

Fundamental to Advanced Echocardiography

September 15 – 17, 2017

**Global Center for Health Innovation
Cleveland, OH**

Featuring:
Reduced fees for ASE members
Hands-On Workshops in 3D EF, Cropping, and Strain

Attend and Get MOC Points!



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Join us at Fundamental to Advanced Echocardiography

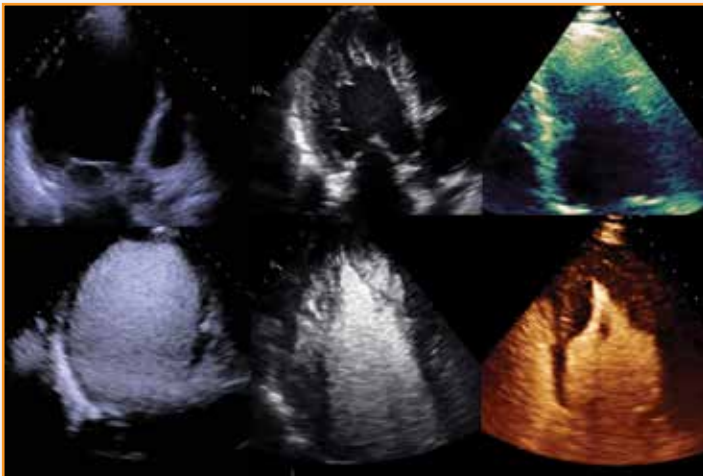
This educational activity is a fundamental to advanced echocardiography course that highlights practical issues in echocardiography salient to cardiovascular medicine practice including new imaging technologies, multimodality imaging, the role of echo in clinical practice and guidance for structural heart interventions, as well as a focus on innovations. You will learn about the most current clinical and research studies, hear experts' analyses of cutting-edge technical innovations, and receive guidance on optimal use of echocardiography in your clinical practices.

Who Should Attend?

This activity is designed for cardiologists, anesthesiologists, sonographers, intensive care/critical care and pain management specialists, internists, and other practicing health care professionals who desire an update on the fundamentals and advancements in echocardiography.

Learning Objectives

- Explain and apply 2D, 3D, and strain methods to quantify cardiac size and function
- Discuss the challenges and limitations of the assessment of diastolic function
- Use Doppler methods to comprehend cardiac hemodynamics
- Describe the most appropriate methods for the imaging, identification, and quantification of valvular heart disease
- Critically appraise new 2017 valve guidelines and assess their impact on clinical practice
- Describe the diagnostic use of echocardiography in the identification and diagnosis of pericardial disease, constriction and tamponade, dilated cardiomyopathies, hypertrophic cardiomyopathies, and prosthetic valve dysfunction
- Explain techniques for performing and interpreting stress echocardiography
- List best uses of transesophageal echocardiography and point of care ultrasound
- Describe the role of echocardiography in the assessment of the competitive athlete
- Summarize use of echocardiography in critical care



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Agenda

Friday, September 15, 2017

6:45 am Registration, Continental Breakfast, and Exhibits

7:15 am Introduction and Welcome

Assessment of the Left Ventricle – Fundamentals

7:30 am Imaging the LV and Measuring LV Volumes and Mass – General Principles

7:50 am Quantification of LV Function and Mechanics

8:10 am How to Interrogate for Diastolic Dysfunction

8:30 am Diastolic Function: Interpretation – Pitfalls

8:50 am Question and Answers

The Other Cardiac Chambers

9:00 am Quantification of RV Size and Function

9:20 am Providing Accurate Quantification of Right Heart Pressures

9:40 am Assessment of Atrial Size and Function

10:00 am Use of Echo Contrast

10:20 am Question and Answers

10:30 am Refreshment Break and Exhibits

Valvular Heart Disease

11:00 am Doppler Hemodynamics

11:20 am The Sonographer's Role in Interrogating for Mitral Pathology

11:40 am The Integrative Method for Quantification of Mitral Regurgitation

12:00 pm How to Quantify Mitral Stenosis – New Updates

12:20 pm Imaging the Tricuspid and Pulmonary Valve

12:40 pm Question and Answers

1:00 pm Lunch on own and Visit Exhibits

2:00 pm Interpreting Right Sided Valvular Regurgitation and Stenosis Severity

2:20 pm Technical Pearls on Imaging in Aortic Regurgitation

2:40 pm Quantifying Aortic Regurgitation by Doppler Echo – Perhaps Our Greatest Challenge!

3:00 pm Refreshment Break and Exhibits

3:15 pm How to Never Miss Significant Aortic Stenosis

3:35 pm Interpretation Pearls in Aortic Stenosis

3:55 pm Valvular Heart Disease Guidelines Update 2017: How Will They Impact Practice?

4:15 pm Questions and Answers

4:25 pm General Session Adjourn

4:30 pm Optional Workshops

Choose one:

Workshop A:

(\$125 additional fee/ limited space, first-come, first-served)

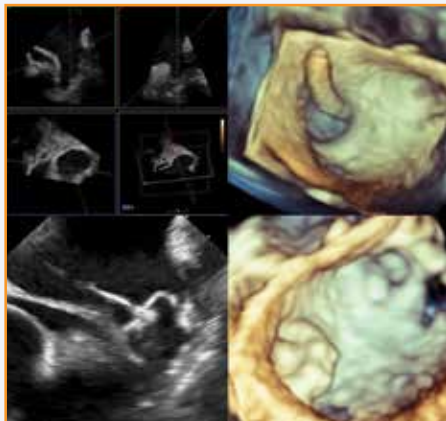
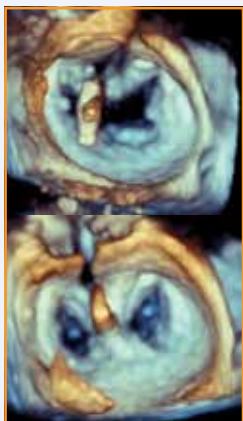
How to Employ 3D Echo and Strain for LV Function in Your Practice

Workshop B:

(\$50 additional fee/ limited space, first-come, first-served basis)

Echocardiography Simulation Lab and Live Scanning: Transthoracic and Transesophageal Echocardiography

6:00 pm Adjourn



Saturday, September 16, 2017

7:00 am	Registration, Continental Breakfast, and Exhibits	11:35 am	Echo in VADs, ECMO, and Impella
Echo in Pericardial and Myocardial Disease		11:55 am	Questions and Answers
7:30 am	Imaging in Pericardial Disease: A Real Challenge!	12:05 pm	Lunch and Visit Exhibits
7:50 am	Diagnosis of Constriction and Tamponade	1:05 pm	Imaging for Cardiac Masses
8:10 am	Echo-Guided Pericardiocentesis	1:25 pm	Cardio-Oncology
8:30 am	Fundamentals in Imaging in HOCM	1:45 pm	Identifying Prosthetic Valve Dysfunction
8:50 am	The Many Faces of Hypertrophic Cardiomyopathies	2:05 pm	Echo's Role in Diagnosing Endocarditis
9:10 am	Identifying Dilated Cardiomyopathies by Echo	2:25 pm	Echo in the Diagnosis of Aortic Disease
9:30 am	Questions and Answers	2:45 pm	Questions and Answers
9:40 am	Refreshment Break and Visit Exhibits	2:55 pm	Refreshment Break and Visit Exhibits
Stress Echo and Advanced Echo Techniques		3:10 pm	Assessment of Intracardiac Shunts and Congenital Heart Disease
9:55 am	Performing and Interpreting Stress Echo – Technical Tips	3:30 pm	The Athletic Heart
10:15 am	Stress Echo – Not Just for Coronary Artery Disease Anymore	3:50 pm	Questions and Answers
10:35 am	Introduction to Strain Imaging	4:00 pm	General Session Adjourn
10:55 am	Strain Imaging in Cardiomyopathies	4:15 pm Optional Workshop Workshop C: (\$125 additional fee/ limited space, first-come, first-served basis) 3D Image Reconstruction and Cropping Workshop	
11:15 am	Echo Optimization in Cardiac Resynchronization Therapy		
5:45 pm		5:45 pm	Adjourn

Sunday, September 17, 2017

7:00 am	Continental Breakfast and Visit Exhibits	10:10 am	Refreshment Break and Visit Exhibits
Echo Lab Fundamentals		Echocardiography in Structural Heart Disease	
7:30 am	Echo Emergencies (Rupture, Dissection, Dehiscence, Trauma)	10:30 am	Procedural Guidance of Structural Heart Disease: Essentials
7:50 am	Echocardiography in Critical Care	10:50 am	Role of Echo in TAVR
8:10 am	Maintenance of Echo Lab IAC Accreditation in 2015	11:10 am	Procedural Guidance for E-Clip, Para Valvular Leak Closure, Watchman
8:30 am	Informatics and Image Management in the Echo Lab	11:30 am	Interventional Echo: The Good, the Bad and the Ugly
8:50 am	Case-based Diagnostic/ Hemodynamic Challenges	11:50 am	Future Directions in Structural Heart Disease
9:10 am	Point of Care Echocardiography	12:10 pm	Questions and Answers
9:30 am	Echo in Systematic Disease Diagnosis	12:30 pm	Adjourn
9:50 am	Questions and Answers		

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General Information

Location

Global Center for Health Innovation

1 St. Clair Avenue NE
Cleveland, OH
216.920.1450

Hotel Accommodations

A limited block of rooms has been reserved at the Hilton Cleveland downtown until August 25, 2017. To make your reservations, contact the hotel at 216.413.5000 and identify yourself as an attendee for the **Cleveland Clinic Fundamental to Advanced Echocardiography course** for special rate of \$179 per night single or double occupancy.

Parking

Valet parking is available at the Hilton and self-parking is also available at the Huntington Garage on Lakeside Avenue.

Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 22.25 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

MOC

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 19.25 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.

MOC is not available for workshops.



Things to Do in Cleveland

Bring your family for a fun-filled weekend! Enjoy a Cleveland Indians baseball game, as they take on the Kansas City Royals, or explore fabulous impressionists at the world-famous Cleveland Museum of Art, which is free to the public, or explore our hipster neighborhoods with boutiques and trendy restaurants.

Check out www.thisiscleveland.com to plan your trip or download the official "Destination Cleveland" app, for a personalized guide to Cleveland's must-see attractions, restaurants and events.

Other Health Care Professionals

A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.



Registration

Register Online at www.ccfme.org/echocardio

Fee includes: Continental breakfasts, refreshment breaks, lunch on Saturday, and faculty PowerPoint presentations in PDF format, available online.

Fee does not include optional workshops.

Fees	Early/Before August 11	After August 11
Physician	\$675	\$775
ASE Physician	\$540	\$620
Alumni	\$608	\$708
Resident*/Fellow*	\$275	\$375
Sonographer/Non-Physician	\$450	\$550
ASE Sonographer/Non-Physician	\$360	\$440

*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged.

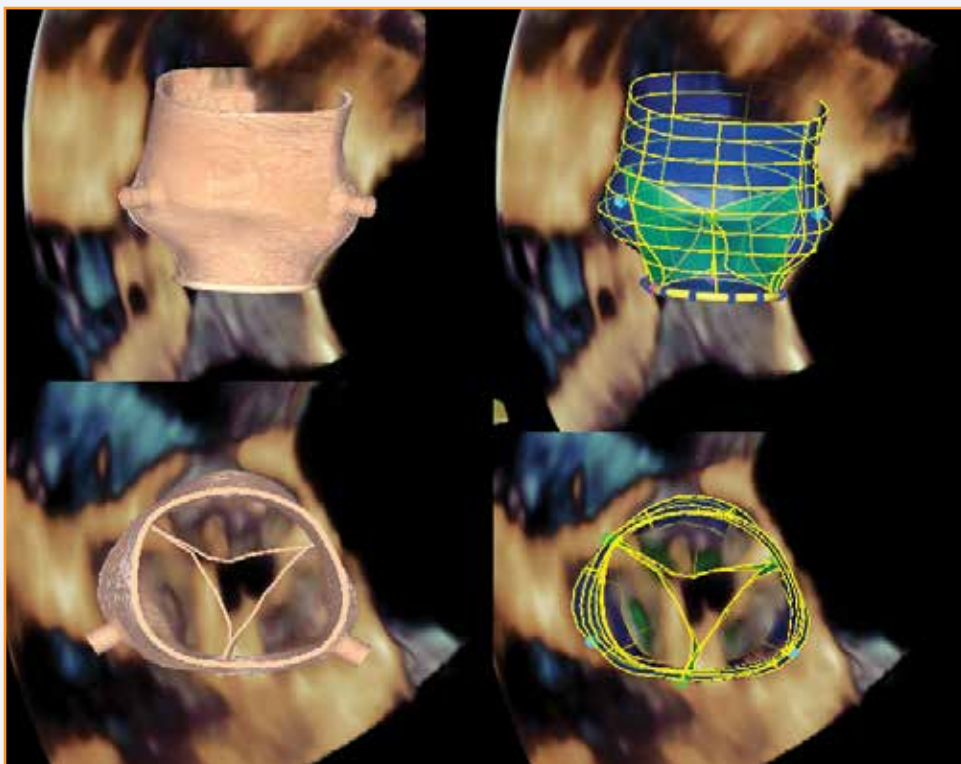
Registration and Cancellation

Preregistrations are accepted until 2:00 pm ET September 14, 2017. Register on site after this date.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if cancelled by August 17, 2017. After August 17, 2017, a \$100 cancellation fee will be deducted from your refund. No refunds will be issued after September 13, 2017.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone activity in our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.



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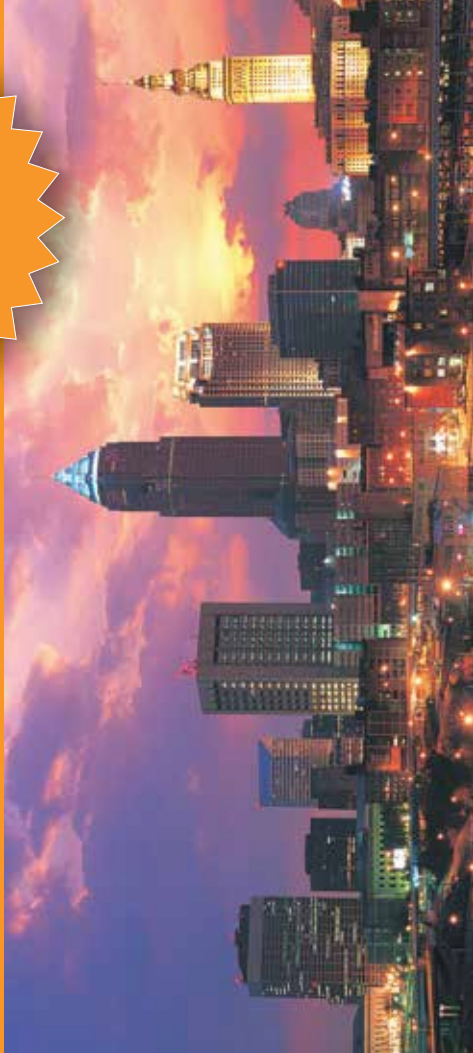
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