



CEDARS-SINAI®
HEART INSTITUTE

Advances in Nuclear Cardiology and Cardiac CT: 32nd Annual Case Review with the Experts *with 101 Evidence-based Cases*

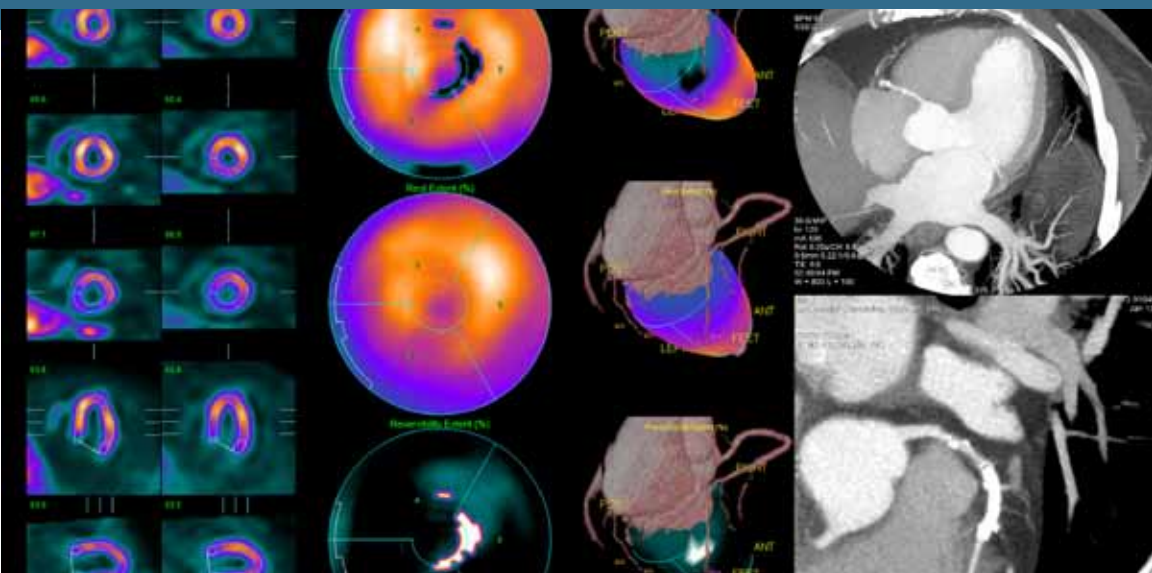
FRIDAY, JANUARY 20, 2017 – SUNDAY, JANUARY 22, 2017

COURSE DIRECTORS

Daniel S. Berman, MD, FACC, FSCCT
Guido Germano, PhD, MBA, FACC
James K. Min, MD, FACC, FSCCT

CONFERENCE LOCATION

Cedars-Sinai Medical Center
Harvey Morse Conference Center
8701 Gracie Allen Dr.
Los Angeles, California 90048



“Case Review with the Experts” offer attendees practical experience in case interpretation, reporting and medical decision making from leading clinicians and scientists in cardiac imaging.

For the latest course information and to register, visit cedars-sinai.edu/nuclearcardiologycme

Offered in cooperation with the American Society of Nuclear Cardiology,
the California Chapter of the American College of Cardiology, the International Academy of Cardiology
and the Society of Cardiovascular Computed Tomography



California
CHAPTER



INTERNATIONAL
ACADEMY OF
CARDIOLOGY



SOCIETY OF
CARDIOVASCULAR
COMPUTED TOMOGRAPHY

ACTIVITY INFORMATION

COURSE DESCRIPTION AND STATEMENT OF NEED

A major national healthcare imperative for noninvasive imaging is to use the tests in a manner that provides value. This directive couples two major goals, which entails using imaging resources judiciously while ensuring the proper image application to identify and guide therapy for at-risk patients to improve clinical outcomes. To this end, nuclear cardiology, cardiac CT and cardiac MRI studies provide powerful tools that physicians must optimally perform, interpret, report and act upon, and order for the right patients.

Additionally, effective methods to reduce radiation exposure need to be implemented to maximize patient safety. The objectives of the program are designed to meet the current needs of professionals who perform or request nuclear cardiology, cardiac CT or cardiac MRI studies. Using these studies optimally requires knowledge of best practices for the modalities, from performing to reporting the studies, the evidence base regarding their use, the relevant appropriateness of their use in specific clinical settings, and the treatment options that should be recommended based on the results.

We are pleased to be able to meet these educational needs through a live three-day symposium titled *Advances in Nuclear Cardiology and Cardiac CT: 32nd Annual Case Review with the Experts, with 101 Evidence-based Cases*. The course emphasizes using these modalities across the spectrum of patients routinely seen day-to-day by physicians in a typical practice, for evaluating individuals with suspected or known coronary disease as well as other non-coronary cardiac disease states. With a stellar faculty, *Advances in Nuclear Cardiology and Cardiac CT: 32nd Annual Case Review with the Experts, with 101 Evidence-based Cases* will provide the latest information in nuclear cardiology, cardiac CT and cardiac MRI using images and clinical correlations from 101 cases as the principal teaching method. The course is designed to increase quality in performing, interpreting, reporting and applying nuclear cardiology and cardiac CT studies.

TARGET AUDIENCE

This educational activity is intended for cardiologists, radiologists, nuclear medical specialists, cardiac imaging technologists and nurse practitioners in the field.

ACCREDITATION STATEMENT

Cedars-Sinai Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

HOTEL ACCOMMODATIONS

Sofitel Los Angeles at Beverly Hills
8555 Beverly Blvd.
Los Angeles, CA 90048
800-521-7772

CSMC has arranged for a block of rooms at the Sofitel Los Angeles at Beverly Hills. Please note at this time that the hotel only has a limited number of Superior King rooms at a special conference rate of \$269 per night, plus tax. Rooms at our special rate are available until January 12, 2017.

Reservations will be accepted on a space- and rate-availability basis, and the special group rate is not guaranteed. To make reservations for the Sofitel Los Angeles, call 800-521-7772 as soon as possible.

There are instances where the room block sells out prior to the cut-off date. Reservations are taken on a first-come, first-served basis. Be sure to state that you are attending the Cedars-Sinai Clinical Nuclear Cardiology Conference in order to receive the special group rate.

CREDIT DESIGNATION STATEMENT

Cedars-Sinai Medical Center designates this live activity for a maximum of 25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CE CREDIT FOR TECHNOLOGISTS

The American Society of Nuclear Cardiology is a recognized provider of continuing education credit for technologists. ASNC's Continuing Education (CE) credit is accepted by the NMTCB and ARRT.

Approved by the American Society of Nuclear Cardiology for a maximum of 21.25 ARRT Category A credits for technologists.

MENTORED CT CASE REVIEW DOCUMENTATION

In addition to obtaining CME credits, physician attendees will be offered documentation reflecting their participation in mentored cases completed during the workshops. This documentation can be given to the appropriate credentialing organization to indicate credit for case completion.

NURSES

The California State Board of Registered Nursing accepts courses approved by the ACCME for Category 1 credit as meeting the continuing education requirements for license renewal.

POLICY ON DISCLOSURE

It is the policy of Cedars-Sinai Medical Center to ensure balance, independence, objectivity and scientific rigor in all its educational activities. Cedars-Sinai Medical Center assesses conflicts of interest with its faculty, planners and managers of CME activities. Conflicts of interest that are identified are resolved by reviewing that presenter's content for fair balance and absence of bias, scientific objectivity of studies utilized in this activity, and patient care recommendations.

While Cedars-Sinai Medical Center endeavors to review faculty content, it remains the obligation of each physician or other healthcare practitioner to determine the applicability or relevance of the information provided from this course in his or her own practice.

ACKNOWLEDGMENT OF COMMERCIAL SUPPORT

Commercial support for this conference is pending and will be acknowledged at the conference.

REGISTRATION

REGISTRATION METHODS

ONLINE registration: go to cedars-sinai.edu/cme and click on CME Course Calendar.

MAIL form to: Cedars-Sinai Medical Center
Office of Continuing Medical Education
Attn: Registration
8797 Beverly Blvd., Suite 250
Los Angeles, CA 90048

FAX form to: 310-423-8596

For additional course or registration information call 310-423-5548.

Please print clearly

LAST NAME _____ FIRST NAME _____

DEGREE _____ SPECIALTY _____

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*An email address is required to register for the conference.

REGISTRATION FEES

Member rates apply to ACC /ASNC /SCCT /IAC members:

	PHYSICIAN MEMBER	PHYSICIAN NON-MEMBER	ALLIED HEALTH MEMBER	ALLIED HEALTH NON-MEMBER	RESIDENT/ FELLOW
EARLY: Received by 12/26/16	☐ \$ 695	☐ \$ 895	☐ \$ 495	☐ \$ 595	☐ \$ 295
STANDARD: Received after 1/12/17	☐ \$ 795	☐ \$ 995	☐ \$ 595	☐ \$ 695	☐ \$ 395
LATE: Received after 1/12/17	☐ \$ 895	☐ \$ 1095	☐ \$ 695	☐ \$ 795	☐ \$ 450

CT SEGMENT ONLY (SAT/SUN)

	PHYSICIAN MEMBER	PHYSICIAN NON-MEMBER	ALLIED HEALTH MEMBER	ALLIED HEALTH NON-MEMBER	RESIDENT/ FELLOW
EARLY: Received by 12/26/16	☐ \$ 365	☐ \$ 465	☐ \$ 260	☐ \$ 310	☐ \$ 150
STANDARD: Received after 1/12/17	☐ \$ 420	☐ \$ 520	☐ \$ 310	☐ \$ 360	☐ \$ 200
LATE: Received after 1/12/17	☐ \$ 465	☐ \$ 565	☐ \$ 360	☐ \$ 410	☐ \$ 230

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CC NUMBER _____ CCV _____ EXP DATE ____/____/____

AUTHORIZED SIGNATURE _____

HOW DID YOU LEARN ABOUT THIS CME ACTIVITY?

- | | | |
|--|---|---|
| ☐ Brochure/Other Printed Materials | ☐ Cedars-Sinai Website | ☐ Email |
| ☐ Internet Search | ☐ Colleague | ☐ Past Participant |
| ☐ Internal Cedars-Sinai Communication | ☐ Other _____ | |

CONFIRMATION

In order to receive a registration confirmation, please provide your e-mail address.

If you do not receive a confirmation, please call 310-423-5548 to confirm your registration.

REFUND POLICY

All cancellations must be submitted in writing, and refunds will be subject to a \$100 administrative charge. No refunds will be given after January 12, 2017. Please e-mail cancellation requests to cme@cshs.org. If you do not receive confirmation of your cancellation via e-mail, please call 310-423-5548.

CANCELLATION POLICY

Cedars-Sinai reserves the right to cancel or reschedule programs due to circumstances beyond its control, or to close registration when programs are oversubscribed. Registrants are advised against purchasing nonrefundable airline tickets until they receive registration confirmation. Cedars-Sinai is not responsible for penalties incurred as a result of cancelled transportation costs.

MEETING MATERIALS

All meeting materials for this conference will be sent electronically.

AGENDA

FRIDAY, JANUARY 20, 2017

7:15 A.M.	Registration, Breakfast & Exhibits	
7:45	Welcome, Introduction, and Course Objectives	<i>Daniel S. Berman, MD, FACC</i>
	MYOCARDIAL PERFUSION/FUNCTION SPECT AND PET	<i>Daniel S. Berman, MD, presiding</i>
8:00	SPECT/PET-MPI: What is New in Tracers and Acquisition Protocols	<i>Jamshid Maddahi, MD, FACC</i>
8:30	The New Requirements: Technical and Regulatory Issues in Nuclear Cardiology	<i>Guido Germano, PhD, MBA, FACC</i>
8:50	Pharmacologic Stress: By Itself or Combined with Exercise: What You Need to Know (4 cases)	<i>Sean W. Hayes, MD</i>
9:30	The Nuclear Cardiology Consultation: Interpretation and Reporting of SPECT/PET-MPI (2 cases)	<i>Daniel S. Berman, MD, FACC</i>
10:00	Panel Discussion	Faculty: Drs. Maddahi, Germano and Hayes Moderator: Daniel S. Berman, MD, FACC
10:15	Break/Exhibits/Break-out Session #1	<i>Sean W. Hayes, MD</i>
10:30	Quantitative Analysis of Myocardial Perfusion and Function using SPECT and PET	<i>Guido Germano, PhD, MBA, FACC</i>
11:00	Latest Software Developments in SPECT and PET: Comparison of the Various Software Packages	<i>Piotr Slomka, PhD, FACC</i>
11:30	Integrating Visual and Quantitative Analyses: Improving Your Scan Interpretation – Case Illustrations (8 cases)	<i>Sean W. Hayes, MD</i>
12:15 P.M.	Panel Discussion	Faculty: Drs. Germano, Slomka and Hayes Moderator: Daniel S. Berman, MD, FACC
12:30	Lunch and Exhibits	
1:00	Optional CSMC Cardiac Imaging Laboratories Site Visit (Optional: no CME/CE credit)	<i>Amanda Swift</i>
1:15	Multimodality Assessment of Viability with SPECT, PET, and MRI: Classic Cases (6 cases)	<i>Jamshid Maddahi, MD, FACC</i>
1:45	Changing Paradigms in the Cardiac Stress Testing and Imaging	<i>Alan Rozanski, MD, FACC</i>
2:15	Artifacts on SPECT and PET MPI: How to Recognize and Deal with Them (7 cases)	<i>Sean W. Hayes, MD</i>
2:45	Coronary Artery Calcium Scanning: Up Front and Adding to Stress Testing? (2 cases)	<i>Alan Rozanski, MD, FACC</i>
3:15	Panel Discussion	Faculty: Drs. Hayes, Maddahi and Rozanski Moderator: Daniel S. Berman, MD, FACC
3:30	Break/Exhibits/Break-out Session #2	<i>Alan Rozanski, MD, FACC</i>
3:45	Phase Analysis of MPI and Radionuclide Ventriculography	<i>Serge Van Kriekinge, PhD</i>
4:15	New SPECT Cameras and Approaches to Reconstruction Protocols for Myocardial Perfusion SPECT	<i>Piotr Slomka, PhD, FACC</i>
4:30	BATTLE OF THE EXPERTS: SPECT and PET Face-off on Challenging Unknown Cases (9 cases)	Panelists: Drs. Berman and Hayes, vs. Drs. Maddahi and Di Carli Presenter: John D. Friedman, MD, FACC
5:30	Panel Discussion	Faculty: Drs. Hayes, Maddahi, Rozanski, DiCarli and Friedman Moderator: Daniel S. Berman, MD, FACC
6:00 P.M.	Adjourn	

SATURDAY, JANUARY 21, 2017

7:30 A.M.	Breakfast and Exhibits	
	CLINICAL APPLICATIONS OF NUCLEAR CARDIOLOGY	<i>Daniel S. Berman, MD, Presiding</i>
8:00	Stress Testing vs Cardiac CT: State of the Evidence from Randomized Trials and Registries	<i>Leslee Shaw, PhD, FACC</i>
8:30	Evaluation of Myocardial Viability: Is It Still Alive after STICH?	<i>Marcelo F. Di Carli, MD, FACC</i>
8:55	Multimodality Appropriate Use Criteria: Requirements at Point of Care and Point of Ordering – Effects of New Legislation:	<i>Gregory Thomas, MD, FACC</i>
9:15	Sarcoidosis, Amyloidosis, and Neuronal Imaging: New Opportunities for Nuclear Cardiology (4 cases)	<i>Marcelo F. Di Carli, MD, FACC</i>
9:45	Challenges for SPECT and PET in 2017: Stress-only, Reducing Radiation and Costs: Business Aspects of SPECT and PET: (2 cases)	<i>Timothy Bateman, MD, FACC</i>
10:15	Panel Discussion	Faculty: Drs. Shaw, DiCarli, Thomas and Bateman Moderator: Daniel S. Berman, MD, FACC
10:30	Break/Exhibits/Break-out Session #3	<i>Marcelo F. Di Carli, MD, FACC</i>
	NEW AND FUTURE DEVELOPMENTS IN PET AND SPECT	<i>Guido Germano, PhD, presiding</i>
10:45	Coronary Flow Reserve with PET and SPECT: Integration into Clinical Practice	<i>Timothy Bateman, MD, FACC</i>
11:10	SPECT and PET: Best Cases I Ever Saw (6 cases)	<i>John D. Friedman, MD, FACC</i>
11:40	Pathogenesis of Atherosclerosis: Potential Targets for Plaque Molecular Imaging	<i>Prediman K. Shah, MD, MACC</i>
12:05	F-18 Imaging of the Coronary Arteries and the Aortic Valve: Potential Role in Patient Management	<i>Marc Dweck, MD, PhD</i>
12:30	Panel Discussion	Faculty: Drs. Bateman, Shah, Friedman and Dweck Moderator: Guido Germano, PhD, FACC

12:45	Lunch and Exhibits	
1:00	CSMC Cardiac Imaging Laboratories Site Visit (Optional: no CME/CE credit)	<i>Mina Sadeghi</i>
NUCLEAR CARDIOLOGY AND CARDIAC CT		<i>Daniel S. Berman, MD, presiding</i>
1:30	Beyond Perfusion Imaging: Phase Analysis of MPI and Radionuclide Ventriculography	<i>Serge Van Kriekinge, PhD</i>
1:45	How Low Can We Go? Reducing Radiation in CT, SPECT, and PET	<i>Damini Dey, PhD</i>
2:00	Don't Miss It: Non-cardiac Findings on CT during Coronary Calcium, Attenuation Correction Scanning, and Coronary CTA (6 cases)	<i>Jonathon Leipsic, MD, FACC</i>
2:30	Coronary CTA and Myocardial Perfusion Imaging in Patients with Chest Pain in the ED: Improving Care While Reducing Costs (4 cases)	<i>Jack Ziffer, PhD, MD, FACC</i>
3:00	Panel Discussion	Faculty: <i>Drs. Dey, Ziffer, Van Kriekinge and Leipsic</i> Moderator: <i>Guido Germano, PhD, FACC</i>
3:15	Break/Exhibits/Break-out Session #4	<i>Jack Ziffer, PhD, MD, FACC</i>
COMPARATIVE ROLES CARDIAC CT, CARDIAC MRI, AND NUCLEAR CARDIOLOGY		<i>Jack Ziffer, PhD, MD, FACC, Presiding</i>
3:30	Top Ten Imaging Papers of the Year	<i>James K. Min, MD, FACC</i>
4:00	The Times They Are a-Changin: The New Health Care System Perspective	<i>Jack Ziffer, PhD, MD, FACC</i>
4:30	Cardiac MRI for Myocardial Fibrosis, Edema, and Hemorrhage	<i>Rohan Dharmakumar, PhD</i>
4:45	Novel Approaches in Cardiac MRI: Combined Myocardial Perfusion, Flow Reserve, and Coronary Artery Imaging	<i>Debiao Li, PhD</i>
5:00	Physiologic Assessment of Coronary Disease by CT: Fractional Flow Reserve by Coronary CTA (4 cases)	<i>James K. Min, MD, FACC</i>
5:30	Panel Discussion	Faculty: <i>Drs. Min, Ziffer, Dharmakumar and Li</i> Moderator: <i>Daniel S. Berman, MD, FACC</i>
5:45	Adjourn	
SUNDAY, JANUARY 22, 2017		
7:30 AM	Breakfast and Exhibits	
GROWTH OF CARDIAC CT AND ITS RELATIONSHIP TO NUCLEAR CARDIOLOGY AND CARDIAC MRI		<i>James K. Min, MD, FACC, Presiding</i>
8:00	Coronary CT Angiography—High Quality and Low Radiation: What is new? (2 cases)	<i>Stephan Achenbach, MD, FACC</i>
8:30	Interpretation and Reporting of Coronary CTA (4 cases)	<i>John Lesser, MD, FACC</i>
9:00	Central Role of Cardiac CT in Clinical Practice: A 20 year experience (3 cases)	<i>Tracy Callister, MD, FACC</i>
9:30	Panel Discussion	Faculty: <i>Drs. Callister, Achenbach and Lesser</i> Moderator: <i>James K. Min, MD, FACC</i>
9:45	Break/Exhibits/Break-out Session #5	<i>Stephan Achenbach, MD, FACC</i>
10:00	Dealing with CT Artifacts: Practical Guide to Image Interpretation (5 cases)	<i>Stephan Achenbach, MD, FACC</i>
10:30	Coronary Plaque, Stenosis, and Ischemia: What's Really Important?	<i>Tracy Callister, MD, FACC</i>
10:55	BATTLE OF THE EXPERTS: CT Face-off on Challenging Unknown Cases (8 cases)	Panelists: <i>Drs. Lesser, Min and Thomson vs. Drs. Friedman, Callister and Budoff</i> Presenter: <i>Stephan Achenbach, MD, FACC</i>
11:55	Game-Show Jeopardy: Nuclear and CT - You don't want to miss it! <i>Attendee participation. Prize awarded to winner</i>	Presenter: <i>James K. Min, MD, FACC</i>
12:25 PM	Lunch and Exhibits	
12:55	Coronary Calcium Scoring: Central Role in a Preventive Algorithm: A Case-Based Approach (4 cases)	<i>Matthew Budoff, MD, FACC</i>
1:20	Role of Cardiovascular CT in Transcatheter Aortic Valve Replacement (TAVR): A Case-Based Approach (4 cases)	<i>Jonathon Leipsic, MD, FACC</i>
1:45	Practical Coronary CTA Applications beyond Diagnosis of CAD: Post-PCI, Post-CABG, and Cardiomyopathy (5 cases)	<i>Matthew J. Budoff, MD, FACC</i>
2:10	Quantification of Coronary Plaque: Added Value over Stenosis	<i>Damini Dey, PhD</i>
2:30	When is Cardiac MRI the Test of Choice: Case-based Approach (6 cases)	<i>Louise E. J. Thomson, MBChB, FRACP</i>
2:55	Cardiac CT at 20 Patients a Day: Where Do MRI and Nuclear Cardiology Fit in? (6 cases)	<i>John Lesser, MD</i>
3:20	Multimodality Cardiac Imaging: Its Use in the Era of Value-based Imaging	<i>Daniel S. Berman, MD, FACC</i>
3:50	Panel Discussion	Faculty: <i>Drs. Leipsic, Budoff, Dey, Thomson and Lesser</i> Moderator: <i>Daniel S. Berman, MD, FACC</i>
4:05	Adjourn	

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Serge D. Van Krieking, PhD

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Register Today!

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FRIDAY, JANUARY 20, 2017 - SUNDAY, JANUARY 22, 2017
CEDARS-SINAI MEDICAL CENTER, LOS ANGELES, CA

UNIQUE PROGRAM FEATURES INCLUDE:

- 101 cases focusing on technical and clinical problems commonly encountered in practice
- Latest instrumentation/protocols to improve accuracy and reduce radiation
- How to use imaging procedures to improve patient outcomes and/or reduce costs
- Evidence supporting value-based imaging
- “Battle of the Experts” case presentation sessions in nuclear cardiology and cardiac CT

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