

# A Case Based Approach to Mastering the Aortic Valve: Imaging, Innovation, and Intervention

December 15-16, 2023

InterContinental New York Barclay  
New York, NY



Register Today!  
[www.ccfcmec.org/AorticValve](http://www.ccfcmec.org/AorticValve)

# Overview

Aortic valve assessment, diagnosis, and treatment are rapidly evolving disciplines highlighted by innovations in techniques, devices, and imaging. These developments have altered the clinical practice framework for approaching aortic disease quantification and treatments resulting in some confusion regarding the best management strategies. Further, the volume and complexity of the published data make it difficult for busy practitioners to remain up to date on their knowledge and practice. This educational activity will provide key insights into how to achieve excellent outcomes through best practice management and the selection and execution of surgical and interventional techniques.

## By attending, participants will be able to:

- Recognize the impacts, differences in symptom presentation, and clinical significance of aortic stenosis in women.
- Apply current guidelines and recommend best practices for aortic valve disease in clinical practice
- Recognize challenges in hemodynamic assessment of aortic valve disease and assess strengths and limitations of various assessment modalities
- Navigate management and ethical dilemmas in the management of elderly and highly medically complex patients with aortic valve disease
- Summarize the emerging innovations in technologies for TAVR along with results in clinical trials and describe their potential implications for clinical practice.
- Discuss the risks and management of post interventional complication

## Who Should Attend?

This course is intended for cardiothoracic surgeons, cardiologists, interventional cardiologists, internists, nurses, physician assistants, and all health care professionals involved in the evaluation, diagnosis and/or management of patients.

# Faculty

## Cleveland Clinic Course Directors

### Lars G. Svensson, MD, PhD

Chairman, Miller Family Heart, Vascular & Thoracic Institute

### Milind Desai, MD, MBA

Director, Clinical Operations

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Brian Griffin, MD

Section Head, Cardiovascular Imaging

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Samir Kapadia, MD

Chairman, Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Katherine J. Hoercher, RN, FACC, FAHA

Senior Director

Miller Family Heart, Vascular & Thoracic Institute Administration

## Guest Faculty

### Patrick T. O'Gara, MD

Director, Strategic Planning

Division of Cardiovascular Medicine

Brigham and Women's Hospital

Boston, MA

### Martin Leon, MD

Mallah Family Professor of Cardiology

Director, Columbia Interventional Cardiovascular Care

Columbia University Medical Center

New York, NY

### Vinod H. Thourani, MD

Piedmont Heart Institute

Piedmont Healthcare

Atlanta, GA

## Cleveland Clinic Faculty

### Leslie Cho, MD

Director, Cleveland Clinic Women's Cardiovascular Center

Section Head, Preventative Cardiology and Chief Quality Officer

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Christine Jellis, MD, PhD

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Marijan Koprivanac, MD

Department of Thoracic and Cardiovascular Surgery

Miller Family Heart, Vascular & Thoracic Institute

### Amar Krishnaswamy, MD

Section Head, Invasive & Interventional Cardiology

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Grant Reed, MD, MSc

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### L. Leonardo Rodriguez, MD

Tomsich Department of Cardiovascular Medicine

Miller Family Heart, Vascular & Thoracic Institute

### Nicholas Smedira, MD, MBA

Department of Thoracic and Cardiovascular Surgery

Miller Family Heart, Vascular & Thoracic Institute

### Shinya Unai, MD

Department of Thoracic and Cardiovascular Surgery

Miller Family Heart, Vascular & Thoracic Institute

# Agenda

Friday, December 15, 2023

7:00 am Registration & Continental Breakfast

8:00 am Welcome and Announcements  
*Lars G. Svensson, MD, PhD*

**Session 1:**  
**A contemporary overview of aortic valve disease 2023**  
*Moderators: Brian Griffin, MD, and Lars G. Svensson, MD, PhD*

8:10 am Contemporary trends in aortic valve disease management: Guidelines and clinical practice  
*Patrick O'Gara, MD*

8:25 am Valvular heart disease in women: Are there gender differences in outcomes after SAVR and TAVR?  
*Leslie Cho, MD*

8:40 am Evaluation of surgical and interventional risk: Key points for shared decision making  
*Vinod Thourani, MD*

8:55 am **Case Presentation:**  
**Low-risk severe AS in a 55 year old**  
*L. Leonardo Rodriguez, MD*

9:00 am **Clinical/imaging cardiologist: Key clinical and multimodality imaging steps in work up and decision making**  
*Milind Desai, MD, MBA*

9:10 am **Surgical role: Current data to justify SAVR**  
*Vinod Thourani, MD*

9:20 am **Interventional: Current data to justify interventional, low risk TAVR trials: How do we use the new findings?**  
*Samir Kapadia, MD*

9:30 am **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

9:45 am Break

**Session 2:**  
**Difficult scenarios in aortic valve disease, part 1**  
*Moderators: Christine Jellis, MD, PhD, and Nicholas Smedira, MD, MBA*

10:00 am **Case Presentation:**  
**Stenotic bicuspid aortic valve in an octogenarian**  
*Christine Jellis, MD, PhD*

10:05 am **Clinical Cardiologist: Assessing frailty and fertility, multimodality imaging, concomitant aortopathy**  
*Milind Desai, MD, MBA*

10:15 am **Interventional: Association of BAV anatomy with TAVR outcomes**  
*Amar Krishnaswamy, MD*

10:25 am **Surgeon: Role of surgery and contemporary outcomes**  
*Marijan Koprivanac, MD*

10:35 am **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

10:50 am **Case Presentation:**  
**Low flow - low gradient AS**  
*Brian Griffin, MD*

10:55 am **Cardiologist: Image guidance technologies and the team approach to SHD interventions in the OR and Cath Lab**  
*L. Leonardo Rodriguez, MD*

11:05 am **Interventional Cardiologist: Current state of the art data PLUS echo/cath discordance**  
*Samir Kapadia, MD*

11:15 am **Surgeon: The benefit of surgical intervention in low flow, low gradient severe aortic stenosis**  
*Marijan Koprivanac, MD*

11:25 am **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

11:40 am **Case Presentation:**  
**Aortic valve endocarditis**  
*Brian Griffin, MD*

11:45 am **Clinical/Imaging Cardiologist: Role of multimodality imaging and clinical work up**  
*Christine Jellis, MD, PhD*

11:55 am **Surgeon: What surgical options would I consider?**  
*Shinya Unai, MD*

12:05 pm **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

12:20 pm Lunch

12:50 pm **TAVR: Past, Present and Future Fireside Chat**  
*Lars G. Svensson, MD, PhD, and Martin Leon, MD*

**Session 3:**  
**Difficult scenarios in aortic valve disease, part 2**  
*Moderators: Milind Desai, MD, MBA, and L. Leonardo Rodriguez, MD*

1:20 pm **Case Presentation:**  
**Radiation heart disease with aortic valve involvement**  
*Christine Jellis, MD, PhD*

1:25 pm **Clinical Cardiologist: Diagnosis and management**  
*Milind Desai, MD, MBA*

1:35 pm **Interventional options**  
*Amar Krishnaswamy, MD*

1:45 pm **Surgical options**  
*Shinya Unai, MD*

1:55 pm **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

2:10 pm **Case Presentation:**  
**Young patient with connective tissue disorder with enlarged aortic root: LDS vs. Marfan Syndrome**  
*Milind Desai, MD, MBA*

2:15 pm **Clinical/Imaging: Work up of these patients: Current guidelines**  
*Brian Griffin, MD*

2:25 pm **Surgical management**  
*Lars G. Svensson, MD, PhD*

2:35 pm **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*

2:50 pm Break

**Session 4:****Aortic regurgitation in the modern era**Moderators: *Lars G. Svensson, MD, PhD, and Brian Griffin, MD*

- 3:10 pm**    **Case Presentation:**  
**Patient with severe AI**  
*Brian Griffin, MD*
- 3:15 pm**    **Clinical/Imaging: Multimodality imaging work up and modern reappraisal of guidelines**  
*L. Leonardo Rodriguez, MD*
- 3:25 pm**    **Intervention: Treatment of AI using TAVR systems**  
*Grant Reed, MD*
- 3:35 pm**    **Surgeon: Aortic valve regurgitation: When to repair vs. Ross vs. replace with root management?**  
*Lars G. Svensson, MD, PhD*
- 3:45 pm**    **What happened to the patient and Panel discussion/Q&A**

**Session 5:****Management of concomitant LVOT obstruction (HOCM, subaortic membrane)**Moderators: *Shinya Unai, MD, and Milind Desai, MD, MBA*

- 4:00 pm**    **Case Presentation:**  
**HOCM case with LVOT obstruction**  
*Milind Desai, MD, MBA*
- 4:05 pm**    **Cardiologist: Diagnosis and medical management**  
*Milind Desai, MD, MBA*
- 4:15 pm**    **Surgeon: Myectomy and membrane resection with concomitant AV**  
*Nicholas Smedira, MD, MBA*
- 4:25 pm**    **Interventional: Septal ablation**  
*Amar Krishnaswamy, MD*
- 4:35 pm**    **What happened to the patient and Panel discussion/Q&A**  
*All session faculty*
- 4:50 pm**    **Adjourn Day 1**

# Saturday, December 16, 2023

**Session 1:****New data in aortic valve diagnosis and management over the last two years**Moderators: *Samir Kapadia, MD, and Grant Reed, MD*

- 8:00 am**    **My most important Clinical papers in aortic valve**  
*Martin Leon, MD*
- 8:10 am**    **My most important Interventional papers in aortic valve**  
*Amar Krishnaswamy, MD*
- 8:20 am**    **The most important aortic valve papers from Cleveland Clinic**  
*Marijan Koprivanac, MD*

**Session 2:****The Crystal Ball: What will be the critical steps in management of aortic valve disease over the next few years?**Moderators: *Amar Krishnaswamy, MD, and Grant Reed, MD*

- 8:30 am**    **Clinical information and management: Beyond the Index Procedure – Upstream and downstream therapies**  
*Milind Desai, MD, MBA*
- 8:40 am**    **Interventional techniques and trials**  
*Samir Kapadia, MD*

**8:50 am**    **Surgical trials and techniques***Marijan Koprivanac, MD***9:00 am**    **Panel discussion/Q&A***All session faculty***Session 3: Heart failure with AI and AS**Moderators: *Brian Griffin, MD, and Christine Jellis, MD, PhD*

- 9:15 am**    **Managing HF in AS with multivalve disease**  
*Wael Jaber, MD*
- 9:30 am**    **Aortic stenosis and heart failure: TAVR UNLOAD**  
*Martin Leon, MD*
- 9:45 am**    **Case Presentation:**  
**Cardiogenic shock presenting to CICU**  
*Christine Jellis, MD, PhD*
- 9:50 am**    **Critical care cardiology assessment and decision making**  
*Leslie Cho, MD*

**10:00 am**    **Interventional: TAVR in cardiogenic shock***Amar Krishnaswamy, MD***10:10 am**    **Surgical: Any role for surgery or MCS?***Nicholas Smedira, MD, MBA***10:20 am**    **What happened to the patient and Panel discussion/Q&A***All session faculty***10:35 am**    **Break****Session 4:****Managing post-interventional issues, rapid fire**Moderators: *Brian Griffin, MD, and Martin Leon, MD*

- 10:55 am**    **Importance of prosthesis-patient mismatch after TAVR: Definitions, incidence and clinical relevance**  
*L. Leonardo Rodriguez, MD*
- 11:05 am**    **Planning for TAV-in-TAV: Technical considerations and long term risks**  
*Amar Krishnaswamy, MD*
- 11:15 am**    **Optimal anti-thrombotic therapy after TAVR: Updates and controversies**  
*Grant Reed, MD*

**11:25 am**    **Panel Discussion and Q&A****11:40 am**    **Predictors of pacemaker dependency***Samir Kapadia, MD***11:50 am**    **Impella insertion as a bailout management in TAVR complications***Grant Reed, MD***12:00 pm**    **Cerebral embolic protection during TAVR: what does the data support?***Samir Kapadia, MD***12:10 pm**    **Management of paravalvular leaks after SAVR and TAVR***Grant Reed, MD***12:20 pm**    **Recurrent HF after SAVR or TAVR: Causes and management***Milind Desai, MD, MBA***12:30 pm**    **Panel discussion / Q&A***All session faculty***12:45 pm**    **Adjourn**

# General Information

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

Website: [ccfme.org/AorticValve](https://ccfme.org/AorticValve)

Phone: 216.444.9990

## Location

InterContinental New York Barclay  
111 East 48th Street  
New York, NY 10017

## Hotel Accommodations

A limited block of rooms has been reserved at the InterContinental New York Barclay through November 21, 2023.

To make reservations, please visit <https://book.passkey.com/e/50528715>, or contact the hotel at 212-755-5900 and identify yourself as an attendee for the Cleveland Clinic Aortic Valve Conference for the special rate of \$419 per night, plus taxes and fees. Rooms booked under our block include the nightly amenity fee and guestroom WiFi.

Please see the hotel website: [icbarclay.com/faq](https://icbarclay.com/faq) for current information on parking

## Accreditation

In support of improving patient care, this activity has been planned and implemented by Cleveland Clinic Center for Continuing Education. Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## Credit Designation

### Physicians / American Medical Association (AMA)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 12.25 *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.

### American Board of Surgery (ABS)

Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to earn credit toward the CME of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS 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.

## Additional information

Please see the course website for information on study references, faculty disclosures, and the Americans with Disabilities Act.

## In-Person Course Registration Fee

Category – Live Course	On or before November 1	After November 2
Physician	\$595	\$695
Allied Health Professionals	\$300	\$400
Residents/Fellows	\$300	\$400
Corporate	\$1000	\$1000

**In-person registration fee includes:** continental breakfast, refreshment breaks, Friday lunch, and faculty presentations available in PDF format.

## Health and Safety Information

As participants are responsible for their own health choices, the use of masks by all participants at this event is optional. Additionally, attendees are not required to verify vaccination status nor to provide a negative COVID-19 test for entry. Please note this is subject to change based on the most recent status of CDC, local and/or state guidelines.

## Registration and Cancellation Information:

Preregistrations for the in-person event are accepted until 11:59 PM ET **Tuesday, December 12, 2023**. After Tuesday, December 12, please plan to register on-site at the course.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if canceled by November 15, 2023. After November 15, a \$99 cancellation fee will be deducted from your refund. No refunds will be issued after December 1, 2023.

For questions about registration or cancellation, email us at [CMERegistration@ccf.org](mailto:CMERegistration@ccf.org) or call 216.444.9990.

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 meeting cancellations or changes.

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**Cleveland Clinic**

The Cleveland Clinic Foundation  
9500 Euclid Avenue, JJ42  
Cleveland, OH 44195

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