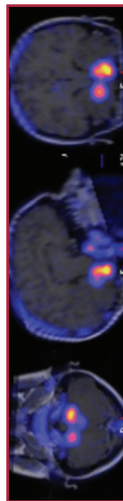




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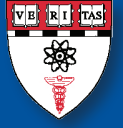


**Clinical Nuclear Medicine/PET  
May 15-18, 2012**

Design by: Anna E. McCormick-MIT

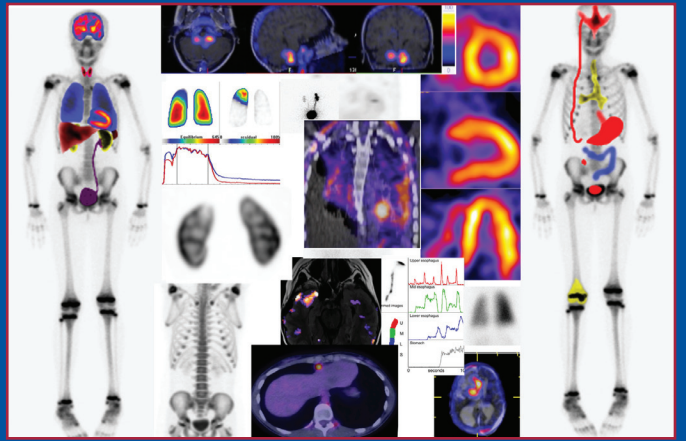


Harvard Medical School  
Department of Continuing Education



Joint Program in Nuclear Medicine  
Department of Radiology

# CLINICAL NUCLEAR MEDICINE / PET



## MAY 15-18, 2012

*The Fairmont Copley Plaza  
Boston, Massachusetts, USA*

### PROGRAM DIRECTOR

*S Ted Treves, MD, FACNP*

### PROGRAM COMMITTEE

*Marcelo F Di Carli, MD, FACC*

*Frederick D Grant, MD*

*J Anthony Parker, MD, PhD*

*Annick D Van den Abbeele, MD*

- \* Harvard Medical School designates this live activity for a maximum of 29.75 AMA PRA Category 1 Credits™.
- \* This course is pending approval by the American Board of Nuclear Medicine and American Board of Radiology for Self Assessment Credits (SAM). As of this printing, we have not received approval.
- \* Technologists - Pending approval for CE credit by the ASRT.

## COURSE DESCRIPTION

As both new technologies and clinical applications evolve rapidly, practitioners in the field of Nuclear Medicine may not be up-to-date with new information. The objective of the course is to review established clinical applications as well as new and emerging ones within the specialty of nuclear medicine. Using lectures on various topics in this field as well as case-based studies with interactive audience participation, the participants will be engaged in reviewing and learning established and new clinical indications, findings, interpretations and technology innovations. In addition, physicians will be given an opportunity to work towards their Maintenance of Certification by taking Self-Assessment Modules (SAM). We are planning 10 SAM modules. Technologists may work towards CE credits.

## WHO SHOULD ATTEND

This course is directed to nuclear medicine physicians, radiologists practicing nuclear medicine, fellows, resident medical students and technologists.

## OBJECTIVES

Upon completion of this course, participants will be able to:

- Immediately apply newly-acquired competencies to the selection, implementation and interpretation of nuclear medicine studies
- Increase diagnostic accuracy utilizing various nuclear medicine applications
- Develop treatment plans tailored to individual patient profiles. Improve overall disease management and patient outcomes by introducing state-of-the-art techniques into clinical practice

## GUEST FACULTY

**Leonard M Freeman, MD:** Professor of Radiology, Albert Einstein College of Medicine; Chief, Division of Nuclear Medicine, Montefiore Medical Center, Bronx, NY

**Gary V Heller, MD, PhD, FACC:** Professor of Medicine and Diagnostic Imaging, University of Connecticut School of Medicine, Farmington, CT; Director of Nuclear Cardiology, Associate Director of Cardiology Division, Hartford Hospital, Hartford, CT

**Christopher J Palestro, MD:** Professor of Radiology, Hofstra North Shore-LIJ School of Medicine; Chief of Nuclear Medicine and Molecular Imaging, North Shore Long Island Jewish Health System, Manhasset and New Hyde Park, NY

**Eric Rohren, MD:** Associate Professor of Nuclear Medicine; Section Chief, Positron Emission Tomography, The University of Texas MD Anderson Cancer Center, Houston, TX

**Harvey A Ziessman, MD:** Professor of Radiology, Director of Nuclear Medicine Imaging, Johns Hopkins University, Baltimore, MD

## HARVARD MEDICAL SCHOOL FACULTY

**S James Adelstein, MD, PhD:** Paul C Cabot Distinguished Professor of Medical Biophysics, Harvard Medical School, Boston, MA

**Ron Blankstein, MD:** Instructor in Medicine; Co-Director, Non-Invasive Cardiovascular Imaging Training Program, Cardiovascular Division and Department of Radiology, Brigham and Women's Hospital, Boston, MA

**Marcelo F Di Carli, MD, FACC:** Associate Professor of Radiology and Medicine; Chief, Division of Nuclear Medicine and Molecular Imaging, Director of Noninvasive Cardiovascular Imaging Program, Brigham and Women's Hospital, Boston, MA

**Kevin J Donohoe, MD:** Assistant Professor of Radiology; Associate Director, Radiology Residency Program, Division of Nuclear Medicine, Beth Israel Deaconess Medical Center, Boston, MA

**Sharmila Dorbala, MD, FACC:** Assistant Professor of Radiology; Director of Nuclear Cardiology; Brigham and Women's Hospital, Boston, MA

**Frederic H Fahey, DSc:** Associate Professor of Radiology; Director of Physics in Nuclear Medicine and Molecular Imaging, Children's Hospital Boston, Boston, MA

**David C Fisher, MD:** Assistant Professor of Medicine; Brigham and Women's Hospital, Dana-Farber Cancer Institute, Boston, MA

**Jeffrey R Garber, MD, FACP, FACE:** Associate Professor of Medicine; Chief Endocrinology, Harvard Vanguard Medical Associates, Boston, MA

**Frederick D Grant, MD:** Assistant Professor of Radiology and Pediatrics; Division of Nuclear Medicine and Molecular Imaging, Children's Hospital Boston, Boston, MA

**Thomas H Hauser, MD, MMSc, MPH, FACC:** Assistant Professor of Medicine; Director of Nuclear Cardiology, Beth Israel Deaconess Medical Center, Boston, MA

**Laura L Horky, MD, PhD:** Instructor in Radiology; Division of Nuclear Medicine, Brigham and Women's Hospital, Boston, MA

**Andetta Hunsaker, MD:** Assistant Professor of Radiology; Director, Thoracic Radiology, Brigham and Women's Hospital, Boston, MA

**Heather A Jacene, MD:** Assistant Professor of Radiology; Dana-Farber Cancer Institute, Brigham and Women's Hospital, Boston, MA

**Chun K Kim, MD:** Associate Professor of Radiology; Clinical Director, Division of Nuclear Medicine and Molecular Imaging, Brigham and Women's Hospital, Boston, MA

**Gad A Marshall, MD:** Assistant Professor of Neurology; Associate Medical Director of Clinical Trials, Memory Disorders Unit, Brigham and Women's Hospital, Boston, MA

**Mizuki Nishino, MD:** Assistant Professor of Radiology; Brigham and Women's Hospital and Dana-Farber Cancer Institute, Boston, MA

**Geoffrey R Oxnard, MD:** Instructor in Medicine; Lowe Center for Thoracic Oncology, Dana-Farber Cancer Institute, Boston, MA

**J Anthony Parker, MD, PhD:** Associate Professor of Radiology; Division of Nuclear Medicine, Beth Israel Deaconess Medical Center, Boston, MA

**Claus Reinsberger, MD, PhD:** Instructor in Neurology; Department of Neurology Brigham and Women's Hospital, Boston, MA

**Christopher G Sakellis, MD:** Instructor in Radiology; Division of Nuclear Medicine, Dana-Farber Cancer Institute, Boston, MA

**S Ted Treves, MD, FACNP:** Professor of Radiology; Director, Joint Program in Nuclear Medicine, Children's Hospital Boston, Boston, MA

**Annick D Van den Abbeele, MD:** Associate Professor of Radiology; Chief, Department of Imaging and Founding Director, Center for Biomedical Imaging in Oncology, Dana-Farber Cancer Institute; Co-Director, Tumor Imaging Metrics Core, Dana-Farber/Harvard Cancer Center, Boston, MA

**Jeffrey T Yap, PhD:** Assistant Professor of Radiology; Senior Diagnostic Physicist, Department of Imaging, Dana-Farber Cancer Institute, Boston, MA

**Katherine Zukotynski, MD:** Instructor in Radiology; Division of Nuclear Medicine, Dana-Farber Cancer Institute, Brigham and Women's Hospital, Boston, MA

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## TUESDAY, MAY 15

7:00	Registration/Continental Breakfast	
<b>SAM 1: Leader- Van den Abbeele</b>		
<b>Cancer Imaging Update: Practical Aspects</b>		
8:00	<i>Cancer Imaging Techniques: What Should You Know?</i>	Yap
8:30	<i>Joint Commission Sentinel Alert: What Should You Know?</i>	Yap
9:00	<i>Practical Clinical Aspects of PET/CT Imaging</i>	Zukotynski
9:30	Questions and Answers	
9:40	COFFEE BREAK	
<b>SAM 2: Leader- Van den Abbeele</b>		
<b>Solid Tumors Update</b>		
9:55	<i>Head and Neck</i>	Sakellis
10:25	<i>Muskuloskeletal Neoplasms</i>	Zukotynski
10:55	<i>Female Malignancies (Breast and Gyn)</i>	Sakellis
11:35	Questions and Answers	
11:45	LUNCH RECESS	
<b>SAM 3: Leader - Van den Abbeele</b>		
<b>Lung Cancer Update</b>		
1:00	<i>Lung Cancer: The Oncologist Point of View</i>	Oxnard
1:30	<i>Lung Cancer: The Nuclear Medicine Point of View</i>	Rohren
2:00	<i>Lung Cancer: Imaging of Lung Cancer in the Era of Molecular Medicine</i>	Nishino
2:30	Questions and Answers	
2:35	COFFEE BREAK	
<b>SAM 4: Leader - Jacene</b>		
<b>Hematology Oncology Update</b>		
2:50	<i>Lymphoma: The Oncologist Point of View</i>	Fisher
3:20	<i>Lymphoma: The Nuclear Medicine Point of View</i>	Jacene
3:50	<i>Multiple Myeloma</i>	Jacene
4:10	<i>Gastrointestinal Cancers</i>	Kim
4:40	<i>Melanoma Update</i>	Van den Abbeele
5:05	Questions and Answers	
5:15	Adjourn	

## WEDNESDAY, MAY 16

7:15	Continental Breakfast	
7:50	Welcome - Morning Announcements	
<b>SAM 5: Leader - Grant</b>		
<b>Diagnosis and Management of Thyroid and Parathyroid Diseases</b>		
8:00	<i>Benign Thyroid Diseases</i>	Grant
8:40	<i>Thyroid Cancer: Diagnosis and Management</i>	Garber
9:20	<i>Thyroid Cancer: Radioiodine Therapy</i>	Parker
9:50	COFFEE BREAK	
10:05	<i>SPECT/CT: Parathyroid and Thyroid</i>	Donohoe
10:45	<i>Neuroendocrine Imaging</i>	Grant
11:25	<i>Pediatric Nuclear Medicine</i>	Treves
12:00	LUNCH RECESS	
<b>SAM 6: Leader - Donohoe</b>		
<b>Nuclear Medicine Evaluation of Gastrointestinal and Hepatobiliary Diseases</b>		
1:15	<i>Hepatobiliary Imaging</i>	Ziessman
1:50	<i>Gastric Emptying</i>	Donohoe
2:25	<i>GI Bleeding</i>	Ziessman
3:00	COFFEE BREAK	
3:15	<i>Lymphoscintigraphy</i>	Kim
3:50	<i>Assessing and Minimizing Radiation Dose</i>	Fahey
4:30	<i>Case-Based Review</i>	Kim
5:00	Questions and Answers	
5:10	Adjourn	

\*Lectures in italics have been submitted for review and qualification by the ABNM and the ABR for SAM credit.

## THURSDAY, MAY 17

7:15	Continental Breakfast	
8:00	Radiation Risk	Adelstein
<b>SAM 7: Leader - Treves</b>		
<b>Brain Imaging Updates</b>		
8:45	<i>Imaging Neurodegenerative Diseases and Movement Disorders</i>	Horky
9:05	<i>Neurodegenerative Diseases and Movement Disorders: Clinical</i>	Marshall
9:25	<i>Epilepsy Imaging</i>	Horky
9:45	<i>Epilepsy: Clinical</i>	Reinsberger
10:00	COFFEE BREAK	
10:15	<i>Brain Tumors</i>	Horky
<b>SAM 8: Leader - Palestro</b>		
<b>Infection, Inflammation and Bone Imaging Updates</b>		
11:15	<i>Infection and Inflammation</i>	Palestro
12:00	LUNCH RECESS	
1:15	<i>Skeletal Scintigraphy</i>	Palestro
2:00	<i>Abnormal Biodistribution of Radiopharmaceuticals</i>	Freeman
2:30	<i>Multimodality Imaging of Pulmonary Embolism</i>	Hunsaker
3:05	COFFEE BREAK	
3:20	<i>Update in Pulmonary Scintigraphy</i>	Freeman
3:55	<i>Renal and Urological Imaging</i>	Treves
4:30	<i>Case-Based Review</i>	Freeman
5:00	Questions and Answers	
5:10	Adjourn	

## FRIDAY, MAY 18

7:15	Continental Breakfast	
7:55	Welcome	Di Carli
<b>SAM 9: Leader - Di Carli</b>		
<b>Advances in Cardiac SPECT Imaging</b>		
8:00	<i>SPECT Myocardial Perfusion Imaging: Radiotracers and Protocols</i>	Hauser
8:30	<i>Attenuation Correction for Cardiac SPECT: Strengths and Pitfalls</i>	Heller
9:00	<i>Novel Approaches to Stress Testing</i>	Dorbala
9:30	<i>Advances in Cardiac SPECT: Opportunities for Increased Efficiency and Reduced Dose</i>	Di Carli
10:00	COFFEE BREAK	
10:20	<i>Identifying and Preventing Artifacts in SPECT Imaging</i>	Dorbala
10:50	<i>Clinical Applications of Cardiac MIBG Imaging</i>	Heller
<b>SAM 10: Leader - Di Carli</b>		
<b>PET and CT Imaging of the Heart</b>		
11:20	<i>PET Myocardial Perfusion Imaging: Radiotracers and Protocols</i>	Dorbala
11:50	LUNCH RECESS	
1:00	<i>Assessing Ischemia and Viability in Patients with Ischemic Heart Failure</i>	Di Carli
1:30	<i>Which Patients Should we Image with PET: A Case-Based Approach?</i>	Heller
2:00	<i>Integrating Cardiac CT and Myocardial Perfusion imaging for Diagnosis and Management of CAD</i>	Blankstein
2:40	<i>Incorporating Quantitative Coronary Flow Reserve for Diagnosis and Management of CAD</i>	Di Carli
3:10	COFFEE BREAK	
3:20	<i>Appropriate use of Cardiac SPECT and PET Imaging: A Case-Based Review of the Guidelines</i>	Hauser
3:50	<i>Case Based Review</i>	Afternoon Speakers
5:00	Adjourn	

Please note: Program changes/substitutions may be made without notice

## ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 29.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

We are applying for **Self Assessment Credit (SAM)** from the American Board of Radiology. As of this printing, we have not yet received approval and credit is pending.

**Technologists** - Pending approval for CE credit by the ASRT.

## ACGME COMPETENCIES

This course is designed to meet one or more of the following Accreditation Council of Graduate Medical Education competencies:

- \* Patient care
- \* Medical knowledge

## REGISTRATION INFORMATION

### Tuition Fee:

Physicians	\$875 (USD)
Residents/Fellows in Training	\$595 (USD)
Allied Health Professionals	\$595 (USD)

Registration by credit card (VISA or MasterCard) can be made at: [www.cme.hms.harvard.edu/courses/clinicalnuclear](http://www.cme.hms.harvard.edu/courses/clinicalnuclear). Registration by check (draft on a United States bank), please make payable to Harvard Medical School and mail with registration form to Harvard Medical School-Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your paid registration an email confirmation from the HMS-DCE office will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information including: registration confirmation, evaluation and certificate.

## INQUIRIES

By phone 617-384-8600, Monday-Friday, 10 AM to 4 PM (EST) or by email at: [hms-cme@hms.harvard.edu](mailto:hms-cme@hms.harvard.edu).

## ONLINE INFORMATION

To register or view activity information online, visit: [www.cme.hms.harvard.edu/courses/clinicalnuclear](http://www.cme.hms.harvard.edu/courses/clinicalnuclear). To ensure proper registration, please add the first three characters of the source code.

## DISCLOSURE POLICY

Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

## REFUND POLICY

A handling fee of \$60 is deducted for cancellation. Refund requests must be received by postal mail, email or fax one week prior this activity. No refunds will be made thereafter.

## COURSE LOCATION

All sessions will be held at the Fairmont Copley Plaza, 138 St. James Avenue, Boston, MA 02116 (617-267-5300).

## ACCOMMODATIONS/TRAVEL

A limited number of rooms have been reserved at The Fairmont Copley Plaza, Boston, MA (Telephone: 800-441-1414) until **April 27, 2012**. Please specify that you are enrolled in this activity to receive a reduced room rate of \$309/Fairmont Room per night Single/Double or \$339/ Deluxe Room per night Single/Double. You may also reserve your hotel reservations online via the dedicated booking website: <https://resweb.passkey.com/go/clinicalnuclearmedicine>. Please do not purchase non-refundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact the HMS Travel Desk toll free 1-877-4-HARVMD (1-877-442-7863) Monday - Friday 9 AM - 8 PM (EST). From outside the U.S., Canada and Virgin Islands please call 617-559-3764.

## CLINICAL NUCLEAR MEDICINE/PET Class # 322545

MAY 15-18, 2012

TUITION FEE

Physicians:	\$875 (USD)
Residents/Fellows in Training Technologists:	\$595 (USD)
Allied Health Professionals	\$595 (USD)

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First Middle Initial Last

Mailing Address \_\_\_\_\_  
Street City State Zip

Daytime Phone (\_\_\_\_\_) \_\_\_\_\_ Fax Number (\_\_\_\_\_) \_\_\_\_\_

*PLEASE NOTE: Your email address is used for critical information about the course including; registration confirmation, course evaluation and certificate. Please be sure to include an email address you check daily or frequently.*

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Profession \_\_\_\_\_ Degree \_\_\_\_\_

Primary Specialty (Physicians Only) \_\_\_\_\_

Board Certified: Yes  No

Professional School Attended (Physicians Only)

Harvard Medical School  U.S. Medical School  International

Year of Graduation \_\_\_\_\_

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