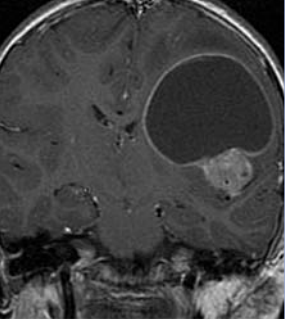


MAYO CLINIC COLLEGE OF MEDICINE

NEURORADIOLOGY: *Practice to Innovation*



November 5-9, 2007

**Fairmont Scottsdale Princess
Scottsdale, Arizona**

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

General Information

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 including fMRI
- 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
- Summarize the “space approach” to effectively assess disease involving the suprahyoid and infrahyoid neck
- 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 including trauma
- 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 22.5 *AMA PRA Category 1 Credit(s)*[™]. 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.

General Information

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

The *Neuroradiology: Practice to Innovation* meeting will be held November 5-9, 2007, at the Fairmont Scottsdale Princess, 7575 East Princess Drive, Scottsdale, Arizona. Meeting headquarters will be located in the Conference Center at the Fairmont Scottsdale Princess.

At the Fairmont Scottsdale Princess, guests will experience the friendly five-diamond hospitality of the magnificent Mexican Colonial estate. As a member of the "Leading Hotels of the World," this gracious resort is scenically set against the backdrop of the McDowell Mountains and embraces Arizona's Spanish Colonial heritage. The Fairmont Scottsdale Princess has one of the best spas in North America by Condé Nast Traveler, three award-winning restaurants, and state-of-the-art meeting facilities. The Fairmont Scottsdale Princess has two 18-hole championship golf courses, one of which is home to the Annual PGA Tour FBR Open (formerly the Phoenix Open). The Fairmont Scottsdale Princess is truly an experience like no other.

REGISTRATION

To register, complete the attached registration form and return by mail or fax (507-266-3061). The registration fee includes tuition, comprehensive course syllabus, continental breakfasts, break refreshments, reception. Although it is not Mayo School of CME policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is 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

If you cancel your participation in this course, your registration fee, less a \$75 administrative fee, will be refunded when written notification is received by the Department of Radiology CME Office prior to October 22, 2007, (fax#: 507-266-3061). No refunds will be made after October 22, 2007, for any reason.

Mayo School of CME and the Department of Radiology CME Office reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CME and/or the Department of Radiology CME Office must cancel or postpone this course, Mayo School of CME and the Department of Radiology CME Office will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

TRAVEL

Phoenix Sky Harbor International Airport is a 20-minute drive from the resort. The Phoenix Sky Harbor International Airport is served by Aeromexico, Air Canada, Alaska Airlines, America West Airlines, American Airlines, Continental Airlines, Delta Airlines, Frontier Airlines, Hawaiian Airlines, Northwest Airlines, United Airlines, and US Airways.

Travel arrangements are the sole responsibility of the individual registrant.

General Information

LODGING ACCOMMODATIONS

Guest rooms have been reserved for attendees and their guests with special course rates of \$279 single or double occupancy for Fairmont Rooms. To obtain these special meeting rates, please phone the Fairmont Scottsdale Princess at 1-800-441-1414 by October 4, 2007, and identify yourself as a participant of the *Mayo Clinic Neuroradiology: Practice to Innovation* meeting.

Please make housing reservations early to avoid disappointment.

For guests wishing to upgrade their accommodations we are pleased to offer discounted rates for Casita Signaute rooms at \$439 single or double occupancy and Casita Suites at \$519 single or double occupancy.

All guestrooms and casitas feature defined living and working areas, terraces, wet bars, refrigerators, in-room safes, ironing boards and irons, walk-in closets, a CD player, radios and cable TV, which offers pay movie channels, video messages and express check-out capabilities. Rooms also provide make-up mirrors, bathrobes, and silk hangers.

Each room has three telephones, one of which is cordless. All phones have a call-waiting feature and the desk phone is equipped with a speaker and two-line capabilities. All guestrooms are equipped with high-speed internet access and voice mail. Wireless internet access is available throughout the resort.

The bathrooms are extra large with double sinks, a separate tub and shower stall, enclosed water closet, a hair dryer and scale.

Each extra person sharing a room will be charged an additional \$30 per night. There will be no charge for children up to and including the age of 18 years who share with their parents. Maximum occupancy per room is four.

Service charges are not included in the above mentioned room rates. There is an additional \$12 per person charge to cover round trip portage and a \$2 per person, per day housekeeping charge.

Check-in time is 4 p.m. Every effort will be made to accommodate guests arriving before the check-in time; however, rooms may not be immediately available. Check-out time is 12 noon. Requests to retain rooms beyond that hour should be directed to the Front Desk upon arrival. Should it be possible to extend a late check-out, a late departure charge may be applicable.

Lodging arrangements are the sole responsibility of the individual registrant.

LODGING EXTENSIONS

The hotel will be happy to extend the program rates, three days prior and three days after the program dates, based on availability.

PARKING

Parking charges are not included in the above mentioned rates. The current overnight valet parking charge is \$23 per day. This rate is subject to change. Please note that self parking is available on a complimentary basis.



SOCIAL PROGRAMS

Welcome Reception – Monday Evening, November 5, 2007

Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Monday Evening, November 5, 2007. This casual reception welcomes you to Arizona, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues. Pre-registration is requested.

General Information

RECREATION/LEISURE ACTIVITIES

Willow Stream – The Spa at Fairmont features a 44,000 square-foot spa to rejuvenate and restore energy in an environment that reflects the surrounding Arizona landscape. Select from an extensive menu of body therapies, massage treatments and salon services. There are 27 treatment rooms, a waterfall treatment area, roof-top swimming pool, private men’s and women’s spa and lounge, as well as a fitness facility with and exercise studio and fitness center.

Golf – with more than 150 golf courses, Scottsdale is home to many of the world’s finest and most challenging courses. Adjacent to the Fairmont Scottsdale Princess are two 18-hole TPC golf courses, both managed by the PGA TOUR. The 6,992-yard, par-71 TPC Stadium Course is the site of the annual PGA TOUR’s FBR Open. The Desert Course is a challenging 6,552-yard, par 71.

Tennis – The Fairmont Scottsdale Princess Tennis Facility features seven courts, including the 5,000-seat Stadium Court, site of the annual Tennis Channel Open. Expert instruction and the latest equipment are available at the Tennis Pro Shop.

Swimming – There are 5 heated outdoor pools including the Sonoran Splash, the fun-filled water recreation area that features two water slides. Cabana rentals are available at Sonoran Splash and the South Pool. Two relaxing Jacuzzis add to the fun.

Additional Activities – include water volleyball, lagoon lawn games such as Badminton, Bocce Ball, Skittles, Putting Green, and Croquet. Fishing ponds, indoor and outdoor basketball, desert bicycling, Kid’s Club with children’s programs and a teen hangout.

FACULTY

COURSE DIRECTORS

Kelly K. Koeller, M.D.

Kent R. Thielen, M.D.

Christopher P. Wood, M.D.



COURSE FACULTY

**Mayo Health System
Midelfort Clinic,**

Eau Claire, WI

Jeffrey T. Goodwin, M.D.

Mayo Clinic in Arizona

Brian W. Chong, M.D.

Kent D. Nelson, M.D.

**Mayo Clinic in
Jacksonville**

Vivek Gupta, M.D.

Amy L. Kotsenas, M.D.

Steven M. Weindling, M.D.

**Mayo Clinic in
Rochester**

David R. DeLone, M.D.

Timothy J. Kaufmann, M.D.

Kelly K. Koeller, M.D.

Karl N. Krecke, M.D.

John I. Lane, M.D.

Edward P. Lindell, M.D.

Jonathan M. Morris, M.D.

Alice Patton, M.D.

John D. Port, M.D.

Kent R. Thielen, M.D.

Kirk M. Welker, M.D.

Robert J. Witte, M.D.

Christopher P. Wood, M.D.

FACULTY DISCLOSURE

As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of CME) 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 off-label 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.

Course Schedule

Monday, November 5

- 7:25 a.m. Welcome and Introductions
7:30 a.m. Continental Breakfast and ENT Cases-of-the-Day Session – *Dr. Koeller*
- 8:00 a.m. Suprahyoid Neck – *Koeller*
8:35 a.m. Q/A
8:40 a.m. Cystic Lesions of Head and Neck – *Dr. Welker*
- 9:15 a.m. Q/A
9:20 a.m. Refreshment Break/Exhibits
9:45 a.m. Head and Neck Cancer Staging – *Dr. DeLone*
- 10:20 a.m. Q/A
10:25 a.m. Imaging of Conductive Hearing Loss – *Dr. Lane*
- 11:00 a.m. Q/A
11:05 a.m. Anatomical Basis of Perineural Spread of Head and Neck Cancer – *Dr. Gupta*
- 11:40 a.m. Q/A
11:45 a.m. Imaging of Sensorineural Hearing Loss – *Dr. Lane*
- 12:20 p.m. Q/A
12:25 p.m. Session Adjourns
6:00 p.m. Welcome Reception for Course Participants and Guests

Tuesday, November 6

- 7:25 a.m. Welcome & Announcements
7:30 a.m. Continental Breakfast and CNS Cases-of-the-Day Session – *Dr. Wood*
- 8:00 a.m. Advanced Brain Tumor Imaging Techniques – *Dr. Kaufman*
- 8:35 a.m. Q/A
8:40 a.m. Imaging Work-Up for Epilepsy – *Dr. Kotsenas*
- 9:15 a.m. Q/A
9:20 a.m. Refreshment Break/Exhibits
9:45 a.m. CNS Hematologic Diseases – *Dr. Kaufman*
- 10:20 a.m. Q/A
10:25 a.m. Functional MRI – *Dr. Welker*
11:00 a.m. Q/A
11:05 a.m. Sinonasal Masses – *Dr. DeLone*
11:40 a.m. Q/A
11:45 a.m. Petrous Apex – *Dr. Weindling*
12:20 p.m. Q/A
12:25 p.m. Session Adjourns

Wednesday, November 7

- 7:25 a.m. Welcome & Announcements
7:30 a.m. Continental Breakfast and Angiography Cases-of-the-Day Session – *Dr. Thielen*
- 8:00 a.m. Aneurysms for the Non-Interventionalists – *Dr. Chong*
- 8:35 a.m. Q/A
8:40 a.m. Radiologic Assessment of Hyperacute Stroke – *Dr. Weindling*

- 9:15 a.m. Q/A
9:20 a.m. Break
9:45 a.m. CT Neuroangiography: Part I – *Dr. Lindell*
- 10:20 a.m. Q/A
10:25 a.m. Orbital Masses and Inflammation – *Dr. Witte*
- 11:00 a.m. Q/A
11:05 a.m. CT Neuroangiography: Part II – *Dr. Lindell*
- 11:40 a.m. Q/A
11:45 a.m. Imaging of the Sella – *Dr. Witte*
- 12:20 p.m. Q/A
12:25 p.m. Session Adjourns

Thursday, November 8

- 7:25 a.m. Welcome & Announcements
7:30 a.m. Continental Breakfast and CNS Cases-of-the-Day Session – *Dr. Wood*
- 8:00 a.m. Developmental Disorders of the Brain – *Dr. Patton*
- 8:35 a.m. Q/A
8:40 a.m. Phakomatoses – *Dr. Patton*
9:15 a.m. Q/A
9:20 a.m. Break
9:45 a.m. MR Imaging of Movement Disorders – *Dr. Gupta*
- 10:20 a.m. Q/A
10:25 a.m. Traumatic Brain Injury – *Dr. Port*
- 11:00 a.m. Q/A
11:05 a.m. Intraventricular Tumors – *Dr. Morris*
- 11:40 a.m. Q/A
11:45 a.m. MR Spectroscopy – *Dr. Port*
12:20 p.m. Q/A
12:25 p.m. Session Adjourns

Friday, November 9

- 7:25 a.m. Welcome & Announcements
7:30 a.m. Continental Breakfast and Spine/Interventional Cases-of-the-Day Session – *Dr. Thielen*
- 8:00 a.m. Spine Trauma – *Dr. Kotsenas*
8:35 a.m. Q/A
8:40 a.m. Cervical Spine – *Dr. Krecke*
9:15 a.m. Q/A
9:20 a.m. Break
9:45 a.m. Lumbar Spine – *Dr. Krecke*
- 10:20 a.m. Q/A
10:25 a.m. Spinal Cord Tumors – *Dr. Koeller*
- 11:00 a.m. Q/A
11:05 a.m. Low Pressure Headaches and Their Work-up – *Dr. Nelson*
- 11:40 a.m. Q/A
11:45 a.m. Confessions of a Quality Realist – *Dr. Goodwin*
- 12:20 p.m. Q/A
12:25 p.m. Session and Course Adjourns

Registration Form

Neuroradiology: Practice to Innovation

November 5-9, 2007

Fairmont Scottsdale Princess
Scottsdale, Arizona

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

Website: www.mayo.edu/cme

(Please print or type all information. You may duplicate this form for multiple registrations.)

Name _____
First Name Middle Name or Initial Last Name

Degree MD DO RN LPN NP Other _____

Institution _____

Medical Specialty _____

E-mail Address _____

Which is your preferred mailing address: Work/Business Home

Address _____

City _____ State/PV _____

ZIP/Postal Code _____ Country _____

Home Telephone (_____) _____ Business Telephone (_____) _____

Please check if you have special accommodation or dietary needs and indicate specific need(s): _____

Complimentary Welcome Reception – Monday Evening, November 5, 2007

Yes, I will attend: number attending # _____

No, I will not attend

REGISTRATION FEE

Physicians/Scientists \$900 \$ _____

Residents, Physician Assistants and Nurse Practitioners \$800 \$ _____

Total Payment Enclosed: \$ _____

PAYMENT METHOD

Check (payable to Mayo Foundation)

Credit Card: Visa MasterCard Discover

Card Number _____ Expires Mo/Yr _____

Signature _____ Date _____



200 First Street SW
Rochester, Minnesota 55905

NEURORADIOLOGY:

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Innovation*

*November
5-9, 2007*

**Fairmont Scottsdale
Princess
Scottsdale, Arizona**



**REGISTER
NOW!**

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