THE 42ND ANNUAL

ECHO

NORTHWESTERN 2020

NOW... VIRTUAL &
COMPLIMENTARY!

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

REGISTER TODAY!
www.cme.northwestern.edu
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 transeosophageal 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 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.
## FACULTY

### PROGRAM DIRECTORS
- **Benjamin Freed, MD, FASE**  
  Associate Professor of Medicine  
  Northwestern University  
  Feinberg School of Medicine
- **Kameswari Maganti MD, FASE**  
  Associate Professor of Medicine  
  Northwestern University  
  Feinberg School of Medicine
- **David Mehlman, MD, FASE**  
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  Northwestern University  
  Feinberg School of Medicine
- **Issam Mikati, MD, FASE**  
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- **Vera Rigolin, MD, FASE**  
  Medical Director, Echocardiography Laboratory  
  Northwestern University  
  Feinberg School of Medicine
- **James Thomas, MD, FASE**  
  Professor of Medicine  
  Director, Center for Heart Valve Disease  
  Northwestern University  
  Feinberg School of Medicine

### NORTHWESTERN UNIVERSITY  
FEINBERG SCHOOL OF MEDICINE FACULTY

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<thead>
<tr>
<th>Name</th>
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<th>Institution</th>
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<tbody>
<tr>
<td>Robert Bonow, MD, MS</td>
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<td>Charles Davidson, MD</td>
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<td>Sanjiv Shah, MD, FASE</td>
<td>Stone Professor of Medicine, Director of Research, Bluhm Cardiovascular Institute Director, Northwestern HFpEF Program Division of Cardiology Department of Medicine Director, Institute for Augmented Intelligence in Medicine – Center for Deep Phenotyping and Precision Therapeutics</td>
<td>Northwestern University Feinberg School of Medicine</td>
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### NORTHWESTERN MEDICINE STAFF

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<tr>
<td>Robert Silverberg, MD</td>
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<td>Jane Wilcox, MD, MSc</td>
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<td>Clyde Yancy, MD, MSc</td>
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<td>Allison Zielinski, MD</td>
<td>Health System Clinical</td>
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<td>Assistant Professor of Pediatrics-Cardiology Director, Adult Congenital Heart Disease</td>
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<td>Micah Elmer, MD</td>
<td>Health System Clinician</td>
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| Lisa Forbess, MD      | Associate Professor of Pediatrics (Cardiology) and Medicine (Cardiology)  
  Lurie Children’s Hospital  
  Northwestern University  
  Feinberg School of Medicine | |

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AGENDA

SATURDAY, NOVEMBER 7, 2020

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

ENDURING ON DEMAND LECTURES

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 Zelinski, MD

HOW TO SESSIONS
Strain How-to
3D How-to
Keith Collins, MS, RDCS, FASE
Milica Marion, RDCS
THE 42nd ANNUAL
ECHO
NORTHWESTERN 2020

REGISTRATION FEE
Physicians
$675
$930
ASE Physicians
$540
$740
Sonographers
$550
$745
ASE Sonographers
$440
$595
Former NU Fellows
$450
$500
Nurses, Residents, Fellows
$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.