



THE 42ND ANNUAL

ECHO

NORTHWESTERN 2020

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THIS LIVE ACTIVITY HAS BEEN APPROVED FOR
2.5 AMA PRA CATEGORY 1 CREDITS™

NEW! EARN 2.5 ABIM MOC II CREDITS!

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 42ND 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)[™]. 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 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.

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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
 Benjamin Freed, MD, FASE
 Issam Mikati, MD, FASE
 Sanjiv Shah, MD, FASE
 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 Dembowska, 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

Physicians
ASE Physicians
Sonographers
ASE Sonographers
Former NU Fellows
Nurses, Residents, Fellows

EARLY BIRD

☐ \$675

REGULAR RATE

☐ \$930

NOW... VIRTUAL & COMPLIMENTARY!

☐ \$450

☐ \$500

REGISTER TODAY!

HOW TO REGISTER

 **ONLINE** - Please visit www.cme.northwestern.edu

QUESTIONS

Questions regarding registration should be directed to the Office of CME at 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.