Course Enrollment
"For 100 years, RSNA has set the standard of excellence. As we celebrate the past, it's important to look to the future. Our annual meeting is the place to witness the pinnacle of medical imaging science and education."

N. Reed Dunnick, MD
2014 RSNA President
THANK YOU FOR REGISTERING FOR RSNA 2014

Educational courses are just one facet of the RSNA 2014 experience. Use this brochure to map out your week.

▶ Check RSNA.org/AnnualMeeting often for the latest updates to our program.

**Reserve your spot early for ticketed courses**
Refresher courses, informatics courses, multisession courses, SAMs, and other offerings require tickets. Reserve your seat today!

**Save time for scientific sessions, education exhibits, and digital posters**
As the meeting approaches, we’ll unveil our selection of digital posters, scientific sessions, and education exhibits in our online Meeting Program at RSNA.org/MeetingProgram.

**Don't miss featured presenters and Plenary Sessions**
Find highlights of our program and a preview of our Plenary Session lecturers at RSNA.org/MeetingProgram.

**Plan to explore the Technical Exhibits**
Keep your finger on the pulse of the latest technology by visiting RSNA’s technical exhibit halls.

**Join in all the festivities of our Centennial Celebration**
One hundred years is worth celebrating. We have a variety of special activities planned for our community. Don’t forget to make time for special events and features to help you make the most of your time at RSNA 2014.

**Add more to your meeting experience so you don’t miss a thing**
The Virtual Meeting allows you to access live-streamed and on-demand sessions, scientific presentations, and education exhibits. Learn more at RSNA.org/Virtual.

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**IMPORTANT DATES**

**JULY 9**
Course enrollment opens 10:30 AM CT

**NOVEMBER 7**
Final housing deadline 5 PM CT

**NOVEMBER 26**
Deadline to guarantee a seat for all ticketed courses

**NOVEMBER 30 – DECEMBER 5**
100th Scientific Assembly and Annual Meeting
The Celebration of a Century

This is the most exciting year yet to attend the RSNA annual meeting. We have a variety of activities planned to celebrate 100 years of the annual meeting with you, our community.

Technical Exhibits

Grand Opening

Sunday, November 30, 11:00 AM
The technical exhibits will open with a ceremony where RSNA leaders and industry partners will celebrate the technology and innovation that changed the world of radiology.

Sip & Savor Social

Wednesday, December 3, 5:00 PM – 7:00 PM
Skyline Ballroom, 3rd Floor
McCormick Place, West Building
You’re invited to celebrate RSNA’s 100th annual meeting in the Skyline Ballroom with the RSNA community. Enjoy drinks, entertainment, and tastings by some of Chicago’s top restaurants. Don’t miss the celebration of a century. You can add tickets to your registration for only $40 per person. (Must be 16 or older to be admitted to this event.)

Centennial Showcase

Explore an onsite experience that lets you see, hear, and discover the advancements that shaped radiology. Located in Exhibit Hall D.

- **Our Milestones**
  See the history of RSNA and radiology evolve through a timeline highlighting key dates in medical imaging.

- **Centennial Gallery**
  Community, Education, Research, Innovation, and Patient Care: These are the principles that RSNA has championed throughout its 100 years. Discover how RSNA has been a forum for discoveries, sharing ideas, and vital relationships. You will also get a first-hand look at historical radiological equipment to see how far the specialty has evolved over the last century.

- **Cases of the Century**
  Test yourself by diagnosing vintage images from years past.

- **Roentgen’s Welcome**
  Visitors will be welcomed to the Centennial Showcase by Wilhelm Roentgen, a virtual presenter that will share an account of the events that sparked a specialty—and how RSNA changed the way we practice medicine.

- **Art & Science**
  Our dedicated gallery will feature a remarkable compilation of cutting-edge and artistic medical images.

- **Memory Book**
  Leave your mark on history by sharing your favorite RSNA memory or your predictions for the future of the specialty in the Memory Book. Read other’s stories and share your own.
Put Your Finger on the Pulse of the Latest Technology

RSNA's technical exhibits are the best place to stay abreast of industry developments—and to see and touch new products, equipment, services, and software for your practice or institution.

➤ Visit nearly 700 exhibitors showcasing products for a wide range of subspecialties

➤ Have a first look at the latest product launches that companies wait all year to unveil

➤ Speak with industry experts and get hands-on help and answers from experienced personnel

MAKE TIME FOR THESE EXHIBIT HIGHLIGHTS:

IHE Image Sharing Demonstration
See how software and systems can communicate seamlessly to create a better patient experience.

Exhibitor Product Theater
Attend live product demonstrations to see benefits and features first hand.

Vendor Workshop
Get hands-on tutorials of vendor software systems.

TECHNICAL EXHIBITS HOURS

SUNDAY, NOVEMBER 30
11:00 AM – 5:00 PM

MONDAY, DECEMBER 1 – WEDNESDAY, DECEMBER 3
10:00 AM – 5:00 PM

THURSDAY, DECEMBER 4
10:00 AM – 2:00 PM
BOOK NOW, PAY LATER!
Secure Your Hotel Today

RSNA has contracted low rates at 84 hotels in the heart of Chicago.

- Take advantage of flexible booking terms and exceptional customer service.
- Free shuttle bus service between all 84 hotels and McCormick Place.

YOU CAN ALSO REGISTER FOR:

RSNA TOURS AND EVENTS offer you exciting ways to experience Chicago during your stay for RSNA 2014. Enjoy the sounds of music, view architectural wonders, explore unique neighborhoods, learn a new cooking technique, and more.

For a full listing of tours and events, go to RSNA.org/Register and download the Tours & Events brochure.

- Go to RSNA.org/Register to add tours and events, as well as the 5K Fun Run, Sip & Savor Social, the Virtual Meeting, and to purchase Bistro RSNA tickets in advance.
EXPERIENCE

RSNA 2014 HIGHLIGHTS ON YOUR OWN TIME

With the vast offerings RSNA 2014 provides, it’s impossible to see it all at McCormick Place. Add the Virtual Meeting to your registration to access selected offerings, both live and on-demand.

The Virtual Meeting is available during the meeting and on-demand until December 19 at 4 PM CST. Earn CME for select live sessions only. No CME credits are awarded for viewing on-demand sessions.

Live sessions available for **AMA PRA Category 1 Credit**.

**NEW!** Live sessions earn Category A and A+ credit for technologists.

Register for access to:
- Digital Posters
- Cases of the Day – submit your diagnosis each day until midnight CST
- Refresher Courses

**Challenging “Image Interpretation” session**
- **Exhibitor Product Theater sessions**
- **“Hot Topics” and “Special Interest” sessions**

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**Bistro RSNA**

**Sunday, November 30 – Wednesday, December 3**

11:00 AM – 2:30 PM
Technical Exhibit Hall A & Hall B

With an extensive gourmet menu and ample seating, Bistro RSNA is an excellent option to sit down to a comfortable lunch and network with colleagues. Purchase your ticket in advance for only $20 per day ($24.00 on-site). Visit [BistroRSNA.com](http://BistroRSNA.com) for more information.

**JOIN THE 5k Fun Run TO FUEL CRITICAL RESEARCH**

**Tuesday, December 2, 6:30 AM**
Arvey Field, South Grant Park, Chicago

Join us for the RSNA 2014 5k Fun Run and help the RSNA R&E Foundation keep our specialty at the forefront of healthcare. Whether you run or walk, enjoy an outing for a good cause with your colleagues along Chicago’s beautiful Lake Michigan shore. Your fully tax-deductible donation will benefit the RSNA R&E Foundation. Participants will receive a commemorative t-shirt, while supplies last.

**Please note, in case of inclement weather, the Fun Run may be cancelled. All Fun Run fees are non-refundable and non-transferable.**
Guide to Educational Offerings

At RSNA 2014, radiologists, radiation oncologists, and medical imaging professionals from around the world will convene and discuss the latest in radiologic innovations. Refresher courses, scientific sessions, plenary sessions, and education exhibits are available for continuing medical education.

**Learning Objectives**
At the conclusion of the RSNA Scientific Assembly and Annual Meeting, participants will be able to:

- Access the results of new research and assess their potential applications to clinical practice.
- Improve basic knowledge and skills relevant to clinical practice.
- Practice new techniques.
- Assess the potential of technological innovations and advances to enhance clinical practice and problem solving.
- Apply principles of critical thinking to ideas from experts and peers in the radiologic sciences.

**Continuing Education Credits Available**
The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 93.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

You will evaluate CME courses and claim your credit electronically, so you can print your certificate onsite at the meeting and walk away with certificate in hand. As the meeting approaches, you will receive information on how to claim CME instantly from the courses you take.

The Commission on Accreditation of Medical Physics Education Programs (CAMPEP) has approved the direct transfer of AMA PRA Category 1 Credit™ to Medical Physics Education Programs (MPCEC) on a credit-for-credit basis for medical physicists.

RSNA is an ARRT®-approved Recognized Continuing Education Evaluation Mechanism Plus (RCEEM+) and will provide Category A+/A continuing education credits for radiologic technologists and radiologist assistants.

**International attendees:**
CME credits may be transferable. See below for details.

- **Australia and New Zealand:** RSNA is an authorized CPD provider.
- **Canada:** AMA PRA Category 1 Credits™ can be converted to Royal College MOC credits.
- **Mexico:** All AMA PRA Category 1 Credits™ are transferable.
- **Europe:** Due to an agreement of mutual recognition the UEMS-European Accreditation Council will convert AMA PRA Category 1 Credits™ to EACCME European CME Credits (ECMECs). For more information, contact the European Union of Medical Specialists (UEMS) at info@uems.net or visit UEMS.net or EACCME.eu.
- **Worldwide:** CME claimed at RSNA 2014 may be transferable. Contact the CME governing body in your home country for details.

**World-Renowned Presenters and Lecturers**

<table>
<thead>
<tr>
<th>Special Lecturer</th>
<th>RSNA President’s Address</th>
<th>Annual Oration in Diagnostic Radiology</th>
<th>Annual Oration in Radiation Oncology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francis Collins, MD, PhD</td>
<td>N. Reed Dunnick, MD</td>
<td>David C. Levin, MD</td>
<td>Lawrence B. Marks, MD</td>
</tr>
<tr>
<td><strong>New Horizons Lecture</strong></td>
<td>Jonathan M. Rubin, MD, PhD</td>
<td><strong>Image Interpretation Session</strong></td>
<td><strong>RSNA / AAPM Symposium</strong></td>
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<td>Jeffrey C. Weinreb, MD, Moderator</td>
<td>Paul E. Kinahan, PhD, Moderator</td>
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<td>Carol H. Lee, MD</td>
<td>Robert J. Gillies, PhD</td>
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<td>Theodore T. Miller, MD</td>
<td>Hedvig Hricak, MD, PhD</td>
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<td></td>
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<td>Reginald F. Munden, MD, DMD</td>
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</table>
REGISTER FOR COURSES ONLINE AT RSNA.ORG/REGISTER

Save time by enrolling in your courses online. You can also view the full learning objectives & CME content codes for each course. Click "Already Registered" and have your RSNA membership or registrant ID ready (also found on the mailing panel of this brochure). You may also mail or fax the course enrollment form.

Note: Attendance at each session is limited to the room seating capacity. Online enrollment occurs instantly, while faxed or mailed forms are processed in the order of receipt. Credits vary based on length of course.

Non-ticketed Offerings

Scientific Sessions
Never-before-seen discoveries are unveiled at the RSNA annual meeting. More than 200 sessions feature over 1,500 scientific oral presentations in 16 subspecialties. See pages 29-30 for a selection of topics.

Education Exhibits / Digital Posters
Thousands of education exhibits and scientific posters are available for viewing in the Learning Center, covering 16 subspecialties. During the lunch hour, authors will be present for Poster Discussions.

Plenary Sessions
Open to all registrants and scheduled throughout the week, these sessions are highlights of the RSNA annual meeting. Keynote addresses, annual orations, interpretation sessions, and special symposia are offered.

Quantitative Imaging Reading Room
See a showcase of products that integrate quantitative analysis into the image interpretation process in the Learning Center. Exhibits will feature informational posters, computer-based demonstrations, and “Meet the Experts” presentations throughout the week. The purpose of these exhibits is educational in nature and is not designed for product promotion.

Special Interest/Controversies/Hot Topics
These sessions address radiology-related topics that are late-breaking, particularly controversial, or programs the RSNA Board of Directors deemed of particular importance. High levels of audience interest and opinion are expected, and audience viewpoints and questions are encouraged. Don’t miss these dynamic, thought-provoking sessions. Find them in the Special Courses listings marked in green in the daily listings.

Ticketed Offerings (continued)

Refresher Courses (RC)
Refresher courses cover both traditional and cutting-edge topics in a subspecialty area. RSNA offers more than 300 refresher courses to enhance your knowledge. Refresher courses are listed in orange in the daily listings and can be found according to subspecialty indicated by the last two digits in the course number.

Multisession Courses (MS)
These courses are scheduled in time blocks, ranging from several hours to several days, to allow intensive study of various topics. You can participate in one or more of these sessions each day. Find them marked in blue with the “MS” prefix in the daily listings.

Ticketed Offerings

Guarantee Your Seat
All ticketed courses must be confirmed prior to November 27 to guarantee a seat. RSNA ticketed courses fill up fast, so ensure you get the courses you need by enrolling on page 31 or at RSNA.ORG/Register. There is no onsite course ticketing. Registrants without tickets will be allowed entrance into a course after all ticketed registrants have been seated.
**Ticketed Offerings (continued)**

**Series Courses (VS)**

Gain “take-home” knowledge to apply immediately to your practice in these extended courses, which combine invited lectures with scientific presentations. They are offered in a variety of subspecialties. Find time blocked in purple on the daily calendars and listed in purple in the daily listings.

- **Breast** . . . . . . . . . . . VSBR
- **Cardiac** . . . . . . . . . . . VSCA
- **Chest** . . . . . . . . . . . . . VSCH
- **Emergency Radiology** . . . . . . . . VSER
- **Gastrointestinal** . . . . . . . . VSIG
- **Genitourinary** . . . . . . . . VSGU
- **Radiology Informatics** . . . . VSIN
- **Musculoskeletal** . . . . . . . . VSMK
- **Interventional** . . . . . . . . VSIR
- **Interventional Oncology** . . . . . VSIO
- **Musculoskeletal** . . . . . . . . VSMK
- **Nuclear Medicine** . . . . . . . . VSNM
- **Pediatric** . . . . . . . . . . . VSPD
- **Vascular Imaging** . . . . . . . VSVI
- **VSCH**
- **VSMK**
- **VSNM**
- **VSPD**
- **VSVI**

**Self-assessment Modules (SAMs)**

The American Board of Radiology (ABR) granted approval to RSNA for SAM Deemed Status. This allows RSNA to develop and implement, without prior ABR review, enduring SAMs and in-person (“live”) SAMs that satisfy ABR Part II MOC requirements. Select RSNA courses have been approved for SAMs. Each RSNA in-person SAM is available for up to 1.50 SAM credits and 1.50 AMA PRA Category 1 Credits™. The RSNA annual meeting in-person SAMs are accredited by the MOC program of the Royal College of Physicians and Surgeons of Canada and approved by the Canadian Association of Radiologists.

To help ensure your seat in a SAM-approved course, register and enroll early at RSNA.org/Register. SAM-approved courses are marked with 🟢 in the course listings.

**Fees:** RSNA members, $0; non-members, $50 per SAM.

**ARLM Certificate of Achievement**

The Academy of Radiology Leadership and Management (ARLM) provides medical imaging professionals an opportunity to earn an ARLM Certificate of Achievement by earning 50 education credits across a spectrum of core learning domains, including Financial Skills, Human Resources, Professionalism, Legal/Contracting, Academic Mission, and General Management. ARLM approved courses are marked with 🟢 in the course listings.

**Special Courses (continued)**

**Canada Presents**

This session by the Canadian Association of Radiologists will demonstrate how discoveries in cardiovascular imaging are making a difference for patients. This session will include research presentations in multiple modalities, case studies, and a panel discussion by Canadian experts in cardiovascular radiology.

**Korea Presents**

This session by the Korean Society of Radiology will highlight the latest in cardiovascular research. Presenters will explore imaging assessment of cardiovascular risk factors in stroke, coronary CT screening angiography, and a multicenter trial comparing CT stress perfusion imaging to fractional flow reserve imaging for assessing ischemic heart disease.

**Mock Jury Trial**

Witness firsthand the process by which a medical malpractice trial is conducted and explore the issues surrounding a radiologist’s responsibility when observing incidentalomas. Watch how a judge officiates over a case, observe the techniques used by the plaintiff’s attorneys and defense attorneys to present their respective clients’ cases, and stay tuned for the verdict.

**Hospital Administrators Symposium (SPHA)**

Designed for hospital administrators and healthcare executives, this session will cover relevant topics in the ever-changing world of healthcare. Explore issues for the coming decade, including radiology utilization management, mergers and acquisitions, issues and perspectives on teleradiology, new roles of radiologists, and the payer perspective.

**RSNA Diagnosis Live™ (SPDL) and Interactive Game Refresher Courses**

These exciting expert-moderated sessions feature a series of interactive case studies to challenge radiologists’ diagnostic skills. Submit and discuss your responses with your colleagues in a fast-paced game format.

**NIH Grantsmanship Workshop (SPGW)**

This workshop covers grantwriting techniques, from concept development to submission and the NIH review process. Speakers will address basic applications, K awards, and the NIH grant application and review processes. The workshop includes a mock study section. $35.

**Study Section Reviewers Workshop (SPRW)**

This workshop, offered in collaboration with the Academy for Radiology Research, is designed to train radiologists and NIH or similar imaging scientists on how to serve as an expert peer reviewer on grant study sections. The workshop includes a mock study section. $35.

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**EARLY BIRD SHUTTLE SERVICE AVAILABLE**

Sunrise inbound shuttle service is provided Sunday, November 30 through Friday December 5, 6:30 AM – 6:45 AM.

Please see hotel lobby sign for exact departure time.
### Saturday, November 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
</tr>
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<tbody>
<tr>
<td>12:00 PM</td>
<td>AAPM/RSNA Physics Tutorial for Residents SPPH01</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>NIH Grantsmanship Workshop SPGW01</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>RSNA/ARR Study Section Reviewers Workshop SPPR01</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>AAPM/RSNA Tutorial on Equipment Selection SPPH02</td>
</tr>
</tbody>
</table>

**Program Key**
- Multisession Courses
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- SAM
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

---

### Add top science and education to your library

BE SURE TO PICK UP YOUR COPY OF THE RSNA SCAN: 2013 YEAR IN REVIEW

90+ groundbreaking RSNA offerings on a convenient USB card

**Includes:**
- Most challenging Cases of the Day, award-winning, and most viewed digital posters, popular refresher courses
- and most read *Radiology* and *Radiographics* articles.

---

### Take home great gifts for family and staff

- Purchase high-quality clothing, accessories, and souvenirs.

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### Visit the RSNA Store

Located in RSNA Services, Lakeside Center

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**Sunday, November 30**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>Plenary Session: Opening Session</td>
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<tr>
<td>9:00 AM</td>
<td>Oncodiagnosis Panel</td>
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<tr>
<td>9:30 AM</td>
<td>Scientific Sessions</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Data Management and Analysis with Excel for Research and for Practicing Quality Improvement—A Hands-On Tutorial</td>
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<tr>
<td>10:30 AM</td>
<td>Mock Jury Trial</td>
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<tr>
<td>11:00 AM</td>
<td>Technical Exhibits Grand Opening</td>
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<tr>
<td>12:30 PM</td>
<td>Poster Discussions</td>
</tr>
</tbody>
</table>

**Program Key**
- Multisession Courses
- Plenary Sessions
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- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

**Learning Center Hours**
- Sunday: 8:00 AM – 5:00 PM

**Technical Exhibits Hours**
- Sunday: 11:00 AM – 5:00 PM

**Sunday Highlights**
- PS10: President’s Address and Special Lecture
- PS12: Image Interpretation Session
- VSIO11: Interventional Oncology Series
- SPMT11: Mock Jury Trial: Incidenteloma

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**RCB11** Mobile Computing for Decision Support and Learning While You Work (Hands-on)
**RCC11** Fundamentals of 3D Printing
**VSPD11** Scientific Sessions

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**RC104** Sports Injuries in the Chest and Abdominal Wall: A Core Curriculum of the Body’s Core
**RC105** Brain Aneurysms
**RC106** Head and Neck Top Five: Important Anatomy, Missed Diagnoses and Imaging Pearls
**RC107** GYN and Pelvic Floor 2014: Latest Imaging Guidelines and Angles Simplified!
**RC108** Contemporary Topics in Emergency Radiology: Update Your Knowledge (An Interactive Session)
**RC109** Gastrointestinal: Imaging the Obese Patient (An Interactive Session)
**RC110** Liver and Gallbladder Ultrasound including Elastography and Contrast
**RC111** Improving PET Interpretation (An Interactive Session)
RC112  Advanced Vascular Imaging Techniques and Applications (An Interactive Session)

RC114  Interactive Game: Interventional

RC115  Breast Imaging: State of the Union

RC116  Imaging in Therapeutic and Diagnostic Agent Development

RC117  Molecular Imaging Beyond PET: MRI and Ultrasound/Photoacoustic Molecular Imaging

RC118  Global Cancer Imaging—Insights from Overseas

RC120  Molecular and Functional Imaging/Surrogate Markers in Radiation Oncology

RC121  Medical Physics 2.0: Magnetic Resonance Imaging

RC122  Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Imaging Moving Targets

RC123  Minicourse: Current Topics in Medical Physics—Diagnostic Dosimetry Review: Current Technologies and How We Use Them

RC124  The Role of Advanced Imaging in Unraveling the Secrets of Ancient Art and Artifacts

RC125  Quantitative Imaging: Quantitative Imaging in Ultrasound

RC127  Changing the Culture of Radiology: How to Thrive in Turbulent Times

RC129  Abdominal MRI Technique Update (An Interactive Session)

RC132  Develop Your Radiology Financial Insight: Fundamental Principles You Should Know About Business

RC150  MR Imaging-guided Breast Biopsy (Hands-on Workshop)

RC151  Modern Non-invasive Imaging of Cholestatic Liver Diseases (How-to Workshop)

RC152  Techniques for Interventional Sonography and Thermal Ablation (Hands-on Workshop)

RC153  Advances in Radiology Decision Support

RC154  Getting It Right: Informatics Tools for Imaging 3.0

RCA12  National Library of Medicine: Free Online Databases: Images and More (Hands-on)

RCB12  Optimizing PowerPoint Slides (Hands-on)

RCC12  The Use of Business Analytics for Improving Radiology Operations, Quality, and Clinical Performance (In Association with the Society for Imaging Informatics in Medicine)

VSPD12  Pediatric Series: Fetal/Neonatal
Monday, December 1

7:00 AM – 12:30 PM

**Program Key**
- Multisession Courses
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- SAM
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

**Learning Center Hours**
Monday: 7:00 AM – 7:30 PM

**Technical Exhibits Hours**
Monday: 10:00 AM – 5:00 PM

**Program**

**8:30 AM – 10:00 AM**
- **SPS21**: Regulations and Legislation That Effect Health Care Access and Practice (An Interactive Session)
- **MSAS21**: Case-based Review of Magnetic Resonance (An Interactive Session)
- **RC201**: Lung Cancer Screening: Structured Reporting, Management and Practice Metrics (LUNGRADS)
- **RC202**: Milestone Implementation: Practical Lessons Learned at 3 Academic Institutions

**10:30 AM – 12:00 PM**
- **RC206**: Skull Base and Nerves
- **RC210**: First Trimester Ultrasound (An Interactive Session)
- **RC212**: Peripheral Artery Disease (PAD)
- **RC216**: Communicating Effectively with Your Referring Physicians (Sponsored by the RSNA Public Information Committee)
- **RC217**: Elastography—Imaging Tissue Stiffness: Approaches and Applications
- **RC218**: Imaging Tumor Response: Old and New Challenges
- **RC220**: Imaging Evaluation of Post-Radiation Therapy Normal Tissue Effects

**MONDAY HIGHLIGHTS**
- **SPSC20, SPSH20**: Controversy/Hot Topic Sessions
- **PS20**: New Horizons Lecture: Future of Ultrasound
- **SPCP21**: Korea Presents: Exploring Evidence in Cardiovascular Imaging
<table>
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<th>Time</th>
<th>Course Type</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>1:00 PM</td>
<td>Scientific Sessions</td>
<td>SPS21</td>
<td>Development of a Radiation Oncology Image Registration Protocol (An Interactive Session)</td>
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<tr>
<td>1:30 PM</td>
<td>Scientific Sessions</td>
<td>SPS22</td>
<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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<td>2:00 PM</td>
<td>Scientific Sessions</td>
<td>SPS23</td>
<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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<td>3:30 PM</td>
<td>Scientific Sessions</td>
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<td>4:00 PM</td>
<td>Scientific Sessions</td>
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<td>Scientific Sessions</td>
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<td>6:00 PM</td>
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<td>SPS31</td>
<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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<td>Scientific Sessions</td>
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<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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<tr>
<td>9:00 AM</td>
<td>Scientific Sessions</td>
<td>SPS33</td>
<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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<td>Analysis of CT Image Registration Techniques—Image Registration</td>
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**RSNA 2014 Course Enrollment**

**RC221** Medical Physics 2.0: Ultrasonography
**RC222** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Image Registration
**RC223** Minicourse: Recording and Reporting Radiation Dose: National and International Perspectives and Activities (An Interactive Session)
**RC224** Whole Body MR
**RC225** Quantitative Imaging: Quantitative Imaging in FDG-PET
**RC227** The Future of Radiology Payments: Can Analytics Help Radiologists Regain Control?
**RC229** Increasing Your Gynecological MRI Referral Base: Reaching Out to the Gynecologists (An Interactive Session)
**RC231** Master Class in Musculoskeletal Ultrasound (How-to Workshop)
**RC232** Change Management in Radiology
**RC235** Abdominal Dual Energy CT in Practice (How-to Workshop)
**RC251** US-guided Interventional Breast Procedures (Hands-on)
**RC252** Data Management and Analysis with Excel for Research and for Practicing Quality Improvement—A Hands-On Tutorial
**RC253** Creating, Storing, and Sharing Teaching Files Using RSNA’s MIRC® (Hands-on)
**RC254** Leveraging Your Data: Informatics Approaches and Solutions to Improve Imaging Care Delivery

**RC201** Plenary Session
**RC202** Multisession Courses
**RC203** Refresher/Informatics Courses
**RC204** Series Course

**VSBR21** Breast Series: MR Imaging
**VSCA21** Cardiac Series: Transcatheter Aortic Valve Replacement (TAVR)
**VSER21** Emergency Radiology Series: Evidence-based Imaging in Emergency Radiology—What Is the Evidence?
**VSGI21** Gastrointestinal Series: Imaging of the Cirrhotic Patient

**VSGU21** Genitourinary Series: Prostate MR 2014: Current Role in Staging and Surveillance and Intervention
**VSNR21** Neuroradiology Series: Spine
**VSPD21** Pediatric Series: MSK

**VSIN21** Radiation Informatics Series: Mobile Computing Devices
**VSIR21** Interventional Series: Embolotherapy
**VSMK21** Musculoskeletal Series: Elbow, Hand and Wrist Imaging
**VSNM21** Nuclear Medicine Series: Assessment of Cancer Treatment Response: Updates

**RCA21** Master Class in Musculoskeletal Ultrasound (How-to Workshop)
**RCA22** Case-based Review of Magnetic Resonance Imaging (An Interactive Session)
**RCA23** Refresher/Informatics Courses
**RCA24** Refresher/Informatics Courses
**RCA25** Refresher/Informatics Courses

**MCCM21** Interventional Stroke Treatment: Practical Techniques and Protocols (An Interactive Session)
**MSCM22** Case-based Review of Magnetic Resonance Imaging (An Interactive Session)
Monday, December 1
10:30 AM – 12:00 PM

Exploring Evidence in Cardiovascular Imaging
Learn about Korean breakthroughs in cardiovascular imaging.

Special Recognition for Korean Attendees
Receive a special ribbon for your badge at this session with opening remarks by RSNA President, N. Reed Dunnick, M.D.

Featured throughout the week:

› Navigating RSNA 2014
  Learn tips for getting around the meeting from your Korean colleagues at RSNA’s Global Connection booth.

› Korean Society of Radiology (KSR)
  Visit the KSR booth #1118 to learn about the radiology community in Korea.

For more information about Korea Presents at RSNA 2014, visit RSNA.org/KoreaPresents
Monday, December 1 [continued]

MSMI22  Molecular Imaging Symposium: Radiogenomics: Linking Imaging to the Future—How to Prepare for the Radiogenomic Revolution

MSRO22  BOOST: Lung—Integrated Science and Practice (ISP) Session

MSRO25  BOOST: Gastrointestinal—Integrated Science and Practice (ISP) Session

RCA22  Correlating Imaging with Human Genomics (Hands-on)

RCB22  Creating and Delivering Online and Mobile Education Content: From Online Courses to Interactive iBooks (Hands-on)

RCC22  Monitoring Radiation Exposure: Standards, Tools and IHE REM

SPCP21  Korea Presents: Exploring Evidence in Cardiovascular Imaging

10:30 AM – 12:15 PM

MSMC22  Cardiac CT Mentored Case Review: Part II (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)

12:30 PM – 2:00 PM

RCA23  Slicer: 3D Interactive Visualization of DICOM Images for Radiology Applications (Hands-on)

RCB23  3D Printing (Hands-on)

RCC23  Next Generation Infrastructure for Medical Imaging (In Association with the Society for Imaging Informatics in Medicine)

12:15 PM – 1:15 PM

Poster Discussions AMA PRA Category 1 Credit™

1:30 PM – 2:45 PM

PS20  Monday Plenary Session; New Horizons Lecture: Future of Ultrasound

SPPH21  AAPM/RSNA Basic Physics Lecture for the Radiologic Technologist: Radiography: Getting the Information We Need and Doing It Efficiently (An Interactive Session)

1:30 PM – 3:00 PM

MSAS23  Unsolvable Dilemmas in a Digital World: Improving Radiologist and Technologist Communication (An Interactive Session) (Sponsored by the Associated Sciences Consortium)

MSCT21  Case-based Review of Thoracic Radiology (An Interactive Session)

MSMC23  Cardiac CT Mentored Case Review: Part III (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)

MSMI23  Molecular Imaging Symposium: Cellular and Microenvironment Imaging

1:30 PM – 5:45 PM

SPPH22  Physics Symposium: Quality and Safety in Radiotherapy: Learning the New Approaches in TG-100 and Beyond

1:30 PM – 6:00 PM

VSIO21  Interventional Oncology Series: Hepatocellular Carcinoma

2:30 PM – 4:00 PM

RCA24  National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)

RCB24  Using RSNA Clinical Trial Processing (CTP) Software for Deidentification, Clinical Trials and Research Applications (Hands-on)

RCC24  IHE Clinical Solutions for Interoperability—Imaging and Beyond: IHE and HIE does the Order Matter?

3:00 PM – 4:00 PM

Scientific Sessions (See pages 29-30)

3:00 PM – 4:15 PM

MSRO23  BOOST: Lung—Case-based Review (An Interactive Session)

MSRO26  BOOST: Gastrointestinal—Case-based Review (An Interactive Session)

3:00 PM – 5:30 PM

SPEP21  Estate Planning Today for a Better Tomorrow (No CME)

3:30 PM – 5:00 PM

MSAS24  A Systematic Approach to Minimizing Radiation Dose (An Interactive Session) (Sponsored by the Associated Sciences Consortium)

MSCT22  Case-based Review of Thoracic Radiology (An Interactive Session)

MSMI24  Molecular Imaging Symposium: Molecular Brain Imaging: From Research to Clinical Applications

3:30 PM – 6:00 PM

MSMC24  Cardiac CT Mentored Case Review: Part IV (In Conjunction with the North American Society for Cardiac Imaging) (An Interactive Session)

4:30 PM – 6:00 PM

RCA24  National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)

RCC25  Precision Medicine through Image Phenotyping

SPDL21  RSNA Diagnosis Live™: Chest/Abdomen/Neuroradiology

SPSI21  Special Interest Session: Radiology and Pathology Diagnostics: Is It Time to Integrate?

SPSI22  Special Interest Session: Optimizing Quantitative Imaging Biomarkers for Practice: QIBA Examples from CT, MR, PET and US

SPSI23  Special Interest Session: Image Wisely

4:45 PM – 6:00 PM

MSRO29  BOOST: Gastrointestinal—Hands-on Contouring
Tuesday, December 2

7:00 AM 7:30 AM 8:00 AM 8:30 AM 9:00 AM 9:30 AM 10:00 AM 10:30 AM 11:00 AM 11:30 AM 12:00 PM 12:30 PM

**Program Key**
- Special Courses SPSC30, SPSH30, SPDL31
- Refresher/Informatics Courses RC300s, RCA31, RCB31, RCC31
- Multisession Courses MSAS31, MSCC31, MSES31, MSQI31, MSR031, MSR034
- Series Courses VSBR31, VSCH31, VSGI31, VSIR31, VSMK31, VSNM31, VSPD31, VSPA31
- Scientific Sessions
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

**Learning Center Hours**
Tuesday: 7:00 AM – 7:30 PM

**Technical Exhibits Hours**
Tuesday: 10:00 AM – 5:00 PM

**Refresher/Informatics Courses**
RC300s, RCA31, RCB31, RCC31

**Multisession Courses**
MSAS31, MSCC31, MSES31, MSQI31, MSR031, MSR034

**Series Courses**
VSBR31, VSCH31, VSGI31, VSIR31, VSMK31, VSNM31, VSPD31, VSPA31

**Scientific Sessions**
RC300s, RCA31, RCB31, RCC31

**Special Course**
SPCP31

**6:30 AM**
RSNA 2014 5k Fun Run (see page 5)

**7:15 AM – 8:15 AM**
- **SPSC30** Controversy Session: Head and Neck Modality Roulette: What’s the Best Imaging Option?
- **SPSH30** Hot Topic Session: Advances in Musculoskeletal Tumor Ablation
- **SPDL31** RSNA Diagnosis Live™: Body, Cardiac, MSK, Neuro, ENT Po Pourree

**8:30 AM – 10:00 AM**
- **MSAS31** Managing Health Care: Imaging Utilization—An International Perspective (An Interactive Session) (Sponsored by the Associated Sciences Consortium)
- **MSCC31** Case-based Review of Nuclear Medicine: PET/CT Workshop—Head and Neck Cancers (In Conjunction with SNMMI) (An Interactive Session)
- **MSE31** Essentials of Non-interperative Skills
- **MSQI31** Quality Improvement in Your Practice: Fundamentals of Lean—What, How, and Why Now?
- **MSR031** BOOST: Head and Neck—Oncology Anatomy (An Interactive Session)
- **MSR034** BOOST: Gynecology—Oncology Anatomy (An Interactive Session)
- **RC302** Strategies for ABR Core Exam and ACGME Program Requirements
- **RC303** Adult Structural and Congenital Heart Disease (An Interactive Session)
- **RC305** Alzheimer’s Disease
- **RC306** Sinonasal and Orbital Imaging
- **RC307** GU Ultrasound 2014: The Expert’s Update on Kidney, Gynecologic and Testicular US
- **RC308** Emergency Imaging in Vulnerable Populations—Considerations and Calibrations

**RC310** Second and Third Trimester Obstetrical Ultrasound

**RC316** The Aging Radiologist: How to Cope, When to Quit (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)

**RC317** MR Neurography and New Methods to Image Pain

**RC318** Imaging of Tumor Syndromes (An Interactive Session)

**RC320** New Paradigms for the Treatment of Hodgkin’s and non-Hodgkin’s Lymphomas: The Crucial Role of Imaging

**RC321** Medical Physics 2.0: Information Management and Display

**RC322** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Site-specific IGRT Applications: Impact of Different Approaches on Uncertainties

**Tuesday Highlights**
- **SPSC30, SPSH30:** Controversy/Hot Topic Sessions
- **RC325:** Quantitative Imaging: Volumetric CT as a Biomarker for Disease
- **SPCP31:** Canada Presents: Beyond Diagnosis—How Cardiovascular Imaging Research in Canada Is Improving Clinical Outcomes
- **PS30:** Annual Oration in Diagnostic Radiology
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Tuesday, December 2
10:30 AM – 12:00 PM

Beyond Diagnosis: How Cardiovascular Imaging Research in Canada is Improving Clinical Outcomes
Learn how discoveries in cardiovascular imaging are making a difference for patients.

Special Recognition for Canadian Attendees
Receive a special ribbon for your badge at this session with opening remarks by RSNA President, N. Reed Dunnick, M.D.

Featured throughout the week:

› Navigating RSNA 2014 in English and en français
   Learn the best tips for getting around the meeting from your colleagues at RSNA’s Global Connection booth.

› Canadian Association of Radiologists (CAR)
   Visit the CAR booth #1218 to learn about the radiology community in Canada.

For more information about Canada Presents at RSNA 2014, visit RSNA.org/CanadaPresents
Tuesday, December 2

1:30 PM – 2:45 PM

PS30  Tuesday Plenary Session; Annual Oration in Diagnostic Radiology; Transitioning from Volume-Based to Value-Based Practice: A Meaningful Goal for All Radiologists or a Meaningless Platitude?

1:30 PM – 3:00 PM

MSAS33  Management of Portal Hypertension (An Interactive Session) (Sponsored by the Associated Sciences Consortium)

MSCC33  Case-based Review of Nuclear Medicine: PET/CT Workshop—Cancers of the Abdomen and Pelvis (In Conjunction with SNMMI) (An Interactive Session)

MSES33  Essentials of Chest Imaging

MSQI33  Staff and Patient Safety: The Lean Toolbox in Practice

1:30 PM – 6:00 PM

VSIO31  Interventional Oncology Series: Liver Metastases

2:30 PM – 4:00 PM

RCA34  Rapid Application Development with XIP™—the eXtensible Imaging Platform (Hands-on)

RCB34  Making the Most of Google Docs: Collaborative Word Processors, Spreadsheets, and Calendars (Hands-on)

RCC34  Using IHE Profiles to Plan for Medical Imaging

3:00 PM – 4:00 PM

Scientific Sessions  (See pages 29-30)

3:00 PM – 4:15 PM

MSR033  BOOST: Head and Neck—Case-based Review (An Interactive Session)

MSR036  BOOST: Gynecology—Case-based Review (An Interactive Session)

3:30 PM – 5:00 PM

MSAS34  Normalization of Deviance: What Is Happening in Your Department? (Sponsored by the Associated Sciences Consortium) (An Interactive Session)

MSCC34  Case-based Review of Nuclear Medicine: PET/CT Workshop—Lymphoma/Melanoma/Sarcoma (In Conjunction with SNMMI) (An Interactive Session)

MSES34  Essentials of Breast Imaging

4:30 PM – 6:00 PM

RC401  Contemporary Imaging of Lung Cancer

RC402  Interactive Game: How to Be the Speaker Everyone Wants You to Be

RC403  Interpreting Coronary Artery CTA

RC404  Hip Imaging: Challenges and Solutions

RC405  Traumatic Brain Injury

RC406  Temporal Bone Imaging

RC407  Abdominal Incidentalomas: What to Report for Adrenal, Renal and Adnexal Incidental Findings

RC408  Blood on the Brain: Intracranial Hemorrhage in the Emergency Setting (An Interactive Session)

RC409  Interactive Game: Gastrointestinal: Abdominal Masses

RC410  Renal Ultrasound and Doppler (An Interactive Session)

RC411  Advances in Cardiac Nuclear Imaging: SPECT/CT and PET/CT

RC412  Thoracic Aorta: Key Concepts (An Interactive Session)

RC413  Venous Disease

RC414  Clinical Breast MR Imaging (An Interactive Session)

RC415  Radiology Education in Developing Nations: A Focus on Needs and Support in Latin America and Asia Oceania Regions (Sponsored by the RSNA Committee on International Radiology Education)

RC417  Novel Applications of Dual Energy CT

RC418  Interactive Game: Interactive Quiz Cases in Body Oncologic Imaging

RC420  Role of Stereotactic Ablative Radiotherapy (SABR) and Interventional Radiology in the Management of Oligometastases

RC421  Medical Physics 2.0: Fluoroscopy

RC422  Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Margins and Margin Design

RC423  Minicourse: Recording and Reporting Radiation Dose: CT

RC424  Mentored Case Approach to Pediatric Cardiovascular Disease 1: Vascular (An Interactive Session)

RC425  Quantitative Imaging: Informatics

RC427  Critical Issues Facing the Practice of Radiology in 2015 and Beyond: A Roundtable with ACR Leaders (In Conjunction with the American College of Radiology)

RC429  Interactive Game: Prostate MRI Using PI-RADS (Prostate Imaging Reporting and Data System)

RC432  Measuring Quality in Radiology

RC450  Vertebroplasty (How-to Workshop)

RC451  Imaging in Practice: MRI of the GIT (How-to Workshop)

RC452  Nerve Ultrasound Based on a Regional Approach: Shoulder and Neck (Hands-on Workshop)

RC453  Clinical Decision Support: Lessons from the Medicare Imaging Demonstration

RC454  Ergonomics

RCB35  Hands-on Natural Language Processing: Extracting Value from Imaging Reports (Hands-on)

RCC35  Technologies for Creating Educational Content and Teaching Files

4:45 PM – 6:00 PM

MSRO39  BOOST: Gynecology—Hands-on Contouring
Wednesday, December 3

7:00 AM
7:30 AM
8:00 AM
8:30 AM
9:00 AM
9:30 AM
10:00 AM
10:30 AM
11:00 AM
11:30 AM
12:00 PM
12:30 PM

Program Key
- Multisession Courses
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

Symbol Key
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

Learning Center Hours
Wednesday: 7:00 AM – 7:30 PM
Technical Exhibits Hours
Wednesday: 10:00 AM – 5:00 PM

WEDNESDAY HIGHLIGHTS

SPDL41: RSNA Diagnosis Live™: Body, Cardiac, MSK, Neuro, Ent Po Pouree

SPSC40: Controversy Session: Breast Density Notification Legislation: Pros and Cons

SPSC41: Controversy Session: DTI in Head Injury: Crossing Borders, Clinical Applications, and Legal Ramifications

SPSC42: Controversy Session: Overreading Outside Examinations: Controversies, Benefits, and Pitfalls

SPSC43: Controversy Session: Point-of-Care Ultrasound: Is there an Owner or Do We All Just Rent?

SPSC44: Controversy Session: Vertebroplasty: Science or Séance?

SPSH40: Hot Topic Session: Prostate Interventions—Fused US/MRI Guidance

8:00 AM – 9:00 AM

MSRT41: ASRT@RSNA 2014: Innovation and Translational Research: How to Promote Each within Your Organization

8:30 AM – 10:00 AM

MSCS41: Case-based Review of Musculoskeletal Radiology (An Interactive Session)

MSES41: Essentials of Ultrasound

MSRO41: BOOST: CNS—Oncology Anatomy—MR and PET Imaging Brain Tumors: Practical Primer for the Radiologist and Radiation Oncologist (An Interactive Session)

MSSR41: RSNA/ESR Emergency Symposium: General Principles, Pediatric and ENT Emergencies (An Interactive Session)
### Course Enrollments:

<table>
<thead>
<tr>
<th>Time</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 PM</td>
<td>Plenary Session PS40</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Scientific Sessions</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Refresher/Informatics Courses RCAA43, RCB43, RCC43</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Special Course SPHA41</td>
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<tr>
<td>3:00 PM</td>
<td>Multisession Course MSRT44</td>
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<tr>
<td>3:30 PM</td>
<td>Multisession Course MSRT45</td>
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<tr>
<td>4:00 PM</td>
<td>Multisession Course MSRT46</td>
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<tr>
<td>4:30 PM</td>
<td>Multisession Course MSRP41</td>
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<tr>
<td>5:00 PM</td>
<td>Multisession Courses MSCU41, MSES43, MSSR43</td>
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<tr>
<td>5:30 PM</td>
<td>Multisession Courses MSCU42, MSES44, MSSR44</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>Multisession Course MSR043</td>
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</table>

#### Session Descriptions:

- **RC501** Waiting to Exhale: What’s the Latest with Inhalation Lung Diseases? (An Interactive Session)
- **RC502** What’s New from the American Board of Radiology
- **RC503** Interactive Game: Read with the Experts (Cardiac Radiology)
- **RC504** Bone and Cartilage Injury: Traumatic and Stress-related Chondral, Osteochondral and Subchondral Failure with Emphasis on Pathophysiology and Routine and Advanced MR Imaging
- **RC506** SCC of the Upper ADT: A Primer
- **RC507** Advancements in Renal Tumor Treatment: What We Need to Know Before and After Therapy
- **RC508** Multimodality Imaging of the Acute Female Pelvis: US, CT and MRI (An Interactive Session)
- **RC509** Gastrointestinal: Tumor Response Assessment (An Interactive Session)
- **RC510** Gynecologic Ultrasound: 2D and 3D
- **RC511** Advances and Updates in SPECT/CT
- **RC512** Imaging and Endografts
- **RC513** Advanced Pediatric US Imaging
- **RC515** The New BI-RADS (An Interactive Session)
- **RC516** AAWR/RSNA Instructional Session: Integration of Radiology and Radiation Oncology in Fighting Lung Cancer (In Conjunction with the American Association for Women Radiologists)
- **RC517** Emerging Breast Imaging Strategies
- **RC518** Imaging Cancer Treatment Complications
- **RC520** Fundamentals of Imaging for the Radiation Oncologist
- **RC521** Medical Physics 2.0: Nuclear Imaging
- **RC522** Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Imaging for Target Definition
- **RC523** Minicourse: Recording and Reporting Radiation Dose: Nuclear Medicine
- **RC524** Interactive Game: Mentored Case Approach to Pediatric Cardiovascular Disease 2: Cardiac
- **RC525** Quantitative Imaging: Diffuse Lung Disease Assessment Using CT
- **RC527** The Affordable Care Act: What Does it Mean for Radiology and Radiologists?
- **RC529** Interactive Game: MR Imaging Innovations for the Oncological Practice: Case-based Instruction
- **RC531** Small Parts Interventional Ultrasound (Hands-on Workshop)
- **RC532** What Is Driving Health Care Reform and How it Is Changing Your Radiology Practice
- **RC550** Targeted Treatment and Imaging of Liver Cancers: Basic to Advanced Techniques in Minimally-Invasive Therapies and Imaging (How-to Workshop)
- **RC551** Imaging in Practice: DWI in the Abdomen and Pelvis (How-to Workshop)
- **RC552** Dynamic Musculoskeletal US: Clicks and Clunks of the Upper Extremity (Hands-on Workshop)
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$300

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30 AM – 12:00 PM</td>
<td><strong>Scientific Sessions</strong> <em>(See pages 29-30)</em></td>
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<tr>
<td></td>
<td><strong>MSCS42</strong> Case-based Review of Musculoskeletal Radiology (An Interactive Session)</td>
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<td><strong>MSES42</strong> Essentials of Pediatric Imaging</td>
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<td><strong>MSR042</strong> BOOST: CNS—Integrated Science and Practice (ISP) Session</td>
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<td><strong>MSSR42</strong> RSNA/ESR Emergency Symposium: CNS Emergencies (An Interactive Session)</td>
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<td><strong>RCA42</strong> DtiStudio/MriStudio: Integrated Software Resource for White Matter Mapping and Quantitative Image Analysis (Hands-on)</td>
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<td><strong>RCB42</strong> Creating, Storing, and Sharing Teaching Files Using RSNA’s MIRC® (Hands-on)</td>
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<td></td>
<td><strong>RCC42</strong> Standardized Terminology in Radiology: Applications and New Developments using RadLex and Playbook</td>
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<tr>
<td>12:15 PM – 1:15 PM</td>
<td><strong>Poster Discussions AMA PRA Category 1 Credit™</strong></td>
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<tr>
<td>12:30 PM – 2:00 PM</td>
<td><strong>RCA43</strong> National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)</td>
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<td><strong>RCB43</strong> Creating and Delivering Online and Mobile Education Content: From Online Courses to Interactive iBooks (Hands-on)</td>
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<td></td>
<td><strong>RCC43</strong> The RSNA Image Share Network—How It Operates and How to Put It into Your Office</td>
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<tr>
<td>1:00 PM – 2:00 PM</td>
<td><strong>MSRT44</strong> ASRT®RSNA 2014: The Miracle of Breast MRI</td>
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<tr>
<td>1:30 PM – 2:45 PM</td>
<td><strong>PS40</strong> Wednesday Plenary Session; Annual Oration in Radiation Oncology: “Error Bars” in Medical Imaging: Stealth and Treacherous</td>
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<td>1:30 PM – 3:00 PM</td>
<td><strong>MSCU41</strong> Case-based Review of US (An Interactive Session)</td>
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<td><strong>MSES43</strong> Essentials of Neuro Imaging</td>
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<td></td>
<td><strong>MSSR43</strong> RSNA/ESR Emergency Symposium: Chest Emergencies (An Interactive Session)</td>
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<tr>
<td>1:30 PM – 4:45 PM</td>
<td><strong>SPHA41</strong> Hospital Administrators Symposium</td>
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<td>1:30 PM – 5:00 PM</td>
<td><strong>MSRP41</strong> RSNA Resident and Fellow Symposium (An Interactive Session)</td>
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<tr>
<td>2:30 PM – 4:00 PM</td>
<td><strong>RCA44</strong> Structured Annotation and Image Markup (AIM) Template and Toolsets (Hands-on)</td>
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<td><strong>RCB44</strong> 3D Printing (Hands-on)</td>
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<td><strong>RCC44</strong> Workflow Tools to Optimize Departmental Operations</td>
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<tr>
<td>3:40 PM – 4:40 PM</td>
<td><strong>MSRT46</strong> ASRT®RSNA 2014: Tuberous Sclerosis Complex (TSC) as It Relates to Diagnostic Imaging</td>
</tr>
<tr>
<td>10:40 AM – 11:40 AM</td>
<td><strong>MSRT43</strong> ASRT®RSNA 2014: Expanding the Role of the Radiographer in the Quality Assurance Triangle</td>
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<tr>
<td>12:15 PM – 1:15 PM</td>
<td><strong>Poster Discussions AMA PRA Category 1 Credit™</strong></td>
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**Wednesday, December 3 (continued)**
### Thursday, December 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td><strong>Special Courses</strong> SPSC50, SPSH50</td>
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<tr>
<td>7:30 AM</td>
<td><strong>Refresher/Informatics Courses</strong> RC600s, RCC51</td>
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<tr>
<td>8:00 AM</td>
<td><strong>Multisession Course</strong> MSRT51</td>
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<tr>
<td>8:30 AM</td>
<td><strong>Multisession Course</strong> MSRT52</td>
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<td>9:00 AM</td>
<td><strong>Multisession Course</strong> MSRT53</td>
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<td>9:30 AM</td>
<td><strong>Multisession Course</strong> MSRT54</td>
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<tr>
<td>10:00 AM</td>
<td><strong>Scientific Sessions</strong></td>
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<td><strong>Multisession Course</strong> MSRT51</td>
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<td><strong>Multisession Course</strong> MSRT54</td>
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<td><strong>Multisession Course</strong> MSRT51</td>
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**Program Key**
- Multisession Courses
- Plenary Sessions
- Refresher/Informatics Courses
- Series Courses
- Scientific Sessions
- Special Courses

**Symbol Key**
- Early Shuttle Available
- Additional Fee Offerings
- Non-ticketed Offerings
- Academy of Radiology Leadership and Management Programming
- RSNA Diagnosis Live™

### Learning Center Hours
- Thursday: 7:00 AM – 7:30 PM
- Technical Exhibits Hours Thursday: 10:00 AM – 2:00 PM

### Refresher/Informatics Courses
- RC602 Business Education in Academic Radiology: New Imperatives for the New World of Healthcare
- RC603 Cardiac PET/CT and PET/MR
- RC604 Glands of the Head and Neck
- RC605 Bladder, the Forgotten Organ: Role of CT, MRI, and PET in Diagnosis, Staging, and Surveillance of Cancer
- RC606 Gastrointestinal: CT Colonography Update (An Interactive Session)
- RC607 Thyroid and Neck Ultrasound
- RC608 Update on Radionuclide Therapies
- RC609 Interactive Game: Pediatric: Oncology
- RC610 Breast US
- RC611 Service Excellence in Radiology (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)

### Scientific Sessions
- RC617 MR-Guided High Intensity Frequency Ultrasound (HIFU)
- RC618 Pitfalls in Oncologic Imaging
- RC619 Medical Physics 2.0: Radiography
- RC620 Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Incorporation of Imaging as a Biomarker in RT
- RC621 Minicourse: Current Topics in Medical Physics—Nuclear Cardiac Imaging for Physicists
- RC622 Reviewing Manuscripts for the RSNA Journals (Sponsored by the RSNA Publications Council)
- RC623 Quantitative Imaging: Functional MRI (fMRI)
- RC624 Changing Radiologist-Hospital Relationships
- RC625 HCC Diagnosis Using LI-RADS (An Interactive Session)

### Special Courses
- SPSC50 Controversy Session: Predicting Outcome with Cardiac CT—Which Is Best?
- SPSH50 Hot Topic Session: Advances in Prostate Cancer Imaging
- MSRT51 ASRT@RSNA 2014: Contrast Media—Adverse Reactions and Management
- MSCN51 Case-based Review of Neuroradiology (An Interactive Session)
- MSCP51 Case-based Review of Pediatric Radiology (An Interactive Session)
- MSES51 Essentials of Genitourinary Imaging
- RC601 Chest Imaging: How Radiologic-Pathologic Correlation Informs Interpretation
- RC602 Business Education in Academic Radiology: New Imperatives for the New World of Healthcare
- RC603 Cardiac PET/CT and PET/MR
- RC604 Glands of the Head and Neck
- RC605 Bladder, the Forgotten Organ: Role of CT, MRI, and PET in Diagnosis, Staging, and Surveillance of Cancer
- RC606 Gastrointestinal: CT Colonography Update (An Interactive Session)
- RC607 Thyroid and Neck Ultrasound
- RC608 Update on Radionuclide Therapies
- RC609 Interactive Game: Pediatric: Oncology
- RC610 Breast US
- RC611 Service Excellence in Radiology (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)

### Thursday Highlights
- **SPSC50, SPSH50:** Controversy/Hot Topic Sessions
- **RC601:** Practical Informatics for the Practicing Radiologist
- **PSS50:** RSNA/AAPM Symposium
- **SPR51:** RadioGraphics’ Publication Information for Potential Authors
- **SPDL51:** RSNA Diagnosis Live™: Musculoskeletal/Pediatric/Interventional Radiology
### RC631
Tumor Ablation beyond the Liver: Practical Techniques for Success (How-to Workshop)

### RC632
Value-Added Initiatives for a Healthcare System

### RC650
Image-guided Biopsy of the Spine (Hands-on Workshop)

### RC652
Techniques for Interventional Sonography and Thermal Ablation (Hands-on Workshop)

### RC653
Current and Next Generation Health IT Tools to Enable Radiation Exposure Reduction—A Practical Guide

### RC654
Health IT Incentive Programs: Experience from Private Radiology Practices (An Interactive Session)

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**8:30 AM – 12:00 PM**

- **8:30 AM – 12:00 PM**
  - **Scientific Sessions** (See pages 29-30)
  - **MSCN52** Case-based Review of Neuroradiology (An Interactive Session)
  - **MSCP52** Case-based Review of Pediatric Radiology (An Interactive Session)
  - **MSESS52** Essentials of Postoperative Gastrointestinal Imaging
  - **RC52** National Library of Medicine: Free Online Databases: Images and More (Hands-on)
  - **RC53** Creating a 3D Printing Lab for Anatomical Modeling in Radiology
  - **RCC53** Quantitative Imaging and Informatics (In Association with the Society for Imaging Informatics in Medicine)

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**11:45 AM – 12:45 PM**

- **11:45 AM – 12:45 PM**
  - **MSRT54** ASRT@RSNA 2014: Advanced Radiographic Practice in Adult Chest Imaging

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**12:30 PM – 3:00 PM**

- **12:30 PM – 3:00 PM**
  - **MSCA51** Case-based Review of the Abdomen (An Interactive Session)
  - **MSCB51** Case-based Review of Breast (An Interactive Session)

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**1:30 PM – 2:45 PM**

- **1:30 PM – 2:45 PM**
  - **SPDL51** Thursday Plenary Session: RSNA/AAPM Symposium: Radiomics: From Clinical Images to Omics
  - **SPDG51** *Radiographics*’ Publication Information for Potential Authors

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**5:30 AM – 12:00 PM**

- **5:30 AM – 12:00 PM**
  - **VSER51** Emergency Radiology Series: Contemporary and (Sometimes) Controversial Topics in Imaging of Trauma
  - **VSI51** Interventional Series: Peripheral and Visceral Occlusive Disease
  - **VSMK51** Musculoskeletal Series: Knee Imaging
  - **VSN51** Neuroradiology Series: Brain Tumors
  - **VSDS51** Pediatric Series: Minimizing Sedation in Pediatric MRI
  - **VSV51** Vascular Imaging Series: CT Angiography—New Techniques and Their Application
  - **MSRT52** ASRT@RSNA 2014: Stomach Esophageal Pathology
  - **MSRT53** ASRT@RSNA 2014: Practice Standards and Ethical Considerations in Daily Practice

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**1:00 PM 1:30 PM 2:00 PM 2:30 PM 3:00 PM 3:30 PM 4:00 PM 4:30 PM 5:00 PM 5:30 PM 6:00 PM**

### Plenary Session
- **PS50**

### Multisession Course
- **MSRT55**

### Multisession Course
- **SPDL51**

### Multisession Course
- **SPDG51**

### Refresher/Informatics Courses
- **RCA53**, **RC53**, **RCC53**

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**3:00 PM – 3:30 PM**

- **3:00 PM – 3:30 PM**
  - **RC52** 3D Printing (Hands-on)
  - **RCC52** Practical Informatics for the Practicing Radiologist: Part Two (In conjunction with the Society for Imaging Informatics in Medicine)
CME on the Go

All of RSNA’s online CME offerings include:

- Mobile accessibility
- Tablet ready
- Interactive touch-screen learning
- Instantaneous user feedback

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Log on today and submit your diagnosis!

Visit RSNA.org/Library and select “Cases of the Day” to get started!

For more information contact: ed-ctr@rsna.org
Thursday, December 4  [continued]

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<thead>
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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:30 PM – 6:00 PM</td>
<td>VSIO51 Interventional Oncology Series: Lung and Bone</td>
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<tr>
<td>2:30 PM – 4:00 PM</td>
<td>RCB54 Productive Tools and Technology for the Academic Radiologist (Hands-on)</td>
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<td>RCC54 Natural Language Processing: Extracting Information from Radiology Reports to Improve Quality</td>
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<tr>
<td>3:00 PM – 4:00 PM</td>
<td>SPDL51 RSNA Diagnosis Live*: Musculoskeletal/Pediatric/Interventional Radiology</td>
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<tr>
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<td>SPSH51 Hot Topic Session: Tendon Injections: Which One Works Best?</td>
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<td></td>
<td>SPSH52 Hot Topic Session: Lung Cancer Screening: Update on Policies and Procedures</td>
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<td>SPSH53 Hot Topic Session: Imaging of Oncologic Surveillance in the Era of Local Targeted Therapies</td>
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<td>SPSH54 Hot Topic Session: Imaging and Treatment of Neuroendocrine Tumors</td>
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<td>MSCA52 Case-based Review of the Abdomen (An Interactive Session)</td>
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<td>MSCB52 Case-based Review of Breast (An Interactive Session)</td>
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<tr>
<td>4:30 PM – 6:00 PM</td>
<td>RC701 Practical Issues in Chest Imaging (An Interactive Session)</td>
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<td>RC702 Leadership: How Can We Teach It and Promote It? (An Interactive Session)</td>
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<td>RC703 Cardiac Perfusion Imaging with MR &amp; CT</td>
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<td>RC704 Musculoskeletal Tumor Imaging</td>
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<td>RC705 Non-Traumatic Neuro Emergencies</td>
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<td>RC706 How to Say it: Generating High Impact H&amp;N Reports</td>
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<td>RC707 Quality and Safety 2014: Best Practices, Radiation, and Contrast Media</td>
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<td>RC709 Imaging Pancreaticobiliary Diseases (An Interactive Session)</td>
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<td>RC710 Ultrasound of Superficial Structures (An Interactive Session)</td>
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<td>RC711 Head and Neck Cancer PET Interpretation with Case Examples (An Interactive Session)</td>
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<td>RC712 Non-Atherosclerotic Vascular Diseases (An Interactive Session)</td>
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<td>RC713 Pediatric: Neuro II</td>
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<td>RC714 Pain and Sedation in 2014</td>
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<td>RC715 Digital Breast Tomosynthesis</td>
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<td>RC716 Mitigation of Litigation (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)</td>
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<td>RC717 Quantitative CT and MR Perfusion Imaging</td>
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<td>RC718 Radiogenomics of Lung Cancer—Changing Landscape and Challenges</td>
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<td>RC721 Medical Physics 2.0: Mammography</td>
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<td>RC722 Uncertainties in Imaging for Radiation Oncology: Sources and Mitigation Techniques—Image Guidance in the Treatment Room</td>
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<td>RC723 Minicourse: Current Topics in Medical Physics—Radiation Dose Reduction in Medical Imaging</td>
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<td>RC724 The Ethical Power of Radiologic Technology: Reviewing the Past to Prepare for the Future (Sponsored by the RSNA Professionalism Committee) (An Interactive Session)</td>
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<td>RC725 Quantitative Imaging: Current and Future Practice in Radiology and Clinical Trials</td>
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<td>RC726 From Research to Reimbursement: Lung Cancer Screening and Healthcare Payment Policy (In Conjunction with the American College of Radiology) (An Interactive Session)</td>
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<td>RC727 Abdominal MRA Update (An Interactive Session)</td>
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<td>RC731 US for Thyroid Cancer: Diagnosis, Surveillance, and Treatment (How-to Workshop)</td>
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<td>RC732 Compensation Plans and Funds Flow</td>
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<td>RC750 MR Imaging-guided Breast Biopsy (Hands-on Workshop)</td>
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<td>RC751 CT Dose Reduction: Diagnostic Information, Image Quality and CT Radiation Dose (How-to Workshop) (An Interactive Session)</td>
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<td>RC752 US-guided Interventional Breast Procedures (Hands-on)</td>
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<td>RC753 Decoding the Alphabet Soup (IHE*, MIRC®, RadLex®, Reporting): Whirlwind Tour of RSNA Informatics Projects</td>
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<td>RC754 Health IT Incentive Programs: Implications for Radiology IT Vendors. What Your Customers will Demand and Your Competition will Provide</td>
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</table>
### Friday, December 5

#### 8:30 AM – 9:00 AM
RC801 HRCT of Diffuse Lung Disease: Read Cases with the Experts (An Interactive Session)
RC802 International Educational Outreach-Challenges and Benefits
RC803 Imaging Nonischemic and Ischemic Disease of the Myocardium
RC805 Multiple Sclerosis
RC806 Head and Neck Emergency!
RC807 Interactive Game: A Case-based Audience Participation Session (Genitourinary)
RC808 The Usual and Unusual Abdominal Emergencies
RC809 Pitfalls in Abdominal Imaging
RC810 Vascular Doppler (An Interactive Session)
RC811 Multi-modal Imaging Workup for Alzheimer’s Disease, Parkinson’s Disease, and Related Disorders: Case-based Approach
RC812 Acute Abdominal Vascular Diseases
RC813 Pediatric: CV/Chest
RC815 Mammographic Interpretation

#### 9:00 AM – 10:00 AM
RC816 Tweet This: How to Make Radiology More Patient Centered (Sponsored by the RSNA Public Information Committee)
RC817 PET-MR/Hyperpolarized MR
RC818 Interactive Game: Interactive Quiz Cases in Neuro-oncologic Imaging
RC821 Medical Physics 2.0: Computed Tomography
RC823 Minicourse: Current Topics in Medical Physics—Clinically Focused Physics Education: Principles to Practice
RC824 Publishing in Radiology: What You Always Wanted to Know and Never Asked
RC825 Quantitative Imaging: Dynamic Contrast Enhanced MRI (DCE-MRI)
RC827 Value: What Is It, and What Does It Mean for Radiology?
RC829 Should I Scan That Patient? A Very Interactive Session on MR Safety and Regulations (An Interactive Session)
RC831 Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain (Hands-on Workshop)
RC832 Aligning Incentives Along the Imaging Value Chain
RC850 Fallopian Tube Catheterization (Hands-on Workshop)

#### 10:00 AM – 11:00 AM
RC851 CT/PET in the Abdomen and Pelvis: How and When (How-to Workshop) (An Interactive Session)
RC852 Real-time Interventional US (Hands-on Workshop)
RC854 Health IT Tools to Improve Quality and Safety in Radiology (An Interactive Session)
RC861 National Library of Medicine: Save Searches, Get Updates: The Free PubMed My NCBI Tool (Hands-on)
RC862 Optimizing PowerPoint Slides

#### 11:00 AM – 12:00 PM
VSIR61 Interventional Series: Venous Disease
VSMK61 Musculoskeletal Series Course: Shoulder Imaging

#### 12:30 PM – 1:30 PM
SPFR61 Friday Imaging Symposium: A Guided Tour for Managing Incidental Findings: Adnexal, Thyroid, Pediatric, Adrenal and Chest
### Scientific Session Topics

**Look for complete program online in September at RSNA.org/MeetingProgram**

#### Sunday, November 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Sessions</th>
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| 10:45 AM – 12:15 PM | • Breast Imaging (Ultrasound Screening)  
• Cardiac (Anatomy and Function)  
• Cardiac (Cardiovascular Disease)  
• Chest (Lung Cancer Screening)  
• Emergency Radiology (Practice and Protocols)  
• Gastrointestinal (Dual Energy CT)  
• Gastrointestinal (Hepatocellular Carcinoma)  
• Gastrointestinal (Rectal Cancer)  
• Genitourinary (Evaluation of the Renal Mass)  
• Genitourinary (Multiple Modalities for Imaging Pregnancy)  
• Informatics (Education and Research)  
• Molecular Imaging (GYN/Breast Cancer)  
• Musculoskeletal Imaging (Soft Tissue Tumors)  
• Musculoskeletal Imaging (Translational Imaging Techniques in Tendon and Muscle)  
• Neuroradiology (Temporal Bones)  
• Neuroradiology (The Aging Brain & Neurodegenerative Diseases)  
• Neuroradiology (Vascular Disease of the Head & Neck)  
• Nuclear Medicine (PET/CT for Oncology ISP)  
• Physics (Computed Tomography I)  
• Physics (Magnetic Resonance Imaging I)  
• Physics (Nuclear Imaging, Other Topics)  
• Radiation Oncology (Lung Cancer)  
• Vascular/Interventional (IR: Advanced Vascular Imaging)  
• Vascular/Interventional (IR: Biopsy/Drainage) |

#### Monday, December 1

<table>
<thead>
<tr>
<th>Time</th>
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| 10:30 AM – 12:00 PM | • BOOST - Lung Cancer: Integrated Science and Practice (ISP) Session  
• BOOST - Gastrointestinal Cancer: Integrated Practice and Science (ISP) Session  
• Cardiac (Coronary Artery Disease/Low Dose Techniques)  
• Cardiac (Valve Disease)  
• Chest (Lung Nodule)  
• Gastrointestinal Oncology: Surveillance and Response  
• Gastrointestinal (Pancreas Cancer)  
• Health Service, Policy, and Research (Economic Analyses)  
• Informatics (Enterprise Integration)  
• Musculoskeletal Imaging (Advanced Cartilage Imaging)  
• Neuroradiology (New Techniques in Brain Tumor Imaging)  
• Neuroradiology (Traumatic Brain Injury)  
• Physics (Computed Tomography II)  
• Physics (Magnetic Resonance Imaging II)  
• Radiation Oncology (Outcome and Quality of Life)  
• Vascular/Interventional (IR: Hepatic Tumor Embolization) |
| 10:30 AM – 12:00 PM | • Genitourinary (Benign Gynecologic Disease)  
• Genitourinary (Intravenous Contrast Issues in Uroradiology)  
• Health Service, Policy and Research (Education)  
• Informatics (Workflow and Displays)  
• Musculoskeletal Imaging (Central, Plexus, Nerve and Disc Imaging)  
• Musculoskeletal Imaging (Foot and Ankle)  
• Neuroradiology ( Advances in Intracranial CT and MR Angiography)  
• Neuroradiology (Parkinson Disease)  
• Neuroradiology (Stroke & Cerebrovascular Reserve)  
• Nuclear Medicine (Neuroimaging)  
• Pediatrics (Neuroimaging I)  
• Physics (CAD I)  
• Physics (Radiation Therapy I)  
• Physics (Ultrasound I)  
• Radiation Oncology (Head and Neck)  
• Vascular/Interventional (IR: Topics of Interest/GU) |

#### Tuesday, December 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Sessions</th>
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</table>
| 10:30 AM – 12:00 PM | • BOOST - Gynecologic Cancer - Integrated Practice and Science (ISP) Session  
• BOOST - Head and Neck Cancer - Integrated Practice and Science (ISP) Session  
• Breast Imaging (TAVR and Other Interventions)  
• Gastrointestinal (CT Dose Reduction I)  
• Genitourinary (Imaging of Renal Stones Using Dual Energy CT)  
• Health Service, Policy and Research (Quality)  
• Informatics (3D, Quantitative, and Advanced Visualization)  
• Molecular Imaging (Inflammation/Arthritis) |

#### COURSE ENROLLMENT

- Breast Imaging (CT/Contrast)  
- Breast Imaging (Quantitative Imaging)  
- Cardiac (Congenital Heart Disease)  
- Cardiac (Research/Population Studies)  
- Chest (Interventional)  
- Chest (Emergencies)  
- Gastrointestinal (Liver Masses)  
- Gastrointestinal (Pancreas Focal Lesions)  
- Gastrointestinal (Small Bowel Imaging)  
- Genitourinary (Male Pelvis with Lymph Node Characterization)  
- Genitourinary (MR and CT of the Urothelium)  
- Health Service, Policy and Research (Evidence-based Radiology)  
- Informatics (Business Analytics)  
- Molecular Imaging (GI/Liver)  
- Musculoskeletal Imaging (Hip and Pelvis Evaluation)  
- Musculoskeletal Imaging (Clinical Imaging Metabolic Disease and Osteoporosis)  
- Neuroradiology (ENT Oncology)  
- Neuroradiology (Epilepsy)  
- Neuroradiology (Neurointerventional Radiology)
Scientific Session Topics [continued]

- Nuclear Medicine (SPECT/CT and Inflammation Imaging)
- Physics (CAD II)
- Physics (Radiation Therapy II)
- Physics (Ultrasound II)
- Radiation Oncology (Genitourinary Cancer)
- Vascular/Interventional (IR: Aortic Imaging and Intervention)
- Vascular/Interventional (IR: Venous Disease and Intervention)

**Wednesday, December 3**

**10:30 AM – 12:00 PM**
- BOOST: CNS Tumors - Integrated Practice and Science (ISP) Session
- Breast Imaging (Pathology Management)
- Breast Imaging (Tomosynthesis Screening)
- Cardiac (Coronary Artery Disease)
- Cardiac (Myocardial Viability and Ischemia)
- Chest (Emphysema/Airway)
- Gastrointestinal (CT Colonography)
- Gastrointestinal (Liver Fibrosis)
- Gastrointestinal (Pancreas Benign Disease)
- Genitourinary (Novel MR Techniques for Imaging Gynecologic Malignancies)
- Genitourinary (Prostate Staging and Follow-up Using MRI)
- Health Service, Policy, and Research (Other)
- Informatics (Quality and Safety)
- Molecular Imaging (Neurosciences)
- Musculoskeletal Imaging (Infection and Arthritis)
- Musculoskeletal (Interventional)
- Neuroradiology (Advanced Neuroimaging of Alzheimer’s Disease)
- Neuroradiology (Head & Neck Tumors)
- Nuclear Medicine (PET/MRI for Oncology)

**11:00 AM – 12:00 PM**
- Breast Imaging (Biopsy Techniques)
- Breast Imaging (Ultrasound Diagnostics)
- Cardiac (Outcomes and Risk Stratification)
- Cardiac (Pulmonary Artery Disease)
- Chest (New Session)
- Chest (Thoracic Malignancy)
- Gastrointestinal (CT Dose Reduction II)
- Gastrointestinal (Esophagus Imaging)
- Gastrointestinal (Loco-regional Therapy Liver Imaging)
- Genitourinary (Adrenal Masses)
- Health Service, Policy and Research (Guidelines/Outcomes)
- Informatics (Image Sharing)
- Molecular Imaging (New Tracers, Contrast Agents, Cell Labeling Methods)
- Musculoskeletal Imaging (Utilization, Dose Reduction and Technical Considerations)
- Neuroradiology (Cerebral Ischemia, Hemorrhage & Vessel Wall Imaging)
- Neuroradiology (Neuro-Oncology)
- Neuroradiology (Resting State Functional Brain Imaging)
- Nuclear Medicine (Gastrointestinal and Endocrine)
- Pediatrics (General Pediatrics)
- Physics (Image Processing, Analysis I)
- Physics (X-ray Imaging II)

**3:00 PM – 4:00 PM**
- Breast Imaging (Breast Density and Risk Assessment)
- Cardiac (Dual Energy CT)
- Chest (Diffuse Lung Disease)
- Chest (Miscellaneous)
- Gastrointestinal (Large Bowel and Appendiceal Imaging)
- Gastrointestinal (MR Technique)
- Gastrointestinal (Oncology: Staging and Response)
- Genitourinary (Functional and Vascular Imaging of the Kidneys)
- Genitourinary (Intervention in the GU Tract)
- Informatics (Results and Reporting)
- Molecular Imaging (Prostate Cancer/Bone Metastases)
- Musculoskeletal (Advanced Imaging Bone Structure and Tumor Characterization)
- Neuroradiology (Quantitative Neuroimaging)
- Nuclear Medicine (Cardiovascular Imaging ISP)
- Pediatrics (Chest)
- Physics (Image Processing, Analysis II)
- Physics (Radiation Exposures, Doses IV)
- Vascular/Interventional (IR: GI and Hepatobiliary Interventions)
- Vascular/Interventional (IR: Gynecologic/Female Interventions)

**Thursday, December 4**

**10:30 AM – 12:00 PM**
- Breast Imaging (Breast Density and Risk Assessment)
- Cardiac (Dual Energy CT)
- Chest (Diffuse Lung Disease)
- Chest (Miscellaneous)
- Gastrointestinal (Large Bowel and Appendiceal Imaging)
- Gastrointestinal (MR Technique)
- Gastrointestinal (Oncology: Staging and Response)
- Genitourinary (Functional and Vascular Imaging of the Kidneys)
- Genitourinary (Intervention in the GU Tract)
- Informatics (Results and Reporting)
- Molecular Imaging (Prostate Cancer/Bone Metastases)
- Musculoskeletal (Advanced Imaging Bone Structure and Tumor Characterization)
- Neuroradiology (Quantitative Neuroimaging)
- Nuclear Medicine (Cardiovascular Imaging ISP)
- Pediatrics (Chest)
- Physics (Image Processing, Analysis II)
- Physics (Radiation Exposures, Doses IV)
- Vascular/Interventional (IR: GI and Hepatobiliary Interventions)
- Vascular/Interventional (IR: Gynecologic/Female Interventions)

**Friday, December 5**

**10:30 AM – 12:00 PM**
- Breast Imaging (Multi-Modality Imaging)
- Cardiac (Non-Ischemic Cardiomyopathy)
- Cardiac (Quantitative Cardiac Imaging)
- Chest (DE:Spectral CT/Vascular)
- Gastrointestinal (Gallbladder and Biliary Imaging)
- Gastrointestinal (Stomach Cancer and Masses)
- Genitourinary (New Technology for Imaging the GU Tract)
- Neuroradiology (Advances in Neuro CT Imaging)
- Neuroradiology (Cerebrovascular Imaging)
- Neuroradiology (New Techniques in Head & Neck Imaging)
- Nuclear Medicine (Comparative Technologies and Modalities)
- Pediatrics (Neuroimaging II)
- Physics (Image Processing, Analysis II)
- Physics (Radiation Exposures, Doses IV)
- Vascular/Interventional (IR: GI and Hepatobiliary Interventions)
- Vascular/Interventional (IR: Gynecologic/Female Interventions)
Course Enrollment Form

Registration Deadlines
October 24: Deadline for international full conference badge mailing.
November 7: Deadline for housing, discounted registration, and domestic full conference badge mailing.

Important
You must be a full conference registrant to register for courses. Add courses to your existing registration via online, fax, or mail. Requests are not accepted by telephone.

Registerant ID

Last Name / Family Name

Email Address

First Name

Degree(s)

Ticketed Courses
ASRT@RSNA 2014

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Additional Fee Required (See page 8)
NIH Grantsmanship Workshop and Study Section Reviewers Workshop require payment. Enroll online at RSNA.org/Register.

Select RSNA courses are offered as SAMs. These SAM courses satisfy the ABR Part II MOC requirements and the MOC program of the Royal College of Physicians and Surgeons in Canada. Advance registration at RSNA.org/Register is required for SAMs. Fee: RSNA members—$0. Non-members—$50 per SAM.

Refresher Courses
(Each course 1.50 AMA PRA Category 1 Credits) (See pages 9 – 28)

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Informatics Courses
(In special dedicated classrooms) (Each course 1.50 AMA PRA Category 1 Credits) (See pages 9 – 28). Indicate all your course choices for each day.

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Online: RSNA.org/Register
Fax: 1-888-772-1888
1-301-694-5124 (Outside U.S. & Canada)
Telephone: 1-800-650-7018
1-847-946-5862 (Outside U.S. & Canada)
Mail: Experient/RSNA 2014
5202 Presidents Court, Suite 310
Frederick, MD 21703 USA
Email questions to: rsna@experient-inc.com

RSNA 2014 COURSE ENROLLMENT 31