FRIDAY, JANUARY 17, 2020

7:15 AM Registration	n, Breakfast & Exhibits
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7:45 AM Course Overview and Objectives

Daniel S. Berman, MD

SESSION 1: INTERPRETING AND REPORTING SPECT/PET MPI CASES IN DAILY PRACTICE

Daniel S. Berman, MD, Presiding

8:00 AM Integrating Visual and Quantitative Analyses: Improving Your Scan

Interpretation—Case Illustrations

Sean W. Hayes, MD

8:40 AM Stress-only SPECT: Reducing Radiation and Increasing Efficiency

John Mahmarian, MD

9:00 AM Reducing the False Positive Rate: Artifacts on SPECT and PET MPI:

Case Illustrations Sean W. Hayes, MD

9:20 AM CAC Scanning in Patients Undergoing SPECT/PET MPI: Integrated Reporting of

MPI

Daniel S. Berman, MD

9:40 AM Pharmacologic Stress: Combined with Exercise or Alone: What You Need to Know

Sean W. Hayes, MD

10:15 AM Break/Exhibits/Break-Out Session #1 (Sean W. Hayes, MD)

SESSION 2: THE FUTURE OF NUCLEAR CARDIOLOGY

Daniel S. Berman, MD, Presiding

10:30 AM The Emergence of Competing Risk Factor Trends in the 21st Century: Its

Implications for Cardiac Testing

Alan Rozanski, MD

10:55 AM Patients' Capability to Exercise and Exercise Performance at the Time of Cardiac

Testing: The Variables that Still Get No Respect

Alan Rozanski, MD

11:25 AM KEYNOTE ADDRESS: The Future of SPECT/PET MPI in the Era of Expanding

CT

John Mahmarian, MD

12:00 PM Panel Discussion

Faculty: Drs. Alan Rozanski, Mahmarian, and Hayes, MD

Moderator: Daniel S. Berman, MD

12:15 PM	Lunch and Exhibits
12:30 PM	Optional CSMC Cardiac Imaging Laboratories Site Visit (No CME/CE credit)

SESSION 3: RADIOPHARMACEUTICALS, CAMERAS, SOFTWARE, RADIATION

Daniel S. Berman, MD, Presiding

1:00 PM	SPECT Imaging of Ventricular Function Serge Van Kriekinge, PhD
1:15 PM	F-18 Flurpiridaz: The Ideal MPI Radiopharmaceutical Jamshid Maddahi, MD
1:35 PM	Latest Hardware and Software Developments in SPECT and PET: The Emergence of Machine Learning Piotr Slomka, PhD

SESSION 4: CARDIAC AMYLOIDOSIS: THE MOST RAPIDLY GROWING NUCLEAR CARDIOLOGY APPLICATION

Daniel S. Berman, MD, Presiding

2:00 PM	Clinical Overview of Cardiac Amyloidosis: Pathophysiology, Phenotypes, Treatment Jignesh Patel, MD
2:15 PM	Role of Multimodality Imaging in Cardiac Amyloidosis: 2019 ASNC/AHA/ASE/EANM/HFSA/SCMR/SNMMI Consensus Recommendations: Sharmila Dorbala, MD
2:30 PM	Tc-99m Pyrophosphate (PYP) Imaging: Acquisition, Processing, Interpretation Panithaya Chareonthaitawee, MD
2:50 PM	Role of Tc-99m PYP and F-18 Amyloid Tracers in Monitoring Therapy Sharmila Dorbala, MD
3:05 PM	Amyloidosis: Case Presentations/Interpretation: CMR and PYP Presenter: Panithaya Chareonthaitawee, MD Discussants: Sharmila Dorbala, MD and Balaji Tamarappoo, MD, PhD
3:25 PM	Panel Discussion Faculty: Drs. Patel, Dorbala, Chareonthaitawee, and Tamarappoo Moderator: Daniel S. Berman, MD
3:40 PM	Break/Exhibits/Break-Out Session #2 Sharmila Dorbala, MD; Panithaya Chareonthaitawee, MD

SESSION 5.	MYOCAPDIAL	VIABILITY AND	NIICIEAD	CARDIOLOGY CASES
DEBBION DE	MICCARDIA	L VIABILII I AND	INUCLEAR	CARDIOLOGI CASES

Daniel S. Berman, MD, Presiding

3:45 PM Imaging for Myocardial Viability: Status in 2020

Robert Beanlands, MD

4:05 PM Myocardial Viability: Multimodality Assessment with SPECT, PET, and MRI: Classic

Cases

Jamshid Maddahi, MD

4:35 PM READ WITH THE EXPERTS: Challenging Cases with SPECT and PET

Presenter: John Friedman, MD

Discussants: Drs. Beanlands, Berman, Chareonthaitawee, Dorbala, Maddahi, and

Hayes

5:30 PM Panel Discussion

Faculty: Drs. Beanlands, Berman, Chareonthaitawee, Dorbala, Maddahi, Hayes,

and Friedman

Moderator: Daniel S. Berman, MD

5:45 PM Adjourn

SATURDAY, JANUARY 18, 2020

7:30 AM Breakfast and Exhibits

SESSION 6: MYOCARDIAL BLOOD FLOW (MBF) and MYOCARDIAL FLOW RESERVE (MFR) WITH PET, SPECT and CMR

Daniel S. Berman, MD Presiding

8:00 AM

	Robert Beanlands, MD
8:20 AM	MBF/MFR with PET: How to Perform, Quality Control, Interpret and Report Timothy Bateman, MD

8:40 AM MFR with SPECT: Ready for Prime Time?

Piotr Slomka, PhD

8:55 AM MBF/MFR with CMR: As Accurate as PET?

Behzad Sharif, PhD

9:10 AM MFR and FFR: Clinically Relevant Similarities and Differences

Clinical Value of MBF/MFR Measurements

Robert Beanlands, MD

9:30 AM Case Presentations: Myocardial Flow Reserve with PET

Timothy Bateman, MD

9:50 AM	How to Report MBF/MFR Measurements Robert Beanlands, MD
10:10 AM	Panel Discussion Faculty: Drs. Beanlands, Bateman, Slomka, and Sharif Moderator: Daniel S. Berman, MD
10:25 AM	Break/Exhibits/Break-Out Session #3 Robert Beanlands, MD

SESSION 7: SARCOIDOSIS and INFECTION

Daniel S. Berman, MD, Presiding

10:40 AM	Cardiac Sarcoidosis: Clinical Overview of the Disease and Role of Imaging with PET and MRI Sharmila Dorbala, MD
11:00 AM	Cardiac Sarcoidosis: Imaging with FDG PET: Practical Considerations Panithaya Chareonthaitawee, MD
11:20 AM	Assessing Valvular, Vascular, and Device Infections with F-18 FDG PET, Indium- 111 WBC's, and CT Angiography Louise Thomson, MBChB
11:40 AM	READ WITH THE EXPERTS: PET and CMR for Cardiac Sarcoidosis Presenter: John Friedman, MD Discussants: Sharmila Dorbala, MD; Panithaya Chareonthaitawee, MD
12:00 PM	Panel Discussion Faculty: Drs. Chareonthaitawee, Dorbala, Thomson, and Friedman Moderator: Daniel S. Berman, MD
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, Presiding

1:00 PM	Imaging in Cardiac Transplantation with PET, SPECT, and CMR Robert Miller, MD
1:15 PM	Pathogenesis of Atherosclerosis: Potential Targets for Plaque Molecular Imaging PK Shah, MD
1:30 PM	F-18 Fluoride Cardiovascular Imaging: The Coronary Arteries and Beyond Jacek Kwiecinski, MD, PhD

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Daniel S. Berman, MD, Presiding

1:45 PM KEYNOTE ADDRESS: The ISCHEMIA Trial - A Deep Dive into the Results

Leslee Shaw, PhD

2:15 PM Trial Strengths and Limitations

Robert Beanlands, MD

2:30 PM Implications for Coronary CTA

John Mahmarian, MD

2:45 PM Implications for Clinical Practice and Stress Imaging:

Timothy Bateman, MD

3:00PM Panel Discussion

Faculty: Drs. Shaw, Beanlands, Mahmarian, and Bateman

Moderator: Daniel S. Berman, MD

3:30 PM Break/Exhibits/Break-Out Session #4 (Timothy Bateman, MD)

SESSION 10: NUCLEAR CARDIOLOGY AND CARDIAC CT

Daniel S. Berman, MD, Presiding

3:45 PM Radiation Dose Reduction in SPECT, PET and Cardiac CT

Damini Dey, PhD

4:00 PM Coronary CTA and SPECT/SPECT Imaging in Patients with Chest Pain in the ED

John Mahmarian, MD

4:20 PM "2020 Vision": The Future of Cardiac Imaging from a Healthcare System

Perspective Jack Ziffer, MD

SESSION 11: CMR: CURRENT AND FUTURE POTENTIAL

Daniel S. Berman, MD, Presiding

4:45 PM When is CMR the Test of Choice? A Case-based Approach

Louise Thomson, MBChB

5:00 PM CMR for Myocardial Fibrosis, Edema, and Infarction

Rohan Dharmakumar, MD, PhD

5:15 PM A Game-changer in Performance of CMR: No Breath-holds, No ECG, No "Scouts"

in a Comprehensive 30 Minute Study

Anthony Christodoulou, PhD

5:30 PM Cardio-oncology: Broadening the Clinical Applications of Multimodality Imaging

Balaji K. Tamarappoo, MD, PhD

5:45 PM Panel Discussion

Faculty: Drs. Thomson, Dharmakumar, Christodoulou, and Tamarappoo

Moderator: Daniel S. Berman, MD

6:00 PM Adjourn

SUNDAY, JANUARY 19, 2020

7:30 AM Breakfast and Exhibits

SESSION 12: CARDIAC CT: CURRENT STATUS and FUTURE APPLICATIONS

James K. Min, Presiding

10:35	Break/Exhibits/Break-Out Session #6 Todd C. Villines, MD
10:20 AM	Panel Discussion Faculty: Drs. Villines, Niemen, Budoff, Callister, Dey, and Cheng Moderator: James K. Min, MD
10:00 AM	Coronary Artery Calcium (CAC) Scanning: Role in Asymptomatic and Symptomatic Patients Matt Budoff, MD
9:40 AM	Quantification of Coronary Plaque: Prediction of Risk-Prediction, Ischemia and Monitoring Therapy Damini Dey, PhD
9:20 AM	Ischemia Evaluation with Coronary CTA: CT-FFR and CT Perfusion Koen Nieman, MD
9:00 AM	Central Role of Coronary CTA in Clinical Practice Tracy Callister, MD
8:40 AM	Whole-Heart Atherosclerosis Characterization: A New Way to Predict Risk and Guide Revascularization James K. Min, MD
8:20 AM	Pitfalls in Coronary CTA: Problematic Cases Victor Cheng, MD
8:00 AM	Coronary CTA: Interpretation and Reporting CTA Todd C. Villines, MD

SESSION 13: BEST PAPERS AND BEST CASES

James K. Min, MD, Presiding

10:50 AM
Top Ten Imaging Papers of the Year
James K. Min, MD

11:20 AM
BATTLE OF THE EXPERTS
Challenging Unknown Coronary Cases from Clinical Practice
Presenter: Todd C. Villines, MD
Reading Teams: Drs. Min, Nieman, and Callister vs Drs. Budoff, Cheng, and Friedman

12:20 PM
Game-Show Jeopardy: Cardiac CT, Nuclear, and CMR
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

12:40 PM	Cardiac Applications in Structural Heart Disease Raj Makkar, MD
1:00 PM	Cardiac CT for Left Atrial Appendage Thrombus and Closure Devices, Pulmonary Veins, Cardiac Masses, and Shunts Louise Thomson, MBChB
1:20 PM	Assessments Known CAD with Coronary CTA Matt Budoff, MD
1:40 PM	Incidental" Non-Cardiac Findings on Cardiac CT: A Simple, Standardized Approach Tracy Callister, MD
2:00 PM	Putting It All Together: Multimodality Cardiac Imaging in the Era of Value-based Imaging Daniel S. Berman, MD
2:20 PM	Adjourn