22nd Valve Disease, Structural Interventions, and Diastology/Imaging Summit

February 27 - March 1, 2020
Diplomat Beach Resort
Hollywood, Florida

Special Topics:
• How-To Sessions on Strain, 3-D, and Diastology
• Guideline-Based Valve Disease Management
• New Structural Devices
• Artificial Intelligence
• Learning Lab for Interventional Echo on Thursday!
• Earn up to 22.75 AMA PRA Category 1 Credits™ and ABIM MOC Points
Join us for a unique summit tackling the latest issues in valve disease, structural interventions, advanced imaging as well as artificial intelligence

For the 25th consecutive year, Cleveland Clinic’s heart program has been ranked as the best in the nation, earning the No. 1 ranking in U.S. News & World Report’s “2019-20 Best Hospitals.”

Since 1995, no hospital in the country has ranked higher than Cleveland Clinic in cardiac care and we invite you to join us for the 22nd Valve Disease, Structural Interventions, and Diastology/Imaging Summit which will focus on mitral, aortic and tricuspid valve diseases. The latest advances in structural interventions including TAVR, percutaneous mitral repair, valve-in-valve procedures and LAA occluder devices will be addressed as well as case-based lectures and workshops about strain, 3-D, and contrast echo.

This course will provide a unique opportunity to receive updates in new and emerging topics from basic to advanced imaging techniques including 3-D echocardiography, fusion imaging, strain imaging, interventional echo as well as MRI/CT. New guidelines will be discussed in addition to advances in pericardial and myocardial diseases. There will be an update on artificial intelligence.

New this year will be an optional hands-on learning lab demonstrating the use of 3D transesophageal echocardiography and multiplanar reconstruction for the preprocedural evaluation and intraprocedural guidance of structural heart interventions. Structural heart disease topics will include 3D evaluation of the interatrial septum, mitral and tricuspid valves.

**IMPROVE YOUR KNOWLEDGE TO:**

- Apply echocardiography to diagnose the severity, mechanism, etiology, and hemodynamic impact of the many types of valve disease, including mitral regurgitation, mitral stenosis, aortic stenosis, aortic regurgitation and tricuspid valve disorders
- Assess the most recent innovations in structural 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, closure of periprosthetic leaks, valve-in-valve repair, LAA closure, and tricuspid repair
- Discuss multimodality imaging techniques, including 3-D echocardiography, fusion imaging, strain imaging, MRI/CT as well as contrast echo
- Describe clinical methods to diagnose diastolic dysfunction and manage disorders such as heart failure with preserved ejection fraction, cardiac amyloidosis, complicated pericarditis and hypertrophic cardiomyopathy
- Discuss role of clinical indications and emerging uses of contrast echocardiography
- Learn what artificial intelligence is and how to use it in clinical practice

**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
GUEST FACULTY

Rebecca Hahn, MD
Professor of Medicine
Director of Interventional Echocardiography
New York-Presbyterian/ Columbia University Medical Center
New York, NY

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

Partho Sengupta, MD
Professor of Medicine
Chief, Division of Cardiology
Director, Cardiovascular Imaging
WVU Heart and Vascular Institute
Morgantown, WV

Robert J. Siegel, MD
S. Rexford Kennamer, MD Chair in Cardiac Ultrasound
Medical Director, Clinic for Hypertrophic Cardiomyopathy and Aortopathies
Cedars-Sinai Medical Center
Los Angeles, CA

CLEVELAND CLINIC HEART AND VASCULAR INSTITUTE FACULTY

Craig Asher, MD
Director, Hypertrophic Cardiomyopathy Clinic
Cleveland Clinic Florida

Anne Campbell, MS, RDCS
Coordinator of Education and Training, Regional Hospitals

Patrick Collier, MD, PhD, FASE, FESC
Assistant Professor of Medicine
Associate Director, Echo Lab
Co-Director, Cardio-oncology Center

Robert J. Cubeddu, MD
Chair, Department of Cardiovascular Medicine
Cleveland Clinic Florida

Amy Dillenbeck, MS, ACS, RDCS, FASE
Coordinator, Education and Training

Neil Greenberg, PhD
Project Staff

Rhonda Miyasaka, MD
Staff Cardiologist

Jose Navia, MD
Director, Heart and Vascular Center
Chair, Cardiothoracic Surgery
Department of Thoracic and Cardiovascular Surgery
Cleveland Clinic Florida

Gosta Pettersson, MD, PhD
Professor of Surgery
Vice Chair, Cardiovascular Surgery

REGISTER ONLINE AT ccfcme.org/echo

Fees
Fee includes: continental breakfasts, refreshment breaks, online faculty presentations in PDF format

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*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.

There is an additional fee for the Optional Learning Lab on Thursday. Registration is first-come, first-served and is limited to 25 participants.

Visit www.ccfcme.org/echo for complete registration information.

Registration and Cancellation
Preregistrations are accepted until 12:00 pm ET Tuesday, February 25, 2020. 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 1, 2020. After February 1, 2020, a $200 cancellation fee will be deducted from your refund. No refunds will be issued after February 21, 2020.

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

THURSDAY, FEBRUARY 27, 2020

5:30 pm  Learning Lab for Interventional Echo (Optional)
Anne Campbell, RDCS;
Amy Dillenbeck, RDCS;
Rhonda Miyasaka, MD; and
L. Leonardo Rodriguez, MD

This learning lab offers hands-on practice of 3D transesophageal echo and multiplanar reconstruction for preprocedural evaluation and intraprocedural guidance of structural heart interventions.
Additional fee and registration required, first-come, first-served. Capacity 25 participants

7:30 pm  Adjourn

FRIDAY, FEBRUARY 28, 2020

5:30 am  Registration, Continental Breakfast, and Visit Exhibits

6:00 am  Hot Topic and Breakfast with Faculty: Open Discussion on Mitral Valve and Structural Interventions

6:50 am  Introduction
Allan L. Klein, MD;
Christine Jellis, MD, PhD; and
L. Leonardo Rodriguez, MD

SESSION 1
VALVE DISEASE: FOCUS ON THE MITRAL VALVE
Moderators: Allan L. Klein, MD, and Robert J. Siegel, MD

7:00 am  Complexities of the Mitral Valve Structure and Mechanics
Robert J. Siegel, MD

7:20 am  Mitral Regurgitation: Etiology and Quantification
Allan L. Klein, MD

7:40 am  Management of MR: Past Controversies and Current ACC/AHA/ESC Guideline-Based Recommendations
L. Leonardo Rodriguez, MD

8:00 am  Primary and Secondary Mitral Regurgitation – Who, Who-Not, and When to do Surgery?
Gosta Pettersson, MD, PhD

8:20 am  Percutaneous Mitral Valve Repair: Multimodality Imaging
Robert J. Siegel, MD

8:40 am  Calcific Mitral Stenosis: Percutaneous and Surgical Options and Challenges
Samir Kapadia, MD

9:00 am  Panel Discussion - Q/A
Moderator: L. Leonardo Rodriguez
Samir Kapadia, MD;
Allan L. Klein, MD;
Gosta Pettersson, MD, PhD; and
Robert J. Siegel, MD

9:20 am  Refreshment Break and Visit Exhibits

SESSION 2
STRUCTURAL INTERVENTIONS: MITRAL VALVE AND LEFT ATRIUM
Moderators: Christine Jellis, MD, PhD and Robert J. Siegel, MD

9:40 am  Exercise Testing in Mitral Valve Disease: What do the Guidelines Say?
Christine Jellis, MD, PhD

10:00 am  Evaluation of Valvular Regurgitation after Percutaneous Valve Repair: What do the New Guidelines Say?
Robert J. Siegel, MD

10:20 am  LAA Occluder Devices – Current Indications
Robert J. Cubeddu, MD

10:40 am  How Does the Sonographer Acquire Quality Data for the Mitral Valve and the Left Atrium?
Amy Dillenbeck, RDCS

11:00 am  Panel Discussion – Q/A
Moderator: Samir Kapadia, MD
Robert J. Cubeddu, MD
Amy Dillenbeck, RDCS;
Christine Jellis MD, PhD; and
Robert J. Siegel, MD

Controversies in Mitral Valve Disease
Moderators: Rhonda Miyasaka, MD and L. Leonardo Rodriguez, MD

Debate: Mitral Leaflet Repair will be Routinely Used to Treat Severe Functional Mitral Regurgitation

11:20 am  Pro: Robert J. Siegel, MD
11:35 am  Con: Samir Kapadia, MD
11:50 am  Rebuttal: Samir Kapadia, MD
12:00 pm  Rebuttal: Robert J. Siegel, MD
12:10 pm  Discussion

Simultaneous Sessions

12:20 pm  How-to-Do Session A: 3-D Reconstruction and Cropping in Valve Disease
Moderators: Anne Campbell, RDCS; Amy Dillenbeck, RDCS; Christine Jellis, MD, PhD; and Rhonda Miyasaka, MD

This how-to session offers hands-on practice of cropping with 3D transesophageal and transthoracic imaging. The focus will be on valvular heart disease.
First-come, first-served. Capacity 25 participants.

Moderator: Patrick Collier, MD, PhD
Robert J. Cubeddu, MD; Samir Kapadia, MD;
Allan L. Klein, MD; L. Leonardo Rodriguez, MD;
Gosta Pettersson, MD, PhD; and
Robert J. Siegel, MD

1:30 PM  Adjourn
SATURDAY, FEBRUARY 29, 2020

5:45 am  Registration, Continental Breakfast, and Visit Exhibits

6:00 am  Hot Topic and Breakfast with Faculty: Open Discussion on Aortic Valve and Structural Interventions

SESSION 3  VALVE DISEASE: FOCUS ON THE AORTIC VALVE

Moderators: Gosta Pettersson, MD, PhD and Partho Sengupta, MD

7:00 am  Aortic Valve Morphology and Common Associations
Patrick Collier, MD, PhD

7:20 am  Low Flow, Low Gradient Aortic Stenosis: What Does this Mean and How to Image?
Rebecca Hahn, MD

7:40 am  Stress Echo in Aortic Stenosis– Indications, Methods, Impact on Management
Christine Jellis, MD, PhD

8:00 am  Aortic Root Anatomy – Utilizing the Best of Echo and CT Imaging to Optimize TAVR Outcomes
L. Leonardo Rodriguez, MD

8:20 am  TAVR vs. SAVR – New Devices and Expanding Indications
Samir Kapadia, MD

8:40 am  Aortic Regurgitation: Mechanism and Quantification by Multimodality Imaging and Impact on Treatment
Patrick Collier, MD, PhD

9:00 am  Panel Discussion - Q/A
Moderator: Gosta Pettersson, MD, PhD
Rebecca Hahn MD; Christine Jellis, MD, PhD; Samir Kapadia, MD; and L. Leonardo Rodriguez, MD

9:20 am  Refreshment Break and Visit Exhibits

SESSION 4  STRUCTURAL INTERVENTIONS AND TRICUSPID VALVE

Moderators: Allan L. Klein, MD, and Sherif Nageuh, MD

9:40 am  Imaging the Tricuspid Valve for Procedural Guidance
Rebecca Hahn, MD

10:00 am  Surgical Approach to Tricuspid Regurgitation: When and How?
Jose Navia, MD

10:20 am  Percutaneous Treatment of Tricuspid Regurgitation: Which Patients and What Devices?
Samir Kapadia, MD

10:40 am  How Does the Sonographer Acquire Quality Data for the Tricuspid Valve and Right-Sided Chambers?
Anne Campbell, RDCS

11:00 am  Panel Discussion – Q/A
Moderator: Jose Navia, MD
Anne Campbell, RDCS; Robert J. Cubeddu, MD; Rebecca Hahn, MD; and Gosta Pettersson, MD, PhD

Controversies in Aortic Valve Disease

Moderators: Allan L. Klein, MD, and Robert J. Siegel, MD

Debate: TAVR will Replace SAVR in Low and Moderate Risk Aortic Stenosis Patients

11:20 am  Pro: Rebecca Hahn, MD

11:35 am  Con: Gosta Pettersson, MD, PhD

11:50 am  Rebuttal: Rebecca Hahn, MD

12:00 pm  Rebuttal: Gosta Pettersson, MD, PhD

12:10 pm Discussion

Simultaneous Sessions

12:20 pm  How-to-Do Session B: Strain and Diastology Implementation and Interpretation
Moderators: Anne Campbell, RDCS; Patrick Collier, MD, PhD; and Sherif Nageuh, MD

This how-to session reviews a step-by-step approach to the assessment and interpretation of diastology in real cases. There will also be an opportunity for hands-on practice of strain analysis.
First-come, first-served. Capacity 25 participants.

12:20 pm  Case Workshop: Aortic Stenosis, Valve Thrombosis, Tricuspid Regurgitation, Right Ventricle and Contrast Cases
Moderator: Rhonda Miyasaka, MD
Robert J. Cubeddu, MD; Rebecca Hahn, MD; Samir Kapadia, MD; Gosta Pettersson, MD, PhD; and Robert J. Siegel, MD

1:30 pm  Adjourn
SUNDAY, MARCH 1, 2020

5:45 am  Continental Breakfast and Visit Exhibits

6:00 am  Hot Topic and Breakfast with Faculty: Open Discussion on Diastology and Strain

SESSION 5
DIASTOLIC FUNCTION EVALUATION
Moderators: L. Leonardo Rodriguez, MD, and Sherif Nageuh, MD

7:00 am  Physiology of Left Ventricular Diastolic Function: Is it Really That Complicated? Sherif Nageuh, MD

7:20 am  Estimating LV Filling Pressures with Doppler Echo and Hemodynamics Partho Sengupta, MD

7:40 am  Diastolic Function: How to Handle Indeterminate and Difficult Cases from a Sonographer Perspective Amy Dillenbeck, RDCS

8:00 am  Diastology Guidelines: State of the Art Sherif Nageuh, MD

8:20 am  Cardiac Amylodosis: What is New in 2020? Allan L. Klein, MD

8:40 am  Panel Discussion – Q/A Moderator: Allan L. Klein, MD
Amy Dillenbeck, RDCS; Sherif Nageuh, MD; and Partho Sengupta, MD

9:00 am  Refreshment Break and Visit Exhibits

SESSION 6
MYOCARDIAL AND PERICARDIAL DISEASES
Moderators: Patrick Collier, MD, PhD, and Partho Sengupta, MD

9:20 am  How to Differentiate Athlete’s Heart from Non-obstructive Hypertrophic Cardiomyopathy – Management Pearls Craig Asher MD

9:40 am  Cardio-Oncology: A Practical Perspective Patrick Collier, MD, PhD

9:55 am  Radiation Associated Cardiac Disease: The Role of Multimodality Imaging Christine Jellis, MD, PhD

10:10 am  Complicated Pericarditis: A Paradigm Shift of Treatment Allan L. Klein, MD

10:25 am  Artificial Intelligence: Is this Going to Help the Clinician? Partho Sengupta, MD

10:40 am  Contrast Echo for the Assessment of Cardiac Structure and Function Amy Dillenbeck, RDCS

11:00 am  Panel Discussion – Q/A Moderator: Allan L. Klein, MD
Patrick Collier, MD, PhD; Amy Dillenbeck, RDCS; Christine Jellis, MD, PhD; and Partho Sengupta, MD

Controversies in Cardiac Imaging
Moderators: Patrick Collier, MD, PhD, and Allan L. Klein, MD

Debate: Strain Will Replace EF in Evaluation of Heart Disease

11:20 am  Pro: Partho Sengupta, MD

11:35 am  Con: Sherif Nageuh, MD

11:50 am  Rebuttal: Partho Sengupta, MD

12:00 pm  Rebuttal: Sherif Nageuh, MD

12:10 pm  Discussion

12:20 pm  Case Presentations – Constriction, Restriction, Complicated Pericarditis, Cardio-Oncology, Contrast Echo Moderator: Christine Jellis, MD, PhD
Robert J. Cubeddu, MD; Allan L. Klein, MD; Sherif Nageuh, MD; L. Leonardo Rodriguez, MD; and Partho Sengupta, MD

1:00 pm  Questions and Answers

1:30 pm  Adjourn

A five-minute question and answer period is included in each speaker’s allotted time.
GENERAL INFORMATION

Location
Diplomat Beach Resort
3555 South Ocean Drive
Hollywood, Florida, 33019
954.602.6000
855-689-2911 (Reservations Department)

Resort Information
Voted one of the top 10 resorts in Florida by Condé Nast Traveler Choice Awards 2018, The Diplomat Beach Resort is ideally situated between Miami and Fort Lauderdale along Hollywood’s Gold Coast.

Soak up the breezy South Florida lifestyle at a hotel playground by the sea. The hotel oceanfront resort features two beachside pools, Kids’ Club, Dip & Slide Waterpark, and a private beach with an array of water sport options such as jet skiing, kayaking, and paddle boarding.

Enjoy family friendly activities while you are in Florida. Take the trolley downtown to historic culture and museums, while a water taxi ride will take you to Fort Lauderdale attractions. Everglades National Park is only 30 minutes away.

Stroll along the historic Hollywood Boardwalk, or explore Fort Lauderdale’s Las Olas Boulevard or Miami’s South Beach Art Deco District on Lincoln Road. World-class shopping is available at Aventura Mall and Bal Harbour Shops.

Hotel Accommodations
A limited number of rooms have been reserved at the Diplomat until Tuesday, January 21, 2020. Rooms are $359 per night plus tax and are on a first-come, first-served basis so hurry to reserve yours now! The hotel will extend this discount to 3 days before and after the conference so you and your family can enjoy your trip!

To reserve a room, contact the hotel at 855-689-2911 and identify yourself with the Cleveland Clinic or go online at www.ccfcme.org/ValveHotel

Information
For further information about this activity, contact the Cleveland Clinic Center for Continuing Education.
Website: ccfcme.org/echo
Local: 216.448.8710

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

The Cleveland Clinic Foundation Center for Continuing Education designates:
- Summit live activity for a maximum of 20.75 AMA PRA Category 1 Credits™.
- Optional Learning Lab live activity for a maximum of 2.0 AMA PRA Category 1 Credits™.

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’s Maintenance of Certification
Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to:
- 20.75 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for the Summit.
- 2.0 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for the optional Learning Lab.

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.

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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