An intensive review of radiology through a series of lectures and case review sessions.

KEY TOPICS
Breast, Cardiac, Thoracic, Gastrointestinal, Genitourinary, Musculoskeletal, Neuroradiology, Nuclear Medicine, Pediatrics, Trauma, Ultrasound

PROGRAM CO-DIRECTORS
Barbara N Weissman, MD
Theresa C McLoud, MD

COURSE DESCRIPTION
The breadth and scope of imaging procedures continues to increase. This course provides a review of the imaging findings in various disease states using a wide variety of clinically available imaging modalities. Pitfalls in image interpretation and the optimal methods for imaging various structures and disorders and are reviewed. Sessions on dose reduction in CT and treatment of contrast reactions are provided. Focused sessions provide a better understanding of the maintenance of certification process in radiology. Audience participation will be available for case review sessions. Thus, while the educational format will largely be didactic lectures supplemented by question and answer periods, small focused group sessions, judicious use of audience participation and self assessment modules (SAMS) tailored to the course material will be used.

Knowledge gaps that this course addresses include those due to limited experience with newer imaging modalities for diagnosis. This course seeks to review the use and optimization of these newer modalities in disorders that may be encountered in daily practice. In addition, new regulations are now in place for maintenance of certification. Experience with these regulations is limited. Workshops will be provided to help understand and successfully fulfill these requirements.
OBJECTIVES

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

• Interpret imaging findings in various abnormal conditions
• Select the appropriate use of imaging modalities for evaluation of patients with a variety of disorders
• Explain the MOC process
• Be better prepared to treat contrast reactions
• Identify methods for reducing radiation dose from CT scanning

WHO SHOULD ATTEND

This course is geared primarily for practicing radiologists and radiologists in training. Radiologic technologists and radiology assistants may also benefit from this course.

FACULTY

GUEST

John W Millstine, MD: Nuclear and Diagnostic Radiologist, Scottsdale Medical Imaging, Ltd, Scottsdale, AZ

Joel S Newman, MD: Clinical Professor of Radiology, Tufts University School of Medicine; Chair, Radiology, New England Baptist Hospital, Boston, MA

Jan Stauss, MD: Radiologist, Medical X-Ray Consultants, Eau Claire, WI

HARVARD MEDICAL SCHOOL

Suhny Abbara, MD: Associate Professor of Radiology, HMS; Director, Cardiovascular Imaging Fellowship; Educational Director of Cardiac MR and CT program, Massachusetts General Hospital (MGH)

Gerald F Abbott, MD: Senior Lecturer on Radiology, HMS; Associate Radiologist, Division of Thoracic Imaging, MGH

Essmaeel H Abdel-Dayem, MD: Instructor in Radiology, HMS; Assistant Radiologist, Division of Abdominal Imaging and Intervention, MGH

Laura L Avery, MD: Instructor in Radiology, HMS; Assistant Radiologist, Division of Emergency Imaging, MGH

Carol B Benson, MD: Professor of Radiology, HMS; Director, Division of Ultrasound, Co-Director, High Risk Obstetrical Ultrasound, Brigham and Women’s Hospital (BWH)

Michael A Blake, MD: Assistant Professor of Radiology, HMS; Division of Abdominal Imaging, MGH

Bradley R Buchbinder, MD: Instructor in Radiology, HMS; Associate Radiologist, Division of Neuroradiology, MGH

Jeanne S Chow, MD: Assistant Professor of Radiology, HMS; Division of Urology and Pediatric Radiology, Children’s Hospital Boston

Garry Choy, MD: Instructor in Radiology, HMS; Division of Emergency Radiology and Teleradiology, MGH

Mary E Cunnane, MD: Instructor in Radiology, HMS; Assistant in Radiology, Massachusetts Eye and Ear Infirmary; Assistant in Radiology, Division of Neuroradiology, MGH

Sharmila Dorbala, MD, FACC: Assistant Professor of Radiology, HMS; Director of Nuclear Cardiology; Director of Non-Invasive Cardiovascular Fellowship Training Program, BWH

Peter M Doubilet, MD, PhD: Professor of Radiology, HMS; Senior Vice Chair of Radiology, BWH

Alejandra Duran-Mendicuti, MD: Instructor in Radiology, HMS; Division of Emergency Radiology, Department of Radiology, BWH

Sara M Durfee, MD: Assistant Professor of Radiology, HMS; Division of Ultrasound, BWH

Mary C Frates, MD, FACC: Associate Professor of Radiology, HMS; Assistant Director, Division of Ultrasound, BWH

Elisabeth P Frost, MD: Assistant Professor of Radiology, HMS, Division of Breast Imaging, BWH

Glenn C Gaviola, MD: Instructor in Radiology, HMS; Director, Musculoskeletal Imaging and Intervention Fellowship Program; Division of Musculoskeletal Imaging and Intervention, BWH

Michael S Gee, MD, PhD: Instructor in Radiology, HMS; Assistant Radiologist, Pediatric Imaging, Division of Abdominal Imaging and Intervention, MGH

Catherine S Giess, MD: Assistant Professor of Radiology, HMS; Division of Breast Imaging, BWH

Ritu R Gill, MD: Instructor in Radiology, HMS; Division of Thoracic Radiology, BWH

Alexander S R Guimaraes, MD, PhD: Assistant Professor of Radiology, HMS; Clinical Director, Martinos Center for Biomedical Imaging, MGH

Leena M Hamberg, PhD: Associate Professor of Radiology, HMS; Chief Radiology Physicist, BWH

Roger Han, MD: Instructor in Radiology, HMS; Division of Musculoskeletal Imaging and Intervention, BWH

Howard T Heller, MD: Instructor in Radiology, HMS; Division of Ultrasound; BWH

Ambrose J Huang, MD: Instructor in Radiology, HMS; Assistant Radiologist, Division of Musculoskeletal Imaging and Intervention, MGH

Andetta R Hunsaker, MD: Assistant Professor of Radiology, HMS; Director, Division of Thoracic Radiology, BWH

Delma Y Jarrett, MD: Instructor in Radiology, HMS; Staff Radiologist, Children's Hospital Boston

Bharti Khurana, MD: Instructor in Radiology, HMS; Division of Emergency Radiology, BWH
HARVARD MEDICAL SCHOOL FACULTY

Timothy P Killoran, MD: Instructor in Radiology, HMS; Division of Angiography and Interventional Radiology, BWH

Daniel B Kopans, MD: Professor of Radiology, HMS; Senior Radiologist, Breast Imaging Division, Avon Comprehensive Breast Evaluation Center, MGH

Edward Lee, MD, MPH: Assistant Professor of Radiology, HMS; Chief, Division of Thoracic Imaging, Departments of Radiology and Medicine, Pulmonary Division, Children's Hospital Boston

Timothy P Killoran, MD: Instructor in Radiology, HMS; Division of Angiography and Interventional Radiology, BWH

Hope E Peters, MD: Instructor in Radiology, HMS; Division of Thoracic Imaging, MGH

Bethany Niell MD, PhD: Instructor in Radiology, HMS; Director of Breast Magnetic Resonance Imaging, Avon Comprehensive Breast Center, MGH

Katherine Nimkin, MD: Assistant Clinical Professor of Radiology, HMS; Assistant Radiologist, Pediatric Imaging, MGH

Robert A Novelline, MD, FACR: Professor of Radiology, HMS; Director of Undergraduate Radiology Education, MGH

William E Palmer, MD: Assistant Professor of Radiology, HMS; Director, Musculoskeletal Imaging and Intervention, MGH

John J Pan, MD: Instructor in Radiology, HMS; Director, Musculoskeletal and Spine Interventions, BWH

Hope E Peters, MD: Instructor in Radiology, HMS; Division of Ultrasound, BWH

Thomas Ptak, MD, PhD: Assistant Professor of Radiology, HMS; Assistant Radiologist, Division of Emergency Imaging, MGH

Sughra Raza, MD: Assistant Professor of Radiology, HMS; Associate Director Breast Imaging, Director, Women’s Imaging Program, Director, Clinical Breast MRI, BWH

Sandra P Rincon, MD: Instructor in Radiology, HMS; Assistant Radiologist, Division of Neuroradiology, MGH

Daniel I Rosenthal, MD: Professor Radiology, HMS; Vice Chairman, Radiology, MGH

Frank J Rybicki, MD, PhD, FAHA: Associate Professor of Radiology, HMS; Director, Cardiac CT and Vascular CT/MRI, Director, Applied Imaging Science Lab, BWH

Cheryl A Sadow, MD: Instructor in Radiology, HMS; Division of Abdominal Imaging and Intervention, BWH

Gloria M Salazar, MD: Instructor in Radiology, HMS; Division of Vascular Imaging and Intervention, Director of Quality Assurance, Department of Radiology, MGH

Anthony Samir MD: Instructor in Radiology, HMS; Associate Director, Ultrasound Imaging Services, Assistant Radiologist, Abdominal Imaging and Intervention, MGH

Pamela W Schaefer, MD: Associate Professor of Radiology, HMS; Associate Director of Neuroradiology; Director of the Neuroradiology Fellowship, Clinical Director of MRI, MGH

Francis J Scholz, MD: Clinical Instructor in Radiology, HMS; Professor of Radiology, Tufts University School of Medicine, Radiologist, Lahey Clinic

Nehal Shah, MD: Instructor in Radiology, HMS; Division of Musculoskeletal Radiology, BWH

Amita Sharma, MD: Instructor in Radiology, HMS; Assistant Radiologist, Division of Thoracic Imaging, MGH

Jo-Anne O Shepard, MD: Professor of Radiology, HMS; Director of Thoracic Imaging and Intervention, BWH

Michael J Shortsleeve, MD, FACR: Assistant Clinical Professor of Radiology, HMS; Chair, Department of Radiology, Mount Auburn Hospital

Stuart G Silverman, MD, FACR: Professor of Radiology, HMS; Director, Division of Abdominal Imaging and Intervention, BWH

Kirstin M Small, MD: Instructor in Radiology, HMS; Division of Musculoskeletal Imaging and Intervention, BWH

Stacy E Smith, MD: Assistant Professor of Radiology, HMS; Associate Director, Ultrasound Imaging Services, Assistant Radiologist, Abdominal Imaging and Intervention, MGH

Michael L Steignerr, MD: Instructor in Radiology, HMS; Non-Invasive Cardiovascular Imaging, BWH

S Ted Treves, MD, FACP: Professor of Radiology, HMS; Division of Molecular Imaging and Nuclear Medicine, Children’s Hospital Boston

Beatrice Trotman-Dickenson, MD: Instructor in Radiology, HMS; Division of Thoracic Radiology, BWH

Kemal Tuncali, MD: Instructor in Radiology, HMS; Clinical Director, Interventional MRI, Associate Director of AMIGO, Department of Radiology, BWH

Raul N Uppot, MD: Assistant Professor of Radiology, HMS; Director, Abdominal Imaging Fellowship; Associate Director, Harvard Medical School Core Radiology Clerkship; Assistant Radiologist, Abdominal Imaging and Intervention, MGH

T Gregory Walker, MD, FSIR: Instructor in Radiology, HMS; Associate Director, Fellowship, Division of Vascular Imaging and Intervention, MGH

Michele M Walters, MD: Instructor in Radiology, HMS; Director of Education Residency Program Director, Department of Radiology, Children's Hospital Boston

Mary A Warner, MD: Instructor in Radiology, HMS; Division of Ultrasound, BWH

Barbara N Weissman, MD: Professor of Radiology, HMS; Vice Chair of Radiology, Director, Radiology Residency Program, BWH

Katherine Zukotynski, MD: Instructor in Radiology, HMS; Division of Nuclear Medicine, Dana-Farber Cancer Institute, BWH
SUNDAY, APRIL 1

7:00  Continental Breakfast

MUSCULOSKELETAL
7:50  Welcome  Weissman
8:00  Morning Cases: Bone  Han

SAM 1: Leader - Weissman
Tumors, Arthritis and FAI
8:30  Bone Tumors  Rosenthal
9:00  Arthritis  Weissman
9:30  Femoracetabular Impingement  Palmer
9:50  Questions
10:00  SAM 1: Tumors, Arthritis, FAI  Weissman
10:30  BREAK
10:45  MRI Knee Menisci - Pitfalls/Pearls  Huang
11:15  MRI Shoulder - The Rotator Cuff  Shah
11:35  MRI Shoulder - The Labrum  Small
11:55  Selected Sports Lesions about the Hip  Smith
12:20  Questions
12:25  LUNCH RECESS

PEDIATRICS
1:40  Airway/Chest  Lee
2:10  Musculoskeletal Injuries/Sports Injuries in Children  Jarrett
2:40  Pediatric GU  Chow
3:10  BREAK
3:30  Gastrointestinal  Nimkin
4:00  Pediatric Cases  Walters
4:30  Dose Reduction in CT  Hamberg
5:00  Questions
5:10  ADJOURN

MONDAY, APRIL 2

7:00  Continental Breakfast

GASTROINTESTINAL RADIOLOGY
7:15  Morning Cases: Gastrointestinal  Abdel-Dayem

SAM 2: Leader - Shortsleeve
Barium Examination of the GI Tract
7:45  Multimodality Imaging of Diseases of the GI Tract: Part I  Scholz
8:15  Multimodality Imaging of Diseases of the GI Tract: Part II  Shortsleeve
8:45  Imaging the Pancreas  Guimaraes
9:05  Questions
9:10  SAM 2: Barium Examination of the GI Tract  Shortsleeve
9:40  BREAK
9:55  Hepatic Biliary Imaging  Blake
10:35  Imaging Abdominal Trauma  Avery
11:05  Abdominal Ultrasound  Durfee
11:55  Questions
12:00  LUNCH RECESS

BREAST IMAGING
1:15  Evaluation of Calcifications  Kopans
1:45  Imaging of Breast Masses  Raza
2:30  Breast Ultrasound  Giess
2:50  Breast MRI  Niell
3:15  BREAK

MONDAY, APRIL 2 (cont’d)

CARDIAC
3:30  Acquired Heart Disease  Rybicki
4:15  Imaging of Coronary Artery Disease  Abbara
5:00  Questions and Answers
5:15  DINNER BREAK

EVENING MOC: Introduction
6:30  MOC Basics  McLoud
7:10  Questions
7:30  What is PQI?  Salazar
8:00  Group Discussion of Projects and Questions  Weissman/ Salazar/ McLoud
8:30  ADJOURN

TUESDAY, APRIL 3

7:00  Continental Breakfast

THORACIC
7:15  Morning Cases: Chest  Sharma

SAM 3: Leader - McLoud
Lung: Interstitial, Airways, and Pleural Disorders
7:45  Interstitial Lung Disease  McLoud
8:20  Airways  Gil
t
8:50  The Pleura  Muse
9:20  Questions
9:25  SAM 3: Lung: Interstitial/Airways/ Pleural Disorders  McLoud
9:55  BREAK
10:10  Mediastinum  Hunsaker
10:40  Imaging Thoracic Trauma  Novelline
11:10  Pulmonary Infections  Abbott
11:40  Lung Cancer, Nodules  Trotman-Dickenson
12:10  Questions
12:15  LUNCH RECESS

OB/GYN ULTRASOUND/MSK ULTRASOUND
1:30  1st Trimester  Doubilet
2:00  Fetal Anomalies I  Benson
2:30  Fetal Anomalies II  Frates
3:00  BREAK
3:15  Gynecology - Uterine Ultrasound  Warner
3:45  Ovarian Ultrasound  Peters
4:15  Adult Musculoskeletal Ultrasound  Newman
4:50  Questions
TUESDAY, APRIL 3 (cont’d)

5:00  Dinner Recess

EVENING “HOT SEAT” SESSIONS - FOR RESIDENTS
(Choose one per session, Advanced sign-up REQUIRED)
Session I "Only 20 participants per session"
6:00  MSK  Gaviola
Neuroradiology  Mukundan
Chest  McLoud
Ultrasound  Heller
6:45  BREAK
(Choose one per session, Advanced sign-in REQUIRED)
Session II "Only 20 participants per session"
7:00  Cardiac  Steigner
Breast  Frast
ED  Choy
Gastrointestinal  Uppot
7:45  BREAK
(Choose one per session, Advanced sign-in REQUIRED)
Session III "Only 20 participants per session"
8:00  Pediatrics  Gee
Angio  Killoran
Bone  Han
Nuclear Medicine  Millstine
8:45  Adjourn

EVENING PROGRAM - The Essentials:
What Every Radiologist Must Know
6:30  MSK Radiography  Weissman
7:00  Chest  Shepard
7:30  Neuroradiology  Ptak
8:00  Abdomen  Choy
8:30  ADJOURN

WEDNESDAY, APRIL 4

7:00  Continental Breakfast

NUCLEAR MEDICINE
7:15  Morning Cases: Nuclear Medicine  Millstine
SAM 4: Leader - Millstine
PET, Bone and Lung Scanning
8:00  PET and PET- CT  Mahmood
8:40  Lung  Stauss
9:10  Bone  Millstine
9:40  Questions
9:45  SAM 4: PET and PET- CT  Mahmood
Lung Scanning  Millstine
10:10  BREAK
10:25  Genitourinary  Zukotynski
10:55  Thyroid and Therapies  Stauss
11:15  Pediatric Nuclear Medicine  Treves
11:40  Cardiac Imaging  Dorbala
12:15  Questions
12:20  LUNCH RECESS

GENITOURINARY RADIOLOGY
1:35  Ureter, Bladder, Urethra, and Hysterosalpingography  Tuncali
2:20  Genitourinary Ultrasound  Samir
3:05  BREAK
3:20  Kidneys and Adrenal  Silverman
4:05  CT/MRI of the Reproductive Organs  Sadow
5:00  Questions
5:10  ADJOURN

THURSDAY, APRIL 5

7:00  Continental Breakfast

TRAUMA
7:15  Morning Cases: Trauma  Duran-Mendicuti
SAM 5: Leader - Mukundan
Contrast Reactions
8:00  Treating Contrast Reactions  Mukundan
9:15  Questions
9:20  SAM 5:Treating Contrast Reactions  Mukundan
9:45  BREAK
10:00  Trauma: Facial  Avery
10:30  Trauma: Cardiovascular  Walker
11:00  Trauma: Spine  Khurana
11:30  CNS Trauma and Intracranial Hemorrhage  Ptak
12:00  Questions, Case of the day  Weissman
12:05  LUNCH RECESS

NEURORADIOLOGY
1:15  Imaging the Spine  Schaefer
2:00  Vascular Disorders  Rincon
2:35  Tumors and Infections  Buchbinder
3:15  BREAK
3:30  Eyes, Ears, Nose and Throat, the Essentials  Cunnane
4:30  Vertebroplasty/Kyphoplasty Case Based Approach  Pan
5:00  Questions
5:10  ADJOURN

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 44 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.

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
- Interpersonal and communication skills
- Systems based practice

REGISTRATION INFORMATION

Tuition Fee:

<table>
<thead>
<tr>
<th>Category</th>
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</tr>
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<tbody>
<tr>
<td>Physicians</td>
<td>$1150 (USD)</td>
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<tr>
<td>Residents/Fellows in Training</td>
<td>$800 (USD)</td>
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<tr>
<td>Allied Health Professionals</td>
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</table>

Registration by credit card (VISA or MasterCard) can be made at: www.cme.hms.harvard.edu/courses/bwhmgh.
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.

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.

ACCOMMODATIONS/TRAVEL

A limited number of rooms have been reserved at the Boston Marriott Long Wharf. Reservations for the event will be made by individual attendees directly with Marriott reservations at 1 (800) 228-9290 or (617) 227-0800. Hotel arrangements can also be made online at www.marriott.com/boslw, Enter code radrada under the group code box in the special rate section. Please specify that you are enrolled in this activity to receive a reduced room rate of $269 per night Single/Double. 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.

INQUIRIES

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

ONLINE INFORMATION

To register or view activity information online, visit: www.cme.hms.harvard.edu/courses/bwhmgh
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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.

HOT SEAT™ SESSIONS - RESIDENTS ONLY - Tuesday, April 3 at 6:00 PM, 7:00 PM, and 8:00 PM
Participants will be asked individually to discuss unknown cases with a time limit for each case. The instructor will then review each case and the differential diagnoses. The sessions are open to the first 80 registrants only (20 participants per session). You must pre-register in order to participate. Please see registration form.

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BWH/MGH RADIOLOGY REVIEW - Class # 322358

APRIL 1-5, 2012

TUITION FEES

Physicians
Residents/Fellows in Training
Allied Health Professionals

$1150 (USD)
$800 (USD)
$800 (USD)

HOT SEAT SESSIONS - RESIDENTS ONLY
MUST Pre-Register, Please choose one preferred session at each time. If session is not available, you will be assigned an alternate choice.

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<thead>
<tr>
<th>Tuesday 6:00, Session I</th>
<th>Tuesday 7:00, Session II</th>
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<tbody>
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<td>Ultrasound</td>
<td>Gastrointestinal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tuesday 8:00, Session III</th>
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</thead>
<tbody>
<tr>
<td>Pediatrics</td>
</tr>
<tr>
<td>Angio</td>
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<td>Bone</td>
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<tr>
<td>Nuclear Medicine</td>
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</tbody>
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Print Name Clearly — All Fields Required

Full Name__________________________________________________________________________________________________

Mailing Address______________________________________________________________________________________________

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.

Email Address_______________________________________________________________________________________________

Please check if you wish to be excluded from receiving email notices of future Harvard Medical School - Department of Continuing Education programs

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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