Department of Radiology

Advances in Diagnostic Radiology

10 Self-Assessment Modules (SAMs) Available!

October 19-23, 2015
Four Seasons Resort Orlando at Walt Disney World® Resort
Lake Buena Vista, Florida

REGISTER TODAY!
www.ce.mayo.edu/radiology
Course Description and Intended Audience

Advances in Diagnostic Radiology is a postgraduate course designed to update the diagnostic radiologist in new trends, relevant techniques, and advanced applications in diagnostic imaging. The latest advances will be emphasized and related to common problems encountered in clinical practice. A variety of didactic lectures and accessible faculty members will enhance learning throughout the week. All faculty members are in practice at Mayo Clinic and will draw from personal research activities as well as clinical experience at Mayo Clinic.

Course Learning Objectives

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

• Demonstrate the role of MR imaging of the postoperative knee.
• Review the use of seed localization for nonpalpable breast cancer.
• Identify practical MR diffusion imaging in the abdomen.
• Examine the use of MRA in the body and extremities.
• Recognize incidental cardiovascular findings on non-cardiovascular CT.
• Examine duplex ultrasounds of the carotid and vertebral arteries.
• Review the use of contrast-enhanced digital mammography.

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.

Date and Location

Advances in Diagnostic Radiology will be held Monday, October 19 through Friday, October 23, 2015. The course will be held at the Four Seasons Resort Orlando at Walt Disney World® Resort in Lake Buena Vista, Florida. An exclusive destination within the gates of Walt Disney World® Resort, Four Seasons welcomes you to a vibrant lakeside resort, in a residential setting, just minutes from Magic Kingdom® Park and Epcot®. Revel in active recreation or luxurious rejuvenation, surrounded by beautiful spa gardens, pools and emerald gold greens of the Four Seasons Golf Course. Visit www.fourseasons.com/orlando/ for more information.

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 live activity for a maximum of 25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Self-Assessment Modules (SAMs)

Attendees will have an opportunity to participate in 10 self-assessment modules (SAMs) during the course. The self-assessment modules have been designed to meet the standards of the American Board of Radiology (ABR) for self-assessment modules (SAMs).

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.
Grants and Exhibits

At the time of this printing, a complete listing of commercial supporters (financial or in-kind) was not available. Appropriate acknowledgment will be given to all supporters at the time of the course.

Registration

To register online, visit [www.ce.mayo.edu/radiology](http://www.ce.mayo.edu/radiology), or complete the attached registration form and return by mail or fax (507-266-3061).

The registration fee includes:
- Course tuition
- Comprehensive course syllabus on flash drive
- Radiology CME mobile application
- Daily continental breakfasts and break refreshments (course participants only)
- Welcome reception for course participants and guests
- 10 Self-Assessment Modules (SAMs)

Although it is not Department of Radiology 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.

For additional information, contact:

Mayo Clinic Department of Radiology
Continuing Medical Education Office
Mayo, W-2
200 First Street SW
Rochester, MN 55905

Website: [www.ce.mayo.edu/radiology](http://www.ce.mayo.edu/radiology)
E-mail: radiologycme@mayo.edu
Phone: 866-246-1581
Fax: 507-266-3061

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 Department of Radiology CME Office before October 5, 2015 (radiologycme@mayo.edu or fax#: 507-266-3061). **No refunds will be made on or after October 5, 2015.** Canceled registrations are non-transferable.

Mayo Clinic Department of Radiology CME Office and/or Mayo School of CPD reserve the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo Clinic Department of Radiology CME Office and/or Mayo School of CPD must cancel or postpone this course, Mayo Clinic 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

Four Seasons Resort Orlando at Walt Disney World® Resort is located approximately 21 miles (30 minutes) from the Orlando Airport (MCO). The Four Seasons Resort Orlando does not provide complimentary airport shuttle service, but other transportation options are available. Ten major rental car companies are represented at Orlando Airport and are located in Terminal A and Terminal B on the Ground Transportation Level (Level 1). A one-way taxi fare to the Four Seasons Orlando is approximately $70, and a one-way private sedan fare ranges from $85 to $110 USD. Rates are subject to change.

**Travel arrangements are the sole responsibility of the individual registrant.**
Lodging Accommodations

The Four Seasons Resort Orlando at Walt Disney World® Resort is the only stand-alone luxury resort in Central Florida. Reflecting the Spanish Revival architecture of Florida’s golden age, lakeside Four Seasons Resort Orlando at Walt Disney World® Resort offers spacious guest rooms.

Guest rooms have been reserved for attendees and their guests with a special course rate:

**Run of House: $299 per night**

Please note that service charges and taxes are not included in the above mentioned rate. Porterage and housekeeping gratuities are at the individual’s discretion, but $12 per person, round trip, is recommended for porterage, and $7 per room, per day is recommended for housekeeping. There is no charge for children up to the age 18 years who share with their parents. Maximum occupancy is two adults and two children per room.

The special group rates are offered when checking in on October 14 and checking out on October 27, based on availability. Reservations can be made by calling 407-313-7777 and requesting the Reservations Department. Please identify yourself as a participant in the Mayo Clinic Advances in Diagnostic Radiology course when making your reservation.

In order to receive these special rates, reservations must be made prior to September 17, 2015 and will be based on availability. Reservations will be taken based on space and rate availability. We highly encourage you to make your room reservations early to avoid disappointment.

Hotel check-in time is 4:00 p.m. on the day of arrival, and check-out time is before 12:00 p.m. on the day of departure.

**Lodging arrangements are the sole responsibility of the individual registrant.**

Mayo Clinic Department of Radiology CME Office is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant, such as airline or hotel fees or penalties, are the responsibility of the registrant.

Parking

Valet parking is available for $15 per event and $26 overnight. Self-parking is not available. Rate is subject to change. Taxes are not included in the above mentioned rate.

Social Programs

**Welcome Reception – Monday evening, October 19, 2015**

Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Monday, October 19, 2015, at the Four Seasons Resort Orlando at Walt Disney World® Resort. This casual reception welcomes you to Orlando, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues. Pre-registration is requested.
Recreation/Leisure Activities

DISNEY PLANNING CENTER – The Disney Planning Center, conveniently located near the front desk on the lobby level, is a one-stop central hub where you can seamlessly organize your entire Disney experience. Meet one-on-one with a Disney Cast Member to plan the wonderful details of your stay, make ticket arrangements for the Disney Theme Parks and reserve your table at a Disney restaurant. The Disney Planning Center can even support your planning process before you walk in the door. Call 407-313-6630 to start planning.

Epcot® International Food & Wine Festival Presented by Chase® – Take your palate by the hand for an unforgettable tour of eclectic cultures and global cuisine offerings. Dozens of unique flavors and fun experiences will unfold across Epcot®. Some festival highlights include: nearly thirty international food and beverage marketplaces; signature dining experiences with world-renown chefs; exciting culinary demonstrations and beverage seminars; and The Eat to the Beat concert series, with nightly performances from popular hit-makers. Call the Disney Planning Center at 407-313-6630 to start planning.

DISNEY CHARACTER BREAKFAST – Four Seasons Resort Orlando at Walt Disney World® Resort offers the Good Morning Breakfast with Goofy & His Pals character breakfast weekly at Ravello restaurant. The buffet-style breakfast is offered on Thursdays and features a wonderful assortment of traditional breakfast offerings. A photographer will be onsite to capture your wonderful memories with Goofy & His Pals, the always-entertaining stars of the breakfast. The Character Breakfast includes complimentary digital downloads of the professional photographs taken with Goofy & His Pals. Reservations are required and can be made by contacting the Resort’s on-site dining reservations team at 407-313-6161. Reservations are available from 7:30 a.m. to 11:00 a.m.

SPA – Nestled in the idyllic, luxurious enclave of Golden Oak, the Spa at Four Seasons Resort Orlando at Walt Disney World® Resort is an oasis of serenity. The 13,000-square-foot sanctuary is inspired by the natural palette and imagery of the Florida Everglades. Contemporary design complements indigenous sensibility and provides an unmatched environment in which to experience unparalleled spa services. A comprehensive collection of remarkably effective and exclusive therapies are performed by the most talented team of spa professionals in the Sunshine State. The Spa offers expert hair and nail care, advanced aesthetic services, beautiful body therapies, and fitness programs all designed to help you look and feel your best. Call 407-313-6970 to make your spa appointment.

GOLF – The Tranquilo Golf Club at Four Seasons Resort Orlando is named to reflect the Spanish revival style of the Resort, and pay homage to the Florida landscape, such as the Southern Live Oak trees that are found throughout the course. A certified Audubon sanctuary, Tranquilo Golf Club is home to abundant wildlife. The picturesque and serene Tom Fazio-designed course features topography unique to central Florida, with its varying elevation and wetlands. The secluded course is very tranquil, allowing one to connect with nature and truly escape. Call 407-313-6880 to reserve your tee time.
Faculty Disclosure

As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) 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.

National Physician Payment Transparency Program

Mayo Clinic College of Medicine complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).
Program Schedule

Monday, October 19, 2015

6:30 a.m.  Registration and Continental Breakfast for Course Participants

7:10 a.m.  Introduction
Jerome F. Breen, M.D.

7:15 a.m.  CT and MRI Evaluation of Renal Masses – SAM I
Robert P. Hartman, M.D.

7:45 a.m.  GU Dual Energy CT: Stones and Mass Evaluation – SAM I
Robert P. Hartman, M.D.

8:15 a.m.  SAM Test and Discussion
Robert P. Hartman, M.D.

8:30 a.m.  Advanced Pulse Sequences in Body MR
Phillip M. Young, M.D.

9:00 a.m.  CT/MR of Cystic Pancreatic Masses
Shannon P. Sheedy, M.D.

9:30 a.m.  Panel Discussion - Course Faculty

9:45 a.m.  Break

10:00 a.m. MRI: Cirrhosis and HCC
Alvin C. Silva, M.D.

10:30 a.m. MRI of Perianal Fistula
Shannon P. Sheedy, M.D.

11:00 a.m. Practical MR Diffusion Imaging in the Abdomen – SAM II
Alvin C. Silva, M.D.

11:30 a.m. Introduction to MR Elastography – SAM II
Alvin C. Silva, M.D.

12:00 p.m. SAM Test and Discussion
Alvin C. Silva, M.D.

12:15 p.m. Panel Discussion - Course Faculty

12:30 p.m. Session Adjourns for the Day

Tuesday, October 20, 2015

6:30 a.m.  Continental Breakfast for Course Participants

7:15 a.m.  MRA in the Body and Extremities
Phillip M. Young, M.D.

7:45 a.m.  Incidental Cardiovascular Findings on Non Cardiovascular CT
Phillip M. Young, M.D.

8:15 a.m.  CTA of Acute Aortic Syndrome – SAM III
Terri J. Vrtiska, M.D.

8:45 a.m.  CTA of the Postoperative Aorta – SAM III
Terri J. Vrtiska, M.D.

9:15 a.m.  SAM Test and Discussion
Terri J. Vrtiska, M.D.

9:30 a.m.  Panel Discussion - Course Faculty

9:45 a.m.  Break

10:00 a.m. Aortic Endograft Imaging for Planning and Surveillance: The Surgeons Perspective
Gustavo S. Oderich, M.D.
Wednesday, October 21, 2015

6:30 a.m. Continental Breakfast for Course Participants

7:15 a.m. Sports Imaging of the Wrist
Jeffrey J. Peterson, M.D.

7:45 a.m. Sports Imaging of the Elbow
Jeffrey J. Peterson, M.D.

8:15 a.m. Compression Fractures of the Spine: When to Worry – SAM V
Mark J. Kransdorf, M.D.

8:45 a.m. Metallosis: An Expanding Spectrum – SAM V
Mark J. Kransdorf, M.D.

9:15 a.m. SAM Test and Discussion
Mark J. Kransdorf, M.D.

9:45 a.m. Break

10:00 a.m. Peripheral Nerve MRI
B. Matthew Howe, M.D.

10:30 a.m. Ankle MRI
B. Matthew Howe, M.D.

11:00 a.m. MRI of Radiographically Occult Knee Injuries – SAM VI
Daniel E. Wessell, M.D., Ph.D.

11:30 a.m. MRI of the Postoperative Knee – SAM VI
Daniel E. Wessell, M.D., Ph.D.

12:00 p.m. SAM Test and Discussion
Daniel E. Wessell, M.D., Ph.D.

12:15 p.m. Panel Discussion - Course Faculty

12:30 p.m. Session Adjourns for the Day

Thursday, October 22, 2015

6:30 a.m. Continental Breakfast for Course Participants

7:15 a.m. Management of Atypia: A Shift in Paradigm?
Robert T. Fazzio, M.D., Ph.D.

7:45 a.m. Aggressive Benign Breast Disease: A Multimodality Approach to Diagnosis
Robert T. Fazzio, M.D., Ph.D.

8:15 a.m. Contrast-Enhanced Digital Mammography: Our Experience – SAM VII
Roxanne Lorans, M.D.
Breast Density Update: What You Need to Know – SAM VII
Roxanne Lorans, M.D.

SAM Test and Discussion
Roxane Lorans, M.D.

Panel Discussion - Course Faculty

Break

Breast Papillomas: Detection, Diagnosis and Management
Laurel A. Littrell, M.D.

Cystic Breast Masses Including the Dreaded “Clusters of Cysts”
Laurel A. Littrell, M.D.

Role of Screening Ultrasound – SAM VIII
Hillary W. Garner, M.D.

Seed Localization for Nonpalpable Breast Cancer – SAM VIII
Hillary W. Garner, M.D.

SAM Test and Discussion
Hillary W. Garner, M.D.

Panel Discussion - Course Faculty

Session Adjourns for the Day

Friday, October 23, 2015

Continental Breakfast for Course Participants

Duplex Ultrasound of the Carotid and Vertebral Arteries
Thanila A. Macedo, M.D.

Imaging Diagnosis of Upper and Lower Extremity DVT
Thanila A. Macedo, M.D.

Pulmonary Embolism: Acute and Chronic Evaluation by CT and MR – SAM IX
Jerome F. Breen, M.D.

Coronary Calcium and CTA Updates – SAM IX
Jerome F. Breen, M.D.

SAM Test and Discussion
Jerome F. Breen, M.D.

Panel Discussion - Course Faculty

Break

Lower Extremity Arterial Duplex
Thanila A. Macedo, M.D.

Pulmonary Vein Imaging MR and CT
Jerome F. Breen, M.D.

CT Imaging of Transcatheter Aortic Valve Replacement: What You Need to Know – SAM X
Eric E. Williamson, M.D.

Introduction to Cardiac MR Imaging – SAM X
Eric E. Williamson, M.D.

SAM Test and Discussion
Eric E. Williamson, M.D.

Panel Discussion - Course Faculty

Course Concludes
### Mayo Clinic Department of Radiology Future CME Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Date and Location</th>
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<tbody>
<tr>
<td>Neuroradiology: Practice to Innovation</td>
<td>November 8-12, 2015, The Ritz-Carlton, Kapalua, Maui, Hawaii</td>
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<tr>
<td>Advanced Radiology Life Support™ (ARLS)</td>
<td>January 9 and October 15, 2016, Mayo Clinic, Siebens Medical Education Building, Rochester, Minnesota</td>
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<tr>
<td>Mayo Clinic Radiation Oncology: Current Practice and Future Direction</td>
<td>January 11-15, 2016, Mauna Lani Resort, Kohala Coast, Hawaii</td>
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<tr>
<td>Collaborative 3D Printing in Medical Practice</td>
<td>March 4-6, 2016, The Fairmont Scottsdale Princess, Scottsdale, Arizona</td>
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<tr>
<td>Mayo Clinic Diagnostic Imaging Updated and Self-Assessment with Optional Advanced Radiology Life Support™ (ARLS) Workshop</td>
<td>Workshop: July 31, 2016/Course: August 1-5, 2016, The Lodge at Torrey Pines, La Jolla, California</td>
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### Radiology Self-Study CME Courses and Educational Resources

- **Advanced Radiology Life Support™ (ARLS)** - 4.5 *AMA PRA Category 1 Credits™*
- **2014 Advances in Diagnostic Radiology** - 16.75 *AMA PRA Category 1 Credits™*
- **2014 Essentials of Radiology: A Mayo Clinic Review** - 37.5 *AMA PRA Category 1 Credits™*
- **Neuroradiology: Practice to Innovation Course** - 21.5 *AMA PRA Category 1 Credits™*
- **State-of-the-Art Small Bowel Imaging: Review and Hands-on Tutorial Course Presented on Laptop Workstation** - 19.25 *AMA PRA Category 1 Credits™*
- **2014 Tutorials in Diagnostic Radiology** - 24.75 *AMA PRA Category 1 Credits™*

To order or for more information, please visit [www.ce.mayo.edu/radiology](http://www.ce.mayo.edu/radiology).

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**ContrastTx – Mayo Clinic Contrast Reaction iPhone/iPad App**

Designed to give providers quick access to Mayo Clinic’s contrast reaction treatment protocols. This app focuses on the potentially life-threatening reactions that can occur when administering iodine or gadolinium radiographic contrast to patients.

To learn more, search “Mayo Clinic Contrast” in the Apple App Store. Download today for just $2.99.

**Suggested Treatment Regimens for Contrast Reactions (Poster and Laminated Card)**

To order or for more information, please visit [www.ce.mayo.edu/radiology](http://www.ce.mayo.edu/radiology).
Complimentary Welcome Reception – Monday, October 19, 2015

Yes, I will attend: number attending # _____

No, I will not attend

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

Name______________________________________________________________________________

Degree

☐ MD
☐ PhD
☐ DO
☐ PA
☐ NP
☐ Other____________________________

Institution __________________________________________________________

Medical Specialty____________________________________________________________________

E-mail Address _____________________________________________________________________

How did you learn about this course?

☐ E-mail Marketing
☐ Full-Course Brochure Mailing
☐ RSNA
☐ Other_________________

Website (please identify): __________________________________________________________

Address____________________________________________________________________________

City____________________State/PV_________ZIP/Postal Code____________Country__________

Home Telephone (_____)__________________ Business Telephone (______)_________________

Registration Form

Advances in Diagnostic Radiology

October 19-23, 2015

Four Seasons Resort Orlando at Walt Disney World® Resort
Lake Buena Vista, Florida

Register online at: www.mayo.edu/cme/radiology

Or mail form and payment to:
Mayo Clinic 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
☐ PhD
☐ DO
☐ PA
☐ NP
☐ Other____________________________

Institution __________________________________________________________

Medical Specialty____________________________________________________________________

E-mail Address _____________________________________________________________________

How did you learn about this course?

☐ E-mail Marketing
☐ Full-Course Brochure Mailing
☐ RSNA
☐ Other_________________

Website (please identify): __________________________________________________________

Address____________________________________________________________________________

City____________________State/PV_________ZIP/Postal Code____________Country__________

Home Telephone (_____)__________________ Business Telephone (______)_________________

Complimentary Welcome Reception – Monday, October 19, 2015

☐ Yes, I will attend: number attending # _____  ☐ No, I will not attend

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

Advances in Diagnostic Radiology Registration Fee:

➢ Physicians/Scientists, Residents, Physician Assistants, and Nurse Practitioners $1,250 $________________

A complimentary syllabus on flash drive is provided for this course. A paper syllabus is not available.

Total Payment Enclosed: $________________

PAYMENT METHOD (US FUNDS ONLY) * WIRE TRANSFERS WILL BE ASSESSED A $25 USD FEE.

☐ Check (payable to Mayo Clinic)
☐ Credit Card: ☐ Visa ☐ MasterCard ☐ Discover

Card Number Expires Mo/Yr 3-digit Security Code

Signature Date
Advances in Diagnostic Radiology
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Four Seasons Resort Orlando at Walt Disney World®
Resort • Lake Buena Vista, Florida

If you have already received a copy of this brochure, please give this brochure to an interested colleague.

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