

September 22 - September 26, 2008

NEURORADIOLOGY Post Graduate Course

September 22 - September 25, 2008

Program Directors

R. Gilberto Gonzalez, MD, PhD • Joshua A. Hirsch, MD • Michael Lev, MD • Pamela Schaefer, MD

HEAD AND NECK RADIOLOGY

September 25 - September 26, 2008

Program Directors

Hugh Curtin, MD • Alfred Weber, MD



MASSACHUSETTS
GENERAL HOSPITAL
RADIOLOGY



Harvard Medical School
Department of Continuing Education

The Royal Sonesta Hotel, Cambridge, Massachusetts

COURSE DESCRIPTION

The educational objective of this intensive five-day course is to provide a comprehensive review of basic and advanced principles in the management, acquisition and interpretation of structural and functional imaging studies of the brain, spine, and extra-cranial head and neck. This year's highlights include symposia on pediatric neuroradiology, spinal disease, trauma, acute stroke and MR spectroscopy.

At the conclusion of the program, the participant will be able to:

Select the most appropriate and cost effective imaging studies for specific clinical problems of the central nervous system and head and neck

Provide a full range of diagnostic possibilities for simple and complex imaging problems of the CNS and head and neck

Integrate the most current pathophysiological and pathological concepts into the interpretation of these imaging studies

New concepts and recent development in the diagnostic approach to clinical problems using basic and advanced Magnetic Resonance Imaging (MRI), Computed Tomography (CT), angiography, fMRI, MRS, PET, and neurovascular sonography will be discussed by leaders in the field. The course is designed for beginning and experienced radiologists and neuroradiologists in clinical practice.

This course should be of special interest to those who plan to take the examination for the Certificate of Added Qualification (CAQ) in neuroradiology which is sponsored by the American Board of Radiology. It will also be of interest to neurosurgeons, neurologists, otolaryngologists, osteopaths, neuroscience clinicians, residents, technologists, technical representatives, health planners, and residents preparing for Board examinations in radiology, neurology or neurosurgery.

This will be a unique opportunity for the participants to enhance their skills and evaluate some of the latest advances in the field of radiology. A renowned guest faculty, well known for their extensive contributions in neuroradiology, head and neck radiology, functional MRI and MR spectroscopy will join distinguished faculty from Harvard Medical School at the Massachusetts General Hospital, the Massachusetts Eye and Ear Infirmary and Beth Israel Deaconess Medical Center, in presenting this year's up to date overview. A comprehensive syllabus will be provided as a permanent record of the course.

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 Combined Course for a maximum of 38.75 AMA PRA Category 1 Credit(s)[™]: Neuroradiology for a maximum of 27.50 AMA PRA Category 1 Credit(s)[™], and Head and Neck Radiology for a maximum of 16 AMA PRA Category 1 Credit(s)[™].

Physicians should only claim credit commensurate with the extent of their participation in the activity.

REGISTRATION INFORMATION

Full Course- Physicians tuition fee: \$980 (USD). Reduced fee for Residents, Fellows in Training, (with a letter of verification from Department Chair): \$750 (USD). Neuroradiology Course only- Physicians tuition fee: \$800 (USD). Head and Neck Radiology Course only - Physicians tuition fee: \$750 (USD). All foreign payments must be made by a draft on a United States Bank or by Visa or Mastercard. If paying by check, please make payable to Harvard Medical School and mail with completed registration form to Harvard Medical School–Department of Continuing Education, PO Box 825, Boston, MA 02117-0825. If paying by credit card, please fax the completed registration form to 617-384-8686, **register online at www.cme.hms.harvard.edu/courses/neuroradiology**, 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 (EST), or by e-mail: hms-cme@hms.harvard.edu. Upon receipt of registration a confirmation will be mailed to the address listed on the form.

ONLINE INFORMATION

To register or view course information online, visit our home page: www.cme.hms.harvard.edu/courses/neuroradiology.

 To ensure proper registration, please add the first three characters of the source code found at the bottom of the registration form.

REFUND POLICY

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

COURSE LOCATION

All sessions will be held at The Royal Sonesta Hotel, 5 Cambridge Parkway, Cambridge, MA 02142. Telephone: 617-806-4200

ACCOMMODATIONS

Hotel rooms in Boston and Cambridge are limited. You are urged to make reservations early. A limited number of rooms have been reserved at The Royal Sonesta Hotel until September 2, 2008. Please specify that you are enrolled in the course to receive a reduced room rate. A map of Boston and Cambridge, listing local hotels, will be sent with your confirmation of enrollment.

TRAVEL

For information on reduced airfare, call Harvard Medical School, Department of Continuing Education at 617-384-8600, Monday-Friday, 10 AM to 4 PM (EST).

Program changes/substitutions may be made without notice.

HARVARD FACULTY

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NEURORADIOLOGY POST GRADUATE COURSE

HEAD AND NECK RADIOLOGY
September 22 - September 26, 2008

Visit
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CME 2008
MGH Radiology

NEURORADIOLOGY

PROGRAM DIRECTORS: R. GILBERTO GONZALEZ, JOSHUA A. HIRSCH, MICHAEL LEV, PAMELA SCHAEFER

SUNDAY, SEPTEMBER 21, 2008

5:30-7:30 PM Registration

MONDAY, SEPTEMBER 22, 2008

7:00-8:15 AM Registration and Continental Breakfast

8:15-9:00 MRI Brain Surface Anatomy Naidich

MINI SYMPOSIUM ON CEREBROVASCULAR DISEASE

9:00-9:30 The Basics of Acute Stroke Imaging and MRI in the Differential Diagnosis of Acute Stroke Syndromes Schaefer

9:30-10:00 Advanced Imaging of Acute Stroke Lev

10:00-10:30 Acute Stroke Treatment Options Nogueira

10:30-10:45 QUESTIONS AND BREAK

MINI SYMPOSIUM ON CAROTID DISEASE

10:45-11:15 Carotid Imaging – Ultrasound, CTA and MRA Romero

11:15-11:45 Carotid Stenting Wahkloo

11:45-1:00 LUNCH

MINI SYMPOSIUM ON INTRACRANIAL HEMORRHAGE

1:00-1:30 Acute Traumatic Injury Ptak

1:30-2:00 Intraparenchymal Hemorrhage – Algorithm for Work-up and differential diagnosis Schaefer

2:00-2:30 Aneurysms Ogilvy

2:30-3:00 AVMs Rabinov

3:00-3:15 QUESTIONS AND BREAK

MINI SYMPOSIUM ON PEDIATRIC NEUROIMAGING

3:15-3:45 Pediatric Brain Tumors Young-Poussaint

3:45-4:15 Pediatric Emergencies Grant

4:15-4:45 Pediatric Spine Imaging Young-Poussaint

4:45-5:15 Fetal MR Neuroimaging Robson

5:15-5:45 Case Presentation

TUESDAY, SEPTEMBER 23, 2008

7:00-8:15 AM Continental Breakfast

Breakfast Conference

8:15-9:00 Anatomy: White Matter Tracts Naidich

MINI SYMPOSIUM ON BRAIN TUMORS

9:00-9:30 Differential Diagnosis of Intracranial Masses Lev

9:30-10:00 Glial Neoplasms Smirniotopoulos

10:00-10:30 Biological Behavior: Advanced Imaging Options Castillo

10:30-10:45 QUESTIONS AND BREAK

10:45-11:15 Brain Tumor Imaging in Clinical Context Henson

11:15-12:00 Meningeal and other Non-Glial Neoplasms Smirniotopoulos

12:00-12:15 Questions / Panel Discussion All

12:15-1:30 LUNCH

MINI SYMPOSIUM TOPICS IN NEUROIMAGING

1:30-2:00 Epilepsy Castillo

JUAN M. TAVERAS ANNUAL LECTURE

2:00-2:45 *Imaging of Intracranial Infection-Diagnostic Advances* Donovan-Post

2:45-3:15 Imaging of Dementing Illnesses Huckman

MINI SYMPOSIUM ON ADVANCED NEUROIMAGING: PEARLS AND PITFALLS OF NEW TECHNIQUES

3:15-3:35 CTA – Acquisition, Post-Processing Pomerantz

3:35-3:55 Practical Issues in Functional Brain Mapping Buchbinder

3:55-4:15 What's Next in CT: Dual Energy, Spectral Lev

4:15-4:35 What's Next in MR: High Field Imaging Wald

4:35-4:45 QUESTIONS AND BREAK

4:45-5:30 Case Presentations: Miscellaneous Lesions

HEAD AND NECK RADIOLOGY

PROGRAM DIRECTORS: HUGH D. CURTIN, ALFRED L. WEBER

WEDNESDAY, SEPTEMBER 24, 2008

7:00-8:15AM Continental Breakfast

SPINE SERIES

7:30-8:15 WORKSHOPS

A. Spinal Vascular Anatomy and Introduction to Spinal Angiography	Noguiera
B. The Intervertebral Disc	Pomerantz
C. The Sacrum	Yoo

8:15-9:00	Congenital Spine Anomalies	Schwartz
9:00-9:30	Pediatric Spine Tumor	Schwartz
9:30-9:35	Question	
9:35-10:05	Inflammatory Disease of the Spine	Donovan-Post
10:05-10:20	QUESTIONS AND BREAK	
10:20-10:50	Post-Op Spine: An Evidence Based Approach	Naidich
10:50-10:55	Questions	
10:55-11:40	Back Pain and Radiculopathy: Etiology Natural History and the Impact of Imaging	Modic
11:40-11:45	Questions	
11:45-1:15	LUNCH	
1:15-1:50	Vertebral Body Marrow: Tumor Infection and Trauma	Modic
1:50-1:55	Questions	
1:55-2:25	Imaging Paradigms for Interventions	Palmer
2:25-2:45	QUESTIONS AND BREAK	
2:45-3:15	Spinal Instrumentation as it Pertains to the Neuroradiologist	Coumans
3:15-3:20	Questions	
3:20-3:40	MRA and Spinal Angiography	Rabinov
3:40-3:45	Questions	
3:45-4:15	Spinal Vascular Malformation: From Diagnosis to Treatment	Wahkloo
4:15-4:20	Questions	
4:20-5:00	Case Based Presentations of Interesting Spinal Diseases	Smirniotopoulos

THURSDAY, SEPTEMBER 25, 2008

7:00-8:15AM Registration and Continental Breakfast

Morning Session

Moderator Dr Curtin

7:00-8:15	Interesting Head and Neck Cases	Cunnane
8:15-9:00	Imaging of the Temporal Bone – Part I Normal Anatomy	Curtin
9:00-10:00	Imaging of the Temporal Bone – Part II Inflammatory Disease and Cholesteatoma	Mafee
10:00-10:15	QUESTIONS AND BREAK	
10:15-11:15	Imaging of the Temporal Bone – Part III Neurogenic and other Tumors of the Temporal Bone	Mafee
11:15-12:00	Imaging of the Temporal Bone- Part IV Fibroosseous Lesions, Petroclival Tumors, and Trauma	Mafee

NEURORADIOLOGY REGISTRANTS ADJOURN HERE

12:00-1:15 LUNCH

Afternoon Session

Moderator Dr Caruso

1:15-2:00	MRI Evaluation of the Globe	Mafee
2:00-2:45	CT and MRI of the Parapharyngeal Spaces	Curtin
2:45-3:00	QUESTIONS AND BREAK	
3:00-3:45	Imaging of the Larynx	Curtin
3:45-4:30	Orbital Imaging (Globe to Chiasm)	Caruso
4:30-5:00	QUESTIONS	

FRIDAY, SEPTEMBER 26, 2008

7:00-8:15AM Continental Breakfast

Morning Session

Moderator Dr. Curtin

7:30-8:15	Interesting Head and Neck Cases	Juliano
8:15-9:15	Imaging of the Sinonasal Cavities	Som
9:15-10:00	CT and MRI of the Neck (Cysts, Tumors and Inflammatory Disease)	Reede
10:00-10:15	QUESTIONS AND BREAK	
10:15-11:15	Imaging of the Cervical Lymph Nodes	Som
11:15-12:00	Post treatment neck	Som
12:00-1:15	LUNCH	

Afternoon Session

Moderator Dr. Weber

1:15-2:00	CT and MRI of the Pharynx and Oral Cavity	Reede
2:00-2:45	Scalp and Calvarium	Reede
2:45-3:00	QUESTIONS AND BREAK	
3:00-3:45	Temporomandibular Joint	Sweriduk
3:45-4:30	Lesions of the Jaw	Weber
4:30-5:00	QUESTIONS AND ADJOURN	

Registration Form

TUITION FEES: (check one below)

Course # 281135

\$980 (USD) Full Course (Sept 22 - Sept 26, 2008)

\$750 (USD) Residents* and Fellows in Training* (Sept 22 - Sept 26, 2008)

* A letter of verification from the Department Chair must accompany the registration form.

\$800 (USD) Neuroradiology (Sept 22 - 25 until noon, 2008)

\$750 (USD) Head and Neck (Sept 25 - Sept 26, 2008)

Please Print Clearly

Full Name _____
First Middle Last

Degree _____

Mailing Address _____
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Professional School Attended _____ Yr. of Grad. _____

Profession _____ Specialty _____

Board Certified: Yes No

Organization 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 Medical School, Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825

Bill my credit card: VISA MASTERCARD _____ - _____ - _____
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Registrations paid by credit card may be faxed to 617-384-8686, registered online at www.cme.hms.harvard.edu or mailed to the above address.

Tuition Fee \$ _____

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