



THE 44TH ANNUAL

ECHO

NORTHWESTERN 2022

NEW AND EXCITING OFFERINGS:

Hands on training for 3D & Strain

Structural Heart Disease

Diastology

COVID in the Heart

Cardio Oncology

#NMEcho is back **IN-PERSON** this year!

SEPTEMBER 10-11, 2022

HYATT CENTRIC CHICAGO MAGNIFICENT MILE

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

and offering MOC!

SPONSORED BY

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

REGISTER TODAY!

www.cme.northwestern.edu





THE 44TH ANNUAL **ECHO** NORTHWESTERN 2022

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

The following aspects of echocardiography will be covered:

- Echo in Cardio-Oncology
- Diastology
- Pericardial disease
- And many more...

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. Explain the role of echo in the treatment of heart failure
2. Explore the critical role of echo in the management of patients undergoing cancer therapy
3. Discuss the use of echo in cardio-oncology patients
4. Discover how to correctly acquire strain images and how to use this data to assess cardiac function in various pathological states
5. Discover how to correctly acquire and optimize 3D images and how to incorporate into clinical practice
6. Evaluate the role of echo in the diagnosis and treatment of the clinical entities such a valvular heart disease, heart failure and common miscellaneous topics using a case-based approach
7. Review the role of echo in surgical and percutaneous treatments of aortic stenosis, mitral regurgitation and tricuspid regurgitation
8. Assess patients with valvular disorders using the most recent 2020 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

9. Describe the methodology to assess diastolic function using the ASE diastology guidelines
10. Assess the uses of echo contrast agents (imaging enhancing agents) and how to incorporate the use of agents into a busy echo lab
11. Recognize the basics of echocardiographic assessment of patients with common congenital heart lesions
12. Appreciate the role of echo in the diagnosis and management of pregnant women with cardiovascular disease
13. Appreciate the use of echo in the COVID era
14. Assess the use of echo in pericardial diseases

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.

CONFERENCE LOCATION

HYATT CENTRIC CHICAGO MAGNIFICENT MILE
633 North St Clair Street, Chicago, IL 60611
Directions and parking information are available at www.hyatt.com/en-US/hotel/illinois/hyatt-centric-chicago-magnificent-mile/chimm

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 13 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of the their participation in the activity.

MOC POINTS

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 13 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification

(MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

SPECIAL NEEDS

The Northwestern University Feinberg School of Medicine intends to comply fully with the legal requirements of the Americans with Disabilities Act. If any participant of this conference needs accommodation please indicate those needs on the registration form or submit written requests to cvconferences@northwestern.edu at least two weeks prior to the conference date.

FACULTY DISCLOSURE

The Northwestern University Feinberg School of Medicine 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.

ADDITIONAL INFORMATION

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



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
Professor of Medicine
Northwestern University
Feinberg School of Medicine

Issam Mikati, MD, FASE
Professor of Medicine
Northwestern University
Feinberg School of Medicine

Vera Rigolin, MD, FASE
Professor of Medicine
Medical Director,
Echocardiography Laboratory
Associate Medical Director,
Program for Women's
Cardiovascular Health
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

Nausheen Akhter, MD, FASE
Associate Professor of Medicine
Northwestern University
Feinberg School of Medicine

Faraz Ahmad, MD, MS
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Mohamed Al-Kazaz, MD
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Gloria Ayuba, MD
Advanced Cardiovascular
Imaging Fellow
Northwestern University
Feinberg School of Medicine

Laura Davidson, MD, MS
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Micah Eimer, MD
Health System Clinician
of Medicine
Northwestern University
Feinberg School of Medicine

R. Andrew de Freitas, MD, FASE
Assistant Professor of Pediatrics
Northwestern University
Feinberg School of Medicine

James Flaherty, MD
Associate Professor of Medicine
Northwestern University
Feinberg School of Medicine

Priya Mehta-Freaney, MD
Advanced Cardiovascular
Research
Northwestern University
Feinberg School of Medicine

Bradley Knight, MD
Chester C. and Deborah M.
Cooley Distinguished Professor
of Cardiology
Professor of Medicine and
Medical Education
Northwestern University
Feinberg School of Medicine

Akhil Narang, MD, FASE
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Jyothy Puthumana, MD, FASE
Associate Professor of Medicine
Northwestern University
Feinberg School of Medicine

Taimur Safder, MD
Advanced Cardiovascular
Imaging Fellow
Northwestern University
Feinberg School of Medicine

Marc Andrew Sala, MD
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Sanjiv Shah, MD, FASE
Director, Institute for Augmented
Intelligence in Medicine
Center for Deep Phenotyping
and Precision Therapeutics
Northwestern University
Feinberg School of Medicine

Korosh Sharain, MD
Health System Clinician
of Medicine
Northwestern University
Feinberg School of Medicine

Ranya Sweis, MD
Associate Professor of Medicine
Northwestern University
Feinberg School of Medicine

Patricia Vassallo, MD, FASE
Assistant Professor of Medicine
Northwestern University
Feinberg School of Medicine

Clyde Yancy, MD, MSc
Vice Dean for Diversity and
Inclusion
Chief of Cardiology in the
Department of Medicine
Magerstadt Professor
Professor of Medicine
(Cardiology) and Medical Social
Sciences
Northwestern University
Feinberg School of Medicine

NORTHWESTERN MEDICINE STAFF

Kara Alexander, RDCS

Asra Azizuddin, RDCS, FASE

Keith Collins, RDCS, FASE

**Brian Fey, BA, RDCS (AE/PE),
ACS, FASE**

**Madeline Jankowski, BS,
RDCS, ACS, FASE**

Bonnie Kane, RDCS

Karen Laguna, RDCS

Milica Marion, RDCS

Kathy Nguyen, RDCS

Richard Norton, RDCS

Juliet Ryan, BS, RDCS



SATURDAY, SEPTEMBER 10, 2022

8:00 am **REGISTRATION & BREAKFAST**

SESSION I: NATIVE VALVE DISEASE

MODERATOR:
Vera Rigolin, MD, FASE

9:00 am **A Tale of Two Valves: Functional vs Degenerative MR**
Vera Rigolin, MD, FASE

9:20 am **Echo Quantification of Valvular Regurgitation**
James Thomas, MD, FASE

9:40 am **Imaging Essentials for Aortic Stenosis**
Issam Mikati, MD, FASE

10:00 am **BREAK & EXHIBITS**

SESSION II: STRUCTURAL HEART DISEASE

MODERATOR:
James Thomas, MD, FASE

10:30 am **Imaging for Percutaneous Mitral Valve Procedures**
Akhil Narang, MD, FASE

10:50 am **Imaging for Percutaneous Tricuspid Valve Procedures**
Jyothy Puthumana, MD, FASE

11:10 am **CASE PRESENTATIONS WITH PANEL DISCUSSION**

CASE PRESENTATIONS:
Advanced Cardiac Imaging Fellows

PANEL:
Laura Davidson, MD, MS
Jim Flaherty, MD
Ranya Sweis, MD
Akhil Narang, MD, FASE
Jyothy Puthumana, MD, FASE
Kameswari Maganti, MD, FASE

12:30 pm **LUNCH & EXHIBITS**
Lunch Lecture:
David Mehlman, MD, FASE

SESSION III: BREAK-OUT SESSIONS

1:30 pm **1. HANDS-ON SCANNING**
Richard Norton, RDCS
Kara Alexander, RDCS
Keith Collins, RDCS, FASE
Milica Marion, RDCS
Brian Fey, RDCS, FASE
Madeline Jankowski, RDCS, FASE
Jyothy Puthumana, MD, FASE
Akhil Narang, MD, FASE

2. SHD/VALVULAR HEART DISEASE ECHO INTERPRETATION: CASE SERIES 1

Advanced Imaging Fellows:
Vera Rigolin, MD, FASE
Kameswari Maganti, MD, FASE

2:45 pm **BREAK**

3:00 pm **3. HANDS-ON SCANNING**
Richard Norton, RDCS
Kara Alexander, RDCS
Keith Collins, RDCS, FASE
Milica Marion, RDCS
Brian Fey, RDCS, FASE
Madeline Jankowski, RDCS, FASE
Jyothy Puthumana, MD, FASE
Akhil Narang, MD, FASE

4. SHD/VALVULAR HEART DISEASE ECHO INTERPRETATION: CASE SERIES 2

Advanced Imaging Fellows:
Vera Rigolin, MD, FASE
Kameswari Maganti, MD, FASE

4:00 pm **SATURDAY ADJOURN**

SUNDAY, SEPTEMBER 11, 2022

7:00 am **REGISTRATION & BREAKFAST**

SESSION IV: HEART FAILURE

MODERATOR:
Issam Mikati, MD, FASE

8:00 am **Guideline Directed Imaging in Heart Failure**
Clyde Yancy, MD, MSc

8:20 am **Diastology is not Always Indeterminate**
Sanjiv Shah, MD, FASE

8:40 am **Echo is the Key Test for Diagnosis and Management of Heart-failure case based examples: HFrEF, HFpEF, HFrec EF**
Gloria Ayuba, MD
Taimur Safder, MD

9:00 am **Contrast Echo - Seeing is Believing!**
Patricia Vassallo, MD, FASE

9:20 am **The ABCs of Cardiotoxic Agents and How Can Echo Help with Early Detection and Patient Management**
Nausheen Akhter, MD, FASE

9:40 am **Audience Q&A and Panel Discussion**

10:00 am **BREAK**

SESSION V: CASE REVIEW SESSION

MODERATORS:
David Mehlman, MD, FASE
Brian Fey, RDCS, FASE

10:30 am **Congenital**
Andrew de Freitas, MD
Asra Azizuddin, RDCS, FASE

11:00 am **Pericardial Disease**
Mohammed Al-Kazaz, MD
Karen Laguna, RDCS
Kathy Nguyen, RDCS

11:30 am **Diastology**
Sanjiv Shah, MD, FASE
Juliet Ryan, RDCS
Korosh Sharain, MD

12:00 pm **POCUS**
Akhil Narang, MD
Madeline Jankowski, RDCS
Kameswari Maganti, MD, FASE

12:30 pm **LUNCH**

SESSION IV: MORE LEARNING OPPORTUNITIES

MODERATORS:
Ben Freed, MD, FASE
Kameswari Maganti, MD, FASE

1:30 pm **CASE PRESENTATIONS WITH PANEL DISCUSSION**

EP ICE Cases
Bradley Knight, MD

Artificial Intelligence
James Thomas, MD, FASE

HCM
Bonnie Kane, RDCS, FASE

Cardio-obstetrics
Priya Freaney, MD

Stress ECHO
Micah Eimer, MD

3:00 pm **COVID**
Marc Sala, MD
Kameswari Maganti, MD, FASE

3:30 pm **Echo Jeopardy**
Madeline Jankowski, RDCS, FASE

4:00 pm **CONFERENCE ADJOURN**



REGISTER TODAY!

REGISTRATION FEE

	EARLY BIRD Ends 8/10/22	REGULAR RATE
Physicians	☐ \$300	☐ \$450
ASE Physicians	☐ \$240	☐ \$360
Sonographers	☐ \$200	☐ \$300
ASE Sonographers	☐ \$160	☐ \$240
RN, APN, Fellow, Resident, Student, Other HCP's & Allied Health	☐ \$160	☐ \$240

HOW TO REGISTER

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

Registration will close Thursday,
September 8, 2022

QUESTIONS

Questions regarding registration should be
directed to cvconferences@northwestern.edu.
Registrations will not be accepted by telephone.

CANCELTION POLICY

Cancellations must be made in writing to the
Office of Continuing Medical Education. The paid
registration fee, minus \$50, will be refunded if
cancellation is received by **August 27, 2022**.
No refunds will be issued thereafter.

www.cme.northwestern.edu

2022

MARK YOUR CALENDAR!

4TH ANNUAL

Heart Team Summit

October 21-22, 2022

Four Seasons St. Louis

St. Louis, MO | Hybrid Format

18TH ANNUAL

Heart Failure Symposium

December 2-3 2022

Radisson Blu Aqua Hotel

Chicago, IL | Hybrid Format

For more information please visit cvconferences.com
or contact us at cvconferences@northwestern.edu

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.

Northwestern
Medicine®