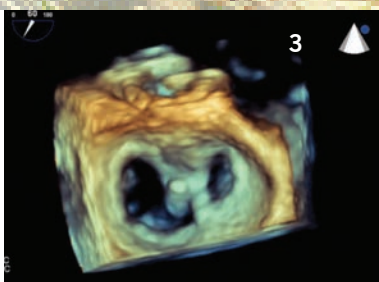
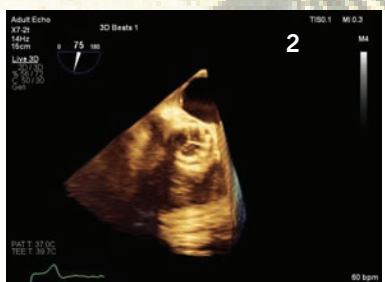
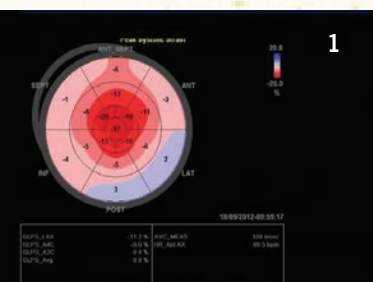


20th Valve Disease, Structural Interventions, and Diastology Summit

March 2-4, 2018

Marriott Harbor Beach Hotel
Fort Lauderdale, FL

- Echo Interpretation Competition!
Prizes Awarded!
- Reduced fees for Sonographers
- Earn 21 CMEs + 21 ABIM MOC points!



Register Today! ccfcme.org/echo

OVERVIEW

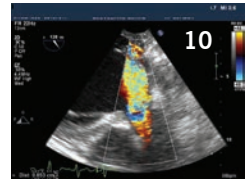
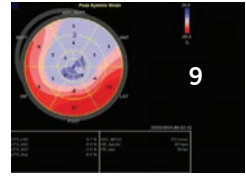
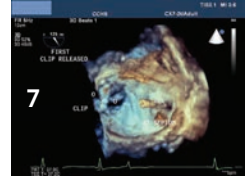
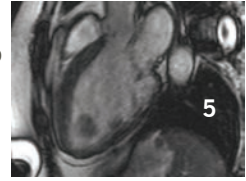
Valve Disease, Structural Interventions, and Diastology Summit will focus on valve disease, particularly the newest issues of structural valve interventions. About a third of the Summit will emphasize echocardiographic and clinical evaluation of diastolic dysfunction and the ASE guidelines. The Summit will provide a unique opportunity to receive updates in new and emerging topics from basic to advanced imaging techniques including 3-D echocardiography, strain imaging, echo guidance of transcatheter therapies as well as MRI/CT. We will discuss the clinical indications for structural interventions and surgery, as well as the merits and goals of medical management.

BY ATTENDING, YOU WILL BE ABLE TO:

- Apply echocardiography to diagnose the severity, mechanism, etiology, and hemodynamic impact of the many types of valve disease, including aortic stenosis, mitral regurgitation, aortic regurgitation, prosthetic dysfunction, hypertrophic cardiomyopathy, and tricuspid valve disorders
- Assess the most recent innovations in structural valve interventions and describe their clinical use
- Translate new guideline criteria on imaging into current decision-making regarding structural valve interventions, medical treatment, and surgical valve repair/replacement
- Utilize echocardiographic imaging for imaging before, during, and after interventional procedures, including transcatheter valve replacement (aortic and mitral), closure of periprosthetic leaks, LAA closure, septal defect closure, and edge-to-edge mitral and tricuspid repair
- Gain an updated understanding on new and emerging imaging techniques, including 3D echocardiography, strain imaging, and MRI/CT
- Describe clinical methods to diagnose diastolic dysfunction and manage disorders such as heart failure with preserved ejection fraction, constrictive pericarditis, amyloid heart disease, and cardiac tamponade
- Discuss role of clinical indications and emerging uses of contrast echocardiography

WHO SHOULD ATTEND?

Noninvasive and invasive cardiologists, cardiac surgeons, anesthesiologists, sonographers, nurses, fellows, cardiology nurse practitioners, and physician assistants will benefit from attending this Summit.



SUMMIT DIRECTOR



Allan L. Klein, MD, FRCP(C), FACC, FAHA, FASE, FESC
Professor of Medicine
Cleveland Clinic Lerner
College of Medicine of Case
Western University
Cleveland Clinic
Past President, American
Society of Echocardiography
Director, Pericardial Center
Department of Cardiovascular
Medicine
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SUMMIT CO-DIRECTORS



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Cleveland Clinic Lerner College
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Reserve University
Director, Cardiovascular
Curriculum
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Linda Gillam, MD, MPH, FACC, FASE, FESC
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Thomas Jefferson University
Chair, Cardiovascular Medicine
Morristown Medical Center/
Atlantic Health System
Morristown, NJ

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Morristown Medical Center
Morristown, NJ

Sherif Nagueh, MD

Professor of Cardiology, Institute for
Academic Medicine
Full Member, Research Institute
Houston Methodist
Weill Cornell Medical College
Houston, TX

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Founding Director, Cardiac Non-Invasive
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Stephanie Mick, MD

Thoracic and Cardiovascular Surgery

Gian M. Novaro, MD, FACC, FASE

Director, Echocardiography Laboratory
Cleveland Clinic Florida

Jonathon White, MD

Invasive and Interventional Cardiology

REGISTER ONLINE AT ccfcme.org/echo

Cleveland Clinic employee fees and registration are available online only.

Fees

Fee includes: daily continental breakfasts, refreshment breaks, and faculty PowerPoint presentations in PDF format

	Fee on or before Jan 8	Fee after Jan 8
Physician	\$875	\$975
ASE Physician	\$700	\$800
Non Physician/Fellows*	\$500	\$600
ASE Non Physician/Fellows*	\$400	\$500
Sonographer	\$400	\$500
ASE Sonographer	\$300	\$400

*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 February 28, 2018. 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 canceled by February 9, 2018. After that date, a \$150 cancellation fee will be deducted from your refund. No refunds will be issued after February 23, 2018.

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 an activity at 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.

AGENDA

FRIDAY, MARCH 2, 2018

6:00 AM Registration, Continental Breakfast, and Visit Exhibits

Valve Disease: Focus on Aortic Stenosis

Moderators: David Rubenson, MD, and William J. Stewart, MD

7:00 AM **Aortic Stenosis: What Criteria Direct Which Treatment?**
David Rubenson, MD

7:20 AM **Mechanism of Aortic Stenosis: Degenerative, Atherosclerosis, or Inflammation**
Gian M. Novaro, MD

7:40 AM **Heart Team Approach to TAVR**
Stephanie Mick, MD

8:00 AM **3D Echo and CT Imaging for TAVR**
Milind Desai, MD

8:20 AM **Is TAVR Applicable in Lower and Intermediate Risk Groups?**
Jonathon White, MD

8:40 AM **Paravalvular Leak in TAVR: Prediction, Prevention, Quantitation and Management**
Linda Gillam, MD

9:00 AM **Valve in Valve TAVR - Another Plus for Bioprostheses at First Operation?**
Robert Cubeddu, MD

9:20 AM **Panel Discussion**
Moderators: David Rubenson, MD, and William J. Stewart, MD; Robert Cubeddu, MD; Milind Desai, MD; Linda Gillam, MD; Stephanie Mick, MD; Gian M. Novaro, MD; and Jonathon White, MD

9:50 AM **Refreshment Break and Visit Exhibits**

Moderators: Linda Gillam, MD, and Sherif Nagueh, MD

10:20 AM **Intraprocedural TEE in SAVR and TAVR: Incremental Benefit or Essential Tool?**
Maurice Sarano, MD

10:40 AM **Thoracic Aortic Disease – When CT, MR, TTE, TEE?**
Milind Desai, MD

11:00 AM **Ascending Aortic Dilation - A Concomitant of Aortic Valve Disease**
Gian M. Novaro, MD

11:20 AM **Paradoxical or Not: Low Flow, Low Gradient Aortic Stenosis (AS)**
William J. Stewart, MD

11:40 AM **Transcatheter Procedures - What to Do When the Awful Happens**
Jonathon White, MD

12:00 PM **Dobutamine Echo in Aortic Stenosis - Indications, Methods, Impact on Management**
Brian Griffin, MD

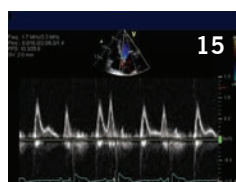
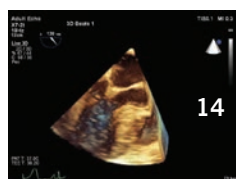
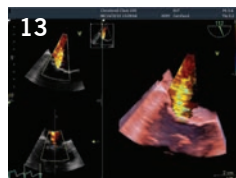
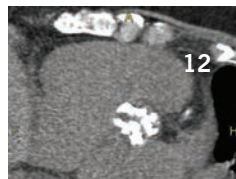
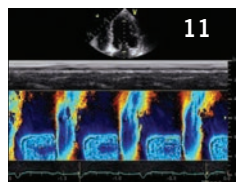
12:20 PM **Panel Discussion**
Moderators: Linda Gillam, MD, and Sherif Nagueh, MD; Milind Desai, MD; Brian Griffin, MD; Gian M. Novaro, MD; Maurice Sarano, MD; William J. Stewart, MD; and Jonathon White, MD

12:50 PM **Case Workshop – How to do AS Exam for Sonographers, Choosing TAVR vs SAVR for Aortic Stenosis, Contrast Echo Examples and LAA Closure Cases**
Presenters: Deborah A. Agler, RDCS; Robert Cubeddu, MD; Milind Desai, MD; Brian Griffin, MD; Konstantinos P. Koulogiannis, MD; and Stephanie Mick, MD

1:40 PM **“Echo Interpretation Competition”**
Allan L. Klein, MD, and William J. Stewart, MD

2:00 PM **Question and Answer**

2:30 PM **Adjourn**



SATURDAY MARCH 3, 2018

6:15 AM Registration, Continental Breakfast and Visit Exhibits

Diastolic Dysfunction and Right Heart Function

Moderators: Allan L. Klein, MD, and Maurice Sarano, MD

7:00 AM State of the Art: American Society of Echo Guidelines Diastology Update
Sherif Nagueh, MD

7:20 AM Practical Approach to Diastolic Function: Limitations and Pitfalls
Deborah A. Agler, RDCS

7:40 AM Estimating LV Filling Pressures with Doppler
Milind Desai, MD

8:00 AM Constriction and Amyloid: Diastolic Dysfunction
Allan L. Klein MD

8:20 AM Diastolic Dysfunction and LVOT Gradients in Hypertrophic Cardiomyopathy
Craig R. Asher, MD

8:40 AM Hemodynamic Correlates of Diastolic Dysfunction: What do the Studies Show?
Sherif Nagueh, MD

9:00 AM Diastolic Dysfunction in Special Populations: Atrial Fibrillation, MV Disease, Transplant, Pulmonary Hypertension
William J. Stewart, MD

9:20 AM Panel Discussion

*Moderators: Allan L. Klein, MD, and Maurice Sarano, MD
Craig R. Asher, MD; Milind Desai, MD; Brian Griffin, MD;
Sherif Nagueh, MD; and William J. Stewart, MD*

9:50 AM Refreshment Break and Visit Exhibits

Moderators: Sherif Nagueh, MD, and Jonathon White, MD

10:20 AM Athlete's Heart or Non-obstructive Hypertrophic Cardiomyopathy
Craig R. Asher, MD

10:40 AM Complicated Pericarditis: A New Imaging Guided Approach
Allan L. Klein, MD

11:00 AM Clinical Presentation of Right Sided Heart Disease – “Look-alikes”
Linda Gillam, MD

11:20 AM Tricuspid Valve Dysfunction- Subtypes and Outcomes
David Rubenson, MD

11:40 AM Tricuspid Regurgitation: Repair vs Replace?
Stephanie Mick, MD

12:00 PM Tricuspid Regurgitation: New Percutaneous Options
Maurice Sarano, MD

12:20 PM Role of Contrast Echo in Assessing Left and Right Heart Function
Deborah A. Agler, RDCS

12:40 PM Panel Discussion

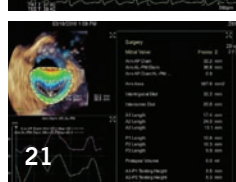
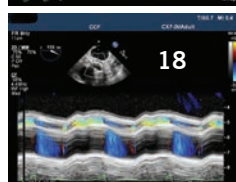
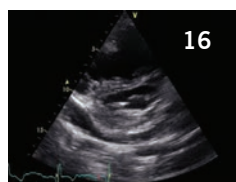
*Moderators: Sherif Nagueh, MD, and Jonathon White, MD
Deborah A. Agler, RDCS; Craig R. Asher, MD; Linda Gillam, MD;
Allan L. Klein, MD; Stephanie Mick, MD; David Rubenson, MD;
and Maurice Sarano, MD*

1:10 PM Case Workshop – Constriction, Restriction, Tricuspid Regurgitation, Contrast Echo Cases

*Presenters: Deborah A. Agler, RDCS; Craig Asher, MD; Allan L Klein, MD;
Konstantinos P. Koulogiannis, MD; Sherif Nagueh, MD; David Rubenson, MD;
and Maurice Sarano, MD*

2:00 PM Question and Answer

2:30 PM Adjourn



SUNDAY, MARCH 4, 2018

6:15 AM Continental Breakfast and Visit Exhibits

Valve Regurgitation, 3D Echo, and Strain

Moderators: Linda Gillam, MD, and Stephanie Mick, MD

7:00 AM Quantifying MR or AR: Flow Convergence Vena Contracta, Jet Area, Regurgitant Fraction
Linda Gillam, MD

7:20 AM Aortic Regurgitation - Decisions Based on Clinical and Echo Data
Brian Griffin, MD

7:40 AM Ischemic/Secondary Mitral Regurgitation – Who, Who-Not, and When To do Surgery?
Stephanie Mick, MD

8:00 AM Asymptomatic Severe Mitral Regurgitation: Choosing the Golden Moment
William J. Stewart, MD

8:20 AM Exercise Testing in Mitral or Aortic Valve Disease: What do the Guidelines Say?
David Rubenson, MD

8:40 AM Mitraclip - Intra-Procedural TEE guidance: 3D and Biplane Echo
Maurice Sarano, MD

9:00 AM Paravalvular Leak Closure, Transcatheter Mitral or Tricuspid Replacement
Jonathon White, MD

9:20 AM Panel Discussion

Moderators: Linda Gillam, MD, and Stephanie Mick, MD; Brian Griffin, MD; David Rubenson, MD; Maurice Sarano, MD; William J. Stewart, MD; and Jonathon White, MD

9:50 AM Refreshment Break and Visit Exhibits

Moderators: Gian M. Novaro, MD, and Jonathan White, MD

10:20 AM Incorporating 3D Echo and LV Strain into Routine Practice in the Echo Lab
Deborah A. Agler, RDCS

10:40 AM 3D Echo: How to Acquire Data with Each of 3 Vendors
Konstantinos P. Koulogiannis, MD

11:00 AM Unique Skills of 3D Echo over 2D: Which Situations?
William J. Stewart, MD

11:20 AM Myocardial Mechanics; Strain and Torsion in Clinical Practice
Sherif Nagueh, MD

11:40 AM LV Strain in Cardio-Oncology
Craig R. Asher, MD

12:00 PM Muscle Mechanics in Pericardial Diseases
Allan L Klein, MD

12:20 PM Panel Discussion

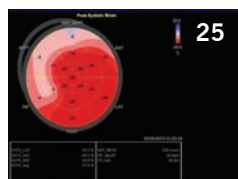
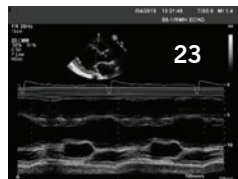
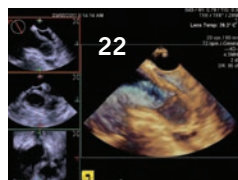
Moderators: Gian M. Novaro, MD, and Jonathan White, MD; Deborah A. Agler, RDCS; Craig R. Asher, MD; Milind Desai, MD; Konstantinos P. Koulogiannis, MD; Sherif Nagueh, MD; and William J. Stewart, MD

12:50 PM Case Workshop: Radiation Cases, Contrast Echo Cases; MR Treatment: Medicine, Clip, or Surgery
Presenters: Deborah A. Agler, RDCS; Craig R. Asher, MD; Robert Cubeddu, MD; Milind Desai, MD; Brian Griffin, MD; Konstantinos P. Koulogiannis, MD; and Jonathan White, MD

1:40 PM Echo Interpretation Competition Awards Presentation
Allan L. Klein, MD, and William Stewart, MD

2:00 PM Question and Answer

2:30 PM Adjourn



GENERAL INFORMATION

Location

Marriott Harbor Beach Hotel

3030 Holiday Drive
Fort Lauderdale, FL, 33316-2414
954.525.4000

Located on a quarter-mile of private beach, you'll enjoy tropical tranquility while close to Fort Lauderdale airport and top attractions. Enjoy jet skiing or snorkeling available at the hotel, or pamper yourself at the full-service spa.

Hotel Accommodations

A limited block of rooms has been reserved at the Marriott Harbor Beach only until February 8, 2018. Rooms are first-come, first-served.

To make reservations, contact the hotel at 800.222.6543 and identify yourself as an attendee with the Cleveland Clinic Diastology group to receive special rates of \$349 per room plus applicable tax/fees.

Reservations can also be made online at www.ccfme.org/EchoHotel

Nearby Attractions

Aside from the fabulous beach, Ft. Lauderdale has some of the best people-watching in Florida. And don't forget to stroll or jog along the palm tree, brick-lined beachfront promenade.

Discover the convenience and the value of shopping in everything from boutiques to department stores. You can even shop by Water Taxi to some areas. Sawgrass Mills, the world's largest discount and entertainment mall is a close drive from the hotel. Don't forget the trendy Las Olas Boulevard known as Fort Lauderdale's "style mile," which is lined with boutiques, a restaurant row with acclaimed chefs, and lively cafés with sidewalk seating. Las Olas is also a stop along the Water Taxi system.

For a comfortable afternoon, enjoy an Intracoastal Waterway cruise, where you'll see eye-popping mansions along Millionaire's Row, the mega-yachts of the rich and famous, and private islands. From popular cruises like the Jungle Queen Riverboat, to intimate gondola rides, Water Taxis, and kayak tours, you'll get an up close and personalized look at Lauderdale's flora and fauna.

To see what you'll be enjoying during your down time, visit this website:

www.sunny.org/webcam

Information

For further information about this activity, contact the Cleveland Clinic Center for Continuing Education.

Website: ccfme.org/echo

Local: 216.444.9990

Echo Interpretation Competition

Test your knowledge. Use the images in this brochure (and on website) to submit your best/correct diagnoses. Entries will be submitted on Friday and reviewed by the course directors for prizes. Instructions will be posted on the course website. Winners will be announced on Sunday.

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 21 *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.

American Board of Internal Medicine MOC

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 21 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. 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 available for full course attendance only.

Other Health Care Professionals

A certificate of participation 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.

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