⁴, Tanuj Dada², Aditya Insan², Shaanemeet Singh², Shantanu P. Sengupta⁵, Ravi R. Kasliwal¹, Patricia A. Pellikka⁶, Partho P. Sengupta⁷. ¹Medanta The Medicity, Gurgaon, India; ²Shah Satnam Ji Speciality Hospital, Sirsa, India; ³Duke University Medical Center, Durham, NC; ⁴Methodist DeBakey Heart & Vascular Center, Houston, TX; ⁵Sengupta Hospital and Research Center, Nagpur, India; ⁶The Mayo Clinic, Rochester, MN; ⁷Mount Sinai Medical Center, New York, NY

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P2-72

Bedside Transthoracic Echocardiography can Stratify Risk for Total and Cardiac Short Term Mortality in Intensive Care Patients with Elevated Serum Troponin

Karanvir S. Grewal¹, Jason Schott¹, Dennis A. Calnon¹, David R. Richards¹, Tom W. Goodlive¹, Todd G. Matros¹, Jennifer Klima². ¹OhioHealth Riverside Methodist Hospital, Columbus, OH; ²OhioHealth Research & Innovations Institute, Columbus, OH

P2-73

Extra-Terrestrial Medical Care: A Useful Paradigm to Improved Medical Care on Earth

Scott A. Dulchavsky¹, Kathleen M. Garcia², Ashot Sargsyan², Douglas Ebert², Dana Hommel¹, Alberta Spreafico¹, Luca Neri³. ¹Henry Ford Hospital, Detroit, MI; ²Wyle Laboratories, Houston, TX; ³Niguarda Ca Granda Hospital, Milan, Italy

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P2-74

Pre-Dismissal Echocardiogram After Surgery for Congenital Heart Disease: A Routine with a Reason?

Irsa Shoab, Yunbin Xiao, Ming Zhang, Ibrahim Abdullah, James M. Hammel, David A. Danford, Shelby Kutty. University of Nebraska/Childrens Hospital and Medical Center, Omaha, NE

P2-75

A New “Measuring Stick”: Establishment of Standard Echocardiographic Measurements of the HeartWorks

Transthoracic Normal Heart Simulator
Matthew S. White, Mikel D. Smith, Vincent L. Sorrell.
University of Kentucky, Lexington, KY

P2-76

Effect of the American Society of Echocardiography Recommendations Regarding Right Atrial Pressure Estimation and Catheterization obtained Right Ventricular Systolic Pressures

Zainab Samad, Amanda Tinnemore, Alicia Armour, Stephanie Minter, Karen Strub, Kishan Parikh, Victor Tapson, Terry Fortin, Sudarshan Rajagopal, Eric J. Velazquez. Duke University Medical Center, Durham, NC

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P2-77

Appropriate Use of Cardiac Imaging on Inpatient Academic Medical Centre Wards

Andrew Remfry¹, Howard Abrams², Sacha R. Bhatia³. ¹University of Toronto, Toronto, ON, Canada; ²University Health Network, Toronto, ON, Canada; ³Women's College Hospital, Toronto, ON, Canada

P2-78

Bridging the Gap: Hemodynamic Versus Anatomic Transthoracic Echocardiography in the Critically Ill

Jacob J. Glaser, Sarah B. Murthi, Syeda H. Fatima, Thomas Scalea. UMMC/Shock Trauma, Baltimore, MD

P2-79

Predictors of Delayed Accreditation of Echocardiography Laboratories: A Report from the Intersocietal Accreditation Commission (IAC) Database

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POSTER SESSION 2 (P2)

P2-80

Accreditation is Perceived to Improve Echocardiography Laboratory Quality: Results of an Intersocietal Accreditation Commission (IAC) Survey

Kristopher M. Cumbermack¹, John Y. Choi², Kevin M. Cockcroft³, Mary B. Farrell⁴, Heather L. Gornick⁵, Gary V. Heller⁴, Scott D. Jerome⁶, Sandra L. Katanick⁴, Warren J. Manning⁷, Louis I. Bezold¹. ¹University of Kentucky, Lexington, KY; ²Winchester Neurological Consultants, Inc., Winchester, VA; ³Penn State Milton S. Hershey Medical Center, Hershey, PA; ⁴Intersocietal Accreditation Commission, Columbia, MD; ⁵Cleveland Clinic Foundation Cardiovascular Medicine, Cleveland, OH; ⁶University of Maryland Medical Center Cardiology Division, Finksburg, MD; ⁷Departments of Medicine (Cardiovascular Division) and Radiology, Beth Israel Deaconess Medical Center, Boston, MA

P2-81

Echocardiographic Agreement in the Diagnostic Evaluation for Infective Endocarditis: A Reproducibility Study from the International Collaboration on Endocarditis-Pro prospective Echocardiography Cohort Study

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P2-82

What is the Evidence Status of Appropriate Use Criteria? Insight from a Matching Exercise with the Guidelines for Echocardiography

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The Modified McGoon Index is no Longer a Strong Predictor of Survival in Newborns with Congenital Diaphragmatic Hernia

Peace C. Madueme, Foong-Yen Lim, Erik Michelfelder. Cincinnati Children's Hospital Medical Center, Cincinnati, OH

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Feasibility and Usefulness of Visual Assessment of Right Heart Size and Function using Multiple Acoustic Windows and Quantitation by Transthoracic Echocardiography

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P2-85

Ratio of the Proximal Right Ventricular Outflow Tract to Ascending Aorta Diameter Measured on Standard Transthoracic Echocardiography is an Independent and Incremental Predictor of All-Cause Mortality

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P2-86

Successful MACE Risk Stratification in HCM Patients without Obstructed Coronary Arteries using Two Dimensional, Left Ventricular, Global, Longitudinal and Circumferential Strain Transthoracic Echocardiography

Koya Ozawa, Nobusada Funabashi, Hiroyuki Takaoka, Yoshio Kobayashi. Chiba University Graduate School of Medicine, Chiba, Japan

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Can Contrast Use be Reduced by Updating Ultrasound Equipment?

Michael Goyfman, Smadar Kort. Stony Brook University Medical Center, Stony Brook, NY

P2-88

Differences in Prognostic Values of Echocardiographic Indices among Subgroups Derived from Patients with the Left Ventricular Systolic Dysfunction

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P2-89

Improving the Interpretation of Stress Echocardiography in an Academic Echocardiography Laboratory: An Educational Intervention

David M. Dudzinski, R. Sacha Bhatia, Michael H. Picard, Rory B. Weiner. Massachusetts General Hospital, Boston, MA

P2-90

Assessment of Appropriateness of the Use of Transesophageal Echocardiography in the Diagnosis of Infective Endocarditis

Nicole M. Lynn Fillipon, David J. Hur, Tomas Amuchastegui, Robert McNamara, Lissa Sugeng. Yale New Haven Hospital, North Haven, CT

P2-91

Echocardiography in Pulmonary Hypertension Drug Trials

Kishan S. Parikh, Kristine Arges, Irfan Siddiqui, Sudarshan Rajagopal, Victor Tapson, Terry Fortin, Pamela Douglas, Eric J. Velazquez, Zainab Samad. Duke University Medical Center, Durham, NC

POSTER SESSION 2 (P2)

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Steps Towards Quality Improvement in a Busy Echo Lab - Establishing Reproducibility and Accuracy with an Echo Simulator

Bryon S. Cook, Ediz Tasan, Mikel D. Smith, Vincent L. Sorrell, Matthew White, Annette Smith. University of Kentucky, Lexington, KY

P2-93

Impact of Continuous Quality Improvement Interventions on Correlation between Right Heart Pressures Estimated by Echocardiography and Cardiac Catheterization

Amanda Tinnemore, Alicia Armour, Stephanie Minter, Karen Strub, Sudarshan Rajagopal, Fawaz Al Enezi, Irfan Siddiqui, Victor Tapson, Terry Fortin, Zainab Samad, Eric J. Velazquez. Duke University Medical Center, Durham, NC

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P2-94

Myocardial Radial Strain Predicts Outcome in Dilated Cardiomyopathy with Reactive Pulmonary Hypertension

Yasue Tsukishiro, Tetsuaki Onishi, Misato Chimura, Shinichiro Yamada, Yasuyo Taniguchi, Hiroya Kawai. Himeji Cardiovascular Center, Himeji, Japan

P2-95

Diagnosis of Left Ventricular Non Compaction: Echo vs CMR

Brian Dubin, Jeremy Collins, James Carr, Kameswari Maganti. Northwestern University, Chicago, IL

P2-96

Hand-Carried Echocardiography for the Left Ventricular Hypertrophy Screening in Outpatient Department

Vadim A. Kuznetsov, Anna O. Kozhurina, Arkadiy V. Plusnin. Tyumen Cardiology Center, Tyumen, Russian Federation

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Nothing Has Changed After Six Years of Appropriate Use Criteria. A Systematic Review of Appropriate Use in Transthoracic and Transesophageal Echocardiography

Ricardo Fonseca, Kazuaki Negishi, Thomas Marwick. Menzies Research Institute Tasmania, Hobart, Australia

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Efficacy of Combination of Maximal Isometric and Emotional Exercise Compared to Conventional Isometric Exercise in Echocardiographic Diagnosis of Coronary Artery Disease

Vadim A. Kuznetsov, Dmitriy V. Krinochkin, Elena I. Yaroslavskaya, Elena H. Zaharova, Georgiy S. Pushkarev. Tyumen Cardiology Center, Tyumen, Russian Federation

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Cardiac Intensive Care Unit: A Novel Setting for Application of Appropriate Use Criteria

David M. Dudzinski, R. Sacha Bhatia, Michael H. Picard, Rory B. Weiner. Massachusetts General Hospital, Boston, MA

P2-100

Use of the Modified Delphi Technique to Develop a Competency-Based Simulation-Enhanced Transthoracic Echocardiography Curriculum for Novices

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3D Echocardiography

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P2-101 Moderated Poster

Feasibility of Integrated Assessment of Coronary Anatomy from Computed Tomography and Myocardial Function from 3D Echocardiography

Francesco Maffessanti, Victor Mor-Avi, Karima Addetia, Gillian Murtagh, Lynn Weinert, Rolf Baumann, Amit R. Patel, Roberto M. Lang. University of Chicago Medical Center, Chicago, IL

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P2-102 Moderated Poster

Morphological Abnormality of the Mitral Valve Causing Significant Mitral Regurgitation in Atrial Fibrillation Patients with Preserved Left Ventricular Function: A Real-Time Three-Dimensional Transesophageal Echocardiography Study

Yuji Itabashi, Javier Berdejo, Hirotugu Mihara, Takahiro Shiota. Cedars-Sinai Heart Institute, Los Angeles, CA

P2-103 Moderated Poster

Vortex Formation Time: Comparison between 2D and 3D Echocardiography

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P2-104 Moderated Poster

Left Ventricular Muscle Mass in a Large Cohort of Children - Do We Still Need Cardiovascular Magnetic Resonance to Quantify Hypertrophy?

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POSTER SESSION 2 (P2)

P2-105 Moderated Poster

Superiority of Real-Time Three-Dimensional Versus Two-Dimensional Speckle Tracking Echocardiography for Detection of Recovery in Patients with Acute Myocardial Infarction

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P2-106 Moderated Poster

Left Ventricular Internal Dimension Measured in Mid-Cavity Rather Than at the Base Correlates Better with Left Ventricular Volume. Insights from Left Ventricular Internal Dimension and Volume Pattern Analyses Using 3D Echocardiography

Yong Hyun Park, Mark D. Handschumacher, Xin Zeng, Shmuel Schwartzberg, Judy Hung. Massachusetts General Hospital, Boston, MA

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Evaluation of Ventricular Mass for a Model of Cardiac Hypertrophy Using 4D Echocardiography

Hannah Tam, Jiahui Zhang, Meihua Zhu, Eriko Shimada, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P2-108

Quantification of Mitral Inflow and Aortic Outflow Tract Stroke Volumes by Three-Dimensional Real-Time Full-Volume Color Flow Doppler Transthoracic Echocardiography: An in Vivo Study

Eriko Shimada, Meihua Zhu, Sumito Kimura, Cole Streiff, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P2-109

Validated, Accurate Quantification of Mitral Regurgitation Through 3D Echocardiography Using an Automated Field Optimization Method

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P2-110

Quantification of Right Ventricular Volume and Function Using Single Beat Three-Dimensional Echocardiography - A Validation Study with Cardiac Magnetic Resonance

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P2-111

Independent Assessors of Two Dimensional Global Longitudinal Strain Show Better Agreement than in Three Dimensional Ejection Fraction: A Transthoracic Echocardiography Study

Koya Ozawa, Nobusada Funabashi, Hiroyuki Takaoka, Tomoko Kamata, Fumio Nomura, Yoshio Kobayashi. Chiba University Graduate School of Medicine, Chiba, Japan

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Left Ventricular Post Systolic Shortening Using Three-Dimensional Speckle Tracking Echocardiography in Patients with Severe Aortic Stenosis

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Evaluation of Right Ventricular Mechanics: Standardization of 4D Echocardiography with Validation Against Sonomicrometry - An in Vitro Modeling Study

Jiahui Zhang, Hannah Tam, Meihua Zhu, Eriko Shimada, Cole Streiff, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P2-114

Intervendor Consistency and Accuracy of Left Ventricular Volume Measurements Using Three-Dimensional Echocardiography

Denisa Muraru¹, Antonella Cecchetto¹, Martina Perazzolo Marra¹, Umberto Cucchini¹, Gabriella Romeo¹, Denas Gentian¹, Sorina Mihaila², Luigi P. Badano¹, Sabino Iliceto¹, Mani Vannan³, Roberto M. Lang⁴. ¹University of Padua School of Medicine, Padova, Italy; ²University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania; ³Piedmont Heart Institute, Atlanta, GA; ⁴University of Chicago, Chicago, IL

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Correlate of Global Longitudinal, Radial and Area Strain in Severe Aortic Stenosis with Normal Left Ventricular Ejection Fraction: A Three-Dimensional Speckle-Tracking Echocardiography

Eun Jeong Cho, Sung-Ji Park, Hye Jin Lim, Sung-A Chang, Sang-Chol Lee, Seung Woo Park. Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

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Feasibility of a New 3D Doppler Method to Quantify Shunt Flow Through a Modeled Ventricular Septal Defect

Lydia Tam, Jiahui Zhang, Vivian Chen, Shahryar Ashraf, Cole Streiff, Meihua Zhu, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

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Decreased Three Dimensional Global Longitudinal Strain of Left Ventricle is Associated with Poor Long-Term Prognosis in Patients with Acute Myocardial Infarction

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

P2-118

Quantitation of Valve Regurgitation Severity by Three Dimensional Vena Contracta Area on Transesophageal Echocardiography Compared to Conventional Methods

Muaz Abudiab, Azar Mehdizadeh, Tasneem Z. Naqvi. Mayo Clinic, Scottsdale, AZ

P2-119

Novel Matrix of M-mode, Doppler and 3D Echocardiography Improves Prediction of Response to Cardiac Resynchronization Therapy

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LV Shape Pattern in Ischemic and Nonischemic Cardiomyopathy - Insights from 3D Echocardiography

Shmuel Schwartzberg, Mark Handschumacher, Xin Zeng, Timothy Tan, Judy Hung. Massachusetts General Hospital, Boston, MA

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QRS Duration Predicts Right Ventricular End-diastolic Volume Determined by Single Beat Three-Dimensional Echocardiography in Adult Patients with Repaired Tetralogy of Fallot

Bahar Pirat, Birgul Varan, Ilkay Erdogan, Elif L. Sade, Ozge Turgay, Haldun Muderrisoglu. Baskent University Faculty of Medicine, Ankara, Turkey

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Three-Dimensional Method of Discs for Measurement of LV Volumes. Validation in a Dynamic Heart Phantom

Peter W. Wood, Patrick H. Gibson, Harald Becher. Mazankowski Alberta Heart Institute, Edmonton, AB, Canada

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Comparison of Two-Dimensional to Three-Dimensional Echocardiographic Measurements of Left Ventricular Volumes in Patients with Pulmonary Hypertension and Cardiac Magnetic Resonance Imaging

Keiko Ryo, Akiko Goda, Antonia Delgado-Montero, Bhupendar Tayal, Marc Simon, John Gorcsan, III. University of Pittsburgh, Pittsburgh, PA

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Three-Dimensional Area Tracking During Dobutamine Stress Echocardiography: Comparison with Global Longitudinal Myocardial Strain

Masood Ahmad, Meneleo M. Dimaano, Hien Nguyen, Rosario Mercado-Young, Tianrong Xie. University of Texas, Galveston, TX

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Accuracy and Reproducibility of Three-Dimensional Echo Left Ventricular Volumes Obtained Using Completely Automated and Manually Edited Endocardial Border Tracing Algorithms

Denisa Muraru¹, Antonella Cecchetto¹, Martina Perazzolo Marra¹, Umberto Cucchini¹, Diletta Peluso¹, Luigi P. Badano¹, Sorina Mihaila², Roberto M. Lang³, Mani Vannan⁴, Sabino Iliceto¹. ¹University of Padua School of Medicine, Padova, Italy; ²University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania; ³University of Chicago, Chicago, IL; ⁴Piedmont Heart Institute, Atlanta, GA

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Influence of Mitral Regurgitation on Adverse Left Ventricular Remodeling in Non-Ischemic Dilated Cardiomyopathy Assessed by 3D Echocardiography

Francesco Maffessanti¹, Karima Addetia¹, Paola Gripari², Gloria Tamborini², Megan Yamat¹, Lynn Weinert¹, Manuela Muratori², Victor Mor-Avi¹, Mauro Pepi², Roberto M. Lang¹. ¹University of Chicago Medical Center, Chicago, IL; ²Centro Cardiologico Monzino IRCCS, Milano, Italy

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In Patients with Ischemic Cardiomyopathy and Secondary Mitral Regurgitation, Mitral Annulus Contractile Dysfunction is Related More to Left Atrial than to Left Ventricular Contractile Dysfunction

Sorina Mihaila¹, Denisa Muraru², Eleonora Piasentini², Simona Casablanca², Patrizia Aruta³, Dragos Vinereanu¹, Sabino Iliceto², Luigi Paolo Badano². ¹Emergency University Hospital Bucharest, Bucharest, Romania; ²University of Padua, Padova, Italy; ³University of Padua, Padova, Romania

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POSTER SESSION 2 (P2)

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Actual Utilization of 3D Left Ventricular Assessment in Routine Clinical Practice

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P2-129

Automatic Quantification of Aortic Regurgitation Using 3D Full Volume Color Doppler Echocardiography: A Validation Study with Cardiac Magnetic Resonance Imaging

Jaehuk Choi, Geu-Ru Hong, Hyuk-Jae Chang, In Jeong Cho, Sang Hoon Shin, Chi-Young Shim, Jong-Won Ha, Namsik Chung. Yonsei University Health System, Seoul, Republic of Korea

P2-130

Changes in Three-Dimensional LVEF and Myocardial Strain in a Cohort of Breast Cancer Patients Treated with Anthracyclines

Timothy Tan, Souhila Meziani, Heloisa Sawaya, Victoria Piro, Michael Picard, Igal Sebag, Marielle Scherrer-Crosbie. Massachusetts General Hospital, Boston, MA

P2-131

Mitral Valve Leaflet Adaptation in Acute Left Ventricular Dysfunction: Real-Time Three-Dimensional Echocardiographic Study

Tomoko Fukuda¹, Nozomi Watanabe², Yuki Yoshimura², Hiroyuki Masuyama², Takashi Fukunaga², Reiko Toida¹, Tetsunori Ishikawa¹, Kazuo Kitamura¹, Kiyoshi Yoshida³. ¹First Department of Internal Medicine, University of Miyazaki, Miyazaki, Japan; ²Miyazaki Prefectural Miyazaki Hospital, Miyazaki, Japan; ³Kawasaki Medical School Department of Cardiology, Kurashiki, Japan

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Image Based Evaluation of Cardiac Mechanics in Open Chest Pigs Subjected to Myocardial Ischemia

Priyanka Vachhani, Shahryar Ashraf, Rohini Deb, Lydia Tam, Vivian Chen, Jiahui Zhang, Cole Streiff, Meihua Zhu, Muhammad Ashraf, David J. Sahn. Oregon Health & Science University, Portland, OR

P2-133

Incremental Value of Transthoracic 3D Echocardiography in Elucidating the Mechanism of Tricuspid Valve Regurgitation

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P2-134

Superior Saddle-Shape Flexibility of Cosgrove-Edwards Annuloplasty Ring and Superior Elliptical Shape Stability of Memo 3D Annuloplasty Ring: Insight from the REAL VIEW, Three-Dimensional Analysis Software

Akira Tsuneto¹, Kiyoyuki Eishi¹, Takashi Miura¹, Kazuyoshi Tanigawa¹, Sanae Kojima¹, Noriko Sakaguchi¹, Ayako Asada¹, Nozomi Kawanami¹, Aki Shiraishi¹, Chisa Eguchi¹, Yuri Uchida¹, Takako Minami¹, Yuji Koide¹, Satoshi Ikeda¹, Hiroaki Kawano¹, Shiro Yamachika², Koji Maemura¹. ¹Nagasaki University Hospital, Nagasaki, Japan; ²Shunkaikai Inoue Hospital, Nagasaki, Japan

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New 4D Echocardiography to Monitor Mechanical Heart Function in Open Chest Instrumented Pigs Subjected to Ventricular Pacing From Different Sites

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P2-136

Global Left Ventricular Mechanical Impairment in Childhood Cancer Survivors after Anthracycline Therapy with Persistent Left Ventricular Regional Wall Motion Abnormalities as Assessed by 3D Speckle-Tracking Echocardiography

Nobutaka Noto, Hirotsugu Okuma, Hiromi Okuma, Hiroshi Kamiyama, Hiroyuki Shichino, Shori Takahashi. Nihon University, Tokyo, Japan

P2-137

Normal Values of Left Ventricular Volume in Children and Adolescents by Three-Dimensional Echocardiography

Tao Fujioka¹, Masaki Nii¹, Mizuhiko Ishigaki¹, Kumiyo Matsuo¹, Nao Hamamoto¹, Keisuke Sato¹, Jun Yoshimoto¹, Sung-Hae Kim¹, Norie Mitsushita¹, Kiyohiro Takigiku², Ken Takahashi³, Noboru Tanaka³, Manatomo Toyono⁴, Satoru Iwashima⁵, Nao Inoue⁶, Yasuo Ono¹. ¹Department of Cardiology, Shizuoka Mt. Fuji Children's Hospital, Shizuoka, Japan; ²Department of Pediatric Cardiology, Nagano Children's Hospital, Nagano, Japan; ³Department of Pediatrics and Adolescent Medicine, Juntendo University, Tokyo, Japan; ⁴Department of Pediatrics, Akita University Hospital, Akita, Japan; ⁵Department of Pediatrics, Hamamatsu University School of Medicine, Hamamatsu, Japan; ⁶Department of Pediatrics, Seirei Hamamatsu General Hospital, Hamamatsu, Japan

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New 4D Echocardiography to Monitor Dynamic Heart Function in Response to Cardio-Tonic Drugs: An in Vivo Study on Open Chest Instrumented Pigs

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P2-139

Comparison of Four-Dimensional Echocardiography and Two-Dimensional Echocardiography with Cardiac MRI in Measuring the Left Ventricular Stroke Volume

Jihwan Kim, Sung-Ji Park, Seunghwa Lee, Eun Jeong Cho, Sung Mok Kim, Hye bin Gwag, Sung-A Chang, Sang-Chol Lee, Seung Woo Park, Yeon Hyeon Choe, Jae K Oh. Samsung Medical Center, Seoul, Republic of Korea

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A Comparison of Annular Area Assessment by Three-Dimensional Transesophageal Echocardiography Versus Balloon Sizing in Patients Undergoing Transcatheter Aortic Valve Replacement

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P2-141

Three-Dimensional Quantification of Dynamic Changes in Mitral Annular Shape in Patients with P2 Flail Leaflet

Kikuko Obase, Lynn Weinert, Karima Addetia, Victor Mor-Avi, Roberto Lang. University of Chicago, Chicago, IL

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Three Dimensional Strain in Patients with Heart Failure and Preserved Left Ventricular Ejection Fraction

Michelle Haroun¹, Terri Hall¹, Lisanne Buikema², Darryl Leong¹, Esam Elbarasi¹, Atooshe Rohani¹, Eva Lonn¹, Hisham Dokainish¹. ¹McMaster University, Hamilton, ON, Canada; ²University of Groningen, Groningen, Netherlands

P2-143

Differences in Mitral Valve Marginal Chordae Tendineae Length in Patients with Functional and Degenerative Mitral Regurgitation Using 3D Transesophageal Echocardiography from the Transgastric Approach

Kikuko Obase, Lynn Weinert, Karima Addetia, Victor Mor-Avi, Roberto Lang. University of Chicago, Chicago, IL

P2-144

Emptying Velocity of Left Atrial Appendage in Sinus Rhythm Correlates with Left Atrial Volume Rather than Left Ventricular End Diastolic Pressure

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Characteristics of Right Ventricular Regional Systolic Function in Patients with Different Etiologies of Pulmonary Arterial Hypertension: A Three-Dimensional Echocardiography Study

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Ischemic Heart Disease

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P2-146 Moderated Poster

Impact of Abnormal Blood Pressure Responses during Dobutamine Stress Echo on Echocardiographic Results and Subsequent Coronary Angiographic Findings

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P2-147 Moderated Poster

Estimation of Myocardial Scar by Speckle Tracking Echocardiography in Heart Failure Patients with Ischemic Cardiomyopathy

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P2-148 Moderated Poster

Post-Exercise Changes in Longitudinal Strain Patterns: A Novel Stress Imaging Approach

Brian E. Miller, Angel Lopez-Candales. University of Cincinnati College of Medicine, Cincinnati, OH

P2-149

Added Value of Dobutamine Stress Echocardiography beyond Assessment of Surgical Risk and Functional Capacity for Prediction of Adverse Cardiac Outcomes after Noncardiac Surgery

Michael W. Cullen, R. Jay Widmer, Stephen S. Cha, Garvan C. Kane, Robert B. McCully, Karen F. Mauck. Mayo Clinic, Rochester, MN

POSTER SESSION 2 (P2)

P2-150

Prognostic Value of Global Longitudinal Systolic Strain in Patients with Anterior Myocardial Infarction

Se Yong Jang, Dong Heon Yang, Jae Hee Kim, Sun Hee Park, Myung Hwan Bae, Jang Hoon Lee, Hun Sik Park, Yongkeun Cho, Shung Chull Chae. Kyungpook National University Hospital, Daegu, Republic of Korea

P2-151

Prevalence and Clinical Correlates of Echocardiographic Left Ventricular Wall Motion Abnormalities in a Large General Population Sample of South Asians without Clinically Recognized Cardiovascular Disease

Mohan Thanikachalam¹, Jahnvi Sunderarajan², Vijaykumar Harivanzan², T. R. Muralidharan², Sadagopan Thanikachalam². ¹Tufts University School of Medicine, Boston, MA; ²Sri Ramachandra University, Porur, India

P2-152

Dobutamine Stress Testing After Cardiac Transplantation - Implications of Donor-Recipient Age Difference

Patrick H. Gibson, Fernando Riesgo, Jonathan B. Choy, Daniel Kim, Harald Becher. Mazankowski Alberta Heart Institute, Edmonton, AB, Canada

P2-153

Effect of E/e' and Left Atrial Dimension on Prediction of Long-Term Clinical Outcomes in Acute Myocardial Infarction Patients with Near Normal Left Ventricular Function

Jae Yeong Cho¹, Kye Hun Kim¹, Sang Chun Lim¹, Sun Ho Hwang², Hyun Ju Yoon¹, Youngkeun Ahn¹, Myung Ho Jeong¹, Jeong Gwan Cho¹, Jong Chun Park¹. ¹Chonnam National University Hospital, Gwangju, Republic of Korea; ²Gwangju Veterans Hospital, Gwangju, Republic of Korea

P2-154

Atypical Presentation Should Prompt Evaluation of Coronary Artery Disease in Patients Undergoing Non-Invasive Stress Testing

Aarti A. Patel¹, Margaret Bettin¹, Maleeha Haq¹, Ryan Martin¹, Brendan Malik¹, Bonnie Kirby¹, Lisa Miller¹, Matthew B. Schabath², Arthur J. Labovitz¹. ¹University of South Florida, Tampa, FL; ²Moffitt Cancer Center, Tampa, FL

P2-155

Predictor of Atrial Fibrillation Development in Patients with ST Segment Elevation Acute Myocardial Infarction

Tae-Ho Park, Dong Hyun Lee, Chang Kyoo Byon. Dong-A University Hospital, Busan, Republic of Korea

P2-156

No Association of Mitral Regurgitation with Localization of Coronary Stenosis in Women with History of Myocardial Infarction

Vadim A. Kuznetsov, Elena I. Yaroslavskaya, Georgiy S. Pushkarev, Dmitriy V. Krinochkin, Grigoriy V. Kolunin. Tyumen Cardiology Center, Tyumen, Russian Federation

Doppler / Hemodynamics

P2-157 through P2-176

P2-157 Moderated Poster

Pulmonary Artery Hemodynamics: Insights from Flow Profiles in the Right Ventricular Outflow Tract

Hiroko Takahama, Garvan Kane. Mayo Clinic, Rochester, MN

P2-158 Moderated Poster

Role of Serial Echocardiography in the Management of Constrictive Pericarditis with Pericardial Inflammation by Cardiac Magnetic Resonance Imaging

Muhammad U. Tariq, Andres Schuster, Rodolfo D. Benatti, Alpana Senapati, M. Chadi Alraies, Allan Klein. Cleveland Clinic, Cleveland, OH

P2-159 Moderated Poster

The Differential Impacts of Arterial Stiffness on Septal and Lateral Annular Velocities of Mitral Valve During Early Diastole in Relation to Age

Woo-hyun Lim, Hack-Lyoung Kim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Seoul National University Boramae Medical Center, Seoul, Republic of Korea

P2-160

Practical Role of Continuous-Wave Doppler Measurements of Diastolic Velocities of Pulmonary Regurgitation for the Assessment of Pulmonary Hypertension

Sanae Kaga¹, Taisei Mikami¹, Kazunori Okada², Ayumu Abe¹, Masahiro Nakabachi³, Hisao Nishino³, Shinobu Yokoyama³, Mutsumi Nishida³, Hiroyuki Iwano⁴, Satoshi Yamada⁴, Hiroyuki Tsutsui⁴. ¹Faculty of Health Sciences, Hokkaido University, Sapporo, Japan; ²Graduate School of Health Sciences, Hokkaido University, Sapporo, Japan; ³Division of Laboratory and Transfusion Medicine, Hokkaido University Hospital, Sapporo, Japan; ⁴Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Sapporo, Japan

P2-161

Serial Changes of Exercise Stress Echocardiographic Parameters in Patients with Connective Tissue Disease without Overt Pulmonary Hypertension

Junko Hotchi, Hirotsugu Yamada, Yoshihito Saijo, Mika Bando, Shuji Hayashi, Susumu Nishio, Masami Yamao, Yuta Torii, Yukina Hirata, Rie Amano, Takayuki Ise, Koji Yamaguchi, Takeshi Tobiume, Shusuke Yagi, Takeshi Iwase, Takeshi Soeki, Tetsuzo Wakatsuki, Masataka Sata. Tokushima University Hospital, Tokushima, Japan

P2-162

Reduction of Left Coronary Artery Flow Reserve is Correlated with Diastolic Dysfunction in a Mouse Model of Cardiac Hypertrophy and Fibrosis

Ning Zhou, Tao Wang. Penn Cardiovascular Institute, University of Pennsylvania, Philadelphia, PA

POSTER SESSION 2 (P2)

P2-163

Assessment of Acute Hemodynamic Effect after Pulmonary Endarterectomy in Chronic Thromboembolic Pulmonary Hypertension using Echocardiography

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

P2-164

Abnormal Biophysical Properties of the Aorta in Post Surgical Patients with Congenital Heart Diseases: A Non-Invasive Study

Yvan Mivelaz, Mande T. Leung, Terri M. Potts, Astrid M. De Souza, James E. Potts, George GG Sandor. BC Children's Hospital and The University of British Columbia, Vancouver, BC, Canada

P2-165

Doppler-Derived Pulmonary Vascular Resistance Ratio: An Assessment of Pulmonary Vascular or Total Pulmonary Resistance?

Laura M. Franey¹, Steven J. Lester², Thomas Marwick³, Micha T. Maeder⁴, David M. Kaye⁵, Antonios P. Vlahos⁶, Walter Serra⁷, Karim Al-Azizi⁸, Nelson B. Schiller⁹, Amr E. Abbas¹. ¹Beaumont Health Systems, Royal Oak, MI; ²Mayo Clinic Scottsdale, Scottsdale, AZ; ³Menzies Research Institute of Tasmania, Hobart, Australia; ⁴Kantonsspital St. Gallen, St. Gallen, Switzerland; ⁵Baker IDI Heart and Diabetes Institute, Melbourne, Australia; ⁶University of Ioannina, Ioannina, Greece; ⁷University Hospital, Cardiopulmonary Department, Parma, Italy; ⁸St. Joseph Mercy Oakland, Pontiac, MI; ⁹University of San Francisco, San Francisco, CA

Author Disclosures: D. M. Kaye - 2 (Osprey Medical, Cardiac Dimensions, Inc.), A. E. Abbas - 2 (Lantheus Imaging)

P2-166

Central Aortic Pulse Pressure is Correlated with Left Ventricular Diastolic Function in Patients Undergoing Coronary Angiography: Assessment with Invasive Hemodynamic Study

Joo-Hee Zo, Hack-Young Kim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim. Boramae Medical Center, Seoul, Republic of Korea

P2-167

Blood Pressure Estimation in the Fetal Aorta

Thomas A. Miller¹, Pieter C. Struijk², LuAnn Minich¹, Edward B. Clark¹, Hanneke Migchels², MarJanna Dahl¹, Michael D. Puchalski¹. ¹University of Utah, Salt Lake City, UT; ²University Medical Center Nijmegen, Nijmegen, Netherlands

Author Disclosures: T. A. Miller - 4 (ASE Foundation)

P2-168

Comparison of Exercise-Induced Hemodynamic Changes Between Anterior and Posterior Mitral Prolapse in Patients with Asymptomatic Degenerative Mitral Regurgitation

Jeong-Eun Yi, Hae-Ok Jung, Ho-Joong Youn. Seoul St. Mary's Hospital, Seoul, Republic of Korea

P2-169

Echocardiographic Findings of Chronic Heart Failure Patients Following Exercise Training

Kaitlyn Lam, Peter Dias, Gillian Green, Andrew Maiorana. Royal Perth Hospital, Perth, Australia

P2-170

Continuous Flow From Inferior Vena Cava Into The Right Atrium Predicts Normal Central Venous Pressure

Rupesh Ranjan, Esra Gucuk Ipek, Nelson B. Schiller. University of California, San Francisco, San Francisco, CA

P2-171

Changes in Cerebral Blood Flow and Cardiac Output after Selective Fetoscopic Laser Photocoagulation in Twin-Twin Transfusion Syndrome

Eunice Hahn, Mounira Habli, Philip R. Khoury, Susan Gomien, Regina Keller, Erik Michelfelder. Cincinnati Children's Hospital Medical Center, Cincinnati, OH

P2-172

Late Mitral Annular Velocity Predicts Long-Term Survival in Patients with Myocardial Infarction

Yuko Takada¹, Hiroyuki Okura², Azusa Yamabe¹, Eriko Murata¹, Toru Kataoka¹, Kiyoshi Yoshida². ¹Bell Land General Hospital, Sakai, Japan; ²Kawasaki Medical School, Kurashiki, Japan

P2-173

Comparison of Exercise-Induced Hemodynamic Changes Between Paroxysmal and Persistent AF

Jeong-Eun Yi, Hae-Ok Jung, Ho-Joong Youn. Seoul St. Mary's Hospital, Seoul, Republic of Korea

P2-174

Doppler Derived Estimation of Pulmonary Vascular Resistance in Patients with Adult Congenital Heart Disease with Left to Right Shunting

Hiroki Oe¹, Madoka Ikeda¹, Yasufumi Kijima¹, Yuko Ohno¹, Nobuhisa Watanabe¹, Koji Nakagawa¹, Satoshi Akagi¹, Kazufumi Nakamura², Teiji Akagi³, Hiroshi Morita¹, Hiroshi Ito³. ¹Okayama University Hospital, Osaka, Japan; ²Okayama University Hospital, Okayama, Japan; ³Okayama University, Osaka, Japan

P2-175

Pulmonary Artery Systolic Pressure by Augmentation of TR Jet: Are ASE Guidelines Accurate?

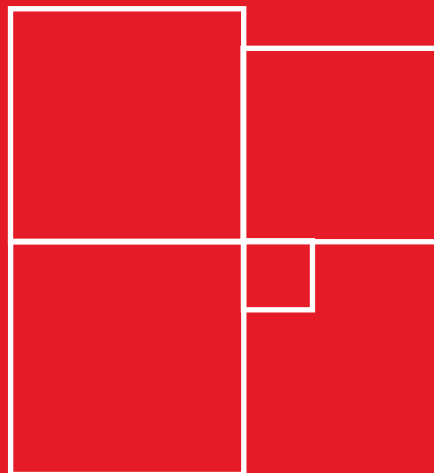
Nishath Quader, Bonnie Kane, John Blair, Kameswari Maganti. Northwestern University, Chicago, IL

Author Disclosures: K. Maganti - 4 (GE)

P2-176

Echocardiographic Classification Based on Ejection Fraction and E/e' and Long-Term Prognosis after Myocardial Infarction

Nanao Matsusaki¹, Hiroyuki Okura², Eriko Murata¹, Toru Kataoka¹, Kiyoshi Yoshida². ¹Bell Land General Hospital, Sakai, Japan; ²Kawasaki Medical School, Kurashiki, Japan



HYPOPLASTIC LEFT HEART SYNDROME (HLHS)

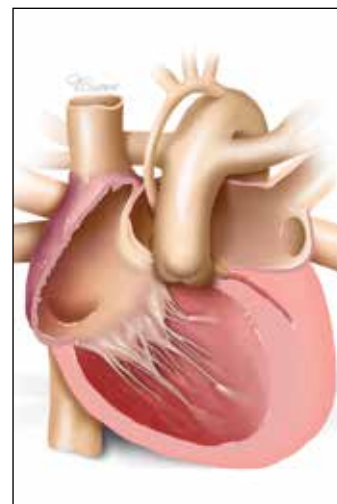
KNOWING WHAT TO LOOK FOR MAY NOT BE EASY. KNOWING WHERE TO LOOK FOR HELP IS.

Hypoplastic left heart syndrome (HLHS) is a condition that occurs in approximately one in 6,000 live births. A lack of oxygen to the blood results in cyanotic skin discoloration, rapid deterioration of the baby, and acidosis. Infants with HLHS and severely restrictive or intact atrial septum tend to be markedly unstable after delivery, requiring urgent cardiac intervention.

Texas Children's Fetal Center specialists are focused on improving the outcomes of HLHS through fetal cardiac intervention. For evolving HLHS, due to critical aortic valve stenosis, we offer balloon dilation of the aortic valve to improve left-sided growth and hopefully prevent the development of HLHS. For fetuses with a severely restrictive or intact atrial septum, we offer fetal atrial septal perforation and stenting. For all cases, we provide extensive prenatal counseling and delivery planning to ensure the best care of the newborn in the same facility as our Heart Center, ranked #3 in the nation.

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The fetus' left ventricle, mitral valve and aortic valve are severely under-developed or absent during gestation. As less blood crosses the mitral and aortic valves, the left heart stops growing. By time of birth, the left ventricle is too small to function to pump blood out of the heart.



**Pavilion
for Women**

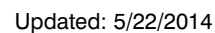


EXHIBIT & POSTER HALL

Exhibit & Poster Hall Hours

SATURDAY, JUNE 21

President's Reception.....4:30 pm - 6:30 pm

SUNDAY, JUNE 22

Open.....9:00 am - 4:00 pm

MONDAY, JUNE 23

Open.....9:00 am - 4:00 pm

Silver Anniversary Reception.....2:45 pm - 3:30 pm

Science & Technology Theater Schedule:

SATURDAY, JUNE 21

11:30 am - 1:00 pm

Modern Day Contrast Themes, presented by Lantheus Medical Imaging, Inc.

SUNDAY, JUNE 22

11:45 am - 1:15 pm

Silver and Gold: Celebrating Echo's Past 25 Years, Looking to the Future, presented by Philips Healthcare

MONDAY, JUNE 23

11:45 am - 1:15 pm

Change Your View: Enhance Your Echocardiography Images, presented by Bracco Diagnostics Inc.

TUESDAY, JUNE 24

11:30 am - 1:00 pm

Mitral Regurgitation - Innovations and Diagnosis in Management of Patients With Mitral Regurgitation, presented by Abbott Vascular

Exhibit & Poster Hall Break Schedule

SUNDAY, JUNE 22

Coffee Breaks.....9:30 am - 10:15 am
& 2:45 pm - 3:30 pm

Lunch on your own in
the Exhibit & Poster Hall.....11:45 am - 1:15 pm

MONDAY, JUNE 23

Coffee Breaks.....9:30 am - 10:15 am
& 2:45 pm - 3:30 pm

Lunch on your own in
the Exhibit & Poster Hall.....11:45 am - 1:15 pm

EXHIBIT & POSTER HALL

WHERE INNOVATION AND SCIENCE MEET

ASE encourages you to visit the ASE 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 56 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. Check your email or print boarding passes in our complimentary Email Station, booth #308 offered by Cardiovascular Credentialing International™ (CCI), booth #306.

ASE HEADQUARTERS BOOTH #708

As the largest organization representing the cardiovascular ultrasound community, ASE is a vibrant and progressive organization. Visit the ASE Headquarters booth #708 to find out what's new with ASE and learn about the exciting changes taking place in the cardiovascular ultrasound field. At ASE Headquarters you'll 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 the new ASEUniversity or used Connect@ASE, come by for a tutorial. While you're there, don't forget to pick up your complimentary copy of the updated ASE guidelines CD.

ASE EDUCATION AND RESEARCH FOUNDATION

The ASE Foundation (ASEF) is ASE's charitable arm, helping to assure the viability and visibility of CV ultrasound. Investing in the Foundation is an investment in your profession, your field, and improved patient care. The Foundation is actively influencing the cardiovascular field and patient care. Monies raised through the 2014 Annual Appeal will support the following initiatives: 1) Research Awards to preserve dedicated time for investigators; 2) Guideline-based

projects to standardize patient care; 3) Student and Fellow travel grants and scholarships to support training and educational conference participation to help foster future cardiovascular professionals; 4) Humanitarian missions and educational outreach projects to serve populations in need; and 5) Training resources for international sonographers. By donating, you will become a recognized supporter of the ASEF and play a vital role in the future of echocardiography. There are many ways to donate! Donate at the ASEF booth, the ASE booth, or online at www.asefoundation.org. You will also be able to indicate one of the initiatives above that is most important to you. To learn more about donating, recognition programs, and upcoming ASEF activities, please visit the ASEF booth located outside of the Exhibit & Poster Hall or online at www.ASEFoundation.org. Join us in making a world of difference.

ASE EDUCATION AND RESEARCH FOUNDATION BOOTH

The ASEF booth at the ASE Annual Scientific Sessions is where you will have an opportunity to get recharged, both electronically and mentally. Located outside of the Exhibit & Poster Hall on Level 1, the booth will have an electronics charging station that will fit a variety of devices. There will also be information on how to get charged up about the events hosted by the Foundation in Portland. Trying to recharge in other ways? Not to worry, the Foundation has you covered there, too! **ASEF is providing conference attendees with the chance to win a "Free Hotel Night" through a raffle hosted at the Foundation booth. This prize is one of a kind: one night of your hotel fee will be erased, courtesy of the Foundation.** You can enter your name into this raffle at the ASEF booth from Friday at 1:30 pm-Monday at 4:00 pm when the lucky winner's name will be drawn. Please note, only ASE-designated hotels are valid for this competition. Last but certainly not least, the Foundation booth will be the place where you can get involved in the variety of events that the Foundation is hosting in Portland. From the Healing Hearts 5K Glow Walk/Run and After Party to the Gala to the Taste of Portland, the Foundation has something for every conference attendee. To learn more about each event, please visit www.asefoundation.org/events.

Please note: the Foundation booth will be located at the Registration Counter on Level 2, Tuesday, June, 24.

FOOD FUNCTIONS

ASE will provide continental breakfast in the Oregon and Portland Ballroom Foyers 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 22 and Monday, June 23 and in the Oregon and Portland Ballroom Foyers on Friday, June 20, Saturday, June 21 and Tuesday, June 24. Please refer to the Schedule-at-a-Glance pages for the times of the daily morning, afternoon and lunch breaks.

ASE will provide lunch on a first-come, first serve basis (max. 350 participants) for attendees of the Science & Technology Theater, located in the Exhibit and Poster Hall. See page 96 of this program for a detailed theatre schedule.

SPECIAL EXHIBIT & POSTER HALL EVENTS

New! 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. Participating exhibiting companies 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! Drawing will be held on Monday, June 23 in the Exhibit & Poster Hall during the Silver Anniversary Reception.

Prize Includes:

- Complimentary Meeting Registration for ASE 2015 Annual Scientific Sessions - includes ASE Membership through 2015.
- Hotel Accommodations (up to 4 nights accommodations) at one of the designated hotels during ASE 2015 Annual Scientific Sessions

Must be present to win. Prize is transferable - but must be utilized for the 2015 Scientific Sessions. All elements of the prize must be utilized by the same individual.

Relax & Recharge Lounge

Booth 114

Take a break in comfortable chairs while recharging your mobile device or talking with friends.

Email Station

Booth 308

For your convenience, Internet access and printers for attendee use are available at the Email Station. ASE thanks Cardiovascular Credentialing International™ (CCI), booth 306, for sponsoring the Email Station.

Echo Around the World

Located at the ASE Headquarters booth #708, 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 21, 4:30 pm - 6:30 pm

All attendees are invited to celebrate ASE 2014 at the President's Reception, hosted by ASE President, Benjamin Byrd III, 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 from many stations throughout the hall.

Silver Anniversary Reception

Monday, June 23, 2:45 pm - 3:30 pm

Come celebrate the Silver Anniversary of ASE's Scientific Sessions. To show gratitude to everyone involved in this year's Silver Anniversary, ASE is pleased to offer one final opportunity in Portland for attendees and industry representatives to network with colleagues and friends while enjoying complimentary hors d'oeuvres and refreshments.

SCIENCE & TECHNOLOGY THEATER SCHEDULE

SATURDAY, JUNE 21, 2014

11:30 am - 1:00 pm

Modern Day Contrast Themes, presented by Lantheus Medical Imaging, Inc.



Join expert faculty in an interactive panel discussion on key topics of interest to the echo community followed by a moderated Q&A session. Hear the latest on global echo contrast topics and experiences, learn actionable best practices, and gather thought provoking practical insight and advice from your peers.

SUNDAY, JUNE 22, 2014

11:45 am - 1:15 pm

Silver and Gold: Celebrating Echo's Past 25 Years, Looking to the Future,

presented by Philips Healthcare

PHILIPS

To commemorate the Silver Anniversary of the ASE Scientific Sessions, this symposium will profile key milestones in the practice and growth of Echocardiography, as well as explore coming attractions that will continue its advancement in the years to come.

MONDAY, JUNE 23, 2014

11:45 am - 1:15 pm

Change Your View: Enhance Your Echocardiography Images,

presented by Bracco Diagnostics Inc.



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

LIFE FROM INSIDE

TUESDAY, JUNE 24, 2014

11:30 am - 1:00 pm

Innovations and Diagnosis in Management of Patients With Mitral Regurgitation,

presented by Abbott Vascular



Join renowned experts from echocardiography, cardiac surgery, interventional cardiology, and non-invasive cardiology in an interactive panel discussion on the latest innovations in mitral regurgitation diagnoses and treatments.

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 25th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.

Change Your View: Enhance Your Echocardiography Images

Improve Echo Quality with Image Optimizing Techniques

Join Us For A Free Continuing Education Lunch Symposium

Monday, June 23, 2014

11:45 AM — 1:15 PM

Oregon Convention Center

Portland, Oregon

Exhibit Hall B

**Register at
www.EnhancedEcho.com**

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

- Recent Developments in Contrast Echocardiography: Indications, Techniques, and Equipment
Thomas R. Porter, MD, FACC, FASE
- Modern Echocardiography Contrast Media: A Review of Contrast Design and Clinical Trials
Harald Becher, MD, PhD, FRCP
- Worldwide Safety Experience with Contrast Echocardiography
Michael L. Main, MD, FACC, FAHA, FASE, FESC

CME and SDMS CME credit approval is pending.

This activity is not a part of the official ASE 25th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.

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Lantheus Medical Imaging is pleased to present

Modern Day Contrast Themes

Contrast Efficiency

Chair: William A. Zoghbi, MD, FASE, FAHA, MACC
Methodist DeBakey Heart & Vascular Center, Houston, Texas

Contrast Safety

Michael L. Main, MD, FACC, FASE
Saint Luke's Mid America Heart Institute, Kansas City, Missouri

Contrast Operations

Lissa Sugeng, MD, MPH, FACC, FASE
Yale School of Medicine, New Haven, Connecticut

**Worldwide Contrast
Advances**

Roxy Senior, MD, DM, FRCP, FESC, FACC
Royal Brompton Hospital, National Heart and Lung Institute, Imperial College London

Saturday, June 21, 2014
11:30 AM - 1:00 PM

Lunch provided • SDMS credit available

Science and Technology Theatre, Exhibit Hall B
Oregon Convention Center
Portland, Oregon

Register at www.lantheus.com/rsvp

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 25th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.

In accordance with the PhRMA Code on Interactions with Healthcare Professionals and individual state compliance, attendance at this educational program is limited to healthcare professionals. Accordingly, attendance by guests or spouses is not permitted.



Join us for a Science & Technology Theater Event

Silver and Gold: Celebrating Echo's past 25 years, looking to the future

Science & Technology Theater at ASE 2014

Sunday, June 22
11:45 am - 1:15 pm

LOCATION:
Exhibit & Poster Hall

To commemorate the Silver Anniversary of the ASE Scientific Sessions, this symposium will profile key milestones in the practice and growth of Echocardiography, as well as explore coming attractions that will continue its advancement in the years to come.

Chair: Roberto Lang, MD, FASE
University of Chicago Medical Center, Chicago, IL

Agenda

- The evolution of Echo - a clinical perspective
- Joseph Kisslo, MD (Durham, NC)
- The evolution of Echo - a technical perspective
- Dave Prater, MS (Andover, MA)
- The future of Echo in Structural Heart Disease
- Rebecca T. Hahn, MD (New York, NY)
- The future of Echo in Functional Heart Disease
- Melissa Tracy, MD (Chicago, IL)

Science & Technology Theater sessions are not part of the official ASE 25th Annual Scientific Sessions as planned by the Program Committee, or in any way endorsed or affiliated with ASE.



Join Us

Lunch Symposium at ASE 2014



From little hope...
to an improved life

Innovations and Diagnoses in Management of Patients with Mitral Regurgitation

Tuesday, June 24 • 11:30 am - 1:00 pm

Join renowned experts from echocardiography, cardiac surgery, interventional cardiology, and non-invasive cardiology in interactive panel discussions on the latest innovations in mitral regurgitation diagnoses and treatments.

Location: Science & Technology Theater, located in the Exhibit & Poster Hall

This activity is not a part of the official ASE 25th Annual Scientific Sessions, as planned by the Program Committee, or in any way endorsed or affiliated with ASE.

EXHIBITOR ASSIGNMENTS

Exhibitors Listed Alphabetically

Company	Booth
American Registry for Diagnostic Medical Sonography (ARDMS)	903
Axess Ultrasound	214
Biodex Medical Systems	612
Bristol-Myers Squibb	216
British Society of Echocardiography (BSE)	910
CAE Healthcare	909
Cardiovascular Credentialing International (CCI)	306
Children's Mercy Kansas City	200
Core Sound Imaging	811
Diagnostic & Interventional Cardiology (DAIC)	416
Digisonics	201
Echo Research and Practice	911
Elsevier, Inc.	908
EncaptureMD - Flexible Informatics	106
Epsilon Imaging	111
Esaote North America	703
European Association of Cardiovascular Imaging (EACVI)	715
Freeland Systems	417
FUJIFILM Medical Systems USA, Inc.	301
GE Healthcare	600
Hawaiian Moon	115
HeartWorks by Inventive Medical Limited	207
Heritage Medical Products, Inc.	517
Hitachi Aloka Medical	803
International Children's Heart Foundation	117
Intersocietal Accreditation Commission (IAC)	109
Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT)	108
Lantheus Medical Imaging, Inc.	613
LUMEDX	100
Mayo Clinic	206
Mayo Clinic Cardiovascular Self-Study	210
McKesson	714
MedAxiom	913
Medical Positioning, Inc.	610

Medstreaming	317
Merge Healthcare	809
Mindray North America	107
National Board of Echocardiography (NBE)	211
Oxford University Press	616
Philips Healthcare	401
ScImage, Inc.	112
Siemens Healthcare	409
Simbionix USA Corporation	912
Sonivate Medical, Inc.	217
Sound Ergonomics	315
StatVideo, LLC	816
Terason	314
Texas Children's Hospital	103
TomTec Corporation	609
Toshiba America Medical Systems, Inc.	307
Trisonics, Inc.	215
UltraLinq Healthcare Solutions	617
UltrasoundJOBS.com	907
University of Washington	414
Ventripoint, Inc.	608
VidiStar	101
Wolters Kluwer Health	202

A Big THANK YOU to



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Booth #703



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Booth #803



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Booth #109

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And, for your continued support, thank you

SIEMENS & TOMTEC
Booth #409 Booth #609

ASEFoundation.org

EXHIBITOR ASSIGNMENTS

Exhibitors Listed Numerically

Company	Booth
LUMEDX	100
VidiStar	101
Texas Children's Hospital	103
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(Descriptions provided by the vendors)

American Registry of Diagnostic Medical Sonographers

(ARDMS).....903

51 Monroe St. PE1
Rockville, MD, 20850
United States
Phone: 1-800-541-9754
Fax: 1-301-738-0313
www.ARDMS.org

ARDMS, is an independent, nonprofit organization that administers examinations and awards credentials in the areas of diagnostic medical sonography (RDMS), diagnostic cardiac sonography (RDCS), vascular interpretation (RPVI) and vascular technology (RVT). With nearly 75,000 certified individuals throughout the world ARDMS is considered a global standard in medical ultrasound credentialing.

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Raleigh, NC, 27607

United States
Phone: 1-800-326-0268
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CCI is a not-for-profit corporation established for the purpose of administering credentialing examinations as an independent credentialing agency. CCI began credentialing cardiovascular professionals in 1968. CCI offers eight credentials which, when earned, demonstrate that the registrant holds fundamental knowledge in the particular cardiovascular specialty. For more information, please visit www.cci-online.org.

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www.childrensmercy.org

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Fax: 1-800-399-7035
www.encapturemd.com

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www.babyheart.org,

The mission of the International Children's Heart Foundation, 501(c)3 non-profit, is to bring the skills and technology to care for children with congenital heart defects in developing countries. The ICHF goal is to make ourselves obsolete through our global medical missions. We do this regardless of race, sex, or religion.

Intersocietal Accreditation Commission (IAC).....109

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www.intersocietal.org

The Intersocietal Accreditation Commission (IAC) provides a voluntary peer review for facilities performing echocardiography and vascular testing to demonstrate the level of patient care they provide. Visit www.intersocietal.org for more information on current guidelines and reimbursement policies linked to the accreditation status of the laboratory, and other valuable information.

Joint Review Committee on Education in Cardiovascular Technology.....108

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As the national examination and certification body for Clinical Echocardiography, the NBE serves as a not-for-profit corporation established to publically recognize those physicians who have completed an approved training program in echocardiography and have passed the ASCeXAM.

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www.soundergonomics.com,

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VIENNA AUSTRIA 3-6 DECEMBER

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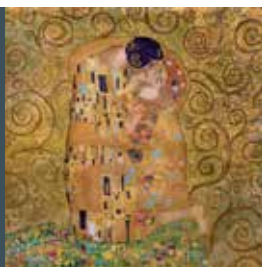
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Berrebi, A.	Edwards Lifesciences (1); Philips Healthcare (1)
Bierig, M.	None
Binder, T.	None
Blauwet, L.	None
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Border, W.	None
Bourque, D.	None
Bremer, M.	None
Broberg, C.	None
Brook, M.	Zonare Medical (4); Siemens Medical (4)
Budoff, M.	GE (2)
Burchill, L.	None
Burgess, P.	None
Burkett, D.	None
Burns, P.	Supersonic Imagine (2); Philips Ultrasound (2)
Burwash, I.	None
Byrd, B.	None
Cardinale, D.	None
Carerj, S.	None
Carney, D.	None
Cavalcante, J.	None

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Chadderdon, S.	None	Glas, K.	None
Chait, A.	None	Goldstein, S.	None
Chanana, N.	None	Gopal, D.	None
Chaudhry, F.	Lantheus Medical Imaging (1)	Gorcsan, J.	GE (4); Toshiba (4); Medtronic (4)
Chelliah, A.	None	Gorman, B.	None
Chin, K.	None	Goudar, S.	None
Chirinos, J.	CVRx (7)	Grimm, R.	None
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Cohen, M.	None	Gutierrez-Fajardo, P.	None
Colan, S.	None	Ha, J.	None
Coon, P.	None	Habib, G.	None
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Davidoff, R.	None	Haluska, B.	None
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DeCara, J.	None	Harmann, L.	None
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Mattoso, A.	None	Park, S.	None
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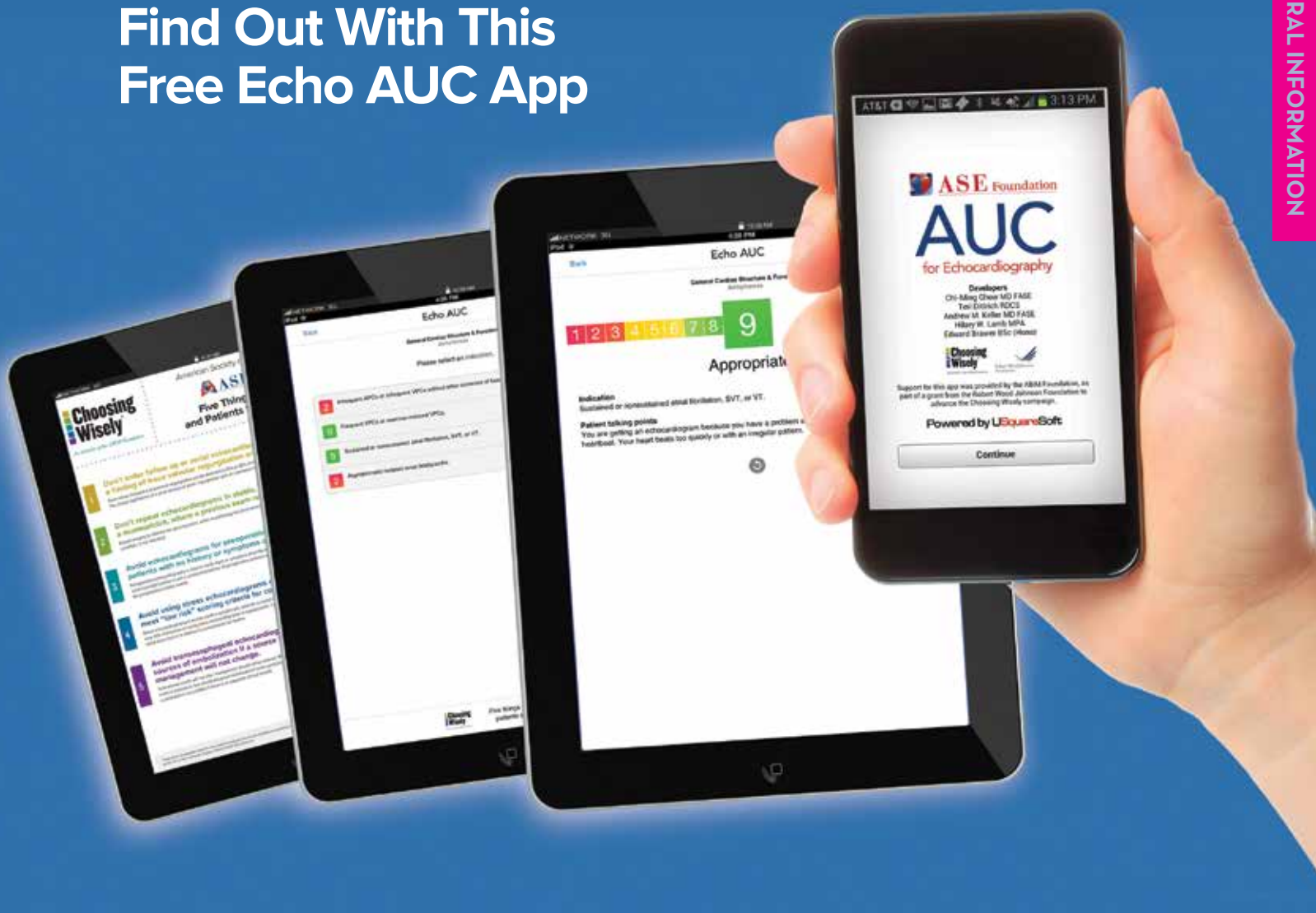
Peterson, A.	None	Shamoun, F.	None
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Younoszai, A.	None
Yu, C.	None
Zhang, Y.	None
Zimmerman, K.	None
Zoghbi, W.	None
ASE Staff	None

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FRIDAY, JUNE 20

Pediatric and Congenital Heart Disease Council Board

6:00 pm – 9:30 pm
Room B110

SATURDAY, JUNE 21

Nominating Committee

9:00 am – 10:00 am
Room B115

ASE Committee Chair Briefing

9:00 am – 10:00 am
Room B110

Bylaws and Ethics Committee

11:00 am – 12:00 pm
Room B112

Awards Committee

1:00 pm – 2:00 pm
Room B112

International Relations Task Force

1:00 pm – 2:30 pm
Room B115

ASE Foundation Taskforce

2:00 pm – 3:00 pm
Room B117

FASE Advisory Committee

2:00 pm – 3:30 pm
Room B114

Industry Roundtable Committee

2:30 pm – 4:00 pm
Room B112

JASE Editorial Board

4:00 pm – 5:30 pm
Room B113

SUNDAY, JUNE 22

Advocacy Committee

9:30 am – 11:00 am
Room B110

Council on Perioperative Echocardiography Board

10:00 am – 11:30 am
Room B112

Guidelines and Standards Committee

11:45 am – 1:15 pm
Room B110

Pediatric 3D Echocardiography Writing Group

12:00 pm – 1:00 pm
Room B117

Pediatric Echocardiography Lab Directors

12:00 pm – 1:00 pm
Room B113

Council on Vascular Ultrasound Board

1:00 pm – 2:30 pm
Room B112

Education Committee

1:00 pm – 2:30 pm
Room B115

Membership Steering Committee

1:00 pm – 2:30 pm
Room B113

Initiative to Standardize Deformation Imaging

3:00 pm – 5:00 pm
Room B113

MONDAY, JUNE 23

Telemedicine and New Technology Task Force

10:00 am – 11:30 am
Room B114

Research Awards Committee

10:15 am – 11:45 am
Room B115

Council on Cardiovascular Sonography Board

10:30 am – 12:00 pm
Room B113

Core Lab Directors Meeting

1:00 pm – 2:00 pm
Room B113

Research Committee

2:00 pm – 3:00 pm
Room B113

Finance Committee

3:45 pm – 4:45 pm
Room B114

TUESDAY, JUNE 24

Scientific Sessions Program Committee

11:45 am – 12:45 pm
Room B114

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