

**ELEVENTH ANNUAL**

# ***ECHO New York<sup>sm</sup> '11***

**SATURDAY, OCTOBER 22 – MONDAY, OCTOBER 24, 2011**

**Course Director**

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

**Crowne Plaza Times Square**

1605 Broadway, New York, NY

*Comprehensive Review of Transthoracic,  
Transesophageal, Stress Echocardiography,  
3D and 4D Echo, Contrast, Congenital,  
Cardiac Resynchronization, Strain,  
Strain Rate Velocity Vector Imaging,  
Newer Techniques, Applications with  
Case Studies and Workshops*

**HIGHLY  
RATED FOR  
ECHO BOARD  
REVIEW**

*Sponsored By:  
St. Luke's and Roosevelt Hospitals  
Division of Cardiology*

**In Cooperation With:**

**CME Credit Certified By:  
Beth Israel Medical Center and  
St. Luke's and Roosevelt Hospitals**



**ASE** American Society of  
Echocardiography  
Heart & Circulation Ultrasound Specialists

## OBJECTIVES

- 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 transesophageal echocardiography in patients presenting with stroke for cardioversion 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 current developments and clinical indications for 3D and 4D echo in clinical practice
- Examine the latest imaging techniques in quantification of left ventricular wall motion
- Prepare Echocardiography physicians for the Echo Boards

## PROGRAM DESCRIPTION

Basic echocardiography will be reviewed and the latest advances in echocardiography will be demonstrated through lecture 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, 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.

**Preparation for Echo Boards:** At the end of each presentation there will be at least three board orientated questions.

**Workshops:** Live demonstrations, for M-Mode, 2D, Color flow Doppler imaging, stress echocardiography, contrast echocardiography, 3D echocardiography and cardiac resynchronization will enhance your understanding of echocardiography. At each workshop, a topic will be presented in detail by the instructor on a live model. This interactive format will provide all participants (both physicians and sonographers) with the opportunity to improve their skills in obtaining data to ensure complete and correct diagnostic studies in patients coming through the echocardiography laboratory.

## ACCREDITATION STATEMENT

Beth Israel Medical Center and St. Luke's and Roosevelt Hospitals are accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## CREDIT DESIGNATION

St. Luke's and Roosevelt Hospitals designates this live activity for a maximum of 20.5 AMA PRA Category 1 Credits<sup>SM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## CONFERENCE SITE

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

A block of rooms is available for symposium participants and can be reserved by calling the hotel directly at 888-233-9527, and stating that you are with the "Echo New York Conference" or online at <https://resweb.passkey.com/go/echo2011>. Reservations require a one night deposit and are guaranteed for late arrival. Your deposit will be refunded if you notify the hotel 72 hours prior to your stated date of arrival. A special group rate of \$339.00 per night, plus taxes, single or double occupancy, will be held until October 1st on a space available basis, so please make your reservation as soon as possible. Check-in time is 3:00pm and check-out is 12:00 noon.

## TARGET AUDIENCE

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

## PREREQUISITES

A minimum of three months experience in echocardiography and knowledge of basic anatomy and physiology of the heart is required. Experience in Doppler Echo would be advantageous, but is not required. TRANSESOPHAGEAL, STRESS, CONTRAST, HARMONIC, 3D, 4D, CONGENITAL ECHO and NEWER IMAGING TECHNIQUES WILL BE EMPHASIZED.

## POLICY ON FACULTY AND PROVIDER DISCLOSURE

It is the policy of Beth Israel Medical Center & St. Luke's and Roosevelt Hospitals that faculty and providers disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). Beth Israel Medical Center & St. Luke's and Roosevelt Hospitals have established policies in place that will identify and resolve all conflicts of interest prior to this educational activity.

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# General Information

## COURSE DIRECTOR AND MODERATOR

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

Associate Professor of Medicine  
Columbia University College of Physicians and Surgeons  
Associate Chief of Cardiology  
Director of Echocardiography  
St. Luke's and Roosevelt Hospitals  
New York, NY

## FACULTY – CONTINUUM HEALTH PARTNERS, INC. – NEW YORK

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### **Sandhya K. Balaram, MD, PhD, FACS**

Assistant Professor of Clinical Surgery  
Columbia University College of Physicians and Surgeons  
Interim Chief, Division of Cardiothoracic Surgery  
St. Luke's and Roosevelt Hospitals

### **Marvin Berger, MD, FACC, FASE**

Professor of Clinical Medicine  
Albert Einstein College of Medicine  
Director, Echocardiography Laboratory  
Beth Israel Medical Center

### **Dennis Finkelstein, MD, FACC, FASE**

Assistant Professor of Medicine  
Albert Einstein College of Medicine  
Director, Ambulatory Cardiology  
Director, Cardiovascular Diseases Fellowship  
Beth Israel Medical Center

### **Susan Hecht, MD, FASE**

Associate Professor of Clinical Medicine  
Albert Einstein College of Medicine  
Associate Director, Coronary Care Unit  
Beth Israel Medical Center

### **Eyal Herzog, MD**

Associate Professor of Clinical Medicine  
Columbia University College of Physicians and Surgeons  
Director, Cardiac Care Unit  
St. Luke's and Roosevelt Hospitals

### **Bette Kim, MD**

Assistant Professor of Clinical Medicine  
Columbia University College of Physicians and Surgeons  
Attending Physician  
St. Luke's and Roosevelt Hospitals

### **Mark V. Sherrid, MD, FACC, FASE**

Professor of Clinical Medicine  
Columbia University College of Physicians and Surgeons  
Site-Director, Echocardiography Laboratory Roosevelt Division  
Program Director, Hypertrophic Cardiomyopathy Program  
St. Luke's and Roosevelt Hospitals

### **Seth Uretsky, MD**

Assistant Professor of Clinical Medicine  
Columbia University College of Physicians and Surgeons  
Director, Cardiac CT and MRI  
St. Luke's and Roosevelt Hospitals

### **Siu-Sun Yao, MD, FACC, FASE**

Associate Professor of Clinical Medicine  
Columbia University College of Physicians and Surgeons  
Medical Director, Division of Cardiology Faculty Practice  
Co-Director, Nuclear Cardiology and Cardiac Stress Testing  
St. Luke's and Roosevelt Hospitals

## TECHNICAL STAFF

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Deborah Cantales, RDCS  
Wanda Castillo, RDCS  
Manuel Chut, RN  
Jennifer Elkordy, RN  
Svetlana Gaysinskaya, RCS  
Debbie Kim, RDCS  
Elzbieta Kiwior, RDCS  
Rosanne Kleint, RN  
Ewa Korzeniecki, RDCS

Sonal Patel, RDCS  
Danny Pudpud, RDCS, RVT  
Janet Sheikhan, RN  
Corazon Tungol, RN  
Nataliya Vasquez, RDCS  
Karina Vaysfeld  
Lauren Vicinanza, RDCS  
Olga Vorona, RDCS, RVT

## GUEST FACULTY

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### **Sripal Bangalore, MD, MHA, FACC, FSCAI**

Assistant Professor of Medicine  
New York University School of Medicine  
Director of Research, Cardiac Catheterization Laboratory  
The Leon H. Charney Division of Cardiology  
New York, NY

### **Leo Lopez, MD, FACC, FAAP, FASE**

Associate Professor of Clinical Pediatrics  
Albert Einstein College of Medicine  
Director, Pediatric Cardiac Noninvasive Imaging  
Children's Hospital at Montefiore  
Bronx, NY

### **Victor Mor-Avi, PhD, FASE**

Professor  
Section of Cardiology, Department of Medicine  
Director, Cardiac Imaging Research  
University of Chicago  
Chicago, IL

### **Michael H. Picard, MD**

Professor of Medicine  
Harvard Medical School  
Director, Clinical Echocardiography  
Massachusetts General Hospital  
Boston, MA

### **Muhamed Saric, MD, PhD, FACC, FASE**

Associate Professor of Medicine  
New York University School of Medicine  
Director, Echocardiography  
Director, Operations, Noninvasive Cardiology  
NYU Langone Medical Center  
New York, NY

## PROGRAM COORDINATOR

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Jacqueline Wilkins

*Faculty*

**DAY 1 SATURDAY, OCTOBER 22, 2011**

7:30 Registration and Continental Breakfast

7:55 Welcome and Opening Remarks  
*Farooq A. Chaudhry, MD***PHYSICS**8:00 Review of Ultrasound and Doppler Physics  
*Muhammed Saric, MD***VALVULAR DISEASE; LV AND RV FUNCTION; HEMODYNAMICS; HYPERTROPHIC CARDIOMYOPATHY**9:00 Valvular Regurgitations: Evaluation, Limitations and Pitfalls  
*Mark V. Sherrid, MD*9:30 Common Echo Artifacts: Mechanisms and Diagnosis  
*Muhammed Saric, MD*10:00 Cardiac Hemodynamics: Is Catheterization Necessary?  
*Dennis Finkelstein, MD***10:30 Refreshment Break**11:00 Name That Artifact  
*Muhammed Saric, MD*11:30 Valvular Stenosis: Evaluation, Limitations and Pitfalls  
*Marvin Berger, MD***12:00 Luncheon (Not Included)**1:00 Key Parameters for Assessment of Diastolic Function  
*Michael H. Picard, MD*1:30 Cardiac Masses and Endocarditis  
*Marvin Berger, MD*2:00 Evaluation of the Right Ventricle  
*Michael H. Picard, MD*2:30 Diseases of the Pericardium and Restrictive Cardiomyopathy  
*Susan Hecht, MD*3:00 Current Guidelines for Prosthetic Valve Evaluation  
*Michael H. Picard, MD***3:30 Refreshment Break**4:00 Current Applications of 3D/4D Echocardiography  
*Michael H. Picard, MD*4:30 Athlete's Heart, Left Ventricular Hypertrophy and Hypertrophic Cardiomyopathy  
*Mark V. Sherrid, MD***TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)**5:00 Role of TEE in Cardioversion, Stroke and Aortic Disease  
*Susan Hecht, MD*5:30 "My Most Fascinating Echo Case"  
*Dennis Finkelstein, MD*  
*Susan Hecht, MD*  
*Muhammed Saric, MD*  
*Mark V. Sherrid, MD*

6:00 Adjourn

**DAY 2 SUNDAY, OCTOBER 23, 2011**

7:30 Registration and Continental Breakfast

**ACUTE CORONARY SYNDROME; STRESS ECHOCARDIOGRAPHY, CT ANGIOGRAPHY AND CMR**8:00 Echocardiography in Acute Coronary Syndrome  
*Eyal Herzog, MD*8:30 Exercise and Pharmacological Stress Echocardiography  
*Farooq A. Chaudhry, MD*9:15 Stress Echocardiography for Risk Stratification and Prognosis  
*Siu-Sun Yao, MD*9:45 Quantification of Stress Echocardiography  
*Farooq A. Chaudhry, MD***10:15 Refreshment Break and Exhibits**10:45 Pre and Post Test Probability: Clinical Implication for Stress Testing  
*Sripal Bangalore, MD*11:15 Reversible Left Ventricular Dysfunction: Diagnosis, Risk Stratification and Prognosis  
*Farooq A. Chaudhry, MD*11:45 Echo, CT and CMR: When to Use What  
*Seth Uretsky, MD*12:15 Stress Echo: Case Studies  
*Farooq A. Chaudhry, MD*  
*Bette Kim, MD*  
*Seth Uretsky, MD*  
*Siu-Sun Yao, MD*

1:00 Adjourn for Lunch (Included)

**3D/4D ECHOCARDIOGRAPHY; CONTRAST ECHOCARDIOGRAPHY; CARDIAC RESYNCHRONIZATION; NEW AND EVOLVING TECHNOLOGIES: STRAIN, SPECKLE TRACKING AND VELOCITY VECTOR IMAGING**2:00 Wall Motion Quantification 2D & 3D: TDI, Strain, Speckle Tracking  
*Victor Mor-Avi, PhD*2:30 Contrast Echo: Clinical Uses and Future Applications  
*Farooq A. Chaudhry, MD*3:15 3D Imaging of Myocardial Perfusion in the Multimodality Era: Where Are We Heading?  
*Victor Mor-Avi, PhD***3:45 Refreshment Break**4:15 The Benefits of 3D Imaging for Chamber Quantification, Stress and Dyssynchrony: What Works and What Doesn't?  
*Victor Mor-Avi, PhD*4:45 Identifying and Optimizing Patients for Cardiac Resynchronization Therapy  
*Farooq A. Chaudhry, MD*5:15 Role of Robotic Cardiac Resynchronization  
*Sandya K. Balaram, MD*5:45 How 3D/4D Echo Made a Difference: Case Studies  
*Muhammed Saric, MD*

6:15 Adjourn

*Program Schedule*

**DAY 3 MONDAY, OCTOBER 24, 2011**

7:30 Registration and Continental Breakfast

**CONGENITAL HEART DISEASE**

8:00 Congenital Heart Disease; Shunt Lesions and Coarctation

*Leo Lopez, MD*

8:45 Proximal Isovelocity Area (PISA) Technical Consideration

*Danny Pudupud, RDMS*

9:00 Complex Congenital Heart Disease

*Leo Lopez, MD*

9:40 Tetralogy of Fallot: Follow-Up in Adults

*Leo Lopez, MD*

10:00 Refreshment Break

**WORKSHOPS WITH LIVE DEMONSTRATION**

10:30 MODERATORS: Mark V. Sherrid, MD and Siu Sun Yao, MD

What Constitutes a Comprehensive Transthoracic Echocardiography Exam and Report as per ICAEL Guidelines, Live Demonstration, Doppler Tissue Imaging, and Proximal Isovelocity Surface Area

*Danny Pudupud, RDMS**Svetlana Gaysinskaya, RCS**Elzbieta Kiwior, RDMS**Ewa Korzeniecki, RDMS**Sonal Patel, RDMS*

11:15 MODERATORS: Farooq A. Chaudhry, MD and Bette Kim, MD

Contrast Echocardiography

Live Demonstration of Contrast Echo for Left Ventricular Opacification, Endocardial Border and Spectral Doppler Signal: Enhancement, with Emphasis on Knobology

*Deborah Cantales, RDMS**Lauren Vicinanza, RDMS**Olga Vorona, RDMS, RVT*

12:00 MODERATOR: Farooq A. Chaudhry, MD

Tissue Doppler and 2-D Speckle Strain/Strain Rate for Cardiac Resynchronization and Wall Motion Quantification: Live Demonstration

*Debbie Kim, RDMS**Danny Pudupud, RDMS**Nataliya Vasquez, RDMS*12:45 **Closing Remarks**

Conference Adjourned: Turn in Evaluations

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Crowne Plaza Times Square, 1605 Broadway, New York, NY

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
First Name Last Name MD, DO, PA, etc.

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City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

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*(Be sure to include your e-mail address as confirmation/receipt will be sent electronically)*

## TUITION

	By September 30	After September 30
Physicians	<input type="checkbox"/> \$750	<input type="checkbox"/> \$800
ASE Members	<input type="checkbox"/> \$600	<input type="checkbox"/> \$650
Residents, Fellows, Sonographers and Nurses	<input type="checkbox"/> \$550	<input type="checkbox"/> \$600
ASE Members	<input type="checkbox"/> \$450	<input type="checkbox"/> \$500

## PAYMENT METHODS

- Online Registration is available and is the preferred method - [www.chpnet.org/cme](http://www.chpnet.org/cme)
- Check payable to SLRHC-CME Office is enclosed
- Credit Card # \_\_\_\_\_ Exp date \_\_\_\_\_  
 Amex  MasterCard  Visa

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Please fax this form to 212-523-2074 or mail to**

St. Luke's and Roosevelt Hospitals, Office of CME, 1111 Amsterdam Avenue, New York, NY 10025

Payment must accompany registration form.

## CANCELLATION POLICY

A refund, less a \$100 administrative fee, will be issued upon written request. No refunds will be made after October 1st. St. Luke's and Roosevelt Hospitals reserve the right to cancel this program.

## FURTHER INFORMATION

St. Luke's and Roosevelt Hospitals

Office of Continuing Medical Education

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Email: [aroman@chpnet.org](mailto:aroman@chpnet.org) ■ Website: [www.chpnet.org/cme](http://www.chpnet.org/cme)

# Registration

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