



# CLINICAL NUCLEAR MEDICINE

*(Including PET)*

**April 27-30, 2004**

The Boston Marriott Copley Place  
Boston, Massachusetts, USA



**Program Director**  
*S Ted Treves, MD*

**Associate Program Director**  
*Leonard P Connolly, MD*

**Program Chairman**  
*S James Adelstein, MD, PhD*

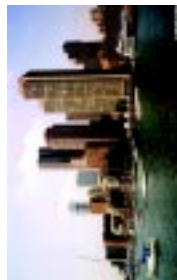
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## The Joint Program in Nuclear Medicine

Harvard Medical School

Beth Israel Deaconess Medical Center  
Brigham and Women's Hospital  
Children's Hospital  
Dana-Farber Cancer Institute  
Massachusetts General Hospital  
VA Boston Healthcare System

Harvard MED-CME  
PO Box 825  
Boston, MA 02117-0825



Clinical Nuclear Medicine  
April 27-30, 2004

## OBJECTIVE

The 28th annual course will review established and emerging applications of nuclear medicine. Attendees will enhance their knowledge and skills in ways that can be immediately applied to clinical decision making. The course will enable participants to improve their performance and interpretation of nuclear medicine studies and to introduce important new techniques into their clinical practices.

## COURSE DESCRIPTION

National guest faculty and members of the Harvard Joint Program in Nuclear Medicine will update physicians, scientists, and technologists on valuable techniques that can be immediately applied to the clinical practice of nuclear medicine. Attendees will gain insight into clinical challenges from recognized leaders in the field through a combination of lectures and interactive case-oriented review sessions. Topics will include assessment of myocardial perfusion and function, pulmonary embolism diagnosis, oncologic nuclear medicine, detection of infection and inflammation, renal scintigraphy, gastrointestinal and hepatobiliary imaging, skeletal scintigraphy, PET, nuclear thyroidology, and brain SPECT. Practical considerations regarding image interpretation, optimization of imaging techniques, and the role of nuclear medicine relative to other imaging modalities will be emphasized.

## GUEST FACULTY

**Alexander Gottschalk, MD:** Professor of Radiology, Michigan State University, East Lansing, MI

**Robert C Hendel, MD:** Professor of Medicine; Director, Coronary Care Unit, Director, Nuclear Cardiology, Section of Cardiology, Rush University Medical Center, Chicago, IL

**Steven M Larson, MD:** Professor of Radiology, Weill Cornell Medical College and Member, Memorial Sloan-Kettering Cancer Center, Chief of Nuclear Medicine Service, Director of Radiology Research, Director of the Laurent and Alberta Gerschel PET Center, and Head of Nuclear Medicine Research Laboratory, Department of Radiology, Memorial Sloan-Kettering Cancer Center, New York, NY

**Christopher J Palestro, MD:** Professor of Nuclear Medicine and Radiology, Albert Einstein College of Medicine; Director, Nuclear Medicine, Long Island Jewish Medical Center, New Hyde Park, NY

**Rachel A Powsner, MD:** Associate Professor of Radiology, Boston University Medical School; Section Head, Nuclear Medicine, VA Boston Healthcare System, Boston, MA

**Barry A Siegel, MD:** Professor of Radiology and Medicine, Washington University School of Medicine; Director, Division of Nuclear Medicine, Mallinckrodt Institute of Radiology, St Louis, MO

**Andrew Taylor, MD:** Professor of Radiology, Emory University School of Medicine; Co-Director, Division of Nuclear Medicine, Emory University Hospital, Atlanta, GA

**Ronald Van Heertum, MD:** Professor of Radiology, College of Physicians and Surgeons, Columbia University; Vice Chairman, Department of Radiology, Director, Division of Nuclear Medicine, Director, Kreitchman PET Center, New York Presbyterian Hospital, New York, NY

**Harvey A Zeissman, MD:** Director, Nuclear Medicine Imaging, Division of Nuclear Medicine, 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

**Ramsey D Badawi, PhD:** Assistant Professor of Radiology; PET Physicist, Division of Nuclear Medicine, Dana-Farber Cancer Institute

**Leonard P Connolly, MD:** Assistant Professor of Radiology; Associate Director, Resident/Fellow Training, Joint Program in Nuclear Medicine, Staff Physician, Division of Nuclear Medicine, Children's Hospital

**Karl B Coyner, PhD, MD:** Instructor in Radiology, Division of Nuclear Medicine, Brigham and Women's Hospital

**Marcelo F Di Carli, MD, FACC:** Assistant Professor of Radiology; Chief, Nuclear Medicine/PET, Brigham and Women's Hospital

**Kevin J Donohoe, MD:** Assistant Professor of Radiology; Staff Physician, Division of Nuclear Medicine, Beth Israel Deaconess Medical Center

**Sharmila Dorbala, MBBS:** Instructor in Radiology; Associate Director of Nuclear Cardiology, Division of Nuclear Medicine, Brigham and Women's Hospital

**Frederic H Fahey, D Sc:** Director of Nuclear Medicine/PET Physics, Children's Hospital

**Alan J Fischman, MD, PhD:** Professor of Radiology; Director, Division of Nuclear Medicine, Massachusetts General Hospital

**Victor H Gerbaudo, PhD:** Lecturer in Radiology; Director, Methodology and Operations, Division of Nuclear Medicine, Brigham and Women's Hospital

**Thomas C Hill, MD:** Associate Professor of Radiology; Radiologist, Division of Nuclear Medicine, Beth Israel Deaconess Medical Center

**J Anthony Parker, MD, PhD:** Associate Professor of Radiology; Associate Director, Resident/ Fellow Training, Joint Program in Nuclear Medicine; Radiologist, Division of Nuclear Medicine, Beth Israel Deaconess Medical Center

**Ahmed Tawakol, MD:** Instructor in Medicine; Associate Director, Nuclear Cardiology, Assistant in Medicine, Massachusetts General Hospital

**S Ted Treves, MD:** Professor of Radiology and Director, Joint Program in Nuclear Medicine, Harvard Medical School; Chief, Division of Nuclear Medicine and Vice Chairman for Information Technology, Department of Radiology, Children's Hospital Boston, Executive Director for Nuclear Medicine Programs, Brigham and Women's Hospital

**Annick D Van den Abbeele, MD:** Associate Professor of Radiology; Director, Nuclear Medicine/PET, Dana-Farber Cancer Institute, Director, Nuclear Medicine Oncologic Program, Dana-Farber Cancer Institute, Brigham and Women's Hospital

## Tuesday, April 27

|       |                                                               |
|-------|---------------------------------------------------------------|
| 7:50  | Welcome and Introduction<br><i>Treves</i>                     |
|       | <b>Moderator: Gerbaudo</b>                                    |
| 8:00  | PET Instrumentation<br><i>Badawi</i>                          |
| 8:30  | Questions                                                     |
| 8:35  | PET: Image Registration and Fusion Techniques<br><i>Fahey</i> |
| 9:05  | Questions                                                     |
| 9:10  | PET Artifacts/Variants<br><i>Siegel</i>                       |
| 9:55  | Questions                                                     |
| 10:00 | Break                                                         |
| 10:20 | Colorectal and Gastrointestinal Cancers<br><i>Larson</i>      |
| 11:05 | Questions                                                     |
| 11:10 | Pulmonary Nodule and Lung Cancer<br><i>Siegel</i>             |
| 11:55 | Questions                                                     |
| 12:00 | Lunch Recess                                                  |
|       | <b>Moderator: Hill</b>                                        |
| 1:15  | Head and Neck Cancer and Melanoma<br><i>Larson</i>            |
| 2:00  | Questions                                                     |
| 2:05  | Lymphoma<br><i>Van den Abbeele</i>                            |
| 2:50  | Questions                                                     |
| 2:55  | Break                                                         |
|       | <b>Moderator: Fischman</b>                                    |
| 3:15  | PET in Women's Imaging<br><i>Siegel</i>                       |
| 4:00  | Questions                                                     |
| 4:05  | PET and Oncology Cases<br><i>Van den Abbeele and Panel</i>    |
| 4:55  | Questions                                                     |
| 5:00  | Adjourn                                                       |

## Wednesday, April 28

|       |                                                                                                                |
|-------|----------------------------------------------------------------------------------------------------------------|
| 7:55  | Introduction<br><i>Treves</i>                                                                                  |
|       | <b>Moderator: Treves</b>                                                                                       |
| 8:00  | Pitfalls in VQ Interpretation<br><i>Gottschalk</i>                                                             |
| 8:30  | Questions                                                                                                      |
| 8:35  | Pulmonary Embolism: Interaction Between VQ Scans and Spiral CT, and an Overview of PLOPED<br><i>Gottschalk</i> |
| 9:05  | Questions                                                                                                      |
| 9:10  | Leukocyte Imaging in Infection and Inflammation<br><i>Palestro</i>                                             |
| 9:55  | Questions                                                                                                      |
| 10:00 | Break                                                                                                          |
|       | <b>Moderator: Connolly</b>                                                                                     |
| 10:20 | Sports Injuries<br><i>Connolly</i>                                                                             |
| 10:50 | Questions                                                                                                      |
| 10:55 | Osseous Infection<br><i>Palestro</i>                                                                           |
| 11:40 | Questions                                                                                                      |
| 11:45 | Correlation of Skeletal Scintigraphy with CT and MRI in Nuclear Oncology<br><i>Gottschalk</i>                  |
| 12:15 | Questions                                                                                                      |
| 12:20 | Lunch Recess                                                                                                   |
|       | <b>Moderator: Adelstein</b>                                                                                    |
| 1:35  | Nuclear Medicine of the Painful Joint Replacement<br><i>Palestro</i>                                           |
| 2:20  | Questions                                                                                                      |
| 2:25  | Renal Scintigraphy<br><i>Taylor</i>                                                                            |
| 3:10  | Questions                                                                                                      |
| 3:15  | Break                                                                                                          |
|       | <b>Moderator: Coyner</b>                                                                                       |
| 3:35  | Imaging Infection with FDG<br><i>Palestro</i>                                                                  |
| 4:05  | Questions                                                                                                      |
| 4:10  | Renal Cases<br><i>Taylor</i>                                                                                   |
| 4:55  | Questions                                                                                                      |

## Thursday, April 29

|       |                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------|
| 7:55  | Introduction<br><i>Treves</i>                                                                    |
|       | <b>Moderator: Di Carli</b>                                                                       |
| 8:05  | Tracers and Protocols for Myocardial Perfusion SPECT<br><i>Tawakol</i>                           |
| 8:35  | Questions                                                                                        |
| 8:40  | Interpreting and Reporting Gated SPECT: A Systematic Approach<br><i>Hendel</i>                   |
| 9:10  | Questions                                                                                        |
| 9:15  | Interpreting Discordances Between Myocardial Perfusion and Function<br><i>Dorbala</i>            |
| 9:45  | Questions                                                                                        |
| 9:50  | Attenuation Correction: Benefits and Pitfalls<br><i>Hendel</i>                                   |
| 10:20 | Questions                                                                                        |
| 10:25 | Break                                                                                            |
|       | <b>Moderator: Dorbala</b>                                                                        |
| 10:45 | Role of Myocardial Perfusion Imaging in Management Decisions<br><i>Di Carli</i>                  |
| 11:15 | Questions                                                                                        |
| 11:20 | Cardiac PET and PET/CT: How to Get Started?<br><i>Di Carli</i>                                   |
| 11:50 | Questions                                                                                        |
| 11:55 | Lunch Recess                                                                                     |
|       | <b>Moderator: Dorbala</b>                                                                        |
| 1:10  | Read with the Experts: Common and Challenging Cases<br><i>Tawakol, Dorbala, Di Carli, Hendel</i> |
| 2:40  | Questions                                                                                        |
| 2:45  | Break                                                                                            |
|       | <b>Moderator: Donohoe</b>                                                                        |
| 3:05  | Lymphoscintigraph<br><i>Donohoe</i>                                                              |
| 3:50  | Questions                                                                                        |
| 3:55  | General Nuclear Medicine Cases<br><i>Powsner</i>                                                 |
| 4:40  | Questions                                                                                        |
| 4:45  | Adjourn                                                                                          |

## Friday, April 30

|       |                                                                  |
|-------|------------------------------------------------------------------|
| 7:55  | Introduction<br><i>Treves</i>                                    |
|       | <b>Moderator: Parker</b>                                         |
| 8:00  | Y-90 Anti DC 20 Therapy for Low Grade Lymphoma<br><i>Parker</i>  |
| 8:30  | Questions                                                        |
| 8:35  | Renal Scintigraphy-Hepatobiliary Scintigraphy<br><i>Zeissman</i> |
| 9:20  | Questions                                                        |
| 9:25  | Break                                                            |
|       | <b>Moderator: Treves</b>                                         |
| 9:45  | Gastrointestinal Imaging<br><i>Zeissman</i>                      |
| 10:30 | Questions                                                        |
| 10:35 | Brain Imaging<br><i>Van Heertum</i>                              |
| 11:35 | Questions                                                        |
| 11:40 | Adjourn                                                          |

## 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 MED-CME, PO Box 825, Boston, MA 02117-0825**. If paying by credit card, fax the completed registration form to (617) 384-8686, register online at [www.cme.hms.harvard.edu](http://www.cme.hms.harvard.edu), or mail it to the above address. **Telephone registrations are not accepted.** Inquiries should be directed to the above address, made by phone: (617) 384-8600, Monday-Friday, 10 am to 4 pm (Eastern Time); or by e-mail: [hms-cme@hms.harvard.edu](mailto:hms-cme@hms.harvard.edu). Upon receipt of registration a confirmation letter will be mailed to the address listed on the form.

Tuition fee includes daily continental breakfast, coffee breaks and course syllabus.

## 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 Copley Place**, 110 Huntington Avenue, Boston, MA (617) 236-5800.

## 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 Copley Place** (800)-228-9290 or (617) 236-5800 until **April 4, 2004**. Please specify that you are enrolled in the **Clinical Nuclear Medicine** course to receive a reduced room rate.

## ONLINE INFORMATION

To register or view course information online, visit Harvard Medical School Department of Continuing Education's home page: <http://www.cme.hms.harvard.edu>

Learn more about The Joint Program for Nuclear Medicine (JPNM).

Visit the JPNM Web site: <http://www.jpnm.org>

## ACCREDITATION

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 24.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the educational activity.

## Clinical Nuclear Medicine

April 27-30, 2004

Class # 242545

Physicians: **\$750** (US)

Reduced Fee for Residents\*/Fellows in Training\*/Technologists: **\$475** (US)

\*A letter of verification from Department Chairman must accompany application for a reduced trainee fee.

### PLEASE PRINT CLEARLY

|                                                                                                                                                       |      |                                 |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|----------------|
| Full Name                                                                                                                                             | Last | First                           | Middle Initial |
| Degree                                                                                                                                                |      |                                 |                |
| Street                                                                                                                                                |      |                                 |                |
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| Email Address <input type="checkbox"/> Please check if you wish to be <b>excluded</b> from receiving email notices of future Harvard MED-CME programs |      |                                 |                |
| Professional School Attended                                                                                                                          |      | Year of Graduation              |                |
| Profession                                                                                                                                            |      |                                 |                |
| Principal Specialty                                                                                                                                   |      | Board Certified: Yes ___ No ___ |                |
| Institutional Affiliation                                                                                                                             |      |                                 |                |

### Form of Payment (please check one)

Check is enclosed:

Please make your check payable to *Harvard Medical School* and mail it with this registration form to: **Harvard MED-CME, PO Box 825, Boston, MA 02117-0825**

Bill my credit card:  VISA  MASTERCARD

Credit Card Number \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Expiration Date \_\_\_\_\_ Signature \_\_\_\_\_

Registrations paid by credit card can be faxed to 617-384-8686, or mailed to the above address.

Tuition Fee: \$ \_\_\_\_\_

Source Code: X