

REGISTRATION *Information*



Manchester Grand Hyatt San Diego

LOG ON TO WWW.ARRS.ORG FOR DETAILS. REGISTRATION OPENS DECEMBER 15.

MEETING OVERVIEW

Sunday, May 2

7:30 am–6:00 pm
Categorical course on efficient imaging

8:00 am–12:00 noon
Item-writing workshop

1:30 pm–5:00 pm
Seminars on education and business and practice management

4:30 pm–5:30 pm
SRS guest program

6:15 pm–7:30 pm
Presidential address and Gold Medal presentations

There are additional fees for the categorical course and the case-based imaging review course.

Monday, May 3

7:00 am–8:00 am
Power hours on breast imaging and nuclear medicine

7:30 am–6:10 pm
Categorical course on efficient imaging

8:00 am–9:30 am
Instructional courses on breast and cardiac imaging, nuclear medicine and vascular and interventional radiology. Scientific session on efficacy, education and PACS

9:30 am–10:30 am
Caldwell Lecture: Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region

10:30 am–12:00 noon
Instructional courses on breast and cardiac imaging, nuclear medicine and vascular and interventional radiology. Scientific session on efficacy, education and PACS

12:00 noon–1:00 pm
Lunch in the exhibit hall

1:00 pm–3:00 pm
Instructional courses on cardiac imaging and nuclear medicine. Scientific sessions on breast and gastrointestinal imaging and vascular and interventional radiology

2:30 pm–3:30 pm
Awards session

4:00 pm–6:00 pm
Instructional courses on breast, cardiac and gastrointestinal imaging and vascular and interventional radiology. Scientific sessions on musculoskeletal imaging and nuclear medicine

Tuesday, May 4

7:00 am–8:00 am
Power hours on abdominal imaging and vascular and interventional radiology

7:00 am–12:00 noon
Categorical course on efficient imaging

8:00 am–9:30 am
Instructional courses on breast, gastrointestinal and musculoskeletal imaging, neuroradiology and nuclear medicine

10:00 am–11:30 am
Instructional courses on musculoskeletal imaging and neuroradiology. Scientific sessions on breast, cardiopulmonary and gastrointestinal imaging and vascular and interventional radiology

12:00 noon–1:00 pm
Lunch in the exhibit hall

1:00 pm–3:30 pm
Review course on nuclear medicine

1:00 pm–3:00 pm
Instructional courses on gastrointestinal and musculoskeletal imaging and neuroradiology. Scientific sessions on breast and cardiopulmonary imaging and vascular and interventional radiology

4:00 pm–6:00 pm
Instructional courses on breast and musculoskeletal imaging, neuroradiology and vascular and interventional radiology. Scientific sessions on gastrointestinal and pediatric imaging

4:00 pm–6:30 pm
Review course on cardiovascular imaging

Wednesday, May 5

7:00 am–8:00 am
Power hours on cardiopulmonary and pediatric imaging

7:30 am–10:00 am
Review course on breast imaging

8:00 am–9:30 am
Instructional courses on chest, gastrointestinal, musculoskeletal and pediatric imaging, neuroradiology and vascular and interventional radiology

10:00 am–12:00 noon
Instructional courses on musculoskeletal and pediatric imaging, neuroradiology and vascular and interventional radiology. Scientific sessions on cardiopulmonary and gastrointestinal imaging

12:00 noon–1:00 pm
Lunch in the exhibit hall

1:00 pm–3:00 pm
Instructional courses on breast, chest and genitourinary imaging and vascular and interventional radiology. Scientific sessions on musculoskeletal imaging and neuroradiology

1:00 pm–3:30 pm
Review course on pediatric imaging

2:45 pm–3:15 pm
Member business meeting

4:00 pm–6:00 pm
Instructional courses on breast, chest, genitourinary, musculoskeletal and pediatric imaging and neuroradiology

4:00 pm–6:30 pm
Review course on vascular and interventional radiology

Thursday, May 6

7:00 am–8:00 am
Power hours on emergency radiology and musculoskeletal imaging

7:30 am–10:00 am
Review course in gastrointestinal imaging

8:00 am–9:30 am
Instructional courses on chest, musculoskeletal and pediatric imaging, emergency radiology and vascular and interventional radiology. Scientific session on neuroradiology

10:00 am–12:00 noon
Instructional courses on chest imaging. Scientific sessions on emergency radiology, gastrointestinal imaging and neuroradiology

10:30 am–1:00 pm
Review course on musculoskeletal imaging

12:30 pm–2:00 pm
Instructional courses on chest and genitourinary imaging, emergency radiology, neuroradiology and ultrasound

2:30 pm–5:00 pm
Review course on neuroradiology

3:00 pm–5:00 pm
Instructional courses on chest imaging, competencies, emergency radiology and ultrasound. Scientific sessions on genitourinary and musculoskeletal imaging

Friday, May 7

7:00 am–8:00 am
Power hours on neuro-radiology and ultrasound

7:30 am–10:00 am
Review course on genitourinary imaging

8:00 am–9:30 am
Instructional courses on chest imaging, competencies, emergency radiology, neuroradiology and ultrasound

10:00 am–12:00 noon
Instructional courses on neuroradiology and ultrasound. Scientific session on musculoskeletal radiology

10:30 am–1:00 pm
Review course on chest imaging

1:00 pm–3:00 pm
Instructional courses on competencies and neuroradiology. Scientific session on genitourinary imaging

2:00 pm–4:30 pm
Review course on ultrasound

Power Hours are one-hour sessions that feature oral presentations by electronic exhibit authors.

The American Board of Radiology (ABR) will be delivering the Maintenance of Certification (MOC) Practice Profiled Examination on Saturday, May 1, 2010. This exam will be available to pre-registered ARRS annual meeting attendees on a first-come first-served basis. For more information on the exam and registration information please visit the ABR Web site at http://www.theabr.org/moc/moc_dr/moc_dr_comp3.html or contact the ABR MOC Services Division at 520-519-2152.

REGISTRATION FORM

Please fill in the information below:

First Name Middle Initial Last Name

Address

City State/Province Postal Code Country

Telephone (please include country and city codes) Fax

E-mail Address (confirmation is sent to this address)

Degrees (MD, PhD, etc.) Subspecialty

Name(s) of guest(s) accompanying you (separate fee applies)

Emergency Contact Name and Telephone

Course Enrollment

Categorical Course on Efficient Imaging \$180 members; \$260 nonmembers

Case-Based Imaging Review \$180 members; \$95 in-training members; \$260 nonmembers

Sunday, May 2

8:00 am–12:00 noon

Item-Writing Workshop

1:30 pm–5:00 pm

Education Seminar

1:30 pm–5:00 pm

Business and Practice Seminar

4:30 pm–5:30 pm

SRS Guest Program

Monday, May 3

7:00 am–8:00 am

Power Hour: Breast Imaging

Power Hour: Nuclear Medicine

8:00 am–9:30 am

IC101-IC105; SS1

10:30 am–12:00 noon

IC106-IC110; SS2

1:00 pm–2:30 pm/3:00 pm

IC111-IC113; SS3-SS5

4:00 pm–5:30 pm/6:00 pm

IC114-IC117; SS6-SS7

Tuesday, May 4

7:00 am–8:00 am

Power Hour: Abdominal Imaging

Power Hour: Vascular and Interventional Radiology

8:00 am–9:30 am

IC201-IC205

10:00 am–11:30 am/12:00 noon

IC206-IC207; SS8-SS11

1:00 pm–2:30 pm/3:00 pm

IC208-IC210; SS12-SS14

4:00 pm–5:30 pm/6:00 pm

IC211-IC214; SS15-SS16

Wednesday, May 5

7:00 am–8:00 am

Power Hour: Cardiopulmonary Imaging

Power Hour: Pediatric Imaging

8:00 am–9:30 am

IC301-IC306

10:00 am–11:30 am/12:00 noon

IC307-IC310; SS17-SS18

1:00 pm–2:30 pm/3:00 pm

IC311-IC314; SS19-SS20

4:00 pm–5:30 pm/6:00 pm

IC315-IC320

Thursday, May 6

7:00 am–8:00 am

Power Hour: Emergency Radiology

Power Hour: Musculoskeletal Imaging

8:00 am–9:30 am

IC401-IC405; SS21

10:00 am–11:30 am/12:00 noon

IC406-IC407; SS22-SS24

12:30 pm–2:00 pm

IC408-IC412

3:00 pm–4:30 pm/5:00 pm

IC413-IC416; SS25-SS26

Friday, May 7

7:00 am–8:00 am

Power Hour: Neuroradiology

Power Hour: Ultrasound

8:00 am–9:30 am

IC501-IC505

10:00 am–11:30 am/12:00 noon

IC506-IC508; SS27

1:00 pm–2:30 pm/3:00 pm

IC509-IC510; SS28

1st Choice 2nd Choice

Fees

Please circle the appropriate category

General Registration Fees

	Early Bird to February 12	Regular to March 26	On-Site
ARRS Physician Member	\$350	\$450	\$550
ARRS Emeritus/SRS Members	\$199	\$299	\$399
ARRS In-Training Physician Member	\$199	\$299	\$399
ARRS Technologist or Nurse Member	\$199	\$299	\$399
Nonmembers	\$850	\$950	\$1,050
Special ACR Only Rate	\$765	\$865	\$965

Fees for the categorical course and case-based imaging review course are in addition to the general registration fee. The guest fee includes admission to the exhibit hall, coffee breaks and lunch Monday–Wednesday.

General Registration Fee: \$ _____

Categorical Course Fee (\$180/\$260): \$ _____

Case-Based Imaging Review Fee (\$180/\$95/\$260): \$ _____

Guest Fee (\$85): \$ _____

Total Fees: \$ _____

___ Check Enclosed (in U.S. funds drawn on a U.S. bank made payable to ARRS)

___ MasterCard ___ Visa ___ American Express

Cardholder's Name _____

Credit Card # _____ Expiration Date _____

Signature _____

Register by credit card online at www.arrs.org or by completing this form. Register by fax with payment by credit card to 703-264-2093 or mail with payment by check in U.S. funds drawn on a U.S. bank to: P.O. Box 18001, Merrifield, VA 22118-0001. **Registrations by telephone will not be accepted.**

By attending this event, you grant ARRS permission to use photographs taken during the event in marketing materials promoting the ARRS and its meetings, including editorial usage. The ARRS will not sell your photographic likeness to a third party.

INVITATION



Please join us for the 2010 ARRS Annual Meeting at the Manchester Grand Hyatt in San Diego, CA. The meeting offers 57 CME credits and is designed to meet your educational requirements, whether you need credits in a particular subspecialty area or are interested in attending courses covering a variety of subspecialties.

The categorical course is on practical approaches to common clinical conditions. Chaired by Drs. Ruth Carlos, Yoshimi Anzai, Craig Blackmore, Paul Cronin and Santiago Medina, the program will focus on appropriate use of imaging in the wide spectrum of diseases. ARRS is again offering its popular case-based imaging review course for residents and physicians in practice. Directed by Drs. Deborah Baumgarten, Sanjeev Bhalla, Lonie Salkowski and Donald Yoo, the

course includes 330 cases representing 11 subspecialty areas. The 2010 annual meeting also includes three half-day courses focusing on radiology education, item writing and business and practice.

Instructional courses taught by respected radiology educators, scientific sessions highlighting the latest in radiology research and power hour sessions that feature authors of electronic exhibits discussing their exhibits complete the program.

We hope you can join us.

Ella Kazerooni, MD
President

GENERAL INFORMATION

Program Objectives

The 2010 Annual Meeting of the American Roentgen Ray Society has three goals:

- To offer an educational forum in the practice and science of radiology based on recognized needs;
- To provide a forum to report on, exchange information on and disseminate new developments and expert knowledge in radiology; and
- To ensure that the educational activities have influenced participants' knowledge, skills, behavior and practice performance.

Who Should Attend

Radiologists, radiologists-in-training and other health professionals interested in the science and practice of radiology.

Continuing Medical Education Credits

The ARRS is accredited by the Accreditation Council on Continuing Medical Education (ACCME) to sponsor continuing medical educational activities for physicians.

The ARRS designates this educational activity for a maximum of 57 AMA PRA Category 1™ credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

In order to receive CME credit, the attendee must fill out the online CME forms. A Web address will be sent to attendees before, during and after the meeting which will direct them to the CME forms.

A record of CME credits earned will be available to ARRS members on www.arrs.org. The ARRS has developed a Web-based tracking system that includes all CME credits earned through the ARRS Annual Meeting and other ARRS CME activities as well as SAM, PQI and subspecialty credits.

Special Needs

Individuals requiring auxiliary aids or services as identified in the Americans with Disabilities Act should contact Hope Neely at 800-227-5463, 703-648-8900 or hneely@acr-arrs.org.

Cell Phone Policy

Attendees are asked to have their cell phones on vibrate or turned off during all sessions.

Photography Policy

Picture taking or recording, other than by official photographers or videographers, is prohibited in the educational sessions as well as all other areas included as part of the annual meeting activities.

No-Smoking Policy

The ARRS has established a no-smoking policy for all of its meetings. The no-smoking policy applies to the meeting rooms as well as the exhibit hall.

Registration Fees

Registration for the 2010 annual meeting opens online at www.arrs.org on December 15, 2009. The early bird deadline is February 12, 2010. The regular deadline is March 26, 2010.

	Early Bird to February 12	Regular to March 26	On-Site
Physician Member	\$350	\$450	\$550
Emeritus/SRS Members	\$199	\$299	\$399
In-Training Physician Member	\$199	\$299	\$399
Technologist or Nurse Member	\$199	\$299	\$399
Nonmembers	\$850	\$950	\$1050
Special ACR Only Rate	\$765	\$865	\$965

Additional Fees

Guests	\$85
Categorical Course Members/Nonmembers	\$180/\$260
Review Course Members/Nonmembers	\$180/\$260
Review Course In-Training Members	\$95

After March 26, all registrations will be done on-site in San Diego, CA.

Nonmembers may apply for ARRS membership any time prior to and during the annual meeting and receive the membership registration fee discount. Nonmembers must submit a membership application with the annual meeting registration form by fax or mail prior to March 26, 2010, to receive the membership registration fee discount. After March 26, the membership application and annual meeting registration form must be submitted together at on-site registration in San Diego.

Cancellations received prior to March 26, 2010, will be processed after the meeting minus a \$100 cancellation fee. Refunds will not be provided for cancellations for any reason after March 26, 2010.

Register online at www.arrs.org or see page 1 for the registration form.

FREQUENTLY ASKED QUESTIONS

Q. When will registration open for the 2010 ARRS Annual Meeting?

A. Registration opens December 15, 2009.

Q. How do I register?

A. There are three easy ways to register:

1. Online registration is available at www.arrs.org.
2. Mail the registration form (see page 1) to ARRS at P.O. Box 18001, Merrifield, VA 22118-0001.
3. Fax the registration form (see page 1) to ARRS at 703-264-2093.

Q. What is the registration deadline?

A. Registration materials must be received in the office at ARRS headquarters by **Friday, March 26, 2010**. Early registration is strongly suggested as enrollment in courses is limited and registrations are processed in the order received.

Q. How do I make my hotel reservation?

A. The 2010 annual meeting will be held at the Manchester Grand Hyatt San Diego in San Diego, CA. **In order to make a reservation at the hotel at the ARRS special rate, you must register for the annual meeting first.** You will then be provided information to make your hotel reservation. The hotel reservation deadline is **Friday, March 26, 2010**.

Q. How do I register after the registration deadline?

A. After March 26, registrations will only be accepted at the ARRS registration desk at the Manchester Grand Hyatt San Diego. On-site registration will be open beginning at 1:00 pm Saturday, May 1, through 2:00 pm Friday, May 7.

Q. What does the general registration fee provide?

A. You will be provided a CD-ROM with educational session handouts and a program book. Opening ceremonies that includes the presidential address and the Gold Medal presentations; more than 75 specialty-focused instructional courses; more than 25 scientific sessions; the scholars and awards session; the Caldwell Lecture; the scientific exhibit hall with more than 300 electronic exhibits; case of the day; Internet café; and a commercial exhibit hall with more than 50 vendors along with a complimentary lunch served daily Monday, May 3–Wednesday, May 5 are included in the general registration fee. There is a separate guest fee not included as part of the general registration fee.

Q. Do I need to register guests for the meeting?

A. Yes, the guest fee is \$85 and includes access to the exhibit hall including lunches (Monday-Wednesday) as well as all coffee and snack breaks throughout the week. Guests are not allowed entry to the fee-based categorical course or case-based imaging review course and are not eligible to claim CME credit or receive the CD-ROM or program book. Individuals eligible for ARRS membership may not register as guests and must pay the general registration fee.

Q. What is the categorical course?

A. This three-day intensive course focused on efficient imaging is scheduled Sunday, May 2–Tuesday, May 4. This course is not included in the general registration fee. **ARRS members pay an additional fee of \$180 and non-members pay an additional fee of \$260.** Registration of the categorical course requires payment of the general registration fee. Participants will receive a printed categorical course syllabus as part of their educational materials. CME may not be claimed for this course if an individual has not registered and paid the additional fee. Only those registered for this course will be allowed entry.

Q. What is the case-based imaging review course?

A. This four-day comprehensive review course designed for residents preparing to enter practice as well as those in practice who are interested in a focused

review using case-based approach to imaging differential diagnosis. Scheduled Tuesday, May 4–Friday, May 7, this course is not included in the general registration fee. **ARRS members pay an additional fee of \$180 and non-members pay an additional fee of \$260. ARRS members in-training (residents and fellows) pay an additional fee of \$95.** Registration for the case-based imaging review course requires payment of the general registration fee. Participants will receive a printed workbook as part of their educational materials. CME may not be claimed for this course if an individual has not registered and paid the additional fee. Only those registered for this course will be allowed entry.

Q. Will I receive a registration confirmation?

A. Registration confirmations are e-mailed to registrants. It is important to provide your e-mail address with your registration materials to ensure receipt of your confirmation.

Q. What is the cancellation policy?

A. Written requests for cancellation may be received by e-mail at meeting@arrs.org; fax at 703-264-2093, or mail to: Attn: ARRS Member Services at 1891 Preston White Drive, Reston, VA 20191-4326. Written requests for refunds received prior to March 26, 2010, will be processed after the meeting minus a \$100 cancellation fee. After March 26, cancellations will be processed but refunds will not be issued for any reason. Cancellations will not be accepted by telephone.

Q. Can I become an ARRS member to take advantage of registration savings?

A. Absolutely! If you plan to attend the 2010 annual meeting, apply for membership at the same time that you submit your annual meeting registration form to ensure your membership status is confirmed and you receive the membership registration discount. To apply for membership:

1. Apply Online: Go to www.arrs.org and click on Membership. Be sure to indicate on the online form that you plan to attend the 2010 annual meeting and fax your annual meeting registration form to the ARRS after submitting your online membership application at 703-264-2093.
2. Download Application: Go to www.arrs.org, click on Membership and send the completed application to: Attn: ARRS Member Services at 1891 Preston White Drive, Reston, VA 20191-4326 or fax to 703-264-2093 along with the annual meeting registration form.

Q. What do you recommend for those traveling to the meeting from outside the United States?

A. Visa applications are now subject to greater scrutiny. International attendees should apply for a Visa no later than January 2010 to attend the annual meeting in May. For more information, go to www.travel.state.gov/visa/index.html. If you require a letter of invitation from the ARRS for Visa purposes, go to the annual meeting section of www.arrs.org, e-mail meeting@arrs.org or fax 703-264-2093.

Q. What does the Special ACR Only Rate listed in the registration fees mean?

A. Members of the ACR (American College of Radiology) who are not members of the ARRS may claim the Special ACR Only Rate for annual meeting registration. This special rate is made possible due to the strategic partnership between ARRS and ACR. You must be a current member of the ACR and not be a member of the ARRS to take this rate. Members of the ARRS should claim the appropriate ARRS registration category rate of physician, emeritus or in-training member. To claim the Special ACR Only Rate, you may fax your registration form to the ARRS at 703-264-2093 or mail the registration form to the ARRS at Attn: ARRS Member Services at 1891 Preston White Drive, Reston, VA 20191-4326.

HOTEL AND TRAVEL

Hotel Reservations

The ARRS has negotiated a block of rooms at the Manchester Grand Hyatt San Diego on behalf of those attending the ARRS annual meeting. **To take advantage of the special negotiated ARRS rates, you must be registered for the annual meeting first.** Annual meeting registration is available at www.arrs.org. Registration for the ARRS annual meeting opens December 15, 2009.

Once you have registered for the ARRS annual meeting, you will be provided with a unique online link to book your hotel reservation. Hotel reservations must be made online by Friday, **March 26, 2010**, to qualify for the special ARRS rates. After that date, the ARRS room block will be released and higher rates may apply.

Room reservation requests made by phone, fax or mail will not be accepted. The ARRS reserves the right to cancel any hotel reservation made within the ARRS room block by individuals not registered for the ARRS annual meeting.

Manchester Grand Hyatt San Diego Rates

Standard Rooms Single or Double \$239

Grand Club Single or Double \$314

All rates are quoted in U.S. funds and subject to applicable state and local taxes (currently 12.5%) and a \$0.21 CA tourism fee.

Hotel Confirmations

When you make your reservations online you will receive a confirmation from the hotel along with instructions if you need to make changes to your hotel reservation. In order to receive your confirmation, you must provide your e-mail address.

Deposits

All reservations must be guaranteed with a credit card. Deposits are fully refundable if cancelled at least one (1) day prior to arrival. No-shows on confirmed reservations will be charged one night room rate and applicable taxes.

Cancellations/Changes

Cancellations must be made one (1) day in advance of the arrival date to avoid a one night room and tax charge. Changes to your reservation can be made up until the day of arrival. Any cancellations and changes to your reservation must be done online.

Questions Regarding Hotel Reservations

Please contact the hotel directly using the directions provided when your hotel reservation was made online. The ARRS is not able to answer questions regarding your hotel reservation.

Travel Information

Airline Transportation

American Airlines will offer special meeting fares with discounts of 5%. American Eagle flights are also eligible for discounts. Reservations may be made by calling 800-433-1790 from 7:00 am to 12:00 am CST. Please be sure to reference **STARFile Number A1410SS**. For online bookings, please visit www.aa.com and enter 1410SS as the promotion code.

Car Rental

Hertz is the official car rental company for this meeting. To reserve a car, call Hertz at 800-654-2240 and refer to the discount number **CV#04FN0001**. For online bookings, visit www.hertz.com, check "I have a discount," select "Convention Number (CV)" and enter **04FN0001**. There is a Hertz desk at the Manchester Grand Hyatt San Diego. Advance reservations are recommended, as cars are subject to availability.



Registration Hours

Saturday, May 1

1:00 pm–5:00 pm

Sunday, May 2

6:30 am–6:30 pm

Monday, May 3–

Thursday, May 6

6:30 am–4:30 pm

Friday, May 7

6:30 am–2:00 pm

Presidential Address & Gold Medal Awards

Sunday, May 2

6:15 pm–7:30 pm

Member Business Meeting

Wednesday, May 5

2:45 pm–3:15 pm

Commercial Exhibit Hours

Monday, May 3–

Wednesday, May 5

9:15 am–4:00 pm

Lunch served

12:00 noon–1:00 pm

Electronic Exhibit Hours

Sunday, May 2

1:00 pm–6:00 pm

Monday, May 3–

Wednesday, May 5

7:00 am–12:00 midnight

Thursday, May 6

7:00 am–4:15 pm

Register and apply for membership online at www.arrs.org

CATEGORICAL COURSE

Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC³E) Setting the PAC³E of Imaging

Course Directors: Ruth C. Carlos, MD; Yoshimi Anzai, MD; C. Craig Blackmore, MD, PhD; Paul P. Cronin, MD; L. Santiago Medina, MD, MPH
Registration and a separate fee are required for this course.

Who Should Attend: Radiologists, radiologists-in-training and other health professionals interested in practical and efficient application of imaging in the evaluation of common cardiothoracic, neuroradiologic, pediatric, and emergency radiology conditions.

Goals and Objectives: Following completion of the program, participants should have an understanding of practical approaches for appropriate use of imaging in the wide spectrum of diseases and disorders affecting the heart, lungs, brain, spine, gastrointestinal tract and musculoskeletal system for efficient evidence-based management of adult and pediatric patients in the ambulatory and emergency settings.

Sunday, May 2

7:30 am–6:00 pm

7:30 am–7:35 am	Introduction— <i>R. Carlos</i>
7:35 am–8:00 am	Introduction to Evidence-Based Imaging— <i>S. Medina</i>
8:00 am–9:00 am	Acute Chest Pain in the Emergency Department: Overview, Protocol, Application and Scientific Basis— <i>C. White</i>
9:00 am–9:20 am	Imaging in Pulmonary Embolus: Imaging Findings in Thromboembolic Disease— <i>A. Kelly</i>
9:20 am–9:40 am	Imaging in Pulmonary Embolus: Current Controversies in PE Imaging— <i>P. Cronin</i>
9:40 am–10:00 am	Imaging in Pulmonary Embolus: Accuracy of Imaging PE/ Current Guidelines— <i>A. Kelly</i>
10:00 am–10:30 am	BREAK
10:30 am–10:50 am	Diagnosing Coronary Artery Disease: Technique and Novel Technologies— <i>U.J. Schoepf</i>
10:50 am–11:30 am	Diagnosing Coronary Artery Disease: Coronary CTA— <i>U.J. Schoepf</i>
11:30 am–11:50 am	Imaging of Aortic Aneurysms: Screening— <i>P. Cronin</i>
11:50 am–12:10 pm	Imaging of Aortic Aneurysms: Diagnosis— <i>A. Kelly</i>
12:10 pm–12:30 pm	Imaging of Aortic Aneurysms: Surgical vs. Endovascular Treatment— <i>P. Cronin</i>
12:30 pm–1:30 pm	LUNCH ON ATTENDEE'S OWN
1:30 pm–2:30 pm	Updates in Lung Cancer: Role of Imaging in Screening, Staging and Restaging Lung Cancer— <i>J. Ravenel</i>
2:30 pm–2:50 pm	Imaging of the Pediatric Chest: Chest Infection— <i>S. Westra</i>
2:50 pm–3:10 pm	Imaging of the Pediatric Chest: Mediastinal Non-Vascular Masses— <i>E. Lee</i>
3:10 pm–3:30 pm	Imaging of the Pediatric Chest: Vascular Rings, Slings, Tracheal Rings— <i>R. Krishnamurthy</i>
3:30 pm–4:00 pm	BREAK
4:00 pm–4:30 pm	Stroke: Role of Imaging for Diagnosis of Acute Stroke— <i>N. Beauchamp</i>
4:30 pm–5:00 pm	Stroke: Treatment of Acute Stroke— <i>D. Hallam</i>
5:00 pm–5:30 pm	Low Back Pain: When and How Do You Image Back Pain— <i>J. Jarvik</i>
5:30 pm–6:00 pm	Low Back Pain: How Do You Treat Low Back Pain— <i>G. Zoarski</i>

Monday, May 3

7:30 am–6:10 pm

7:30 am–8:00 am	Dementia: Role of MR Imaging for Diagnosis— <i>M. Petrou</i>
8:00 am–8:30 am	Dementia: Role of PET Imaging for Prognosis— <i>S. Minoshima</i>
8:30 am–9:10 am	Traumatic Brain Injury: When and How to Image and Prediction Criteria— <i>Y. Anzai</i>
9:10 am–9:30 am	Traumatic Brain Injury: Advanced Imaging Techniques— <i>R. Lee</i>
9:30 am–10:00 am	BREAK
10:00 am–10:30 am	Nontraumatic Acute Intracerebral Hemorrhage: Diagnostic Work-up and Algorithm— <i>J. Kim</i>
10:30 am–11:00 am	Nontraumatic Acute Intracranial Hemorrhage: Treatment of Cerebral AVM— <i>B. Ghodke</i>
11:00 am–11:30 am	Imaging in Cervical Spine Trauma: Use of CT— <i>S. Mirvis</i>
11:30 am–12:00 noon	Imaging in Cervical Spine Trauma: Use of MRI— <i>A. Flanders</i>
12:00 noon–1:00 pm	LUNCH IN EXHIBIT HALL
1:00 pm–2:00 pm	Appendicitis— <i>C. Blackmore, J. Rhea</i>
2:00 pm–2:30 pm	Imaging of Appendicitis in Pregnancy— <i>D. Katz</i>
2:30 pm–3:00 pm	Abdominal Ischemia— <i>I. Kirkpatrick</i>
3:00 pm–3:30 pm	BREAK
3:30 pm–4:00 pm	Obstruction— <i>M. Staunton</i>
4:00 pm–4:30 pm	Abdominal Trauma— <i>J. Gross</i>
4:30 pm–5:00 pm	Imaging in Acetabular Trauma— <i>A. Wilson</i>
5:00 pm–5:30 pm	Evidence-Based Imaging of Injuries of the Hip: Current Concepts— <i>J. Yu</i>
5:30 pm–5:50 pm	Pediatric Musculoskeletal Imaging: Slipped Capital and Femoral Epiphysis and Obesity— <i>R. Restrepo</i>
5:50 pm–6:10 pm	Pediatric Musculoskeletal Imaging: Imaging in Scoliosis— <i>G. Khanna</i>

Tuesday, May 4

7:00 am–12:00 noon

7:00 am–7:30 am	Imaging in Nonaccidental Pediatric Trauma: CNS Injury— <i>Y. Sato</i>
7:30 am–8:00 am	Imaging of Child Abuse: Non-CNS Injury— <i>K. Applegate</i>
8:00 am–8:40 am	Imaging of the Pediatric Abdomen: Pyloric Stenosis and Malrotation— <i>M. Hernanz-Schulman</i>
8:40 am–9:20 am	Imaging of the Pediatric Abdomen: Appendicitis/ Intussusception— <i>K. Applegate</i>
9:20 am–10:00 am	Imaging of the Pediatric Abdomen: Abdominal Neoplasms— <i>M. Siegel</i>
10:00 am–10:30 am	BREAK
10:30 am–11:00 am	Where the Rubber Meets the Road: IT in Critical Results Reporting—The Challenges and the Promises Where We Are Now and Where We Are Going— <i>J. Chen</i>
11:00 am–11:30 am	Where the Rubber Meets the Road: Evidence-Based Medicine and the Courts— <i>A. Relyea-Chew</i>
11:30 am–12:00 noon	Where the Rubber Meets the Road: Evidence-Based Medicine and Economics/Regulations— <i>D. Larson</i>
12:00 noon–1:00 pm	LUNCH IN EXHIBIT HALL

2010 ARRS CASE-BASED IMAGING REVIEW

Course Directors: Deborah Baumgarten, MD, MPH; Sanjeev Bhalla, MD; Lonie Salkowski, MD; Donald Yoo, MD

Registration and a separate fee are required for this course.

Who Should Attend: Radiology professionals at all career stages with an interest in a review of diagnostic imaging cases representing a wide array of specialty areas.

Goals and Objectives: Upon completion of the course, participants should be able to:

1. detect, comprehensively assess and correctly diagnose various conditions and diseases from 11 radiology subspecialties;
2. identify and recommend the most advantageous imaging modality or interventional technique for cases encountered in their practice; and
3. describe the distinguishing characteristics that aid in pinpointing the correct diagnosis of cases that are imaged in practice.

Tuesday, May 4

1:00 pm–3:30 pm Nuclear Medicine

PET/CT—*D. Yoo**
Endocrine—*E. Akin*
Gastrointestinal—*H. Jacene*
Pediatrics—*T. Wong*
Skeletal—*C. Rajadhyaksha*

4:00 pm–6:30 pm Cardiovascular Imaging

Cardiac MR: Common Applications—*C. Javidan-Nejad*
Cardiac CT: Common Applications—*J. Hsu*
Pulmonary Artery CT and MR—*K. Birchard*
Plain Film—*S. Bhalla**
Aortic CT and MR—*S. Seth*

Wednesday, May 5

7:30 am–10:00 am Breast Imaging

Calcifications—*T. Stephens*
Ultrasound Evaluation of Mammographic Findings—*A. Nees*
Architectural Distortion and Asymmetries—*L. Salkowski**
Ductal Pathology—*M. Szabunio*
Breast MRI—*R. Meierotto*

1:00 pm–3:30 pm Pediatric Imaging

Chest/Pulmonary—*E. Lee**
Musculoskeletal—*E. Mann*
Abdominal—*S. Anupindi*
Neurology—*D. Rivard*
Genitourinary—*S. Diperna*

4:00 pm–6:30 pm Vascular and Interventional Radiology

Arterial Diagnosis—*B. Funaki*
Arterial Therapy—*S. Zangan**
Venous Interventions—*C. Ray*
Nonvascular Interventions—*M.G. Knuttinen*
Interventional Oncology—*A. Nemcek*



Thursday, May 6

7:30 am–10:00 am Gastrointestinal Imaging

Liver—*C. Santillan**
Gallbladder/Biliary—*B. Yeh*
Pancreas—*C. Menias*
Small Bowel—*Z.J. Wang*
Colon—*H. Zafar*

10:30 am–1:00 pm Musculoskeletal Imaging

Injuries—*D. Blankenbaker**
Funny Looking Bones—*K. Davis*
Soft Tissue Tumors—*C. Gaskin*
Bone Tumors—*N. Safdar*
Arthritis—*S. Smith*

2:30 pm–5:00 pm Neuroradiology

Head and Neck—*M. Michel*
Spine—*J. Anderson**
Potpourri—*C. Glastonbury*
Intracranial Tumors—*C.D. Phillips*
Vascular—*M. Strother*

Friday, May 7

7:30 am–10:00 am Genitourinary Imaging

Male Pelvis—*D. Casalino*
Kidney/Retroperitoneum—*E. Remer*
Female Pelvis—*C. Peterson*
Collecting System, Ureter, Bladder—*M. Hartman*
Miscellaneous—*D. Baumgarten**

10:30 am–1:00 pm Chest Imaging

Radiographic Signs—*G. Abbott**
Congenital Abnormalities—*E. Donnelly*
Autoimmune/Idiopathic—*D. Manos*
Trauma/Iatrogenic—*E. Moore*
Diffuse Lung Disease—*A. Sharma*

2:00 pm–4:30 pm Ultrasound

Obstetrics—*B. Hertzberg**
Gynecology—*O. Baltarowich*
Abdomen—*U. Hamper*
Small Parts—*D. Rubens*
Vascular—*L. Scouff*

*Section Chair

HALF-DAY COURSES

Sunday, May 2

Item-Writing Workshop

Course Director: Jannette Collins, MD

8:00 am–12:00 noon

Who Should Attend: Radiology professionals with an interest in writing multiple-choice items for ABR exams, SAMs and other adult educational activities.

Goals and Objectives: Upon completion of the program, the participants should be able to write and edit multiple-choice items appropriate for adult educational activities, in particular ABR examinations and ABR-qualified self-assessment modules (SAMs). This course requires that attendees read a pre-selected journal article and write an MCQ related to the article following guidelines in a handout that will be distributed via e-mail to all registrants. Registrants should submit the MCQ to ARRS prior to the ARRS meeting. During the course, attendees will participate in small and large group critiques of the MCQs.

8:00 am–8:30 am

Update on ABR Written Exams and SAMs—*G. Becker*

8:30 am–9:30 am

The Role of Objectives in Writing MCQs—*B. Wood*

9:30 am–10:40 am

Writing Good MCQs—*J. Collins*

10:40 am–12:00 noon

Review of Participant and Instructor MCQs—*J. Collins*

Education Seminar: Effective Feedback

Course Director: Richard Gunderman, MD

1:30 pm–5:00 pm

Who Should Attend: Radiology professionals and educators seeking to better understand feedback and enhance the quality of feedback in their organizations.

Goals and Objectives: Upon completion of this course, attendees will be able to: define feedback in education and the different forms it can take; outline the features that characterize effective feedback; and develop strategies for improving the frequency and quality of feedback in their educational programs.

1:30 pm–1:35 pm

Introduction—*R. Gunderman*

1:35 pm–2:05 pm

Feedback's Pros and Cons—*R. Gunderman*

2:05 pm–2:30 pm

Feedback 101—*B. Wood*

2:30 pm–3:00 pm

Why We Hate to Evaluate—*S. Gay*

3:30 pm–3:50 pm

Promoting Critical Reflection—*S. Chan*

3:50 pm–4:10 pm

What Shall We Do With All This Feedback?—*A. Douglas-Akinwande*

4:10 pm–5:00 pm

Critical Communications and Difficult Conversations—*J. Lewin*

Business and Practice Management Seminar

Course Director: Jonathan Berlin, MD

1:30 pm–5:00 pm

Who Should Attend: Radiologists and allied health care professionals at all levels of training with an interest in the business and management of radiology as well as the impact of the current political and economic climate on radiology practice.

Goals and Objectives: Upon completion of the business and practice management seminar, participants will be able to: describe the current and anticipated policy, economic and legislative changes and actions that will have an impact on radiology practice, and identify changes in business practices that can be implemented to assure continued viability.

1:30 pm–2:00 pm

Issues in Radiology Utilization: The Payer's Perspective—*R. Leithiser*

2:00 pm–2:30 pm

Federal Health Care Reform and Its Impact on Radiology—*F. Lexa*

2:30 pm–3:00 pm

Radiology Benefit Managers: St. George or the Dragon?—*D. Levin*

3:30 pm–4:00 pm

Voice Recognition: Financial and Non-Financial Factors—*J. Berlin*

4:00 pm–4:30 pm

Why Radiologists Are Losing Their Hospital Contracts: Is Your Contract Safe?—*L. Muroff*

4:30 pm–5:00 pm

Leadership Challenges for Radiology in the Future—*A. Kaye*



Register and apply for membership online at www.arrs.org

DAILY SCHEDULE

Log on to www.arrs.org for the most up-to-date schedule and registration information.

Sunday, May 2

7:30 am–6:00 pm

Categorical Course: Practical Approaches to Common Clinical Conditions:
Efficient Imaging (PAC³E)—*Setting the PAC³E of Imaging*

8:00 am–12:00 noon

Item-Writing Workshop

1:30 pm–5:00 pm

Education Seminar: Effective Feedback
Business and Practice Management Seminar

4:30 pm–5:30 pm

SRS Guest Program

6:15 pm–7:30 pm

Opening Night Events: Presidential Address and Gold Medal Presentations

Monday, May 3

7:00 am–8:00 am

Power Hour: Breast Imaging
Power Hour: Nuclear Medicine

7:30 am–6:10 pm

Categorical Course: Practical Approaches to Common Clinical Conditions:
Efficient Imaging (PAC³E)—*Setting the PAC³E of Imaging*

8:00 am–9:30 am

- IC101. Breast Ultrasound: Basics Principles and Future—*S. Raza, M. Kettler*
- IC102. Cardiac CTA: Setting up a Cardiac Service; Reimbursement Issues—*D. Dowe*; Technical Considerations and Principles of Cardiac CTA—*S. Abbara*; Protocols and Reconstructions—*U.J. Schoepf*
- IC103. PET/CT for Solitary Pulmonary Nodule, Lung Cancer, and After Thermal Ablation—*S. Nayak, H. Agress, D. Yoo*
- IC104. Malpractice Issues in Radiology: Update 2010—*L. Berlin*
- IC105. Thromboembolic Axis of Evil: DVT, PE and IVC Filters—*T. Burdick, M. Bittles, K. Daly*
- SS1. Efficacy, Education and PACS

9:30 am–10:30 am

Caldwell Lecture: Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region

10:30 am–12:00 noon

- IC106. Breast Nuclear Medicine: PEM and PET—*D. Mankoff, G. Mercier*
- IC107. Cardiac CTA: Anatomy—*S. Patel*; Anomalies, Bypass Grafts and Stents—*G. Reddy*; Clinical Cases: Tips and Tricks—*S. Teague*
- IC108. PET/CT in Head and Neck Cancer—*R. Subramaniam, E. Rohren*
- IC109. ABR Update—*G. Becker, J. Crowe, N.R. Dunnick, E. Kazerooni*
- IC110. Pulmonary Interventions: AVMs and Bronchial Artery Embolization; Diagnosis—*A. Funaki*; Pulmonary Embolization—*C. Burke*; Bronchial Embolization—*B. Funaki*
- SS2. Efficacy, Education and PACS

12:00 noon–1:00 pm

LUNCH IN EXHIBIT HALL

1:00 pm–2:30 pm/3:00 pm

- IC111. Cardiac CTA: Assessment of Noncoronary Cardiac Disease—*G. Gladish*; Adult Congenital Heart Disease—*R. Gilkeson*; Chest Pain in the Emergency Department—*C. White*
- IC112. Optimizing PET/CT Imaging Protocols, PET/CT for Breast Cancer and Dementia—*T. Wong, E. Akin, A. Siegel*
- IC113. Overutilization—*J. Thrall, P. Basu*
- SS3. Breast Imaging
- SS4. Gastrointestinal Imaging
- SS5. Vascular and Interventional Radiology

2:30 pm–3:30 pm

Scholars and Awards Session

4:00 pm–5:30 pm/6:00 pm

- IC114. Pancreatic Imaging: Practical Approach to the Cystic Lesion—*K. Mortelet*; Benign Pancreas Disease—*M. Federle*; Solid Pancreatic Neoplasms—*D. Morgan*
- IC115. Basic Screening Principles—*D. Georgian-Smith*; Controversies on High Risk Lesions at Core Biopsy: Radiology and Pathology Perspectives—*T. Lawton*
- IC116. Cardiac MRI: The Basics—*M. Atalay*; Cardiomyopathies and Dysplasias—*J. Judy*; Ischemic Heart Disease: Perfusion, Function, Viability—*M. Krishnam*
- IC117. Interventional Radiology for the Diagnostic Radiologist—*C. Ray, A. Nemcek, K. Kondo*
- SS6. Musculoskeletal Imaging
- SS7. Nuclear Medicine

Tuesday, May 4

7:00 am–8:00 am

Power Hour: Abdominal Imaging
Power Hour: Vascular and Interventional Radiology

7:00 am–12:00 noon

Categorical Course: Practical Approaches to Common Clinical Conditions:
Efficient Imaging (PAC³E)—*Setting the PAC³E of Imaging*

8:00 am–9:30 am

- IC201. Navigating CT and MRI of the Liver: MRI Technique and Diffuse Liver Disease—*J. Leyendecker*; Hepatocellular Disease—*T. Desser*; Cholangiocarcinoma—*B. Choi*
- IC202. Basic Principles of Breast Imaging: The Risks of Breast Density Challenging Cases: An Interactive Review—*J. Harvey, L. Bassett*
- IC203. Rotator Cuff of the Shoulder: Why, How and Where It Fails—*D. Resnick, TBD*
- IC204.* State of the Art Imaging of the Temporal Bone: Pre-and Postoperative Evaluation—*R. Harnsberger, T. Larson*
- IC205. Nuclear Medicine Therapies for Cancer: Radioimmunotherapy, Microspheres Therapy and Radioiodine Therapy—*A. Sheikh, H. Jacene, S. Goetze*

10:00 am–11:30 am/12:00 noon

- IC206.* MRI and US of Elbow Injuries—*J. Jacobson, Z.S. Rosenberg, V. Khoury*
- IC207. Differential Diagnosis of Basal Ganglia Lesions—*M. Castillo, Z. Rumbolt*
- SS8. Breast Imaging
- SS9. Cardiopulmonary Imaging
- SS10. Gastrointestinal Imaging
- SS11. Vascular and Interventional Radiology



12:00 noon–1:00 pm

LUNCH IN EXHIBIT HALL

1:00 pm–3:30 pm

Review Course: Nuclear Medicine

1:00 pm–2:30 pm/3:00 pm

- IC208. Acute Bowel—Current Imaging: Bowel Obstruction—*W. Thompson*;
MDCT Techniques and Trauma—*R. Thoeni*; Small Bowel Ischemia and
Obstruction—*C. Menias*; Diverticulitis and Appendicitis—*E. Webb*
IC209.* Hip Imaging and Sports Hernia—*W. Morrison, D. Blankenbaker, I. Omar*
IC210. Glands of the Visceral Space: Thyroid and Parathyroid Imaging—
Y. Anzai, L. Loevner, D. Shatzkes
SS12. Breast Imaging
SS13. Cardiopulmonary Imaging
SS14. Vascular and Interventional Radiology

4:00 pm–5:30 pm/6:00 pm

- IC211. Breast MRI: Basic Clinical Principles and Navigating the New ACR
Accreditation Breast MR Program—*C. Comstock, M. Boston*
IC212. Lesions of the Jaw and Larynx—*R. Daffner, A. Lupetin*
IC213.* Bars, Screws, Struts, Cages and Scars: A Review of the Postoperative
Spine—*J. Ross, T. Naidich*
IC214. Interventional Radiology Oncology—*D. Madoff*
SS15. Gastrointestinal Imaging
SS16. Pediatric Imaging

4:00 pm–6:30 pm

Review Course: Cardiovascular Imaging

Wednesday, May 5**7:00 am–8:00 am**

Power Hour: Cardiopulmonary Imaging
Power Hour: Pediatric Imaging

7:30 am–10:00 am

Review Course: Breast Imaging

8:00 am–9:30 am

- IC301. CT Colonography—Technique, Interpretation and the Future: New
Strategies for CTC Interpretation—*J. Yee*; Noncathartic CT
Colonography—*M. Zalis*; State-of-the-Art CTC Technique—*D. Kim*;
CTC Reimbursement and the Future—*J. Yee*
IC302. Radiographic and CT Imaging of Pulmonary Infections: TB/NTMB,
Community-Acquired, Immunocompromised—*K. Soo Lee, J. Fishman,*
L. Ketaj, H.P. McAdams
IC303. MR Imaging of the Knee—*M. Recht, C. Glaser*
IC304.* Cerebral Venous Imaging: Current Techniques and Diagnostic Pitfalls—
J. Leach, T. Abruzzo
IC305. Upper Extremity Sports Injuries in Children: State of the Art—
N. Chauvin; Painful Topics in Pediatric Orthopedics: Review—
M. Dempsey-Robertson; Pediatric Bone Lesions: Review—*P. Karakas*
IC306. Aortic Stent Grafts: Imaging and Intervention—Thoracic Stent Grafts,
Overview of Devices and Cases—*R. Hieb*; Planning Abdominal Aortic
Grafts—*M. Neisen*; Secondary Interventions: When and How—
F. Facchini

10:00 am–11:30 am/12:00 noon

- IC307. Arthritis: Basic and Advanced Imaging—*D. Flemming, M. Bruno,*
L. Bancroft
IC308. You've Got a Lot of Nerve...Until You Don't! Perineural Tumor Spread
and Patterns of Denervation—*L. Ginsberg, W. Smoker*

- IC309. Cranial Ultrasound: State of the Art—*L. Lowe*; Pediatric Spine Imaging:
State of the Art—*N. Kadom*; Pediatric Leukodystrophies: Review—*I. Kim*
IC310. Vertebroplasty: The Beginner's Course—*S. Tutton, J. Hirsch, J. Lippert*
SS17. Cardiopulmonary Imaging
SS18. Gastrointestinal Imaging

12:00 noon–1:00 pm

LUNCH IN EXHIBIT HALL

1:00 pm–2:30 pm/3:00 pm

- IC311. Benign Diseases of the Female Pelvis: Imaging of Infertility: From HSG
to MRI—*J. Fielding*; Urogynecology and Pelvic Floor Imaging—
A. Thurmond; Problematic Early Pregnancies—*R. Goldstein*; The Cystic
Ovarian Mass—*M. Patel*
IC312. Digital Breast Tomosynthesis—*D. Gur, M. Zuley, J. Sumkin*
IC313. HRCT Imaging of Lung—*G. Abbott, A. Sharma, M. Gosselin*
IC314. Radiation Safety (Vascular and Interventional Radiology)—*B. Dixon*
SS19. Musculoskeletal Imaging
SS20. Neuroradiology

1:00 pm–3:30 pm

Review Course: Pediatric Imaging

2:45 pm–3:15 pm

Member Business Meeting

4:00 pm–5:30 pm/6:00 pm

- IC315. Renal Parenchyma, Vessels and Urothelium: Renal Parenchyma—
V. Dogra; GU Vasculature—*M. Lockhart*; Urothelium—*E. Caoili*; Renal
Neoplasms—*Z. Wang*
IC316. Ethical Issues in the Field of Breast Imaging—*P. Kornguth*;
Medical-Legal—*L. Berlin*
IC317. HRCT: Airway and Smoking-Related Lung Disease—*A. Bankier,*
C. Meyer, J. Kanne, E. Donnelly
IC318. Musculoskeletal Tumors and PET Imaging—*M. Murphey, J. Peterson*
IC319.* Advanced Imaging Techniques for Head and Neck Disease—
S. Mukherji, A. Srinivasan
IC320. Pediatric Abdominal Imaging: State of the Art—*R. Goodman*; Intestinal
Obstruction in Children: State of the Art—*L. Fenton*; Neonatal
Abdominal Emergencies: Review—*J. Reid*

4:00 pm–6:30 pm

Review Course: Vascular and Interventional Radiology

Thursday, May 6**7:00 am–8:00 am**

Power Hour: Emergency/General Radiology
Power Hour: Musculoskeletal Imaging

7:30 am–10:00 am

Review Course: Gastrointestinal Imaging

**CODE KEY**

CC=Categorical Course
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IC=Instructional Course
IW=Item-Writing Workshop

PS=Practice Seminar
SS=Scientific Session

* Advanced Level Courses

DAILY SCHEDULE

Log on to www.arrs.org for the most up-to-date schedule and registration information.

8:00 am–9:30 am

- IC401. CTA of the Thorax: Pulmonary Thromboembolic Disease, Arterial and Venous Malformations, Acute Aortic Syndromes and Postoperative Evaluation of the Aorta—*L. Washington, S. Bhalla, C. Chiles, K. Birchard*
- IC402. Emergency Radiology: CT Protocols and Techniques: Evolving Concepts in MDCT Imaging of Abdominal Pain—*S. Anderson*; Imaging the Obese Patient in the Emergency Department—*M. Gunn*; MDCT in the Emergency Department: Update Your Protocols—*A. Sodickson*
- IC403. Multimodality Imaging of the Shoulder—*K. Buckwalter, K. Schreiber*
- IC404. Pediatric Large Airway Disease: State of the Art—*E. Lee*; Pediatric Interstitial Lung Disease: State of the Art—*P. Guillerman*; Congenital Lungs: Review—*C. Carrico*
- IC405. Pharmacology in Interventional Radiology: Sedation and Analgesia Primer, Anti-Coagulation and Anti-Platelet Therapy and Antibiotics, etc.—*H. Ferral, P. Gamboa, J. Lopera*
- SS21. Neuroradiology

10:00 am–11:30 am/12:00 noon

- IC406. Hot Topics in Thoracic Imaging: Radiation Dose, CAD-SPN, PE, Decision Analysis, Dual Source, Dual Energy CT, Functional Imaging—*L. Hurwitz, H. MacMahon, J. Vlahos, J. Goldin*
- IC407. Special Topics
- SS22. Emergency/General Radiology
- SS23. Gastrointestinal Imaging
- SS24. Neuroradiology

10:30 am–1:00 pm

Review Course: Musculoskeletal Imaging

12:30 pm–2:00 pm

- IC408. Beyond the Visceral Organs—The Mesentery and Peritoneum: Peritoneal Spaces: Emphasis on Compartmentalization—*P. Min*; Vasculature and Improved Abdominopelvic Diagnosis—*B. Yeh*; Retroperitoneal Spaces—*J. Brink*
- IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—*J. Bruzzi, E. Rohren, J. Ko*
- IC410. Emergency Radiology: Simplifying the Diagnosis of Complex Musculoskeletal Injuries: Simplifying Intra-Articular Calcaneus Fractures—*O.C. West*; Less Common and Sometimes Confusing Injuries In and About the Hip—*L. Rogers*; Simplifying Radiographic Indicators of Major Ligamentous Injuries of the Knee—*J. Yu*
- IC411.* Noninvasive Vascular Neuroimaging: Ultrasound, CT Angiography and MR Angiography—*J. Gemmete, D. Kim, B. Huang*
- IC412.* Contrast-Enhanced Ultrasound in Radiology—Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—*P. Burns*; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—*S. Wilson*

2:30 pm–5:00 pm

Review Course: Neuroradiology

3:00 pm–4:30 pm/5:00 pm

- IC413. Thoracic PET-CT: Interpretation Predicaments and Future Developments—*O. Mawlawi, E. Marom, M. Truong, T. Wong*
- IC414. Medical Professionalism—*G. Butler*; Beyond Substance Abuse: Stress, Burnout, and Depression—*S. Brown* (2009 Berlin Scholar)

- IC415. Emergency Radiology: Current Concepts in Thoracic and Abdominal Trauma: MDCT of Thoracic Trauma—*R. Novelline*; MDCT of Splenic Trauma: New Concepts—*K. Shanmuganathan*; MDCT of Bowel and Mesenteric Injuries—*J. Soto*
- IC416. Renal Sonography: Renal Lesions Hiding in Plain Sight—*B. Hashimoto*; Duplex and Color Doppler of the Kidneys—*S. Teefey*
- SS25. Genitourinary Imaging
- SS26. Musculoskeletal Imaging

Friday, May 7

7:00 am–8:00 am

Power Hour: Neuroradiology
Power Hour: Ultrasound

7:30 am–10:00 am

Review Course: Genitourinary Imaging

8:00 am–9:30 am

- IC501. Radiographs and CT: Back to the Basics (chest imaging)—*J. Shepard, A. Rubinowitz, S. Copley, S. Rossi*
- IC502. Exposure to Low Dose Radiation from Medical Imaging—*R. Fazel*; Measuring the Quality of Life Effects of Diagnostic Tests—*S. Swan*
- IC503. Emergency Radiology: Neuroradiology, Head and Neck Emergencies—Acute Head and Neck Infections—*W. Kubal*; MDCT of Cranio-Facial Trauma—*M. Bernstein*; Neck CTA in Trauma—*F. Munera*
- IC504.* A Basic Review of Brain Tumors and New Entities According to the WHO Classification—*K. Salzman, W. Pope*
- IC505. Gynecologic Ultrasound: Update on Ultrasound Evaluation of the Endometrium—*U. Hamper*; A Practical Approach to Ultrasound Evaluation of Pelvic Masses—*L. Scutt*

10:00 am–11:30 am/12:00 noon

- IC506. Contrast Materials—Critical Update: Contrast Induced Nephropathy—*B. Herts*; Allergic Reactions to Contrast Material—*R. Cohan*; Nephrogenic Systemic Fibrosis—*P. Kuo* (abdominal imaging)
- IC507. Imaging of the Post-Treatment Neck with CT and MRI—*C. Glastonbury, D. Williams*
- IC508. Pearls and Pitfalls in Obstetric Ultrasound: First Trimester—*T. Angtuaco*; Second and Third Trimesters Part 1—*L. Romine*; Second and Third Trimesters Part 2—*D. Pretorius*
- SS27. Musculoskeletal Imaging

10:30 am–1:00 pm

Review Course: Chest Imaging

1:00 pm–2:30 pm/3:00 pm

- IC509. Radiation Issues Related to CT Utilization—*M. Parker*; Strategies to Reduce CT Dose—*M. Gunn*
- IC510.* Imaging of Children and Adults with Epilepsy—*N. Salamon, R. Lee*
- SS28. Genitourinary Imaging

2:00 pm–4:30 pm

Review Course: Ultrasound

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* Advanced Level Courses

SPECIALTY TRACKS

Log on to www.arrs.org for the most up-to-date schedule and registration information.

BREAST IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the detection and management of breast diseases.

Goals and Objectives: Upon completion of the breast imaging course track, the participant should be able to determine the appropriate use of computer-aided detection, core biopsy, sonography, MR as well as have a better understanding of the ethical and legal aspects of imaging of breast cancer. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various breast diseases.

Monday, May 3

7:00 am–8:00 am

Power Hour: Breast Imaging

8:00 am–9:30 am

IC101. Breast Ultrasound: Basics Principles and Future—*S. Raza, M. Kettler*

10:30 am–12:00 noon

IC106. Breast Nuclear Medicine: PEM and PET—*D. Mankoff, G. Mercier*

1:00 pm–2:30 pm/3:00 pm

IC112. Optimizing PET/CT Imaging Protocols, PET/CT for Breast Cancer and Dementia—*T. Wong, E. Akin, A. Siegel*

SS3. Breast Imaging

4:00 pm–5:30 pm

IC115. Basic Screening Principles—*D. Georgian-Smith*; Controversies on High Risk Lesions at Core Biopsy: Radiology and Pathology Perspectives—*T. Lawton*

Tuesday, May 4

8:00 am–9:30 am

IC202. Basic Principles of Breast Imaging: The Risks of Breast Density Challenging Cases: An Interactive Review—*J. Harvey, L. Bassett*

10:00 am–12:00 noon

SS8. Breast Imaging

1:00 pm–3:00 pm

SS12. Breast Imaging

4:00 pm–5:30 pm

IC211. Breast MRI: Basic Clinical Principles and Navigating the New ACR Accreditation Breast MR Program—*C. Comstock, M. Boston*

Wednesday, May 5

7:30 am–10:00 am

Review Course: Breast Imaging

Calcifications—*T. Stephens*

Ultrasound Evaluation of Mammographic Findings—*A. Nees*

Architectural Distortion and Asymmetries—*L. Salkowski*

Ductal Pathology—*M. Szabunio*

Breast MRI—*R. Meierotto*

1:00 pm–2:30 pm

IC312. Digital Breast Tomosynthesis—*D. Gur, M. Zuley, J. Sumkin*

4:00 pm–5:30 pm

IC316. Ethical Issues in the Field of Breast Imaging—*P. Kornguth*; Medical-Legal—*L. Berlin*

BUSINESS AND PRACTICE MANAGEMENT

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the business and management of radiology practice.

Goals and Objectives: Upon completion of the business and practice management course track, the participant will be able to understand and respond to contemporary issues and challenges facing radiology, including but not limited to changes in reimbursement and payer regulations, medical liability, turf battles, patient surveys, physician productivity, ethics, and contemporary practice issues such as practical tips for optimizing the practice of radiology, including but not limited to the introduction of new services such as cardiac CTA and MRI screening.

Sunday, May 2

1:30 pm–5:00 pm

PS. Issues in Radiology Utilization: The Payer's Perspective—*R. Leithiser*

PS. Federal Health Care Reform and Its Impact on Radiology—*F. Lexa*

PS. Radiology Benefit Managers: St. George or the Dragon?—*D. Levin*

PS. Voice Recognition: Financial and Non-Financial Factors—*J. Berlin*

PS. Why Radiologists Are Losing Their Hospital Contracts: Is Your Contract Safe?—*L. Muroff*

PS. Leadership Challenges for Radiology in the Future—*A. Kaye*

Monday, May 3

8:00 am–9:30 am

IC102. Cardiac CTA: Setting up a Cardiac Service; Reimbursement Issues—*D. Dowe*; Technical Considerations and Principles of Cardiac CTA—*S. Abbara*; Protocols and Reconstructions—*U.J. Schoepf*

IC104. Malpractice Issues in Radiology: Update 2010—*L. Berlin*

SS1. Efficacy, Education and PACS

9:30 am–10:30 am

Caldwell Lecture: Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region

10:30 am–12:00 noon

IC109. ABR Update—*G. Becker, J. Crowe, N.R. Dunnick, E. Kazerooni*

SS2. Efficacy, Education and PACS

1:00 pm–2:30 pm

IC113. Overutilization—*J. Thrall, P. Basu*

Tuesday, May 4

10:30 am–12:00 noon

CC. Where the Rubber Meets the Road: IT in Evidence-Based Medicine/ Critical Results Reporting—*J. Chen*

CC. Where the Rubber Meets the Road: Evidence-Based Medicine and the Courts—*A. Relyea-Chew*

CC. Where the Rubber Meets the Road: Evidence-Based Medicine and Economics/Regulations—*D. Larson*

Wednesday, May 5

4:00 pm–5:30 pm

IC316. Ethical Issues in the Field of Breast Imaging—*P. Kornguth*; Medical-Legal—*L. Berlin*

Thursday, May 6

3:00 pm–4:30 pm

IC414. Medical Professionalism—*G. Butler*; Beyond Substance Abuse: Stress, Burnout, and Depression—*S. Brown* (2009 Berlin Scholar)

SPECIALTY TRACKS

Log on to www.arrs.org for the most up-to-date schedule and registration information.

Friday, May 7

1:00 pm–2:30 pm

- IC509. Radiation Issues Related to CT Utilization—*M. Parker*; Strategies to Reduce CT Dose—*M. Gunn*

CARDIAC IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the detection and management of diseases of the heart and great vessels.

Goals and Objectives: Upon completion of the cardiac imaging course track, the participant should be able to determine the appropriate use of CT and MR in the management of patients with heart disease. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various cardiovascular diseases.

Sunday, May 2

10:30 am–12:30 pm

- CC. Diagnosing Coronary Artery Disease: Technique and Novel Technologies—*U.J. Schoepf*
CC. Diagnosing Coronary Artery Disease: Coronary CTA—*U.J. Schoepf*
CC. Imaging of Aortic Aneurysms: Screening—*P. Cronin*
CC. Imaging of Aortic Aneurysms: Diagnosis—*A. Kelly*
CC. Imaging of Aortic Aneurysms: Surgical vs. Endovascular Treatment—*P. Cronin*

Monday, May 3

8:00 am–9:30 am

- IC102. Cardiac CTA: Setting up a Cardiac Service; Reimbursement Issues—*D. Dowe*; Technical Considerations and Principles of Cardiac CTA—*S. Abbara*; Protocols and Reconstructions—*U.J. Schoepf*

10:30 am–12:00 noon

- IC107. Cardiac CTA: Anatomy—*S. Patel*; Anomalies, Bypass Grafts and Stents—*G. Reddy*; Clinical Cases: Tips and Tricks—*S. Teague*

1:00 pm–2:30 pm

- IC111. Cardiac CTA: Assessment of Noncoronary Cardiac Disease—*G. Gladish*; Adult Congenital Heart Disease—*R. Gilkeson*; Chest Pain in the Emergency Department—*C. White*

4:00 pm–5:30 pm

- IC116. Cardiac MRI: The Basics—*M. Atalay*; Cardiomyopathies and Dysplasias—*J. Judy*; Ischemic Heart Disease: Perfusion, Function, Viability—*M. Krishnam*

Tuesday, May 4

10:00 am–12:00 noon

- SS9. Cardiopulmonary Imaging

1:00 pm–3:00 pm

- SS13. Cardiopulmonary Imaging

4:00 pm–6:30 pm

- Review Course: Cardiovascular Imaging
Cardiac MR: Common Applications—*C. Javidan-Nejad*
Cardiac CT: Common Applications—*J. Hsu*
Pulmonary Artery CT and MR—*K. Birchard*
Plain Film—*S. Bhalla*
Aortic CT and MR—*S. Seth*

Wednesday, May 5

7:00 am–8:00 am

- Power Hour: Cardiopulmonary Imaging

10:00 am–12:00 noon

- SS17. Cardiopulmonary Imaging

CHEST/PULMONARY IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the evaluation and treatment of thoracic diseases.

Goals and Objectives: Upon completion of the chest/pulmonary imaging course track, the participant should be able to incorporate the proper use of various imaging modalities in the diagnosis and treatment of adult and pediatric patients in both the emergency and nonemergency setting. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various thoracic diseases.

Sunday, May 2

8:00 am–10:00 am

- CC. Acute Chest Pain in the Emergency Department: Overview, Protocol, Application and Scientific Basis—*C. White*
CC. Imaging in Pulmonary Embolus: Imaging Findings in Thromboembolic Disease—*A. Kelly*
CC. Imaging in Pulmonary Embolus: Current Controversies in PE Imaging—*P. Cronin*
CC. Imaging in Pulmonary Embolus: Accuracy of Imaging PE/Current Guidelines—*A. Kelly*

1:30 pm–4:00 pm

- CC. Updates in Lung Cancer: Role of Imaging in Screening, Staging and Restaging Lung Cancer—*J. Ravenel*
CC. Imaging of the Pediatric Chest: Chest Infection—*S. Westra*
CC. Imaging of the Pediatric Chest: Mediastinal Nonvascular Masses—*E. Lee*
CC. Imaging of the Pediatric Chest: Vascular Rings, Slings, Trach Rings—*R. Krishnamurthy*

Monday, May 3

8:00 am–9:30 am

- IC103. PET/CT for Solitary Pulmonary Nodule, Lung Cancer, and After Thermal Ablation—*S. Nayak, H. Agress, D. Yoo*

10:30 am–12:00 noon

- IC110. Pulmonary Interventions: AVMs and Bronchial Artery Embolization; Diagnosis—*A. Funaki*; Pulmonary Embolization—*C. Burke*; Bronchial Embolization—*B. Funaki*

Tuesday, May 4

10:00 am–12:00 noon

- SS9. Cardiopulmonary Imaging

1:00 pm–3:00 pm

- SS13. Cardiopulmonary Imaging

Wednesday, May 5

7:00 am–8:00 am

Power Hour: Cardiopulmonary Imaging

8:00 am–9:30 am

IC302. Radiographic and CT Imaging of Pulmonary Infections: TB/NTMB, Community-Acquired, Immunocompromised—*K. Soo Lee, J. Fishman, L. Ketaj, H.P. McAdams*

10:00 am–12:00 noon

SS17. Cardiopulmonary Imaging

1:00 pm–2:30 pm

IC313. HRCT Imaging of Lung—*G. Abbott, A. Sharma, M. Gosselin*

4:00 pm–5:30 pm

IC317. HRCT: Airway and Smoking-Related Lung Disease—*A. Bankier, C. Meyer, J. Kanne, E. Donnelly*

Thursday, May 6

8:00 am–9:30 am

IC401. CTA of the Thorax: Pulmonary Thromboembolic Disease, Arterial and Venous Malformations, Acute Aortic Syndromes and Postoperative Evaluation of the Aorta—*L. Washington, S. Bhalla, C. Chiles, K. Birchard*

IC404. Pediatric Large Airway Disease: State of the Art—*E. Lee*; Pediatric Interstitial Lung Disease: State of the Art—*P. Guillerman*; Congenital Lungs: Review—*C. Carrico*

10:00 am–11:30 am

IC406. Hot Topics in Thoracic Imaging: Radiation Dose, CAD-SPN, PE, Decision Analysis, Dual Source, Dual Energy CT, Functional Imaging—*L. Hurwitz, H. MacMahon, J. Vlahos, J. Goldin*

12:30 pm–2:00 pm

IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—*J. Bruzzi, E. Rohren, J. Ko*

3:00 pm–4:30 pm

IC413. Thoracic PET/CT: Interpretation Predicaments and Future Developments—*O. Mawlawi, E. Marom, M. Truong, T. Wong*
IC415. Emergency Radiology: MDCT of Thoracic Trauma—*R. Novelline*
(This course also includes presentations on abdominal trauma.)

Friday, May 7

8:00 am–9:30 am

IC501. Radiographs and CT: Back to the Basics (chest imaging)—*J. Shepard, A. Rubinowitz, S. Copley, S. Rossi*

10:30 am–1:00 pm

Review Course: Chest Imaging
Radiographic Signs—*G. Abbott*
Congenital Abnormalities—*E. Donnelly*
Autoimmune/Idiopathic—*D. Manos*
Trauma/Iatrogenic—*E. Moore*
Diffuse Lung Disease—*A. Sharma*

EDUCATION AND COMPETENCIES

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in medical education and maintenance of certification.

Goals and Objectives: Upon completion of the education course track, participants should have a better understanding of adult learning principles and be able to incorporate practical tips to create an effective learning environment. Participants will be able to write and edit multiple choice questions and develop self assessment modules. In addition, participants will learn how to implement practice programs that will allow them to meet their competency requirements as part of the maintenance of certification program.

Sunday, May 2

8:00 am–12:00 noon

Item-Writing Workshop
Update on ABR Written Exams and SAMs—*G. Becker*
The Role of Objectives in Writing MCQs—*B. Wood*
Writing Good MCQ—*J. Collins*
Review of Participant and Instructor MCQs—*J. Collins*

1:30 pm–5:00 pm

Education Seminar: Effective Feedback
Introduction—*R. Gunderman*
Feedback's Pros and Cons—*R. Gunderman*
Feedback 101—*B. Wood*
Why We Hate to Evaluate—*S. Gay*
Promoting Critical Reflection—*S. Chan*
What Shall We Do With All This Feedback?—*A. Douglas-Akinwande*
Critical Communications and Difficult Conversations—*J. Lewin*



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* *Advanced Level Courses*

SPECIALTY TRACKS

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Monday, May 3

10:30 am–12:00 noon

- IC109. ABR Update—*G. Becker, J. Crowe, N.R. Dunnick, E. Kazerooni*
- SS2. Efficacy, Education and PACS

Wednesday, May 5

1:00 pm–2:30 pm

- IC314. Radiation Safety (Vascular and Interventional Radiology)—*B. Dixon*

4:00 pm–5:30 pm

- IC316. Ethical Issues in the Field of Breast Imaging—*P. Kornguth*; Medical-Legal *L. Berlin*

Thursday, May 6

3:00 pm–4:30 pm

- IC414. Medical Professionalism—*G. Butler*; Beyond Substance Abuse: Stress, Burnout, and Depression—*S. Brown* (2009 Berlin Scholar)

Friday, May 7

8:00 am–9:30 am

- IC502. Exposure to Low Dose Radiation from Medical Imaging—*R. Fazel*; Measuring the Quality of Life Effects of Diagnostic Tests—*S. Swan*

10:00 am–11:30 am

- IC506. Contrast Materials—Critical Update: Contrast Induced Nephropathy—*B. Herts*; Allergic Reactions to Contrast Material—*R. Cohan*; Nephrogenic Systemic Fibrosis—*P. Kuo* (abdominal imaging)

1:00 pm–2:30 pm

- IC509. Radiation Issues Related to CT Utilization—*M. Parker*; Strategies to Reduce CT Dose—*M. Gunn*



Please note that preregistration for educational sessions included in the general registration fee does not guarantee a seat. While we will make every effort to ensure adequate space for each session, seating for some sessions may be limited. It is best to arrive early for the sessions you wish to attend.

EMERGENCY RADIOLOGY

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the use of various imaging modalities to confidently diagnose and manage patients with traumatic and/or nontraumatic cardiovascular, abdominal, musculoskeletal, and head and neck emergencies.

Goals and Objectives: Upon completion of the emergency radiology course track, the participants should be able to optimize their protocols for appropriate and efficient management of patients with traumatic and/or nontraumatic cardiovascular, abdominal, musculoskeletal, and head and neck emergencies.

Sunday, May 2

4:00 pm–5:00 pm

- CC. Stroke: Role of Imaging for Diagnosis of Acute Stroke—*N. Beauchamp*
- CC. Stroke: Treatment of Acute Stroke—*D. Hallam*

Monday, May 3

8:30 am–9:30 am

- CC. Traumatic Brain Injury: When and How to Image and Prediction Criteria—*Y. Anzai*
- CC. Traumatic Brain Injury: Advanced Imaging Techniques—*R. Lee*

11:00 am–12:00 noon

- CC. Imaging in Cervical Spine Trauma: Use of CT—*S. Mirvis*
- CC. Imaging in Cervical Spine Trauma: Use of MRI—*A. Flanders*

4:00 pm–5:00 pm

- CC. Abdominal Trauma—*J. Gross*
- CC. Imaging in Acetabular Trauma—*A. Wilson*

Tuesday, May 4

7:00 am–7:30 am

- CC. Imaging in Nonaccidental Pediatric Trauma: CNS Injury—*Y. Sato*

1:00 pm–2:30 pm

- IC208. Acute Bowel-Current Imaging: Bowel Obstruction—*W. Thompson*; MDCT Techniques and Trauma—*R. Thoeni*; Small Bowel Ischemia and Obstruction—*C. Menias*; Diverticulitis and Appendicitis—*E. Webb*

Wednesday, May 5

4:00 pm–5:30 pm

- IC320. Pediatric Abdominal Imaging: State of the Art—*R. Goodman*; Intestinal Obstruction in Children: State of the Art—*L. Fenton*; Neonatal Abdominal Emergencies: Review—*J. Reid*



Thursday, May 6

7:00 am–8:00 am

Power Hour: Emergency/General Radiology

8:00 am–9:30 am

IC402. Emergency Radiology: CT Protocols and Techniques: Evolving Concepts in MDCT Imaging of Abdominal Pain—*S. Anderson*; Imaging the Obese Patient in the Emergency Department—*M. Gunn*; MDCT in the Emergency Department: Update Your Protocols—*A. Sodickson*

10:00 am–11:30 am

SS22. Emergency/General Radiology

12:30 pm–2:00 pm

IC410. Emergency Radiology: Simplifying the Diagnosis of Complex Musculoskeletal Injuries: Simplifying Intra-Articular Calcaneus Fractures—*O.C. West*; Less Common and Sometimes Confusing Injuries In and About the Hip—*L. Rogers*; Simplifying Radiographic Indicators of Major Ligamentous Injuries of the Knee—*J. Yu*

3:00 pm–4:30 pm

IC415. Emergency Radiology: Current Concepts in Thoracic and Abdominal Trauma: MDCT of Thoracic Trauma—*R. Novelline*; MDCT of Splenic Trauma: New Concepts—*K. Shanmuganathan*; MDCT of Bowel and Mesenteric Injuries—*J. Soto*

Friday, May 7

8:00 am–9:30 am

IC503. Emergency Radiology: Neuroradiology, Head and Neck Emergencies—Acute Head and Neck Infections—*W. Kubal*; MDCT of Cranio-Facial Trauma—*M. Bernstein*; Neck CTA in Trauma—*F. Munera*



GASTROINTESTINAL IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the evaluation and treatment of diseases of the gastrointestinal system.

Goals and Objectives: Upon completion of the gastrointestinal imaging course track, the participant should be able to incorporate the proper use of CT, MR and PET/CT in the diagnosis and treatment of adult and pediatric patients with diseases of the liver, bowel, pancreas and colon. The participant should understand an organized approach to interpreting studies for acute gastrointestinal disease, tumor screening, and tumor staging, and should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for these entities.

Monday, May 3

1:00 pm–3:00 pm

SS4. Gastrointestinal Imaging

1:00 pm–4:30 pm

- CC. Appendicitis—*C. Blackmore, J. Rhea*
- CC. Imaging of Appendicitis in Pregnancy—*D. Katz*
- CC. Abdominal Ischemia—*I. Kirkpatrick*
- CC. Obstruction—*M. Staunton*
- CC. Abdominal Trauma—*J. Gross*

4:00 pm–5:30 pm

- IC114. Pancreatic Imaging: Practical Approach to the Cystic Lesion—*K. Mortelet*; Benign Pancreas Disease—*M. Federle*; Solid Pancreatic Neoplasms—*D. Morgan*

Tuesday, May 4

7:00 am–8:00 am

Power Hour: Abdominal Imaging

7:00 am–10:30 am

- CC. Imaging of the Pediatric Abdomen: Pyloric Stenosis and Malrotation—*M. Hernanz-Schulman*
- CC. Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—*K. Applegate*
- CC. Imaging of the Pediatric Abdomen: Abdominal Neoplasms—*M. Siegel*

8:00 am–9:30 am

- IC201. Navigating CT and MRI of the Liver: MRI Technique and Diffuse Liver Disease—*J. Leyendecker*; Hepatocellular Disease—*T. Desser*; Cholangiocarcinoma—*B. Choi*

10:00 am–12:00 noon

SS10. Gastrointestinal Imaging

1:00 pm–3:00 pm

- IC208. Acute Bowel-Current Imaging: Bowel Obstruction—*W. Thompson*; MDCT Techniques and Trauma—*R. Thoeni*; Small Bowel Ischemia and Obstruction—*C. Menias*; Diverticulitis and Appendicitis—*E. Webb*

4:00 pm–6:00 pm

SS15. Gastrointestinal Imaging

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Wednesday, May 5

8:00 am–9:30 am

IC301. CT Colonography—Technique, Interpretation and the Future: New Strategies for CTC Interpretation—*J. Yee*; Noncathartic CT Colonography—*M. Zalis*; State-of-the-Art CTC Technique—*D. Kim*; CTC Reimbursement and the Future—*J. Yee*

10:00 am–12:00 noon

SS18. Gastrointestinal Imaging

4:00 pm–5:30 pm

IC320. Pediatric Abdominal Imaging: State of the Art—*R. Goodman*; Intestinal Obstruction in Children: State of the Art—*L. Fenton*; Neonatal Abdominal Emergencies: Review—*J. Reid*

Thursday, May 6

7:30 am–10:00 am

Review Course: Gastrointestinal Imaging
Liver—*C. Santillan*
Gallbladder/Biliary—*B. Yeh*
Pancreas—*C. Menias*
Small Bowel—*Z. J. Wang*
Colon—*H. Zafar*

8:00 am–9:30 am

IC402. Emergency Radiology: CT Protocols and Techniques: Evolving Concepts in MDCT Imaging of Abdominal Pain—*S. Anderson*; Imaging the Obese Patient in the Emergency Department—*M. Gunn*; MDCT in the Emergency Department: Update Your Protocols—*A. Sodickson*

10:00 am–12:00 noon

SS23. Gastrointestinal Imaging

12:30 pm–2:00 pm

IC408. Beyond the Visceral Organs—The Mesentery and Peritoneum: Peritoneal Spaces: Emphasis on Compartmentalization—*P. Min*; Vasculature and Improved Abdominopelvic Diagnosis—*B. Yeh*; Retroperitoneal Spaces—*J. Brink*

IC412. Contrast-Enhanced Ultrasound in Radiology—Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—*P. Burns*; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—*S. Wilson*

3:00 pm–4:30 pm

IC415. Emergency Radiology: Current Concepts in Thoracic and Abdominal Trauma: MDCT of Thoracic Trauma—*R. Novelline*; MDCT of Splenic Trauma: New Concepts—*K. Shanmuganathan*; MDCT of Bowel and Mesenteric Injuries—*J. Soto*

Friday, May 7

10:00 am–11:30 am

IC506. Contrast Materials—Critical Update: Contrast Induced Nephropathy—*B. Herts*; Allergic Reactions to Contrast Material—*R. Cohan*; Nephrogenic Systemic Fibrosis—*P. Kuo* (abdominal imaging)

GENITOURINARY IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the detection and management of diseases affecting the genitourinary system.

Goals and Objectives: Upon completion of the genitourinary imaging course track, the participant should be able to apply current imaging techniques, including ultrasound, CT and MR imaging, to the diagnosis and treatment of diseases in the male and female pelvis. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various genitourinary diseases.

Monday, May 3

1:00 pm–4:30 pm

- CC. Appendicitis—*C. Blackmore, J. Rhea*
- CC. Imaging of Appendicitis in Pregnancy—*D. Katz*
- CC. Abdominal Ischemia—*I. Kirkpatrick*
- CC. Obstruction—*M. Staunton*
- CC. Abdominal Trauma—*J. Gross*

Tuesday, May 4

7:00 am–8:00 am

Power Hour: Abdominal Imaging

7:00 am–10:30 am

- CC. Imaging of the Pediatric Abdomen: Pyloric Stenosis and Malrotation—*M. Hernanz-Schulman*
- CC. Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—*K. Applegate*
- CC. Imaging of the Pediatric Abdomen: Abdominal Neoplasms—*M. Siegel*

Wednesday, May 5

8:00 am–9:30 am

IC306. Aortic Stent Grafts: Imaging and Intervention—Thoracic Stent Grafts, Overview of Devices and Cases—*R. Hieb*; Planning Abdominal Aortic Grafts—*M. Neisen*; Secondary Interventions: When and How—*F. Facchini*

1:00 pm–3:00 pm

IC311. Benign Diseases of the Female Pelvis: Imaging of Infertility: From HSG to MRI—*J. Fielding*; Urogynecology and Pelvic Floor Imaging—*A. Thurmond*; Problematic Early Pregnancies—*R. Goldstein*; The Cystic Ovarian Mass—*M. Patel*

4:00 pm–5:30 pm/6:00 pm

IC315. Renal Parenchyma, Vessels and Urothelium: Renal Parenchyma—*V. Dogra*; GU Vasculature—*M. Lockhart*; Urothelium—*E. Caoili*; Renal Neoplasms—*Z. Wang*

IC320. Pediatric Abdominal Imaging: State of the Art—*R. Goodman*; Intestinal Obstruction in Children: State of the Art—*L. Fenton*; Neonatal Abdominal Emergencies: Review—*J. Reid*

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Thursday, May 6

8:00 am–9:30 am

IC402. Emergency Radiology: CT Protocols and Techniques: Evolving Concepts in MDCT Imaging of Abdominal Pain—*S. Anderson*; Imaging the Obese Patient in the Emergency Department—*M. Gunn*; MDCT in the Emergency Department: Update Your Protocols—*A. Sodickson*

12:30 pm–2:00 pm

IC408. Beyond the Visceral Organs-The Mesentery and Peritoneum: Peritoneal Spaces: Emphasis on Compartmentalization—*P. Min*; Vasculature and Improved Abdominopelvic Diagnosis—*B. Yeh*; Retroperitoneal Spaces—*J. Brink*

IC412. Contrast-Enhanced Ultrasound in Radiology-Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—*P. Burns*; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—*S. Wilson*

3:00 pm–4:30 pm/5:00 pm

IC415. Emergency Radiology: Current Concepts in Thoracic and Abdominal Trauma: MDCT of Thoracic Trauma—*R. Novelline*; MDCT of Splenic Trauma: New Concepts—*K. Shanmuganathan*; MDCT of Bowel and Mesenteric Injuries—*J. Soto*

IC416. Renal Sonography: Renal Lesions Hiding in Plain Sight—*B. Hashimoto*; Duplex and Color Doppler of the Kidneys—*S. Teefey*

SS25. Genitourinary Imaging

Friday, May 7

7:30 am–10:00 am

Review Course: Genitourinary Imaging

Male Pelvis—*D. Casalino*

Kidney/Retroperitoneum—*E. Remer*

Female Pelvis—*C. Peterson*

Collecting System, Ureter, Bladder—*M. Hartman*

Miscellaneous—*D. Baumgarten*

8:00 am–9:30 am

IC505. Gynecologic Ultrasound: Update on Ultrasound Evaluation of the Endometrium—*U. Hamper*; A Practical Approach to Ultrasound Evaluation of Pelvic Masses—*L. Scoutt*

10:00 am–11:30 am

IC506. Contrast Materials—Critical Update: Contrast Induced Nephropathy—*B. Herts*; Allergic Reactions to Contrast Material—*R. Cohan*; Nephrogenic Systemic Fibrosis—*P. Kuo* (abdominal imaging)

IC508. Pearls and Pitfalls in Obstetric Ultrasound: First Trimester—*T. Angtuaco*; Second and Third Trimesters Part I—*L. Romine*; Second and Third Trimesters Part II—*D. Pretorius*

1:00 pm–3:00 pm

SS28. Genitourinary Imaging



MUSCULOSKELETAL IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the detection and management of diseases affecting the musculoskeletal system.

Goals and Objectives: Upon completion of the musculoskeletal imaging course track, the participant should be able to determine and apply appropriate imaging methods, including ultrasound, MR and PET, to the diagnosis and treatment of diseases of the hip, spine, knee, shoulder, joints and soft tissues. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various musculoskeletal diseases.

Sunday, May 2

5:00 pm–6:00 pm

CC. Low Back Pain: When and How Do You Image Back Pain—*J. Jarvik*

CC. Low Back Pain: How Do You Treat Low Back Pain—*G. Zoarski*

Monday, May 3

11:00 am–12:00 noon

CC. Imaging in Cervical Spine Trauma: Use of CT—*S. Mirvis*

CC. Imaging in Cervical Spine Trauma: Use of MRI—*A. Flanders*

4:00 pm–6:00 pm

SS6. Musculoskeletal Imaging

4:30 pm–6:10 pm

CC. Imaging in Acetabular Trauma—*A. Wilson*

CC. Evidence-Based Imaging of Injuries of the Hip: Current Concepts—*J. Yu*

CC. Pediatric Musculoskeletal Imaging: Slipped Capital Femoral Epiphysis and Obesity—*R. Restrepo*

CC. Pediatric Musculoskeletal Imaging: Imaging in Scoliosis—*G. Khanna*

Tuesday, May 4

8:00 am–9:30 am

IC203. Rotator Cuff of the Shoulder: Why, How and Where It Fails—*D. Resnick, TBD*

10:00 am–11:30 am

IC206* MRI and US of Elbow Injuries—*J. Jacobson, Z.S. Rosenberg, V. Khoury*

1:00 pm–2:30 pm

IC209* Hip Imaging and Sports Hernia—*W. Morrison, D. Blankenbaker, I. Omar*

4:00 pm–5:30 pm

IC212. Lesions of the Jaw and Larynx—*R. Daffner, A. Lupetin*

Wednesday, May 5

8:00 am–9:30 am

IC303. MR Imaging of the Knee—*M. Recht, C. Glaser*

IC305. Upper Extremity Sports Injuries in Children: State of the Art—*N. Chauvin*; Painful Topics in Pediatric Orthopedics: Review—*M. Dempsey-Robertson*; Pediatric Bone Lesions: Review—*P. Karakas*

10:00 am–11:30 am

IC307. Arthritis: Basic and Advanced Imaging—*D. Flemming, M. Bruno, L. Bancroft*

1:00 pm–3:00 pm

SS19. Musculoskeletal Imaging

4:00 pm–5:30 pm

IC318. Musculoskeletal Tumors and PET Imaging—*M. Murphey, J. Peterson*

SPECIALTY TRACKS

Log on to www.arrs.org for the most up-to-date schedule and registration information.

Thursday, May 6

7:00 am–8:00 am

Power Hour: Musculoskeletal Imaging

8:00 am–9:30 am

IC403. Multimodality Imaging of the Shoulder—*K. Buckwalter, K. Schreibman*

10:30 am–1:00 pm

Review Course: Musculoskeletal Imaging

Injuries—*D. Blankenbaker*

Funny Looking Bones—*K. Davis*

Soft Tissue Tumors—*C. Gaskin*

Bone Tumors—*N. Safdar*

Arthritis—*S. Smith*

12:30 pm–2:00 pm

IC410. Emergency Radiology: Simplifying the Diagnosis of Complex Musculoskeletal Injuries: Simplifying Intra-Articular Calcaneus Fractures—*O.C. West*; Less Common and Sometimes Confusing Injuries In and About the Hip—*L. Rogers*; Simplifying Radiographic Indicators of Major Ligamentous Injuries of the Knee—*J. Yu*

3:00 pm–5:00 pm

SS26. Musculoskeletal Imaging

Friday, May 7

10:00 am–12:00 noon

SS27. Musculoskeletal Imaging



NEURORADIOLOGY

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the detection and management of diseases affecting the brain, head, neck, and/or spine in the adult and pediatric patient.

Goals and Objectives: Upon completion of the neuroradiology course track, participants should be able to determine and apply appropriate imaging techniques and recognize imaging features. In addition they should have gained proficiency in constructing an imaging differential diagnosis for various diseases and disorders of the brain, head, neck, and spine.

Sunday, May 2

4:00 pm–6:00 pm

- CC. Stroke: Role of Imaging for Diagnosis of Acute Stroke—*N. Beauchamp*
- CC. Stroke: Treatment of Acute Stroke—*D. Hallam*
- CC. Low Back Pain: When and How Do You Image Back Pain—*J. Jarvik*
- CC. Low Back Pain: How Do You Treat Low Back Pain—*G. Zoarski*

Monday, May 3

7:30 am–9:30 am

- CC. Dementia: Role of MR Imaging for Diagnosis—*M. Petrou*
- CC. Dementia: Role of PET Imaging for Prognosis—*S. Minoshima*
- CC. Traumatic Brain Injury: When and How to Image and Prediction Criteria—*Y. Anzai*
- CC. Traumatic Brain Injury: Advanced Imaging Techniques—*R. Lee*

10:00 am–12:00 noon

- CC. Nontraumatic Acute Intracerebral Hemorrhage: Diagnostic Work-Up and Algorithm—*J. Kim*
- CC. Nontraumatic Acute Intracranial Hemorrhage: Treatment of Cerebral AVM—*B. Ghodke*
- CC. Imaging in Cervical Spine Trauma: Use of CT—*S. Mirvis*
- CC. Imaging in Cervical Spine Trauma: Use of MRI—*A. Flanders*

10:30 am–12:00 noon

IC108. PET/CT in Head and Neck Cancer—*R. Subramaniam, E. Rohren*

1:00 pm–2:30 pm

IC112. Optimizing PET/CT Imaging Protocols, PET/CT for Breast Cancer and Dementia—*T. Wong, E. Akin, A. Siegel*

Tuesday, May 4

8:00 am–9:30 am

IC204.* State of the Art Imaging of the Temporal Bone: Pre-and Postoperative Evaluation—*R. Harnsberger, T. Larson*

10:00 am–11:30 am

IC207. Differential Diagnosis of Basal Ganglia Lesions—*M. Castillo, Z. Rumbolt*

1:00 pm–2:30 pm

IC210. Glands of the Visceral Space: Thyroid and Parathyroid Imaging—*Y. Anzai, L. Loevner, D. Shatzkes*

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SS=Scientific Session

* *Advanced Level Courses*

4:00 pm–5:30 pm

IC213.* Bars, Screws, Struts, Cages and Scars: A Review of the Postoperative Spine—*J. Ross, T. Naidich*

Wednesday, May 5**8:00 am–9:30 am**

IC304.* Cerebral Venous Imaging: Current Techniques and Diagnostic Pitfalls—*J. Leach, T. Abruzzo*

10:00 am–11:30 am

IC308. You've Got a Lot of Nerve... Until You Don't! Perineural Tumor Spread and Patterns of Denervation—*L. Ginsberg, W. Smoker*

IC309. Cranial Ultrasound: State of the Art—*L. Lowe*; Pediatric Spine Imaging: State of the Art—*N. Kadom*; Pediatric Leukodystrophies: Review—*I. Kim*

1:00 pm–2:30 pm

SS20. Neuroradiology

4:00 pm–5:30 pm

IC319.* Advanced Imaging Techniques for Head and Neck Disease—*S. Mukherji, A. Srinivasan*

Thursday, May 6**8:00 am–9:30 am**

SS21. Neuroradiology

10:00 am–11:30 am

SS24. Neuroradiology

12:30 pm–2:00 pm

IC411.* Noninvasive Vascular Neuroimaging: Ultrasound, CT Angiography and MR Angiography—*J. Gemmete, D. Kim, B. Huang*

2:30 pm–5:00 pm

Review Course: Neuroradiology
Head and Neck—*M. Michel*
Spine—*J. Anderson*
Potpourri—*C. Glastonbury*
Intracranial Tumors—*C. D. Phillips*
Vascula—*M. Strother*

Friday, May 7**7:00 am–8:00 am**

Power Hour: Neuroradiology

8:00 am–9:30 am

IC503. Emergency Radiology: Neuroradiology, Head and Neck Emergencies—*Acute Head and Neck Infections—W. Kubal*; MDCT of Cranio-Facial Trauma—*M. Bernstein*; Neck CTA in Trauma—*F. Munera*

IC504.* A Basic Review of Brain Tumors and New Entities According to the WHO Classification—*K. Salzman, W. Pope*

10:00 am–11:30 am

IC507. Imaging of the Post-Treatment Neck with CT and MRI—*C. Glastonbury, D. Williams*

1:00 pm–2:30 pm

IC510.* Imaging of Children and Adults with Epilepsy—*N. Salamon, R. Lee*

NUCLEAR MEDICINE

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the use of nuclear medicine and PET/CT for the assessment of various disorders and for the evaluation and staging of malignant neoplasms.

Goals and Objectives: Upon completion of the nuclear medicine course track, the participant should be able understand the role of PET/CT in a variety of malignancies (thoracic, gastrointestinal, musculoskeletal, breast, head and neck,) and dementia as well as learn new developments in PET/CT and how to optimize protocols. The participant will also learn about several nuclear medicine therapies which are used in clinical practice.

Monday, May 3**7:00 am–8:00 am**

Power Hour: Nuclear Medicine

8:00 am–9:30 am

IC103. PET/CT for Solitary Pulmonary Nodule, Lung Cancer, and After Thermal Ablation—*S. Nayak, H. Agress, D. Yoo*

10:30 am–12:00 noon

IC106. Breast Nuclear Medicine: PEM and PET—*D. Mankoff, G. Mercier*

IC108. PET/CT in Head and Neck Cancer—*R. Subramaniam, E. Rohren*

1:00 pm–2:30 pm

IC112. Optimizing PET/CT Imaging Protocols, PET/CT for Breast Cancer and Dementia—*T. Wong, E. Akin, A. Siegel*

4:00 pm–6:00 pm

SS7. Nuclear Medicine

Tuesday, May 4**8:00 am–9:30 am**

IC205. Nuclear Medicine Therapies for Cancer: Radioimmunotherapy, Micro-spheres Therapy and Radioiodine Therapy—*A. Sheikh, H. Jacene, S. Goetze*

1:00 pm–3:30 pm

Review Course: Nuclear Medicine
PET/CT—*D. Yoo*
Endocrine—*E. Akin*
Gastrointestinal—*H. Jacene*
Pediatrics—*T. Wong*
Skeletal—*C. Rajadhyaksha*

Wednesday, May 5**4:00 pm–5:30 pm**

IC318. Musculoskeletal Tumors and PET Imaging—*M. Murphey, J. Peterson*

Thursday, May 6**12:30 pm–2:00 pm**

IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—*J. Bruzzi, E. Rohren, J. Ko*

3:00 pm–4:30 pm

IC413. Thoracic PET/CT: Interpretation Predicaments and Future Developments—*O. Mawlawi, E. Marom, M. Truong, T. Wong*

Please note that preregistration for educational sessions included in the general registration fee does not guarantee a seat. While we will make every effort to ensure adequate space for each session, seating for some sessions may be limited. It is best to arrive early for the sessions you wish to attend.



SPECIALTY TRACKS

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PEDIATRIC IMAGING

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the evaluation and treatment of diseases of infants, children and adolescents.

Goals and Objectives: Upon completion of the pediatric imaging course track, the participant should be able to safely and effectively incorporate the use of various imaging modalities in the diagnosis and treatment of pediatric patients. In addition, the participant should have gained proficiency in recognizing the imaging features and constructing an imaging differential diagnosis for various diseases and disorders affecting the pediatric populations.

Sunday, May 2

2:30 pm–3:30 pm

- CC. Imaging of the Pediatric Chest: Chest Infection—*S. Westra*
- CC. Imaging of the Pediatric Chest: Mediastinal Nonvascular Masses—*E. Lee*
- CC. Imaging of the Pediatric Chest: Vascular Rings, Slings, Trach Rings—*R. Krishnamurthy*

Monday, May 3

5:30 pm–6:10 pm

- CC. Pediatric Musculoskeletal Imaging: Slipped Capital Femoral Epiphysis and Obesity—*R. Restrepo*
- CC. Pediatric Musculoskeletal Imaging: Imaging in Scoliosis—*G. Khanna*

Tuesday, May 4

7:00 am–10:30 am

- CC. Imaging in Nonaccidental Pediatric Trauma: CNS Injury—*Y. Sato*
- CC. Imaging of Child Abuse: Non-CNS Injury—*K. Applegate*
- CC. Imaging of the Pediatric Abdomen: Pyloric Stenosis and Malrotation—*M. Hernanz-Schulman*
- CC. Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—*K. Applegate*
- CC. Imaging of the Pediatric Abdomen: Abdominal Neoplasms—*M. Siegel*

4:00 pm–6:00 pm

- SS16. Pediatric Imaging

Wednesday, May 5

7:00 am–8:00 am

- Power Hour: Pediatric Imaging

8:00 am–9:30 am

- IC305. Upper Extremity Sports Injuries in Children: State of the Art—*N. Chauvin*; Painful Topics in Pediatric Orthopedics: Review—*M. Dempsey-Robertson*; Pediatric Bone Lesions: Review—*P. Karakas*

10:00 am–11:30 am

- IC309. Cranial Ultrasound: State of the Art—*L. Lowe*; Pediatric Spine Imaging: State of the Art—*N. Kadom*; Pediatric Leukodystrophies: Review—*I. Kim*

1:00 pm–3:30 pm

- Review Course: Pediatric Imaging Chest/Pulmonary—*E. Lee*
- Musculoskeletal—*E. Mann*
- Abdominal—*S. Anupindi*
- Neurology—*D. Rivard*
- Genitourinary—*S. Diperna*

4:00 pm–5:30 pm

- IC320. Pediatric Abdominal Imaging: State of the Art—*R. Goodman*; Intestinal Obstruction in Children: State of the Art—*L. Fenton*; Neonatal Abdominal Emergencies: Review—*J. Reid*

Thursday, May 6

8:00 am–9:30 am

- IC404. Pediatric Large Airway Disease: State of the Art—*E. Lee*; Pediatric Interstitial Lung Disease: State of the Art—*P. Guillerman*; Congenital Lungs: Review—*C. Carrico*

Friday, May 7

1:00 pm–2:30 pm

- IC510. Imaging of Children and Adults with Epilepsy—*N. Salamon, R. Lee*

ULTRASOUND

Who Should Attend: Radiologists, Radiologists, radiologists-in-training and other health professionals with an interest in the application of ultrasound to diagnose abdominal, vascular, obstetric, gynecologic, musculoskeletal, and neurological diseases and disorders in both the adult and pediatric patient.

Goals and Objectives: Upon completion of the ultrasound imaging course track, the participant should be able to incorporate the proper use of ultrasound in the diagnosis and treatment of adult and pediatric patients with diseases or disorders in the pelvis, abdomen, head and neck, breast, musculoskeletal system and vascular system. In addition, the participant should have gained proficiency in recognizing the imaging features of ultrasound and constructing an imaging differential diagnosis for diseases effectively imaged by ultrasound.

Tuesday, May 4

10:00 am–11:30 am

- IC206. MRI and Ultrasound of Elbow Injuries—*J. Jacobson, Z.S. Rosenberg, V. Khoury*

Thursday, May 6

12:30 pm–2:00 pm

- IC412.* Contrast-Enhanced Ultrasound in Radiology—Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—*P. Burns*; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—*S. Wilson*

3:00 pm–4:30 pm

- IC416. Renal Sonography: Renal Lesions Hiding in Plain Sight—*B. Hashimoto*; Duplex and Color Doppler of the Kidneys—*S. Teefey*

Friday, May 7

7:00 am–8:00 am

- Power Hour: Ultrasound

8:00 am–9:30 am

- IC505. Gynecologic Ultrasound: Update on Ultrasound Evaluation of the Endometrium—*U. Hamper*; A Practical Approach to Ultrasound Evaluation of Pelvic Masses—*L. Scutt*

10:00 am–11:30 am

- IC508. Pearls and Pitfalls in Obstetric Ultrasound: First Trimester—*T. Angtuaco*; Second and Third Trimesters Part 1—*L. Romine*; Second and Third Trimesters Part II—*D. Pretorius*

2:00 pm–4:30 pm

Review Course: Ultrasound
 Obstetrics—*B. Hertzberg*
 Gynecology—*O. Baltarowich*
 Abdomen—*U. Hamper*
 Small Part—*D. Rubens*
 Vascular—*L. Scouff*

VASCULAR AND INTERVENTIONAL RADIOLOGY

Who Should Attend: Radiologists, radiologists-in-training and other health professionals with an interest in the application of the radiologic sciences to the evaluation of patients with vascular and nonvascular diseases amenable to treatment through interventional radiology techniques and procedures.

Goals and Objectives: Upon completion of the vascular and interventional radiology course track, the participant should be able to utilize currently available interventional techniques, including abscess drainage, ablation, embolization and pain management techniques, for both vascular and nonvascular indications.

Sunday, May 2

12:10 pm–12:30 pm

CC. Imaging of Aortic Aneurysms: Surgical vs. Endovascular Treatment—*P. Cronin*

3:10 pm–3:30 pm

CC. Imaging of the Pediatric Chest: Vascular Rings, Slings, Trach Rings—*R. Krishnamurthy*

4:30 pm–5:00 pm

CC. Stroke: Treatment of Acute Stroke—*D. Hallam*

5:30 pm–6:00 pm

CC. Low Back Pain: How Do You Treat Low Back Pain—*G. Zoarski*

Monday, May 3

10:00 am–10:30 am

CC. Nontraumatic Acute Intracranial Hemorrhage: Treatment of Cerebral AVM—*B. Ghodke*

8:00 am–9:30 am

IC105. Thromboembolic Axis of Evil: DVT, PE and IVC Filters—*T. Burdick, M. Bittles, K. Daly*

10:30 am–12:00 noon

IC110. Pulmonary Interventions: AVMs and Bronchial Artery Embolization; Diagnosis—*A. Funaki*; Pulmonary Embolization—*C. Burke*; Bronchial Embolization—*B. Funaki*

1:00 pm–2:30 pm

SS5. Vascular and Interventional Radiology

4:00 pm–5:30 pm

IC117. Interventional Radiology for the Diagnostic Radiologist—*C. Ray, A. Nemcek, K. Kondo*

Tuesday, May 4

7:00 am–8:00 am

Power Hour: Vascular and Interventional Radiology

10:00 am–11:30 am

SS11. Vascular and Interventional Radiology

1:00 pm–2:30 pm

SS14. Vascular and Interventional Radiology

4:00 pm–5:30 pm

IC214. Interventional Radiology Oncology—*D. Madoff*

Wednesday, May 5

8:00 am–9:30 am

IC304. Cerebral Venous Imaging: Current Techniques and Diagnostic Pitfalls—*J. Leach, T. Abruzzo*

IC306. Aortic Stent Grafts: Imaging and Intervention—Thoracic Stent Grafts, Overview of Devices and Cases—*R. Hieb*; Planning Abdominal Aortic Grafts—*M. Neisen*; Secondary Interventions: When and How—*F. Facchini*

10:00 am–11:30 am

IC310. Vertebroplasty: The Beginner's Course—*S. Tutton, J. Hirsch, J. Lippert*

1:00 pm–2:30 pm

IC314. Radiation Safety (Vascular and Interventional Radiology)—*B. Dixon*

4:00 pm–6:30 pm

Review Course: Vascular and Interventional Radiology

Arterial Diagnosis—*B. Funaki*

Arterial Therapy—*S. Zangan*

Venous Interventions—*C. Ray*

Nonvascular Interventions—*M.G. Knuttinen*

Interventional Oncology—*A. Nemcek*

Thursday, May 6

8:00 am–9:30 am

IC405. Pharmacology in Interventional Radiology: Sedation and Analgesia Primer, Anti-Coagulation and Anti-Platelet Therapy and Antibiotics, etc.—*H. Ferral, P. Gamboa, J. Lopera*

12:30 pm–2:00 pm

IC411. Noninvasive Vascular Neuroimaging: Ultrasound, CT Angiography and MR Angiography—*J. Gemmete, D. Kim, B. Huang*

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American Roentgen Ray Society

1891 Preston White Drive
Reston, VA 20191

Future Meeting Dates

- May 1-6, 2011, at the Hyatt Regency Chicago, Chicago, IL
 - April 29-May 4, 2012, at the Vancouver Convention and Exhibition Centre Vancouver, BC, Canada
 - April 14-April 19, 2013 at the Marriott Wardman Park Hotel, Washington, DC
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