

FRIDAY, JANUARY 17, 2020

7:15 AM **Registration, Breakfast & Exhibits**

7:45 AM Course Overview and Objectives
Daniel S. Berman, MD, FACC

SESSION 1: Interpreting and Reporting SPECT MPI Cases in Daily Practice

Daniel S. Berman, MD, FACC, FACC Presiding

8:00 AM The Comprehensive Nuclear Cardiology Report
Daniel S. Berman, MD, FACC

8:20 AM Integrating Visual and Quantitative Analyses: Improving Your Scan Interpretation-
Case Illustrations
Sean W. Hayes, MD

9:00 AM Artifacts on SPECT and PET MPR: How to Recognize and Address- Case
Illustrations
Sean W. Hayes, MD

9:20 AM **KEYNOTE ADDRESS: The Future of Myocardial Perfusion Imaging**
John Mahmarian, MD

9:40 AM Panel Discussion
Faculty: John Mahmarian, MD and Sean W. Hayes, MD
Moderator: Daniel S. Berman, MD, FACC

9:55 AM **Break/Exhibits/Break-out session#1 (TBD faculty)**

SESSION 2: Integrating All Available Information from the Stress Imaging Test

Daniel S. Berman, MD, FACC, Presiding

10:10 AM The Emergence of Competing Risk Factor Trends in the 21st Century: Its
Implications for Cardiac Testing
Alan Rozanski, MD

10:30 AM Pharmacologic Stress: Combined with Exercise or Alone: What You Need to Know
Sean W. Hayes, MD

11:00 AM CAC Scanning in Patients Undergoing SPECT/PET MPI
John Mahmarian, MD

11:20 AM Patients' Capability to Exercise and Exercise Performance at the Time of Cardiac
Testing: The Variables that Still Gets No Respect
Alan Rozanski, MD

- 11:40 AM Stress-only SPECT
John Mahmarian, MD
- 12:00 PM Panel Discussion
Faculty: Alan Rozanski, MD, John Mahmarian, MD and Sean W. Hayes, MD
Moderator: Daniel S. Berman, MD, FACC
- 12:15 PM **Lunch and Exhibits**

SESSION 3: RADIOPHARMACEUTICALS, CAMERAS, SOFTWARE, RADIATION

Daniel S. Berman, MD, FACC, Presiding

- 1:00 PM Solid-state SPECT Cameras for Myocardial Perfusion SPECT
Piotr Slomka, PhD, FACC
- 1:20 PM F-18 Flurpiridaz: The Ideal MPI Radiopharmaceutical
Jamshid Maddahi, MD, FACC
- 1:40 PM Latest Software Developments in SPECT, PET, and MRI: Comparison of the Various
Software Packages
Piotr Slomka, PhD, FACC

SESSION 4: CARDIAC AMYLOIDOSIS: THE MOST RAPIDLY GROWING ARENA IN NUCLEAR CARDIOLOGY

Daniel S. Berman, MD, FACC, Presiding

- 2:00 PM Clinical Overview: Pathophysiology, Phenotypes, Diagnostic Pathways, Treatment
Sharmila Dorbala, MD
- 2:20 PM Tc-99m Pyrophosphate Imaging: Acquisition, Processing, Quantitation,
Interpretation
Panithaya Chareonthaitawee, MD
- 2:40 PM Role of Tc-99m PYP and F-18 amyloid tracers in monitoring therapy
Sharmila Dorbala, MD
- 2:55 PM Amyloidosis: Case Presentation/Interpretation
Panithaya Chareonthaitawee, MD and Sharmila Dorbala, MD
- 3:15 PM Panel Discussion
Faculty: Sharmila Dorbala, MD; Panithaya Chareonthaitawee, MD; Sean W.
Hayes, MD
Moderator: Daniel S. Berman, MD, FACC
- 3:30 PM **Break/Exhibits/Break-out session #2 (TBD)**

SESSION 5: READ WITH THE EXPERTS

Daniel S. Berman, MD, FACC, Presiding

- 3:45 PM Myocardial Viability: Multimodality Assessment with SPECT, PET, and MRI:
Concepts and Classic Cases
Jamshid Maddahi, MD, FACC
- 4:15 PM **READ WITH THE EXPERTS - SPECT and PET**
Challenging Unknown Cases from Clinical Practice
Presenter: John Friedman, MD, FACC
- 5:15 PM Panel Discussion
Faculty: Jamshid Maddahi, MD, FACC and John Friedman, MD, FACC
Moderator: Daniel S. Berman, MD, FACC
- 5:30 PM **Adjourn**

SATURDAY, JANUARY 18, 2020

- 7:30 AM **Breakfast and Exhibits**

SESSION 6: MYOCARDIAL FLOW RESERVE (MFR) WITH PET AND SPECT

Daniel S. Berman, MD, FACC Presiding

- 8:00 AM Clinical Value of MFR Measurements
Tim Bateman, MD
- 8:20 AM MFR with PET: How to Perform, Quality Control, Interpret and Report
Tim Bateman, MD
- 8:40 AM MFR with SPECT: Ready for Prime Time?
Piotr Slomka, PhD, FACC
- 8:55 AM Ischemia with No Obstruction CAD (INOCA): Fact or Fiction
Noel Bairey Merz, MD, FACC
- 9:10 AM Assessment of Microvascular Dysfunction using Myocardial Flow Reserve with PET
and MRI: Is There a Clinical Application?
Rob Blankstein, MD
- 9:25 AM Case Presentation: MFR
Tim Bateman, MD
- 9:45 AM Panel Discussion
Faculty: Tim Bateman, MD; Piotr Slomka, PhD, FACC; Noel Bairey Merz, MD,
FACC; Rob Blankstein, MD
Moderator: Daniel S. Berman, MD, FACC

10:00 AM **Break/Exhibits/Break-out session #3 (TBD)**

SESSION 7: SARCOIDOSIS and INFECTION

Daniel S. Berman, MD, FACC, Presiding

10:15 AM Cardiac Sarcoidosis: Clinical Overview of the Disease and Role of Imaging with PET and MRI
Sharmila Dorbala, MD

10:35 AM Cardiac Sarcoidosis: Imaging with FDG PET: Practical Considerations
Panithaya Chareonthaitawee, MD

10:55 AM Assessing Device and Valvular Infections with F-18 FDG PET:
Indium-111, WBC's and CT
Louise Thomson, MBChB

11:15 AM **READ WITH THE EXPERTS**
PET and CMR for Cardiac Sarcoidosis
Presenter: John Friedman, MD, FACC

11:40 AM Challenges for SPECT and PET in 2019
Tim Bateman, MD

12:00 PM Panel Discussion
Faculty: Sharmila Dorbala, MD; Panithaya Chareonthaitawee, MD; Louise Thomson, MBChB; John Friedman, MD, FACC; Tim Bateman, MD
Moderator: Daniel S. Berman, MD, FACC

12:15 PM **Lunch**

12:30 PM Optional CSMC Cardiac Imaging Laboratories Site Visit (*No CME/CE credit*)
Mina Sadeghi

SESSION 8: NEW AND FUTURE DEVELOPMENTS IN PET AND SPECT

Daniel S. Berman, MD, FACC, Presiding

1:00 PM Pathogenesis of Atherosclerosis: Potential Targets for Plaque Molecular Imaging
PK Shah, MD, MACC

1:20 PM F-18 Fluoride Cardiovascular Imaging: The Coronary Arteries and Beyond
Jacek Kwiecinski, MD

1:40 PM Imaging in Cardiac Transplantation with PET, SPECT, and MRI
Robert Miller, MD

SESSION 9: IMPACT OF NEW TRIALS AND GUIDELINES

Daniel S. Berman, MD, FACC, Presiding

- 2:00 pm **KEYNOTE ADDRESS: The ISCHEMIA Trial - A Deep Dive into the Results: Implications for Stress Testing, Coronary CT Angiography and Invasive Coronary Angiography**
Leslee Shaw, PhD
- 2:20 PM Cardiac Imaging in 2020 as Viewed from a Healthcare System Perspective
Jack Ziffer, MD
- 2:40 PM Panel Discussion
Faculty: Leslee Shaw, PhD and Jack Ziffer, MD
Moderator: Daniel S. Berman, MD, FACC
- 2:55 PM **Break/Exhibits/Break-out session#4 (TBD faculty)**

SESSION 10: NUCLEAR CARDIOLOGY AND CARDIAC CT

Daniel S. Berman, MD, FACC, Presiding

- 3:10 PM Coronary CTA in the Asymptomatic Patient
Rob Blankstein, MD
- 3:30 PM Radiation Dose Reduction in SPECT, PET and Cardiac CT
Damini Dey, PhD
- 3:50 PM Coronary CTA and SPECT Imaging in Patients with Chest Pain in the ED
John Mahmarian, MD

SESSION 11: CARDIAC MRI: CURRENT AND FUTURE POTENTIAL

Daniel S. Berman, MD, FACC, Presiding

- 4:10 PM When is Cardiac MRI the Test of Choice? A Case-based Approach
Louise Thomson, MBChB
- 4:30 PM Cardiac MRI for Myocardial Fibrosis, Edema, and Infarction
Rohan Dharmakumar, PhD
- 4:50 PM A Game-changer in Performance of Cardiac MRI:
No Breath-holds, no ECG, no "Scouts" in a Comprehensive 30 Minute Study
Anthony Christodoulou, PhD
- 5:10 PM Cardio-oncology: Broadening the Clinical Applications of Multimodality Imaging
Balaji K. Tamarappoo, MD, PhD
- 5:30 PM Panel Discussion
Faculty: Louise Thomson, MBChB; Rohan Dharmakumar, PhD; Anthony Christodoulou, PhD; Balaji K. Tamarappoo, MD, PhD
Moderator: Daniel S. Berman, MD, FACC
- 5:45 PM **Adjourn**

SUNDAY, JANUARY 19, 2020

7:30 AM **Breakfast and Exhibits**

SESSION 12: ADVANCES IN CARDIAC CT

James K. Min, Presiding

- 8:00 AM Coronary CTA: Interpretation and Reporting CTA
Todd C. Villines, MD
- 8:20 AM Coronary Artery Calcium Scanning: Role in Asymptomatic and Symptomatic
Patients
Matt Budoff, MD, FACC
- 8:40 AM Pitfalls in Coronary CTA: How to Reduce and Deal with Artifacts
Todd C. Villines, MD
- 9:00 AM CT Fractional Flow Reserve (FFRCT)
Jon Leipsic, MD
- 9:20 AM CT Perfusion
Koen Nieman, MD
- 9:40 AM Quantification of Coronary Plaque: Prediction of Ischemia and Monitoring
Therapy
Damini Dey, PhD
- 10:00 AM Machine Learning: The Future of Cardiac Imaging
James Min, MD
- 10:20 AM Panel Discussion
Faculty: Todd C. Villines, MD; Matt Budoff, MD, FACC; Jon Leipsic, MD; Koen
Nieman, MD; Damini Dey, PhD; and James Min, MD
Moderator: Daniel S. Berman, MD, FACC
- 10:35 AM **Break/Exhibits/Break-out session#5 (TBD faculty)**

SESSION 13: BEST PAPERS AND BEST CASES

James K. Min, MD, Presiding

- 10:50 AM Cardiac CT
In My Clinical Practice: Overview of 25 Years
Tracy Callister, MD
- 11:10 am Top Ten Imaging Papers of the Year
James Min, MD

11:30 AM **BATTLE OF THE EXPERTS**
Challenging Unknown Coronary Cases from Clinical Practice
Presenter: Todd C. Villines, MD

12:30 PM Test your knowledge! Game-Show Jeopardy: Cardiac CT, Nuclear, MRI
Presenter: James K. Min, MD
Attendee participation. Prize awarded to winner

SESSION 14: CARDIAC CT IN AORTIC STENOSIS AND NON-CORONARY HEART DISEASE

Daniel S. Berman, Presiding

12:50 PM Important “Incidental” Findings on Non-Cardiac Findings on Coronary Calcium
and Attenuation Correction Scanning: A Simple, Standardized Approach
Tracy Callister, MD

1:10 PM Role of Cardiovascular CT in Transcatheter Aortic Valve Replacement (TAVR)
Jon Leipsic, MD

1:30 PM Putting It All Together: Multimodality Cardiac Imaging in the Era of Value-based
Imaging
Daniel S. Berman, MD, FACC

1:50 PM Panel Discussion
Faculty: Tracy Callister, MD; Jon Leipsic, MD; and Daniel S. Berman, MD, FACC
Moderator: James Min, MD

2:10 PM **Adjourn**