



# ECHO 20 YEARS 1999 2018

## Echocardiography Conference: State-of-the-Art 2018

Dates:

April 18-20, 2018

Location:

Crowne Plaza Times Square, New York, NY

Presented by:

Rebecca Hahn, MD

For more information, visit:

**NYECHOCOURSE.COM**

Sponsored by:



Cardiovascular  
Research Foundation

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COLUMBIA UNIVERSITY  
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Morristown  
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The 20th Annual State-of-the-Art Echo Course has been developed to review society guidelines for evaluation of cardiac structure and function. This course will familiarize attendees with recent technological advances in the field. Nationally renowned experts in echocardiography, valvular heart disease, and new imaging modalities will present the most up-to-date information, with hands-on demonstrations of basic and advanced Doppler offered on the first and second days. Participants are invited to present cases throughout the conference.



## Learning Objectives

By the end of this course, participants should be able to:

- Apply the ASE Guidelines document for quantification of left and right ventricular size and function using M-mode, 2-dimensional, and 3-dimensional echocardiography, as well as newer modalities such as strain imaging.
- Recognize the criteria for assessing diastolic dysfunction according to the new ASE Guidelines.
- Employ qualitative and quantitative measures to describe the severity of valvular heart disease, including prosthetic valve disease, and apply the current ASE guidelines.
- Know the utility of echocardiography in systolic heart failure diagnosis and therapy, including the new ASE recommendations for the management of ventricular assist devices.
- Describe the echocardiographic and Doppler methods to assess pericardial disease as per the new ASE guidelines.
- Recognize the spectrum of diseases of the aorta and the ASE recommended approaches to the use of imaging for diagnosis and management.
- Identify the utility of stress echocardiography for evaluation of coronary heart disease, dyspnea, and valvular heart disease.
- Recognize the utility of transesophageal and intracardiac imaging in management decisions in the interventional lab, operating room, and intensive care unit.
- Explain the complementary use of other imaging modalities such as CT, MRI, and vascular imaging.
- Recognize the echocardiographic presentation of special patient populations, including those with cancer, congenital heart disease, athletes with heart disease, and heart disease in pregnancy.

## Who is This Course For?

This course is intended for anesthesiologists, cardiologists, sonographers, and medical professionals who are interested in a comprehensive review of echocardiography and an introduction to the newest advances in the field.

- Fundamental and Advanced Chamber Quantification: ASE Guidelines and Beyond
- Comprehensive Cardiac Hemodynamics
- Advanced Quantitation of Valvular Heart Disease with Case Studies
- Role of 3-D Echo in Assessment of Valvular Heart Disease
- Heart Failure: Acute and Decompensated, Systolic and Diastolic
- The Evaluation of Chest Pain: Coronary Artery and Aortic Disease
- Transesophageal Echocardiography
- Congenital Echocardiography in the Adult
- Practical Workshop on Strain and 3-D Cropping.
- Attend Wednesday afternoon workshops and you will receive a time-limited, fully functional, uploadable version of QLAB as well as important TEE and TTE volumes.
- Echocardiography in 2018 and Beyond
- Hemodynamics

## CME Accreditation and Designation



The Cardiovascular Research Foundation is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cardiovascular Research Foundation designates this live activity for a maximum of 25.5 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Documentation of awarded credit is provided for registered attendees in exchange for completed activity evaluations. Certificates of attendance are provided to all registered attendees in their meeting materials.

## Activity Evaluation

Evaluation will address content, presentation, possible bias, and future educational needs.

## Disclosure Statement

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## Program Sponsorship and Support

This activity is sponsored by the Cardiovascular Research Foundation, Columbia University Medical Center, and Morristown Medical Center. This conference is partially funded through educational grants from commercial supporters.

## Faculty\*

### Course Director

Rebecca T. Hahn, MD, FASE, FACC

### Invited Faculty

Gerard P. Aurigemma, MD, FASE, FACC

Stephen H. Little, MD

Jennifer Liu, MD, FASE, FACC

Jae K. Oh, MD, FASE, FACC

Madalina Petrescu, MD

Philippe Pibarot, DVM, PhD, FACC, FESC

Michael H. Picard, MD, FASE, FACC

Muhamed Saric, MD

Karen Stout, MD

James D. Thomas, MD, FASE, FACC, FESC

Neil J. Weissman, MD, FASE, FACC

### New York-Presbyterian/

### Columbia University Medical Center Staff

Vinayak Bapat, CTh

Esther Bass, RDCS, RCCS, RDMS, FASE

Kerry A. Esquitin, MD, FACC, FACP, RPVI

Omar K. Khalique, MD, FACC, FASE

Oliver P F Panzer, MD

### Morristown Medical Center

Linda D. Gillam, MD, MPH, FASE, FACC

Konstantinos P. Koulogiannis, MD

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*\*Faculty is subject to change.*

# Agenda\*

**Wednesday, April 18, 2018**

## Main Session, Day 1

**6:30 AM-6:00 PM**

### **Registration and Continental Breakfast**

6:30 AM-7:30 AM

### **Welcome**

7:30 AM-7:40 AM

### **General Echocardiography**

7:40 AM-10:40 AM

7:40 AM

**Plenary Lecture: The Power of Volunteerism in Echocardiography**

8:00 AM

**Understanding Ultrasound Physics to Optimize Imaging**

8:20 AM

**Chamber Quantification Guidelines Update I: Left Heart Measurements**

8:40 AM

**Chamber Quantification Guidelines Update II: Right Heart Measurements**

9:00 AM

**Measuring Myocardial Mechanics: How To and Why**

9:20 AM

**Echo Hemodynamics I: Stroke Volume, Intracardiac Pressure, and Vascular Resistance**

9:45 AM

**Echo Hemodynamics II: Echo Quantification of Valvular Regurgitation (Vena Contracta, Effective Regurgitant Orifice Area, and Regurgitant Volume)**

10:05 AM

**Question and Answer**

10:20 AM

**Break and Visit Exhibits**

### **ASE Guidelines Review**

10:40 AM-12:15 PM

10:40 AM

**ASE Diastolic Function Guidelines: Diastology Simplified**

11:05 AM

**Diastology Cases: Putting the Guidelines to Use**

11:25 AM

**ASE Clinical Recommendations: Imaging of Patients With Pericardial Disease**

11:50 AM

**Question and Answer**

12:00 PM

**Break and Visit Exhibits**

## Lunch Satellite Program, Day 1

### **Mitral Regurgitation:**

#### **Can Imaging Solve the Problem**

*(Sponsored by CRF, supported through an educational grant from Medtronic)*

12:15 PM-1:15 PM

*Room: Broadway Ballroom Act I-III*

12:15 PM

**Mitral Regurgitation: The Importance of Morphology**

12:27 PM

**Nuances of Imaging Echo in Patients MR and Chronic Heart Failure: Why LV Size and Function Makes a Difference**

12:39 PM

**Role of Imaging in the TMVR Procedure**

12:51 PM

**Early Experience With New Transcatheter Mitral Valve Replacement**

1:03 PM

**Discussion**

1:15 PM

**Adjourn**

### **Break**

1:15 PM-1:25 PM

### **ASE Guidelines Review** *(continued)*

1:25 PM-4:00 PM

1:25 PM

**Multimodality Imaging of Diseases of the Thoracic Aorta in Adults**

1:45 PM

**Transesophageal Echo: The 28 Essential Views (and more)**

2:05 PM

**Assessment of ASD and PFO and Evaluation of a Cardiac Source of Embolism**

2:25 PM

**Echocardiography in the Management of Patients With Left Ventricular Assist Devices**

2:45 PM

**Guidelines for 3D Acquisition and Imaging**

3:05 PM

**Expert Consensus for Multimodality Imaging Evaluation of Adult Patients During and After Cancer**

3:25 PM

**Question and Answer**

3:40 PM

**Break & Visit Exhibits**

### **Coronary Artery Disease**

4:00 PM-5:15 PM

4:00 PM

**MI Complications-Case Illustrations**

4:20 PM

**Stress Echo – Basics and Interpretation Tips**

4:40 PM

**Valvular and Hemodynamic Stress Testing**

5:00 PM

**Question and Answer**

## Concurrent Session I, Day 1

### **Stress Echo Cases –**

#### **Are You As Good As The Experts?**

5:15 PM-6:00 PM

*Room: Broadway Ballroom Act I-III*

## Concurrent Session II, Day 1

### **Learning Lab: Acquisition**

#### **Protocols (Basic and Advanced)**

5:15 PM-6:00 PM

*Room: 405-406*

**Thursday, April 19, 2018**

## Main Session, Day 2

**6:30 AM-6:00 PM**

### **Registration and Continental Breakfast**

6:30 AM-7:30 AM

## “Breakfast With Champions”: Attendee Cases and Questions, Day 2

6:30 AM-7:30 AM

*Room: Broadway Ballroom Act IV*

### **Valvular Heart Disease I**

7:30 AM-10:20 AM

7:30 AM

**Live Dissection: Aortic and Mitral Valve**

8:00 AM

**Basic and Advanced Assessment of Aortic Stenosis: New ASE Guidelines**

8:25 AM

**Low Gradient, Severe Aortic Stenosis**

8:45 AM

**Pitfalls of Assessing Mitral Stenosis**

9:00 AM

**Strengths and Weaknesses of Mitral Regurgitation Quantification: Is There a Difference Between Primary and Secondary?**

9:20 AM

**Nuances of Aortic Regurgitation Assessment**

9:40 AM

**Question and Answer**

9:50 AM

**Break and Visit Exhibits**

### **Valvular Heart Disease II**

10:20 AM-12:15 PM

10:20 AM

**The Role of Echo in the Management of Asymptomatic Valvular Heart Disease**

10:40 AM

**ASE Guidelines: Basic Assessment of Normal Prosthetic Valve Function**

11:00 AM

**Prosthetic Valve Cases: Putting the Guidelines to Use**

11:20 AM

**Question and Answer**

11:30 AM

**Cases: Discrepant Valvular Quantification**

12:00 PM

**Break and Visit Exhibits**

## Lunch Satellite Program, Day 2

### **TBD**

*(Sponsored by TBD)*

12:15 PM-1:15 PM

*Room: Broadway Ballroom Act I-III*

### **Break**

1:15 PM-1:25 PM

*(continued on next page)*

*\*Agenda is subject to change.*

# Agenda\* (continued)

## Thursday, April 19, 2018 (continued)

### Valvular Heart Disease II and Heart Failure

1:25 PM-4:30 PM

1:25 PM

**Live Dissection Valvular Heart Disease:  
Tricuspid and Pulmonic Valve**

1:45 PM

**Echocardiography of Right Heart Valves**

2:00 PM

**Pulmonary Hypertension and the Role  
of Echocardiography**

2:15 PM

**The Role of CMR in Assessing Valvular  
Heart Disease**

2:30 PM

**Question and Answer**

2:50 PM

**Break and Visit Exhibits**

3:10 PM

**Hypertrophic Cardiomyopathy**

3:30 PM

**Restrictive and Infiltrative Cardiomyopathy –  
Recognition by Echo**

3:50 PM

**Cardiac Transplant: The Role of Echo**

4:10 PM

**Question and Answer**

### Concurrent Session I, Day 2

#### Cases – When Contrast Saves the Day and other Diagnostic Conundrums

4:30 PM-6:00 PM

Room: Broadway Ballroom Act I-III

### Concurrent Session II, Day 2

#### Hands-On Sessions

4:30 PM-6:00 PM

Room: 405-406

4:30 PM

**Section 1: TEE**

4:30 PM

**Section 2: Hands-on Hearts**

4:30 PM

**Section 3: Point of Care Echo**

## Friday, April 20, 2018

### Breakfast Satellite Program, Day 3

6:50 AM-7:50 AM

Room: Broadway Ballroom Act I-III

### Main Session, Day 3

6:30 AM-12:15 PM

#### Registration and Continental Breakfast

6:30 AM-7:50 AM

#### Break

7:50 AM-8:00 AM

#### Clinical Echocardiography

8:00 AM-12:15 PM

8:00 AM

**Interventional Echocardiography**

8:20 AM

**Introduction to Vascular Medicine**

8:40 AM

**Point-of-Care Echocardiography**

9:00 AM

**Clinical Decision Making in Endocarditis**

9:20 AM

**Echo Evaluation of Pregnant Patients  
With Heart Disease**

9:40 AM

**Question and Answer**

10:00 AM

**Break and Visit Exhibits**

10:15 AM

**Echocardiographic Approach to Congenital  
Heart Disease I: Evaluating the Unoperated Adult**

10:45 AM

**Approach to Congenital Heart Disease II:  
Evaluating the Post-Operative Adult**

11:10 AM

**Cardiac Masses**

11:35 AM

**Screening of Athletes: Echo and Other Modalities**

11:55 AM

**Question and Answer**

### Concurrent Imaging Workshop I, Day 3

#### Concurrent Session I. Basic 3D Echo Workshop

1:30 PM-5:30 PM

Room: Broadway Ballroom Act I-III

1:30 PM

**Echo: Introduction to 3D Acquisition  
and Live Demo**

2:00 PM

**Introduction to 3D Image Display and Analysis**

2:15 PM

**3D Workshop: LV, LA Measurements**

2:45 PM

**3D Workshop: Aortic Valve Measurements**

3:20 PM

**Question & Answer**

3:35 PM

**Break**

4:00 PM

**3D Workshop: Mitral Valve Measurements**

4:40 PM

**3D Workshop: Cases**

5:00 PM

**Question & Answer**

5:15 PM

**Closing Remarks**

### Concurrent Imaging Workshop II, Day 3

#### Concurrent Session II. 3D Echo Workshop: From Basic to Advanced

1:00 PM-5:30 PM

Room: Broadway Ballroom Act IV

1:00 PM

**Lecture: Echocardiographic Imaging for TAVR**

1:25 PM

**3D Echo Workshop: TAVR-specific TEE  
Measurements**

1:50 PM

**Lecture: Understanding 3D Anatomy for Guiding  
MitraClip Procedures**

2:10 PM

**3D Echo Workshop: MitraClip-specific TEE  
Measurements**

2:45 PM

**Question & Answer**

3:00 PM

**Break**

3:30 PM

**Lecture: Imaging for Tricuspid Valve Interventions**

4:05 PM

**3D Echo Workshop: Tricuspid TEE Measurements**

4:35 PM

**TEE Simulator Training**

5:15 PM

**Return to Broadway Ballroom for Closing Remarks**

\*Agenda is subject to change.

## Visit the Exhibit Hall

Wednesday, April 18, 2018

9:00 AM-5:00 PM

Thursday, April 19, 2018

9:00 AM-5:00 PM

Friday, April 20, 2018

9:00 AM-11:00 AM

For more information, visit:

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