Harvard Medical School
Department of Continuing Education
Joint Program in Nuclear Medicine
Department of Radiology

CLINICAL NUCLEAR MEDICINE / PET

MAY 10-13, 2011
Boston Marriott Long Wharf
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 educational activity for a maximum of 28.25 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 VOICE credit by the SNM and CE credit by the ASRT.
Clinical Nuclear Medicine 2011 will cover emerging as well as established applications in nuclear medicine and molecular imaging. The course is specifically designed to encourage interactive audience participation via case-based discussions with clinical examples. Upon successful completion of the course, physicians will receive CME credit. In addition, physicians will be given an opportunity to work towards their Maintenance of Certification by taking Self-Assessment Modules (SAM). We are planning 9 SAM modules. Technologists may work towards VOICE and CE credits.

The course will cover most aspects of nuclear medicine practice including oncology, endocrinology, cardiology, neurology, pulmonary medicine, gastroenterology, urology, orthopedics, infection and inflammation, pediatrics and current trends and advances in PET instrumentation, and radiation dosimetry and risk.

Distinguished guest faculty and members of the faculty of the Harvard Medical School’s Joint Program in Nuclear Medicine (JPNM) will update physicians, scientists, and technologists on the latest techniques in nuclear medicine as well as those under development and slated for clinical implementation in the future. Specialists from other imaging modalities will join nuclear medicine specialists in discussing the importance of achieving multimodality correlations of functional and anatomical findings. Finally, faculty will offer a glimpse into new and emerging methodologies that are likely to become part of standard nuclear medicine practice within the next decade.

**OBJECTIVE**

The 35th Annual Harvard Course in Nuclear Medicine, CMA 2011, will review established and emerging applications with an emphasis on promoting interactive exchange among faculty and program participants. On successful completion, attendees will be able to 1) immediately apply newly-acquired competencies to the selection, implementation, and interpretation of nuclear medicine studies; 2) increase diagnostic accuracy utilizing various NM applications; 3) develop treatment plans tailored to individual patient profiles; and 4) improve overall disease management and patient outcomes by introducing state-of-the-art techniques into clinical practice.

**GUEST FACULTY**

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

Rathan Subramaniam MD, PhD, MClinEd: Associate Professor, Boston University School of Medicine; Divisions of Molecular Imaging/Nuclear Medicine and Neuroradiology, Boston Medical Center, Boston, MA

Ronald L Van Heertum, MD: Professor of Radiology, Executive Vice-Chair/CAO, Department of Radiology, Director, Division of Nuclear Medicine, New York Presbyterian Hospital, Columbia University Medical Center, New York, NY

Harvey A Zlessman, 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

Georges El Fakhri, PhD: Associate Professor of Radiology; Director, Molecular Imaging Physics, Instrumentation and Cyclotron, Associate Director, MGH PET Core, Massachusetts General 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

Frederick D Grant, MD: Instructor in 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

Matthew R Palmer PhD: Assistant Professor of Radiology; Division of Nuclear Medicine, Beth Israel Deaconess Medical Center, Boston, MA

J Anthony Parker, MD, PhD: Associate Professor of Radiology; Division of Nuclear Medicine, Beth Israel Deaconess Medical Center, 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; Chief, Nuclear Medicine and Molecular Imaging, 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; Site Director, Harvard Translational Imaging Consortium, Clinical Translational Science Award

Jeffrey Y 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
TUESDAY, MAY 10

7:00  Registration - Continental Breakfast
7:50  Welcome and Introduction

SAM 1: Leader - Van den Abbeele
Cancer Imaging: Practical Aspects
8:00  Cancer Imaging Techniques: What Should You Know?    Yap
8:35  Practical Clinical Aspects of PET/CT Imaging           Zukotynski
9:15  A Morning in the Life of a Cancer Imaging Practice   Zukotynski
9:50  COFFEE BREAK

SAM 2: Leader - Van den Abbeele
Cancer Imaging: Lymphoma
10:05 PET/CT Imaging of Lymphoma and Its Impact on Patient Management    Jacene
10:50 Radioimmunotherapy of Non Hodgkin’s Lymphoma    Jacene
11:40 LUNCH RECESS

SAM 3: Leader - Van den Abbeele
Cancer Imaging: Solid Tumors
1:00  Imaging of Musculoskeletal Neoplasms           Zukotynski
1:35  PET/CT in Gynecologic Malignancies           Sakellis
2:10  PET/CT in Head and Neck Malignancies           Sakellis
2:45  COFFEE BREAK
3:00  Alliation of Bone Pain: The Role of Nuclear Medicine Sakellis
3:35  Cancer Imaging as a Biomarker: Expanding Beyond Tumor Size Van den Abbeele
4:25  An Afternoon in the Life of a Cancer Imaging Practice Sakellis
5:00  Adjourn

WEDNESDAY, MAY 11

7:15  Continental Breakfast

SAM 4: Leader - Treves
Brain Imaging: Neurodegenerative Diseases, Epilepsy, and Brain Tumors
8:00  Brain Tumors           Horky
8:45  Epilepsy               Treves
9:30  Alzheimers and Dementia Van Heertum
10:15  COFFEE BREAK
10:30  Pediatrics           Treves

SAM 5: Leader - Palestro
Infection, Inflammation and Bone Imaging
11:10  Infection and Inflammation        Palestro
12:00  LUNCH RECESS

SAM 6: Leader - Donohoe
Gastrointestinal Nuclear Medicine: Hepatobiliary Imaging, Gastric Emptying and Gastrointestinal Bleeding
2:00  Hepatobiliary           Ziesman
2:35  Gastric Emptying          Donohoe
3:10  COFFEE BREAK
3:25  GI Bleeding                Ziesman
4:00  Cases                     Subramanian
4:45  Adjourn

THURSDAY, MAY 12

7:15  Continental Breakfast
8:00  Radiation Risk from Diagnostic Medical Exposures    Adelstein

SAM 7: Leader - Grant
Endocrinology: Imaging and Treating Thyroid and Parathyroid Disease
8:45  Benign Thyroid: Diagnosis and Therapy       Grant
9:30  Thyroid Cancer: Management and Therapy          Parker
10:05  COFFEE BREAK
10:20  SPECT/CT: Parathyroid and Thyroid              Donohoe
10:55  Neuroendocrine Tumors                        Grant
11:35  Accreditation                                Fahey/Palmer
12:05  LUNCH RECESS
1:20  Imaging Radiation Dose                        Fahey
1:55  Lymphoscintigraphy                           Kim
2:30  Instrumentation Update                      El Fakhri
3:05  COFFEE BREAK
3:20  Pulmonary Embolism                            Hunsaker
3:55  Cases                                        Kim
4:45  Adjourn

FRIDAY, MAY 13

7:15  Continental Breakfast
7:55  Welcome        Di Carli

SAM 8: Leader – Di Carli
Advances in Cardiac SPECT Imaging
8:00  SPECT Myocardial Perfusion Imaging: Radiotracers and Protocols     Hauser
8:30  Attenuation Correction for Cardiac SPECT: Strengths and Pitfalls   Heller
9:00  Advances in Pharmacological Stress Testing                     Dorbala
9:30  Advances in Cardiac SPECT: Opportunities for Increased Efficiency and Reduced Dose Di Carli
10:00  COFFEE BREAK
10:20  Identifying and Preventing Artifacts in SPECT Imaging          Dorbala
10:50  Measuring Ischemia in Patients with CAD: Implications of Clinical Trials for Nuclear Cardiology Heller
11:20  PET Myocardial Perfusion Imaging: Radiotracers and Protocols Dorbala
11:50  LUNCH RECESS

SAM 9: Leader - Di Carli
PET and CT Imaging of the Heart
10:50  Measuring Ischemia in Patients with LV Dysfunction         Di Carli
1:30  Implementing Cardiac PET into a busy SPECT Lab         Heller
1:50  Cardiac CT 101: Calcium Scoring and Coronary Angiography Blankstein
2:20  Integrating CT with Nuclear Imaging                      Di Carli
2:45  COFFEE BREAK
3:00  Appropriate Use of Cardiac SPECT and PET Imaging: A Case-Based Review of the Guidelines Hauser
3:40  Case Review        Cardiology Speakers
5:00  Adjourn

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

Please note: Program changes/substitutions may be made without notice.
**REGISTRATION INFORMATION**

For specific tuition fees, see the registration form. All foreign payments must be made by a draft on a United States bank, or by Visa or MasterCard. If paying by check, make it payable to Harvard Medical School and mail with the completed registration form to: Harvard Medical School, Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. If paying by credit card, please register online at [www.cme.hms.harvard.edu/courses/clinicalnuclear](http://www.cme.hms.harvard.edu/courses/clinicalnuclear). Telephone, fax or mail-in registration with credit card payment is not accepted. Inquiries should be directed to the above address, made by phone: (617) 384-8600, Monday-Friday, 10 am to 4 pm (EST), or by e-mail: hms-cme@hms.harvard.edu.

Please note: Upon receipt of your registration form an email confirmation from the HMS-DCE office will be sent to you. Therefore, be sure to include an email address that you check daily/frequently. Your email address is used for critical information about the course including: registration confirmation, course evaluation and certificate.

**REFUND POLICY**

A handling fee of $60 is deducted for cancellation. Refund requests must be received by mail or fax one week prior to the course. No refunds will be made thereafter.

**COURSE LOCATION**

All sessions will be held at the Boston Marriott Long Wharf, 296 State Street, Boston, MA, (617) 227-0800.

**ONLINE INFORMATION**

To register or view course information online, visit Harvard Medical School Department of Continuing Education’s home page: [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 found at the bottom of the registration form.

**ACCRREDITATION**

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

Harvard Medical School designates this educational activity for a maximum of 28.25
AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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

Technologists: Pending approval for VOICE credit by the SNM and CE credit by the ASRT.

**ACCOMMODATIONS**

Hotel rooms in Boston are limited. You are urged to make your reservations early. A limited number of rooms have been reserved at the Boston Marriott Long Wharf, 296 State Street, Boston, MA, (800) 228-9290 or (617) 227-0800 until April 15, 2011. Please specify that you are enrolled in the Clinical Nuclear Medicine/PET course to receive a reduced room rate.

**CLINICAL NUCLEAR MEDICINE/PET**

**Class # 312545**  
**May 10-13, 2011**

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<th>Role</th>
<th>Fee</th>
<th>Notes</th>
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<tr>
<td>Physicians</td>
<td>$875 (USD)</td>
<td>Reduced Fee for Residents*/Fellows in Training*</td>
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<tr>
<td>Technologists</td>
<td>$595 (USD)</td>
<td>*A letter of verification from the Department Chair must accompany the registration form for a reduced trainee fee.</td>
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**Street**

**City**   **State**   **Zip Code**

**Daytime Phone**   **Fax Number**

Please check if you wish to be excluded from receiving email notices of future HMS-DCE programs.

**Email Address**

**Professional School Attended**   **Year of Graduation**

**Profession**

**Primary Specialty (Physicians Only)**   **Board Certified:**  Yes ____   No ____

**Organization Affiliation**

**Registrations paid by credit card may be made online at:** [www.cme.hms.harvard.edu/courses/clinicalnuclear](http://www.cme.hms.harvard.edu/courses/clinicalnuclear)

**Online Registrants** - to ensure proper registration, please add the first three characters of the source code found here: **Source Code: XZZ**