Neuroradiology Review in Philadelphia

October 21-24, 2010 | The Rittenhouse Hotel

24.25 AMA PRA Category 1 Credits™

Course Chair:
Elias R. Melhem, MD, PhD

Including:
R. Nick Bryan, MD, PhD
Adam E. Flanders, MD
David P. Friedman, MD
Frank A. Lexa, MD, MBA
Laurie A. Loevner, MD
Robert A. Zimmerman, MD
Overview

This course has been designed to address the needs of practicing radiologists in the community, as well as general radiologists who are preparing for special certification or re-certification in neuroradiology. Based on feedback received from past course attendees, the program will include lectures on new imaging methods: Multidetector CT, PET/CT and Magnetoencephalography, all of which are critical for the study of neck cancer, cerebrovascular disease and neurosurgical planning. In addition, we have added a new section that will cover pediatric neuroradiology. Other lecture topics include vascular disease, head and neck, brain and spine imaging with one afternoon dedicated to advanced imaging.

Course Objectives

Upon completion of the program, participants will be able to:

- Differentiate between neoplastic and non-neoplastic mimics in the brain and spine in order to guide management.
- Diagnose and distinguish between intramedullary, epidural and extra-medullary intradural masses of the spine.
- Identify complex neurovascular malformations of the CNS and appropriately refer for management.
- Describe head and neck cancers in a manner that assists in their comprehensive treatment.
- Understand the role of advanced MRI and MEG imaging in the diagnosis and management of epilepsy.
- Diagnose complex CNS malformations in children.
- Diagnose true non-traumatic neurological emergency and guide management.

Thursday October 21

7:00  Continental Breakfast
7:40  Opening Remarks
Elias R. Melhem, MD, PhD

VASCULAR DISEASE
7:45  Cerebrovascular Anatomy (Arterial and Venous)
Robert W. Hurst, MD
8:30  Current Practice in Interventional Neuroradiology
Robert W. Hurst, MD
9:00  Vascular Malformations of the Brain: A Review of Imaging Features and Risks
Michael F. Stiefel, MD, PhD
9:30  Cerebral Aneurysms: All You Need to Know
Linda J. Bagley, MD
10:15  Break
10:30  State-of-the-Art Imaging of Stroke
Ronald L. Wolf, MD, PhD
11:00  CT Angiography of the Head and Neck
Alexander C. Mamourian, MD
11:30  Imaging of Non-ischemic Neurological Emergencies
Ronald L. Wolf, MD, PhD
12:15  Lunch (on your own)

HEAD & NECK
1:15  Imaging of the Orbits
Frank A. Lexa, MD, MBA
1:45  Head and Neck Cancer: Patterns of Tumor Spread in Base of Skull and Larynx
Laurie A. Loevner, MD
2:45  Break
3:00  Cross Sectional Anatomy of the Temporal Bone
Elias R. Melhem, MD, PhD
3:30  Diseases of the Temporal Bone: External and Middle Ear
Carol A. Dolinskas, MD
4:00  Adjourn
### Friday October 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>7:45</td>
<td>Infectious Diseases of the Brain and Its Linings</td>
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<tr>
<td>8:15</td>
<td>Demyelinating Diseases of the Brain</td>
</tr>
<tr>
<td>8:45</td>
<td>Degenerative Brain Diseases/Cerebral Manifestations of Systemic Disease</td>
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<tr>
<td>9:30</td>
<td>Multimodality Imaging in Epilepsy</td>
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<tr>
<td>10:00</td>
<td>Break</td>
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<tr>
<td>10:15</td>
<td>Adult Brain Neoplasms</td>
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<tr>
<td>10:45</td>
<td>Mimics of Adult Brain Neoplasms</td>
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<tr>
<td>11:15</td>
<td>Imaging of the Pituitary Fossa</td>
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<tr>
<td>12:00</td>
<td>Imaging of Head Trauma</td>
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<tr>
<td>12:30</td>
<td>Lunch (on your own)</td>
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</tbody>
</table>

### Saturday October 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:45</td>
<td>Anatomy and DJD Spine</td>
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<tr>
<td>8:30</td>
<td>MRI Update in Spinal Trauma and Spinal Cord Injury</td>
</tr>
<tr>
<td>9:00</td>
<td>Spine Infection and Inflammation</td>
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<tr>
<td>9:45</td>
<td>Break</td>
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<tr>
<td>10:00</td>
<td>Intradural Tumors of the Spine</td>
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<tr>
<td>10:30</td>
<td>Spinal Interventions</td>
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<tr>
<td>11:00</td>
<td>Vascular Diseases of the Spine</td>
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<tr>
<td>11:30</td>
<td>Lunch (provided)</td>
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### Sunday October 24

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:45</td>
<td>Prenatal Diagnosis of CNS Anomalies</td>
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<tr>
<td>8:30</td>
<td>Imaging of Spine Trauma in Children</td>
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<tr>
<td>9:00</td>
<td>Pediatric Brain Tumors</td>
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<tr>
<td>9:30</td>
<td>Imaging of Pediatric Temporal Bone</td>
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<tr>
<td>10:15</td>
<td>Break</td>
</tr>
<tr>
<td>11:00</td>
<td>Imaging of ENT Disease in Children</td>
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<tr>
<td>11:30</td>
<td>White Matter Disorders in Children</td>
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<tr>
<td>12:00</td>
<td>Closing Remarks</td>
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<tr>
<td>12:15</td>
<td>Adjourn</td>
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### Disclosure

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Neuroradiology Review in Philadelphia
Philadelphia, PA | October 21–24, 2010

Name: __________________________________________
First                      M.I.                  Last              Degree

Affiliation: _______________________________________

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City, State, Zip: ____________________________________
☐ This is my home address.  ☐ This is my business address.

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Physicians $925
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Residents/Fellows $775
Daily Course Fee $300

Register by September 7, 2010 and we will deduct $75
off your registration fee. This discount cannot be applied
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for Penn Radiology Alumni, Military & VA personnel, retired
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City, State, Zip: __________________________________________
Account #: __________________________________________
CSC: _____________________ Expiration Date: __________

Signature: __________________________________________
(Your signature is your authorization to charge this credit card.)
Distinguished Faculty

COURSE CHAIR
Elias R. Melhem, MD, PhD
Professor of Radiology and Neurosurgery
Associate Chair of Education
Chief, Division of Neuroradiology

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE
Linda J. Bagley, MD
Associate Professor of Radiology
Michel Bilello, MD, PhD
Assistant Professor of Radiology
Carol A. Dolinskas, MD
Clinical Associate Professor of Radiology
Edward H. Herskovits, MD, PhD
Associate Professor of Radiology
Robert W. Hurst, MD
Professor of Radiology
Neurosurgery & Neurology
Laurie A. Loevner, MD
Professor of Radiology, Otorhinolaryngology, Head and Neck Surgery
Kim O. Learned
Instructor, Neuroradiology
Alexander C. Mamourian, MD
Associate Professor of Radiology
Igor Mikityansky, MD
Instructor, Neuroradiology
Paulo Nucifora, MD, PhD
Assistant Professor of Radiology
Bryan A. Pukenas, MD
Instructor, Neuroradiology
Mary Scanlon, MD, FACR
Clinical Associate Professor
Residency Program Training Director
Michael F. Stiefel, MD, PhD
Assistant Professor of Neurosurgery and Radiology
John B. Weigele, MD, PhD
Assistant Professor of Radiology
Ronald L. Wolf, MD, PhD
Assistant Professor of Radiology
John H. Woo, MD
Assistant Professor of Radiology

CHILDREN’S HOSPITAL OF PHILADELPHIA
Larissa T. Bilaniuk, MD
Professor of Radiology

Avrum N. Pollock, MD
Assistant Professor
Philadelphia, PA
Erin Simon Schwartz, MD
Associate Professor
Philadelphia, PA
Arastoo Vossough, MD, PhD
Assistant Professor of Radiology
Robert A. Zimmerman, MD
Chief, Neuroradiology Division/MRI

SPECIAL GUESTS
Adam E. Flanders, MD
Professor of Radiology and Rehabilitation Medicine
Thomas Jefferson University
David P. Friedman, MD
Associate Professor of Radiology
Thomas Jefferson University
Dima A. Hammoud, MD
Staff Clinician, Neuroradiology Division
NIH Clinical Center, Bethesda, MD
Frank A. Lexa, MD, MBA
Vice Chairman and Professor of Radiology
Drexel University College of Medicine
Project Faculty, Philadelphia, PA

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Syllabus
In an effort to weave environmentally friendly principles into our meeting, Penn Radiology will distribute CME syllabus materials to meeting attendees on a flash drive along with an abbreviated paper syllabus with area for taking notes. Hearing the concerns of our registrants, the flash drive will allow us to provide you with higher quality images. In addition, we expect you will appreciate packing up a flash drive over a heavy syllabus for your return home. Feel free to bring your laptop to lecture sessions.
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## Upcoming Penn Radiology CME Schedule

### 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUNE 28 – JULY 2</td>
<td>The Human Body: What’s Important in Body Imaging</td>
<td>Chatham Bars Inn, Cape Cod, Massachusetts</td>
</tr>
<tr>
<td>OCTOBER 31 – NOVEMBER 2</td>
<td>Body and MSK Education in Vegas</td>
<td>Encore Las Vegas, Las Vegas, Nevada</td>
</tr>
<tr>
<td>DECEMBER 9 – 12</td>
<td>Diving Into Cardiac Imaging</td>
<td>The Ritz-Carlton Grand Cayman, Cayman Islands</td>
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### 2011

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARCH 26 – 30</td>
<td>Women’s Imaging in Paradise</td>
<td>Atlantis Paradise Island, Bahamas</td>
</tr>
<tr>
<td>JUNE 26 – JULY 1</td>
<td>Radiology Update on the Cape</td>
<td>Chatham Bars Inn, Cape Cod, Massachusetts</td>
</tr>
<tr>
<td>AUGUST 8 – 11</td>
<td>Cardiothoracic and Body CT in Napa</td>
<td>The Villagio Inn &amp; Spa, Napa, California</td>
</tr>
</tbody>
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**Bookmark this site—more courses will be added shortly!**

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