

ARRS
TORONTO
Annual Meeting
April 19–24, 2015

Metro Toronto Convention Centre

Where Top Radiologists **COME TO LEARN**



Offering practice-based education and the latest research for 115 years, the ARRS Annual Meeting is a must-attend event.

- Earn up to 60 CME credits and 46.5 SAM credits.
- Select from 145 sessions across 11 subspecialties.
- Explore hundreds of Electronic Exhibits, many offering CME credits.
- And more!

CAN'T COME TO TORONTO? PARTICIPATE ONLINE WITH THE VIRTUAL MEETING.



I invite you to join more than 3,000 radiologists and radiology-affiliated professionals from around the world and participate in ARRS' 115th Annual Meeting—in Toronto, Canada in person or online as part of the virtual meeting. As North America's oldest radiology society, ARRS has always been a trusted source of practice-based education. From the first Annual Meeting in 1900 in Buffalo, New York to the 2015 Annual Meeting in Toronto, ARRS has remained at the forefront of clinical medicine, while staying true to its singular mission of providing relevant and practical education.

As healthcare delivery evolves and medical imaging becomes increasingly competitive, we at ARRS remain steadfast in our commitment to quality education for the improvement of patient care and outcomes. For us, it's that simple, and nothing embodies our commitment like our Annual Meeting.

At the ARRS Annual Meeting, you will find educational opportunities in their purest form: dedicated professionals sharing breakthroughs, experience, and knowledge for the advancement of medical imaging and in support of the patients we serve.

ARRS faculty members are among the world's foremost experts, volunteering to present timely and essential knowledge across all subspecialties and modalities of radiology. At our meeting, you will have the opportunity to network with faculty and prominent radiology leaders.

Our members tell us time and time again that this is the meeting where they can truly connect, the meeting where real learning happens. At this meeting, you will engage in a professional dialogue that enhances your skill and advances your knowledge. Such opportunities make being part of this profession an honor and a joy.

On behalf of ARRS, I invite you to join this unique educational experience. Come join us at the 115th ARRS Annual Meeting! I look forward to seeing you in Toronto.

Melissa Rosado de Christenson, MD

ARRS President

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REGISTER BY FEBRUARY 6 TO RECEIVE THE LOWEST RATES!

The early-bird deadline
for the ARRS Annual
Meeting is **Friday,
February 6.**

After this date, the
regular pre-registration
rates will apply.

Register Online

www.arrs.org/meeting

Register by Fax

(703) 729-4839

Register by Mail

ARRS, PO Box 418863
Boston, MA 02125-8863

Questions

Phone: 866-940-2777

or 703-729-3353

Email: meeting@arrs.org

Office Hours:

Monday–Friday

8:30 am–5:00 pm

Eastern Time Zone



CAN'T COME TO TORONTO?

Participate Online!

The Virtual Meeting will present
live streaming of select educational
events as they take place in real time.
Virtual Meeting attendees can earn
CME and SAM credits and interact
with faculty online.

Learn more on page 16.

SCHEDULE AT A GLANCE

With educational activities across the spectrum of radiology, the ARRS Annual Meeting will provide an in-depth learning opportunity for all medical imaging professionals. See the comprehensive **Daily Schedules** on pages 17–23.

	7AM	8AM	9AM	10AM	11AM	12 Noon
Sunday April 19				Education Seminar		
		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		
		Breast Imaging Great Debate: Screening Mammography Controversies				
				Business Seminar		
				Beverage Break		
Monday April 20	Power Hours		Scientific Sessions		Scientific Sessions	
		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		
			Instructional Courses		Instructional Courses	
				Beverage Break		Lunch in E
Tuesday April 21	Power Hours		Scientific Sessions		Scientific Sessions	
		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		
			Artifacts & Physics in Daily Imaging Practice: A Case-Based Approach Part 1		Artifacts & Physics in Daily Imaging Practice: A Case-Based Approach Part 2	
			Instructional Courses		Instructional Courses	
				Beverage Break		Lunch in E
Wednesday April 22	Power Hours		Scientific Sessions		Scientific Sessions	
			Instructional Courses		Instructional Courses	
				Beverage Break		Lunch in E
		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		
Thursday April 23	Power Hours		Scientific Sessions		Scientific Sessions	
			Instructional Courses		Instructional Courses	
				Beverage Break		
		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		
Friday April 24	Power Hours		Scientific Sessions		Scientific Sessions	
			Instructional Courses		Instructional Courses	
				Beverage Break		
		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		

	1PM	2PM	3PM	4PM	5PM	6PM
	Stroke Imaging: Latest Clinical Advances, Patient Safety, and Policy					
	Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.			Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		
				Radiology Year in Review		
			Beverage Break			5:45 Opening Ceremonies
		Scientific Sessions			SRS Guest Speaker Program	
	Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.			Categorical Course – The Dark Side of Radiology: Multispecialty After-Hours Imaging – See page 10.		
		Instructional Courses		Instructional Courses		
Exhibit Hall			Beverage Break			
		Scientific Sessions				
				Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		
	Quality and Safety in Radiology			Advanced Quality and Safety in Radiology		
		Instructional Courses		Instructional Courses		
Exhibit Hall			Beverage Break			
		Scientific Sessions				
		Instructional Courses		Instructional Courses		
Exhibit Hall			Beverage Break			
	Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.			Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		
		Scientific Sessions		Scientific Sessions		
		Instructional Courses		Instructional Courses		
			Beverage Break			
	Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.			Approach to Diagnosis: A Case-Based Imaging Review Course—See page 12.		
<i>“We are known for giving great education that the members can take back home and implement immediately into their practices.” —Melissa Rosado de Christenson, MD</i>						

MEETING OVERVIEW

"I attend the Annual Meeting to see old friends, to top off my CME, and to really just have fun. It's a great meeting."

—Ruth Carlos, MD

Learning Outcomes

- Translate science and clinical case information into a deeper knowledge and comprehension of both the practice and science of radiology.
- Examine and evaluate future directions in radiological imaging and patient therapy from both the latest research and clinical perspectives.
- Describe the latest indications and applications of imaging techniques and their impact on patient care.
- Improve hands-on skills in ultrasound imaging.
- Identify clinical content that will be applicable to performance improvement.
- Comprehend practice-based

strategies for mitigating errors and improving patient safety.

- Identify clinical and non-interpretive skills content that would be applicable to practice performance improvement.
- Understand the role and value of the radiologist in the diagnosis and treatment of patients.
- Analyze opportunities to improve care coordination with referring physicians.

Subspecialty Tracks

- Abdominal Imaging
- Breast Imaging
- Cardiac Imaging
- Chest Imaging
- Emergency Radiology
- Musculoskeletal Imaging
- Neuroradiology
- Nuclear Medicine
- Pediatric Imaging
- Ultrasound
- Vascular and/or Interventional Radiology

Featured Tracks

Resident Track

This track will highlight content of particular value to in-training radiologists and will represent a variety of subspecialty domains, non-interpretive skills, and physics.



The ARRS Annual Meeting offers courses that are approved as part of the Academy of Radiology Leadership and Management Program. Find approved ARLM courses at www.arrs.org/meeting.

Non-Interpretive Skills

This track will highlight content of critical importance to physicians who are seeking how to interpret the non-interpretive skills portions of the new American Board of Radiology Board Exams. It will also help physicians address patient safety, ethics, performance improvement, and regulatory challenges.



EDUCATIONAL CREDIT INFORMATION

CONTINUING MEDICAL EDUCATION (CME) CREDITS

ARRS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education activities for physicians. ARRS has received the highest level of accreditation, Accreditation with Commendation.

ARRS designates this live educational activity for a maximum 50 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

American Board of Radiology

ARRS has “Deemed Status” with the American Board of Radiology Maintenance of Certification Program. Certain activities in this meeting are also qualified by the American Board of Radiology in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.



SAM Credits

SAM credits and SA-CME credits both fulfill MOC Part II requirements for the ABR. The 2015 Annual Meeting offers both SAM and SA-CME credits to give attendees the maximum possible credits for Part II requirements. Our live courses that offer Part II credit are marked in the schedule as SAMs. This meeting offers 46.5 hours of SAM credit through courses and select Electronic Exhibits offer SA-CME credit.

INTERNATIONAL CONTINUING EDUCATION CREDITS

European Union and European Union of Medical Specialists

European physicians can earn their ECMEC®s by attending ARRS 2015 Annual Meeting, a live event that has been certified for *AMA PRA Category 1 Credits™*. *The UEMS-EACCME® and the AMA recognize each other's CME credits since 2000.* European physicians attending a USA accredited event will have their credits recognized in Europe.

Royal College of Physicians and Surgeons of Canada

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert *AMA PRA Category 1 Credits™* to Royal College MOC Section 1 credits for live face-to-face learning.

Royal Australian and New Zealand College of Radiologists (RANZCR)

ARRS is an authorized CPD provider for imaging conferences. *1 AMA PRA Category 1 Credit™* is equivalent to 1 RANZCR CPD Point and can be claimed in the RANZCR Clinical Radiology CPD Program.

“The Annual Meeting has so many rich offerings, you can pretty much get anything you’re looking for—whether it’s to supplement something you already know or learn something new.” —Deborah Baumgarten, MD



FEATURED EVENTS

BREAST IMAGING GREAT DEBATE: SCREENING MAMMOGRAPHY CONTROVERSIES

Sunday, April 19, 8:00–10:00 am



Charles E. Kahn Jr., MD, MS
*Professor and Vice Chair of Radiology,
University of Pennsylvania
Debate Moderator*



Cornelia J. Baines MD, MSc, FACE
*Professor Emerita, Dalla Lana Faculty of Public
Health, University of Toronto*



Daniel Kopans, MD
*Professor of Radiology, Harvard Medical School,
Senior Radiologist, Breast Imaging Division,
Department of Radiology, Massachusetts General
Hospital, Avon Comprehensive Breast Evaluation
Center*



Paula Gordon OBC, MD, FRCPC, FSBI
*Clinical Professor, University of British Columbia
Medical Director, Sadie Diamond Breast Program, BC
Women's Hospital*



Anthony Miller, MD
*Director, Canadian National Breast Screening Study,
Professor Emeritus, Dalla Lana School of Public
Health, University of Toronto*

The controversies regarding the benefits and potential harms of screening mammography rages on spurred in part by the recent Canadian study that raised serious questions about the value of such screening. Listen first-hand to the authors and critics of the recent Canadian study and judge for yourself whether recommendations regarding routine mammography screening should or should not be altered.

"An excellent, high-value meeting"

—Anni Brandt, MD

MULTI-DAY COURSES

*A separate registration fee is
required for these courses.*

2015 CATEGORICAL COURSE

The Dark Side of Radiology: Multispecialty After-Hours Imaging

Sun., April 19–Tues., April 21

The 2015 Categorical Course concentrates on key issues faced daily by trainees, emergency radiologists, and general radiologists alike in dealing with patients who are acutely injured or ill. A wide range of subspecialties will be covered, including neuroradiology, musculoskeletal imaging, cardiothoracic imaging, pediatric imaging, gastrointestinal imaging, genitourinary imaging, and interventional radiology. *See page 10 for more information.*

An Approach to Diagnosis: A Case-Based Imaging Review Course

Tues., April 21–Fri., April 24

This comprehensive, practice-based course will cover common topics in 11 radiology disciplines presented in a case-based format. Each case will be presented with an unknown diagnosis for audience self-assessment. Each discipline will contain relevant, non-interpretive topics in physics, management, and quality, and—new this year—will include two mini-didactic sessions on hot and timely topics within the subspecialty. *See page 12 for more information.*

Business Seminar: How the Radiologist Adds Value

Sunday, April 19
10:00 am–12:00 noon

Upon completion of this program, the participant should understand how radiology participates in the health care value chain. Attendees should understand how radiology decision support, social media, structured reporting, and measurement of value-added activities fit in the context of today's health care business environment.

Stroke Imaging: Latest Clinical Advances, Patient Safety, and Policy

*Presented in cooperation
with the American Society of
Neuroradiology*

Sunday, April 19, 1:00–3:00 pm

The options for imaging evaluation of patients with stroke are manifold, still evolving, and vary depending upon the timing of presentation of the patient. This course addresses issues surrounding which modality to use for a person suspected of having a stroke and will address and lend guidance for how best to assist clinicians in determining diagnosis and therapies.

Education Seminar: Teaching to the New Generation

Sunday, April 19
10:00 am–12:00 noon

Gain efficiency and develop new methods for your classroom. This seminar will focus on new educational applications, the best educational papers, and how to get promoted.

SRS Guest Speaker Program: Interventional Radiology from Curiosity to the Main Stream

Monday, April 20, 5:00–5:45 pm

Hear Dr. William Casarella speak on the early pioneers and how their work led to a revolution in patient care. CME credit is not provided for this session.

Non-Interpretive Skills Part 1 and 2:

Quality and Safety in Radiology

Tuesday, April 21, 1:00–3:00 pm

Gain basic knowledge of the history and aims of the Quality and Safety movement in radiology, the basic terminology, definitions, and methods, and understand the role of organizational culture.

**Advanced Quality and Safety
in Radiology**

Tuesday, April 21, 3:30–5:30 pm

Participate in an advanced session for physician educators to develop and enhance your expertise in Quality and Safety and related research.



ARRS Global Exchange

ARRS is honored to present the Global Exchange featuring Taiwan. Look for the GPS logo for designated courses, which include renowned radiologists from Taiwan.

Learn more about the Global Exchange at www.arrs.org/Meeting.



***"The Annual Meeting
is a real prize."***

—Richard Gunderman, MD

2015 CATEGORICAL COURSE

THE DARK SIDE OF RADIOLOGY: MULTISPECIALTY AFTER-HOURS IMAGING

Sunday, April 19–Tuesday, April 21

This course concentrates on key issues faced daily by trainees, emergency radiologists, and general radiologists alike in treating acutely ill or injured patients. Lectures will cover a variety of subspecialties and include:

- State-of-the-art imaging techniques
- Data from clinical practice guidelines and peer-reviewed data
- Expert suggestions for best practice in image interpretation and communication
- Operational and logistical issues in emergency healthcare
- Protocol and practice standards in diagnostic and interventional radiology
- And more

Learning Outcomes

Upon completion of this course, participants will possess the knowledge and skills to:

- Make the correct diagnosis confidently in dealing with ill patients.
- Give a differential diagnosis, when necessary, and suggest the best management strategy.
- Apply practice-based strategies for optimizing patient outcomes.
- Describe systems barriers to improving diagnoses and patient outcomes.
- Analyze personal peer-reviewed data, define performance improvement strategies, and test those strategies in practice.



Registration

Due to the nature and granularity of this course, a separate registration fee is required in addition to your Annual Meeting registration fee.

Additional Registration Fees	ARRS Member	Nonmember
Categorical Course + Book	205 USD	405 USD

Earn 20 CME and SAM Credits

ARRS designates this live educational activity for a maximum 20 *AMA PRA Category 1 Credits™*. This activity is also qualified by the American Board of Radiology® in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



INCLUDED WITH COURSE REGISTRATION!

Each registrant will receive a book with a chapter for each scheduled presentation.

IN TORONTO OR ONLINE

CATEGORICAL COURSE SCHEDULE

SUNDAY, APRIL 19, 2015	
7:30–9:30 AM ACUTE CHEST PAIN	
Moderator: Don Yoo, MD	
Nuclear Variants and Pitfalls in the Patient With Chest Pain	Don Yoo, MD
Cardiothoracic Imaging Pearls and Pitfalls	Smita Patel, MD
The Triple Rule Out—Protocols and Pitfalls	Diana Litmanovitch, MD
Cross-Sectional Imaging in the Diagnosis of Acute Aortic Syndrome	Costa Raptis, MD
10:00 AM–12:00 NOON ABDOMEN	
Moderator: Christine Menias, MD	
Imaging Gastric Bypass Patients: What You Don't Want to Miss	Christine Menias, MD
Imaging the Elderly Patient With Abdominal Pain	Bettina Siewert, MD
Imaging Hepatosplenic Emergencies	Stephan Anderson, MD
Transplant Evaluation—What Not to Miss	Shweta Bhatt, MD
1:00–3:00 PM WOMENS IMAGING	
Moderator: Deborah Baumgarten, MD	
Acute Pelvic Pain	Sandra Allison, MD
Imaging A Woman With Abnormal Uterine Bleeding	Deborah Baumgarten, MD
Where's the Baby? First Trimester Emergencies	Katherine M. Richman, MD
Postpartum Bleeding and Pain	Phyllis Glanc, MD
3:30–5:30 PM QA-MISSED ED CASES	
Moderator: Martin Smith, MD	
Oops And Uh-Ohs Of Fetal Imaging in the Second and Third Trimesters	Teresita Angtuaco, MD
Lessons from Abdominal MR in the ED : The Pregnant Appy MRI	Martin Smith, MD
Avoiding Misdiagnosis of Acute GI Tract Pathology at CT	Perry Pickhardt, MD
Vascular Ultrasound Pitfalls and Mimics	Nirvikar Dahiya, MD
MONDAY, APRIL 20, 2015	
7:30–9:30 AM NEURORADIOLOGY	
Moderator: Jonathan Kruskal, MD	
The Unconscious Patient	Carlos Torres, MD
The Worst Headache—How Imaging Helps	Sean Symons, MD
Stroke and TIA—What You Need to Look for	Achala Vagal, MD
H&N Infections "Don't Forget the ABC's!"	Christine Glastonbury, MD
10:00 AM–12:00 NOON MUSCULOSKELETAL	
Moderator: Laura Bancroft, MD	
Imaging the "Urgent" Spine	Cynthia Chin, MD
MRI of Acute and Not-So-Cute Injuries: Knee to Ankle	Daniel Wessell, MD
Shoulder and Hip Injuries for the After-Hour Imager	Jim Wu, MD
Imaging Workup of the Painful Joint	Laura Bancroft, MD

Course Directors: Jonathan Kruskal, MD, Christine Menias, MD, and Kumaresan Sandrasegaran, MD

1:00–3:00 PM PEDIATRICS	
Moderator: Janet Reid, MD	
Sports Injuries in Teenagers	Victor Ho-Fung, MD
Imaging the Sick Neonate	Janet Reid, MD
The Child with Difficulty Breathing: Top 10 Diagnoses	Edward Lee, MD
Imaging the Child with Abdominal Pain	Sudha Anupindi, MD
3:30–5:30 PM QA-MISSED ED CASES	
Moderator: Ania Kielar, MD	
Pediatrics Cases You Don't Want to Miss	Lynn Fordham, MD
Musculoskeletal Interpretive Errors that We Can Learn From	Eric England, MD
MR Problem Solving for Challenging Neuro Cases Seen on CT	Kathleen Tozer Fink, MD
Abdominal Errors in the ED—A Canadian Perspective	Ania Kielar, MD
TUESDAY, APRIL 21, 2015	
7:30–9:30 AM VASCULAR AND/OR INTERVENTIONAL RADIOLOGY	
Moderator: Muneeb Ahmed, MD	
Vascular Interventional Radiology What Went Wrong Today?—The IR Patient Returns	Muneeb Ahmed, MD
The Ablation Patient Returns: Complications of Thermal Ablation	Meghan Lubner, MD
The Gastrointestinal Bleeder—Where Do We Start?	Kelvin Hong, MD
Pesky and Pertinent IR Questions After Hours	Ian Brennan, MD
10:00 AM–12:00 NOON ACUTE CARE	
Moderator: Kumaresan Sandrasegaran, MD	
Imaging for Right Upper Quadrant Pain	Alison Harris, MD
The Acute Scrotum	Therese Weber, MD
The Acutely Jaundiced Patient	Michael Blake, MD
Oncologic Emergencies: What the Radiologist Needs to Know	Kumaresan Sandrasegaran, MD

"Roentgen Ray has never failed to be new and create new context and new connections that have been of benefit."

—Christopher Straus, MD



An Approach to Diagnosis: A CASE-BASED IMAGING REVIEW

Tuesday, April 21–Friday, April 24

This all-encompassing course is a unique opportunity for radiologists at all levels, from training to those practicing for years, to learn about and refresh themselves on common topics in 11 radiology subspecialties presented in a case-based format. 176 cases will be featured and each case will be presented with an unknown diagnosis for audience self-assessment. The cases allow for the presentation of common diagnoses and ones that are less common but still important. Each discipline will also contain relevant non-interpretive topics in physics, management, and quality.

Learning Outcomes

Upon completion of this course, participants will possess the knowledge and skills to:

- Develop differential diagnoses for conditions in 11 radiology subspecialties.
- Recognize the imaging and clinical features that allow for refinement of differential diagnosis allowing for a more specific diagnosis.
- Recognize some commonly encountered imaging artifacts in the subspecialties, describe why they occur and techniques to avoid them.
- Confidently make management decisions affecting a variety of commonly encountered clinical scenarios.

New this year!

Each discipline will present two mini-didactic sessions on hot and timely topics within the subspecialty discipline to update you on key topics you can take back to your practice.



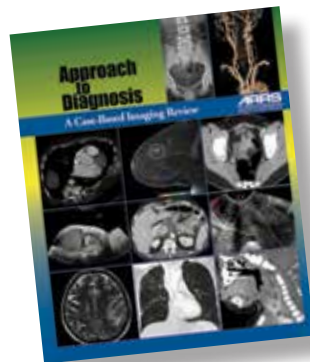
Registration

Due to the nature and granularity of this course, a separate registration fee is required in addition to your Annual Meeting registration fee.

Additional Registration Fees	ARRS In-Training Member	ARRS Member	Nonmember
Case-Based Imaging Review + Book	105 USD	205 USD	405 USD

Earn 22 CME and SAM Credits

ARRS designates this live educational activity for a maximum 22 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity. This activity is also qualified by the American Board of Radiology® in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.



INCLUDED WITH COURSE REGISTRATION!

Each registrant will receive a book with a chapter for each scheduled presentation.



CASE-BASED IMAGING REVIEW COURSE SCHEDULE

Course Directors: Sanjeev Bhalla, MD and Lonie Salkowski, MD

TORONTO AND ONLINE

TUESDAY, APRIL 21, 2015		
VASCULAR AND/OR INTERVENTIONAL RADIOLOGY		
3:30–4:00 pm	TIPS, Portal Hypertension and Gastrointestinal Bleeding	Sailen Naidu, MD
4:00–4:20 pm	Arterial Disease	J. Mark McKinney, MD
4:20–4:40 pm	Venous Disease	Elizabeth Ignacio, MD
4:40–5:00 pm	Non-Vascular Disease	Matthew Gipson, MD
5:00–5:20 pm	Interventional Oncology	Nael Saad, MD
5:20–5:30 pm	Question and Answer	

WEDNESDAY, APRIL 22, 2015		
GASTROINTESTINAL IMAGING		
7:30–8:00 am	Disorders in the Liver, Hepatic Lesion Characterization	Peter Liu, MD
8:00–8:20 am	Spleen	Myra Feldman, MD
8:20–8:40 am	Pancreas	Neil Hansen, MD
8:40– 9:00 am	Mesentery and Peritoneum	Ryan O'Malley, MD
9:00–9:20 am	Small Bowel	Shane Wells, MD
9:20–9:30 am	Question and Answer	
GENITOURINARY IMAGING		
10:00–10:30 am	Hysterosalpingography, Renal Cell Carcinoma	Courtney Moreno, MD
10:30–10:50 am	Female Pelvis	Sarah Erickson, MD
10:50–11:10 am	Male Pelvis	Matt Heller, MD
11:10–11:30 am	Kidneys/Collecting System	Frederico Souza, MD
11:30–11: 50 am	Retroperitoneum	Mitch Gulati, MD
11:50 am–12:00 noon	Question and Answer	
BREAST IMAGING		
1:00–1:30 pm	BI-RADS Update, High Risk Lesions	Tanya Moseley, MD
1:30–1:50 pm	Calcifications	Jennifer Kohr, MD
1:50–2:10 pm	Breast Ultrasound	Habib Rahbar, MD
2:10–2:30 pm	Breast MRI	Deanna Lane, MD
2:30–2:50 pm	Breast Masses	Colleen Neal, MD
2:50–3:00 pm	Question and Answer	
NEURORADIOLOGY		
3:30–4:00 pm	Diffusion Tensor Imaging (DTI), MR Perfusion	Sumit Pruthi, MD/ Megan Strother, MD
4:00–4:20 pm	Brain	Megan Strother, MD
4:20–4:40 pm	Spine	Frank Minja, MD
4:40–5:00 pm	Head and Neck	Kristen Baugnon, MD
5:00–5:20 pm	Trauma	Kathleen Fink, MD
5:20–5:30 pm	Question and Answer	

THURSDAY, APRIL 23, 2015		
ULTRASOUND		
7:30–8:00 am	Doppler Artifact, Ovarian Torsion	Deborah Rubens, MD/ Shweta Bhatt, MD
8:00–8:20 am	Gynecology	Mindy Horrow, MD
8:20–8:40 am	Small Parts	Nirvikar Dahiya, MD
8:40–9:00 am	Obstetrics	Anne Kennedy, MD
9:00–9:20 am	Vascular	Deborah Rubens, MD and Shweta Bhatt, MD
9:20–9:30 am	Question and Answer	
MUSCULOSKELETAL ULTRASOUND, MUSCULOSKELETAL CT		
10:00–10:30 am	MSK Ultrasound, MSK CT	Daniel Wessell, MD
10:30–10:50 am	Neoplastic	Emily Vinson, MD
10:50–11:10 am	Rheumatologic	Jason Stephenson, MD
11:10–11:30 am	Traumatic	Jenni Pierce, MD
11:30–11:50 am	Metabolic/Hematologic	Jon Baker, MD
11:50 am–12:00 noon	Question and Answer	
PEDIATRIC IMAGING		
1:00–1:30 pm	Neonatal Bowel Obstruction, Intussusception	Stephanie DiPerna, MD
1:30–1:50 pm	Pediatric Musculoskeletal	Janet Reid, MD
1:50–2:10 pm	Pediatric Neuroradiology	Yutaka Soto, MD
2:10–2:30 pm	Pediatric Genitourinary	Kate Feinstein, MD
2:30–2:50 pm	Pediatric/Chest/Cardiovascular	Jason Tsai, MD
2:50–3:00 pm	Question and Answer	
CHEST IMAGING		
3:30–4:00 pm	Update on Interstitial Lung Disease, Solitary Pulmonary Nodules	Jonathan Chung, MD
4:00–4:20 pm	Mediastinum	Christopher Walker, MD
4:20–4:40 pm	Diffuse Nodular Lung Disease	Stephen Hobbs, MD
4:40–5:00 pm	Large Airway Disease	Christian Cox, MD
5:00–5:20 pm	Air Space Disease	Kathryn Olsen, MD
5:20–5:30 pm	Question and Answer	

FRIDAY, APRIL 24, 2015		
NUCLEAR MEDICINE		
7:30–8:00 am	Nuclear Medicine Treatments, Radiotracers	Eric Rohren, MD
8:00–8:20 am	PET/CT	David Naeger, MD
8:20–8:40 am	Endocrine /Thoracic	Vasantha Aaron, MD
8:40–9:00 am	Whole Body Imaging	Jonathan McConathy, MD
9:00–9:20 am	Abdominal	Spencer Behr, MD
9:20–9:30 am	Question and Answer	
CARDIOVASCULAR IMAGING		
10:30–11:00 am	Anomalous Coronary Arteries, Delayed Contrast Enhanced Cardiac MR	Kristopher Cummings, MD
11:00–11:20 am	Coronary and Pericardium	Jared Christensen, MD
11:20–11:40 am	Myocardial	Karen Ordovas, MD
11:40 am –12:00 Noon	Valves	Amar Shah, MD
12:00 noon– 12:20 pm	Great Vessels	Travis Henry, MD
12:20–12:30 pm	Question and Answer	

"This meeting is the most useful available because it covers so much ground."

—John W. Little, MD

ONLY IN TORONTO!

"My favorite aspect was the ability to obtain high quality CME on a variety of topics at a single conference, and for a reasonable price."

—Anni Brandt, MD

ELECTRONIC EXHIBITS WITH CME AND SA-CME

ARRS Electronic Exhibits are visual, computer-based presentations across 11 subspecialties. These exhibits will be hosted in a dedicated room at the meeting in Toronto where registrants can explore scientific and educational topics to find late-breaking research, refresh their core diagnostic skills, and enhance their diagnostic acumen. Award-winning Electronic Exhibits from ARRS Global Partners will also be featured.

Select Electronic Exhibits will be designated for SA-CME and AMA PRA Category 1 Credit™. Attendees seeking CME and SA-CME will be required to complete questions related to the exhibits in order to be eligible.

Learning Outcomes

- Translate science and clinical case information into a deeper knowledge and comprehension of both the practice and science of radiology.
- Examine and evaluate future directions in radiological imaging and patient therapy from both the latest research and clinical perspectives.
- Apply core diagnostic and image interpretation skills to specific disease conditions.
- Appraise, integrate, and apply evidence from scientific studies related to the health conditions of patients.

Electronic Exhibit Hours

Sunday, April 19–Thursday, April 23, 6:30 am–7:00 pm

Friday, April 24, 6:30 am–12:00 noon



MORE THAN 500 EXHIBITS | MANY OFFERING CME AND SA-CME CREDIT OPPORTUNITIES



COMMERCIAL EXHIBIT HALL

The ARRS Annual Meeting will host a unique Exhibit Hall combining breaks, healthcare technology, networking, and learning. The ARRS Exhibit Hall is your central gathering place to discover the latest technology and devices available to the profession; socialize with colleagues, leaders, and friends; eat lunch or grab a beverage; test your knowledge with the Case of the Day; and check out the latest ARRS offerings at the ARRS booth.

Complimentary Lunches and Beverage Breaks

The Exhibit Hall will feature morning and afternoon beverage breaks, along with lunches, Monday, April 20–Wednesday, April 22, so that attendees can make the most of their time and network with industry leaders and professional experts.

ARRS BOOTH

This is a great opportunity to talk with ARRS staff and learn more about member benefits and the latest offerings from the Society.

CASE OF THE DAY

Test your knowledge and skill to diagnose 28 cases using this interactive learning tool featured in the Exhibit Hall.

Commercial Exhibit Hours

Monday, April 20
& Tuesday, April 21
9:15 am–4:00 pm

Wednesday, April 22
9:15 am–1:00 pm



"I never leave the Meeting without having new ideas to explore and new research to pursue."

—Christopher Straus, MD

LUNCH IS ON US!



VIRTUAL MEETING

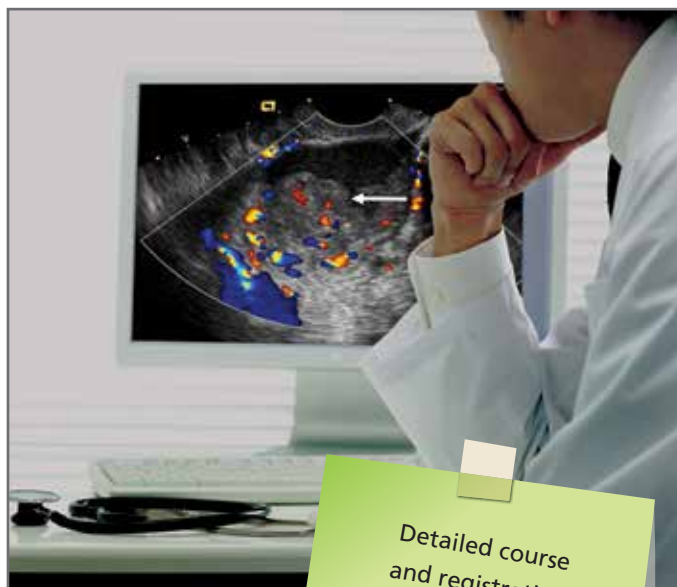
CAN'T COME TO TORONTO? PARTICIPATE ONLINE!

The ARRS Virtual Meeting will present online, live streaming of select Annual Meeting courses and special events as they take place in Toronto. Participate from your home or office, ask questions of faculty online, and earn CME and SAM credits. Virtual participants will also receive access to free recordings until May 15 to refresh their knowledge after earning credit.

Register for the Virtual Meeting at www.arrs.org/Meeting!

Virtual Offerings

- The 2015 Categorical Course—The Dark Side of Radiology: Multispecialty After-Hours Imaging
- Breast Imaging Great Debate: Screening Mammography Controversies
- An Approach to Diagnosis: A Case-Based Imaging Review
- Pediatric Neck Masses and Inflammation
- First Trimester and Gynecologic Ultrasound
- MRI Elbow Injuries
- Quality and Safety in Radiology
- Pitfalls in PET-CT Imaging
- The Brain: An Anatomy Primer
- Breast Tomosynthesis
- Cross-sectional Genitourinary Imaging
- Musculoskeletal Imaging: Knee - How I Do It
- Congenital Heart Disease
- Imaging Evaluation of Musculoskeletal Injuries
- And more Instructional Courses



Detailed course and registration information is available at www.arrs.org/meeting

Registration Information

The early-bird deadline for the Virtual Meeting is Friday, February 6, 2015, and the pre-registration deadline is Friday, April 3, 2015. After April 3, no Virtual Meeting registrations will be accepted.

You may use the Virtual Meeting registration form at www.arrs.org/meeting or register online for the Virtual Meeting.

EARN CME AND SAM CREDITS

ASK QUESTIONS AND INTERACT LIVE WITH FACULTY

ACCESS FREE RECORDINGS

**DON'T MISS THE 2015
CATEGORICAL COURSE**

***The Dark Side of Radiology:
Multispecialty After-Hours
Imaging, Sunday, April 19–
Tuesday, April 21***



***"It is one of my favorite
meetings, it's so accessible."***

—Deborah Baumgarten, MD

SUNDAY, APRIL 19

8:00 am - 10:00 am

Breast Imaging Great Debate: Screening Mammography Controversies

*C. Kahn, C. Baines, D. Kopans,
P. Gordon, A. Miller*

Tracks: BR

2 CME credits, 2 SAM credits **SAM**

9:30 am - 10:00 am BEVERAGE BREAK

10:00 am - 12:00 noon

Business Seminar: How the Radiologist Adds Value

K. Buckwalter, S. Halabi, J. Eng, J. Berlin, R. Helsper

Tracks: Non-Interpretive Skills

2 CME credits

Education Seminar: Teaching to the New Generation

A. Paladin, A. Kamer, P. Slanetz, K. Shaffer

Tracks: Non-Interpretive Skills

2 CME credits

1:00 pm - 3:00 pm

Stroke Imaging: Latest Clinical Advances, Patient Safety, and Policy

*P. Sanelli, M. Lev, K. Vo, A. Yoo, M. Mahesh, A.
Vagal, C. Lum, B. Wasserman, A. Gupta, Y. Qiao,
J. Hirsch, D. Yousem, J. Mocco, M. Lev.*

Tracks: NR

2 CME credits

3:00 pm - 3:30 pm

BEVERAGE BREAK

3:30 pm - 4:30 pm

Radiology Year in Review

A. Ha, A. Rosenkrantz, M. Castillo

Tracks: ED

1 CME credit

5:45 pm - 7:15 pm OPENING CEREMONIES

WWW.ARRS.ORG/MEETING

MONDAY, APRIL 20

7:00 am - 8:00 am

POWER HOUR: Neuroradiology, 1 CME credit

POWER HOUR: Chest Imaging, 1 CME credit

8:30 am - 10:00 am

IC101. SPECT CT in Cardiac, Bone, and Endocrine Disorders

K. Banks, M. Osman, A. Sheikh

Tracks: NM

1.5 CME credits

IC102. Skull Base Imaging: Anatomy, Pearls, and Pitfalls

A. Srinivasan, T. Kennedy, R. Khan

Tracks: NR, Resident

1.5 CME credits

IC103. Optimizing Outcomes in Interventional Oncology

D. Madoff, S. Kee,

J. McWilliams, R. Lee

Tracks: VI

1.5 CME credits



IC104. SPN and Lung Cancer: Update in Classification, Morphology and Staging

B. Carter, M. Godoy, J. Ko

Tracks: CH, Resident

1.5 CME credits

SS01. Efficacy/Administration/Informatics

1.5 CME credits

SS02. General and Emergency Radiology

1.5 CME credits

9:30 am - 10:30 am BEVERAGE BREAK

10:30 am - 12:00 noon

IC105. Pediatric Neck Masses and Inflammation

K. Koral, J. Nixon, U. Udayasankar

Tracks: PD, Resident

1.5 CME credits, 1.5 SAM credits



IC106. Essentials of Endoscopic Sinus Surgery Imaging

M. Michel, D. Shatzkes

Tracks: NR

1.5 CME credits

IC107. First Trimester and Gynecologic Ultrasound

O. Baltarowich, L. Scoutt, D. Wolfman

Tracks: US

1.5 CME credits, 1.5 SAM credit



IC108. HRCT Basics

K. Cummings, B. Little, D. Manos

Tracks: CH

1.5 CME credits

SS03. Efficacy/Administration/Informatics

1.5 CME credits

SS04. Gastrointestinal Imaging

1.5 CME credits

12:00 noon - 1:00 pm LUNCH IN EXHIBIT HALL

1:30 pm - 3:00 pm

IC109. Malpractice Update 2015

L. Berlin

Tracks: Non-Interpretive Skills

1.5 CME credits

IC110. Reversible Vascular Syndromes and Venous Thrombosis

A. Vagal, J. Leach

Tracks: NR

1.5 CME credits

IC111. Musculoskeletal Sonography

K. Lee, R. Adler, S. Teefey

Tracks: US

1.5 CME credits

IC112. HRCT Advanced: Sorting Fibrosis, Acute Lung Injury

C. Meyer, J. Kanne, B. Elicker

Tracks: CH, Resident

1.5 CME credits

SS05. Nuclear Medicine, 1.5 CME credits

SS06. Efficacy/Administration/Informatics

1.5 CME credits

3:00 pm - 3:30 pm BEVERAGE BREAK

3:30 pm - 5:00 pm

IC113. Publications Ethics and Optimizing Manuscripts for Acceptance in AJR

T. Berquist

Tracks: Non-Interpretative Skills

1.5 CME credits

IC114. Update on Radiotherapies

L. Gordon, D. Metter, D. Yoo

Tracks: NM

1.5 CME credits

IC115. Ultrasound of the Lower Extremity

D. Blankenbaker, Y. Morag, C. Yablon

Tracks: MK

1.5 CME credits

IC116. Forensic Abdominal Imaging

B. Daly, H. Harcke

Tracks: GI

1.5 CME credits

IC117. Essentials of Neck Sonography

E. Bluth, S. Bhatt, Y. Wan

Tracks: US, Resident

1.5 CME credits



IC118. Cardiac and Coronary CT Basics

J. Jacobs, S. Patel, F. Rybicki

Tracks: CA

1.5 CME credits

5:00 pm–5:45 pm

**SRS Guest Speaker Program:
Interventional Radiology from Curiosity
to the Main Stream**

W. Casarella

**CAN'T COME
TO TORONTO?**

*Register to participate
in the Virtual Meeting.
Connect with faculty and
earn credit during live
streaming sessions.*

TUESDAY, APRIL 21

7:00 am–8:00 am

POWER HOUR: Gastrointestinal Imaging, 1 CME credit

POWER HOUR: Musculoskeletal Imaging, 1 CME credit

8:30 am–10:00 am

IC201. PET-CT in Evaluation of Dementia and CNS Tumors

P. Kuo, T. Wong, E. Rohren

Tracks: NM

1.5 CME credits

IC202. MRI Elbow Injuries

F. Simeone, N. Chauvin, J. Peterson,

W. Palmer

Tracks: MK

1.5 CME credits, 1.5 SAM credits **SAM**

IC203. Imaging of the Pleura, Chest Wall and Diaphragm

J. Bueno, J. Lichtenberger, J. Alegria

Tracks: CH

1.5 CME credits, 1.5 SAM credits **SAM**

PHY01. Artifacts and Physics in Daily Imaging Practice: A Case-Based Approach—Part 1

A. Paladin, R. Gupta, R. Kaza,

K. Sandrasegaran, W. Weadock

Tracks: NM, Resident

1.5 CME credits, 1.5 SAM Credit **SAM**

SS07. Neuroradiology, 1.5 CME credits

SS08. Efficacy/Administration/Informatics

1.5 CME credits

9:30 am - 10:30 am BEVERAGE BREAK

10:30 am - 12:00 noon

PHY02. Artifacts and Physics in Daily Imaging Practice: A Case-Based Approach - Part 2

T. Dubinsky, M. Kliewer, S. Behnia, S. Javadi

Tracks: NM

1.5 CME credits, 1.5 SAM credit **SAM**

IC204. Radiologist: Prenatal, Postnatal Obstetric Management

T. Angtuaco, P. Glanc

Tracks: US

1.5 CME credits

IC205. Coronary and Non Coronary Cardiac CTA

J. Earls, S. Abbara, R. Gilkeson

Tracks: CA

1.5 CME credits

IC206. Conundrums: Musculoskeletal Masses, Mass-Like Lesions

G. DiPrimio, S. Bernard, M. Kransdorf

Tracks: MK

1.5 CME credits

IC207. PET-CT in Abdominal Malignancies

E. Akin, M. Nathan, R. Zeman

Tracks: NM

1.5 CME credits

SS09. Gastrointestinal Imaging, 1.5 CME credits

12:00 noon -1:00 pm LUNCH IN EXHIBIT HALL

1:00 pm - 3:00 pm

QS101. Quality and Safety in Radiology

M. Bruno, M. Parker, E. Walker,

H. Abujudeh, N. Kadom

Tracks: Non-Interpretive Skills

2 CME credits, 2 SAM credits **SAM**

1:30 pm - 3:00 pm

IC208. The 3 Ms: What Do I Need to Know?

M. Mulligan, T. Miller, C. Gaskin

Tracks: MK

1.5 CME credits

IC209. The Rise of Mannerism in Radiology

R. Gunderman, D. Seidenwurm

Tracks: Non-Interpretive Skills

1.5 CME credits

IC210. Neck, Gland Masses and Mysteries

C. Glastonbury, C.D. Phillips, Y. Anzai

Tracks: NR

1.5 CME credits

IC211. The Mediastinum: Radiographic, CT and MR Evaluation

R. Shah, R. Madan, T. Healey

Tracks: CH

1.5 CME credits

WEDNESDAY, APRIL 22

SS10. Breast Imaging, 1.5 CME credits

SS11. Gastrointestinal Imaging, 1.5 CME credits

3:00 pm - 3:30 pm BEVERAGE BREAK

3:30 pm - 5:00 pm

IC212. Mistakes We Make in Practice and How to Deal With Them Appropriately
R. Eisenberg, M. Bruno
 Tracks: Non-Interpretive Skills
 1.5 CME credits

IC213. Imaging of Iatrogenic Abdominal and Pelvic Conditions
G. Gayer, B. Yeh, D. Katz
 Tracks: GI
 1.5 CME credits

IC214. Breast Density Legislation and Screening
T. Henrichsen, A. Conners
 Tracks: BR
 1.5 CME credits

IC215. Thoracic Vascular Disease
S. Bhalla, S. Martinez-Jiminez, B. Sundaram
 Tracks: CH
 1.5 CME credits

IC216. Ankle Imaging
M. Jesse, W. Morrison, C. Andrews
 Tracks: MK
 1.5 CME credits

IC217. Pitfalls in PET-CT Imaging
K. Zukotynski, M. Seltzer, H. Agress
 Tracks: NM
 1.5 CME credits, 1.5 SAM credits 

3:30 pm - 5:30 pm

QS102. Advanced Quality and Safety in Radiology
M. Willis, J. Duncan, T. Mosher
 Track: Non-Interpretive Skills
 2 CME credits, 2 SAM credits 

IMPROVE YOUR DIAGNOSTIC SKILLS

Evaluate 176 cases across 11 subspecialties in the Case-Based Imaging Review Course, Tuesday, April 21–Friday, April 24.

7:00 am–8:00 am

POWER HOUR: Genitourinary Imaging, 1 CME credit

POWER HOUR: General and Emergency Radiology, 1 CME credit

8:30 am–10:00 am

IC301. The Brain: An Anatomy Primer
A. Smith, M. Shroff, N. Salamon
 Tracks: NR, Resident
 1.5 CME credits, 1.5 SAM credits 

IC302. Breast Radiology-Pathology Correlation
D. Georgian-Smith, T. Lawton
 Tracks: BR, Resident
 1.5 CME credits

IC303. ABR Update: Demystifying the Examinations
M. Guiberteau, V. Mathews, V. Jackson
 Tracks: Non-Interpretive Skills
 1.5 CME credits

IC304. Thoracic Infections
L. Washington, S. Digumarthy, L. Ketai
 Tracks: CH
 1.5 CME credits

SS12. Musculoskeletal Imaging, 1.5 CME credits

SS13. Breast Imaging, 1.5 CME credits

9:30 am - 10:30 am BEVERAGE BREAK

10:30 am - 12:00 noon

IC305. Radiologic Spine Interventions: Practical Tips, Tricks and Traps
J. Chazen, A. Brook, M. Jensen
 Tracks: NR
 1.5 CME credits

IC306. Interpretation Pitfalls in Chest Imaging: Radiography, CTPA and HRCT
C. Wu, A. Hunsaker, S. Kligerman
 Tracks: CH, Resident
 1.5 CME credits

IC307. Breast Tomosynthesis
H. Pan, M. Zuley
 Tracks: BR
 1.5 CME credits, 1.5 SAM credits 

IC308. Avoiding Potential Diagnostic Errors: Thoracic Imaging
M. Parker, R. Groves
 Tracks: Non-Interpretive Skills
 1.5 CME credits

SS14. Musculoskeletal Imaging, 1.5 CME credits

SS15. Chest Imaging, 1.5 CME credits

12:00 noon -1:00 pm LUNCH IN EXHIBIT HALL



1:30 pm - 3:00 pm

- IC309. Shoulder Imaging**
K. Buckwalter, B. Huang, J. Bencardino, C. Chung
 Tracks: MK, Resident
 1.5 CME credits
- IC310. MDCT for Vascular Trauma**
F. Munera, C. Sliker, M. Bernstein
 Tracks: ER, Resident
 1.5 CME credits
- IC311. Problem Solving in Pediatric Emergencies**
P. Karakas, R. Goodman, L. Fenton
 Tracks: PD, Resident
 1.5 CME credits
- IC312. Emergency Abdominal Imaging**
W. Thompson, J. Hines, M. Patlas, M. Moshiri
 Tracks: GI
 1.5 CME credits
- IC313. Cross-Sectional Genitourinary Imaging**
D. Sahani, N. Hindman, A. Rosenkrantz
 Tracks: GU
 1.5 CME credits, 1.5 SAM credits **SAM**
- SS16. Gastrointestinal Imaging, 1.5 CME credits**

3:00 pm - 3:30 pm BEVERAGE BREAK

3:30 pm - 5:00 pm

- IC314. Pitfalls in Musculoskeletal Imaging**
D. Flemming, M. Murphey, K. Davis, C. Chung
 Tracks: MK
 1.5 CME credits
- IC315. Brain Tumors 101**
B. Soares, H. Rowley, S. Mohan
 Tracks: NR
 1.5 CME credits
- IC316. Improving Education: Management of Contrast Reactions**
V. Vartanians, B. Niell
 Tracks: Non-Interpretive Skills, Resident
 1.5 CME credits
- IC317. Pediatric Imaging: Musculoskeletal Pitfalls**
J. MacKenzie, R. Restrepo, M. Dempsey
 Tracks: PD, Resident
 1.5 CME credits
- IC318. Advanced Pancreatic Imaging**
D. Morgan, L. Shin, K. Sandrasegaran, E. Tamm
 Tracks: GI, Resident
 1.5 CME credits
- IC319. PET CT: Imaging Challenges**
D. Naeger, M. Truong, C. Viswanathan
 Tracks: CH, Resident
 1.5 CME credits



THURSDAY, APRIL 23

7:00 am-8:00 am

- POWER HOUR: Breast Imaging, 1 CME credit**
- POWER HOUR: Pediatric Imaging, 1 CME credit**

8:30 am-10:00 am

- IC401. Breast Screening Ultrasound**
R. Hooley, J. Weigert
 Tracks: BR
 1.5 CME credits
- IC402. Hepatic Cross-Sectional Imaging I**
C. Santillan, C. Sirlin, M. Heller
 Tracks: GI
 1.5 CME credits
- IC403. Pitfalls of Pediatric Chest Imaging**
D. Rivard, P. Sagar, N. Mahmood
 Tracks: PD, Resident
 1.5 CME credits
- IC404. Musculoskeletal Imaging: Knee - How I Do It**
H. Rosas, L. White, E. Foss
 Tracks: MK
 1.5 CME credits, 1.5 SAM credits **SAM**
- SS17. Musculoskeletal Imaging, 1.5 CME credits**
- SS18. Neuroradiology, 1.5 CME credits**

9:30 am - 10:30 am BEVERAGE BREAK

10:30 am - 12:00 noon

IC405. Congenital Heart Disease

S. Joon-Yoo, P. Agarwal, L. Haramati

Tracks: CA

1.5 CME credits, 1.5 SAM credits **SAM**

IC406. Pediatric Abdominal Imaging

R. Guillerman, S. Kraus, J. Reid

Tracks: PD

1.5 CME credits

IC407. BI-RADS Updates

M. McDonough, J. Lee

Tracks: BR

1.5 CME credits

IC408. Myocardial Ischemia

J. Leipsic, B. Ghoshhajra, D. Bluemke

Tracks: CA

1.5 CME credits

SS19. Cardiac Imaging, 1.5 CME credits

SS20. Breast Imaging, 1.5 CME credits

1:30 pm - 3:00 pm

IC409. Update on MDCT for Abdominal Trauma

J. Soto, J. Uyeda, M. Patlas, J. Gross

Tracks: ER

1.5 CME credits

IC410. Innovative Approaches to IR Practice

A. Nemcek, R. Hieb, W. Guo

Tracks: VI

1.5 CME credits, 1 SAM credit



IC411. Musculoskeletal-Hip Imaging

M. Bredella, D. Rubin, E. Bogner

Tracks: MK

1.5 CME credits

SS21. Genitourinary - Reproductive/Endocrine

1.5 CME credits

SS22. Vascular/Interventional, 1.5 CME credits

SS23. Musculoskeletal Imaging, 1.5 CME credits

3:00 pm - 3:30 pm BEVERAGE BREAK

3:30 pm - 5:00 pm

IC412. Hepatic Cross-sectional Imaging II

E. Merkle, P. Bhargava, R. Do

Tracks: GI

1.5 CME credits

IC413. Spine Tumors: Secrets to Differential Diagnosis

K. Salzman, A. Flanders, L. Shah

Tracks: NR

1.5 CME credits

IC414. Evaluation of the Post-Surgical Breast

A. Nees, T. Moseley

Tracks: BR

1.5 CME credits, 1.5 SAM credits **SAM**

IC415. Cardiac CT in the Acute Setting and Radiation Issues

B. Little, C. White, N. Paul

Tracks: CA, Resident

1.5 CME credits

SS24. Genitourinary Imaging—Prostate

1.5 CME credits

SS25. Pediatric Imaging, 1.5 CME credits

**LOOKING FOR INDIVIDUAL
SUBSPECIALTY OR TRACK
SCHEDULES?**

*View the individual track
and subspecialty schedules
broken out online at
www.arrs.org/Meeting*



FRIDAY, APRIL 24

7:00 am–8:00 am

POWER HOUR: Vascular/Interventional, 1 CME credit

POWER HOUR: Ultrasound, 1 CME credit

8:30 am–10:00 am

IC501. Imaging the Injured Pediatric Athlete

K. Davis, C. Strickland, L. Ladd

Tracks: MK

1.5 CME credits

IC502. Controversies in Abdominal Imaging

M. Davenport, P. Pickhardt, H. Zafar, R. Lamba

Tracks: GI, Resident

1.5 CME credits

IC503. Non-Coronary Cardiac Imaging

K. Ordovas, J. Stojanovska, G. Gladish

Tracks: CA

1.5 CME credits

IC504. Imaging Evaluation of Musculoskeletal Injuries

O. West, B. Khurana, M. Kumaravel

Tracks: ER

1.5 CME credits, 1.5 SAM credits **SAM**

SS26. Breast Imaging, 1.5 CME credits

SS27. Cardiac Imaging, 1.5 CME credits

9:30 am – 10:30 am BEVERAGE BREAK

10:30 am - 12:00 noon

IC505. Multi-Modality Imaging of the Biliary Tract

R. Zeman, M. Taffel, A. Thabet

Tracks: GI

1.5 CME credits

IC506. Pitfalls in Breast Imaging

A. Lourenco, J. Ritner

Tracks: BR, Resident

1.5 CME credits

IC507. Palliative Procedures in Interventional Radiology

P. Rochon, C. Martin, R. Williams

Tracks: VI

1.5 CME credits

IC508. Musculoskeletal-Core Injuries

P. Robinson, I. Omar, A. Zoga

Tracks: MK

1.5 CME credits

SS28. Genitourinary Imaging —General,

1.5 CME credits

SS29. Vascular/Interventional, 1.5 CME credits



HOTEL AND TRAVEL



THE FAIRMONT ROYAL YORK HOTEL Stay at one of Toronto's historic landmarks—The Fairmont Royal York. Just steps away from its famous doors, in the heart of Canada's largest metropolis, is an exciting mix of activities and attractions. From the theater, entertainment and financial districts, to shopping, sightseeing, and world-class sports facilities, The Fairmont Royal York truly is at the center of it all.

HOTEL RESERVATION DEADLINE Hotel reservations must be made by Friday, March 20, 2015 to qualify for the special ARRS rates. To take advantage of the special ARRS rates, you must register for the Annual Meeting first. All attendees are advised to register for the meeting and make hotel reservations before March 20 because the ARRS discounted hotel room block fills up quickly and we cannot guarantee rooms will be available through March 20. After March 20, any rooms remaining in the ARRS room block will be released and higher rates may apply.

HOTEL LOCATION The Fairmont Royal York is located at: 100 Front Street W, Toronto, Ontario, M5J 1E3, Canada

EXCLUSIVE RATES AT THE FAIRMONT ROYAL YORK HOTEL

Room Types	Single/Double
Fairmont Room	259 CDN
Fairmont View Room	259 CDN
Fairmont Deluxe Room	329 CDN
Suites start from	499 CDN

All hotel rates are quoted in Canadian funds and subject to applicable state and local taxes.

HOTEL CONFIRMATIONS You will receive a confirmation number at the time the hotel reservation is made, along with instructions for making changes to your reservation.

GUARANTEED RESERVATIONS All hotel reservations must be guaranteed with a credit card.

CANCELLATIONS Cancellations must be made twenty-four hours before arrival to avoid a one (1) night room and tax charge. Cancellations to your reservation must be made online until the day of arrival.

CHANGES Changes to your reservation can be made up until the day of arrival. All changes to your reservation must be made online.

QUESTIONS REGARDING HOTEL RESERVATIONS ARRS is not able to answer questions regarding hotel reservations. Contact the hotel directly with questions at 1-866-540-4489 (toll free).

TRAVEL INFORMATION The closest international airport to The Fairmont Royal York is Lester B. Pearson International Airport (YYZ). For guests traveling within Canada and some locations within the United States, the closest airport is Billy Bishop Toronto City Airport (YTZ).

PASSPORT AND VISA INFORMATION For information regarding the documents you will need to enter Canada, please refer to www.CBSA.gc.ca. If you require a letter of invitation from the ARRS for visa purposes, visit www.arrs.org/MeetingInvitation.

DON'T FORGET YOUR PASSPORT!

IN-PERSON REGISTRATION INFORMATION

REGISTER BY
FEBRUARY 6
TO RECEIVE THE
LOWEST RATES!

Register Online

www.arrs.org/meeting

Register by Fax

(703) 729-4839

Register by Mail

ARRS

PO Box 418863

Boston, MA 02125-8863

Questions

Phone: 866-940-2777

or 703-729-3353

Email: meeting@arrs.org

Office Hours:

Monday–Friday

8:30 am–5:00 pm

Eastern Time Zone

Registration for the 2015 Annual Meeting opens December 1, 2014. The early-bird deadline is Friday, February 6, 2015, and the pre-registration deadline is Friday, March 20, 2015. After March 20, registrations will only be processed at the ARRS On-Site Registration Welcome and Information Center in Toronto. Only primary registrants may participate in the educational courses and sessions and enter the Electronic Exhibits area.

Annual Meeting	Early-bird Registration Through February 6	Regular Registration Through March 20	On-Site Registration
ARRS Physician Member	499 USD	599 USD	699 USD
ARRS Emeritus/SRS Members	399 USD	499 USD	599 USD
ARRS In-Training Physician Member	199 USD	299 USD	399 USD
ARRS Technologist or Nurse Member	199 USD	299 USD	399 USD
Nonmember	1,399 USD	1,499 USD	1,599 USD

Additional Registration Fees	ARRS In-Training Member	ARRS Member	Nonmember
Categorical Course	205 USD	205 USD	405 USD
Case-Based Imaging Review	105 USD	205 USD	405 USD
Per Guest Fee	99 USD	99 USD	99 USD

IN-PERSON MEETING CANCELLATION POLICIES

Cancellations received in writing prior to March 20, 2015, will be processed after the meeting minus the \$100 non-refundable cancellation fee. Refunds will not be provided for cancellations for any reason after March 20, 2015. Refund requests of the \$100 cancellation fee will not be considered regardless of the registration category, amount paid or when requested. Submitted registration forms by mail, fax or online serve as acknowledgement and acceptance of these cancellation policies.

ARRS MEMBERSHIP

ARRS membership must be current both at the time of registration for the meeting and during the meeting in order to receive the discounted member registration rates. If membership has lapsed or will lapse between the date of registration and the final date of the Annual Meeting, the registrant must either renew membership or pay the nonmember registration fees.

NONMEMBERS APPLYING FOR ARRS MEMBERSHIP

Nonmembers may apply for ARRS membership and receive the membership registration fee discount. Nonmembers should submit a membership application with the annual meeting registration form by fax or mail prior to March 20 to receive the membership registration fee discount. After March 20, the membership application and annual meeting registration form must be submitted together at the ARRS On-Site Registration Welcome and Information Center in Toronto.

SPECIAL NEEDS

Individuals requiring auxiliary aids or services as identified in the Americans with Disabilities Act should contact ARRS at meeting@arrs.org.

TO APPLY FOR MEMBERSHIP ONLINE

Go to www.arrs.org and click on Membership. Be sure to indicate on the form that you plan to attend the ARRS 2015 Annual Meeting and fax your Annual Meeting registration form to the ARRS at 703-729-4839 after submitting your online application.

DOWNLOAD APPLICATION

Go to www.arrs.org and click on Membership. Send the completed application with your Annual Meeting registration form by fax to 703-729-4839 or mail both documents to: ARRS, 44211 Slatestone Court, Leesburg, VA 20176-5109.

FREQUENTLY ASKED QUESTIONS

Q. Where will the meeting be held?

A. The meeting will be held at the Metro Toronto Convention Centre in Toronto, Ontario, Canada.

Q. What is the pre-registration deadline?

A. To pre-register for the meeting, registration materials must be received in the office at ARRS headquarters by Friday, March 20, 2015. To obtain the best registration rates, plan to register by the early bird deadline of Friday, February 6, 2015. Registrations are processed in the order received.

Q. How do I register after the pre-registration deadline, Friday, March 20, 2015?

A. After March 20, registrations will only be accepted at ARRS On-Site Registration Welcome and Information Center at the Metro Toronto Convention Centre in Toronto, Canada.

Q. Will I receive a registration confirmation?

A. Registration confirmations are emailed to registrants. It is important to provide your email address with your registration materials to ensure receipt of your confirmation and any updates regarding the meeting. Make sure the email address provided is set up to accept messages from ARRS so your annual meeting communications do not go to a SPAM or junk mail folder or are blocked entirely.

Q. What is the cancellation policy?

A. Written requests for cancellation may be sent by email to meeting@arrs.org; by fax to 703-729-4839; or by mail to: ARRS, 44211 Slatestone Court, Leesburg, VA 20176-5109. Written requests for refunds received prior to March 20, 2015, will be processed after the meeting minus a \$100 non-refundable cancellation fee. After March 20, 2015, cancellations will be processed but refunds will not be issued. Cancellations will not be accepted by telephone. Refund requests of the \$100 non-refundable cancellation fee will not be considered regardless of the registration category, amount paid, or when requested. A submitted registration form online, by fax, or mail serves as acknowledgement, acceptance, and agreement of these cancellation policies.

Q. Do I need to register guests for the meeting? What does the guest fee include?

A. Yes, the fee is \$99 per guest and provides entrance to the commercial exhibit hall including lunches (Monday–Wednesday) as well as all beverage breaks throughout the week. Guests are not allowed entry to the educational courses including the fee-based categorical course, case-based imaging review course, and musculoskeletal ultrasound hands-on course nor are they allowed in the electronic exhibits area. Guests are not eligible to claim CME, SAM, SA-CME, or ARLM credits and do not receive any educational materials. Individuals eligible for ARRS membership may not register as a guest and must pay the general registration fee.

Q. Are children's programs or child care available during the meeting?

A. ARRS does not provide children's programs or child care. Please ask your hotel concierge for a list of local companies that offer child care services. For safety reasons security will be notified if children are left unattended in any of the ARRS meeting space areas or public areas of the convention centre.

Q. Does my membership need to be current in order to attend at the ARRS member rate?

A. Yes, your ARRS membership must be current both at the time that you register for the meeting and when you attend the meeting in order to receive the discounted member rate. If your membership has lapsed or will lapse between the date you register and the final date of the Annual Meeting, you must pay your membership renewal or pay the nonmember registration fee before you will be allowed to attend. A submitted registration form online, by fax, or mail serves as acknowledgement, acceptance, and agreement of this policy.

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

A. Absolutely! If you plan to attend the ARRS 2015 Annual Meeting, apply for membership at the same time you submit your annual meeting registration form to ensure your membership status is confirmed and you receive the membership registration discount.

General Educational Information

Needs Sources

Needs sources for ARRS 2015 include peer review information and articles, prior attendee course evaluations, faculty evaluations, clinical practice guidelines, peer reviewed literature, the American Board of Radiology Board Exam templates, and expert defined needs for performance improvement, patient safety, modalities, image interpretation knowledge and skills, science, and communication.

Statement of Need

Increased exposure to and more solid knowledge of interpretation "traps," faults in decision heuristics employed by radiologists, and barriers and limitations surrounding radiological imaging interpretation and communication of test results are critical to improve radiological diagnostic performance and patient outcomes. Enhancing physicians' abilities to assess and distinguish between and amongst common misses and miscues is necessary to reduce errors and help them develop practice-based strategies to reduce errors. A solid understanding of core clinical knowledge and skills across the spectrum of general radiologic services and science as well as those of the sub-specialties of radiological interpretation are important to improving patient outcomes and reducing healthcare costs overall. An understanding of communications issues and system barriers that impede accurate diagnoses are also important as are strategies and tools to overcome barriers in order for radiologists to successfully implement or improve upon practice performance.

Target Audience

The ARRS 2015 Annual Meeting is intended for all professionals involved in radiology with a particular emphasis on radiologists, in training, residents in radiology and other physicians and health professionals involved in the delivery of radiological services.

Summary of Disclosures and Conflict Resolution

ARRS committee members, faculty, staff and other individuals who are in a position to control the content of this activity are required to disclose all relevant financial relationships with manufacturers of commercial products/services. All relevant potential conflicts of interest that are identified are thoroughly vetted through a process that includes course directors and appropriate peer review by education committee chairs/members, for fair balance, scientific objectivity and validity, patient care and safety recommendations. Please note ARRS staff involved with this course have nothing to disclose.

Resolution of Conflicts of Interest

As a provider accredited by the Accreditation Council for Continuing Medical Education (ACCME), the American Roentgen Ray Society (ARRS) must ensure balance, independence, objectivity and scientific rigor in all of its educational activities. Planners, presenters and other contributors, in a position to control CME content are required to disclose to the learning audience all relevant financial relationships he/she or a member of their immediate family may have, occurring within the past 12 months with a commercial interest. A commercial interest is defined by the ACCME as, "any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients." ARRS is committed to providing its learners with high quality activities and materials that promote improvements and quality in health care and not a specific proprietary business or commercial interest. ARRS assesses conflict of interest (COI) with its faculty, planners, managers, staff and other individuals who are in a position to control the content of CME. All relevant potential conflicts of interest that are identified are thoroughly vetted through a process that includes course directors and appropriate peer review by education committee chairs/members, for fair balance, scientific objectivity and clinical validity, and patient care and safety recommendations.

Disclaimer

The information provided at this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

Commercial Support Acknowledgement

This CME activity will potentially be supported by unrestricted medical education grants and in kind supporters. A complete list of supporters will be published in the ARRS meeting program.

PLEASE VISIT **WWW.ARRS.ORG/MEETING** FOR UP-TO-DATE INFORMATION AND TO REGISTER ONLINE.

FEE-BASED COURSES Check the course(s) for which you are registering.	MEMBERS	IN-TRAINING	NONMEMBERS
☐ Sunday, April 19–Tuesday, April 21: Categorical Course: The Dark Side of Radiology: Multispecialty After-Hours Imaging	205 USD	205USD	405USD
☐ Tuesday, April 21–Friday, April 24: Case-Based Imaging Review	205 USD	105 USD	405 USD

SUNDAY, APRIL 19

MONDAY, APRIL 20TUESDAY, APRIL 21

Written requests for cancellation must be received by email, fax, or mail. Written refund requests received prior to March 20, 2015, will be processed after the meeting minus a \$100 non-refundable cancellation fee. After March 20, cancellations will be processed but refunds will not be issued for any reason. Cancellations will not be accepted by telephone. Refund request of the \$100 cancellation fee will not be considered regardless of the registration category and amount paid or when requested. Registrants must be current ARRS members during the meeting to be eligible for member registration discounts. Submitted registration forms by mail, fax, or online serve as acknowledgement and acceptance of these policies.

TUESDAY, APRIL 21 (continued)

WEDNESDAY, APRIL 22THURSDAY, APRIL 23FRIDAY, APRIL 24

7:00 am–8:00 am Power Hours: ☐ Vascular/Interventional OR ☐ Ultrasound

8:30 am–10:00 am ☐ IC501 ☐ IC502 ☐ IC503 ☐ IC504 ☐ SS26 ☐ SS27

10:30 am–12:00 noon ☐ IC505 ☐ IC506 ☐ IC507 ☐ IC508 ☐ SS28 ☐ SS29



115TH ANNUAL MEETING | REGISTRATION INFORMATION

ARRS
TORONTO
Annual Meeting
April 19–24, 2015

REGISTER BY
FEBRUARY 6
TO RECEIVE THE
LOWEST RATES!

Metro Toronto Convention Centre

Where Top Radiologists
COME TO LEARN

FUTURE MEETING DATES

ARRS 2016 Annual Meeting
April 17–22, 2016
Los Angeles Convention Center
Los Angeles, CA

ARRS 2017 Annual Meeting
April 30–May 5, 2017
Hyatt Regency New Orleans
New Orleans, LA

ARRS 2018 Annual Meeting
April 22–27, 2018
Marriott Wardman Park Hotel
Washington, DC

ARRS 2019 Annual Meeting
May 5–10, 2019
Hawaii Convention Center
Honolulu, Hawaii

*"Outstanding lectures
across the spectrum of
radiology."*—J. T. Andrews, MD