

Recent Advances in Clinical Nuclear Cardiology and Cardiac CT:
State-of-the-Art Updates and 101 Evidence-Based Case Reviews

AGENDA

Wednesday, May 9

4:00 p.m. –
6:00 p.m. **Registration**

Thursday, May 10

7:00 a.m. **Registration and Continental Breakfast**

7:45 a.m. **Course Overview and Objectives**
Dr. Berman

Session #1: Advances in SPECT and PET
Moderator: Dr. Berman

8:00 a.m. **The Nuclear Cardiology Consultation: Beyond Standard Interpretation and Reporting (2 cases)**
Dr. Berman

8:25 a.m. **Quantitative Analysis of Myocardial Perfusion and Function Using SPECT and PET**
Dr. Germano

8:45 a.m. **Integrating Visual and Quantitative Analyses: Improving Your Scan Interpretation Case Illustrations (8 cases)**
Dr. Hayes

9:30 a.m. **Laboratory Accreditation in Nuclear Cardiology: New Technical and Regulatory Requirements**
Dr. Germano

9:50 a.m. **Panel Discussion**
Faculty: Drs. Germano and Hayes
Moderator: Dr. Berman

10:05 a.m. **Break**

SESSION #2: Cameras, Software, Protocols
Moderator: Dr. Berman

10:20 a.m. **New SPECT Cameras and Approaches to Reconstruction Protocols for Myocardial Perfusion SPECT**
Dr. Slomka

10:40 a.m. **Pharmacologic Stress: Combined with Exercise or Alone — What You Need to Know (2 cases)**
Dr. Hayes

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- 11:10 a.m. Latest Software Developments in SPECT and PET: Comparison of the Various Software Packages**
Dr. Slomka
- 11:30 a.m. Artifacts on SPECT and PET MPI: How to Recognize and Deal with Them (8 cases)**
Dr. Hayes
- 12:15 p.m. Panel Discussion**
Faculty: Drs. Hayes and Slomka
Moderator: Dr. Berman
- 12:30 p.m. Lunch**

SESSION #3: Optimizing the Use of Nuclear Cardiology
Moderator: Dr. Berman

- 1:20 p.m. The Changing Nature of CAD in the 21st Century: How Is It Affecting Cardiac Imaging Paradigms?**
Dr. Rozanski
- 1:50 p.m. When to Add CAC Scanning to SPECT/PET MPI (2 cases)**
Dr. Berman
- 2:10 p.m. The Normal Stress-MPI Scan: How Can It Change Management?**
Dr. Rozanski
- 2:30 p.m. Challenges for SPECT and PET in 2018: Reducing Radiation and Increasing Efficiency in SPECT and PET**
Dr. Bateman
- 2:50 p.m. F-18 Flurpiridaz: The Ideal MPI Radiopharmaceutical (4 cases)**
Dr. Maddahi
- 3:10 p.m. Break**
- 3:25 p.m. Myocardial Viability: Assessment with SPECT, PET and MRI**
Dr. Maddahi
- 3:45 p.m. Myocardial Viability: Classic Cases (8 cases)**
Dr. Maddahi
- 4:15 p.m. Panel Discussion**
Faculty: Drs. Bateman, Maddahi and Rozanski
Moderator: Dr. Berman
- 4:30 p.m. Expert Interpretation of Challenging Cases: SPECT and PET (10 cases)**
Panelists: Drs. Bateman, Berman, Maddahi and Rozanski
Presenter: Dr. Hayes
- 5:30 p.m. Adjournment**

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Friday, May 11

7:30 a.m. Continental Breakfast and Exhibits

Session #4: New Applications of Nuclear Cardiology

Moderator: Dr. Berman

8:00 a.m. Myocardial Blood Flow and Myocardial Flow Reserve with PET and SPECT: How to Perform, Interpret and Report (2 cases)
Dr. Bateman

8:20 a.m. Assessment of Microvascular Dysfunction in Patients with Chest Pain and Heart Failure (2 cases)
Dr. Dorbala

8:50 a.m. Amyloidosis: Rebirth of the Need for Tc-99m PYP Imaging (3 cases)
Dr. Dorbala

9:10 a.m. Phase Analysis of MPI and Radionuclide Ventriculography (2 cases)
Dr. Soman

9:30 a.m. Cardiac Sarcoidosis: How to Use FDG PET and Cardiac MRI (3 cases)
Dr. Dorbala

9:50 a.m. Panel Discussion
Faculty: Drs. Bateman, Dorbala and Soman
Moderator: Dr. Berman

10:05 a.m. Break

Session #5: The Big Picture in Advanced Cardiac Imaging

Moderator: Dr. Min

10:20 a.m. Pathogenesis of Atherosclerosis: Potential Targets for Plaque Molecular Imaging
Dr. Tawakol

10:40 a.m. The New Regulatory Reality: MACRA, AUC and Bundling — Effect on My Practice
Dr. Soman

11:00 a.m. ISCHEMIA Trial: Implications for the Future of Cardiac Imaging
Dr. Shaw

11:20 a.m. Cardiac Imaging in 2018 as Viewed from a Health Care System Perspective
Dr. Ziffer

11:50 a.m. Clinical Trials and Registries: What Evidence Do We Have and What Do We Need?
Dr. Shaw

12:20 p.m. Panel Discussion
Faculty: Drs. Shaw, Soman, Tawakol and Ziffer
Moderator: Dr. Berman

12:35 p.m. Lunch

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Session #6: Updates in Cardiovascular Magnetic Resonance Moderator: Dr. Berman

- 1:20 p.m. **CMR for Myocardial Perfusion, Fibrosis, Edema and Infarction (2 cases)**
Dr. Arai
- 1:40 p.m. **When Is CMR the Test of Choice? A Case-based Approach (4 cases)**
Dr. Arai
- 2:10 p.m. **Panel Discussion**
Faculty: Drs. Arai and Maddahi
Moderator: Dr. Berman

Session #7: Coronary CTA: New Developments Moderator: Dr. Min

- 2:25 p.m. **Coronary CTA: Interpretation and Reporting of Coronary CTA (3 cases)**
Dr. Weigold
- 2:45 p.m. **Coronary CTA: Instrumentation, Acquisition Protocols and Reducing Radiation**
Dr. Carr
- 3:05 p.m. **FFRct and CT Perfusion: Physiologic Assessment of Coronary Disease (2 cases)**
Dr. Nieman
- 3:25 p.m. **Break**
- 3:40 p.m. **BATTLE OF THE EXPERTS**
CT Face-off on Challenging Unknown Cases (8 cases)
Panelists: Drs. Min and Nieman vs. Drs. Callister, Carr and Weigold
Presenter: Dr. Villines
- 4:45 p.m. **Panel Discussion**
Faculty: Drs. Callister, Carr, Nieman, Villines and Weigold
Moderator: Dr. Min
- 5:00 p.m. **Adjournment**

Saturday, May 12

- 7:30 a.m. **Continental Breakfast and Exhibits**

Session #8: Cardiac CT and Its Relationship to Nuclear Cardiology and CMR Moderator: Dr. Min

- 8:00 a.m. **Pitfalls in Coronary CTA: How to Reduce and Deal with Artifacts (5 cases)**
Dr. Weigold
- 8:20 a.m. **Coronary CTA and SPECT Imaging in Patients with Chest Pain in the ED (3 cases)**
Dr. Ziffer
- 8:40 a.m. **How Coronary CTA Is Changing Routine Clinical Practice (2 cases)**
Dr. Callister

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- 9:00 a.m. **Don't Miss It: Non-cardiac Findings on Cardiac CT Studies** (6 cases)
Dr. Carr
- 9:20 a.m. **Coronary Plaque Assessment and the Prediction of Future Myocardial Infarction**
(2 cases)
Dr. Min
- 9:40 a.m. **Panel Discussion**
Faculty: Drs. Callister, Carr, Villines and Ziffer
Moderator: Dr. Min
- 9:55 a.m. **Break**

Session #9: Beyond the Coronaries: Cardiac and Valvular Applications Moderator: Dr. Min

- 10:10 a.m. **Coronary Plaque, Stenosis and Ischemia: What Is Really Important?** (2 cases)
Dr. Callister
- 10:30 a.m. **Role of Cardiovascular CT in Transcatheter Aortic Valve Replacement (TAVR)**
(2 cases)
Dr. Carr
- 10:50 a.m. **Coronary CTA Applications in Non-coronary Heart Disease** (4 cases)
Dr. Villines

Session #10: Multimodality Imaging: Putting it All Together Moderator: Dr. Min

- 11:10 a.m. **Top Ten Imaging Papers of the Year**
Dr. Min
- 11:30 a.m. **Multimodality Cardiac Imaging: Its Use in the Era of Value-based Imaging**
Dr. Berman
- 12:00 p.m. **Game Show Jeopardy: Nuclear and CT**
Presenter: Dr. Min
Attendee participation. Prize awarded to winner
- 12:30 p.m. **Course Adjournment**