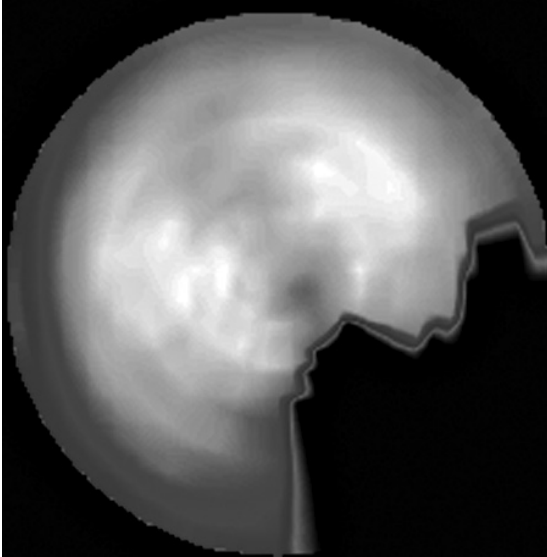


*Registration Now Open!*



# CVI's 17th Annual Update in Nuclear Cardiology CME Program

Watch Live:

**Session 1**

Sun. June 6th (3.5 Credits)

**Session 2**

Mon. June 7th (2.25 Credits)

**Session 3**

Wed. June 9th (2.5 Credits)

Register Today!

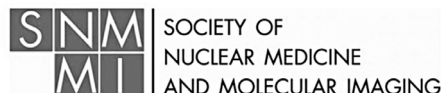
\$35 early-bird  
discount and  
FREE Apple iPad  
drawing by  
5/20/21

On-Demand Recorded  
Sessions for Credits Too!

Through July 23, 2021

- 8.25 Nuclear Specific CME/CEU Credits
- 8.25 Nuclear Specific VOICE Credits
- 7.5 ABIM Medical Knowledge MOC Points

ABIM  
CME MOC  
ACCREDITED



# Goals & Objectives

## Why you should attend:

CVI's 17th Annual Update in Nuclear Cardiology CME program is designed to further the clinical application, management and interpretation skills of physicians, nuclear technologists and mid-level providers involved in non-invasive cardiac imaging including SPECT, PET and Cardiac MR. The agenda for CVI's 17th Annual Update in Nuclear Cardiology focuses on a variety of topics in non-invasive cardiac imaging including: Clinical Implications of the ISCHEMIA Trial, Test Accuracy on Stress SPECT Imaging, Differences Between CVT SPECT & SPECT, Transition from SPECT to PET, PET & PET/CT Artifacts, MBF Imaging, PET Reporting, PYP Imaging, Imaging for Managing Cardio-Oncology and Sarcoidosis.

## Target Audience:

Cardiologists, radiologists, nuclear medicine physicians, nuclear technologists, fellows, residents and mid-level providers involved in nuclear medicine. The program is also appropriate for all physicians and healthcare professionals who treat patients with coronary artery disease.

## Learning Objectives:

**After attending CVI's 17th Annual Update in Nuclear Cardiology, attendees will be better able to:**

- Emphasize the importance of optimal medical therapy in obstructive coronary artery disease
- Develop a symptom-based management strategy for higher-risk patients with stable ischemic heart disease
- Highlight contemporary diagnostic and therapeutic options with attention to shared decision-making
- Describe the use of various techniques such as stress prone imaging and newer reconstructive software to improve study quality and diagnostic accuracy on stress myocardial perfusion SPECT imaging
- Explain the use of newer camera hardware systems to improve study quality and diagnostic accuracy on stress myocardial perfusion imaging with SPECT
- Discuss how iterative reconstruction and attenuation correction techniques for processing improve image quality
- Describe the principles of solid-state imaging
- Recognize common artifacts on CZT-crystal cameras
- Demonstrate the advantages of solid-state imaging
- Recognize the advantages of cardiac PET over SPECT myocardial perfusion imaging
- Demonstrate the value of PET derived myocardial flow reserve and when to report it
- Review the features of microvascular disease and allograft vasculopathy as assessed by PET derived myocardial flow reserve
- Identify sources of common PET and PET/CT Artifacts
- Recognize strategies for preventing these artifacts
- Develop strategies for differentiating artifact from perfusion features
- Define coronary flow capacity and explain how it differs from global or regional stress myocardial blood flow and CFR
- Describe subendocardial ischemia (SEI) new methods for imaging SEI and clinical outcomes
- Explain various definitions of micro vascular disease and how PET imaging can assist in diagnosis
- Review the importance of structured reporting
- Assemble critical components of a PET report
- Compose PET Summary statements and how to address discrepant findings
- Appropriately select patients for PYP imaging
- Describe the acquisition protocol for PYP Imaging
- Recognize the diagnostic SPECT findings for patients with cardiac amyloid
- Identify chemotherapeutic agents that have cardiotoxic side effects
- Apply imaging guidelines to monitoring of chemotherapeutic cardiotoxicity and management of chemotherapy
- Describe the strengths and weaknesses of different imaging modalities in the monitoring of cardiotoxicity
- Recognize the challenges inherent in diagnosing cardiac sarcoidosis
- Describe the role of cardiac MRI and PET in evaluation of patients with suspected cardiac sarcoidosis
- Utilize cardiac PET in selecting patients for immunosuppressive therapies and following response to therapy

## Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Einstein Medical Center and The Cardiovascular Institute of Philadelphia (CVI). Einstein Medical Center is accredited by the Pennsylvania Medical Society to provide continuing medical education for physicians.

## Credit Designation Statement

**AMA:** Einstein Medical Center designates this live educational event for a maximum of 8.25 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the educational event.

**AOA:** This program is eligible for 8.25 credits in category 2A of the American Osteopathic Association through the Pennsylvania Osteopathic Medical Association Foundation.

## MOC Statement

**Medical Knowledge MOC Credits/Points:** Successful completion of this CME activity enables the participant to earn up to 7.5 Medical Knowledge MOC Points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

\*\*Awarding of MOC points requires additional attestation, post program evaluation and test questions.

## SNMMITS VOICE Accreditation Information

The SNMMI, through its Verification of Involvement in Continuing Education (VOICE) program, has approved this meeting for a maximum of 8.25 continuing education hours (CEHs). VOICE-approved credit is recognized by most licensure states and by the NMTCB and ARRT as Category A+ credit. Participants will receive CE credit for those sessions at which they were present a minimum of 80%.

Approval Number Pending.

## Course Directors

### **Veronica A. Covalesky, MD FACC**

Clinical Assistant Professor of Medicine  
Drexel University College of Medicine

### **Pravin V. Patil, MD FACC**

Assistant Professor of Medicine  
Lewis Katz School of Medicine at Temple University

### **Renee P. Bullock-Palmer, MD FACC FAHA FASNC FASE FSCCT**

Clinical Associate Professor, Division of Cardiology  
Philadelphia Osteopathic College of Medicine  
Director of Women's Heart Center  
Director of Non-Invasive Cardiac Imaging  
Deborah Heart and Lung Center

## Associate Director

### **Colin M. Movsowitz, MD FACC**

Director of Cardiac Electrophysiology  
Einstein Medical Center Montgomery

## Faculty

### **Robert M. Bober MD FACC**

Senior Lecturer  
The Ochsner Clinical School, University of  
Queensland  
Director of Cardiac Molecular Imaging  
John Ochsner Heart and Vascular Institute

### **Ron Blankstein, MD**

Associate Professor in Medicine and Radiology  
Harvard Medical School

### **James Case, Ph. D**

Adjunct Professor  
Department of Nuclear Engineering  
University of Missouri-Columbia

### **Vasken Dilsizian, MD FACC FAHA**

Professor of Radiology and Medicine  
Chief, Division of Nuclear Medicine  
Director, Cardiovascular Nuclear Medicine  
and Cardiac PET  
University of Maryland Medical School

### **Andrew Pogoselski, MD**

Vice Chairman and Co-Director of Operations,  
Department of Cardiovascular Medicine  
Physician Lead, Heart Failure and Pulmonary  
Hypertension Program  
Forbes Hospital

### **Raymond R. Russell, III MD, PhD**

Professor of Medicine & Cardiology Fellowship  
Program Director  
Warren Alpert School of Medicine  
Brown University

### **Prem Soman, MD**

Professor of Medicine  
Associate Chief of Cardiology  
Director, Cardiac Amyloidosis Center  
Director, Nuclear Cardiology and Cardiac Imaging  
Fellowship

### **Rupa Sanghani, MD**

Associate Professor, Division of Cardiology,  
Rush University Medical Center  
Vice Chief of Clinical Operations for Cardiology  
Director of Nuclear Cardiology and Stress Laboratory  
Associate Director for the Rush Heart Center  
for Women

## Case Presenters

### **Evan Carabelli, MD**

Cardiology Fellow  
Temple University Hospital

### **Mahathi Indaram, MD**

Cardiology Fellow  
Allegheny Health Network

### **Sergey Kachur, MD**

Cardiovascular Diseases Fellow  
Oschner Clinic Foundation

### **Ricardo Nieves, MD**

Cardiology Fellow  
University of Pittsburgh

### **Benita Philip, DO**

Cardiology Fellow  
Deborah Heart & Lung Center

### **Dana Price, MD**

Cardiology Fellow  
Brown University

## Conflict of Interest Statement

Faculty and all others who have the ability to control the content of continuing medical education activities sponsored by the Pennsylvania Medical Society are expected to disclose to the audience whether they do or do not have any real or apparent conflict(s) of interest or other relationship(s) related to the content of their presentation(s).

## Acknowledgement

All commercial support in the form of educational grants and display support will be acknowledged in the syllabus, on signage and verbally before the start of the program.

# Live Webinar Agenda

CVI's 17th Annual Update in Nuclear Cardiology  
8.25 CME/CEU/VOICE Credits  
7.5 ABIM Medical Knowledge MOC Points

## Session 1 – Sunday, June 6, 2021 (3.5 Credits)

### Introduction and Overview

Veronica Covalesky, MD ..... 7:45am–8:00am

### ♥ Fellow Case Presentation: In Case of Ischemia-Break Glass

Evan Carabelli, MD ..... 8:00am–8:15am

### ♥ Clinical Implications of ISCHEMIA

Pravin Patil, MD ..... 8:15am–8:45pm

### ♥ Fellow Case Presentation: Stress Prone Saved the Day – What's Old is New Again

Benita Philip, DO ..... 8:45am–9:00am

### ♥ Improving Test Accuracy on Stress Myocardial Perfusion SPECT Imaging

Renee Bullock Palmer, MD ..... 9:00am–9:30am

### ♥ Fellow Case Presentation: Real Life D-SPECT

Ricardo Nieves, MD ..... 9:30am–9:45am

### ♥ CZT SPECT – How Is It Different from Traditional SPECT?

Prem Soman, MD ..... 9:45am–10:15am

### ♥ Transition from SPECT to PET Myocardial Perfusion Imaging

Vasken Dilsizian, MD ..... 10:15am–10:45am

### ♥ Q/A & Discussion

Panel ..... 10:45am–11:15am

## Session 2 – Monday, June 7, 2021 (2.25 Credits)

### Introduction and Overview

Pravin Patil, MD ..... 6:45pm–7:15pm

### ♥ PET, PET CT Artifacts: Origins, Appearance and Strategies

James Case, MD ..... 6:45pm–7:00pm

### ♥ Fellow Case Presentation: Left Main Conundrum: A 21st Century Approach

Sergey Kachur, MD ..... 7:15pm–7:30pm

### ♥ 21st Century Myocardial Blood Flow Imaging

Robert Bober, MD ..... 7:30pm–8:00pm

### ♥ Best Practices in PET Reporting

Rupa Sanghani, MD ..... 8:00pm–8:30pm

### ♥ Q/A & Discussion

Panel ..... 8:30pm–8:45pm

## Session 3 – Wednesday, June 9, 2021 (2.5 credits)

### Introduction and Overview

Renee Bullock Palmer, MD ..... 6:30pm–6:45pm

### ♥ Fellow Case Presentation: PYP Imaging to Diagnose Amyloid

Mahathi Indaram, MD ..... 6:45pm–7:00pm

### ♥ Lessons Learned from PYP Imaging

Andrew Pogozelski, MD ..... 7:00pm–7:30pm

### ♥ Fellow Case Presentation: Clinical Evaluation of the Cardio Oncology Patient

Dana Price, MD ..... 7:30pm–7:45pm

### ♥ Cardio Oncology from an Imaging Perspective

Raymond Russell, MD ..... 7:45pm–8:15pm

### ♥ Use of Nuclear Cardiology in the Diagnosis and Management of Cardiac Sarcoidosis

Ron Blankstein, MD ..... 8:15pm–8:45pm

### ♥ Q/A & Discussion

Panel ..... 8:45pm–9:00pm

**View Recorded Sessions On-Demand for Credits through July 25, 2021**

## **CVI accredited CME/CEU/SDMS/VOICE programs ... still virtual (online and on-demand) until it is safe to gather again.**

Until local health officials in the Greater Philadelphia Region feel that it is safe to gather in larger numbers, accredited CVI CME/CEU/SDMS/VOICE programs will be available to you online and on-demand.

Our hope is that we will be back in-person in January, 2022 – but visit us online at [cviphiladelphia.org](http://cviphiladelphia.org) for news and updates!

**Please review the important notes below for details on how it all works. Any questions, email [cvi.markhartnett@verizon.net](mailto:cvi.markhartnett@verizon.net) or call us at 215-389-2300.**

To make our accredited programs more user friendly, agendas are broken up into several shorter segments (2.25–3.0 credits per session.)

### **There are 2 easy ways to earn your credits:**

- Watch programs **live** with hundreds of other health professionals
- Or watch the recorded proceedings on demand, at your convenience, for 45 days after the program (until 7/23/21 for CVI Nuclear 2021)
- All presentations have start and end codes which need to be included on program evaluation to claim credits
- If watching recorded proceedings, an **additional** quiz is also required
- Either format — you **must** register to receive a unique link to view the program

### **CVI's Online CME/CEU/SDMS/VOICE/MOC Programs offer you:**

- Relevant, timely, interesting topics
- Nationally recognized thought leader faculties
- Registration fees discounted from in-person programs
- Early-bird discounts for advanced registration by 5/20/21 for CVI's 17th Annual Nuclear Updates
- Early-birds eligible for our FREE CVI Apple iPad drawing!
- Virtual Exhibit Rooms – with FREE \$250 VISA Gift Card Drawings Each Day (June 6, 7 ,9)

**For more information, accreditation requirements and a calendar of all of our accredited programs, please visit us online at [cviphiladelphia.org](http://cviphiladelphia.org).**



# Look for these upcoming accredited CVI CME/CEU/SDMS/ VOICE/MOC and other programs

## For Cardiology Fellows and Medical Residents with an interest ... a monthly series

### CVI's 5th Annual Cardiology Fellows Series: What Every Cardiology Fellow Needs to Know About Interventional Cardiology

- Live sessions monthly online
- On-demand viewing through 12/31/21
- Non-accredited for Cardiology Fellows and Medical Residents only
  - **Tuesday April 20, 6:45 pm EST**  
The Art and Science of STEMI
  - **Tuesday May 18, 6:45 pm EST**  
Fundamentals of Coronary Intervention: How to Fly on My Own
  - **Tuesday June 15, 6:45 pm EST**  
How Should I Use FFR/IFR, IVUS, OCT and NIRS in Preparation for PCI and to Assess My Results
  - **Tuesday July 20, 2021 6:45 pm EST**  
Optimal Interventional Pharmacology: Tailoring the Drug to the Specific Patient
  - **Tuesday September 28, 6:45 pm EST**  
Complex Coronary Intervention: Prepare for the Worst And Hope for the Best
  - **Tuesday October 19, 6:45 pm EST**  
Treatment of Patients with Aortic Stenosis-from Hemodynamic Principles to Valve Replacement in the TAVR Era

## Accredited Programs

- CVI's 17th Annual Update in Nuclear Cardiology – **June 6, 7, 9**
- **NEW PROGRAM** – CVI/DHLC Inaugural Adult Congenital Heart Disease Symposium – **August 14, 16**
- CVI's 28th Annual Cardiology Update: Translating Prevention Guidelines into Clinical Practice – **October 24, 25, 27**
- CVI/DHLC 8th Annual Multimodality Cardiac Imaging in Women – **December 4, 6, 8**

## And we hope to see you live back in person in 2022!

- CVI's 14th Annual Echo Update – **January, 2021**
- CVI's 11th Annual EP/Arrhythmia Update – **February, 2022**

For more information on these and other  
CVI Educational programs, please visit us online  
at [cviphiladelphia.org](http://cviphiladelphia.org)



# Registration Form

## Registration Fees

Be an early bird ... sign up and pay your registration by Thurs. May 20th and **SAVE \$35 off your registration fee!**

- Physicians and Industry: **\$164** by 5/20/21; **\$199** after 5/20/21\*
- Technologist, Mid-Level Provider, Nurses, Fellows, Residents: **\$75** by 5/20/21; **\$110** after 5/20/21\*

\*Prices above reflect discount of \$6 for payment by cash or check. Please add \$6 for a Visa/MC/AMEX payment

## LIVE Zoom CME Webinars

### Session 1

Sunday, 6/6/21  
7:45am - 11:15am

### Session 2

Monday 6/7/21  
6:30pm - 8:45pm

### Session 3

Wednesday 6/9/21  
6:30pm - 9:00pm

## Recorded Sessions for Credits

Through 7/23/21

- 8.25 Nuclear Specific CME/CEU Credits
- 8.25 Nuclear Specific VOICE Credits
- 7.5 ABIM Medical Knowledge MOC Points for Physicians who certify through ABIM

Name \_\_\_\_\_  
 Degree \_\_\_\_\_ Gender  M  F

Email address to which unique program link should be sent \_\_\_\_\_

For MOC Points Only  
 Date of Birth \_\_\_\_\_ ABIM ID# \_\_\_\_\_

Clinical Position \_\_\_\_\_  
 Clinical Affiliation Name \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Is this address work? \_\_\_\_\_ Home? \_\_\_\_\_ Other? \_\_\_\_\_

### Important Notes:

**You MUST register in advance to attend the sessions. Register online at [cviphiladelphia.org](http://cviphiladelphia.org)**

Please make checks payable to:  
**Cardiovascular Institute of Philadelphia**  
**P.O. Box 56598 • Philadelphia, PA 19111**  
**Phone: 215-389-2300 • Fax: 215-389-5450**

### Course Registration Cancellation Policy:

Requests in writing for refunds, less \$35 administrative fee, by May 28, 2021 processed after the meeting. Registrations are transferable with prior notification to CVI by May 28, 2021.

Order	Early Bird Discount	Regular Price	Total
Physicians & Industry Registration	____ \$164 (by 5/20/21)	____ \$199 (after 5/20/21)	\$ _____
ABIM MOC Points – requires additional attestation, post program evaluation and test questions	N/A	____ @ \$50	\$ _____
Technologists, Mid-Level Providers, Nurses, Fellows, Residents	____ @ \$75 (by 5/20/21)	____ @ \$110 (after 5/20/21)	\$ _____
Pay by Visa/MC/Amex	Add \$6 per registration	Add \$6 per registration	\$ _____
Apple iPad Drawing Entry	FREE		FREE
<b>GRAND TOTAL</b>			\$ _____

Visa  MC  Amex

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Name as appears on card \_\_\_\_\_

Billing address of card \_\_\_\_\_

Signature \_\_\_\_\_

## FREE Apple iPad Drawing

In order to be entered into the FREE Apple iPad Drawing, you must:

- Register and pay for CVI's 17th Annual Update in Nuclear Cardiology by 5:00pm on Thursday, May 20, 2021
- Submit your fully completed online program evaluation for CVI's 17th Annual Update in Nuclear Cardiology by 5:00pm on Wednesday, July 7, 2021.
- And you are entered to win... **It's as easy as that!** Winner will be contacted via email.