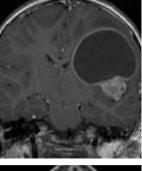


MAYO CLINIC COLLEGE OF MEDICINE

NEURORADIOLOGY: Practice to Innovation







November 9-14, 2008

Fairmont Kea Lani, Maui, Hawaii

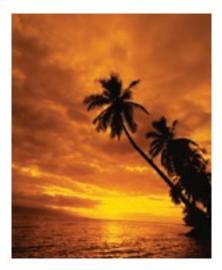
Course Directors: Kelly K. Koeller, M.D. Kent R. Thielen, M.D. Christopher P. Wood, M.D.



REGISTER NOW! Mayo Clinic Department of Radiology CME Office 866-246-1581

COURSE DESCRIPTION

Neuroradiology: Practice to Innovation is designed for the practicing radiologist whose work involves neuroradiology, or those involved in the neurological sciences, neurosurgery, neurology, and/ or related fields. It is intended to provide a practical discussion and review of common diseases involving the brain, head/ neck, and spine. It will provide an overview of common imaging strategies and incorporate evolving new modalities. Also, this course will review common endovascular and spinal interventional techniques utilized in neuroradiology.



COURSE LEARNING OBJECTIVES

Upon conclusion of this program, participants should be able to:

- Describe the common imaging features and utility of advanced imaging techniques to assess neoplasms of the central nervous system
- Discuss common manifestations of white matter disease
- Review advantages and limitations of 3T MR imaging of central nervous system
- Explain pathologic correlation with radiologic signs of central nervous system trauma
- Discuss common congenital anomalies of the central nervous system
- Describe the diagnostic tools available for evaluating patients with seizure disorders
- Describe the relevant issues in diagnosing and managing cerebrovascular diseases
- Review current literature and experiences regarding nephrogenic systemic fibrosis (NSF)
- Discuss common diseases of the skull base, orbit and temporal bone
- Identify common inflammatory patterns and neoplasms of the sinuses and nasal cavities
- Describe the characteristic imaging features of intramedullary, intradural, and extradural spinal disease
- Review essential concepts in utilization and implementation of vertebroplasty, kyphoplasty, and the assessment of patients with vertebral body collapse

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.



INTENDED AUDIENCE

Neuroradiology: Practice to Innovation is designed for the practicing radiologist whose work involves neuroradiology, or those involved in the neurological sciences, neurosurgery, neurology, and/or related fields. It is intended to provide an update in new trends, relevant techniques, and applications in diagnostic and/or therapeutic neuroradiology.

CREDIT

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this educational activity for a maximum of 23.75 *AMA PRA Category 1 Credit(s)*TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Other Health Care Professionals

A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

EDUCATIONAL GRANTS

This course is supported, in part, by educational grants from GE Healthcare Medical Diagnostics, Cook Incorporated, and Siemens Medical Solutions, in accordance with ACCME Standards.

At the time of this printing, a complete listing of commercial supporters was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting.



DATE AND LOCATION

Neuroradiology: Practice to Innovation will be held November 9-14, 2008, at the Fairmont Kea Lani Resort and Spa in beautiful Maui, Hawaii. The Fairmont Kea Lani is in Wailea, a beautiful resort community nestled at the base of Haleakala and distinguished by five beautiful, crescent-shaped beaches. The weather in Wailea is just about perfect for outdoor activities with long sunny days and clear, starry nights. There are over 54 holes of golf, award-winning beaches, and great snorkeling too.

REGISTRATION

To register, complete the attached registration form and return by mail or fax. The registration fee includes tuition, comprehensive course syllabus, continental breakfasts (for meeting participants ONLY), break refreshments, and reception. Although it is not Mayo Clinic Department of Radiology's policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, **early registration is strongly advised**. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present the confirmation letter when checking in at the meeting registration desk.

CANCELLATION POLICY

Your registration fee, less a \$75 administrative fee, will be refunded when written notification is received by the Department of Radiology Continuing Medical Education office (Fax 507-266-3061) before October 10, 2008. No refunds will be made after October 10, 2008, for any reason.

TRAVEL

The Fairmont Kea Lani does not provide complimentary airport shuttle service. SpeediShuttle Door-to-Door airport Services operates air-conditioned vans between the airport and the resort. Telephone 808-875-8070 directly or use the courtesy phones at all baggage claim areas by simply dialing 65. Reservations are required. Departure reservations must be made at least two hours in advance. The shuttle operates from 5 a.m. until 10 p.m. daily.

Taxi service is available by Wailea Taxi Service. Phone 808-874-5000. Rate from the airport to the resort is approximately \$35.

LODGING ACCOMMODATIONS

Hotel reservations are the sole responsibility of the individual registrant. The Fairmont Kea Lani (meeting headquarters) offers luxury all-suite accommodations. The resort rests gracefully on the white sands of Polo Beach in Wailea. Located close to Wailea's three championship golf courses, 14 tennis courts, and boutique shopping this resort also offers a full activities program.

The Fairmont Kea Lani is offering a special group rate per night to meeting participants: Run of House \$340

Service charges and taxes are not included in the above mentioned rate. Reservations can be made by identifying yourself as a participant in the Mayo Clinic "Neuroradiology: Practice to Innovation" course. To make reservations please call 808-875-4100. A two-night's deposit is required at the time of booking the reservation. **Please note that sleeping rooms are limited, and you are encouraged to make your reservations early to avoid disappointment.**

SOCIAL PROGRAMS

Welcome Reception – Sunday, November 9, 2008

Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Sunday, November 9, 2008. This casual reception welcomes you to Hawaii, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues. Preregistration is requested.

FACULTY DISCLOSURE

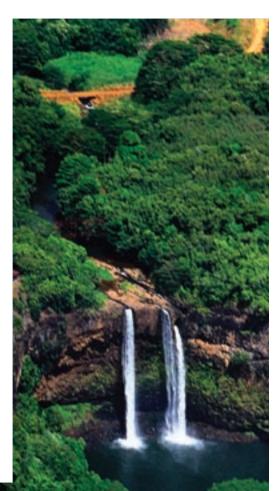
As a provider accredited by ACCME, College of Medicine, Mayo Clinic, must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any offlabel and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of this information will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.

FACULTY

Mayo Clinic in Arizona Joseph M. Hoxworth, M.D. Kent D. Nelson, M.D.

Mayo Clinic in Jacksonville Leo F. Czervionke, M.D. Steven M. Weindling, M.D.

Mayo Clinic in Rochester Harry Cloft, M.D., Ph.D. David R. DeLone, M.D. Bradley J. Erickson, M.D., Ph.D. John Huston, III, M.D. David F. Kallmes, M.D. Kelly K. Koeller, M.D. Karl N. Krecke, M.D. John (Jack) I. Lane, M.D. Kent R. Thielen, M.D. John T. Wald, M.D. Robert E. Watson, Jr. M.D., Ph.D. Kirk M. Welker, M.D. Eric E. Williamson, M.D. Robert J. Witte, M.D. Christopher P. Wood, M.D.



FUTURE MAYO CLINIC DEPARTMENT OF RADIOLOGY CME OPPORTUNITIES:

Current Topics in Noninvasive Cardiovascular Imaging including the Advanced Radiology Life Support[™] Course *June 22-27, 2008* La Jolla, California The Lodge at Torrey Pines

Diagnostic Imaging in Alaska August 15-22, 2008 Hubbard Glacier Cruise Celebrity's Infinity

Advances in Diagnostic Radiology September 5-12, 2008 Mediterranean Cruise – Rome to Venice Crystal Cruise Line – Crystal Serenity

Tutorials in Diagnostic Radiology and Advanced Radiology Life Support Course[™] *January* 25-30, 2009 Big Island, Hawaii Mauna Lani Resort

Neuroradiology: Practice to Innovation November 2-6, 2009 Scottsdale, Arizona Four Seasons Resort - Scottsdale at Troon North



For registration information, call toll free 866-246-1581.

Please note - breakfast is available on meeting days for course participants only starting at 6:30 a.m. in the Ballroom Foyer.

Sunday, November 9, 2008

7:25 – 7:30 a.m.	Welcome and Announcements
7:30 – 8:05 a.m.	Vertebroplasty / Kyphoplasty / Sacroplasty <i>Kent R. Thielen, M.D.</i>
8:05 – 8:10 a.m.	Q & A
8:10 – 8:45 a.m.	Spine Case-based Review Kelly K. Koeller, M.D.
8:45 – 8:50 a.m.	Q & A
8:50 – 9:25 a.m.	Facet Arthropathy: Anatomy, Injections, Synovitis <i>Leo F. Czervionke, M.D.</i>
9:25 – 9:30 a.m.	Q & A
9:30 – 10:05 a.m.	Neuroradiology Interventions: Spine and Skull Base John T. Wald, M.D.
10:05 – 10:10 a.m.	Q & A
10:10 – 10:30 a.m.	Break
10:30 – 11:05 a.m.	Discography: Technique, Mano Leo F. Czervionke, M.D.
11:05 – 11:10 a.m.	Q & A
11:10 – 11:45 a.m.	Case-based Review of Neuro-or pathologic correlation <i>John T. Wald, M.D.</i>
11:45 – 11:50 a.m.	O & A



ometry, and Disc Morphology

oncologic Disease with

11:45 – 11:50 a.m. Q & A

11:50 – 12:25 p.m. Nephrogenic Systemic Fibrosis Eric E. Williamson, M.D.

12:25 – 12:35 p.m. Q & A

Monday, November 10, 2008

7:25 – 7:30 a.m.	Welcome and Announcements
7:30 – 8:05 a.m.	Skull base Christopher P. Wood, M.D.
8:05 – 8:10 a.m.	Q & A
8:10 – 8:45 a.m.	Orbit Robert J. Witte, M.D.
8:45 – 8:50 a.m.	Q & A



8:50 – 9:25 a.m.	Imaging Evaluation of Cerebral Palsy <i>Karl N. Krecke, M.D.</i>
9:25 – 9:30 a.m.	Q & A
9:30 – 10:05 a.m.	Facial and Temporal Bone Trauma Robert J. Witte, M.D.
10:05 – 10:10 a.m.	Q & A
10:10 – 10:30 a.m.	Break
10:30 – 11:05 a.m.	Intracranial Hypotension Kent D. Nelson, M.D.
11:05 – 11:10 a.m.	Q & A
11:10 – 11:45 a.m.	Pediatric Demyelinating Disease Karl N. Krecke, M.D.
11:45 – 11:50 a.m.	Q & A
11:50 – 12:25 p.m.	Neuro Applications of 3T John Huston, III M.D.
12:25 – 12:35 p.m.	Q & A

Tuesday, November 11, 2008

7:25 – 7:30 a.m.	Welcome and Announcements
7:30 – 8:05 a.m.	Evaluation of Pulsatile Tinnitus Steven M. Weindling, M.D.
8:05 – 8:10 a.m.	Q & A
8:10 – 8:45 a.m.	Carotid and Vertebral Artery Imaging John Huston, III M.D.
8:45 – 8:50 a.m.	Q & A
8:50 – 9:25 a.m.	Aneurysms: Imaging and Intervention David F. Kallmes, M.D.
9:25 – 9:30 a.m.	Q & A
9:30 – 10:05 a.m.	Carotid Stenting Harry Cloft, M.D., Ph.D.
10:05 – 10:10 a.m.	Q & A
10:10 – 10:30 a.m.	Break
10:30 – 11:05 a.m.	Spinal Vascular Malformations <i>Kent D. Nelson, M.D</i> .
11:05 – 11:10 a.m.	Q & A
11:10 – 11:45 a.m.	Acute Stroke: Imaging and Intervention <i>David F. Kallmes, M.D.</i>



11:45 – 11:50 a.m.	Q & A
11:50 – 12:25 p.m.	Meningioma Imaging and Embolization <i>Harry Cloft, M.D., Ph.D.</i>
12:25 – 12:35 p.m.	Q & A

Wednesday, November 12, 2008

No meeting – Enjoy Hawaii

Thursday, November 13, 2008

7:25 – 7:30 a.m.	Welcome and Announcements
7:30 – 8:05 a.m.	Brain Tumor WHO update Kelly K. Koeller, M.D.
8:05 – 8:10 a.m.	Q & A
8:10 – 8:45 a.m.	Demyelinating Disease: Unusual Appearances and Correlation with Pathology <i>Bradley J. Erickson, M.D., Ph.D.</i>
8:45 – 8:50 a.m.	Q & A
8:50 – 9:25 a.m.	Cortical Dysplasia and Migration Anomalies <i>Kirk M. Welker, M.D.</i>
9:25 – 9:30 a.m.	Q & A
9:30 – 10:05 a.m.	MR Safety: Pacemakers, Stimulators, and Stents <i>Robert E. Watson, Jr. M.D., Ph.D.</i>
10:05 – 10:10 a.m.	Q & A
10:10 – 10:30 a.m.	Break
10:30 – 11:05 a.m.	Brain Infections Kirk M. Welker, M.D.
11:05 – 11:10 a.m.	Q & A
11:10 – 11:45 a.m.	MR in Seizures Robert E. Watson, Jr. M.D., Ph.D.
11:45 – 11:50 a.m.	Q & A
11:50 – 12:25 p.m.	Change Detection: A New Form of Computer-Aided Diagnosis for Brain Tumors and Chronic Diseases <i>Bradley J. Erickson, M.D., Ph.D.</i>
12:25 – 12:35 p.m.	Q & A



Friday, November 14, 2008

7:20 – 7:30 a.m.	Welcome and Announcements
7:30 – 8:05 a.m.	Temporal Anatomy and Imaging Techniques John (Jack) I. Lane, M.D.
8:05 – 8:10 a.m.	Q & A
8:10 – 8:45 a.m.	Sinusitis Joseph M. Hoxworth, M.D.
8:45 – 8:50 a.m.	Q & A
8:50 – 9:25 a.m.	Non-inflammatory Sinus Disease Steven M. Weindling, M.D.
9:25 – 9:30 a.m.	Q & A
9:30 – 10:05 a.m.	Salivary Gland Neoplasms David R. DeLone, M.D.
10:05 – 10:10 a.m.	Q & A
10:10 – 10:30 a.m.	Break
10:30 – 11:05 a.m.	Cystic Neck Lesions Joseph M. Hoxworth, M.D.
11:05 – 11:10 a.m.	Q & A
11:10 – 11:45 a.m.	Head and Neck Sarcoma David R. DeLone, M.D.
11:45 – 11:50 a.m.	Q & A
11:50 – 12:25 p.m.	Temporal Bone Case-based Review John (Jack) I. Lane, M.D.
12:25 – 12:30 p.m.	Q & A



Registration Form

Neuroradiology: Practice to Innovation

November 9-14, 2008 Fairmont Kea Lani Maui, Hawaii

Mail form and payment to: Department of Radiology CME Office Mayo, West-2 200 First Street SW Rochester, MN 55905

 Telephone:
 866-246-1581

 or
 507-284-3317

 FAX:
 507-266-3061

 E-mail:
 radiologycme@mayo.edu

Name
First Name Middle Name or Initial Last Name
Degree MD DO RN PA Other
Institution
Medical Specialty
E-mail Address
Which is your preferred mailing address: Work/Business Home
Address
CityState/PV
ZIP/Postal CodeCountry
Home Telephone ()Business Telephone ()
Please check if you have special accommodation or dietary needs and indicate specific
need(s):
Complimentary Welcome Reception – Sunday, November 9, 2008
Complimentary Welcome Reception – Sunday, November 9, 2008
Complimentary Welcome Reception – Sunday, November 9, 2008
Complimentary Welcome Reception – Sunday, November 9, 2008 \[Yes, I will attend: number attending # \]
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists \$950
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists \$950
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists \$950 Residents, Physician Assistants and Nurse Practitioners \$850
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists Residents, Physician Assistants and Nurse Practitioners \$850 Total Payment Enclosed: PAYMENT METHOD Check (payable to Mayo Clinic)
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists Residents, Physician Assistants and Nurse Practitioners \$850 Total Payment Enclosed: PAYMENT METHOD
Complimentary Welcome Reception – Sunday, November 9, 2008 Yes, I will attend: number attending # No, I will not attend REGISTRATION FEE Physicians/Scientists Residents, Physician Assistants and Nurse Practitioners \$850 Total Payment Enclosed: PAYMENT METHOD Check (payable to Mayo Clinic)
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NEURORADIOLOGY: Practice to Innovation

November 9-14, 2008

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