

American Society of Echocardiography

# ASE 2020

Live Broadcast  
August 8-10, 2020

THE NEXT  
MILLENNIUM

*Virtual Experience*

[ASEScientificSessions.org](https://asescientificsessions.org)

FINAL PROGRAM

#ASE2020

# SCIENTIFIC PROGRAM TRACKS & LEVELS

## CIRCULATION (C)

ASE's Council on Circulation & Vascular Ultrasound has put together a program that will provide attendees with an excellent overview, as well as advanced topics on vascular ultrasound of interest to the practicing cardiologist/sonographer.

## EARLY CAREER (EC)

This track has been designed specifically for fellows in training, and early career physicians and sonographers. The focus will be career development with sessions geared toward helping you effectively navigate the formative years of practice while maximizing the skills you have obtained during your training.

## IMAGING ESSENTIALS (E)

ASE's Council on Cardiovascular Sonography has created this track to instruct practitioners on techniques of assessment and quantitation. There are disease-based sessions that will help you improve your skills in imaging, measurements and quantification in a variety of disease states. In addition, there are practical sessions on lab management, diastology, myocardial perfusion, strain, and 3D echo that you can incorporate into your lab when you return home.

## 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)

ASE's Council on Pediatric and Congenital Heart Disease has created a program packed with cutting-edge science from fetus to adult that brings together cardiologists, PhDs, engineers, and sonographers with the unifying goal of improving care for those with heart disease. The program will take you on a journey of using echo to predict, diagnose, and treat heart disease by reviewing current standards, learning from experts, and exposing you to what is on the horizon.

## 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 become skilled in the use of point of care ultrasound.

## SPECIAL SESSIONS (S)

The 2020 Program Committee has designed the Special Sessions Track to introduce different learning formats to entertain and educate. Join us for the Episodes of Care, Echo and COVID, the Value Summit, and more.

## VALVES (V)

The Valve Track has been planned with the goal of bringing together the expertise of sonographers, cardiologists, cardiac anesthesiologists, and surgeons to share knowledge in the diagnosis and management of patients with both simple and complex valvular heart disease. The sessions will highlight the role of the newer echocardiography modalities in managing patients with valvular diseases, present and future of percutaneous aortic, mitral, and tricuspid valve therapies, and an overview of structural imaging to complement the perioperative track.

## Chalk Talks

Have clinical questions? Chalk Talks offer an opportunity to get answers to all your questions from experts in the field of cardiovascular ultrasound.

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

### SATURDAY, AUGUST 8 10:30 AM – 7:30 PM ET

	10:30 – 11:00 AM ET	11:00 AM – 12:30 PM ET	12:30 – 1:30 PM ET	1:30 – 2:30 PM ET	2:30 – 3:00 PM ET	3:00 – 4:00 PM ET	4:00 – 5:00 PM ET	5:00 – 5:30 PM ET	5:30 – 6:30 PM ET
<b>EXHIBIT HALL OPEN</b>									
<b>CHANNEL DISCOVERY</b> Future of Echo				<b>S</b> Chalk Talks Doppler (1:30 – 2:00 PM) & Echo in Pulmonary Hypertension (2:00 – 2:30 PM)			<b>S</b> Episode of Care 1: Coronary Disease (4:00 – 5:30 PM)		
<b>CHANNEL EXPLORER</b> Progress in Science and Technology	<b>S</b> STATE OF ASE <i>Madhav Swaminathan, MD, FASE</i>	<b>S</b> AI and What it Means to You <i>Gardin Lecture Laurie Yoler</i>	<b>VISIT EXHIBIT HALL</b>	<b>P</b> 50 Shades of Grey (Scale) in Peri-Procedural Imaging	<b>VISIT EXHIBIT HALL</b>	<b>SCIENCE &amp; TECHNOLOGY THEATER: LANTHEUS MEDICAL IMAGING</b>	<b>IT</b> Active Echocardiography: Advances in Ultrasound Therapeutics <i>Kalmanson Lecture Brian Fowlkes, PhD, FAIUM</i>	<b>VISIT EXHIBIT HALL</b>	<b>ASE HAPPY HOUR AND COUNCIL NETWORKING</b>
<b>CHANNEL GUIDEPOINT</b> Guidelines and Best Practice	<b>ASE INCOMING PRESIDENTIAL ADDRESS</b> <i>Judy Hung, MD, FASE</i>			<b>V</b> Simulated Heart Valve Team Cases Discussion - Mitral			<b>E</b> Educator Summit: Contrast and Competency		<b>VIRTUAL SOCIAL GATHERING</b>
<b>CHANNEL INSIGHT</b> Pediatrics		<b>PC</b> Stronger Together and On the Horizon		<b>PC</b> Renaissance in Cardiac Imaging to Assist Cardiac Interventions <i>(ASE/EACVI Joint Session)</i>			<b>PC</b> Quality and Value Summit		

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 (V)



BASIC



BASIC/INTERMEDIATE



INTERMEDIATE



INTERMEDIATE/ADVANCED



ADVANCED



BASIC/INTERMEDIATE/ADVANCED

**CHANNEL DISCOVERY****10:30 AM - 11:00 AM****★ State of ASE and Incoming President's Address***Chair: M. Swaminathan***10:30 AM - 10:40 AM**

State of ASE

*M. Swaminathan***10:40 AM - 10:50 AM**

Board of Directors Induction and Announcements

*M. Swaminathan***10:50 AM - 11:00 AM**

Incoming President's Address

*J. Hung***CHANNEL DISCOVERY****11:00 AM – 12:30 PM****▲ Artificial Intelligence and What It Means to You***Chairs: T. Abraham; S. Phillip**Twitter Moderators: E. Michos (@ErinMichos); A. Narang (@AkhilNarangMD); J. Strom (@DocStrom); R. Thamman (@iamritu)***11:00 AM - 11:03 AM**

Welcome and Introduction

*T. Abraham***11:03 AM - 11:04 AM**

Introduction of Laurie Yoler

*T. Abraham***11:04 AM - 11:19 AM**

Gardin Lecture: My Life on Artificial Intelligence - How Technology Will Change the Way We Live

*L. Yoler***11:19 AM - 11:34 AM**

Where the Puck is Going: Why Interest and Investment Are All in Artificial Intelligence?

*C. Farmer***11:34 AM - 11:49 AM**

Artificial Intelligence in Medicine: Promises, Potential, Pain and Pitfalls

*M. Blum***11:49 AM - 11:54 AM**

Panel Discussion

**11:54 AM - 12:04 PM**

How Artificial Intelligence Can Save Echocardiography

*G. Tison***12:04 PM - 12:14 PM**

Fundamental Artificial Intelligence for the Echocardiographer/Sonographer

*R. Arnaout***12:14 PM - 12:24 PM**

A Sonographer Perspective on Artificial Intelligence

*D. Adams***12:24 PM – 12:30 PM**

Fireside Chat: Master Clinicians vs. Mega Computers - Who Wins?

*M. Bogerman***CHANNEL INSIGHT****11:00 AM – 11:30 AM****◆ PC Stronger Together***Chair: R. Sachdeva**Twitter Moderators: K. Farooqi (@Kfarooqi); S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram); M. Wasserman (@MelisWasserman)***11:00 AM - 11:06 AM**

Welcome and Opening Remarks

*R. Sachdeva***11:06 AM - 11:16 AM**

Council Chair's address

*P. Barker***11:16 AM - 11:23 AM**

COVID Pandemic: Recommendations for Pediatric Echocardiography

*C. Altman***11:23 AM - 11:30 AM**

COVID Pandemic: Sonographer Perspective

*M. Wasserman***CHANNEL INSIGHT****11:30 AM – 12:30 PM****◆ PC On the Horizon***Chair: R. Sachdeva**Twitter Moderators: K. Farooqi (@Kfarooqi); S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram); M. Wasserman (@MelisWasserman)***11:30 AM - 11:40 AM**

The Latest and Greatest in Pediatric Cardiac Imaging: Year in Review

*L. Mertens***11:40 AM - 11:50 AM**

Future of Pediatric Echo Research

*S. Morris*

**11:50 AM - 12:00 PM**

Fetal Cardiac Imaging and Therapeutics: Where Should We Be in 2030?

*J. Rychick*

**12:00 PM - 12:10 PM**

Echo-Nomics of Pediatric Cardiac Care: What Does the Future Hold for Us?

*G. Shirali*

**12:10 PM - 12:15 PM**

Right Ventricular Remodeling after Cone Reconstruction for Ebstein Anomaly: Natural History, Interventricular Interactions, and Early Observations after Bone Marrow Derived Stem Cell Therapy

*P. O'Leary*

**12:15 PM - 12:30 PM**

Question & Answer

**CHANNEL DISCOVERY**

1:30 PM - 2:00 PM

**S Chalk Talk**

Doppler

*N. Pandian*

**CHANNEL DISCOVERY**

2:00 PM - 2:30 PM

**S Chalk Talk**

Echo in Pulmonary Hypertension

*N. Schiller*

**CHANNEL EXPLORER**

1:30 PM - 2:30 PM

**P 50 Shades of Grey (Scale) in Peri-Procedural Imaging**

*Chair: S. Pai Cole*

*Twitter Moderators: M. Fischer (@MattFischerMD);*

*A. Nicoara (@nicoa002); M. Swaminathan (@mswami001)*

**1:30 PM - 1:45 PM**

Complex Mitral Assessment (Under Anesthesia)

*S. Shernan*

**1:45 PM - 2:00 PM**

What Do Procedural Gradients Actually Tell Us?

*C. Mukherjee*

**2:00 PM - 2:15 PM**

Diastology in the Peri-Procedural Setting

*T. Gelzins*

**2:15 PM - 2:30 PM**

Question & Answer

**CHANNEL GUIDEPOINT**

1:30 PM - 2:30 PM

**S Simulated Heart Valve Team Cases Discussion - Mitral**

*Chairs: R. Hahn; N. Nanda*

*Panelists: S. Little; G. Mackensen; R. Quaife*

*Twitter Moderators: N. Faza (@NadeenFaza); E. Gill*

*(@edwardagill); R. Hahn (@hahn\_rt); R. Jain (@renujain19);*

*S. Little (@SLittleMD)*

**1:30 PM - 1:50 PM**

Primary Mitral Regurgitation Clip

*J. Dal-Bianco*

**1:50 PM - 2:10 PM**

Functional Mitral Regurgitation Clip

*A. Qasim*

**2:10 PM - 2:30 PM**

Valve in MAC, Valve in Native Valve, Valve in Ring, or Percutaneous New Mitral Valve

*E. Gill*

**CHANNEL INSIGHT**

1:30 PM - 2:30 PM

**PC Renaissance in Cardiac Imaging to Assist Cardiac Interventions**

*(ASE / EACVI Joint Session)*

*Chair: M. Friedberg*

*Twitter Moderators: K. Farooqi (@Kfarooqi); S. Kutty*

*(@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram)*



**EACVI**  
European Association of  
Cardiovascular Imaging

**1:30 PM - 1:40 PM**

3D TEE

*X. Iriart*

**1:40 PM - 1:50 PM**

Fusion Imaging

*P. Jone*

**1:50 PM - 2:00 PM**

3D Printing

*K. Farooqi*

**2:00 PM - 2:10 PM**

Medical Holography

*E. Bruckheimer*

**2:10 PM - 2:20 PM**

Virtual Reality

*R. Moore*

**2:20 PM - 2:30 PM**

Question & Answer

**CHANNEL DISCOVERY**

4:00 PM - 5:30 PM

**S Episode of Care 1: Coronary Disease***Chairs: C. Abouzeid; K. Tolstrup**Twitter Moderators: D. Ignatowski (@Deniselgnatows1); J. Lopez-Mattei (@onco\_cardiology); E. Michos (@ErinMichos); A. Narang (@AkhiINarangMD); P. Parwani (@purviparwani); S. Raza (@SamRRazaMD); J. Strom (@DocStrom); R. Thamman (@iamritu)*

POCUS

*S. Raza*

Cath Lab

*V. Mahadevan*

CT

*M. Garcia*

CT Surgeon

*K. Kim*

Nuclear

*M. Pampaloni*

Peri-OP

*J. Ortoleva*

Echo Sonographer

*D. Ignatowski*

ICU Care

*S. Nikravan*

Echocardiographer

*V. Rigolin*

MRI

*T. Henry*

Question &amp; Answer

**CHANNEL EXPLORER**

4:00 PM - 5:00 PM

**IT Active Echocardiography: Advances in Ultrasound Therapeutics***Chair: J. Lindner**Twitter Moderators: E. Garcia-Sayan (@EGarciaSayan); A. Johri (@amerjohri); S. Mulvagh (@HeartDocSharon)***4:00 PM - 4:02 PM**

Introduction of Kalmanson Lecture

*J. Lindner***4:02 PM - 4:12 PM**

Kalmanson Lecture: Therapeutic Methods for Cardiovascular Tissue Ablation

*B. Fowlkes***4:12 PM - 4:22 PM**

Gene/Drug Delivery

*M. Borden***4:22 PM - 4:32 PM**

Augmented Thrombolysis

*W. Mathias***4:32 PM - 4:42 PM**

Modulation of Tissue Perfusion

*J. Lindner***4:42 PM - 4:52 PM**

Ultrasound Alteration of Basic Cell Function

*F. Villanueva***4:52 PM - 5:00 PM**

Question &amp; Answer

**CHANNEL GUIDEPOINT**

4:00 PM - 5:00 PM

**E Educator Summit: Contrast and Competency***Chairs: M. Bremer; C. Mitchell**Twitter Moderators: K. Kasir (@KasirKelly); C. Mitchell (@carolKCM)***4:00 PM - 4:10 PM**

Introduction and Overview of Session, Legal, and Policy Considerations

*M. Bremer***4:10 PM - 4:20 PM**

Methods of Testing Competency

*R. Palma***4:20 PM - 4:45 PM**

Practical Competency for Educators

*J. Betz***4:45 PM - 4:55 PM**

Sonographer Perspectives

*C. Mitchell***4:55 PM - 5:00 PM**

Question &amp; Answer

**CHANNEL INSIGHT**

4:00 PM - 5:00 PM

**PC Quality and Value Summit***Chair: C. Fleishman**Twitter Moderators: S. Kuty (@ShelbyKutyMD); P. Shivaram (@PushpaShivaram); M. Wasserman (@MelisWasserman)***4:00 PM - 4:05 PM**

Echo Complexity Score: How Can It Impact Quality and Efficiency of a Lab?

*S. Balasubramanian***4:05 PM - 4:10 PM**

Practice Variation in Pediatric Echo Labs

*J. Camarda***4:10 PM - 4:20 PM**

Multimodality Imaging in A Value-Based Healthcare System

*K. Stern*

## 4:20 PM - 4:30 PM

Debate: Quality Metrics-Adds Value to Patient Care and We Need More!

*L. Lopez*

## 4:30 PM - 4:40 PM

Debate: Quality Metrics-We Have Enough Already, Not Sure What to Do with Them!

*M. Lewin*

## 4:40 PM - 4:45 PM

The American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity Survey 4: Pediatric Echocardiography Labs Maintain Productivity While Increasing Study Volume and Incorporating New Technologies

*B. Printz*

## 4:45 PM - 5:00 PM

Question & Answer

## ASE HAPPY HOUR AND COUNCIL NETWORKING

5:30 PM - 6:00 PM

### CHANNEL DISCOVERY

#### Welcome and Toast to Healthcare Workers

*Madhav Swaminathan, MD, FASE*

#### Karaoke Contest and Voting

*Theodore Abraham, MD, FASE*

*Sue Phillip, RCS, FASE*

#### Council Networking Kick-off

*Judy Hung, MD, FASE*

## COUNCIL NETWORKING EVENTS

6:00 PM - 6:30 PM

### CHANNEL DISCOVERY

#### Council on Perioperative Echocardiography

*Alina Nicoara, MD, FASE*

### CHANNEL EXPLORER

#### Council on Circulation & Vascular Ultrasound

*Bryan Wells, MD, FASE*

*Rebecca LeLeiko, MD*

### CHANNEL INSIGHT

#### Council on Pediatric and Congenital Heart Disease

*Carolyn Altman, MD, FASE*

*Piers Barker, MD, FASE*















### CHANNEL GUIDEPOINT

#### Council on Cardiovascular Sonography

*Keith Collins, MS, RDMS, FASE*

*Carol Mitchell, PhD, RDMS, RDCS, RVT, RT(R), ACS, FASE*

### SUNDAY, AUGUST 9 11:00 AM – 8:00 PM ET

	11:00 – 11:25 AM ET	11:25AM – 12:30 PM ET	12:30 – 1:30 PM ET	1:30 – 2:30 PM ET	2:30 – 3:00 PM ET	3:00 – 4:00 PM ET	4:00 – 5:00 PM ET	5:00 – 5:30 PM ET	5:30 – 6:30 PM ET	6:30 – 7:30 PM ET
<b>EXHIBIT HALL OPEN</b>										
<b>CHANNEL DISCOVERY</b> Future of Echo				 Episode of Care 2: Mitral Valve Disease (1:00 – 2:30 PM)			<b>Chalk Talks:</b> Contemporary Evaluation of Valve Disease (4:00 – 4:30 PM) & Fundamentals and Applications of Strain (4:30 – 5:00 PM)		 Episode of Care 3: MCS – Transplant (5:00 – 6:30 PM)	<b>NETWORKING HAPPY HOUR</b>
<b>CHANNEL EXPLORER</b> Progress in Science and Technology	 <b>31<sup>ST</sup> ANNUAL EDLER LECTURE</b> The Role of Imaging Today for Developing Drugs of Tomorrow <i>Jonathan Lindner, MD, FASE</i>	 <b>ECHO AND COVID</b>	<b>VISIT EXHIBIT HALL</b>	 <b>Arthur E. Weyman YIA Competition and 21<sup>ST</sup> Annual Feigenbaum Lecture</b> <i>Shelby Kutty, MD, PhD, MHCM, FASE</i> (1:30 – 3:00 PM)	<b>VISIT EXHIBIT HALL</b>	<b>SCIENCE &amp; TECHNOLOGY THEATER: BRACCO DIAGNOSTICS</b>	 <b>Echo Technology at the Cutting Edge of Knowledge</b> <i>Kerber Lecture</i> <i>Julius Gardin, MD, FASE</i>	<b>VISIT EXHIBIT HALL</b>	 <b>Inflammatory Cardiovascular Diseases</b> <i>(ASE/JSE Joint Session)</i>	<b>ASK THE LUMINARIES</b>
<b>CHANNEL GUIDEPOINT</b> Guidelines and Best Practice				 <b>Cardio-Oncology in the Real World</b> <i>(ASE/EACVI Joint Session)</i>			 <b>Echo in Acute Myocardial Infarction: From Diagnosis to Therapy</b>		 <b>HFpEF: Everything You Need to Know... and More</b>	<b>WOMEN IN ECHO</b>
<b>CHANNEL INSIGHT</b> Pediatrics	 <b>Fetal Symposium: Current and Upcoming Strategies in Management of Fetal Cardiac Disease</b>			 <b>Challenging Cases: Fetus to Adults with Congenital Heart Disease</b>			 <b>Imaging Solutions to Clinical Conundrums in Congenital Heart Disease</b>		 <b>Multimodality Imaging from Fetus to Young Adults</b>	<b>EMERGING ECHO ENTHUSIASTS (E3) AND EARLY CAREER RESEARCH</b>

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 (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED



**CHANNEL DISCOVERY**

11:00 AM – 11:25 AM

**★ Edler Lecture**

Twitter Moderators: A. Klein (@AllanLKleinMD1); V. Rigolin (@RigolinVera)

**11:00 AM - 11:23 AM**

Edler Lecture: The Role of Imaging Today for Developing Drugs of Tomorrow  
J. Lindner

**11:23 AM - 11:25 AM**

Thank you  
T. Abraham

**CHANNEL DISCOVERY**

11:25 AM – 12:30 PM

**▲ Echo and COVID**

Chairs: T. Abraham; N. Parikh  
Twitter Moderators: R. Jain (@renujain19); E. Michos (@ErinMichos); S. Mulvagh (@HeartDocSharon); J. Strom (@DocStrom); R. Thamman (@iamritu); D. Wiener (@DavidWienerMD)

**11:25 AM - 11:35 AM**

Epidemiology of COVID  
G. Rutherford

**11:35 AM - 11:45 AM**

Echo Findings in COVID  
C. Taub

**11:45 AM - 11:55 AM**

Bedside Focused Cardiac Ultrasound in COVID-19 Infection from the Wuhan Epicenter  
L. Zhang

**11:55 AM - 12:05 PM**

Protection of Patients  
J. Kirkpatrick

**12:05 PM - 12:15 PM**

Sonographer Considerations  
K. Collins

**12:15 PM - 12:25 PM**

Perioperative Considerations  
M. Swaminathan

**12:25 PM - 12:35 PM**

Echocardiography in the Time of COVID-19  
M. Picard

**12:35 PM - 12:45 PM**

Reopening the Echo Lab  
J. Hung

**CHANNEL INSIGHT**

11:00 AM - 12:30 PM

**◆ Fetal Symposium: Current and Upcoming Strategies in Management of Fetal Cardiac Disease**

Chair: J. Pruetz  
Twitter Moderators: S. Kutty (@shelbykuttymd); A. Moon-Grady (@moon-grady); P. Shivaram (@PushpaShivaram)

**11:00 AM - 11:15 AM**

New Frontiers in Fetal Cardiac Imaging  
K. Pushparajan; J. Simpson

**11:15 AM - 11:25 AM**

Home Monitoring for Fetal Heart Rhythm  
B. Cuneo

**11:25 AM - 11:40 AM**

International Fetal Cardiac Interventions Registry: Lessons Learnt  
A. Moon-Grady

**11:40 AM - 11:55 AM**

Assessing the Heart in a Fetus with Extracardiac Anomalies  
R. Michelfelder

**11:55 AM - 12:10 PM**

Perinatal Level of Care Guidelines-Impact on Clinical Outcomes  
M. Donofrio

**12:10 PM - 12:20 PM**

Maternal Hyperoxygenation Testing in Fetuses with Hypoplastic Left Heart Syndrome: Predicting Postnatal Physiology  
C. Mardy

**12:20 PM - 12:30 PM**

Question & Answer

**CHANNEL DISCOVERY**

1:00 PM - 2:30 PM

**▲ Episode of Care 2: Mitral Valve Disease**

Chairs: S. Little; J. Wong  
Twitter Moderators: N. Faza (@NadeenFaza); E. Michos (@ErinMichos); P. Parwani (@purviparwani); A. Patel (@AmitRPatelMD); R. Thamman (@iamritu); D. Wiener (@DavidWienerMD)

POCUS

J. Lopez Mattei

Cath Lab

V. Mahadevan

CT

A. Patel

CT Surgeon

D. Drake

Echo Sonographer

C. Kramer

Periop

D. Shook

Echocardiographer

A. Qasim

ICU Care

A. Kumaresan

MRI

V. Ferrari

Question & Answer

**CHANNEL EXPLORER**

1:30 PM - 3:00 PM

**★ Arthur E. Weyman Young Investigator's Award Competition and 20<sup>th</sup> Annual Feigenbaum Lecture**

*Chair: M. Main**Judges: T. Edvardsen; J. Hung; H. Leong-Poi; S. Mulvagh; A. Weyman; K. Yakamoto**Twitter Moderators: T. Edvardsen (@ThorEdvardsen); J. Hung (@JudyHungMD); S. Mulvagh (@HeartDocSharon); V. Sorrell (@VLSorrellImages); M. Swaminathan (@mswami001)***1:30 PM - 1:35 PM**

Welcome and Introduction

*M. Main***1:35 PM - 1:47 PM**

YIA-1: Ultrasound Enhanced S100A4-shRNA Delivery Using Acoustically Activated Cationic Lipid Nanodroplets to Reach and Treat Myocytes within the Developing Scar Zone

*L. Qian***1:47 PM - 1:59 PM**

YIA-2: Projected Transmitral Gradient: A Novel Tool for Assessment of Mitral Stenosis

*N. Kato***1:59 PM - 2:11 PM**

YIA-3: Exploring the Phenotypic Spectrum of Left Ventricular Hypertrophy in Hypertension and Hypertrophic Cardiomyopathy Using a Machine-Learning Approach: A Pilot Study

*F. Loncaric***2:11 PM - 2:23 PM**

YIA-4: Deep Learning Models of Diastolic Dysfunction: Channel Insights from the TOPCAT Echocardiography Sub-Study

*A. Pandey***2:23 PM - 2:25 PM**

Concluding Remarks

*M. Main***2:25 PM - 2:28 PM**

Introduction to the Feigenbaum Lecturer

*M. Swaminathan***2:28 PM - 2:48 PM**

Feigenbaum Lecture: Beyond Artificial: Echocardiography from Elegant Images to Analytic Intelligence

*S. Kutty***2:48 PM - 2:53 PM**

Recognition of Feigenbaum Lecture, Presentation of Plaque, Concluding Remarks

*H. Feigenbaum***2:53 PM - 3:00 PM**

Presentation of YIA Plaques and Winner Announcement

*A. Weyman***CHANNEL GUIDEPOINT**

1:30 PM - 2:30 PM

**◆ Cardio-Oncology in the Real World***(Joint ASE/EACVI Session)***EACVI**

European Association of Cardiovascular Imaging

*Chair: M. Scherrer-Crosbie**Twitter Moderator: E. Garcia-Sayan (@EGarciaSayan)***1:30 PM - 1:35 PM**

Case 1

*S. Cauduro***1:35 PM - 1:50 PM**

Discussion Traditional Cardio-Toxicity

*T. Edvardsen***1:50 PM - 1:55 PM**

Case 2

*A. Yu***1:55 PM - 2:10 PM**

Discussion: Cardiac Effects of Novel Cancer Therapeutics

*J. Plana***2:10 PM - 2:15 PM**

Case 3

*P. Thavendiranathan***2:15 PM - 2:30 PM**

Discussion: "But Wait, There's More." Cardio-Oncology Beyond the Myocardium

*B. Cosyns***CHANNEL INSIGHT**

1:30 PM - 2:30 PM

**Challenging Cases: Fetus to Adults with Congenital Heart Disease***Chair: C. Taylor**Panelists: A. Dorfman; B. Eidem**Twitter Moderators: A. Dorfman (@drdorfkidsheart);**S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram);**M. Wasserman (@MelisWasserman)***1:30 PM - 1:40 PM**

Fetus with Ebstein Anomaly: What Predicts Perinatal Outcomes?

*L. Freud***1:40 PM - 1:50 PM**

A Neonate with CC-TGA: When and How to Intervene?

*C. Taylor*

**1:50 PM - 2:00 PM**

DORV with Straddling AV Valve: Is BiV Repair Feasible?  
*M. Quartermain*

**2:00 PM - 2:10 PM**

Infant with Complete AV Canal Defect: How Can 3D Echo Help?  
*A. Parthiban*

**2:10 PM - 2:20 PM**

Young Adult with a New Diagnosis of Coarctation: What Else Do I Need to Look For?  
*S. Pickard*

**2:20 PM - 2:30 PM**

Young Adult with Repaired Tetralogy of Fallot: How to Assess Melody Valve Dysfunction?  
*J. Lu*

**CHANNEL DISCOVERY**

**4:00 PM - 4:30 PM**

**S Chalk Talk**

Contemporary Evaluation of Valve Disease  
*W. Zoghbi*

**CHANNEL DISCOVERY**

**4:30 PM - 5:00 PM**

**S Chalk Talk**

Fundamentals and Applications of Strain  
*T. Kolias*

**CHANNEL EXPLORER**

**4:00 PM - 5:00 PM**

**IT Echo Technology at the Cutting Edge of Knowledge**

Chairs: *S. Morhy; M. Swaminathan*  
Twitter Moderators: *M. Alasnag (@mirivatalasnag); A Narang (@AkhilNarangMD); P. Sengupta (@ppsengupta1); J. Strom (@DocStrom); M. Swaminathan (@mswami001)*

**4:00 PM - 4:02 PM**

Introduction to Kerber Lecture  
*M. Swaminathan*

**4:02 PM - 4:22 PM**

Kerber Lecture: Ethical Codes and Echocardiographers  
*J. Gardin*

**4:22 PM - 4:32 PM**

Echo as an Endpoint in Clinical Trials: Successes and Pitfalls  
*N. Weissman*

**4:32 PM - 4:42 PM**

Harnessing Big Echo Data: Novel Methods  
*P. Sengupta*

**4:42 PM - 4:52 PM**

Echo as a Tool for Hemodynamic Assessment  
*S. Morhy*

**4:52 PM - 5:00 PM**

Understanding Congenital Heart Disease Through New Imaging Technology  
*T. Slesnick*

**CHANNEL GUIDEPOINT**

**4:00 PM - 5:00 PM**

**IT Echo in Acute Myocardial Infarction: From Diagnosis to Therapy**

Chair: *J. Tsutsui*  
Twitter Moderators: *A. Aneja (@ash71us); R. Janardhanan (@rajdoc2005); A. Klein (@AllanLKleinMD1); S. Mulvagh (@HeartDocSharon)*

**4:00 PM - 4:10 PM**

State-of-the-Art: Myocardial Contrast Echocardiography  
*J. Lindner*

**4:10 PM - 4:20 PM**

Myocardial Contrast Echocardiography and Wall Motion Assessment for Chest Pain in the Emergency Department  
*K. Wei*

**4:20 PM - 4:30 PM**

Myocardial Contrast Echocardiography for Assessment of Viability and Residual Ischemia Post Fibrinolytic Therapy  
*R. Senior*

**4:30 PM - 4:40 PM**

Sonothrombolysis in Acute Myocardial Infarction  
*W. Mathias*

**4:40 PM - 4:50 PM**

Coming Down the Pike: Innovations in Myocardial Infarction Diagnosis and Therapy  
*T. Porter*

**4:50 PM - 5:00 PM**

Question & Answer

**CHANNEL INSIGHT**

**4:00 PM - 5:00 PM**

**PC Imaging Solutions to Clinical Conundrums in Congenital Heart Disease**

Chairs: *N. Ayres; B. Landeck*  
Twitter Moderators: *K. Farooqi (@Kfarooqi); S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram); M. Wasserman (@MelisWasserman)*

**4:00 PM - 4:10 PM**

Bi-Ventricular Conversion  
*G. Marx*

**4:10 PM - 4:20 PM**

Panel Discussion

**4:20 PM - 4:30 PM**

Anomalous Origin of Coronaries

*P. Frommelt*

**4:30 PM - 4:40 PM**

Panel Discussion

**4:40 PM - 4:50 PM**

D-TGA

*M. Cohen*

**4:50 PM - 5:00 PM**

Panel Discussion

**CHANNEL DISCOVERY**

5:00 PM - 6:30 PM

**Episode of Care 3: Cardiomyopathy - MCS - Transplant**

*Chairs: J. Kirkpatrick; T. Nguyen*

*Twitter Moderators: J. Lopez-Mattei (@onco\_cardiology);*

*E. Michos (@ErinMichos); R. Thamman (@iamritu); D. Wiener*

*(@DavidWienerMD)*

POCUS

*N. Panebianco*

Cath Lab

*V. Mahadevan*

CT

*M. Garcia*

CT Surgeon

*J. Rove*

Nuclear

*R. Quaife*

Periop

*A. Nicoara*

Echo Sonographer

*M. Jankowski*

ICU Care

*S. Pai Cole*

Echocardiographer

*F. Silvestry*

MRI

*R. Blankstein*

Question & Answer

**CHANNEL EXPLORER**

5:30 PM - 6:30 PM

**Inflammatory Cardiovascular Diseases**

*(ASE/JSE Joint Session)*

*Chairs: I. Kronzon; K. Yakamoto*



*Twitter Moderators: A. Aneja (@ash71us); R. Janardhanan*

*(@rajdoc2005); P. Parwani (@purviparwani)*

**5:30 PM - 5:40 PM**

Cardiac Sarcoidosis: Role of Echocardiography in Multimodality Imaging

*K. Hirata*

**5:40 PM - 5:50 PM**

Cardiac Disorders in Connective Tissue Diseases

*C. Izumi*

**5:50 PM - 6:00 PM**

HIV

*J. Kizer*

**6:00 PM - 6:10 PM**

Arterial Inflammatory Diseases: Takasayu, Kawasaki, CSS, WG, PAN, and Behcets

*R. LeLeiko*

**6:10 PM - 6:20 PM**

Sepsis: The Role of Inflammation

*M. Lanspa*

**6:20 PM - 6:30 PM**

Non-Traditional Causes of Cardiac Inflammation

*D. Sanborn*

**CHANNEL GUIDEPOINT**

5:30 PM - 6:30 PM

**HFpEF: Everything You Need to Know... And More**

*Chair: A. Radhakrishnan*

*Twitter Moderator: C. Harrington (@md\_harrington)*

**5:30 PM - 5:45 PM**

Ventricular and Vascular Physiology, and Hemodynamics

*G. Aurigemma*

**5:45 PM - 6:00 PM**

Myocardial Relaxation and Stiffness in the Era of Mechanics

*O. Smiseth*

**6:00 PM - 6:15 PM**

How Will We Measure Diastolic Function 10 Years From Now?

*S. Nagueh*

**6:15 PM - 6:20 PM**

Case Discussion: What to Do When the Numbers Don't Fit the Guidelines?

*C. Harrington*

**6:20 PM - 6:25 PM**

Case Discussion: Clues to Etiology of HFpEF

*M. Bansal*

**6:25 PM - 6:30 PM**

Case Discussion: Exercise Testing

*B. Lefebvre*

**CHANNEL INSIGHT**

5:30 PM - 6:30 PM

**PC Multimodality Imaging from Fetus to Young Adults***Chair: D. Parra**Twitter Moderators: K. Farooqi (@Kfarooqi); S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram)***5:30 PM - 5:40 PM**

Aorta in Congenital Heart Disease

*J. Chew***5:40 PM - 5:50 PM**

Coronary Evaluation in Young Adults with Repaired Congenital Heart Disease

*A. Powell***5:50 PM - 6:00 PM**

Assessment of Conduits and Baffles

*T. Slesnick***6:00 PM - 6:10 PM**

Evaluation of a Failing Fontan

*M. DiMaria***6:10 PM - 6:15 PM**

Rare Fetal Case of Complex Vascular and Cardiac Interdependence in Omphaloischiopagus Conjoined Twins

*M. Gaitonde***6:15 PM - 6:30 PM**

Question &amp; Answer

6:30 PM - 7:30 PM

**NETWORKING AND HAPPY HOUR**

Visit just one channel or go between channels if more than one topic is of interest. Attendees have an opportunity to ask questions through the chat function and listen to conversations in a much more casual and relaxed setting.

**CHANNEL DISCOVERY****Ask the Luminaries**

Panel Discussion

*Pam Douglas, MD, FASE**Judy Hung, MD, FASE**Bijoy Khandheria, MD, FASE**Roberto Lang, MD, FASE**Jane Marshall, RDCS (AE/PE), FASE**Margaret Park, BS, ACS, RDCS, RVT, FASE**Vera Rigolin, MD, FASE**William Zogbhi, MD, FASE***CHANNEL EXPLORER****Women in Echo****6:30 PM - 6:40 PM****Woman in Cardiology: Navigating Your Career***A. Poppas*

Panel Discussion

*Peg Knoll, RDCS, RCS, FASE**Sharon Mulvagh, MD, FASE**Alina Nicoara, MD, FASE**Athena Poppas, MD, FASE**Ritu Thamman, MD, FASE***CHANNEL INSIGHT****Emerging Echo Enthusiasts (E3) and Early Career**

















Panel Discussion

*Serge Harb, MD**Enrique Garcia-Sayan, MD, FASE**Akhil Narang, MD, FASE**Lucy Safi, DO, FASE***CHANNEL GUIDEPOINT****Research**

Panel Discussion

*Brian Fowlkes, PhD, FAIUM**Jonathan Lindner, MD, FASE**Carol Mitchell, PhD, RDMS, RDCS, RVT, RT(R), ACS, FASE**Marielle Scherrer-Crosbie, MD, PhD, FASE*

### MONDAY, AUGUST 10 11:00 AM – 6:00 PM ET

	11:00 AM – 12:00 PM ET	12:00 – 12:30 PM ET	12:30 – 1:30 PM ET	1:30 – 3:00 PM ET	3:30 – 4:30 PM ET	4:30 – 5:00 PM ET	5:00 – 6:00 PM ET
<b>EXHIBIT HALL OPEN</b>							
<b>CHANNEL DISCOVERY</b> Future of Echo	 Stress Echo: Beyond the Borders	<b>VISIT EXHIBIT HALL</b>	 Value Summit: A Business Primer for the Echo Community	<b>VISIT EXHIBIT HALL</b>	 Value Summit: Practical Approaches for Achieving Value in Echocardiography	<b>VISIT EXHIBIT HALL</b>	 Emerging Concepts & Novel Techniques
<b>CHANNEL EXPLORER</b> Progress in Science and Technology	 Simulated Heart Valve Team Cases Discussion: Tricuspid		 Update on Infiltrative Cardiomyopathies		 Innovation in POCUS: A Case-based Approach		 Brian Haluska Sonographer Research Award Competition
<b>CHANNEL GUIDEPOINT</b> Guidelines and Best Practice	 Cardiac Function Assessment and Outcomes		 Circulation: A Cross Section		 Echo in Women		 Dual Perspectives: Early Career
<b>CHANNEL INSIGHT</b> Right Ventricle	 Multimodality Right Ventricle		 Right Heart Valve Disease: Tricuspid Regurgitation and Pulmonary Regurgitation		 The Right Stuff!		 This Just Ain't Right: Right Sided Valve and Ventricular Interventions

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 (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED

**CHANNEL DISCOVERY**

11:00 AM - 12:00 PM

**I Stress Echo: Beyond the Borders**

Chair: V. Rigolin

Twitter Moderators: J. Aragam (@AragamJayashri); M. Chetrit (@ChetritMichael); A. Narang (@AkhiNarangMD); V. Rigolin (@RigolinVera)

**11:00 AM - 11:10 AM**

How to Interpret Diastolic Changes During Stress Induced Ischemia

M. Chetrit

**11:10 AM - 11:20 AM**

Strain During Stress Echo: Value and limitations

E. Donal

**11:20 AM - 11:30 AM**

Evaluation of Right Ventricular Function During Stress

J. Aragam

**11:30 AM - 11:40 AM**

3D Stress: Does It Have A Role?

M. Ahmad

**11:40 AM - 11:50 AM**

Exercise Stress Echo in Congenital Heart Disease

I. El-Assad

**11:50 AM - 12:00 PM**

Question & Answer

**CHANNEL EXPLORER**

11:00 AM - 12:00 PM

**V Simulated Heart Valve Team Cases**

**Discussion: Tricuspid**

Chairs: R. Hahn; M. Reisman

Twitter Moderators: E. Gill (@edwardagill); R. Hahn (@hahn\_rt); R. Jain (@renujain19)

**11:00 AM - 11:10 AM**

Tricuspid Valve Imaging for Tricuspid Valve Clipping

G. Mackensen

**11:10 AM - 11:20 AM**

3D ICE for Tricuspid Valve Clipping

E. Gill

**11:20 AM - 11:30 AM**

Pre Procedure Imaging for Tricuspid Valve Clipping

E. Salcedo

**11:30 AM - 11:40 AM**

Tips for Tricuspid Valve Clip Procedure

R. Hahn

**11:40 AM - 11:50 AM**

Fusion Imaging for Tricuspid Valve Clip Procedure

R. Quaiife

**11:50 AM - 12:00 PM**

Question & Answer

**CHANNEL GUIDEPOINT**

11:00 AM - 12:00 PM

**Cardiac Function Assessment and Outcomes**

Chair: P. Frommelt

Twitter Moderators: S. Kutty (@ShelbyKuttyMD); P. Shivaram (@PushpaShivaram); Melissa Wasserman (@MelisWasserman)

**11:00 AM - 11:10 AM**

Right Ventricular Adaptations to Pressure and Volume Overload

M. Friedberg

**11:10 AM - 11:20 AM**

How Do Echo Markers of Right Ventricular Function Relate to Outcomes

S. Buddhe

**11:20 AM - 11:30 AM**

Left Ventricular Rotational Mechanics: Channel Insights Into Ventricular Interactions

S. Srivastava

**11:30 AM - 11:40 AM**

Comprehensive Assessment of Single Ventricular Function

N. Khoo

**11:40 AM - 11:50 AM**

Echo Predictors of Outcomes in Cardiomyopathies

P. Barker

**11:50 AM - 11:55 AM**

Non-Invasive Left Ventricular Pressure-Strain Loops, A New Approach to Assess Myocardial Work in Pediatrics

D. Aly

**11:55 AM - 12:00 PM**

Question & Answer

**CHANNEL INSIGHT**

11:00 AM - 12:00 PM

**M Multimodality Right Ventricle**

Chair: S. Spina

Twitter Moderators: L. Badano (@lbadano); A. Hays (@AllisonGHaysMD); M. Mukherjee (@MMukherjeeMD); A. Patel (@AmitRPatelMD)

**11:00 AM - 11:10 AM**

Novel Echo Techniques: 3D, Contrast, and Beyond

Y. Han

**11:10 AM - 11:20 AM**

RV Strain: Is It Useful?  
*L. Rudski*

**11:20 AM - 11:30 AM**

When Echo Is Not Enough: MRI of the Right Ventricle  
*A. Patel*

**11:30 AM - 11:40 AM**

Imaging in Pulmonary Hypertension  
*N. Schiller*

**11:40 AM - 11:50 AM**

The Right Ventricle in Right Sided Valve Diseases  
*V. Pham*

**11:50 AM - 12:00 PM**

Mechanical Circulatory Support for the Right Ventricle  
*J. Kirkpatrick*

**CHANNEL DISCOVERY**

12:30 PM - 1:30 PM

**S Value Summit: A Business Primer for the Echo Community**

Chairs: *M. Main; M. Picard*  
Twitter Moderator: *D. Wiener (@DavidWienerMD)*

**12:30 PM - 12:50 PM**

Legislative and Regulatory Update  
*L. Aronson*

**12:30 PM - 12:50 PM**

Legislative and Regulatory Update  
*D. Rosen*

**12:50 PM - 1:00 PM**

PFS, HOPPS, and DRGs: The Xs and Os of Echo Reimbursement  
*G. Rose*

**1:00 PM - 1:10 PM**

Population Health: What Is it and What Role will Echo Play?  
*S. Mayer*

**1:10 PM - 1:30 PM**

Question & Answer

**CHANNEL EXPLORER**

12:30 PM - 1:30 PM

**S Update on Infiltrative Cardiomyopathies**

Chairs: *T. Edvardsen; A. Pardo*  
Twitter Moderators: *R. Janardhanan (@rajdoc2005); J. Lopez-Mattei (@onco\_cardiology); D. Phelan (@DermotPhelanMD)*

**12:30 PM - 12:40 PM**

Cardiac Amyloid: Subtypes and Modern Therapies  
*M. Hanna*

**12:40 PM - 12:50 PM**

Non Amyloid Storage Diseases: Etiologies, Clinical Presentation & Therapies  
*L. Blauwet*

**12:50 PM - 1:00 PM**

Strain Echo in Amyloid and Non Amyloid Infiltrative Disease  
*D. Phelan*

**1:00 PM - 1:10 PM**

CMR in Management of Infiltrative Cardiomyopathies  
*A. Hays*

**1:10 PM - 1:20 PM**

Nuclear Techniques in Assessment of Infiltrative Cardiomyopathies  
*M. Pampaloni*

**1:20 PM - 1:30 PM**

Question & Answer

**CHANNEL GUIDEPOINT**

12:30 PM - 1:30 PM

**C Circulation: A Cross Section**

Chairs: *F. Shamoun; B. Wells*  
Twitter Moderator: *C. Fanola (@DrCFanola); A. Johri (@amerjohri); B. Wells (@wellsbryanj)*

**12:30 PM - 12:35 PM**

Introduction  
*B. Wells*

**12:35 PM - 12:50 PM**

Ultrasound in the Diagnosis of Acute Aortic Emergencies  
*C. Fanola*

**12:50 PM - 1:05 PM**

Spontaneous Coronary Artery Dissection: Now What Do We Do?  
*E. Kim*

**1:05 PM - 1:20 PM**

The Vascular Manifestations of COVID-19  
*M. Vorsanger*

**1:20 PM - 1:30 PM**

Question & Answer

**CHANNEL INSIGHT**

12:30 PM - 1:30 PM

**V Right Heart Valve Disease: Tricuspid Regurgitation and PR**

Chairs: *P. Pellikka; J. Plana*  
Twitter Moderators: *L. Badano (@lbadano); R. Janardhanan (@rajdoc2005); S. Kort (@SmadarKort)*



## 12:30 PM - 12:40 PM

Cases: Anatomy and Pathology (Mechanism) of Tricuspid Regurgitation  
*V. Nkomo*

## 12:40 PM - 12:50 PM

Natural History of Tricuspid Regurgitation  
*K. Tolstrup*

## 12:50 PM - 1:00 PM

Carcinoid/Ebstein  
*S. Kort*

## 1:00 PM - 1:10 PM

Tricuspid Regurgitation Due to Pacemaker: Is the Pacemaker to Blame?  
*A. Khanna*

## 1:10 PM - 1:20 PM

Is the Tricuspid Valve Repairable? 2D and 3D Assessment and Imaging Planes  
*L. Badano*

## 1:20 PM - 1:30 PM

Question & Answer

## CHANNEL DISCOVERY

3:30 PM - 4:30 PM

### Value Summit: Practical Approaches for Achieving Value in Echocardiography

Chairs: *B. Byrd; P. Rahko*  
Twitter Moderator: *D. Ignatowski (@DeniseIgnatowski1)*;  
*A. Johri (@amerjohri)*

## 3:30 PM - 3:40 PM

Our Lab's Approach to Quality Improvement  
*M. Bremer*

## 3:40 PM - 3:50 PM

Our Lab's Approach to POCUS and Limited Echos  
*R. Grimm*

## 3:50 PM - 4:00 PM

Our Lab's Approach to Improving Lab Efficiency  
*B. Khandheria*

## 4:00 PM - 4:10 PM

Our Lab's Approach to Continuous Learning  
*J. Marshall*

## 4:10 PM - 4:20 PM

Our Lab's Approach to Caring for Our Caregivers  
*A. Hays*

## 4:20 PM - 4:30 PM

Question & Answer

## CHANNEL EXPLORER

3:30 PM - 4:30 PM

### Innovation in POCUS: A Case-based Approach

Chair: *S. Raza*  
Twitter Moderator: *S. Raza (@SamRRazaMD)*

## 3:30 PM - 3:40 PM

POCUS Solves Problems in the Peri-Procedural Arena  
*K. Subramaniam*

## 3:40 PM - 3:50 PM

POCUS in the Emergency Department  
*N. Panebianco*

## 3:50 PM - 4:00 PM

The Pregnant Woman and Right Ventricular Strain  
*S. Shahul*

## 4:00 PM - 4:10 PM

Innovative Use of Ultrasound in Regional Nerve Blocks  
*A. Tsai*

## 4:10 PM - 4:20 PM

Miniature Technology and Innovation in POCUS  
*S. Raza*

## 4:20 PM - 4:30 PM

Question & Answer

## CHANNEL GUIDEPOINT

3:30 PM - 4:30 PM

### Special Session: Echo in Women

Chair: *M. Wood*  
Twitter Moderators: *T. Coutinho (@thaiscouthinoCV)*;  
*N. Scott (@NanditaScott)*; *M. Tweet (@marysia\_tweet)*

## 3:30 PM - 3:38 PM

Stress Testing to Diagnose Chest Pain  
*H. Nguyen*

## 3:38 PM - 3:46 PM

Acute Coronary Syndromes: Takotsubo, SCAD, MINOCA  
*M. Tweet*

## 3:46 PM - 3:54 PM

Pregnancy: Physiology, Cardiomyopathy, Valves  
*N. Scott*

## 3:54 PM - 4:02 PM

Vascular and Valves: Aortopathy, TAVR  
*T. Coutinho*

## 4:02 PM - 4:10 PM

HFpEF  
*S. Sengupta*

## 4:10 PM - 4:18 PM

Pregnancy and Adult Congenital Heart Disease  
*I. Harris*

## 4:18 PM - 4:30 PM

Question & Answer

## CHANNEL INSIGHT

### 3:30 PM - 4:30 PM

#### **P** The Right Stuff

*Chair: A. Nicoara*

*Twitter Moderator: A. Narang (@AkhiINarangMD);*

*L. Safi (@LucySafi)*

### 3:30 PM - 3:45 PM

Peri-Procedural Tricuspid Valve Assessment. Dynamic Valve Geometry, Surgical/Procedural Correlation  
*A. Maslow*

### 3:45 PM - 4:00 PM

Peri-Procedural Tricuspid Regurgitation Assessment: Should We Change the Way We Think About Tricuspid Regurgitation?  
*R. Hahn*

### 4:00 PM - 4:15 PM

Peri-Procedural Right Ventricular Functional Assessment: Echocardiography Versus Hemodynamics  
*N. Silvertan*

### 4:15 PM - 4:30 PM

Question & Answer

## CHANNEL DISCOVERY

### 5:00 PM - 6:00 PM

#### **E** Emerging Concepts & Novel Techniques

*Chair: E. Shea*

*Twitter Moderators: M. Park (@kokopark13); M. Umland (@EchoUmland)*

### 5:00 PM - 5:10 PM

Malignant Mitral Valve Prolapse  
*S. Roemer*

### 5:10 PM - 5:20 PM

Myocardial Works  
*A. Davis*

### 5:20 PM - 5:30 PM

Hypertrophic Obstructive Cardiomyopathy Stress  
*I. Kwan*

### 5:30 PM - 5:40 PM

Emerging Concepts in Tricuspid Evaluation  
*M. Park*

## 5:40 PM - 5:50 PM

Role of Echo in COVID-19  
*M. Umland*

## 5:50 PM - 6:00 PM

Question & Answer

## CHANNEL EXPLORER

### 5:00 PM - 6:00 PM

#### **E** The Brian Haluska Sonographer Research Award Competition

*Chair: M. Main*

*Judges: K. Collins; K. Kasir; S. Mulvagh*

*Twitter Moderators: K. Kasir (@KasirKelly); S. Mulvagh (@HeartDocSharon)*

### 5:00 PM - 5:03 PM

Welcome and Introduction of Judges  
*M. Main*

### 5:03 PM - 5:13 PM

SIA-01: Optimal Quantification of Functional Mitral Regurgitation: Comparison of Volumetric and PISA Methods on Mid-Term Outcome  
*S. Igata*

### 5:13 PM - 5:23 PM

SIA-02: Is There More Than Meets the Eye to TRI and Bicuspid Aortic Valves - Exploring Geometric and Hemodynamic Differences and Recognizing the Need to Optimize the Continuity Equation by Phenotype?  
*A. Frampton*

### 5:23 PM - 5:33 PM

SIA-03: Respiratory Dependence of Tricuspid Regurgitation  
*M. Yamat*

### 5:33 PM - 5:43 PM

SIA-04: Cardiac Function Improves in Growth Restricted Fetuses: A Longitudinal Study from in Utero to Three Years After Birth  
*C. Cassidy*

### 5:43 PM - 5:45 PM

Introduction of Guest Speaker  
*M. Main*

### 5:45 PM - 5:55 PM

Guest Speaker  
*H. Warraich*

### 5:55 PM - 6:00 PM

Recognition of Competition Finalists, Announcement of Winner  
*M. Main*

## CHANNEL GUIDEPOINT

5:00 PM - 6:00 PM

### **Dual Perspectives: Early Career**

Chair: L. Freud; R. Thamman

Twitter Moderators: T. Chen (@tiffchenMD); A. Narang (@AkhilNarangMD); L. Safi (@LucySafi); J. Strom (@DocStrom); R. Thamman (@iamritu)

**5:00 PM - 5:20 PM**

Private Practice vs. Academia

R. Thamman

**5:00 PM - 5:20 PM**

Private Practice vs. Academia

M. Scherrer-Crosbie

**5:20 PM - 5:40 PM**

Master of Many vs. Master of One

P. Patil

**5:20 PM - 5:40 PM**

Master of Many vs. Master of One

S. Wiegers

**5:40 PM - 6:00 PM**

K or not to K? Start-up Funding Opportunities

S. Peyvandi

**5:40 PM - 6:00 PM**

K or not to K? Start-up Funding Opportunities

L. Freud

## CHANNEL INSIGHT

5:00 PM - 6:00 PM

### **This Just Ain't Right: Right Sided Valve and Ventricular Interventions**

Chair: R. Stainback

Twitter Moderators: A. Aneja (@ash71us); N. Faza (@NadeenFaza); R. Jain (@renujain19); R. Janardhanan (@rajdoc2005)

**5:00 PM - 5:13 PM**

Interventional Options for the Tricuspid Valve

V. Mahadevan

**5:13 PM - 5:26 PM**

Pre and Intra Operative Imaging for Tricuspid Valve Interventions

S. Little

**5:26 PM - 5:39 PM**

Percutaneous Options for Right Ventricular Mechanical Support

N. Kapur

**5:39 PM - 5:42 PM**

Unique Imaging Perspective for Monitoring Right

Ventricular Support Devices

R. Stainback

# ASE 2020

THE NEXT  
MILLENNIUM

## THANK YOU ASE 2020 TWITTER SESSION MODERATORS

Mirvat Alasnag, MD, FASE  
@mirvatalasnag

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DMU, AMS, ACS, FASE  
@BonitaEcho

Ashish Aneja, MBBS, MD, FASE  
@ash71us

Jayashri Aragam, MD, FASE  
@AragamJayashri

Luigi Badano, MD, FASE  
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