



Icahn
School of
Medicine at
Mount
Sinai

16th Annual ECHO New York

October 8-10, 2016

COURSE DIRECTOR

Farooq A. Chaudhry, MD, FACP, FACC, FASE, FAHA

CO-DIRECTOR

Jagat Narula, MD, PhD, MACC

LOCATION

Crowne Plaza Times Square
1605 Broadway
(between 48 & 49th Streets)
New York, NY

www.ichn.mssm.edu/cme/courses

GENERAL INFORMATION

PROGRAM DESCRIPTION

Basic echocardiography will be reviewed and the latest advances in echocardiography will be demonstrated through lecture, live demonstrations and case studies. Participants will be exposed to principles of imaging, exercise and pharmacological stress, contrast, harmonics, Doppler tissue imaging, strain, strain rate, cardiac resynchronization and 2D, 3D and 4D transesophageal echocardiography, valvular, structural heart disease, coronary, myocardial and congenital heart disease. Case studies will be interspersed throughout each lecture to emphasize the importance and clinical utility of each technique discussed.

EDUCATIONAL OBJECTIVES

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

- Describe the basic physics of ultrasound and Doppler echocardiography.
- Identify the basic role of echocardiography to evaluate valvular and myocardial diseases, with an emphasis on newer imaging modalities.
- Evaluate the role of echocardiography in patients presenting with stroke for cardio version and for evaluation of patients with endocarditis, tumors and abscesses.
- Apply the principles of imaging techniques for stress echocardiography including latest data on risk stratification and prognosis in patients with ischemic and non-ischemic cardiomyopathy.
- Recognize the basic principles of contrast echocardiography including interaction of contrast with ultrasound to assess the role of contrast in LV opacification, Doppler signal enhancement, evaluation of masses and myocardial perfusion.
- Assess the role of echocardiography and diagnosing the assessment of congenital heart disease.
- Use the latest literature regarding strain and strain rate imaging to identify patients who respond to cardiac resynchronization and use echocardiography optimization in patients undergoing resynchronization.
- Evaluate the role of echo in structural heart disease.
- Evaluate the current developments and clinical indications for 3D and 4D Echo in clinical practice.
- Examine the latest imaging techniques in qualification of left ventricular wall motion.
- Prepare echocardiography physicians for the Echo Boards.

TARGET AUDIENCE

Cardiologists, Internal Medicine Physicians, Echocardiography Technicians, Sonographers and Nurses.

ACCREDITATION

The Icahn School of Medicine at Mount Sinai is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Icahn School of Medicine at Mount Sinai designates this live educational activity for a maximum of 20.00 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

VERIFICATION OF ATTENDANCE

Verification of attendance will be provided to all professionals.

SPECIAL NEEDS

The Icahn School of Medicine at Mount Sinai is in full compliance with provisions of the Americans with Disabilities Act (ADA) and is accessible for individuals with special needs. If you would like to attend this conference and require any special needs or accommodations please contact the Page and William Black Post-Graduate School of Medicine at 212-731-7950.

FACULTY DISCLOSURE

It is the policy of Icahn School of Medicine at Mount Sinai to ensure objectivity, balance, independence, transparency, and scientific rigor in all CME-sponsored educational activities. All faculty participating in the planning or implementation of a sponsored activity are expected to disclose to the audience any relevant financial relationships and to assist in resolving any conflict of interest that may arise from the relationship. Presenters must also make a meaningful disclosure to the audience of their discussions of unlabeled or unapproved drugs or devices. This information will be available as part of the course material.

This product [service] is not affiliated with or endorsed by Inteleos[™]. ARDMS[®] and APCA[™] are part of the Inteleos[™] family of certification councils.

REGISTRATION INFORMATION

Fees postmarked on or before September 9, 2016

\$675 Practicing Physicians

\$475 Residents, Fellows, Sonographers, Nurses, Allied Health Professionals, Physician Assistants and Mount Sinai Health System

Fees postmarked after September 9, 2016

\$725 Practicing Physicians

\$525 Residents, Fellows, Sonographers, Nurses, Allied Health Professionals, Physician Assistants and Mount Sinai Health System

MEETING LOCATION

Crowne Plaza Times Square
1605 Broadway (between 48 & 49th Streets)
New York, NY 10019

A block of rooms is available for symposium participants and can be reserved by calling the hotel directly at 1-888-233-9527 (domestic) or 1-843-760-5839 (international), and stating that you are with the **“Echo New York 2016 Conference.”**

You may also book your room reservations directly online at <https://resweb.passkey.com/go/2016ECHO>.

A special group rate of \$379 single and \$399 double per night plus tax, will be held until September 16th, on a space available basis. Please refer to all hotel policies at time of booking, check-in time is 4:00pm and check-out is 12:00 noon.

PROGRAM SCHEDULE

DAY 1 - SATURDAY, OCTOBER 8, 2016

- 7:30** Registration and Continental Breakfast
7:55 Welcome and Opening Remarks
8:00 Does Echocardiography Add to the Cost of Healthcare?

*Farooq A. Chaudhry, MD
Jagat Narula, MD*

ULTRASOUND PHYSICS

Moderators: Farooq A. Chaudhry, MD and Partho P. Sengupta, MD

- 8:30** Basics of Ultrasound Physics
9:00 Basics of Doppler Physics

*Muhammed Saric, PhD
Muhammed Saric, PhD*

VALVULAR DISEASE, LV AND RV FUNCTION, HEMODYNAMICS

Moderators: Farooq A. Chaudhry, MD and Partho P. Sengupta, MD

- 9:30** Valvular Regurgitations: Pearls and Pitfalls
10:00 Valvular Stenosis: Pearls and Pitfalls
10:30 Refreshment Break and Exhibits
11:00 Evaluation of the Right Ventricle: New Guidelines
11:30 Common Echo Artifacts: Mechanisms and Diagnosis
12:00 Hemodynamics by Echocardiography: Is Catheterization Necessary?
12:30 Lunch (Not Included)

*Tatyana A. Danilov, MD
Susan Hecht, MD*

*Steve L. Liao, MD
Muhammed Saric, PhD
Dennis Finkelstein, MD*

DIASTOLOGY; CONSTRICTION VS. RESTRICTION; CHAMBER QUANTIFICATION

Moderators: Farooq A. Chaudhry, MD and Eric H. Stern, MD

- 1:30** Diastology: Simplified; New Guidelines
2:00 Role of Echocardiography in Acute Myocardial Infarction
2:30 Diseases of the Pericardium and Restrictive Cardiomyopathy
3:00 Refreshment Break and Exhibits
3:30 Chamber Quantification: New Guidelines

*Partho P. Sengupta, MD
Eyal Herzog, MD
Partho P. Sengupta, MD*

Edgar Argulian, MD

TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE); CARDIAC MASSES; CASE STUDIES

Moderators: Jeffrey J. Silbiger, MD and Partho P. Sengupta, MD

- 4:00** Transesophageal Echocardiography
4:30 Role of TEE in Cardioversion, Stroke and Aortic Disease
5:00 Endocarditis and Cardiac Masses
5:30 "My Most Fascinating Case"

*Alexander J. Mitnacht, MD
Susan Hecht, MD
Edgar Argulian, MD
Hemant Chaturvedi, MD
Eyal Herzog, MD
Partho P. Sengupta, MD
Jeffrey J. Silbiger, MD*

6:00 Adjourn

DAY 2 - SUNDAY, OCTOBER 9, 2016

- 7:30** Registration and Continental Breakfast

KEYNOTE ADDRESS

- 8:00** Future of Cardiovascular Imaging in Promoting Health

Valentin Fuster, MD

STRESS ECHOCARDIOGRAPHY, CARDIO-ONCOLOGY AND HEART FAILURE; CASE STUDIES

Moderators: Farooq A. Chaudhry, MD and Lori Croft, MD

- 8:30** Stress Echocardiography: Basic Principles
9:00 Echo in Cardio-oncology
9:30 Stress Echocardiography for Risk Stratification and Prognosis in Patients with Coronary Artery Disease

*Farooq A. Chaudhry, MD
Gagan Sahni, MD
Farooq A. Chaudhry, MD*

PROGRAM SCHEDULE

10:00 Reversible Left Ventricular Dysfunction, Diagnosis, Risk Stratification and Prognosis

Farooq A. Chaudhry, MD

10:30 Refreshment Break and Exhibits

STRAIN, CONTRAST AND PROSTHETIC VALVES

Moderators: Farooq A. Chaudhry, MD and Lori Croft, MD

11:00 Stress Echo: Beyond Coronary Artery Disease

Farooq A. Chaudhry, MD

11:30 Strain Simplified with Clinical Case Studies

Partho P. Sengupta, MD

12:00 Synopsis of Contrast Echo

Farooq A. Chaudhry, MD

12:30 Evaluation of Prosthetic Valves

Asaf Rabinovitz, MD

1:00 Stress Echo: Case Studies

Farooq A. Chaudhry, MD

Edgar Argulian, MD

Bette Kim, MD

1:30 Adjourn for Luncheon (Included)

VALVULAR HEART DISEASE; STRUCTURAL HEART DISEASE; HYPERTROPHIC CARDIOMYOPATHY; 3D ECHO

Moderators: Farooq A. Chaudhry, MD and Partho P. Sengupta, MD

2:30 TAVR: Current State of the Art

Samin Sharma, MD

3:00 New Valvular Guidelines

Jacqueline Danik, MD

3:30 Mitral Clip: Current State of the Art

Samin Sharma, MD

4:00 Refreshment Break and Exhibits

4:30 Role of Echo in EP Lab

Vivek Reddy, MD

5:00 Echo for TAVR and Mitral Clip

Partho P. Sengupta, MD

5:30 Current Clinical Applications of 3D/4D Echocardiography with Case Studies: Does It Make A Difference?

Tatyana A. Danilov, MD

6:00 Adjourn

DAY 3 - MONDAY, OCTOBER 10, 2016

7:30 Registration and Continental Breakfast

CONGENITAL HEART DISEASE

Moderators: Shubhika Srivastava, MD and Barry Love, MD

8:00 Basic Congenital Heart Disease: Case Based

Barry Love, MD

8:30 Complex Congenital Heart Disease: Case Based

Shubhika Srivastava, MD

9:00 Structural Heart Disease: Role of Echo (with Case Studies)

Barry Love, MD

9:30 Athlete's Heart, Left Ventricular Hypertrophy and Hypertrophic Cardiomyopathy

Mark V. Sherid, MD

10:00 Refreshment Break and Exhibits

WORKSHOPS WITH LIVE DEMONSTRATION

10:30 *Moderators: Lori Croft, MD, Martin Goldman, MD, Samantha Buckley, RDMS and Robin Goldberg, RDMS*
Comprehensive Transthoracic Echocardiography Exam with Emphasis on ICAEL, Live Demonstration

11:00 *Moderators: Farooq A. Chaudhry, MD, Danny Pudupud and Stephanie Fabian, RDMS*
Contrast Echocardiography: Live Demonstration of Contrast Echo with Emphasis on Knobology and Optimizing Imaging Quality

11:30 *Moderators: Farooq A. Chaudhry, MD and Partho P. Sengupta, MD*
How to Obtain and Interpret Strain Data, Live Demonstration

12:00 *Moderators: Partho P. Sengupta, MD and Tatyana A. Danilov, MD*
3D and 4D Echo Image Acquisition, Cropping and Display: Case Studies

12:30 Closing Remarks

Conference Adjourned

FACULTY

COURSE DIRECTOR

Farooq A. Chaudhry, MD, FACP, FACC, FASE, FAHA

Director, Echocardiography Laboratories
Associate Director, Mount Sinai Heart Network
Professor of Medicine
Icahn School of Medicine at Mount Sinai
Zena and Michael A. Wiener Cardiovascular Institute and
Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
The Mount Sinai Hospital
New York, NY

CO-DIRECTOR

Jagat Narula, MD, PhD, MACC, FRCP

Phillip J. and Harriet L. Goodhart Chair in Cardiology
Professor of Medicine and Radiology,
Icahn School of Medicine at Mount Sinai
Chief of Cardiology, Mount Sinai St. Luke's and Mount Sinai West
Hospitals of Mount Sinai
Associate Dean, Arnhold Institute for Global Health at Mount Sinai
Icahn School of Medicine at Mount Sinai
Zena and Michael A. Wiener Cardiovascular Institute and
Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
The Mount Sinai Hospital
New York, NY

MOUNT SINAI HEALTH SYSTEM FACULTY The Mount Sinai Hospital

Lori Croft, MD

Associate Professor of Medicine
Director, Nuclear Medicine
Icahn School of Medicine at Mount Sinai
Attending, Cardiology
The Mount Sinai Hospital
New York, NY

Valentin Fuster, MD, PhD

Physician-in-Chief, Mount Sinai Hospital
Director, Mount Sinai Heart
Director of the Zena and Michael A. Wiener Cardiovascular Institute and
The Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
Richard Gorlin, MD/Heart Research Foundation
Professor of Cardiology
Icahn School of Medicine at Mount Sinai
The Mount Sinai Hospital
New York, NY

Steve L. Liao, MD, FACC

Assistant Professor of Medicine and Radiology
Icahn School of Medicine at Mount Sinai
Attending, Cardiology
The Mount Sinai Hospital
New York, NY

Barry Love, MD

Assistant Professor of Pediatrics and Medicine
Icahn School of Medicine at Mount Sinai
Director of Congenital Cardiac Catheterization Laboratories
The Mount Sinai Hospital
New York, NY

Alexander Mittnacht, MD

Professor of Anesthesiology
Icahn School of Medicine at Mount Sinai
Director, Pediatric Cardiac Anesthesia
The Mount Sinai Hospital
New York, NY

Asaf Rabinovitz, MD

Attending, Cardiology
Zena and Michael A. Wiener Cardiovascular Institute and
Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
The Mount Sinai Hospital
New York, NY

Vivek Reddy, MD

Director, Cardiac Electrophysiology
The Mount Sinai Hospital
Helmsley Trust Professor of Medicine
Icahn School of Medicine at Mount Sinai
New York, NY

Gagan Sahni, MD, FACC, FACP

Director, Cardiology Consult Services
Director, Cardio-oncology
Zena and Michael A. Wiener Cardiovascular Institute &
Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
The Mount Sinai Hospital
New York, NY

Partho P. Sengupta, MD, DM, FASE, FACC

Associate Professor of Medicine
Icahn School of Medicine at Mount Sinai
Director of Interventional Echocardiography
Director of Cardiac Ultrasound Research and Core Laboratory
Zena and Michael A. Wiener Cardiovascular Institute and
Marie-Josée and Henry R. Kravis Center for Cardiovascular Health
The Mount Sinai Hospital
New York, NY

Samin Sharma, MD, FSCAI, FACC

Director, Clinical & Interventional Cardiology
President, Mount Sinai Heart Network
Zena & Michael A. Wiener Professor of Medicine
Icahn School of Medicine at Mount Sinai
The Mount Sinai Hospital
New York, NY

Shubhika Srivastava, MD, FAAP, FACC

Associate Professor of Pediatrics
Icahn School of Medicine at Mount Sinai
Director, Pediatric and Fetal Echocardiography Lab
The Mount Sinai Hospital
New York, NY

Eric H. Stern, MD, FACP, FACC

Associate Professor of Medicine
Icahn School of Medicine at Mount Sinai
Associate Program Director, Cardiology Fellowship Training Programs
The Mount Sinai Hospital
New York, NY

FACULTY

Mount Sinai Beth Israel

Tatyana A. Danilov MD FACC

Assistant Professor of Medicine
Icahn School of Medicine at Mount Sinai
Interim Director Echocardiography
Medical Director Attending Cardiology Service
Mount Sinai Beth Israel
New York, NY

Stephanie Fabian, RCS

Manager, Echo Lab
Mount Sinai Beth Israel
New York, NY

Dennis Finkelstein, MD, FACC, FASE, RPVI

Associate Professor of Medicine
Icahn School of Medicine at Mount Sinai
Deputy Chief, Department of Cardiology
Director, Ambulatory Cardiology
Director, Cardiovascular Diseases Fellowship
Mount Sinai Beth Israel
New York, NY

Susan Hecht, MD, FASE

Associate Professor of Clinical Medicine
Icahn School of Medicine at Mount Sinai
Associate Director, Echo Lab
Mount Sinai Beth Israel
New York, NY

Mount Sinai West

Bette Kim, MD

Assistant Clinical Professor of Medicine
Icahn School of Medicine at Mount Sinai
Director, Echocardiography Laboratory
Program Director, Hypertrophic Cardiomyopathy Program
Mount Sinai West
New York, NY

GUEST FACULTY

Dr. Hemant Chaturvedi, MBBS, FACC

Coordinator, Heart Failure Clinic
EHCC, Jaipur, India

Muhamed Saric, MD, PhD, FACC, FASE

Director, Echocardiography
NYU Langone Medical Center
New York, NY

Mark V. Sherid, MD

Attending, Cardiology
NYU Langone Medical Center
New York, NY

**For Conference Information, contact
Jacqueline Wilkins at (212) 241-6846
For Registration Information, contact
cme@mssm.edu or call
Annette Roman at (212) 731-7950**

Mount Sinai Queens

Jeffrey J. Silbiger, MD, FACC, FASE

Associate Professor of Medicine
Icahn School of Medicine at Mount Sinai
Director, Echocardiography Laboratory
Mount Sinai Hospital of Queens
Queens, NY

Mount Sinai St. Luke's

Edgar Argulian, MD, MPH, FACC, FASE

Assistant Professor of Medicine
Mount Sinai Heart
Icahn School of Medicine at Mount Sinai
Mount Sinai St. Luke's
New York, NY

Jacqueline Danik, MD, DrPH

Director, Heart Valve Program
Associate Director of Cardiovascular Research
Icahn School of Medicine at Mount Sinai
Mount Sinai St. Luke's
New York, NY

Eyal Herzog, MD

Associate Professor of Medicine
Icahn School of Medicine at Mount Sinai
Director, Cardiac Care Unit
Director, Echocardiography Laboratories
Mount Sinai St. Luke's
New York, NY

Danny Pudup, RDCS, RVT

Office Manager, MSSLR Echo Lab
Mount Sinai St. Luke's
New York, NY

TECHNICAL STAFF

Gicylle Almonte, RDCS
Vangies Clark, RDCS
Samantha Buckley, BS, RDCS, RDMS
Lisa Clark, RDCS
Ann Dobres, RN
Zoya Galibov, RN
Robin Goldberg, BA, RDCS
Soonjung Ka, RDCS
Anna Katznelson, RDCS
Nigie Lantin, RN
Yuhong Luo, RDCS
Melissa Miller, RDCS
Fatou Nzuka, RDCS
Phoebe Perkins, RDCS
Suzanne Schiller, RDCS
Valarie Skates, RDCS
Christine Tajas, RDCS
Adeena Traube, RDMS, RDCS
Michelle Wallace, RDCS
Tricia Widhalm, RDCS
Cynthia Wilde, RN
Frances Williams, RN
Marilyn Witte Goldbard, RN
Meichun Yang, RDCS
Lilliana Zappino, RDCS

PROGRAM COORDINATOR

Jacqueline Wilkins

REGISTRATION FORM

16th Annual ECHO NEW YORK

OCTOBER 8-10, 2016

Crowne Plaza Times Square

REGISTRATION FEES

- ☐ Physicians
☐ Residents*, Fellows*, Sonographers, Nurses and Allied Health Professionals, Physician Assistants and Mount Sinai Health System

Postmarked on or before
September 9, 2016

\$675

\$475

Postmarked after
September 9, 2016

\$725

\$525

**Registration Form must be accompanied by a letter of verification from Department Chairman or Chief of Service or copy of badge identification.*

LAST NAME FIRST NAME DEGREE

ADDRESS

CITY STATE ZIP

TELEPHONE SPECIALTY

INSTITUTION/AFFILIATION

EMAIL

TWO WAYS TO REGISTER

- ☐ On-Line at www.ica hn.mssm.edu/cme/courses

- ☐ Mail this form with your check to:

Icahn School of Medicine at Mount Sinai, The Page and William Black Post-Graduate School
One Gustave L. Levy Place, Box 1193 • New York, NY 10029

- ☐ Enclosed is my check for \$_____ made payable to
The Page and William Black Post-Graduate School of Medicine

FOR ONSITE REGISTRATION ONLY

For security purposes, credit card payment cannot be accepted by mail or fax.
Please visit www.ica hn.mssm.edu/cme/courses to register and pay by credit card.

Bill my credit card \$_____ ☐ Mastercard ☐ Visa ☐ American Express

Card Number_____ Exp Date_____ CCV#_____

Cardholder's Name_____

CANCELLATION POLICY: A 30% administrative fee will be deducted from all refunds/cancellations issued. All refund and cancellation requests must be emailed to the CME Office at cme@mssm.edu by Monday, September 19, 2016. No refunds will be made after this date or for "no-shows."

16th Annual **ECHO NEW YORK**



Icahn
School of
Medicine at
Mount
Sinai

October 8-10, 2016

Crowne Plaza Times Square
1605 Broadway
(between 48 & 49th Streets)
New York, NY 10019

www.icahn.mssm.edu/cme/courses

Icahn School of Medicine at Mount Sinai
One Gustave L. Levy Place
Box 1193
New York, NY 10029

Non-Profit Org.
US Postage
Paid
White Plains, NY
Permit No. 7033