

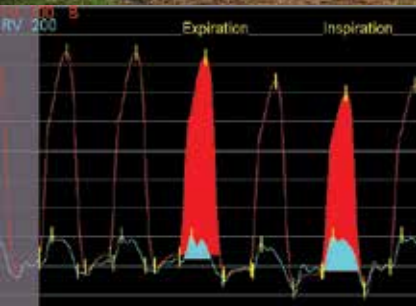
# Valve Disease and Diastology Summit

March 4 – 6, 2017

Eden Roc Hotel | Miami Beach, FL

Register Today! [ccfcme.org/echo17](http://ccfcme.org/echo17)

Reduced Fees for  
Sonographers



# Join us at the Valve Disease and Diastology Summit

## OVERVIEW

The Cleveland Clinic Valve Disease 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. The Summit will provide a unique opportunity to receive updates in new and emerging topics related to imaging techniques, including three dimensional echocardiography, strain imaging, and echo guidance of transcatheter therapies. We will discuss the clinical indications for structural interventions and surgery, as well as the merits and goals of medical management. You will have the opportunity to interact with key opinion leaders in the field.

## BY ATTENDING, YOU WILL BE ABLE TO:

- Diagnose the severity, mechanism, etiology, and management of common and uncommon valve diseases such as aortic stenosis, mitral regurgitation, aortic regurgitation, prosthetic dysfunction, and tricuspid valve disorders
- Assess the most recent innovations in structural valve interventions and describe their clinical use
- Translate guideline criteria on imaging into current decision-making regarding structural valve interventions and surgical valve repair and replacement
- Describe clinical methods to diagnose diastolic dysfunction and manage disorders such as heart failure with normal ejection fraction, pericardial constriction, amyloid heart disease, and pericardial tamponade
- Provide updates on new and emerging topics related to imaging techniques including 3D echocardiography, strain imaging, and echo guidance of transcatheter therapies
- Utilize echocardiographic imaging for imaging before, during, and after procedures, including transcatheter valve replacement, closure of periprosthetic leaks, septal defect closure, and edge-to-edge mitral repair
- Demonstrate how to use 3D echo and strain imaging to assess diastolic function and valve disease
- 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

**William J. Stewart, MD, FACC, FASE**

Director, Cardiovascular Curriculum

Professor of Medicine

Cleveland Clinic Lerner College of Medicine of Case Western Reserve University

Heart and Vascular Institute

Cleveland Clinic

### SUMMIT CO-DIRECTOR

**Allan L. Klein, MD, FRCP(C), FACC, FAHA, FASE**

President, American Society of Echocardiography

Director, Pericardial Center

Department of Cardiovascular Medicine

Heart and Vascular Institute

Cleveland Clinic

## CLEVELAND CLINIC FACULTY

### Department of Cardiovascular Medicine Heart and Vascular Institute

**Deborah A. Agler, ACS, RDCS, FASE**  
Coordinator of Education and Training for  
Cardiovascular Imaging

**Craig R. Asher, MD, FACC, FASE**  
Cleveland Clinic Florida

**Brian Griffin, MD, FACC**  
Section Head  
Cardiovascular Medicine

**Amar Krishnaswamy, MD**  
Cardiovascular Medicine

**Deborah Kwon, MD**  
Diagnostic Radiology

**Stephanie Mick, MD**  
Thoracic and Cardiovascular Surgery

**Gian M. Novaro, MD, FACC, FASE**  
Director, Echocardiography Laboratory  
Cleveland Clinic Florida

## GUEST FACULTY

**Linda Gillam, MD, MPH, FACC, FASE, FESC**  
Chair, Cardiovascular Medicine  
Morristown Medical Center/Atlantic  
Health System  
Morristown, NJ

**G. Burkhard Mackensen, MD, PhD**  
Professor and Chief, Department of  
Anesthesiology and Pain Medicine  
Division of Cardiothoracic Anesthesia  
University of Washington  
Seattle, WA

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

**David Rubenson, MD**  
Cardiologist, Echo Lab Director  
Scripps Clinic  
La Jolla, CA

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## REGISTER ONLINE AT [ccfcme.org/echo](http://ccfcme.org/echo)

### Fees

**Fee includes:** Continental breakfasts, refreshment breaks, and online syllabus in PDF format

	On or Before January 6, 2017	After January 6, 2017
Physician	\$875	\$975
ASE Physician	\$700	\$800
Non Physician/Resident*/Fellow*	\$500	\$600
ASE Non Physician/Resident*/Fellow*	\$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.

Visit [www.ccfcme.org/echo](http://www.ccfcme.org/echo) for complete registration information.

### Registration and Cancellation

Preregistrations are accepted until 2:00 pm ET March 3, 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 canceled by February 3, 2017. After February 3, 2017, a \$100 cancellation fee will be deducted from your refund. No refunds will be issued after February 24, 2017.

For questions about registration or cancellation, email us at [cmeregistration@ccf.org](mailto: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

### SATURDAY, MARCH 4, 2017

6:15 am Registration, Continental Breakfast, and Visit Exhibits

#### Valve Disease: Focus on Aortic Stenosis

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

7:00 am **State of the Art: Severe Aortic Stenosis – When AVR?**  
*David Rubenson, MD*

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

7:40 am **Dynamics of the Heart Team Approach to TAVR**  
*Stephanie Mick, MD*

8:00 am **Assessments for Transcatheter Aortic Valve Replacement: 3D Echo and CT**  
*Deborah Kwon, MD*

8:20 am **Moving Toward TAVR in Lower Risk Groups**  
*Amar Krishnaswamy, MD*

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

9:00 am **Panel Discussion (Questions and Answers)**  
Moderators: *Linda Gillam, MD, MPH*, and *Gian M. Novaro, MD*  
*Amar Krishnaswamy, MD*  
*Deborah Kwon, MD*  
*Stephanie Mick, MD*  
*David Rubenson, MD*

9:20 am **Break and Visit Exhibits**

10:00 am **Intraprocedural Echo in Surgical and Transcatheter AVR**  
*G. Burkhard Mackensen, MD, PhD*

10:20 am **Ascending Aortic Dilation and Bicuspid Valves and Others**  
*Gian M. Novaro, MD*

10:40 am **Paradoxical or Not: Low Flow, Low Gradient Aortic Stenosis (AS)**  
*William J. Stewart, MD*

11:00 am **Transcatheter Procedures – What to do When the Awful Happens**  
*Amar Krishnaswamy, MD*

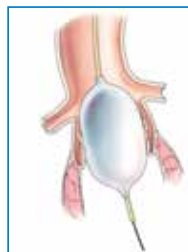
11:20 am **Thoracic Aortic Disease – When CT, MR, TTE, TEE?**  
*Deborah Kwon, MD*

11:40 am **Dobutamine Echo in Aortic Stenosis – Methods and Impact on Management**  
*Brian Griffin, MD*

12:00 pm **Panel Discussion (Questions and Answers)**  
Moderators: *Allan L. Klein, MD*, and *Deborah Kwon, MD*  
*Brian Griffin, MD*  
*Amar Krishnaswamy, MD*  
*G. Burkhard Mackensen, MD, PhD*  
*Gian M. Novaro, MD*  
*William J. Stewart, MD*

12:30 pm **Case-Based Workshop: Choosing Between TAVR and SAVR for AS**  
*Deborah A. Agler, RDCS*  
*Craig R. Asher, MD*  
*Sherif Nagueh, MD*

1:30 pm **Adjourn**

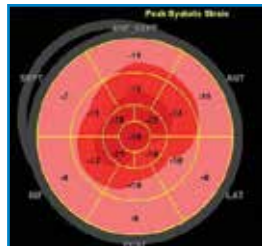


## SUNDAY, MARCH 5, 2017

6:30 am Continental Breakfast and Visit Exhibits

### Diastolic Dysfunction and Right Heart Function

Moderators: *Allan L. Klein, MD*, and  
*G. Burkhard Mackensen, MD, PhD*



7:00 am **State of the Art: American Society of Echo Guidelines Diastology 2017 Update**  
*Sherif Nagueh, MD*

7:20 am **What are Limitations and Pitfalls in Assessing Diastolic Function?**  
*Brian Griffin, MD*

7:40 am **Estimating LV Filling Pressures with Doppler**  
*Deborah Kwon, MD*

8:00 am **Constriction and Amyloid: Assessing Severity of Diastolic Dysfunction**  
*Allan L. Klein, MD*

8:20 am **Diastolic Dysfunction in Hypertrophic Cardiomyopathy**  
*Craig R. Asher, MD*

8:40 am **Hemodynamics in Diastolic Dysfunction/Constriction: When to Cath?**  
*Sherif Nagueh, MD*

9:00 am **Which Diastologic Function Parameters Do We Really Use in Clinical Practice?**  
*William J. Stewart, MD*

9:20 am **Panel Discussion (Questions and Answers)**  
Moderators: *Brian Griffin, MD*, and *Deborah Kwon, MD*  
*Craig R. Asher, MD*  
*Allan L. Klein, MD*  
*Sherif Nagueh, MD*  
*William J. Stewart, MD*

9:50 am Break and Visit Exhibits

10:20 am **Managing the Stiff LV in the OR and ICU**  
*G. Burkhard Mackensen, MD, PhD*

10:40 am **Athlete's Heart or Non-obstructive Hypertrophic Cardiomyopathy**  
*Craig R. Asher, MD*

11:00 am **Muscle Mechanics in Pericardial Disease**  
*Allan L. Klein, MD*

11:20 am **Evaluation of Right Heart Function**  
*Linda Gillam, MD, MPH*

11:40 am **Tricuspid Anatomy – Fate of the Ignored TV**  
*David Rubenson, MD*

12:00 pm **Tricuspid Regurgitation: Repair, Replace, or Delay? How are the Results?**  
*Stephanie Mick, MD*

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

12:40 pm **Panel Discussion (Questions and Answers)**  
Moderators: *Amar Krishnaswamy, MD*, and *Sherif Nagueh, MD*  
*Deborah A. Agler, RDCS*  
*Craig R. Asher, MD*  
*Linda Gillam, MD, MPH*  
*Allan L. Klein, MD*  
*G. Burkhard Mackensen, MD, PhD*  
*Stephanie Mick, MD*  
*David Rubenson, MD*

1:10 pm **Case-based Workshop: Differentiating Constriction, Restriction, and Tricuspid Regurgitation, Contrast Cases**  
*Deborah Kwon, MD*  
*G. Burkhard Mackensen, MD, PhD*  
*David Rubenson, MD*

2:00 pm Adjourn



## MONDAY, MARCH 6, 2017

6:30 am Continental Breakfast and Visit Exhibits

### Valve Regurgitation, 3D Echo, and Strain

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

7:00 am **State of the Art: Quantitating Regurgitation – Vena Contracta, Orifice Area in MR or AR**  
*Linda Gillam, MD, MPH*

7:20 am **Aortic Regurgitation: Medicine or Surgery?**  
*Brian Griffin, MD*

7:40 am **Surgery for Ischemic/Functional Mitral Regurgitation – Who, Who-Not, and When?**  
*Stephanie Mick, MD*

8:00 am **Asymptomatic Severe Mitral Regurgitation**  
*William J. Stewart, MD*

8:20 am **Exercise Testing in Mitral or Aortic Regurgitation**  
*David Rubenson, MD*

8:40 am **Mitraclip – Procedural Image Guidance with TEE: Is Three Dimensional (3D) Echo Necessary?**  
*G. Burkhard Mackensen, MD, PhD*

9:00 am **Transcatheter Mitral Replacement and Paravalvular Leak Closure**  
*Amar Krishnaswamy, MD*

9:20 am **Panel Discussion (Questions and Answers)**  
Moderators: *Amar Krishnaswamy, MD, and David Rubenson, MD*  
*Linda Gillam, MD, MPH*  
*Brian Griffin, MD*  
*G. Burkhard Mackensen, MD, PhD*  
*Stephanie Mick, MD*  
*William J. Stewart, MD*

9:50 am **Break and Visit Exhibits**

10:20 am **Incorporating 2D and 3D Strain in Echo Lab Routine**  
*Deborah A. Agler, RDCS*

10:40 am **Myocardial Mechanics: Strain and Torsion in Valve Disease**  
*Sherif Naghieh, MD*

11:00 am **LV Strain and Contrast in Pericardial Disease**  
*Allan L. Klein, MD*

11:20 am **3D Echo: A Practical Approach in Understanding Valve Dysfunction**  
*William J. Stewart, MD*

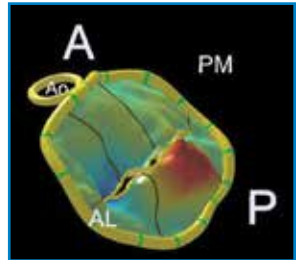
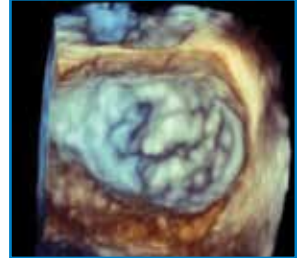
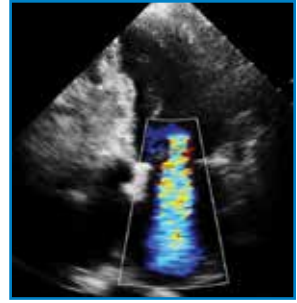
11:40 am **LV Strain in Cardio-Oncology**  
*Craig R. Asher, MD*

12:00 pm **When Does Strain Imaging Influence Clinical Decisions?**  
*Deborah Kwon, MD*

12:20 pm **Panel Discussion (Questions and Answers)**  
Moderators: *Deborah A. Agler, RDCS, and Craig R. Asher, MD*  
*Allan L. Klein, MD*  
*Deborah Kwon, MD*  
*G. Burkhard Mackensen, MD*  
*Sherif Naghieh, MD*  
*William J. Stewart, MD*

12:45 pm **Case-based Workshop: Mitral Regurgitation – Medicine, Clip, or Surgery? Contrast Cases**  
*Linda Gillam, MD, MPH*  
*Brian Griffin, MD*  
*Amar Krishnaswamy, MD*

1:15 pm **Adjourn**



## GENERAL INFORMATION:

### Location

**Eden Roc Miami Beach**  
4525 Collins Avenue  
Miami Beach, FL 33140  
Phone: 305.531.0000 or 855.433.3676

### Hotel Accommodations

A limited block of rooms at has been reserved at the Eden Roc Miami Beach Hotel until February 7, 2017.

Make your reservations online at [www.ccfcmec.org/EdenRocHotel](http://www.ccfcmec.org/EdenRocHotel) or contact the hotel at 305.531.0000 and identify yourself as an attendee for the Cleveland Clinic Valve Disease and Diastology Summit for a special group rate of \$345, plus tax and daily resort fee.

### Miami Beach Visitor Information

Beyond enjoying the radiant sun, sea, and sand, discover Miami Beach's rich history as an entertainment and cultural destination. From world-famous art deco architecture to renowned restaurants, there's so much going on in Miami Beach.

Visit the Miami Beach website to learn where to go: [www.miamiandbeaches.com](http://www.miamiandbeaches.com)

### Information

For further information, contact the Cleveland Clinic Center for Continuing Education at 216.444.9990 or check our website for details: [ccfcmec.org/echo](http://ccfcmec.org/echo)

### 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 18 *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.

### 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.

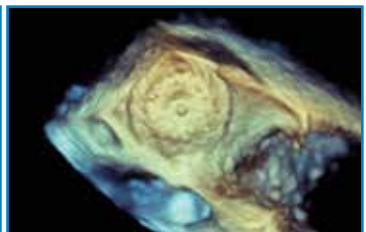
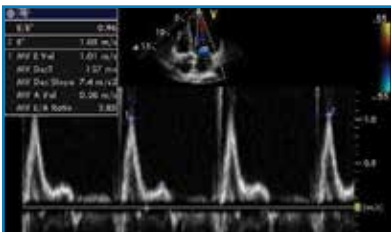
### Faculty Disclosure

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.

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Valve Disease and Diastology Summit is offered in cooperation with the American Society of Echocardiography



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## Emphasis on

- Valve Disease:  
Focus on  
Aortic Stenosis
- Diastolic  
Dysfunction  
and Right  
Heart Function
- Valve Regurgitation,  
3D Echo,  
and Strain

