



THE 42<sup>ND</sup> ANNUAL

# ECHO

NORTHWESTERN 2020

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2.5 AMA PRA CATEGORY 1 CREDITS™**

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**ADDITIONAL 8.5 CREDITS AVAILABLE  
THROUGH ON DEMAND LECTURES!**

**SATURDAY, NOVEMBER 7, 2020**

**SPONSORED BY**

Northwestern University Feinberg School of Medicine  
Office of Continuing Medical Education  
and Bluhm Cardiovascular Institute at Northwestern Medicine

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## THE 42<sup>ND</sup> ANNUAL **ECHO** NORTHWESTERN 2020

Principles of echocardiography will be reviewed and advances will be demonstrated through lectures and case studies. Participants will be exposed to all aspects of basic and advanced echocardiography. Daily sessions will be devoted to state of the art lectures on advances in echocardiography and specific application to the following states:

- Heart Failure
- Coronary Artery Disease
- Interventional Echocardiography
- Congenital Heart Disease
- Valvular Heart Disease
- Strain Imaging

Case studies will be interspersed throughout each of the lectures to emphasize the importance and clinical utility of each technique discussed. The case studies will emphasize different topics in echocardiography that are seen in daily practice.

### LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

1. Apply the recommendations for the echocardiographic evaluation of left ventricle function to clinical practice.
2. Explain the role of echo in the treatment of heart failure.
3. Use strain imaging to assess cardiac function in various pathological states
4. Discover methodology to assess diastolic function using the ASE diastology guidelines.
5. Assess patients with valvular disorders using the most recent ACC/AHA guidelines for valvular heart disease and the ASE guidelines for the assessment of native valve regurgitation, native valve stenosis, prosthetic valve function and percutaneous devices.
6. Recognize different echocardiographic methods to assess Right Ventricular structure function. Cite the strengths and weakness of these techniques including complementary technologies: CT and MRI.
7. Discuss the clinical classification of pulmonary hypertension, its implications for the patient and how echo can help in assessing its severity and guide management of patients with the condition.
8. Evaluate how 3D echo works and express limitations and potential applications as it relates to daily practice and patient management.
9. Assess the uses of echo contrast agents (imaging enhancing agents) and how to incorporate the use of the agents into a busy echo lab.
10. Evaluate the role of echo in the diagnosis and treatment of patients with aortic stenosis.

11. Recognize the pathology and the basics of echocardiographic assessment of patients with common congenital heart lesions.
12. Review the role of echo in surgical and percutaneous treatments of aortic stenosis and mitral regurgitation.
13. Review the role of echo in new percutaneous treatment of tricuspid regurgitation.
14. Review the role of echo in guiding other percutaneous procedures such as left atrial appendage closure.
15. Appreciate the critical role of echo in the cardio-oncology patient.

### TARGET AUDIENCE

This continuing medical education program is designed to meet the educational needs of cardiologists, cardiology fellows, surgeons, sonographers and nurses who have a need for echo expertise. A minimum of three months experience in echocardiography and knowledge of basic transesophageal anatomy and physiology of the heart is required.

### ACCREDITATION STATEMENT

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### CREDIT DESIGNATION STATEMENT\*

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 2.5 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

\*In addition to the live activity, 8.5 hours of enduring material will be available to all registrants.

### MOC CREDIT RECOGNITION STATEMENT\*

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 2.5 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program for the live portion. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

\*In addition to the live activity, 8.5 MOC hours of enduring material will be available to registrants.

### FACULTY DISCLOSURE

Northwestern University FSM requires course directors, speakers, instructors, planners and other individuals who are in a position to control the content of this activity to disclose any relevant financial relationships. All identified potential conflicts of interest, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations are thoroughly vetted by Northwestern University FSM for fair balance. The faculty disclosures will be indicated in the course syllabus.

### VIRTUAL FORMAT

A website link to the one day live program will be sent out to registered participants one week prior to the conference date. Links to the pre-recorded sessions will be available at a later date.

### SPECIAL NEEDS

The Feinberg School of Medicine fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any participant of this conference is in need of accommodation please submit a written request to [cvconferences@northwestern.edu](mailto:cvconferences@northwestern.edu) prior to the conference date.

### ADDITIONAL INFORMATION

For additional program information please visit <http://northwestern.cloud-cme.com> or email us at [cvconferences@northwestern.edu](mailto:cvconferences@northwestern.edu).

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Director, Institute for Augmented  
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Feinberg School of Medicine

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Vice Dean, Diversity & Inclusion  
Magerstadt Professor of Medicine  
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Feinberg School of Medicine

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Northwestern Medicine

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### **Bonnie Kane, BS, RDCS, FASE**

### **Milica Marion, RDCS**

### **Lisa Monti, RDCS**

### **Lauren Nelson, RDMS, RVT, RDCS, FASE**

### **Juliet Ryan, BS, RDCS, FASE**

### **Shelley Sarson, BA, RDCS, FASE, ACS**

SATURDAY, NOVEMBER 7, 2020

ENDURING ON DEMAND LECTURES

## LIVE SESSION:

10:00 am **Treatment of Valvular Heart Disease**  
 MODERATOR  
 James Thomas, MD, FASE

CASE PRESENTATIONS  
 O'Neil Mason, MD  
 Akhil Narang, MD  
 Jyothy Puthumana, MD FASE

PANEL  
 Robert Bonow, MD, MS  
 Charles Davidson, MD  
 Patrick McCarthy, MD  
 Vera Rigolin, MD, FASE  
 James Thomas, MD, FASE

10:45 am **Heart Failure**  
 MODERATOR  
 Issam Mikati, MD, FASE

CASE PRESENTATIONS  
 Ravi Patel, MD, MSc  
 Juliet Ryan, BS, RDCS, FASE  
 Jane Wilcox, MD, MSc

PANEL  
 Ewa Dembowski, MD  
 Benjamin Freed, MD, FASE  
 Issam Mikati, MD, FASE  
 Sanjiv Shah, MD, FASE  
 Jane Wilcox, MD, MSc  
 Clyde Yancy, MD, MSc

11:30 am **Miscellaneous Echo Topics**  
 MODERATOR  
 Benjamin Freed, MD, FASE

CASE PRESENTATIONS  
 Gregory Cascino, MD  
 Lisa Monti, RDCS  
 Bob Silverberg, MD  
 Allison Zielinski, MD

PANEL:  
 Nausheen Akhter, MD, FASE  
 Kameswari Maganti, MD, FASE  
 David Mehlman, MD, FASE  
 Patricia Vassallo, MD, FASE

## VALVULAR HEART DISEASE

**State of the Art Lecture:**  
**Current Trends in the Treatment of Valvular Heart Disease**  
 James Thomas, MD, FASE

CASE PRESENTATIONS

**Mitral Valve Disease**  
 Fei Fei Gong, MD  
 Bonnie Kane, RDCS, FASE  
 Vera Rigolin, MD, FASE

**Aortic Valve Disease**  
 Kameswari Maganti, MD, FASE  
 Shelley Sarson, BA, RDCS, FASE, ACS  
 Ramsey Wehbe, MD

**Tricuspid Valve Disease**  
 Akhil Narang, MD  
 Andrew Peters, MD  
 Jyothy Puthumana, MD, FASE

**Prosthetic Valves**  
 Madeline Jankowski, RDCS, FASE  
 O'Neil Mason, MD  
 David Mehlman, MD, FASE

## RIGHT VENTRICLE AND PULMONARY HYPERTENSION

**State of the Art Lecture:**  
**Echo Guidance in Pulmonary Hypertension: Beyond Pulmonary Arterial Pressure**  
 Benjamin Freed, MD, FASE

CASE PRESENTATION  
 Jessica Bennett, RDCS, RVT  
 Micah Eimer, MD  
 David Mehlman, MD, FASE  
 Issam Mikati, MD, FASE

## HEART FAILURE

**State of the Art Lecture:**  
**Echo is the Key Test for Diagnosis and Management of HFpEF**  
 Sanjiv Shah, MD, FASE

**State of the Art Lecture:**  
**Diastology is Not Always Indeterminate**  
 Ewa Dembowski, MD

**Strain Imaging:**  
**Where are We Now?**  
 James Thomas, MD, FASE

CASE PRESENTATION  
 Issam Mikati, MD, FASE  
 Lauren Nelson, RDMS, RVT, RDCS, FASE  
 Ravi Patel, MD, MSc  
 Robert Silverberg, MD

## CONGENITAL HEART DISEASE

**State of the Art Lecture:**  
**Imaging of the Patient with CHD**  
 Andrew de Freitas, MD

CASE PRESENTATION  
 Gregory Cascino, MD  
 Brian Fey, BA, RDCS (AE/PE), ACS, FASE  
 Lisa Forbess, MD

## POTPOURRI OF ECHO TOPICS

**State of the Art Lecture:**  
**Artificial Intelligence: Friend and Foe?**  
 Akhil Narang, MD

CASE PRESENTATIONS

**Cardio-oncology**  
 Nausheen Akhter, MD, FASE

**Ultrasound Enhancing Agents**  
 Patricia Vassallo, MD, FASE

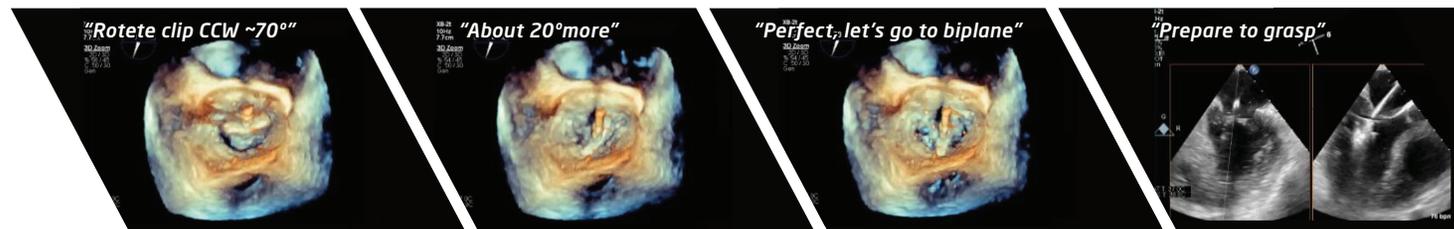
**COVID 19**  
 Ramsey Wehbe, MD

**Athlete's Heart**  
 Allison Zielinski, MD

## HOW TO SESSIONS

**Strain How-to**

**3D How-to**  
 Keith Collins, MS, RDCS, FASE  
 Milica Marion, RDCS



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NORTHWESTERN 2020

## REGISTRATION FEE

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ASE Physicians  
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ASE Sonographers  
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Nurses, Residents, Fellows

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☐ \$930

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☐ \$500

## REGISTER TODAY!

### HOW TO REGISTER

 **ONLINE** - Please visit [www.cme.northwestern.edu](http://www.cme.northwestern.edu)

### QUESTIONS

Questions regarding registration should be directed to the Office of CME at [cme@northwestern.edu](mailto:cme@northwestern.edu) or 312-503-8533. Registrations will not be accepted by telephone.



Northwestern Medicine® is the shared vision that joins Northwestern Memorial HealthCare and Northwestern University Feinberg School of Medicine in a collaborative effort to transform medicine through quality healthcare, academic excellence, and scientific discovery.