

American Society of Echocardiography

ASE2021

Virtual Experience

A REVOLUTION
IN CARDIOVASCULAR IMAGING

32nd Annual
Scientific Sessions

June 18-21, 2021

#ASE2021

ASEScientificSessions.org

SCHEDULE DETAILS

SCIENTIFIC PROGRAM TRACKS & LEVELS

ADULT CONGENITAL HEART DISEASE (A)

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

CIRCULATION (C)

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

EARLY CAREER (EC)

The Early Career session this year was created by ASE's Emerging Echo Enthusiasts (E3) Specialty Interest Group. Troubleshooting Structural Heart Interventions, on Friday, June 18, is designed for fellows in training and early career physicians and sonographers.

IMAGING ESSENTIALS (E)

This track, designed by lead sonographer practitioners, focuses on basic to advanced echocardiographic concepts and practices for today's cardiac sonographer. These sessions will help to enhance and expand your practical and theoretical knowledge of echocardiography in the assessment of various cardiac diseases. This includes myocardial strain imaging, stress echo and 3D echo. The Brian Haluska Sonographer Research Award Competition will showcase four of the best sonographer research abstracts presented in 2021.

INNOVATION/TECHNOLOGY (IT)

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

ISCHEMIA (I)

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

MYOCARDIUM/FUNCTION (M)

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

PEDIATRIC/CONGENITAL (PC)

The ASE Council on Pediatric and Congenital Heart Disease (PCHD) has designed a program that will highlight the "revolution" in echocardiography and advanced imaging modalities from fetus through adult. Established and upcoming experts in our field will come together to present virtual sessions that will showcase global initiatives through the COVID-19 pandemic, imaging pearls for complex CHD management, debates on CHD nomenclature, applications of AI, and the persistent challenges in assessment of function.

PERIOPERATIVE (P)

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

POINT OF CARE (POC)

The Point of Care Track focuses on this highly valuable modality that is of critical importance as healthcare practitioners utilize handheld devices to further patient care innovations. Sessions focusing on care of critically ill patients are also offered.

SPECIAL SESSIONS (S)

The 2021 Program Committee has designed the Special Sessions Track to highlight outstanding keynote-like educational content. Join us for the special session with the *New England Journal of Medicine* on Saturday morning. Other special sessions include COVID-19, Sound Saves Lives, the Value Summit, and more.

VALVES & STRUCTURAL HEART DISEASE (V)

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

VETERINARY

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

Sessions are identified with the following shapes to assist you in locating education aimed at your level of training.



BASIC



BASIC/INTERMEDIATE



INTERMEDIATE



INTERMEDIATE/ADVANCED



ADVANCED



















BASIC/INTERMEDIATE/ADVANCED

SCHEDULE AT A GLANCE

FRIDAY, JUNE 18

All times are Eastern time.

EXHIBIT HALL OPEN 3:30 – 9:30 PM				
3:30 – 4:30 PM	★ WELCOME TO ASE 2021 AND KEYNOTE PRESENTATION <i>THE REVOLUTION OF ECHOCARDIOGRAPHY</i> BY DR. ERIC TOPOL			
4:45 – 5:45 PM	 Stress Testing: Not Just for Coronary Artery Disease Anymore	 Venous Challenges	 Controversies in Valvular Disease	 Conquering COVID Together <i>(ASE/EACVI Joint Session**)</i>
6:00 – 7:00 PM	 Imaging in Transplantation: The Road from ECMO to Transplantation	 Cardiac Chambers and the Techniques to Image Them	 Cardiomyopathies in Latin America and the USA <i>(DIC-SBC Session*)</i>	 POCUS in Unstable Patients <i>(Critical Care Echo SIG Session)</i>
7:15 – 8:15 PM	 Prosthetic Valve Dysfunction	 How to Utilize Artificial Intelligence for Echocardiography <i>(ASE/JSE Joint Session**)</i>	 Evaluating and Differentiating HFpEF: Making it Real	 Troubleshooting for Current and Upcoming Structural Heart Interventions <i>(Emerging Echo Enthusiasts E3 SIG Session)</i>
8:30 – 9:30 PM	 The Right Stuff	 Myocardial Strain Imaging	 Challenges of the Systemic Ventricle	 Following the Contrast Guidelines: Break Out the Bubbles!

* ASE International Alliance Partner Session. (DIC-SBC) Department of Cardiovascular Imaging of the Brazilian Society of Cardiology

** ASE International Alliance Partner Joint Sessions. (EACVI) European Association of Cardiovascular Imaging. (JSE) Japanese Society of Echocardiography

ADULT CONGENITAL HEART DISEASE (A)

MYOCARDIUM/FUNCTION (M)

CIRCULATION (C)

PEDIATRIC/CONGENITAL (PC)

EARLY CAREER (EC)

PERIOPERATIVE (P)

IMAGING ESSENTIALS (E)

POINT OF CARE (POC)

INNOVATION/TECHNOLOGY (IT)

SPECIAL SESSIONS (S)

ISCHEMIA (I)

VALVES & STRUCTURAL HEART DISEASE (V)

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

Schedule subject to change. For detailed information, visit ASEScientificSessions.org.

3:30 PM – 4:30 PM

★ Welcome to ASE 2021 & Keynote Presentation

Chairs: J. Hung, M. Main

3:30 PM – 3:33 PM

Welcome to ASE 2021
M. Main

3:33 PM – 3:35 PM

Introduction of Keynote Speaker Dr. Eric Topol
J. Hung

3:35 PM – 4:05 PM

Keynote Presentation: A Revolution in Cardiovascular Imaging
E. Topol

4:05 PM – 4:30 PM

Question & Answer

4:45 PM – 5:45 PM

▲ Stress Testing: Not Just for Coronary Artery Disease Anymore

Chairs: B. Fey, T. Ryan

4:45 PM – 4:47 PM

Session Introduction
T. Ryan

4:47 PM – 4:57 PM

Mitral Valve Prolapse and Mitral Regurgitation: What's Gained By A Stress Test?
A. Davis

4:57 PM – 5:07 PM

Mitral Stenosis and Bike Stress Testing
H. Engstrom

5:07 PM – 5:17 PM

Hypertrophic Obstructive Cardiomyopathy Stress: What Gradients are Needed?
H. Nguyen

5:17 PM – 5:27 PM

Low Flow Aortic Stenosis: How To Do the Numbers On the Fly
A. Dillenbeck

5:27 PM – 5:37 PM

Diastolic Stress Test: When Is It Needed?
C. Frye

5:37 PM – 5:45 PM

Question & Answer

4:45 PM – 5:45 PM

◆ Venous Challenges

Chairs: D. Dudzinski, F. Shamoun

4:45 PM – 4:55 PM

Pulmonary Embolism Risk Stratification for the Echocardiographer
C. Fanola

4:55 PM – 5:05 PM

Surgical and Percutaneous Options for Interventional Pulmonary Embolism Treatment
P. Thangudu

5:05 PM – 5:15 PM

Mechanical Support During Pulmonary Embolism Intervention: The Role of Echo
D. Dudzinski

5:15 PM – 5:25 PM

Navigating Imaging and Treatment Options for Deep Vein Thrombosis
S. Abramowitz

5:25 PM – 5:35 PM

Role of Direct Oral Anticoagulants in Venous Thromboembolism
B. Wells

5:35 PM – 5:45 PM

Question & Answer

4:45 PM – 5:45 PM

▼ Controversies in Valvular Disease

Chairs: J. Oh, D. Wiener

4:45 PM – 4:57 PM

Case: Moderate Aortic Stenosis/Moderate Aortic Regurgitation
J. Strom

4:57 PM – 5:09 PM

Case: Functional Mitral Regurgitation: When Should I Clip?
M. Saric

5:09 PM – 5:21 PM

Case: Small Left Ventricular Outflow Tract, Should I Proceed with TMVR?
O. Khalique

5:21 PM – 5:33 PM

Case: Percutaneous Treatments for Carcinoid Valvular Disease
K. Tolstrup

5:33 PM – 5:45 PM

Question & Answer

4:45 PM – 5:45 PM

PC Conquering COVID Together

(ASE/EACVI Joint Session)

Chairs: P. Barker, J. Marek



EACVI
European Association of
Cardiovascular Imaging

4:45 PM – 4:53 PM

Report from First Line Personnel: Sonographers

J. Lipinski

4:53 PM – 5:01 PM

Lessons Learned: Echo Protocols

C. Altman

5:01 PM – 5:09 PM

Impact on Echocardiography Education

L. Frank

5:09 PM – 5:17 PM

Cardiac Involvement: Multimodality Imaging

O. Miller

5:17 PM – 5:25 PM

Quality Improvement and Appropriate Use Criteria in COVID Era

R. Sachdeva

5:25 PM – 5:30 PM

Abstract Presentation: Application of Appropriate Use Criteria of Outpatient Transthoracic Echocardiography for Patients Undergoing Telehealth Visits During Early Phase of the COVID-19 Pandemic

D. Kernizan

5:30 PM – 5:35 PM

Abstract Presentation: Speckle Tracking Echocardiographic Findings in Children with MIS-C and Acute COVID-19

P. Minocha

5:35 PM – 5:45 PM

Question & Answer

6:00 PM – 7:00 PM

P Imaging in Transplantation: The Road from ECMO to Transplantation

Chairs: Y. Maldonado, M. Taylor

6:00 PM – 6:15 PM

Heart Transplantation

S. McCartney

6:15 PM – 6:30 PM

Veno-Venous ECMO: Who, When, Contradictions

S. Pai Cole

6:30 PM – 6:45 PM

Lung Transplantation

K. Subramaniam

6:45 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

M Cardiac Chambers and the Techniques to Image Them

Chairs: M. Picard, W. Tsang

6:00 PM – 6:10 PM

The Left Ventricle

R. Lang

6:10 PM – 6:20 PM

The Right Ventricle

D. Hur

6:20 PM – 6:30 PM

The Atria

L. Thomas

6:30 PM – 6:40 PM

M Mode Crasher

R. Martin

6:40 PM – 6:50 PM

The Pericardium

A. Klein

6:50 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

I Cardiomyopathies in Latin America and USA

(ASE International Alliance Partner Session. (DIC-SBC) Department of Cardiovascular Imaging of the Brazilian Society of Cardiology)

Chairs: A. Almeida, A. Pearlman

6:00 PM – 6:12 PM

Chagas Heart Disease

M. Vieira

6:12 PM – 6:24 PM

Hypertrophic Cardiomyopathies

M. Maron

6:24 PM – 6:36 PM

Genetic Cardiomyopathies

J. Barros Pena

6:36 PM – 6:48 PM

Right Ventricular Dysplasia

V. Rigolin

6:48 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

POCUS in Unstable Patients

(ASE Critical Care SIG Session)

Chairs: J. Kasal, N. Panebianco

6:00 PM – 6:05 PM

Session Introduction

J. Kasal

6:05 PM – 6:15 PM

Volume Assessment in Shock

B. Arya

6:15 PM – 6:25 PM

Hypoxemia and POCUS: Including Lung and Diastology

S. Nikravan

6:25 PM – 6:35 PM

Multimodal POCUS in COVID-19

A. Goffi

6:35 PM – 6:45 PM

Mechanical Circulatory Support and POCUS

S. Pai Cole

6:45 PM – 7:00 PM

Question & Answer

7:15 PM – 8:15 PM

Prosthetic Valve Dysfunction

Chairs: B. Khandheria, N. Nanda

7:15 PM – 7:27 PM

How to Assess High Prosthetic Gradients

W. Zoghbi

7:27 PM – 7:39 PM

Thrombus vs. Pannus

S. Walling

7:39 PM – 7:51 PM

Should All Prosthetic Valves Be Biologic?

S. Pislaru

7:51 PM – 8:03 PM

Valve in Valve for Prosthetic Valve Dysfunction

G. Mackensen

8:03 PM – 8:15 PM

Question & Answer

7:15 PM – 8:15 PM

How to Utilize Artificial Intelligence for Echocardiography *(ASE/JSE Joint Session)*



Chairs: T. Abraham, C. Izumi

7:15 PM – 7:27 PM

Assessment of Left Ventricular Systolic Function

K. Kusunose

7:27 PM – 7:39 PM

Assessment of Left Ventricular Diastolic Function

N. Kagiya

7:39 PM – 7:51 PM

E21 Research – DeepEcho: Echocardiogram Image Normalization Using Deep Learning for Detection and Prognostication of Heart Failure

P. Pellikka

7:51 PM – 8:03 PM

Solving Old Questions with New Solutions: Artificial Intelligence Now and Where It Needs To Go

G. Tison

8:03 PM – 8:15 PM

Question & Answer

7:15 PM – 8:15 PM

Evaluating and Differentiating HFpEF: Making it Real

Chairs: A. Radhakrishnan, N. Weissman

7:15 PM – 7:23 PM

Case Presentation

TBD

7:23 PM – 7:33 PM

The Importance of HFpEF and the Silver Tsunami

C. Lam

7:33 PM – 7:43 PM

Definitions of Diastology: Present and Future (Strain)

S. Nagueh

7:43 PM – 7:53 PM

Diastolic Stress Testing

R. Ibáñez-Arenas

7:53 PM – 8:03 PM

Phenotyping HFpEF

S. Shah

8:03 PM – 8:15 PM

What Is Helpful to Report? Clinical Practice

Panel

7:15 PM – 8:15 PM

EC Troubleshooting for Current and Upcoming Structural Heart Interventions

(ASE Emerging Echo Enthusiasts E3 SIG Session)

Chairs: R. Hahn, R. Thamman

7:15 PM – 7:27 PM

Tricuspid Valve Interventions

L. Safi

7:27 PM – 7:39 PM

Paravalvular Leak Closure Procedures

E. Garcia-Sayan

7:39 PM – 7:51 PM

Mitral Valve Intervention Misadventures

S. Harb

7:51 PM – 8:03 PM

Left Atrial Appendage Closure

T. Chen

8:03 PM – 8:15 PM

Question & Answer

8:30 PM – 9:30 PM

P The Right Stuff

Chairs: M. Hollon, S. Pai Cole

8:30 PM – 8:40 PM

Are TTE and TEE Equivalent for the Right Side in the Perioperative Space

J. Puthumana

8:40 PM – 8:50 PM

Role for 3D TEE in Right Ventricle Imaging

A. Nicoara

8:50 PM – 9:00 PM

Right Ventricular Strain

K. Howard-Quijano

9:00 PM – 9:10 PM

Pulmonary Hypertension and Echo

F. Haddad

9:10 PM – 9:20 PM

Tricuspid Valve Imaging

D. Muraru

9:20 PM – 9:30 PM

Question & Answer

8:30 PM – 9:30 PM

E Myocardial Strain Imaging

Chairs: E. Donal, M. Umland

8:30 PM – 8:32 PM

Session Introduction

M. Umland

8:32 PM – 8:42 PM

Strain 101: The Basics

C. Kramer

8:42 PM – 8:52 PM

Illustrative Strain Cases: Amyloid, Hypertrophic Cardiomyopathy, Chemotherapy

K. Billick

8:52 PM – 9:02 PM

Cases: Trouble-Shooting Strain Errors

I. Vaitenas

9:02 PM – 9:12 PM

Myocardial Work Index/Efficiency

N. Edwards

9:12 PM – 9:22 PM

Reimbursement

K. Horton

9:22 PM – 9:30 PM

Question & Answer

8:30 PM – 9:30 PM

PC Challenges of the Systemic Ventricle

Chairs: C. Fleishman, B. Printz, J. Robinson

8:30 PM – 8:38 PM

Assessment of the Mitral Valve

D. Harrid

8:38 PM – 8:46 PM

Surgeons Perspective: Imaging Details That Help Guide Surgical Planning "Borderline Left Ventricle"

S. Emani

8:46 PM – 8:54 PM

Long-Term Challenges in Assessment of a Borderline Left and Single Ventricles

R. Rathod

8:54 PM – 9:02 PM

Imaging Guide to interventions and Planning for Surgery

M. Renno

9:02 PM – 9:10 PM

Future Directions in Evaluation of Stroke Volume Valve and Function (Focus on Valves)

N. Khoo

9:10 PM – 9:18 PM

Lymphatic Imaging: Where Are We Today

D. Rabinowitz

9:18 PM – 9:30 PM

Question & Answer

8:30 PM – 9:30 PM

I Following the Contrast Guidelines: Break Out the Bubbles!

Chairs: M. Bremer; D. Sanborn

8:30 PM – 8:42 PM

Optimizing Images for Left Ventricular Opacification and Myocardial Contrast Echocardiography: Contrast Settings, Bubble Behavior

M. Park

8:42 PM – 8:54 PM

Should I or Shouldn't I? Safety, Peds, and Pregnancy

S. Kutty

8:54 PM – 9:06 PM

Everyday "Novel" Applications: Tumor, Thrombi, and Trouble Post Myocardial Infarction

J. Olson

9:06 PM – 9:18 PM

Beyond Our Borders in Critical Care: Contrast Outside the Echo Lab

C. Bennett












9:18 PM – 9:30 PM

Question & Answer

SCHEDULE AT A GLANCE

SATURDAY, JUNE 19

All times are Eastern time.

EXHIBIT HALL OPEN 10:00 AM – 6:30 PM				
9:15 – 9:45 AM	TECHNOLOGY SHOWCASE: GE HEALTHCARE			
10:00 – 10:30 AM	★ STATE OF ASE, 2021 AWARDS PRESENTATION, AND INCOMING PRESIDENT'S MESSAGE			
10:30 AM – 12:00 PM	 Clinical Pathologic Conference: Case Records of the Massachusetts General Hospital <i>Special Session with the New England Journal of Medicine</i>		 Fetal Symposium: In the Midst of a Revolution	
12:10 – 1:10 PM	SCIENCE & TECHNOLOGY THEATER: LANTHEUS MEDICAL IMAGING, INC.			
12:10 – 1:10 PM	VISIT EXHIBIT HALL			
1:15 – 2:15 PM	 New Hypertrophic Cardiomyopathy Guidelines: Updated Approach to Diagnosis and Treatment	 Adult Congenital Heart Disease I: Essentials	 Using Echocardiography to Guide the Management of Critically Sick Infants <i>(Neonatal Hemodynamics TnECHO SIG Session)</i>	 BAD Ventricular Assist Device Problems
2:30 – 4:00 PM	VISIT EXHIBIT HALL			
2:30 – 3:00 PM	TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE			
3:00 – 4:00 PM	SCIENCE & TECHNOLOGY THEATER: SIEMENS HEALTHINEERS			
4:05 – 4:10 PM	 WELLNESS BREAK			
4:15 – 5:15 PM	 COVID-19 Special Session	 Innovations in Technology and Cardiovascular Imaging	 Imaging Saves the Day: Complications During Transcatheter Procedures <i>(Interventional Echocardiography SIG Session)</i>	 The Elusive Right Ventricle
5:30 – 6:30 PM	VISIT EXHIBIT HALL			
5:30 – 6:00 PM	TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE			

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VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED

Schedule subject to change. For detailed information, visit ASEScientificSessions.org.

10:00 AM – 10:30 AM

S State of ASE, 2021 Awards Presentations, and Incoming President's Message

Chair: J. Hung

10:00 AM – 10:10 AM

State of ASE

J. Hung

10:10 AM – 10:20 AM

Board of Directors Induction and 2021 Awards Presentation

J. Hung

10:20 AM – 10:30 AM

Incoming President's Address

R. Stainback

10:30 AM – 12:00 PM

**★ S Clinical Pathologic Conference:
Case Records of the Massachusetts
General Hospital**

Special Session with the New England Journal of Medicine

Chairs: D. Dudzinski, J. Hung

Speakers: A. Karaa, S. Lubitz, M. Main, P. Pellikka,

T. Tsang, A. Tower-Rader

10:30 AM – 12:00 PM

**PC Fetal Symposium: In the Midst of a
Revolution**

Chairs: B. Arya, S. Maskatia, N. Pinto

10:30 AM – 10:40 AM

Case: Managing Tachyarrhythmias Challenges

Presenter: E. Rueda-de-Leon

Discussant: S. Killen

10:40 AM – 10:45 AM

Question & Answer

10:45 AM – 10:55 AM

Case: Managing Bradycardia: Role of Magnetocardiography

Presenter: R. Lorber

Discussant: J. Strasburger

10:55 AM – 11:00 AM

Question & Answer

11:00 AM – 11:10 AM

Case: Neurodevelopment Prediction and Chronic Maternal Oxygenation Therapy

Presenter: S. Peyvandi

Discussant: A. Moon-Grady

11:10 AM – 11:15 AM

Question & Answer

11:15 AM – 11:25 AM

Case: Illustrate Inclusion of Genetic Counseling

Presenter: S. Nees

Discussant: T. Tacy

11:25 AM – 11:30 AM

Question & Answer

11:30 AM – 11:40 AM

Case: Utility of Fetal MRI

Presenter: A. Cheliah

Discussant: M. Donofrio

11:40 AM – 11:45 AM

Question & Answer

11:45 AM – 11:55 AM

Case: Multiple Gestation: Dilemmas of Diagnosis Twin-to-Twin Transfusion Syndrome

Presenter: T. Doan

Discussant: S. Morris

11:55 AM – 12:00 PM

Question & Answer

1:15 PM – 2:15 PM

**▲ M New Hypertrophic Cardiomyopathy
Guidelines: Updated Approach to
Diagnosis and Treatment**

Chairs: A. Hays, D. Phelan

1:15 PM – 1:25 PM

Updates in the Diagnosis and Echo Approach of Hypertrophic Cardiomyopathy (Guideline)

A. Woo

1:25 PM – 1:35 PM

When to Stress Test in Hypertrophic Cardiomyopathy

D. Fan

1:35 PM – 1:45 PM

Novel Treatment Approaches and Echo Follow Up in Hypertrophic Cardiomyopathy

L. Liu

1:45 PM – 1:55 PM

Echo Guidance of Invasive Procedures: Alcohol Septal Ablation and Myectomy

F. Cobey

1:55 PM – 2:05 PM

E21 Research – Echocardiographic Optimization of Ultrasound Septal Reduction for Hypertrophic Cardiomyopathy

B. Nazer

2:05 PM – 2:15 PM

Question and Answer

1:15 PM – 2:15 PM

A Adult Congenital Heart Disease I: Essential

Chairs: E. Shea, M. Wasserman

1:15 PM – 1:17 PM

Session Introduction

G. Lui

1:17 PM – 1:27 PM

Is the Heart on the Left or the Right? Dextrocardia, Malposition, and Heterotaxia

J. Kreeger

1:27 PM – 1:37 PM

Anomalous Coronary Artery in Adults: Technique Dilemmas?

J. Mercandetti

1:37 PM – 1:47 PM

How to Use Novel Technology in ACHD: 3D Echocardiography, Strain, and More

K. Thorson

1:47 PM – 1:57 PM

Rapid Fire Cases: Common and Unusual Unrepaired ACHD Cases – Learning Opportunity for Young Scholars

G. Lui

1:57 PM – 2:07 PM

Aortic Coarctation Repair: Overview and Its Complications

R. Berokhim

2:07 PM – 2:15 PM

Question & Answer

1:15 PM – 2:15 PM

PC Using Echocardiography to Guide the Management of Critically Sick Infants

(ASE Neonatal Hemodynamics TnECHO SIG Session)

Chairs: W. Lai, P. McNamara

1:15 PM – 1:25 PM

Fetal Cardiac Function and Hemodynamics

L. Freud

1:25 PM – 1:35 PM

Transitional Physiology of Premature Birth

A. EL-Khuffash

1:35 PM – 1:45 PM

Patent Ductus Arteriosus Hemodynamics

P. Levy

1:45 PM – 1:55 PM

E21 Research – Bedside Cardiovascular Monitoring of Neonates with Patent Ductus Arteriosus

O. Kripfgans

1:55 PM – 2:05 PM

Hypoxic Ischemic Encephalopathy in Newborn Infants

R. Giesinger

2:05 PM – 2:15 PM

Question & Answer

1:15 PM – 2:15 PM

P BAD Ventricular Assist Device Problems

Chairs: N. Silverton, M. Taylor

1:15 PM – 1:27 PM

The Right Side Fails

J. Cowger

1:27 PM – 1:39 PM

Aortic Regurgitation

A. Finley

1:39 PM – 1:51 PM

RAMP Optimization

P. Song

1:51 PM – 2:03 PM

Pump Thrombosis and Ventricular Assist Device Infection

Y. Maldonado

2:03 PM – 2:15 PM

Question & Answer

4:15 PM – 6:15 PM

S COVID-19 Special Session

Chairs: B. Byrd, C. Taub

4:15 PM – 4:25 PM

Arterial Complications

M. Vorsanger

4:25 PM – 4:35 PM

Venous Complications

G. Piazza

4:35 PM – 4:45 PM

Myocardial Complications

V. Sorrell

4:45 PM – 4:55 PM

Update on Vaccines and Therapeutics

M. Nassif

4:55 PM – 5:15 PM

WASE Study Results

F. Asch, R. Lang

5:55 PM - 6:05 PM

Echocardiography Predicts Death in Patients with Acute COVID-19 Infection: The World Alliance Societies of Echocardiography (WASE-COVID Study Part 1)
R. Lang

6:05 PM - 6:15 PM

Echocardiography Predicts Death in Patients with Acute COVID-19 Infection: Value of Artificial Intelligence. The World Alliance Societies of Echocardiography (WASE-COVID Study Part 2)
F. Asch

4:15 PM – 5:15 PM

Innovations in Technology and Cardiovascular Imaging

Chairs: B. Soriano, S. Srivastava

4:15 PM – 4:23 PM

Artificial Intelligence in Clinical Decision Making: Are We Ready?
B. Bijmens

4:23 PM – 4:31 PM

Challenges in Work Flow Infrastructure: Building Data Repositories
C. Reddy

4:31 PM – 4:39 PM

Computational Modeling: Personalizing Care
M. Cartoski

4:39 PM – 4:47 PM

Healthcare Disparities in Congenital Heart Disease: Risk Stratification Using Imaging and Artificial Intelligence
D. Chowdhury

4:47 PM – 4:55 PM

Are We Any Closer to Understanding Blood Flow Dynamics? Blood Speckle Tracking vs. Vector Flow Mapping
P. Sengupta

4:55 PM – 5:00 PM

Case: Imaging of Aorta: Flow Characteristics
J. Soslow

5:00 PM – 5:05 PM

Case: POCUS in Congenital Heart Disease
G. Tatum

5:05 PM – 5:15 PM

Panel Discussion

4:15 PM – 5:15 PM

Imaging Saves the Day: Complications During Transcatheter Procedures

(ASE Interventional Echocardiography SIG Session)
Chairs: S. Kort, A. Mediratta

4:15 PM – 4:27 PM

Careful Where You Place the Clip: Can You Guess What Went Wrong?
S. Little

4:27 PM – 4:39 PM

Imaging the Tricuspid Valve: Which Leaflet is Involved?
A. Narang

4:39 PM – 4:51 PM

Atrial Septal Defect and Patent Foramen Ovale Closure Are Straightforward Structural Procedures: Is TEE Imaging Necessary?
A. Vainrib

4:51 PM – 5:03 PM

What Went Wrong During This Percutaneous Left Atrial Appendage Closure?
E. Gill

5:03 PM – 5:15 PM

Question & Answer

4:15 PM – 5:15 PM

The Elusive Right Ventricle

Chairs: G. Strachan, L. Sugeng

4:15 PM – 4:17 PM

Session Introduction
L. Sugeng

4:17 PM – 4:27 PM

Right Ventricle Chamber Quantification: 2D/3D
N. Edwards

4:27 PM – 4:37 PM

Estimation of Pulmonary Artery Pressure Besides the Pulmonary Artery Systolic Pressure
B. Anderson

4:37 PM – 4:47 PM

Right Ventricular Strain and Function Assessment
R. Perry

4:47 PM – 4:57 PM

Tricuspid Valve Anatomy 2D/3D
M. Yamat

4:57 PM – 5:07 PM

Cases from the Emergency Department: Pulmonary Embolism, Right Ventricular Dysplasia, Arrhythmogenic Right Ventricular Dysplasia
M. Kraushaar
























5:07 PM – 5:15 PM

Question & Answer

SCHEDULE AT A GLANCE

SUNDAY, JUNE 20

All times are Eastern time.

EXHIBIT HALL OPEN 10:30 AM – 6:45 PM				
10:30 – 11:00 AM	  WELCOME AND 32ND ANNUAL EDLER LECTURE <i>ECHO, EQUITY, AND EMPOWERMENT: A FRAMEWORK FOR THE FUTURE</i> BY MADHAV SWAMINATHAN, MD, FASE			
11:00 AM – 12:00 PM	 Value Summit: An Insider's View of What's Happening in Washington, DC	 Imaging in Cardio-Oncology: Making it Real	 Adult Congenital Heart Disease II: Challenging Pathology	  New Frontiers in Ultrasound: POCUS and Beyond
12:15 – 1:15 PM	SCIENCE & TECHNOLOGY THEATER: ABBOTT			
12:15 – 1:15 PM	VISIT EXHIBIT HALL			
1:20 – 1:25 PM	 WELLNESS BREAK			
1:30 – 2:30 PM	 Value Summit: Maintaining Value in the Echo Lab	  Arthur E. Weyman Young Investigator's Award Competition and 22 nd Annual Feigenbaum Lecture <i>Right Heart, Right Now: The Role of 3D Echocardiography</i> by Denisa Muraru, MD	 Imaging Guide to Intervention on Atrioventricular Valves	 Myocardial Ischemia Debate: Bubbles vs. Rads
2:45 – 4:00 PM	1:30 – 3:00 PM VISIT EXHIBIT HALL			
3:00 – 4:00 PM	SCIENCE & TECHNOLOGY THEATER: GE HEALTHCARE			
4:00 – 5:00 PM	 Echo in Women by Women in Echo	  Aerospace Cardiology <i>Gardin Lecture: My Life in Space: Impact of Biologic Science</i> by Serena Auñón-Chancellor, MD, MPH	 TAVR: Still Plenty to Learn in 2021 <i>Kalmanson Lecture: Resolving Discrepancies in Aortic Stenosis</i> by Catherine Otto, MD, FASE	 The Brian Haluska Sonographer Research Award Competition
5:15 – 5:45 PM	VISIT EXHIBIT HALL			
5:15 – 5:45 PM	TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE			
5:45 – 6:45 PM	 Sound Saves Lives	  Challenges on the Right	 Play It Again Sam: Multi-Disciplinary Team Approach to Recurrent Infective Endocarditis <i>(ASE/EACVI Joint Session*)</i>	 Aortic Pathology and Complications: Don't Foul Out
7:00 – 8:30 PM	ASE FOUNDATION VIRTUAL RESEARCH AWARDS GALA INCLUDING AN ECHO GAME SHOW!			

ADULT CONGENITAL HEART DISEASE (A)

CIRCULATION (C)

EARLY CAREER (EC)

IMAGING ESSENTIALS (E)

INNOVATION/TECHNOLOGY (IT)

ISCHEMIA (I)

MYOCARDIUM/FUNCTION (M)

PEDIATRIC/CONGENITAL (PC)

PERIOPERATIVE (P)

POINT OF CARE (POC)

SPECIAL SESSIONS (S)

VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED

Schedule subject to change. For detailed information, visit ASEScientificSessions.org.

10:30 AM – 11:00 AM

★ 32nd Annual Edler Lecture

Chair: *M. Main*

10:30 AM – 10:33 AM

Welcome and Introduction to the Edler Lecture
M. Main

10:33 AM – 10:53 AM

Edler Lecture: Echo, Equity, and Empowerment:
A Framework for the Future
M. Swaminathan

10:53 AM – 11:00 AM

Thank you
M. Main

11:00 AM – 12:00 PM

**◆ Value Summit: An Insider's View of
Happenings in Washington, DC**

Chair: *M. Picard*

11:00 AM – 11:30 AM

Views from the Hill, Our ASE Lobbyists
D. Rosen

11:30 AM – 12:00 PM

Views from the Hill, Our ASE Lobbyists
L. Aronson

11:00 AM – 12:00 PM

▲ Imaging in Cardio-Oncology: Making it Real

Chairs: *J. Liu, M. Scherrer-Crosbie*

11:00 AM – 11:10 AM

Cancer Therapy Related Cardiac Dysfunction: The Role
of Ejection Fraction/Global Longitudinal Strain in Guiding
Therapeutic Intervention
N. Akhter

11:10 AM – 11:20 AM

Evaluation and Management of Immune Checkpoint Inhibitor
Induced Myocarditis: Is Echo Helpful?
J. Kim

11:20 AM – 11:30 AM

Radiation Induced Heart Disease: Why Worry?
D. Gupta

11:30 AM – 11:40 AM

Cardio-Oncology Echo Report: What the Oncologists Need to Know
A. Barac

11:40 AM – 11:50 AM

Multimodality Imaging in the Assessment of Cardiac Tumors
and Masses
J. Banchs

11:50 AM – 12:00 PM

Question & Answer

11:00 AM – 12:00 PM

**◆ Adult Congenital Heart Disease II:
Challenging Pathology**

Chairs: *K. Thorson, P. Vihn*

11:00 AM – 11:02 AM

Session Introduction
K. Thorson

11:02 AM – 11:12 AM

Tetralogy of Fallot in Adults: Focus on the "Right"
J. Churchill

11:12 AM – 11:22 AM

Dextro-Transposition of the Great Arteries Post Atrial Switch:
How to Handle the Remodeling Ventricles by Echo
C. West

11:22 AM – 11:32 AM

Fontan Procedure Overview
P. Ermis

11:32 AM – 11:42 AM

ACHD in Pregnancy: When to Worry?
D. Defaria Yeh

11:42 AM – 11:52 AM

Double Trouble: Expected & Unexpected Paired Findings
R. Stainback

11:52 AM – 12:00 PM

Question & Answer

11:00 AM – 12:00 PM

**◆ POCUS New Frontiers in Ultrasound:
POCUS and Beyond**

Chair: *S. Raza, H. Rakowski*

11:00 AM – 11:05 AM

Session Introduction
H. Rakowski

11:05 AM – 11:15 AM

Point of Care Ultrasound Training for the Clinician
J. Kirkpatrick

11:15 AM – 11:25 AM

The Different Variations in Ultrasound Delivery: HOCUS, POCUS!
G. Rose

11:25 AM – 11:35 AM

Certification in Critical Care Ultrasound: What are the Implications?
A. Labovitz

11:35 AM – 11:45 AM

Training Paradigms in Point of Care
P. Mayo

11:45 AM – 12:00 PM

Question & Answer

1:30 PM – 2:30 PM

Value Summit: Maintaining Value in the Echo Lab

Chairs: C. Mitchell, P. Rahko

1:30 PM – 1:40 PM

ImageGuideEcho Registry: Quality and Role in Echo Lab Accreditation
M. Bremer

1:40 PM – 1:50 PM

The CPT RUC Process and Echocardiography
R. Wright

1:50 PM – 2:00 PM

Trends in Echocardiography
S. Mayer

2:00 PM – 2:10 PM

Balancing Quality and Sustainability in the Echo Lab
D. Skolnick

2:10 PM – 2:20 PM

Promotion of Sonographers in the Echo Lab and ASE Leadership
P. Knoll

2:20 PM – 2:30 PM

Question & Answer

1:30 PM – 3:00 PM

Arthur E. Weyman Young Investigator's Award Competition and 22nd Annual Feigenbaum Lecture

Chair: S. Mulvagh

Judges: B. Cosyns, J. Hung, J. Kirkpatrick, S. Siu, A. Weyman, K. Yamamoto

1:30 PM – 1:35 PM

Welcome and Introduction
S. Mulvagh

1:35 PM – 1:47 PM

YIA-01: Pediatric Normal Values and Z-Score Equations for Left and Right Ventricular Strain by Two-Dimensional Speckle-Tracking Echocardiography Derived from 1000 Healthy Children
J. Romanowicz

1:47 PM – 1:59 PM

YIA-02: Morphometric Patterning of Acoustic Texture Parameters for Rapid Screening of Cardiac Remodeling Using Point-of-care Ultrasound Imaging
Q. Hathaway

1:59 PM – 2:11 PM

YIA-03: Association of Hypertensive Disorders of Pregnancy with Coronary Microvascular Function 8-10 Years after Delivery
M. Countouris

2:11 PM – 2:23 PM

YIA-04: Myocardial Stiffness by Cardiac Elastography in Patients with Hypertrophic Cardiomyopathy: Relation with Myocardial Fibrosis and Clinical Outcomes
J. Naser

2:23 PM – 2:25 PM

Concluding Remarks
S. Mulvagh

2:25 PM – 2:28 PM

Introduction to the Feigenbaum Lecturer
J. Hung

2:28 PM – 2:48 PM

Feigenbaum Lecture: Right Heart, Right Now: The Role of 3D Echocardiography
D. Muraru

2:48 PM – 2:53 PM

Recognition of Feigenbaum Lecture and Concluding Remarks
H. Feigenbaum

2:53 PM – 3:00 PM

Recognition of Competition Finalists and Winner Announcement
A. Weyman

1:30 PM – 2:30 PM

Imaging Guide to Intervention on Atrioventricular Valves

Chairs: J. Kovalchin, M. Puchalski, L. Young

1:30 PM – 1:38 PM

Ebstein's Valve and Function
M. Friedberg

1:38 PM – 1:46 PM

A Surgeons Approach to Ebstein's Anomaly
C. Pizarro

1:46 PM – 1:54 PM

Common Atrioventricular Canal Assessment: Most Challenging Cases
A. Parthiban

1:54 PM – 2:02 PM

Left Atrioventricular Valve Dysfunction
A. Dorfman

2:02 PM – 2:10 PM

Right Atrioventricular Valve
A. Dragelescu

2:10 PM – 2:18 PM

Left Ventricular Outflow Tract Obstruction in Atrioventricular Septal Defect/Canal
C. Taylor

2:18 PM – 2:30 PM

Panel Discussion

1:30 PM – 2:30 PM

Myocardial Ischemia Debate: Bubbles vs. Rads

Chairs: R. Ronderos, L. Safi

1:30 PM – 1:38 PM

Bubbles vs. Rads! Stress Single Photon Emission Computed Tomography (SPECT) and Positron Emission Tomography (PET) is Best Debater: *P. Chareonthaitawee*

1:38 PM – 1:46 PM

Bubble vs. Rads! Stress Myocardial Contrast Echocardiography is Best Debater: *T. Porter*

1:46 PM – 1:56 PM

Rebuttal: P. Chareonthaitawee, T. Porter

1:56 PM – 2:04 PM

Multimodality Imaging for Chest Pain Diagnosis: Function (Stress Echo) is Best Debater: *J. Bax*

2:04 PM – 2:12 PM

Multimodality Imaging for Chest Pain Diagnosis: Anatomy (Cor CTA) is Best Debater: *P. Douglas*

2:12 PM – 2:22 PM

Rebuttal: J. Bax, P. Douglas

2:22 PM – 2:30 PM

Wrap-up
L. Safi

4:00 PM – 5:00 PM

Echo in Women by Women in Echo

Chairs: E. Michos, R. Thamman

4:00 PM – 4:12 PM

Acute Coronary Syndrome in Women: Myocardial Infarction with Nonobstructive Coronary Arteries, Prinzmetal's Angina, Coronary Microvascular Dysfunction
C. Harrington

4:12 PM – 4:24 PM

Vasculopathies in Women: Fibromuscular Dysplasia and Others
E. Kim

4:24 PM – 4:36 PM

Stress Testing in Women
K. Fleischman

4:36 PM – 4:48 PM

Spontaneous Coronary Artery Dissection: Stress Cardiomyopathy
M. Wood

4:48 PM – 5:00 PM

Question & Answer

4:00 PM – 5:00 PM

Aerospace Cardiology

Chairs: J. Gardin, S. Mankad

4:00 PM – 4:10 PM

Cardiovascular Impact of Microgravity
B. Levine

4:10 PM – 4:20 PM

Imaging in Space: Challenges and Opportunities
J. Thomas

4:20 PM – 4:30 PM

Space Environment, Space Radiation, and the Microcirculation
J. Lindner

4:30 PM – 4:50 PM

Gardin Lecture: My Life in Space: Impact of Biologic Science
S. Auñón-Chancellor

4:50 PM – 5:00 PM

Question & Answer

4:00 PM – 5:00 PM

▼ TAVR Still Plenty More to Learn in 2021

Chairs: L. Gillam, D. Kang

4:00 PM – 4:12 PM

Kalmanson Lecture: Resolving Discrepancies in Aortic Stenosis
C. Otto

4:12 PM – 4:24 PM

What Is A Successful TAVR on Echo in 2021?
J. Del-Bianco

4:24 PM – 4:36 PM

Complications of TAVR
G. Scalia

4:36 PM – 4:48 PM

TAVR for Newer Indications (Aortic Regurgitation, Bicuspid, Moderate Aortic Stenosis)
R. Jain

4:48 PM – 5:00 PM

Question & Answer

4:00 PM – 5:00 PM

E The Brian Haluska Sonographer Research Award Competition

Chair: S. Mulvagh

Judges: B. Anderson, K. Collins, J. Kirkpatrick

4:00 PM – 4:03 PM

Welcome and Introduction of Judges
S. Mulvagh

4:03 PM – 4:13 PM

SIA-01: Short- and Long-Term Impact of Left Bundle Branch Block on Myocardial Work Performance
B. Ge

4:13 PM – 4:23 PM

SIA-02: Formal Sonographer Feedback Leads to Reduction in Sonographer Technical Errors and Scan Omissions
S. Fostello

4:23 PM – 4:33 PM

SIA-03: Pump vs. Push: Implementation of Ultrasound Enhancement Agent Administered by Infusion Pump During Dobutamine Stress Echocardiography
M. Bremer

4:33 PM – 4:43 PM

SIA-04: Comparison of 2-Dimensional Derived Fractional Lung Flow Distribution with Nuclear Lung Perfusion Scintigraphy and Introduction of 3-Dimensional Method
D. Pham

4:43 PM – 4:45 PM

Introduction of Guest Speaker Dr. Gillian Whalley
S. Mulvagh

4:45 PM – 4:55 PM

My Research Journey: How it Changed My Life
G. Whalley

4:55 PM – 5:00 PM

Recognition of Competition Finalists and Announcement of Winner
S. Mulvagh

5:45 PM – 6:45 PM

★ Sound Saves Lives

Chair: J. Hung

Pediatric Case: J. Chiu, T. Hampton, J. Neas, M. Valley

Athlete Case: E. Carney, R. Harper, D. Phelan

5:45 PM – 6:45 PM

PC ⚕ Challenges on the Right

Chairs: N. Choueiter, B. Landeck

5:45 PM – 5:53 PM

Right Ventricle in a Biventricular Circulation: Which Measure Determines Outcomes?
L. Mercer-Rosa

5:53 PM – 6:01 PM

Role of Stress Echo in Assessment of the Right Ventricle
M. Chen

6:01 PM – 6:09 PM

What is Most Impactful Desynchrony vs. Right Ventricle Size and Function?
D. Forsha

6:09 PM – 6:17 PM

Right Atrium Size and Function
P. Jone

6:17 PM – 6:25 PM

Panel Discussion

6:25 PM – 6:29 PM

Debate Introduction
Moderators: G. Ensing, M. Lewin

6:29 PM – 6:37 PM

Debate: Eyeballing is the Best Method Con
P. Frommelt

6:37 PM – 6:45 PM

Debate: Eyeballing is the Best Method Pro
L. Mertens

5:45 PM – 6:45 PM

EC Play It Again Sam: Multi-Disciplinary Team Approach to Recurrent Infective Endocarditis

(ASE/EACVI Joint Session)

Chairs: V. Sachdev, S. Wieggers



EACVI
European Association of
Cardiovascular Imaging

5:45 PM – 5:50 PM

A Case of Prosthetic Valve Endocarditis Recidivism

L. Sade

5:50 PM – 6:00 PM

Echocardiographic Evaluation of Prosthetic Valve Infective Endocarditis

G. Habib

6:00 PM – 6:10 PM

Added Value of Multimodality Imaging: Cardiac PET, CT, and MRI

P. Schoenhagen

6:10 PM – 6:15 PM

Overcoming Management Dilemmas: The Endocarditis Team Approach

P. Erba

6:15 PM – 6:25 PM

The Medical Perspective

B. Cosyns

6:25 PM – 6:35 PM

The Surgical Perspective

J. Chikwe

6:35 PM – 6:45 PM

Question & Answer

5:45 PM – 6:45 PM

C Aortic Pathology and Complications: Don't Foul Out!

Chairs: S. Parashar, N. Soni-Patel

5:45 PM – 5:55 PM

Quantification of the Aorta

S. Goldstein

5:55 PM – 6:05 PM

Imaging Modalities in Aortitis and Large Vessel Vasculitis

S. Henkin

6:05 PM – 6:15 PM

Genetic Aortopathies and the Role of Genetic Testing

F. Shamoun

6:15 PM – 6:25 PM

Thoracic Aortic Aneurysm, Abdominal Aortic Aneurysm, and Thoraco-Abdominal Aortic Aneurysm: Expand your Knowledge to the Descending Aorta

A. Aday

6:25 PM – 6:35 PM

Surveillance and Complications After Aortic Surgery

C. Fanola













6:35 PM – 6:45 PM

Question & Answer

SCHEDULE AT A GLANCE

MONDAY, JUNE 21

All times are Eastern time.

EXHIBIT HALL OPEN 4:00 – 9:30 PM				
4:00 – 5:00 PM	SCIENCE & TECHNOLOGY THEATER: ULTROMICS			
5:15 – 5:45 PM	S STANDARDIZATION IN ECHOCARDIOGRAPHY: THE NEXT FRONTIER			
6:00 – 7:00 PM	 Cases: 3D Saved My Transthoracic Exam	 A Revolution in Mechanical Circulatory Support: Updates from the Front	 Tips and Tricks for Success in Interventional Echo	 TEE and Mechanical Circulatory Support (ITACTA Session*)
7:15 – 8:15 PM	 Myocardial Perfusion Echocardiography Using Echo Enhancing Agents	 Cardiomyopathy Associated with Systemic or Metabolic Disorders	 Becoming Expert at Valvular Assessment	 Never Ending Conundrums
8:30 – 9:30 PM	 The Great Debates	 Microbubbles from Diagnosis to Therapy	 New Concepts in Stress Echo Around the World (SONECOM and SISIAc Session*)	 Tricuspid Regurgitation: The Next Challenge

* ASE International Alliance Partner Session.

(ITACTA) Italian Association of Cardiothoracic Anaesthesiologists

(SONECOM) Sociedad Nacional de Ecocardiografía de México A.C. and (SISIAc) Sociedad de Imágenes Cardiovasculares de la Sociedad Interamericana de Cardiología "La imagen de Las Américas"

ADULT CONGENITAL HEART DISEASE (A)

MYOCARDIUM/FUNCTION (M)

CIRCULATION (C)

PEDIATRIC/CONGENITAL (PC)

EARLY CAREER (EC)

PERIOPERATIVE (P)

IMAGING ESSENTIALS (E)

POINT OF CARE (POC)

INNOVATION/TECHNOLOGY (IT)

SPECIAL SESSIONS (S)

ISCHEMIA (I)

VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED

Schedule subject to change. For detailed information, visit ASEScientificSessions.org.

5:15 PM – 5:45 PM

**S Standardization in Echocardiography:
The Next Frontier**

Chair: J. Hung

5:15 PM – 5:21 PM

ASE Strategic Initiative

J. Hung

5:21 PM – 5:27 PM

Standardization in Strain

J. Thomas

5:27 PM – 5:33 PM

Standardization in 3D/4D

L. Sugeng

5:33 PM – 5:39 PM

Standardization in Artificial Intelligence

T. Abraham

5:39 PM – 5:45 PM

Where Do We Go From Here

P. Pellikka

6:00 PM – 7:00 PM

E Cases: 3D Saved My Transthoracic Exam

Chairs: K. Collins, M. Park

6:00 PM – 6:02 PM

Session Introduction

K. Collins

6:02 PM – 6:12 PM

Pacer Lead Position: Assessing by 3D

M. Yamat

6:12 PM – 6:22 PM

What Is That Mass? Flail? Interventional Echo?

M. Jankowski

6:22 PM – 6:32 PM

Cleft Mitral Valve: Unmasked by 3D Imaging

B. Guile

6:32 PM – 6:42 PM

Dehisced Prosthesis: Assessed by 3D TTE

R. Meece

6:42 PM – 6:52 PM

Cases: 3D Enhanced the Defect

E. Kruse

6:52 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

**M A Revolution in Mechanical Circulatory
Support: Updates from the Front**

Chairs: J. Diaz-Gomez, A. Kinsara

6:00 PM – 6:12 PM

Surveillance Echo LVAD Including HeartMate 3™

R. Stainback

6:12 PM – 6:24 PM

Problem VADs: When to Call in Multimodality

J. Estep

6:24 PM – 6:36 PM

Echo for Venous-Venous and Venous-Arterial ECMO: Can We Wean?

A. Grigore

6:36 PM – 6:48 PM

Temporary Left Ventricular/Right Ventricular Mechanical

Circulatory Support Including Impella®

G. Mackensen

6:48 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

**V Tips and Tricks for Success in
Interventional Echocardiography**

Chairs: A. DeMaria, L. Sugeng

6:00 PM – 6:12 PM

Tips and Tricks for Success in 3D TEE

A. Qasim

6:12 PM – 6:24 PM

Use of 3D for Paravalvular Leaks

K. Addetia

6:24 PM – 6:36 PM

Left Atrial Appendage Anatomy and Considerations for Closure

M. Saric

6:36 PM – 6:48 PM

Procedural Imaging in Tricuspid Regurgitation Intervention:

TEE, TTE, ICE

M. Vannan

6:48 PM – 7:00 PM

Question & Answer

6:00 PM – 7:00 PM

 TEE and Mechanical Circulatory Support

(ASE International Alliance Partner Session. (ITACTA) Italian Association of Cardiothoracic Anaesthesiologists)

Chairs: F. Guarracino, N. Skubas

6:00 PM – 6:12 PM

ECMO, Impella®, and Paracorporeal LVAD: Echo Guidance to Decision Making

A. Roscoe

6:12 PM – 6:24 PM

TEE for Ventricular Assist Device Implantation

M. Mondino

6:24 PM – 6:36 PM

Can We Predict Right Ventricle Failure at the Time of LVAD Implantation?

N. Silverton

6:36 PM – 6:48 PM

Concomitant Tricuspid Valve Repair/Replacement During LVAD Implantation

M. Meineri

6:48 PM – 7:00 PM

Question & Answer

7:15 PM – 8:15 PM

 Myocardial Perfusion Imaging Using Echo Enhancing Agents

Chairs: R. Janardhanan, J. Tsutsui

7:15 PM – 7:27 PM

Let's Go from Category III to I

T. Porter

7:27 PM – 7:39 PM

Tips and Tricks

J. Olson

7:39 PM – 7:51 PM

Myocardial Viability Testing

R. Senior

7:51 PM – 8:03 PM

Comparative Modalities

B. Davidson

8:03 PM – 8:15 PM

Question & Answer

7:15 PM – 8:15 PM

 Cardiomyopathy Associated with Systemic or Metabolic Disorders

Chairs: G. Aurigemma, T. Edvardsen

7:15 PM – 7:27 PM

Cardiac Sarcoidosis

J. Danik

7:27 PM – 7:39 PM

Fabry's Disease

T. Tsang

7:39 PM – 7:51 PM

Cardiac Amyloidosis

M. Mukherjee

7:51 PM – 8:03 PM

Diabetes Mellitus and Obesity Cardiomyopathy

J. Bella

8:03 PM – 8:15 PM

Question & Answer

7:15 PM – 8:15 PM

  Becoming an Expert at Valvular Assessment

Chairs: C. Mitchell, R. Palma

7:15 PM – 7:17 PM

Session Introduction

C. Mitchell

7:17 PM – 7:27 PM

Keys to Accurate Mitral Regurgitation Quantification by 2D and 3D Echo

A. Armour

7:27 PM – 7:37 PM

Assessing Tricuspid Regurgitation Severity: Torrential Sounds Bad

J. Schaaf

7:37 PM – 7:47 PM

My Aortic Stenosis Numbers Don't Make Sense

S. Roemer

7:47 PM – 7:57 PM

What is Malignant Mitral Valve Prolapse Syndrome

D. Ignatowski

7:57 PM – 8:07 PM

Double Valve Interrogation

D. Borque

8:07 PM – 8:15 PM

Question & Answer

7:15 PM – 8:15 PM

PC Never Ending Conundrums

Chairs: S. Balasubramanian, D. Parra

7:15 PM – 7:21 PM

What Measure of Function Determines Outcomes in Cancer Patients?

W. Border

7:21 PM – 7:27 PM

Vascular Rings: Determining Diagnosis and Intervention

J. Lu

7:27 PM – 7:33 PM

Can Imaging or Stress Risk Stratify Anomalous Aortic Origin of a Coronary Artery?

W. Thompson

7:33 PM – 7:39 PM

Risk Stratification of Pulmonary Hypertension

M. Quartermain

7:39 PM – 7:45 PM

Panel Discussion

7:45 PM – 8:15 PM

Nomenclature Fest

Moderators: M. Brook, T. Slesnick

Team A

B. Eidem, L. Lopez

Team B

A. Powell, J. Simpson

Team C

N. Ayres, M. Cohen

8:30 PM – 9:30 PM

P The Great Debates

Chairs: J. Kisslo, S. Shah

8:30 PM – 8:38 PM

Structural Heart: Multimodality Imaging is Required

D. Shook

8:38 PM – 8:46 PM

Structural Heart: 3D Echocardiography is Essential in Structural Interventions

M. Monaghan

8:46 PM – 8:50 PM

Rebuttal

M. Monaghan, D. Shook

8:50 PM – 8:58 PM

Two Surgeons Debate Based on the Echo: I WOULD Repair This Valve!

D. Drake

8:58 PM – 9:06 PM

Two Surgeons Debate Based on the Echo: I WOULD NOT Repair This Valve!

D. Ramzy

9:06 PM – 9:10 PM

Rebuttal

D. Drake, D. Ramzy

9:10 PM – 9:18 PM

We Need Artificial Intelligence in Cardiac Imaging

R. Arnaout

9:18 PM – 9:26 PM

We Need Real Intelligence in Cardiac Imaging

F. Mahmood

9:26 PM – 9:30 PM

Rebuttal

R. Arnaout, F. Mahmood

8:30 PM – 9:30 PM

IT Microbubbles from Diagnosis to Therapy

Chairs: J. Lindner, F. Villanueva

8:30 PM – 8:42 PM

Bubbles as Smart Weapons in Cardiovascular Disease

F. Villanueva

8:42 PM – 8:54 PM

Measuring Myocardial Flow: Where Are We Now?

F. Pinto

8:54 PM – 9:06 PM

Bubbles in Acute Coronary Syndromes

W. Mathias

9:06 PM – 9:18 PM

Bubbles in Peripheral Vascular Disease

S. Feinstein

9:18 PM – 9:30 PM

Question & Answer

8:30 PM – 9:30 PM

I **New Concepts in Stress Echo
Around the World**

(ASE International Alliance Partner Session. (SONECOM) Sociedad Nacional de Ecocardiografía de México A.C. and (SISIAC) Sociedad de Imágenes Cardiovasculares de la Sociedad Interamericana de Cardiología “La imagen de Las Américas” Session.)

Chairs: S. Spina, N. Zamorano-Velazquez

8:30 PM – 8:42 PM

Impact of COVID

L. Aello-Reyes

8:42 PM – 8:54 PM

Vasodilator Stress

Z. Vasquez-Ortiz

8:54 PM – 9:06 PM

Coronary Flow Reserve

H. Rodríguez-Zanella

9:06 PM – 9:18 PM

The ABCDE Approach

J. Lowenstein

9:18 PM – 9:30 PM

Question & Answer

8:30 PM – 9:30 PM

V **Tricuspid Regurgitation:
The Next Challenge**

Chairs: K. Addetia, S. Lester

8:30 PM – 8:42 PM

Etiologies of Tricuspid Regurgitation

G. Sahagún Sánchez

8:42 PM – 8:54 PM

New Grading Scale for Tricuspid Regurgitation

R. Lang

8:54 PM – 9:06 PM

The Right Ventricle in Tricuspid Regurgitation

V. Delgado

9:06 PM – 9:18 PM

How to Assess Candidacy of Tricuspid Regurgitation for Interventions

R. Hahn

9:18 PM – 9:30 PM

Question & Answer

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