

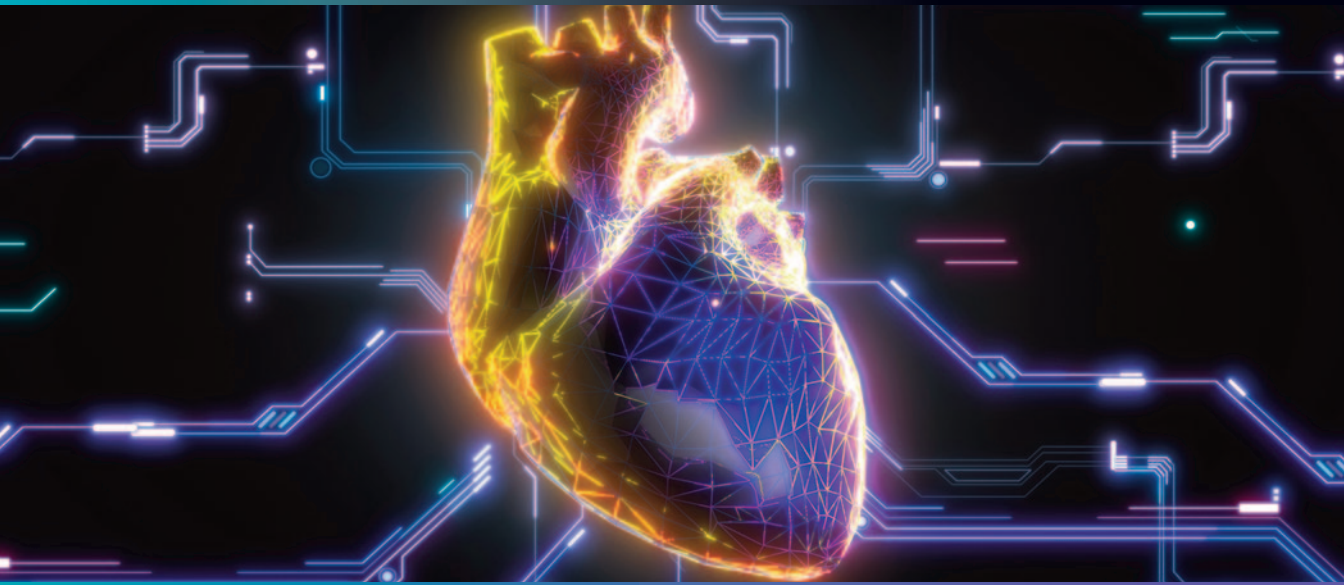


**Penn Medicine**

Continuing Medical and  
Interprofessional Education

**IN-PERSON AND VIRTUAL**

# Advanced Multimodality Cardiac Imaging Symposium



**Friday-Saturday, May 3-4, 2024**

**In-Person Meeting Location**

Arthur H. Rubenstein Auditorium at the  
Smilow Center for Translational Research  
3400 Civic Center Blvd.  
Philadelphia, PA 19104

IN COOPERATION WITH



**PENNSYLVANIA**  
CHAPTER

AMERICAN COLLEGE  
of CARDIOLOGY®



CME/CE-ACCREDITED CONFERENCE

<https://upenn.cloud-cme.com/CardiacImaging2024>

## PROGRAM OVERVIEW & TARGET AUDIENCE



The rapid growth of advanced cardiac imaging has led to significant developments in the diagnosis and management of a wide variety of cardiac diseases. Given the increasing utilization of multimodality imaging in cardiology, it is critical that clinicians, including physicians, nurses, nurse practitioners, and physician assistants, understand the applications, strengths, limitations, and areas for future research and development of advanced imaging in the care of patients with cardiac diseases. In this symposium, we will specifically address applications and advances in cardiac imaging in the following cardiac conditions: valvular heart diseases, aortopathies, cardiomyopathies, genetic heart diseases, coronary artery disease, and atrial and ventricular arrhythmias.

This conference is designed to engage cardiovascular specialists, surgeons, internists, radiologists, nurse practitioners, physician assistants, pharmacists, nurses, fellows, residents and students.

### LEARNING OBJECTIVES

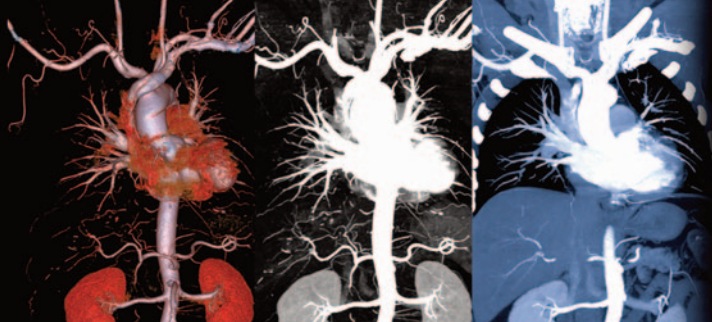
At the conclusion of this educational activity, the participant should be able to:

- Review the role of advanced imaging in the diagnosis of native valve disease, prosthetic valve disease, and aortopathies
- Discuss the application of echocardiography and computed tomography in transcatheter valve therapies
- Describe the role of echocardiography, cardiac MRI, and nuclear imaging in diagnosing cardiac amyloidosis, and understand diagnostic challenges
- Review the complementary role of nuclear imaging and cardiac MRI in diagnosing and monitoring cardiac sarcoidosis
- Describe the imaging features of hypertrophic cardiomyopathy and imaging phenocopies
- Explain the role of cardiac MRI in risk stratification of patients with hypertrophic cardiomyopathy
- Discuss the application of advanced cardiac imaging to guide septal reduction therapies and track response to novel treatments in patients with hypertrophic cardiomyopathy
- Review the utilization of noninvasive cardiac imaging for the evaluation of suspected or known coronary artery disease and for viability assessment
- Discuss the role of echocardiography, cardiac CT, and cardiac MRI in the evaluation and management of patients with atrial and ventricular arrhythmias

### HOSTING DEPARTMENT

The *Advanced Multimodality Cardiac Imaging Symposium* is hosted by the division of Cardiovascular Medicine at Penn Medicine.

# Advanced Multimodality Cardiac Imaging Symposium



## ACCREDITATION



In support of improving patient care, Penn Medicine 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.

## DESIGNATION OF CREDIT

**Physicians:** Penn Medicine designates this live activity for a maximum of 11.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



**ABIM MOC:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 11.0 *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.

**ABS MOC:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to earn 11.0 credits toward the CME and Self-Assessment requirements 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.

**Physician Assistants:** Penn Medicine has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 11.0 *AAPA Category 1 CME credits*. PAs should only claim credit commensurate with the extent of their participation.

**Nurses:** This program provides 11.0 NCPD hours.

**Certificates and Transcripts:** After the conference has concluded, all participants will receive a follow-up email with a link with instructions on how to claim their credit. Once participants submit the request for credit, the earned credits will be available for viewing on your transcript or available for printing at <https://upenn.cloud-cme.com>. Please note that the individual certificate will not be mailed.

## CANCELLATION POLICY

To process refunds for course withdrawals, cancellations must be received in writing by April 26, 2024 (subject to a service charge equivalent to 10% of the registration fee, but no less than \$25.00). No refunds will be issued thereafter. The University reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, the University will refund registration fees but is not responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, and travel agencies.

# Advanced Multimodality Cardiac Imaging Symposium



## LIVE AND VIRTUAL PRESENTATIONS

The *Advanced Multimodality Cardiac Imaging Symposium* will be held Friday-Saturday, May 3-4, 2024 by in-person or live-stream (virtual) attendance. The live and virtual presentations will follow the scheduled agenda in real time (EDT).

### TO ATTEND IN-PERSON:

#### Meeting Location

Arthur H. Rubenstein Auditorium at the Smilow Center for Translational Research, 3400 Civic Center Blvd., Philadelphia, PA 19104

#### Directions to Perelman Center for Advanced Medicine/Smilow Center for Translational Research:

The Arthur H. Rubenstein Auditorium at the Smilow Center for Translational Research is located on floor 1 of the Perelman Center for Academic Medicine, 3400 Civic Center Blvd. Philadelphia, PA. We strongly recommend you use GPS for exact directions to and from your starting point or if you prefer, take public transportation to and from campus, please visit <http://www.upenn.edu/services/transportation> for options.

**Parking:** 3600 Civic Center Parking Garage is open to those attending the conference. Parking is \$20 per day. On Saturdays, attendees can park at the Penn Museum Parking Garage, 3220 South Street, Philadelphia, PA. Cost per day for this garage is \$18. Parking fees will not be validated or reimbursed.

#### Overnight Accommodation within Walking Distance:

The Study at University City Hotel, 20 South 33rd Street, Philadelphia, PA 19104 • 215-387-1400

### TO ATTEND BY LIVE-STREAM (VIRTUAL):

Attendees who are registered and paid to attend virtually will receive an email by April 4, 2024 that includes the live stream link. The link will allow you to view the course, and submit questions to the faculty. All virtual attendees will be required to sign into the meeting using your first name, last name, and email address to be marked as attended and receive credit.

## VIRTUAL AND IN-PERSON REGISTRATION FEES

### IN-PERSON AND VIRTUAL ATTENDANCE:

Please register online at

<https://upenn.cloud-cme.com/CardiacImaging2024>

The fees to attend in-person or virtual are as follows: \$250 for physicians and industry attendees, \$75 for nurse practitioners, physician assistants, pharmacists, nurses and other healthcare professionals. \$75 for residents, fellows, students. Penn Medicine employees, faculty and staff may attend at no charge. A valid PennKey (Penn email address) must be used when registering to receive complimentary registration.

Registration includes access to view the presentations online for one year. Walk-ins are discouraged.

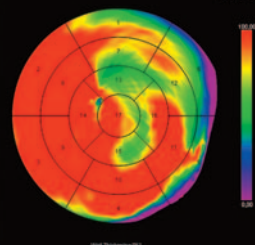
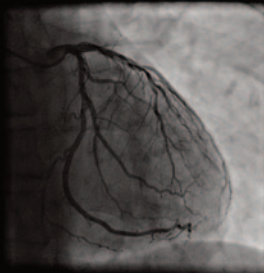
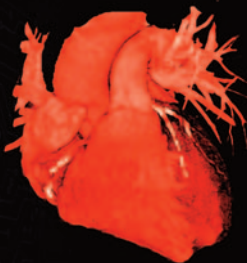
Please be sure to register in advance.

#### Attention Penn Medicine Staff!

Sign-in to register using your PennKey. Be sure to check your UPenn Cloud CME profile to be sure the email address listed in your profile matches your correct email address!

#### Need to Register by Mail?

**Please note:** mailed registrations may take more than 5-10 business days before they are received because we continue to experience longer delays in receiving mail. We encourage all attendees to register online. See the registration form for mailing instructions. All registrations will be confirmed by email if your registration is received by April 3, 2024. BE SURE TO CHECK YOUR SPAM BOX FOR EMAILS REGARDING THIS CONFERENCE.



Except for the Guest Faculty, the Course Directors & Faculty hold academic and/or clinical appointments from the Perelman School of Medicine at the University of Pennsylvania and Penn Medicine, Philadelphia, PA

## COURSE DIRECTORS

### **Marielle Scherrer-Crosbie, MD, PhD**

Professor of Medicine  
Director, Cardiac Ultrasound Laboratory  
Hospital of the University of Pennsylvania

### **Maresh K. Vidula, MD**

Assistant Professor of Clinical Medicine  
Division of Cardiovascular Medicine  
University of Pennsylvania

## GUEST FACULTY

### **Robert O. Bonow, MD**

Max and Lilly Goldberg Distinguished Professor  
of Cardiology  
Northwestern University, Feinberg School of Medicine  
Chicago, IL

### **Renee Bullock-Palmer, MD**

Director of Non-Invasive Cardiac Imaging  
Director of the Women's Heart Center  
Deborah Heart and Lung Center  
Browns Mills, NJ

### **Marcelo F. DiCarli, MD**

Dana-Farber Cancer Institute Seltzer Family  
Professor of Radiology and Medicine  
Associate Cardiologist and Radiologist  
Chief, Division of Nuclear Medicine and  
Molecular Imaging, Department of Radiology  
Executive Director, Cardiovascular Imaging Program  
Brigham and Women's Hospital, Harvard Medical School  
Boston, MA

### **Sharmila Dorbala, MD, MPH**

Professor of Radiology  
Director, Nuclear Cardiology  
Brigham and Women's Hospital, Harvard Medical School  
Heart and Vascular Center  
Boston, MA

### **Matthias Friedrich, MD**

Professor, Departments of Medicine and  
Diagnostic Radiology, Division of Experimental Medicine  
McGill University Health Centre (MUHC)  
Montreal, QC

### **Rebecca T. Hahn, MD**

Professor of Medicine  
Chief Scientific Officer of the Echo Core Lab  
at the Cardiovascular Research Foundation  
Director of Interventional Echocardiography  
at the Columbia Structural Heart & Valve Center  
Columbia University Irving Medical Center  
New York, NY

### **Yuchi Han, MD, MMSc**

Professor of Medicine  
Director of Cardiac Imaging  
Cardiovascular Medicine  
Wexner Medical Center, College of Medicine  
The Ohio State University  
Columbus, OH

### **Ron Jacob, MD, FACC, FASE, FSCCT, FSCMR**

Medical Director, Cardiovascular Imaging  
The Heart and Vascular Institute  
Wellspan Health  
York, PA

### **Harish Jarrett, MD**

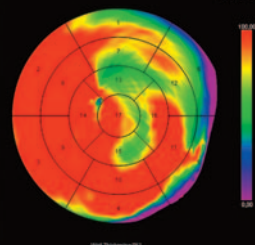
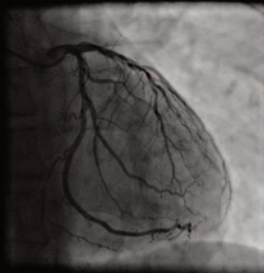
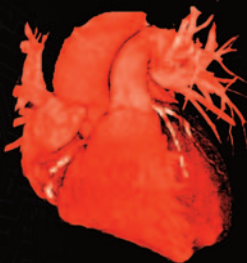
Consultant Cardiologist, Advanced Cardiac Imaging  
at Lankenau Heart Institute  
Main Line Health  
Wynnewood, PA

### **James Moon, MB, BCh, MRCP, MD**

Professor of Cardiology and Clinical Science  
Medical Director, Chenies Mews Imaging Center  
University College  
London, UK

# Advanced Multimodality Cardiac Imaging Symposium

## COURSE FACULTY



## GUEST FACULTY

### Michael H. Picard, MD

Professor of Medicine  
Past President American Society of Echocardiography  
Harvard Medical School  
Staff Cardiologist  
Massachusetts General Hospital  
Boston, MA

### Pravin V. Patil, MD

Professor, Medicine  
Director, Cardiovascular Disease Training Program  
Lewis Katz School of Medicine at Temple University  
Philadelphia, PA

### Muhammed Saric, MD, PhD

Professor of Medicine  
Director, Echocardiography Lab  
New York University  
New York, NY

### Geoff Tison, MD, MPH

Associate Professor of Medicine  
University of California  
San Francisco School of Medicine  
San Francisco CA

## PAACC REPRESENTATIVE

### Marietta Ambrose, MD, MPH, MEd FACC

President and Eastern Governor elect  
PA Chapter of the American College of Cardiology  
Associate Professor of Clinical Medicine,  
University of Pennsylvania & the Perelman School  
of Medicine at the University of Pennsylvania  
Philadelphia, PA

## PENN FACULTY

### Paco E. Bravo, MD\*

Assistant Professor of Radiology  
Director of Nuclear Cardiology and  
Cardiovascular Molecular Imaging

### Eunjung (Esther) Choi, MD

Assistant Professor of Clinical Medicine

### Neel Chokshi, MD, MBA

Associate Professor of Clinical Medicine  
Medical Director, Sports Cardiology and Fitness Program  
Director, Center for Digital Cardiology

### Rosemary DeRosa, PA-C\*

Physician Assistant

### Victor A. Ferrari, MD\*

Professor of Medicine and Radiology  
Chair, Penn Cardiovascular Imaging Council,  
Depts. of Medicine, Radiology, and  
Penn Cardiovascular Institute

### Nimesh D. Desai, MD, PhD

Associate Professor of Surgery  
Director, Thoracic Aortic Surgery Research Program  
Director, Penn Aorta Center

### Lee R. Goldberg, MD, MPH

Professor of Medicine  
Section Chief, Advanced Heart Failure and  
Cardiac Transplant  
Vice Chair, Medicine for Informatics

### Marie A Guerraty, MD, PhD

Assistant Professor of Medicine

### Keith Hemmert, MD

Assistant Professor of Clinical Emergency Medicine  
Medical Director, Emergency Department  
Associate Director, Fellowship in Emergency Medicine  
Leadership and Administration

### Ray Hu, MD, MS\*

Assistant Professor of Clinical Medicine

### Dinesh H. Jagasia, MBBS, FACC

Professor of Clinical Medicine  
Associate Director, Echo Lab

### Benedicte Lefebvre, MD\*

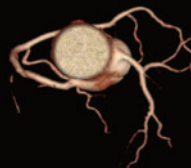
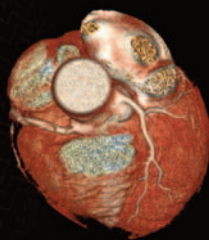
Assistant Professor of Clinical Medicine

### Harold I. Litt, MD, PhD\*

Professor of Radiology  
Division Chief, Cardiothoracic Imaging

# Advanced Multimodality Cardiac Imaging Symposium

## COURSE FACULTY



### **Nitin Malik, MD**

Assistant Professor of Clinical Medicine

### **Timothy Markman, MD**

Assistant Professor of Medicine

### **Amy Marzolf, NP\***

Nurse Practitioner

### **Saman Nazarian, MD, PhD**

Professor of Medicine

Director, Arrhythmia Imaging Research Laboratory

### **Anjali T. Owens, MD**

Associate Professor of Medicine

Medical Director, Center for Inherited Cardiac Disease

### **Nova Panebianco, MD, MPH**

Associate Professor of Emergency Medicine

EM Ultrasound Clerkship Director

Director of Emergency Ultrasound

### **Janice Pieretti, MD, FACC**

Associate Professor of Clinical Medicine

### **Frank E. Silvestry, MD**

Associate Professor of Medicine

Associate Chief for Education

Cardiovascular Division Director,

Cardiovascular Disease Fellowship Program

### **Daniel Soffer, MD**

Adjunct Assistant Professor of Medicine

### **Teresa Sue Wang, MD**

Assistant Professor of Clinical Medicine

### **Richard L. Weiss, MD\***

Director, Echocardiography

Penn Presbyterian Medical Center

### **Maria Cecilia Ziadi, MD**

Clinical Assistant Professor of Radiology

## CASE PRESENTERS

### **Henrietta Afari, MD**

Cardiovascular Fellow

### **Haya Aziz, MD**

Cardiovascular Fellow

### **Varun Bhasin, MD**

Cardiovascular Fellow

### **Chanel Jonas, MD, MS**

Cardiovascular Fellow

### **Amy Marzolf, CRNP, MSN**

Nurse Practitioner

### **Anika Ross, DO**

Cardiovascular Fellow

Lankenau Medical Center

Philadelphia PA

\*Planning Committee members in addition to the course director.

**DISCLOSURES** Penn Medicine, Office of Continuing Medical and Interprofessional Education, adheres to the *ACCME Standards for Integrity and Independence in Accredited Continuing Education*. Faculty disclosure information will be made available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products or devices within their presentations.



## AGENDA | FRIDAY, MAY 3, 2024

- 12:30 PM – 1:00 PM **In-person Registration**
- 12:45 PM – 1:00 PM **Virtual Attendee Sign-in**  
(Broadcast goes live at 1:00 pm)
- 1:00 PM – 1:05 PM **Welcome & Introductions**  
*Marielle Scherrer-Crosbie, MD, PhD and Mahesh K. Vidula, MD*

### **PART I CORONARY ARTERY DISEASE**

#### **NON-INVASIVE IMAGING FOR THE EVALUATION OF SUSPECTED OR KNOWN CAD**

- 1:05 PM – 1:10 PM **Case Presentation of (Complex) CAD Patient**  
*Varun Bhasin, MD*
- 1:10 PM – 1:20 PM **When to Consider Echocardiography**  
*Michael H. Picard, MD*
- 1:20 PM – 1:30 PM **Role of Coronary CT with FFR**  
*Harold Litt, MD, PhD*
- 1:30 PM – 1:40 PM **Why Should We Do More Stress CMR**  
*Matthias Friedrich, MD*
- 1:40 PM – 1:50 PM **SPECT vs. PET for the Evaluation of CAD**  
*Mahesh K. Vidula, MD*
- 1:50 PM – 2:05 PM **Panel Discussion/Q&A**

#### **CHEST PAIN EVALUATION IN THE EMERGENCY DEPARTMENT**

- 2:05 PM – 2:15 PM **Chest Pain Evaluation in the High Sensitivity Troponin Era**  
*Keith Hemmert, MD*
- 2:15 PM – 2:25 PM **When Should and Shouldn't Coronary CT be the Initial Test to Rule out CAD in the ED?**  
*Harish Jarrett, MD*
- 2:25 PM – 2:35 PM **Advantages and Disadvantages of Functional Stress Testing in the Assessment of Chest Pain in the ED**  
*Renee Bullock-Palmer, MD*
- 2:35 PM – 2:45 PM **Approach to Undifferentiated Chest Pain in the ED**  
*Nova Panebianco, MD*
- 2:45 PM – 3:00 PM **Panel Discussion/Q&A**
- 3:00 PM – 3:15 PM **Break**



## **PART II CORONARY ARTERY DISEASE**

### **EVALUATION OF SPECIAL POPULATIONS**

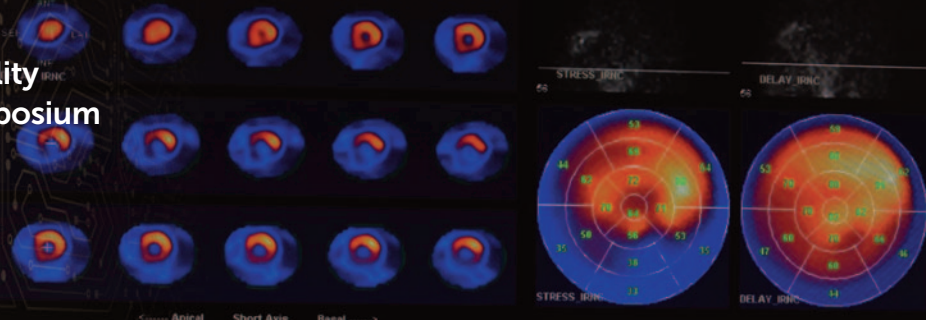
- 3:15 PM – 3:20 PM **Case Presentation of Special Populations**  
*Haya Aziz, MD*
- 3:20 PM – 3:30 PM **Patients with Anomalous Coronary Arteries**  
*Maria Cecilia Ziadi, MD*
- 3:30 PM – 3:40 PM **Asymptomatic High-Risk Patients**  
*Dan Soffer, MD*
- 3:40 PM – 3:50 PM **Chest Pain or Myocardial Ischemia in Patients With Non-Obstructive Coronary Arteries**  
*Marie Guerraty, MD, PhD*
- 3:50 PM – 4:00 PM **Evaluation of Chest Pain in Patients with Cardiomyopathies**  
*Paco E. Bravo, MD*
- 4:00 PM – 4:15 PM **Panel Discussion/Q&A**

### **VIABILITY ASSESSMENT**

- 4:15 PM – 4:25 PM **Clinical Scenarios to Consider Viability Assessment**  
*Robert O. Bonow, MD*
- 4:25 PM – 4:35 PM **Why CMR?**  
*Yuchi Han, MD*
- 4:35 PM – 4:45 PM **When and How to Use PET**  
*Marcelo F. DiCarli, MD*
- 4:45 PM – 5:00 PM **Panel Discussion/Q&A**
- 5:00 PM **Adjourn**

**SERVICES FOR THE DISABLED** If special arrangements are required for an individual with a disability to participate this meeting, please contact the Office of Continuing Medical and Interprofessional Education no later than April 26, 2024, at 215-898-6400.

**NONDISCRIMINATION STATEMENT** The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East Suite 228, Philadelphia, PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD). [www.upenn.edu/affirm-action](http://www.upenn.edu/affirm-action).



## AGENDA | SATURDAY, MAY 4, 2024

- 8:00 AM – 8:30 AM **In-person Sign-in**
- 8:15 AM – 8:30 AM **Virtual Attendee Sign-in**  
(Broadcast goes live at 8:30 am)

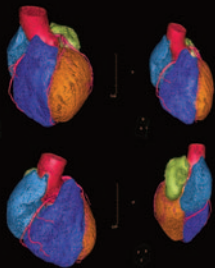
### **PART I VALVES: THE MITRAL AND TRICUSPID VALVES**

- 8:30 AM – 8:35 AM **Case Presentation: Mitral Valve**  
*Haya Aziz, MD*
- 8:35 AM – 8:45 AM **Imaging of Native Mitral Valve Dysfunction**  
*Pravin Patil, MD*
- 8:45 AM – 8:55 AM **Imaging of Prosthetic Mitral Valve Dysfunction**  
*Dinesh H. Jagasia, MBBS, FACC*
- 8:55 AM – 9:05 AM **Imaging Considerations for Mitral Valve Interventions**  
*Muhammed Saric, MD*
- 9:05 AM – 9:10 AM **Case Presentation: Tricuspid Valve**  
*Anika Ross, DO*
- 9:10 AM – 9:20 AM **Imaging of Native Tricuspid Valve Dysfunction**  
*Frank Silvestry, MD*
- 9:20 AM – 9:30 AM **Imaging Considerations for Tricuspid Valve Interventions**  
*Rebecca Hahn, MD*
- 9:30 AM – 10:00 AM **Panel Discussion/Q&A: Interventionalist Perspective**
- 10:00 AM – 10:15 AM **Break**

### **PART II VALVES: AORTIC VALVE, AORTOPATHIES, AND INFECTIONS**

- 10:15 AM – 10:20 AM **Case Presentation: Aortic Valve**  
*Varun Bhasin, MD*
- 10:20 AM – 10:30 AM **Imaging of Native Aortic Valve Dysfunction**  
*Esther Choi, MD*
- 10:30 AM – 10:40 AM **Imaging of Prosthetic Aortic Valve Dysfunction**  
*Ron Jacob, MD*
- 10:40 AM – 10:50 AM **Surgical Perspective on Aortopathies**  
*Nimesh Desai, MD, PhD*
- 10:50 AM – 11:00 AM **Updates and Controversies on Bicuspid Valve Disease**  
*Victor A. Ferrari*
- 11:00 AM – 11:10 AM **Imaging Considerations for Aortic Valve Interventions**  
*Ray Hu*

# Advanced Multimodality Cardiac Imaging Symposium



- 11:10 AM – 11:20 AM **Native and Prosthetic Valve Infections**  
*Nitin Malik, MD*
- 11:20 AM – 11:45 AM **Panel Discussion/Q&A: Interventionalist Perspective**
- 11:45 AM – 12:05 PM **Advocacy and Cardiovascular Imaging:  
You Need a Seat at the Table!**  
*Marietta Ambrose, MD, MPH, MEd FACC*

12:05 PM – 12:45 PM Lunch

## KEYNOTE

- 12:45 PM – 1:15 PM **Artificial Intelligence in Multimodality Cardiac Imaging**  
*Geoff Tison, MD, MPH*

## PART I CARDIOMYOPATHIES: AMYLOIDOSIS/SARCOIDOSIS

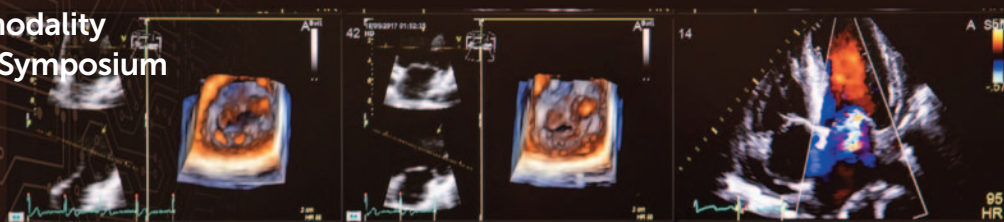
### AMYLOIDOSIS SESSION

- 1:15 PM – 1:20 PM **Case Presentation**  
*Henrietta Afari, MD*
- 1:20 PM – 1:30 PM **Approach to Cardiac Amyloidosis: Screening and Diagnostic Workflow**  
*Janice Pieretti, MD*
- 1:30 PM – 1:40 PM **Overview of Echo/CMR Features of Cardiac Amyloidosis**  
*Benedicte Lefebvre, MD*
- 1:40 PM – 1:50 PM **Nuclear Protocols and Diagnostic Challenges**  
*Sharmila Dorbala, MD*

### SARCOIDOSIS SESSION

- 1:50 PM – 1:55 PM **Case Presentation**  
*Chanel Jonas, MD, MS*
- 1:55 PM – 2:05 PM **Diagnosis and Management of Cardiac Sarcoidosis**  
*Lee Goldberg, MD, MPH*
- 2:05 PM – 2:15 PM **Imaging Features of CMR – Diagnosis and Prognosis**  
*Mahesh Vidula, MD*
- 2:15 PM – 2:25 PM **Imaging Features of PET – Diagnosis and Treatment Response**  
*Paco Bravo, MD*
- 2:25 PM – 2:45 PM **Panel Discussion/Q&A**
- 2:45 PM – 3:00 PM Break

# Advanced Multimodality Cardiac Imaging Symposium



## **PART II CARDIOMYOPATHIES: HYPERTROPHIC/GENETIC CARDIOMYOPATHIES**

- 3:00 PM – 3:05 PM **Case Presentation**  
*Amy Marzolf, NP*
- 3:05 PM – 3:15 PM **Diagnosing HCM and Differentiation from Phenocopies**  
*James Moon, MD*
- 3:15 PM – 3:25 PM **Risk Stratification of Patients With HCM**  
*Teresa Wang, MD*
- 3:25 PM – 3:35 PM **Using Imaging to Guide Septal Reduction Therapies**  
*Victor A. Ferrari, MD*
- 3:35 PM – 3:45 PM **New Treatments in HCM and Monitoring Response**  
*Anjali Owens, MD*
- 3:45 PM – 3:55 PM **Imaging of Genetic/Arrhythmogenic Cardiomyopathies**  
*Ray Hu, MD*
- 3:55 PM – 4:25 PM **Panel Discussion/Q&A**

## **ELECTROPHYSIOLOGY**

- 4:25 PM – 4:35 PM **Imaging Considerations for Watchman Implantation**  
*Richard Weiss, MD*
- 4:35 PM – 4:45 PM **Multimodality Imaging in the Evaluation of Syncope**  
*Neel Chokshi, MD*
- 4:45 PM – 4:55 PM **CMR in Patients with Ventricular Arrhythmias**  
*Saman Nazarian, MD, PhD*
- 4:55 PM – 5:10 PM **Panel Discussion/Q&A**
- 5:10 PM – 5:15 PM **Closing Remarks and Adjourn**

IN-PERSON AND VIRTUAL

# Advanced Multimodality Cardiac Imaging Symposium

Friday-Saturday, May 3-4, 2024

We strongly encourage you to register for this conference online by check or credit card at  
<https://upenn.cloud-cme.com/CardiacImaging2024>

**Questions? Contact us at:**

penncme@penncme.upenn.edu • Phone: 215-898-6400 or 215-898-8005

Please note: we are unable to accept faxed registration forms.

Please print or type

\_\_\_\_\_  
Name (First) (Last)

\_\_\_\_\_  
Academic Degree

\_\_\_\_\_  
Medical Specialty

\_\_\_\_\_  
Affiliation (Hospital, Office, or Company)

\_\_\_\_\_  
Address (  Affiliation or  Home)

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

\_\_\_\_\_  
E-mail

## REGISTRATION FEES

(pre-payment is required to be officially registered)

**IN-PERSON or VIRTUAL ATTENDANCE:**

- Physicians and industry employees – \$250
- Nurses, nurse practitioners, physician assistants and other healthcare professionals – \$75
- Residents, fellows and students – \$50
- Penn Medicine faculty and staff – no fee

## PAYMENT METHOD

- If you are paying by check or credit card, please register online at  
<https://upenn.cloud-cme.com/CardiacImaging2024>
- If you are paying by check, you may mail your completed registration form and check made payable to **The Trustees of the University of Pennsylvania/CME** to:  
Conference Manager  
Office of Continuing Medical & Interprofessional Education  
Academic Programs, Penn Medicine, JMEC, SPE, 6th floor  
3400 Civic Center Blvd, Bldg. 421  
Philadelphia, PA 19104-5162
- Do not include any credit card information on the registration form or share via email.