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# Meeting Overview

## Sunday, May 2
- **7:30 am–6:00 pm**
  - Categorical course on efficient imaging
- **8:00 am–12:00 noon**
  - Item-writing workshop
- **1:30 pm–5:00 pm**
  - Seminars on education and business and practice management
- **4:30 pm–5:30 pm**
  - SRS guest program
- **6:15 pm–7:30 pm**
  - Presidential address and Gold Medal presentations

## Monday, May 3
- **7:00 am–8:00 am**
  - Power hours on breast imaging and nuclear medicine
- **7:00 am–8:00 am**
  - Power hours on abdominal imaging and vascular and interventional radiology
- **8:00 am–9:30 am**
  - Instructional courses on breast and cardiac imaging, nuclear medicine and vascular and interventional radiology.
  - Scientific session on efficacy, education and PACS
- **9:30 am–10:30 am**
  - Caldwell Lecture: Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region
- **10:30 am–12:00 noon**
  - Instructional courses on breast and cardiac imaging, nuclear medicine and vascular and interventional radiology.
  - Scientific session on efficacy, education and PACS
- **12:00 noon–1:00 pm**
  - Lunch in the exhibit hall
- **1:00 pm–3:00 pm**
  - Instructional courses on breast and cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on breast and cardiodiagnostic imaging and vascular and interventional radiology
- **2:30 pm–3:30 pm**
  - Awards session
- **4:00 pm–6:00 pm**
  - Instructional courses on breast and cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on musculoskeletal imaging and nuclear medicine

## Tuesday, May 4
- **7:00 am–8:00 am**
  - Power hours on abdominal imaging and vascular and interventional radiology
- **7:00 am–12:00 noon**
  - Categorical course on efficient imaging
- **8:00 am–9:30 am**
  - Instructional courses on breast and cardiodiagnostic imaging, nuclear medicine and vascular and interventional radiology.
  - Scientific session on efficacy, education and PACS
- **10:00 am–11:30 am**
  - Instructional courses on musculoskeletal imaging and neuroradiology.
  - Scientific sessions on emergency and PACS
- **12:00 noon–1:00 pm**
  - Lunch in the exhibit hall
- **1:00 pm–3:00 pm**
  - Instructional courses on gastrointestinal and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **4:00 pm–6:00 pm**
  - Instructional courses on breast and cardiodiagnostic imaging, nuclear medicine and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **4:00 pm–6:30 pm**
  - Review course on cardiovascular imaging

## Wednesday, May 5
- **7:00 am–8:00 am**
  - Power hours on cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on emergency and PACS
- **7:00 am–8:00 am**
  - Power hours on cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on emergency and PACS
- **8:00 am–9:30 am**
  - Instructional courses on breast, gastrointestinal and musculoskeletal imaging, neuroradiology and nuclear medicine
- **10:00 am–12:00 noon**
  - Instructional courses on musculoskeletal imaging and neuroradiology.
  - Scientific sessions on emergency and PACS
- **12:00 noon–1:00 pm**
  - Lunch in the exhibit hall
- **1:00 pm–3:00 pm**
  - Instructional courses on breast, chest, gastrointestinal and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **4:00 pm–6:00 pm**
  - Instructional courses on breast, chest, gastrointestinal and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **4:00 pm–6:30 pm**
  - Review course on vascular and interventional radiology

## Thursday, May 6
- **7:00 am–8:00 am**
  - Power hours on cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on emergency and PACS
- **7:00 am–8:00 am**
  - Power hours on cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on emergency and PACS
- **8:00 am–9:30 am**
  - Instructional courses on breast, chest, gastrointestinal and musculoskeletal imaging, neuroradiology and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **10:00 am–12:00 noon**
  - Instructional courses on breast imaging.
  - Scientific sessions on emergency and PACS
- **12:00 noon–1:00 pm**
  - Lunch in the exhibit hall
- **1:00 pm–3:00 pm**
  - Instructional courses on breast and chest imaging.
  - Scientific sessions on emergency and PACS
- **4:00 pm–6:00 pm**
  - Instructional courses on breast, chest, gastrointestinal and vascular and interventional radiology.
  - Scientific sessions on gastrointestinal and vascular and interventional radiology
- **4:00 pm–6:30 pm**
  - Review course on gastrointestinal and vascular and interventional radiology

## Friday, May 7
- **7:00 am–8:00 am**
  - Power hours on cardiodiagnostic imaging and vascular and interventional radiology.
  - Scientific sessions on emergency and PACS
- **8:00 am–9:30 am**
  - Instructional courses on breast imaging, competencies, emergency radiology, neuroradiology and ultrasound
- **10:00 am–12:00 noon**
  - Instructional courses on neuroradiology and ultrasound.
  - Scientific session on neuroradiology
- **10:30 am–1:00 pm**
  - Review course on chest imaging
- **1:00 pm–3:00 pm**
  - Instructional courses on competencies and neuroradiology.
  - Scientific session on neuroradiology
- **2:00 pm–4:30 pm**
  - Review course on ultrasound
- **2:00 pm–4:30 pm**
  - Review course on ultrasound

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There are additional fees for the categorical course and the review course.

Power Hours are one-hour sessions that feature oral presentations by electronic exhibit authors.
An enthusiastic welcome to you as a participant in the 2010 ARRS Annual Meeting at the Manchester Grand Hyatt in San Diego, CA! Our 110th annual meeting offers 57 CME credits, and is designed to meet your educational requirements, whether you need credits in a particular subspecialty area, are interested in courses that cover a variety of subspecialties, or obtaining SAM credit towards Maintenance of Certification.

I’m proud this year that our popular Categorical Course is on the topic of practical approaches to common clinical conditions. Chaired by Drs. Ruth Carlos, Yoshimi Anzai, Craig Blackmore, Paul Cronin and Santiago Medina, this program focuses on appropriate use of imaging in the wide spectrum of diseases with an emphasis on an evidence-based approach. Attendees will learn practical tips, protocols and algorithms to incorporate into their daily practice. The accompanying syllabus is a resource that attendees will refer to again and again.

ARRS is again offering our popular Case-Based Imaging Review Course, designed for both residents and physicians in practice. Directed by Drs. Deborah Baumgarten, Sanjeev Bhalla, Lonie Salkowski and Donald Yoo, the course includes 330 cases across 11 subspecialty areas.

The 2010 annual meeting also includes three half-day courses on Sunday focusing on radiology education, item writing and business in practice. Our instructional courses taught by respected radiology educators, scientific sessions highlighting the latest in radiology research and power hour sessions that feature authors of electronic exhibits discussing their exhibits complete the program.

This annual meeting is made possible through the contributions of hundreds of dedicated volunteers and the ARRS staff. Dr. Mauricio Castillo chairs our Instructional Courses Committee, which is responsible for the development of our instructional courses, the categorical course, case-based review course and the Sunday half-day courses. Dr. Jonathan Lewin chairs our Program Committee, which is responsible for the annual meeting scientific sessions and the electronic exhibits, including the power hours. Bringing this all together is our Education/CME Committee, which is responsible for our overall educational programs, and is chaired by Dr. Norman Beauchamp. The intellectual contributions and time commitment of our volunteer leaders, our committee members and our volunteer faculty members makes it possible for the ARRS to bring you this outstanding meeting.

We are delighted and honored that you have joined us in San Diego, and look forward to seeing you in Chicago for the 2011 Annual Meeting, May 1st through the 6th.

Ella A. Kazerooni, MD, MS
ARRS President
General Information

Annual Meeting Program Objectives
The 2010 Annual Meeting of the American Roentgen Ray Society has three goals:
• to offer an educational forum in the practice and science of radiology based on recognized needs;
• to provide a forum to report on, exchange information on and disseminate new developments and expert knowledge in radiology; and
• to ensure that the educational activities have influenced participants’ knowledge, skills, behavior and practice performance.

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

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

Designation Statement: The ARRS designates this educational activity for a maximum of 57 AMA PRA Category 1 credit(s). Each physician should claim only those credits that he/she actually spent in the activity.

How to Obtain CME Credits: CME credit may be claimed for attendance at the categorical course, case-based imaging review course, education seminar, item-writing workshop, business management seminar, instructional courses, scientific paper presentation sessions, and power hours. Additional CME credit is available for selected electronic exhibits. Attendance logs and evaluations are available at http://cme.arrs.org. It is the individual’s responsibility to complete the forms online in order to receive CME credit. Once the individual has completed the form, he or she can save a copy for his/her records. In addition, ARRS members may access their CME records through the educational services portal of the ARRS Web site (www.arrs.org). Note that credit may not be claimed for the categorical course, or the case-based imaging review course unless the attendee has registered for the course and paid the separate registration fee.

Content Codes
To assist meeting attendees in maintaining more complete CME records, the attendance log and attendee CME transcripts will include the content codes for every activity in which the attendee participates.

Content Codes:
- BI Biopsy
- BR Breast Radiology (Imaging and Interventional)
- CA Cardiac Radiology
- CH Chest/Pulmonary Radiology
- CT Computed Tomography
- ED Education
- ER Emergency Radiology
- GI Gastrointestinal Radiology
- GN General Radiology
- GU Genitourinary Radiology
- HN Head and Neck Radiology
- HP Health Policy/Management/Informatics
- MI Molecular Imaging
- MK Musculoskeletal Radiology
- MO Mammography
- MR Magnetic Resonance Imaging
- NM Nuclear Medicine
- NR Neuroradiology
- OB Obstetric/Gynecologic Radiology
- OT Other
- PD Pediatric Radiology
- PH Physics and Basic Science
- PS Patient Safety
- PT PET-CT
- RO Radiation Oncology
- SO Socioeconomic Concepts
- US Ultrasound
- VI Vascular and/or Interventional Radiology

ARRS Booth #315
Monday-Wednesday, May 3-5
9:15 am–4:00 pm
Elizabeth Ballroom, Second Level

Thursday, May 6
9:00 am–4:30 pm
Registration, Elizabeth Foyer, Second Level

Friday, May 7
9:00 am–2:00 pm
Registration, Elizabeth Foyer, Second Level

ARRS educational products and resources are available for purchase in the ARRS booth. ARRS staff will answer questions and demonstrate online resources, including access to the American Journal of Roentgenology, Web lectures, CME/SAM tracker and the PQI template.

Automated Teller Machines (ATMs)
There are two ATMs located in the lobby of the Manchester Grand Hyatt. There is a $3.50 transaction fee.

Business Center
The Business Center is located on the Lobby Level of the Seaport Tower of the Manchester Grand Hyatt and provides a variety of business services. The Business Center is open daily from 7:00 am to 7:30 pm.

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

Case of the Day
Monday-Wednesday, May 3–5
9:15 am–4:00 pm
Elizabeth Ballroom, Second Level

Thursday, May 6
6:30 am–7:00 pm
Registration, Elizabeth Foyer, Second Level

Friday, May 7
6:30 am–1:00 pm
Registration, Elizabeth Foyer, Second Level

Winners will be posted on the Case of the Day computers. Winner ribbons may be claimed at the ARRS booth Tuesday and Wednesday in the commercial exhibit hall (Elizabeth Ballroom, Second Level) and Thursday and Friday at the ARRS booth in the ARRS registration area (Elizabeth Foyer, Second Level).

Cell Phones and Pagers
As a courtesy to your fellow attendees, please turn off cell phones and pagers or set them to vibrate. Phone conversations should not be conducted in meeting rooms.
Commercial Exhibits
The ARRS encourages you to visit the commercial exhibit hall during your time at the 2010 ARRS Annual Meeting. If you visit a commercial exhibitor and allow your name badge to be scanned, you are providing the exhibitor with your name, organization, address, email and phone number. If you do not wish for an exhibitor to have this information, please do not allow your name badge to be scanned.

Commercial Exhibit Installation
Elizabeth Ballroom, Second Level
Saturday, May 1
2:00 pm–6:00 pm
Sunday, May 2
7:30 am–6:00 pm

Commercial Exhibit Hours
Elizabeth Ballroom, Second Level
Monday–Wednesday, May 3–5
9:15 am–4:00 pm

Commercial Exhibit Dismantling
Elizabeth Ballroom, Second Level
Wednesday, May 5
4:00 pm–12:00 midnight
Thursday, May 6
8:00 am–2:00 pm

Commercial Exhibit Hall Prize Drawings
ARRS will hold daily prize drawings Monday–Wednesday, May 3–5 in the commercial exhibit hall. The prize drawings will be held during the afternoon breaks.

Disabilities
The ARRS is committed to meeting all our attendees’ needs which includes providing an accessible environment and accommodating any needs of people with disabilities. The Manchester Grand Hyatt has wheelchair services, accessible elevators, accessible restroom stalls, public telephones available at varying heights, and sit-down TTY units. Attendees should inquire about special services at ARRS Registration (Registration, Elizabeth Foyer, Second Level).

Electronic Exhibit Hours
Sunday, May 2
1:00 pm–6:00 pm
Randle D/E, Fourth Level
Monday–Thursday, May 3–6
7:00 am–12:00 midnight
Randle D/E, Fourth Level
Friday, May 7
7:00 am–1:00 pm
Randle D/E, Fourth Level

Emergencies/First Aid
In the Manchester Grand Hyatt, dial 55 on any house phone for emergencies of any nature. The hotel’s trained professionals will assist you directly, or if necessary, arrange for proper support from EMS or police. All Security personnel are AED, CPR and First Aid Certified. Please do not call 911 before contacting hotel emergency.

Foreign Currency Exchange
For registered Manchester Grand Hyatt guests, a foreign currency exchange is available at the front desk. The maximum amount that can be changed daily is $100. Guests must present a valid picture ID as well as a major credit card.

Internet Café
Computers are available to check email in the Commercial Exhibit Hall (Elizabeth Ballroom, Second Level) Monday, May 3–Wednesday, May 5 from 9:15 am to 4:00 pm. The Internet Café will be located in ARRS Registration (Elizabeth Foyer, Second Level) on Thursday, May 6, 6:30 am–7:00 pm, and Friday, May 7, 6:30 am–1:00 pm.

Lost and Found
For any lost and found items at the Manchester Grand Hyatt, contact 4203. The lost and found office is monitored by security personnel and kept locked 24 hours a day.

Luggage Check
The ARRS does not provide a luggage check. Luggage should be checked at your hotel.

Parking
Valet and self-parking are available at the Manchester Grand Hyatt at hourly and overnight rates.

Valet Parking
Overnight guest $32.00
First Hour $10.00
After the first hour $5.00 per hour

Self-Parking
Overnight guest $22.00
First Hour $6.00
After the first hour $6.00 per hour

For additional information regarding parking, please call the hotel at (619) 358-6658. Prices are subject to change.

Restaurant Reservations/Sightseeing
The hotel’s concierge desk will assist attendees in making restaurant reservations. The concierge desk also has information on transportation, golf, tours, etc.

Security
In the Manchester Grand Hyatt dial 55 to reach security on any house or guest room phone.

Smoking Policy
The ARRS has a no-smoking policy for all of its meetings. This policy applies to all meeting space in the Manchester Grand Hyatt, including the commercial exhibit hall, meeting rooms, foyers, lobbies and all restaurants. The Manchester Grand Hyatt is a smoke-free hotel. There is a designated smoking area in front of the hotel by the clock tower, harbor side of the front drive.

Speaker Preview Room
Molly A/B, Second Level
Friday, April 30
1:00 pm–5:00 pm
Saturday, May 1
7:00 am–6:00 pm
Sunday, May 2
6:30 am–6:00 pm
Monday, May 3
6:00 am–5:30 pm
Tuesday, May 4
6:00 am–6:00 pm
Wednesday, May 5
6:00 am–6:00 pm
Thursday, May 6
6:00 am–5:30 pm
Friday, May 7
6:00 am–3:30 pm

Telephones
Public telephones are available on the lobby, the second, third and fourth levels of the Manchester Grand Hyatt.

Telephone Numbers
Police and medical emergencies outside the hotel 911
Manchester Grand Hyatt Main Number (619) 232-1234
Disclosures of Commercial Interest

Since its inception in 1900, the ARRS has maintained a tradition of scientific integrity and objectivity in its educational activities. In order to preserve this integrity and objectivity, all individuals participating as planners, presenters and moderators in an ARRS educational activity or an activity jointly sponsored by the ARRS must appropriately disclose any financial relationship with a commercial organization that may have an interest in the content of the educational activity.

ACCME Definitions of a Financial Relationship

Financial relationships are those relationships in which the individual benefits by receiving a salary, intellectual property rights, consulting fee, honoraria, ownership interest (e.g. stocks, stock options or other ownership interest, excluding diversified mutual funds) or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received or expected. The ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner.

Disclosures

All of the speakers and planners with the exception of the following have indicated that they do not have a financial relationship with a commercial organization that may have an interest in the content of the educational activity.

Categorical Course

K. Applegate has a book contract with Springer Publishers on EBM Imaging.
C. Blackmore is the recipient of book royalties from Springer Publishers.
R. Carlos is a board member of GE-AUR Academic Radiology Research Fellowship (travel expenses paid, no honorarium).
P. Cronin is a GERRAF Fellow (2007-2009).
D. Hallam received honorariums from Penumbra, Inc. and Concentric Medical to compensate expenses for User’s meeting.
J. Jarvik is a consultant for HealthHelp, Inc.
S. Medina is the co-editor of the “Evidence-Based Imaging” book and is recipient of royalties from Springer Publishers.
U.J. Schoepf is a consultant for and recipient of research support from Bayer-Schering Pharma, Bracco Diagnostics, Inc., General Electric Healthcare, Medrad, Inc., and Siemens Medical Solutions.
M. Siegel provides research support for Siemens Medical Solutions and is a member of the Speaker’s Bureau.
G. Zoarski provides research support for Terumo Medical Corporation, and is an investor with NFocus Neuromedical.

Approach to Diagnosis: Case-Based Imaging Review Course

G. Abbott is an author for Amirsys, Inc. and Thieme Medical Publishers.
S. Bhalia is a consultant for Medtronic, Inc.
C. Glastonbury is a shareholder and consultant for Amirsys, Inc.
A. Nees provides research for General Electric.
A. Nemcek is a consultant for B. Braun Interventional, Inc.
C.D. Phillips has an affiliation with Amirsys, Inc.
C. Santillan is a member of the General Electric Advisory Board.
L. Scott is a consultant for Philips Healthcare.
B. Yeh is the recipient of a grant from NIH. He has pending clinical grants with General Electric, Bayer Healthcare, and Medrad, Inc.
S. Zagan is a consultant for Bard Peripheral Vascular

Business/Practice Management Course

J. Berlin is a stockholder and member of the Radiology Advisory Board, Nuance Communications (owner of Powerscribe voice recognition software).
D. Levin is a consultant to Healthhelp, Inc.
F. Lexa is a member of the Board of Eagle Eye.

Item-Writing Workshop

J. Collins receives book royalties and is an editor for Elsevier. She also receives book royalties from Lippincott Williams & Wilkins.

Instructional Courses

IC102 S. Abbara received an honorarium from Siemens Medical Solutions for speaker/course director at the European Congress of Cardiology. He is also a member of the Medical Advisory Boards for Partners Imaging and Magellan Healthcare, Inc., a consultant for Perceptive Informatics, Inc., and the recipient of funded research support from Bracco Diagnostics, Inc.
IC102 U.J. Schoepf is the recipient of research support and a consultant for Bayer-Schering Pharma, Bracco Diagnostics, Inc., General Electric Healthcare, Medrad, Inc., and Siemens Medical Solutions.
IC103 H. Agress is a member of a GEMS PET/CT Board of Directors (non-financial).
IC106 D. Mankoff is the recipient of a research grant from Pfizer, Inc. and Merck. He is also a consultant for Pfizer, Inc.
IC106 G. Mercier is a member of Siemens Medical Solutions Molecular Imaging Advisory Board.
IC107 G. Reddy is the recipient of research funding from General Electric Healthcare.
IC107 S. Teague is the recipient of an honorarium and a consultant for Philips Medical Systems. He has a stock receipt from 3DR and is a member of their Advisory Board.
IC111 R. Gilkeson is the recipient of research support from Siemens Medical Solutions.
IC113 J. Thrall is a stockholder with GE Healthcare and Microsoft. He is a Board Member with Mobile Aspects and Worldcare, and an advisor for Genetech.
IC114 D. Morgan is the recipient of research support from Bracco Diagnostics, Inc. and Daiichi Sankyo.
IC116 M. Atalay is a consultant for General Electric.
IC117 A. Nemcek is a consultant for B. Braun Interventional, Inc.
IC201 J. Leyendecker is the recipient of consulting fees from Bayer Healthcare. He is also a member of the Speakers Bureau for Bracco Diagnostics, Inc. and Bayer Healthcare.
IC202 J. Harvey has an affiliation with Matekema, Ltd.
IC204 R. Harnsberger is a stockholder and CEO of Amirsys, Inc.
IC205 H. Jacene is the recipient of research support from GlaxoSmithKline.
IC206 J. Jacobson is a consultant for Philips Medical Systems, SonoSite, Inc., Terson, and Bioclinica. He is also the recipient of book royalties from Elsevier, Inc.
IC209 W. Morrison is a member of the Scientific Advisory Board (unpaid) for Oni, Inc., and is a consultant for Apriomed, Inc.
IC213 J. Ross is a stockholder with Amirsys, Inc.
IC214 D. Madoff is a consultant for BioSphere Medical, Inc.
IC214 R. Murphy provides medical research for Sirtex Medical, Inc.
IC214 S. Rose is a consultant for Sirtex Medical, Inc., Terumo Medical Corporation and Onyx Pharmaceuticals. He is also a stockholder with Sirtex Medical, Inc. and Boston Scientific Corporation.
Disclosures of Commercial Interest

IC301 D. Kim is a consultant for Viatronix and Medicsight, and a co-founder for VirtuoCTC, LLC.
IC301 J. Yee is the recipient of a research grant from General Electric Healthcare.
IC302 H. McAdams is the recipient of a research grant from General Electric, and an author with Elsevier, Inc.
IC305 J. MacKenzie is the recipient of a research grant from GE Medical Systems.
IC307 L. Bancroft is the recipient of book royalties from Lippincott Publishing. She is a speaker for ICMCE.
IC310 S. Tutton is a consultant for Benvenue Medical, Inc.
IC312 J. Sumkin is a PI on a Hologic-funded research agreement between the University of Pittsburgh and Hologic.
IC312 M. Zuley is a member of the Hologic, Inc. Advisory Board and a recipient of grant funding for research.
IC313 G. Abbott is an author for Amirsys, Inc. and Thieme Medical Publishers.
IC317 J. Kanne is a consultant for PTC Therapeutics, Inc. and superDimension, Inc.
IC319 S. Mukherji is a consultant for Philips Medical Systems.
IC401 S. Bhalla is a consultant for Medtronic, Inc.
IC403 K. Buckwalter is the recipient of a research grant from Siemens Medical Solutions.
IC406 H. MacMahon is a consultant for and a recipient of research support from Riverain Medical, LLC. Dr. MacMahon also receives honoraria from Konica Minolta, and has stock options with Hologic, Inc.
IC406 I. Vlahos is a consultant for Siemens Medical Solutions and General Electric Healthcare. He is also the recipient of research grant support from Bayer Healthcare, and honoraria for lectures from Siemens Medical Solutions.
IC408 B. Yeh is the recipient of a grant from NIH. He also has pending clinical grants with General Electric, Bayer Healthcare, and Medrad, Inc.
IC412 S. Wilson is the recipient of a research grant from Lantheus Medical Imaging, and a member of the Ultrasound Advisory Board for Philips Medical Systems.
IC413 O. Mawlawi is the recipient of a research grant from General Electric Healthcare.
IC414 G. Butler is Chair of Real Time Radiology, Inc.
IC415 K. Shanmuganathan is an Advisor to Philips Healthcare.
IC416 B. Hashimoto is a member of the following organizations' Advisory Boards: Philips Medical Systems, General Electric Healthcare and Siemens Medical Solutions. She is also a consultant for GE Ultrasound and Philips Ultrasound.
IC504 W. Pope is the recipient of consulting fees from Genentech and Exelixis.
IC505 L. Scoult is an education consultant for Philips Healthcare.
IC506 J. Ellis is an unpaid investigator supporting two contrast media research projects funded by General Electric Healthcare. He is a consultant to a legal firm representing General Electric Healthcare.
IC506 P. Kuo is a consultant for NSF Litigation.
IC507 C. Glastonbury is a consultant and stockholder with Amirsys, Inc.
IC508 D. Pretorius provides software support for research for Philips Medical Systems and General Electric Healthcare.
IC509 M. Parker is a co-author for Thieme Medical Publishers

Scientific Sessions: Moderators and Keynote Speakers
M. Atalay is a consultant for General Electric.
D. Channin is officer and stockholder of Hotlight, Inc. He is also a paid speaker for Carestream Healthcare, Inc.
C. Glastonbury is an investor and consultant for Amirsys, Inc.
D. Ikeda is a grant recipient from Spectros Corporation and Advanced Research Technology.
C. Khan is principal and officer of Hotlight, Inc.
D. Madoff is a consultant for BioSphere Medical, Inc.
M. Michel is an author and co-editor for Amirsys, Inc.
W. Morrison is an advisor on the Scientific Advisory Board of ONI, Inc. He is also a consultant for AptroMed, Inc.
A. Neece provides research support for General Electric.
A. Nemeck is a consultant for B. Braun Interventional, Inc.
G. Newstead has an institutional research agreement with Philips Healthcare. She also serves on the advisory boards of Bayer Healthcare and Naviscan, Inc.
A. Oto is the recipient of an honoraria and a consultant for GE Healthcare, and provides research support for Philips Healthcare and Bayer Healthcare.
M. Parker is the recipient of book royalties and a co-author of “Teaching Atlas of Chest Imaging.”
N. Saad provides research support to General Electric, and is a shareholder with iVirtuoso, Inc.
K. Salzman is an author and consultant for Amirsys, Inc.
C. Santillan serves on the advisory board for General Electric Healthcare.
B. Yeh has a pending research agreement with General Electric Healthcare. He also has a research agreement with Medrad, Inc.
J. Yee is a recipient of a research grant from General Electric Healthcare.

Oral Presentations/Scientific Sessions
006 W. Boom is the co-founder of Virtuo, Inc., and the recipient of a research grant from Siemens AG.
014 J. Berlin is a stockholder and member of the Advisory Board of Nuance Communications, the Company that owns PowerScribe Voice Recognition Software. The financial analysis described in this abstract is independent of any financial relationship with Nuance and is not an endorsement of any commercial product.
015 M. Laks is the CEO of Meromorphic Enterprises Corporation.
020 H. Ojeda-Fournier is an educational consultant for SenoRx.
022 A. Penn and G. Newstead are consultants to Invivo Corp, a subsidiary of Philips Medical Systems. S. Thompson is an employee of Invivo Corporation.
027 W. Huda is the recipient of research funding from Siemens.
028 W. Huda is the recipient of research funding from Siemens.
029 S. Krala is the recipient of funding from GE Healthcare. J. Hsieh and P. Licato are employees of GE Healthcare. The rest of the authors has no financial relationship pertinent to the study.
030 L. Tannenbaum is a consultant for GE Healthcare.
032 S. Krala is the recipient of funding from GE Healthcare. A. Forsberg is an employee of Sharpview. The rest of the authors has no financial relationship pertinent to the study.
033 R. Nelson is a consultant for GE Healthcare.
042 R. Nelson is a consultant for GE Healthcare.
045 R. Wissman provides research support for DePuy.
054 T. Turkington is the recipient of research support from GE Healthcare, the manufacturer of the scanner used for this study. T. Turkington is a consultant to Data Spectrum Corp., the manufacturer of some of the phantom equipment used for this study.
066 S. Fischer and M. Ivanovic are employed by Philips Healthcare.
068 M. Zuley is the recipient of a research grant from Hologic, Inc. and is a member of Hologic's Scientific Advisory Board.
DISCLOSURES OF COMMERCIAL INTEREST

070 G. Newstead is the recipient of research support from Philips Medical Systems and Naviscan Inc., and a member of Three Palm Software’s Medical Advisory Board. R. Schmidt is a stockholder with Hologic, Inc., and a member of Three Palm Software’s Medical Advisory Board. R. Nishikawa is the recipient of royalties and research funds and a shareholder with Hologic, Inc. as well as a consultant for Siemens Medical Solutions, and a member of the Scientific Advisory Board for Dexcela Ltd., UK.

071 E. Mendelson is a member of the Medical Advisory Committees for Hologic, Inc. and Philips Ultrasound; the recipient of research support and a consultant for Siemens Medical Solutions (Ultrasound); the recipient of research support and a speaker for SuperSonic Imagine; and a speaker for Toshiba.

074 U. Numburi is affiliated with Siemens Healthcare.

085 J. Yee is the recipient of a grant from GE Healthcare.

086 E. Merkle is an advisor and a member of the Speaker’s Bureau for Bayer Health Care.

087 L. Chu is the recipient of research support from Bracco Diagnostics, Inc.

089 E. Merkle is a consultant for Bayer Health Care. D. Boll is a member of the Speaker’s Bureau for Bayer Health Care.

091 D. Marin is a current radiology fellow at Bracco Diagnostics, Inc.

092 S. Wilson is the recipient of a research grant from Lantheus Medical Imaging, and a member of the Advisory Boards for Contrast Ultrasound for Philips Healthcare and Siemens Medical Solutions.

098 W. is a consultant and member of the Medical Advisory Board for General Electric Healthcare.

100 S. Destounis is a research consultant for Carestream Health, Inc.; an investigator and member of the Medical Advisory Board for Siemens AG; an investigator for FUJIFILM Medical Systems USA, Hologic, Inc., and U-Systems, Inc.; and a sub-investigator for Konin Corporation. P. Seifert is a sub-investigator for FUJIFILM Medical Systems USA and Hologic, Inc., and an investigator for Konin Corporation. P. Somerville is a sub-investigator for FUJIFILM Medical Systems USA, Hologic, Inc., and Koning Corporation. P. Murphy is a sub-investigator for FUJIFILM Medical Systems USA and Koning Corporation, and an investigator for Hologic, Inc. W. Young is a sub-investigator for FUJIFILM Medical Systems USA and Koning Corporation, and an investigator for Hologic, Inc.

110 The project was supported by Toshiba Canada. H. Mehrez is employed by Toshiba Canada.

111 L. Ciancibello is affiliated with Siemens Medical Solutions, GE Healthcare and Philips Healthcare.

114 M. Kalra is the recipient of a research grant from GE Healthcare. J. Hsieh is an employee of GE Healthcare.

116 L. Ciancibello is affiliated with Siemens Medical Solutions, GE Healthcare and Philips Healthcare.

121 R. Salem is an advisor to MDS Nordion.

125 O. Kolokythas is a consultant, member of the Advisory Board and the recipient of a grant from Philips Healthcare Ultrasound. T. Gauthier and R. Kemkers are engineers and employees at Philips Healthcare Ultrasound.

143 M. Kalra is the recipient of research support from GE Healthcare.

145 D. Naidich is a consultant for Siemens Medical Solutions. V. Anand is a Siemens Medical Solutions employee.

148 N. Paul is affiliated with Actisight Ltd. - the manufacturers of the Actiview Optical Guidance system, and provided research support for this project.

154 D. Kim is a consultant for Viatronix and Medicsight, and the co-founder of Medicsight.

155 L. Bogoni, M. Salganicoff, M. Wolf, and V. Raykar are employees of Siemens Medical Solutions, USA.

157 P. Pickhardt and D. Kim are consultants for Medicsight and Viatronix, and are co-founders of VirtuoCTC.

174 K. Davis is the recipient of research support for cryoablation from Endocare, Inc. P. Anderson is a consultant for Titan, Pioneer Aesculap and Medtronic; the recipient of royalties from Stryker and Pioneer; and owns stock in Pioneer and Titan.

181 D. Porter, T. Feiweier and A. Padua are employees of Siemens Medical Solutions AG.

182 K. Weiss and J. Weiss have intellectual property rights in Hybrid Convolution Kernel Technology.

184 K. Weiss and J. Weiss have intellectual property rights to ASSIST technology.

195 D. Husarik is an advisor and a member of the Speaker’s Bureau for Bayer Healthcare Pharmaceuticals, Inc. D. Boll is a member of Speaker’s Bureau for Bayer Healthcare Pharmaceuticals, Inc.

Electronic Exhibits

E021 H. Ojeda-Fournier is an educational consultant for SenoRx.

E025 R. Ellis is a consultant for Three Palm Software.

E030 J. Ecanow is a member of the Advisory Board for Philips Healthcare, a consultant for Three Palm Software. J. Ecanow and spouse are minor stockholders with Hologic, Inc.

E037 R. Ellis is a consultant for Three Palm Software.

E044 The Hitachi Corporation provided the Ultrasound equipment for this study.

E050 C. Rojas is the recipient of honoraria and a member of the Speaker’s Bureau for Siemens Medical Solutions; a consultant for E-Z-EM, Inc., Partners Imaging, Perceptive Informatics, Inc. and Magellan Healthcare, Inc.; and the recipient of a research grant from Bracco Diagnostics, Inc.

E051 A. El-Sherief is the recipient of honoraria and a member of the Speaker’s Bureau for Siemens Medical Solutions; a consultant for E-Z-EM, Inc., Partners Imaging, Perceptive Informatics, Inc. and Magellan Healthcare, Inc.; and the recipient of a research grant from Bracco Diagnostics, Inc.

E052 C. Rojas is the recipient of honoraria and a member of the Speaker’s Bureau for Siemens Medical Solutions; a consultant for E-Z-EM, Inc., Partners Imaging, Perceptive Informatics, Inc. and Magellan Healthcare, Inc.; and the recipient of a research grant from Bracco Diagnostics, Inc.

E054 W. Shuman is a consultant for GE Healthcare.

E057 R. Cury is the recipient of grant support from Astellas Pharma, Inc. US (which is one of the manufacturers of adenosine, a drug used during the acquisition of perfusion CT scans).

E074 R. Gilkeson and L. Ciancibello are the recipients of research support from Siemens Medical Solutions.

E076 J. Leipsic is a member of the Speaker’s Bureau for GE Healthcare. J. Leipsic and B. Heilbron are the recipients of research grants from GE Healthcare.

E110 C. Caluser and B. Gheorghe have a financial interest in Metritrack, LLC.

E112 A. Friedman - CTC at home, content provider and medical advisor.

E115 K. Chui has a financial interest in the publication as he is the General Manager/owner of Image Enhancement Technology Ltd. S.L. Chui is a field-trial research collaborator who has no financial interest in the abstract works.
Disclosures of Commercial Interest

E145  E. Siegel is the recipient of research grants from General Electric Company and Siemens Medical Solutions AG; a member of the Speaker’s Bureau for TeraRecon, Inc.; a member of the Advisory Board for Mercury Computer Systems, Inc.; and a member of the Board of Directors for Carestream Health, Inc.

E199  L. Tanenbaum is a member of the Speaker’s Bureau for GE Healthcare.

E218  M. Prince has patent agreements with GE Healthcare, Siemens Medical Solutions, Philips Healthcare, Hitachi, Medrad, Mallinckrodt, Nemoto, Bracco Diagnostics, Bayer, Epix, Lantheus and Topspins.

E221  P. Pickhardt and D. Kim have a consultation relationship with Viatronix, Inc.

E266  B. Friedman is a member of the Speaker’s Bureau for Eovist (Bayer Pharmaceuticals).

E269  C. Sirlin is the recipient of research grants from GE Healthcare, Bayer Pharmaceuticals, and Bracco Diagnostics; and a consultant and member of the Advisory Board for Bayer Pharmaceuticals.

E277  H. Tchelepi is a Speaker and the recipient of honoraria from GE Healthcare Ultrasound.

E286  P. Woodward has an affiliation with Amirsys, Inc.

E323  E. Fishman is the recipient of research support and a member of the Advisory Board for Siemens Medical Solutions AG, as well as co-founder of Hip Graphics, Inc. and a member of the Company Advisory Board for General Electric.

E437  F. Gaillard is the founder and editor-in-chief of Radiopaedia.org – an educational organisation devoted to providing and developing collaborative radiology reference material online. We accept sponsorship and display sponsor banners on the site. There is no editorial control.

E459  R. Wissman provides research support for DePuy Orthopedics.

E472  S. Lee’s abstract was supported by the 2004 Inje University research grant.

E651  E. Fishman is the recipient of grants/research support and a consultant for Siemens Medical Solutions, USA, and a stock shareholder in Hip Graphics, Inc.

E673  B. Mansouri has intellectual property in the field (BJW) Cooperative research and a development agreement with Philips Healthcare.

E702  R. Lin owns Zig and Tuff, LLC, which funded this research.

Planners
M. Rosado de Christenson is an author for the American Registry of Pathology, Amirsys, and Thieme Medical Publishers.
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CATEGORICAL COURSE SCHEDULE

PRACTICAL APPROACHES TO COMMON CLINICAL CONDITIONS: EFFICIENT IMAGING (PAC³E)—SETTING THE PAC³E OF IMAGING

Course Directors: Ruth C. Carlos, MD, MS; Yoshimi Anzai, MD, MPH; C. Craig Blackmore, MD, MPH; Paul P. Cronin, MD, MS; L. Santiago Medina, MD, MPH

Registration and a separate fee are required for this course.
Manchester Ballroom, Second Level

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

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

SUNDAY, MAY 2

7:30 am–10:00 am

7:30 am–7:35 am: Introduction—R. Carlos
7:35 am–8:00 am: Introduction to Evidence Based Imaging—S. Medina
8:00 am–9:00 am: Acute Chest Pain in the Emergency Department: Overview, Protocol, Application and Scientific Basis—C. White
9:00 am–9:20 am: Imaging in Pulmonary Embolus: Imaging Findings in Thromboembolic Disease—A. Kelly
9:20 am–9:40 am: Imaging in Pulmonary Embolus: Current Controversies in PE Imaging—P. Cronin
9:40 am–10:00 am: Imaging in Pulmonary Embolus: Accuracy of Imaging PE/Current Guidelines—A. Kelly

10:00 am–12:00 noon

10:00 am–10:30 am: Nontraumatic Acute Intracerebral Hemorrhage: Diagnostic Work-Up and Algorithm—J. Kim
10:30 am–11:00 am: Nontraumatic Acute Intracranial Hemorrhage: Treatment of Cerebral AVM—B. Ghodke
11:00 am–11:30 am: Imaging in Cervical Spine Trauma: Use of CT—S. Mirvis
11:30 am–12:00 noon: Imaging in Cervical Spine Trauma: Use of MRI—A. Flanders

1:30 pm–3:30 pm

1:30 pm–2:30 pm: Updates in Lung Cancer: Role of Imaging in Screening, Staging and Restaging Lung Cancer—J. Ravenel
2:30 pm–2:50 pm: Imaging of the Pediatric Chest: Chest Infection—S. Westra
2:50 pm–3:10 pm: Imaging of the Pediatric Chest: Mediastinal Non-Vascular Masses—E. Lee
3:10 pm–3:30 pm: Imaging of the Pediatric Chest: Vascular Rings; Slings, Tracheal Rings—R. Krishnamurthy

MONDAY, MAY 3

7:30 am–9:30 am

7:30 am–8:00 am: Dementia: Role of MR Imaging for Diagnosis—M. Petrou
8:00 am–8:30 am: Dementia: Role of PET Imaging for Prognosis—S. Minoshima
8:30 am–9:10 am: Traumatic Brain Injury: When and How to Image and Prediction Criteria—Y. Anzai
9:10 am–9:30 am: Traumatic Brain Injury: Advanced Imaging Techniques—R. Lee

4:00 pm–6:00 pm

4:00 pm–4:30 pm: Stroke: Role of Imaging for Diagnosis of Acute Stroke—N. Beauchamp
4:30 pm–5:00 pm: Stroke: Treatment of Acute Stroke—D. Hallam
5:00 pm–5:30 pm: Low Back Pain: When and How Do You Image Back Pain—J. Jarvik
5:30 pm–6:00 pm: Low Back Pain: How Do You Treat Low Back Pain—G. Zoarski

1:00 pm–3:00 pm

1:00 pm–2:00 pm: Appendicitis—C. Blackmore, J. Rhea
2:00 pm–2:30 pm: Imaging of Appendicitis in Pregnancy—D. Katz

3:00 pm–6:10 pm

3:00 pm–4:00 pm: Obstruction—M. Staunton
4:00 pm–4:30 pm: Abdominal Trauma—J. Gross
4:30 pm–5:00 pm: Imaging in Acetabular Trauma—A. Wilson
5:00 pm–5:30 pm: Evidence-Based Imaging of Injuries of the Hip: Current Concepts—J. Yu
5:30 pm–6:10 pm: Pediatric Musculoskeletal Imaging: Slipped Capital and Femoral Epiphysis and Obesity—R. Restrepo

Pediatric Musculoskeletal Imaging: Imaging in Scoliosis—G. Khanna
# Categorical Course Schedule

**Tuesday, May 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
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<tbody>
<tr>
<td>7:00 am–10:00 am</td>
<td>Imaging in Nonaccidental Pediatric Trauma: CNS Injury—Y. Sato</td>
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<tr>
<td>7:00 am–7:30 am</td>
<td>Imaging of Child Abuse: Non-CNS Injury—K. Applegate</td>
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<tr>
<td>7:30 am–8:00 am</td>
<td>Imaging of the Pediatric Abdomen: Pyloric Stenosis and Malrotation—M. Hernanz-Schulman</td>
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<tr>
<td>8:00 am–8:40 am</td>
<td>Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—K. Applegate</td>
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<tr>
<td>8:40 am–9:20 am</td>
<td>Imaging of the Pediatric Abdomen: Abdominal Neoplasms—M. Siegel</td>
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<tr>
<td>9:20 am–10:00 am</td>
<td>Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—K. Applegate</td>
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<tr>
<td>10:00 am–12:00 noon</td>
<td>Beyond the Pale—A 5mP² on EBM—J. Crowe</td>
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<tr>
<td>10:30 am–12:00 noon</td>
<td>Where the Rubber Meets the Road: IT in Critical Results Reporting—The Challenges and the Promises Where We Are Now and Where We Are Going—J. Chen</td>
<td></td>
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<tr>
<td>10:35 am–11:05 am</td>
<td>Where the Rubber Meets the Road: Evidence-Based Medicine and the Courts—A. Relyea-Chew</td>
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<tr>
<td>11:05 am–11:35 am</td>
<td>Where the Rubber Meets the Road: Evidence-Based Medicine and Economics/Regulations—D. Larson</td>
<td></td>
</tr>
<tr>
<td>11:35 am–12:00 noon</td>
<td>Where the Rubber Meets the Road: Evidence-Based Medicine and Economics/Regulations—D. Larson</td>
<td></td>
</tr>
</tbody>
</table>

*Lunch will be served in the exhibit hall Monday-Wednesday from 12:00 noon–1:00 pm*
Approach to Diagnosis: A Case-Based Imaging Review

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

Registration and a separate fee are required for this course.

Manchester Ballroom, Second Level

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

Goals and Objectives: Upon completion of the course, participants should be able to: detect, comprehensively assess and correctly diagnose various conditions and diseases from 11 radiology subspecialties; identify and recommend the most advantageous imaging modality or intervention-al technique for cases encountered in their practice; and describe the distinguishing characteristics that aid in pinpointing the correct diagnosis of cases that are imaged in practice.

**Tuesday, May 4**

1:00 pm—3:30 pm Nuclear Medicine
- PET/CT—D. Yoo*
- Endocrine—E. Akin
- Gastrointestinal—H. Jacene
- Pediatrics—T. Wong
- Skeletal—C. Rajadhyaksha

4:00 pm—6:30 pm Cardiovascular Imaging
- Cardiac MR: Common Applications—C. Javidan-Nejad
- Cardiac CT: Common Applications—J. Hsu
- Pulmonary Artery CT and MR—K. Birchard
- Plain Film—S. Bhalla*
- Aortic CT and MR—S. Seth

**Wednesday, May 5**

7:30 am—10:00 am Breast Imaging
- Calcifications—T. Stephens
- Ultrasound Evaluation of Mammographic Findings—A. Nees
- Architectural Distortion and Asymmetries—L. Salkowski*
- Ductal Pathology—M. Szabunio
- Breast MRI—A. Soetaert

1:00 pm—3:30 pm Pediatric Imaging
- Chest/Pulmonary—E. Lee*
- Musculoskeletal—E. Mann
- Abdominal—S. Anupindi
- Neurology—D. Rivard
- Genitourinary—S. DiPerna

4:00 pm—6:30 pm Vascular and Interventional Radiology
- Arterial Diagnosis—B. Funaki
- Arterial Therapy—S. Zangan*
- Venous Interventions—C. Ray
- Nonvascular Interventions—M.G. Knutinen
- Interventional Oncology—A. Nemcek

**Thursday, May 6**

7:30 am—10:00 am Gastrointestinal Imaging
- Liver—C. Santillan*
- Gallbladder/Biliary—B. Yeh
- Pancreas—C. Menias
- Small Bowel—Z.J. Wang
- Colon—H. Zafar

10:30 am—1:00 pm Musculoskeletal Imaging
- Injuries—D. Blankenbaker*
- Funny Looking Bones—K. Davis
- Soft Tissue Tumors—C. Gaskin
- Bone Tumors—N. Safdar
- Arthritis—S. Smith

2:30 pm—5:00 pm Neuroradiology
- Head and Neck—M. Michel
- Spine—J. Anderson*
- Potpourri—C. Glastonbury

**Friday, May 7**

7:30 am—10:00 am Genitourinary Imaging
- Male Pelvis—D. Casalino
- Kidney/Retroperitoneum—E. Remer
- Female Pelvis—C. Peterson
- Collecting System, Ureter, Bladder—M. Hartman
- Miscellaneous—D. Baumgarten*

10:30 am—1:00 pm Chest Imaging
- Radiographic Signs—C. Abbott*
- Congenital Abnormalities—E. Donnelly
- Autoimmune/Idiopathic—D. Manos
- Trauma/Iatrogenic—E. Moore
- Diffuse Lung Disease—A. Sharma

2:00 pm—4:30 pm Ultrasound
- Obstetrics—B. Hertzberg*
- Gynecology—O. Baltarowich
- Abdomen—U. Hamper
- Small Parts—D. Rubens
- Vascular—L. Scoutt

*Section Chair
Approach to Diagnosis: A Case-Based Imaging Review

Member Price: SPECIAL – $200 for four
SPECIAL – $155 for three
SPECIAL – $110 for two

Member-In-Training Price: SPECIAL – $155 for four
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SPECIAL – $85 for two

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SPECIAL – $385 for three
SPECIAL – $270 for two

Each workbook includes more than 330 challenging diagnostic radiology cases covering 11 broad categories of disease and technology. Readers will be able to improve their ability to detect, assess, and diagnose various conditions and diseases using multiple imaging techniques. Answers to cases are presented in the back of the book. These workbooks are appropriate for radiology professionals at all career stages with an interest in a case-based review of diagnostic imaging cases.

Sample chapters are available at www.arrs.org. These workbooks are a must-have for every radiology professional.

Order at www.arrs.org
Visit the ARRS Booth #315 in the Exhibit Hall and Purchase Your Workbooks Today.
**SUNDAY, MAY 2**

6:30 am– 6:30 pm  
Registration  
Elizabeth Foyer, Second Level

6:30 am–6:00 pm  
Speaker Preview  
Molly A/B, Second Level

7:30 am–6:00 pm  
Categorical Course on Efficient Imaging  
*There is an additional fee to attend this course.*  
Manchester Ballroom, Second Level

8:00 am–12:00 noon  
Item-Writing Workshop  
Randle A, Fourth Level

1:00 pm – 6:00 pm  
Electronic Exhibits  
Randle D/E, Fourth Level

1:30 pm–5:00 pm  
Business/Practice Management Seminar  
Education Seminar  
Elizabeth G, Second Level  
Elizabeth H, Second Level

**SPECIAL EVENTS**

4:30 pm–5:30 pm  
Glimpses Into Our Submarine Service During the Cold War—A. Van Moore, J. Moorefield  
Randle A, Fourth Level

6:15 pm–7:30 pm  
Opening Ceremonies  
Installation of Joseph K.T. Lee, MD by Ella A. Kazerooni, MD  
Gold Medal Presentations to Philip O. Alderson, MD, Barry Goldberg, MD and David E. Kuhl, MD  
Best Educator Award  
Elizabeth F, Second Level

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CC=Categorical Course  
IC/Instructional Course  
SS=Scientific Session

The abstracts included in the scientific sessions and power hours are available at [www.ajronline](http://www.ajronline)
2010 ARRS Categorical Course Syllabi

Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC^3E)

Setting the PAC^3E of Imaging

21.5 Category 1 CME Credits

The book will offer practical approaches for appropriate use of imaging in the wide spectrum of diseases and disorders affecting the heart, lungs, brain, spine, gastrointestinal tract and musculoskeletal system for efficient evidence-based management of adult and pediatric patients in the ambulatory and emergency settings.

Co-Editors:
Ruth C. Carlos, M.D., M.S.
Yoshimi Anzai, M.D., M.P.H.
C. Craig Blackmore, M.D., M.P.H.
Paul P. Cronin, M.D., M.S.
L. Santiago Medina, M.D., M.P.H.

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Nonmembers (with CME) $215
Nonmembers (no CME) $108

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SUNDAY SCHEDULE

7:30 am–6:00 pm

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

Registration and a separate fee required for this course.

Manchester Ballroom, Second Level

7:30 am–7:35 am
Introduction—R. Carlos

7:35 am–8:00 am
Introduction to Evidence-Based Imaging—S. Medina

8:00 am–9:00 am

9:00 am–9:20 am
Imaging in Pulmonary Embolus: Imaging Findings in Thromboembolic Disease—A. Kelly

9:20 am–9:40 am
Imaging in Pulmonary Embolus: Current Controversies in PE Imaging—P. Cronin

9:40 am–10:00 am
Imaging in Pulmonary Embolus: Accuracy of Imaging PE/Current Guidelines—A. Kelly

10:00 am–10:50 am
Diagnosing Coronary Artery Disease: Technique and Novel Technologies—U.J. Schoepf

10:50 am–11:30 am
Diagnosing Coronary Artery Disease: Coronary CTA—U.J. Schoepf

11:30 am–11:50 am
Imaging of Aortic Aneurysms: Screening—P. Cronin

11:50 am–12:10 pm
Imaging of Aortic Aneurysms: Diagnosis—A. Kelly

12:10 pm–12:30 pm
Imaging of Aortic Aneurysms: Surgical versus Endovascular Treatment—P. Cronin

12:30 pm–1:30 pm
Updates in Lung Cancer: Role of Imaging in Screening, Staging and Restaging Lung Cancer—J. Ravenel

1:30 pm–2:30 pm
Imaging of the Pediatric Chest: Chest Infection—S. Westra

2:30 pm–3:30 pm
Imaging of the Pediatric Chest: Mediastinal Non-Vascular Masses—E. Lee

3:30 pm–3:50 pm
Imaging of the Pediatric Chest: Vascular Rings, Slings, Tracheal Rings—R. Krishnamurthy

4:00 pm–4:30 pm
Stroke: Role of Imaging for Diagnosis of Acute Stroke—N. Beauchamp

4:30 pm–5:00 pm
Stroke: Treatment of Acute Stroke—D. Hallam

5:00 pm–5:30 pm
Low Back Pain: When and How Do You Image Back Pain—J. Jarvik

5:30 pm–6:00 pm
Low Back Pain: How Do You Treat Low Back Pain—G. Zoarski

8:00 am–12:00 noon

Item-Writing Workshop
Course Director: Jannette Collins, MD

Randle A, Fourth Level

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

Goals and Objectives: Upon completion of the program, the participants should be able to write and edit multiple choice items appropriate for adult educational activities, in particular ABR examinations and ABR-qualified self-assessment modules (SAMs).

8:00 am–8:30 am
Update on ABR Written Exams and SAMs—G. Becker

8:30 am–9:30 am
The Role of Objectives in Writing MCQs—B. Wood

9:30 am–10:40 am
Writing Good MCQs—J. Collins

10:40 am–12:00 noon
Review of Participant and Instructor MCQs—J. Collins

1:30 pm–5:00 pm

Business and Practice Management Seminar
Course Director: Jonathan Berlin, MD

Elizabeth G, Second Level

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

Goals and Objectives: Upon completion of the business and practice management seminar, participants will be able to describe the current and anticipated policy, economic and legislative changes and actions that will have an impact on radiology practice; and identify any changes regarding the participant’s role and business practices that he/she plans to implement to assure his/her significance and viability in the healthcare system and environment.

1:30 pm–2:00 pm
Issues in Radiology Utilization: The Payer’s Perspective—R. Leithiser

2:00 pm–2:30 pm
Federal Health Care Reform and Its Impact on Radiology—F. Lexa

2:30 pm–3:00 pm
Radiology Benefit Managers—St. George or the Dragon?—D. Levin

3:00 pm–4:00 pm
Voice Recognition: Financial and Non-Financial Factors—J. Berlin

4:00 pm–4:30 pm
Why Radiologists Are Losing Their Hospital Contracts: Is Your Contract Safe?—L. Muroff

4:30 pm–5:00 pm
Leadership Challenges for Radiology in the Future—A. Kaye
SUNDAY SCHEDULE

1:30 pm–5:00 pm

Education Seminar: Effective Feedback
Course Director: Richard Gunderman, MD

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

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

1:30 pm–1:35 pm
Introduction—R. Gunderman

1:35 pm–2:05 pm
Feedback Pros and Cons—R. Gunderman

2:05 pm–2:30 pm
Feedback 101—B. Wood

2:30 pm–3:00 pm
Why We Hate to Evaluate—S. Gay

3:00 pm–3:30 pm
Promoting Critical Reflection—S. Chan

3:30 pm–4:10 pm
What Shall We Do With All This Feedback?—A. Douglas-Akinwande

4:10 pm–5:00 pm
Critical Communications and Difficult Conversations—J. Lewin

4:30 pm–5:30 pm

SRS Sponsored Lecture: Glimpses Into Our Submarine Service During the Cold War—A. Van Moore, J. Moorefield

6:15 pm–7:30 pm

OPENING CEREMONIES

Call to Order

Installation of Joseph K.T. Lee, MD as 110th President by Ella A. Kazerooni, MD

Joseph K.T. Lee, MD
110th President
American Roentgen Ray Society
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Barry Goldberg, MD—introduced by Christopher R.B. Merritt, MD
David E. Kuhl, MD—introduced by James H. Thrall, MD

Best Educator Award
Presented to Melissa Rosado de Christenson
Dr. Philip Alderson, a former president of the American Roentgen Ray Society, was born in San Francisco, CA, and raised in St. Louis, MO. He earned his bachelor’s degree and MD from Washington University in St. Louis, and completed his residency in nuclear medicine and radiology at the Mallinckrodt Institute of Radiology at Washington University School of Medicine. Dr. Alderson is board certified by the American Board of Nuclear Medicine and the American Board of Radiology. He currently serves as dean of the School of Medicine and vice president for Health Sciences at Saint Louis University.

Dr. Alderson served as a major in the U.S. Air Force from 1975–1977, conducting research for the Defense Nuclear Agency at the Armed Forces Radiobiology Research Institute (AFRRI) in Bethesda, MD. He was a faculty member at the Johns Hopkins Medical Institutions from 1975–1980, starting as a part-time lecturer while he was at the AFRRI and completing his career at Johns Hopkins as an associate professor of radiology and environmental health sciences.

Dr. Alderson was appointed professor of radiology at the College of Physicians and Surgeons of Columbia University (Columbia-Presbyterian Medical Center) in 1980. He was appointed chair of the department of radiology in 1988, and served until he was appointed dean of the Saint Louis University School of Medicine in April 2008. As dean, he currently oversees the education, research and clinical service missions of the school. In 2009, he also was appointed vice president for Health Sciences at the university. In this role he oversees seven other schools and centers on the health sciences campus.

Dr. Alderson has been active and held office in many professional organizations throughout his career. In addition to being a past president of the American Roentgen Ray Society, Dr. Alderson has served as president of the American Board of Radiology; the Association of University Radiologists; the Association of Program Directors in Radiology; the Academy of Radiology Research; the Fleischner Society; the Society of Chairmen of Academic Radiology Departments; the New York State Radiological Society; and the New York (City) Roentgen Society. He also served as vice president of the American College of Radiology and the Society of Nuclear Medicine. Dr. Alderson is a Fellow of the American College of Radiology; the American College of Nuclear Physicians; the American Institute for Medical and Biological Engineering; and the American Association for the Advancement of Science.

Dr. Alderson has more than 200 publications; including four books, 40 book chapters, and more than 150 journal articles. He has made more than 200 presentations at local, national, and international meetings and scientific symposia including 10 named lectureships, and is listed in Who’s Who in Medicine and World. Who’s Who in the World, Who’s Who in America, Who’s Who in American Education, Who’s Who Among America’s Teachers, Who’s Who in Medicine and Healthcare, and Best Doctors in America. He has received the Gold Medal of the Association of University Radiologists and the Achievement Award of both the Association of Program Directors in Radiology and the New York Roentgen Society.

Dr. Alderson resides in St. Louis, MO, with his wife, Marjorie. They have two children and two grandchildren.
2010 Gold Medal Presentations

Dr. Goldberg has received many honorary professorships and fellowships from around the world. He has been named as a fellow of the American College of Radiology; the American Institute of Ultrasound in Medicine; the Society of Radiologists in Ultrasound; the American Heart Association; the Council of Cardiovascular Radiology; and the American Institute for Medical and Biological Engineering. He is also an honorary fellow of the Royal College of Radiologists in London, England.

The RSNA recognized Dr. Goldberg’s research accomplishments and educational achievements when they granted him the Outstanding Researcher Award and the Outstanding Educator Award. The International Society of Radiology recognized him for his contributions to the advancement of International Radiology with its highest honor, the Antoine Beclere Medal at the 23rd International Congress of Radiology in Montreal, Canada.

The Royal College of Radiology granted him the Outstanding Researcher Award and the Outstanding Educator Award. The International Society of Radiology recognized him for his contributions to the advancement of International Radiology with its highest honor, the Antoine Beclere Medal at the 23rd International Congress of Radiology in Montreal, Canada.

Dr. Goldberg has been married to his wife Phyllis for 46 years. His two children have brought him great joy. However, if you really want to see him smile, ask him about his grandchildren, Bradley and Hannah.

David E. Kuhl, MD

Dr. David E. Kuhl, of Ann Arbor, MI, who has been called the father of emission tomography, has contributed greatly to the development of tomographic imaging in nuclear medicine. He is a professor of radiology at the University of Michigan Medical School.

Dr. Kuhl received his undergraduate degree in physics from Temple University and his MD from the University of Pennsylvania. After completing a rotating internship at the Hospital of the University of Pennsylvania, he served two years in the United States Navy at the U.S. Naval Hospital in Portsmouth, VA. He completed his residency and fellowship in radiology shortly after at the Hospital of the University of Pennsylvania.

In the late 1950s, Dr. Kuhl developed a novel method of tomographic imaging of the distribution of radioactive isotopes in the body. In the mid-1960s, he succeeded in the axial transverse tomographic imaging of humans. This was before the development of X-ray CT, and the technology had a great impact on the development and evolution of various methods of computed tomography, including positron emission tomography (PET).

Dr. Kuhl has held various positions at several academic universities. He began his academic career at the University of Pennsylvania School of Medicine where he was a professor of radiology; a professor of bioengineering; the chief of the division of nuclear medicine; and vice chairman of the department of radiology. In 1976, he left the University of Pennsylvania for the University of California at Los Angeles School of Medicine where he served as professor of radiological sciences; chief of the division of nuclear medicine; associate director of the Laboratory of Biomedical and Environmental Sciences; and vice chairman of the department of radiological sciences. Since 1986, Dr. Kuhl has worked at the University of Michigan School of Medicine. Currently a professor of radiology, he has also served as a professor of internal medicine; the chief of the division of nuclear medicine; and director of the PET center.

Dr. Kuhl has been an active member of numerous professional societies and organizations. He was a founding trustee of the American Board of Nuclear Medicine and is a fellow of the American College of Radiology and of the American Institute of Medical and Biological Engineering. He serves as an elected member of the Institute of Medicine of the National Academy of Sciences.

As a respected member of the radiological community, Dr. Kuhl has participated in more than 400 visiting professorships and invited lectureships. To his credit, he has published more than 200 journal articles, 102 book chapters, two books, and more than 300 abstracts.

Dr. Kuhl has received honors and awards throughout this career. His most recent was the Japan Prize from the Science and Technology Foundation of Japan. He was awarded for his work in the field of technological integration of medical science and engineering and his contribution to tomographic imaging in nuclear medicine. He was also awarded the Charles F. Kettering Prize from the General Motors Cancer Research Foundation in 2000 for the most outstanding recent contribution to the diagnosis and treatment of cancer.

Dr. Kuhl has a special research interest to introduce new measures of neurochemical and metabolic processes determined within the living brain using radioactive molecular tracers and emission reconstruction tomography (PET and SPECT). A goal is to enable drug development targeted to the earliest stages of degenerative brain disease.
Monday, May 3

6:00 am–5:30 pm
Speaker Preview Room
Molly A/B, Second Level

6:30 am–4:30 pm
Registration
Elizabeth Foyer, Second Level

7:00 am–12:00 midnight
Electronic Exhibits
Randle D/E, Fourth Level

7:30 am–6:00 pm
Categorical Course on Efficient Imaging
There is an additional fee to attend this course.
Manchester Ballroom, Second Level

9:30 am–10:30 am
Caldwell Lecture: Dr. Benjamin Chu
(coffee will be served at the Caldwell Lecture)
Coffee Break in the Exhibit Hall
Douglas B, Lobby Level

12:00 noon–1:00 pm
Lunch in the Exhibit Hall
Elizabeth Ballroom, Second Level

2:30 pm–3:30 pm
Scholars and Awards Session
Elizabeth F, Second Level

3:00 pm–4:00 pm
Soda Break in the Exhibit Hall
Elizabeth Ballroom, Second Level

Corporate Sponsored Activity

7:00 am–8:00 am
Latest Clinical Investigations using 320 Detector Row CT—Frank Rybicki, MD
Sponsored by Toshiba America Medical Systems
(Breakfast will be available for the first 130 attendees)
Douglas D, Lobby Level
Annual Scholarship Program

Medical schools, affiliated hospitals and clinical research institutions are invited to nominate one candidate for the 2011 ARRS scholarship program. The candidate must be a member of the ARRS at the time the application is submitted and for the duration of the award.

The scholarships are intended to support study that will enable the scholar to acquire knowledge, skills and training in areas that are vital to the future of radiology and to attain his or her professional career goals.

Up to two scholarships of $140,000 each are funded annually. Scholars may choose a one-year program requiring a minimum 80% time commitment or a two-year program requiring a minimum 50% time commitment. The scholarships are funded through a grant from The Roentgen Fund®.

The general requirements for candidates are:
• MD or DO from an accredited institution;
• completion of all required residency, fellowship training or equivalent;
• certification by the American Board of Radiology or equivalent;
• full-time faculty appointment as a lecturer, instructor, assistant professor or equivalent for no more than five years beyond completion of training.
• The candidate must be a member of the ARRS at the time the application is submitted and for the duration of the award.

The appointment must be in a department of radiology, nuclear medicine, or an associated department in the radiological sciences of a medical school teaching hospital in the U.S. or Canada.

Selection will be based on the competence and promise of the candidate in research, education or administration related to medical imaging as indicated by the institution making the nomination; evidence that an environment will be provided that is conducive to well-rounded professional development; and personal qualities of the candidate that indicate that he or she is a scholar and leader with exceptional potential.

Acceptance of an award from another source for the same or similar project is prohibited unless one source provides salary support only and the other source provides support only for non-personnel research expenses.

For more information about the scholarship program and application procedures, visit the ARRS Website (www.arrs.org) or telephone 800-347-7748 or 703-648-8900.

The deadline for submission of applications is November 15, 2010.
Monday Schedule

7:00 am-8:00 am

Power Hour: Breast Imaging—E. Newstead, moderator

Randle B, Fourth Level

E001. Radiologic-Pathology Correlations in Breast Imaging: A Primer for Radiologists—J. Bykowski


E024. Detection and Reporting of Extramammary Findings During Breast MRI—H. Ojeda-Fournier

E025. Optimal Timing of Breast MRI Examinations for Premenopausal Women Who Do Not Have a Normal Menstrual Cycle—R. Ellis

E027. Breast MRI: An Algorithm for Successful Cancer Diagnosis—M. Yepes

E029. Optimizing 1.5 T and 3.0 T Contrast-Enhanced Dynamic Breast MRI Examinations for Breast Biopsy. Combined Use of Color and Strain Ratio Assessment—F. Kumm

7:00 am-8:00 am

Power Hour: Nuclear Medicine—E. Rohren, moderator

Randle A, Fourth Level


7:30 am-6:10 pm

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

Manchester Ballroom, Second Level

7:30 am-8:00 am

Dementia: Role of MR Imaging for Diagnosis—M. Petrou

8:00 am-8:30 am

Dementia: Role of PET Imaging for Prognosis—S. Minoshima

8:30 am-9:10 am

Traumatic Brain Injury: When and How to Image and Prediction Criteria—Y. Anzai

9:10 am-9:30 am

Traumatic Brain Injury: Advanced Imaging Techniques—R. Lee

10:00 am-10:30 am

Nontraumatic Acute Intracerebral Hemorrhage: Diagnostic Work-Up and Algorithm—J. Kim

10:30 am-11:00 am

Nontraumatic Acute Intracranial Hemorrhage: Treatment of Cerebral AVN—B. Ghodke

11:00 am-11:30 am

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

11:30 am-12:00 noon

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

1:00 pm-2:00 pm

Appendicitis—C. Blackmore, J. Rhea

2:00 pm-2:30 pm

Imaging of Appendicitis in Pregnancy—D. Katz

2:30 pm-3:00 pm

Abdominal Ischemia—J. Kirkpatrick

3:30 pm-4:00 pm

Obstruction—M. Staunton

4:00 pm-4:30 pm

Abdominal Trauma—J. Gross

4:30 pm-5:00 pm

Imaging in Acetabular Trauma—A. Wilson

5:00 pm-5:30 pm

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

5:30 pm-5:50 pm

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

5:50 pm-6:10 pm

Pediatric Musculoskeletal Imaging: Imaging in Scoliosis—G. Khan

8:00 am-9:30 am

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

Douglas C, Lobby Level

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

Elizabeth G, Second Level

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

Elizabeth F, Second Level

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

Douglas A, Lobby Level

IC105. Thromboembolic Axis of Evil: DVT, PE and IVC Filters—T. Burdick, T. Kooy, L. Findeiss

Elizabeth H, Second Level


Connaught, Third Level

001. Ultra Low Dose MDCT Evaluation of the Axial Skeleton: A Comparison of Dose and Subjective Clinical Efficacy

Lu, M.; Chen, J.; Daly, B.; Yang, Z.; Siegel, E. University of Maryland, Baltimore, MD

002. Valkyrie: Automated Framework for Digital Radiation Dose Reporting from CT Dose Reports

Monday Schedule

003. Intravenous Contrast Extravasation Events During CT Scans: Documentation and Outcomes at an University Teaching Hospital
Lee, E.; Solle, M.*; Fielding, J. UNC School of Medicine, Chapel Hill, NC

004. Simulation Lab Training for Radiology Residents in the Management of Contrast Reactions
Sarwani, N.*; Tappouni, R. Penn State Milton S. Hershey Medical Center, Hummelstown, PA

005. Analysis of Communication and Follow-Up of Urgent and Unexpected Findings on Diagnostic Imaging Studies
Mittal, D.1*; Siegel, E.1,2 1. University of Maryland School of Medicine, Baltimore, MD; 2. Baltimore VA Medical Center, Baltimore, MD

006. Do Patients Get Follow-Up Studies on Schedule? Analysis of the Follow-Up Timeline for Pulmonary Nodules Using PRESTO
Cook, T.*; Itri, J.; Boonn, W.; Kim, W. Hospital of the University of Pennsylvania, Philadelphia, PA

007. Patient Management-Changing Errors in Recall of Radiologic Results
Yerubandi, V.; Brus-Ramer, M.*; Newhouse, J. Columbia University, New York, NY

008. Assessment of Integrated PET/CT and Diagnostic CT Structured Report for Oncologic Patients
Gandhi, N.*; Shah, S.; Raghavan, D.; Pohlman, B.; Obuchowski, N.; Herts, B. Cleveland Clinic Foundation, Cleveland, OH

* Presenting Author

9:30 am-10:30 am

Caldwell Lecture

Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region

Douglas B, Lobby Level

Dr. Benjamin K. Chu has been the regional president of Kaiser Permanente Southern California since 2005. He directs health plan and hospital operations for 13 hospitals and 130 medical offices in an area that ranges from Bakersfield to San Diego to serve more than 3.2 million members. A primary care Internist by training, Dr. Chu possesses extensive health care experience as a clinician, administrator, and policy advocate. He has a strong interest in and supports the use of the electronic health record as a powerful tool for improving quality and outcomes for patient care.

Early in his career, Dr. Chu became absorbed with trying to understand the health care delivery system in the United States. His experiences and work have focused on efforts to mold and change the system to encompass vulnerable segments of the population not broadly cared for by the mainstream. His strength has not been in the pursuit of an academic approach to these problems but rather in his ability to balance complex interests and issues in an attempt to forge practical approaches to improving the system.

Before joining Kaiser Permanente, Dr. Chu served for three years as president of New York City’s Health and Hospitals Corporation (HHC), the largest public hospital system in the country. He served as senior vice president for medical and professional affairs at HHC from 1990 to 1994. During that time, he also served as acting Commissioner of Health for the New York City Department of Health.

Dr. Chu also has extensive experience working in academics. He served as senior associate dean at Columbia University College of Physicians and Surgeons and served at the New York University School of Medicine and Medical Center in a variety of leadership roles.

In addition, he was also a Robert Wood Johnson Policy Fellow and a past health policy legislative assistant for former New Jersey Senator Bill Bradley.

In 1974, Dr. Chu received his bachelor’s degree in psychology from Yale University and in 1978 received his medical degree from New York University. He earned his master’s of public health from Columbia University in 1989.
10:30 am-12:00 noon

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

**Douglas A, Lobby Level**

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

**Douglas C, Lobby Level**

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

**Douglas B, Lobby Level**


**Elizabeth H, Second Level**

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

**Elizabeth G, Second Level**

SS1. Efficacy, Education and PACS: Policy and Operations—Moderators:
E. Fraile-Moreno, B. Richmond; Keynote: Informatics for Operational Efficiency 2.0—D. Channin

**Randle A, Fourth Level**


Levin, D.‡; Rao, V.; Parker, L.; Frangos, A. Thomas Jefferson University Hospital, Philadelphia, PA

010. Quality Control Checking of Pediatric CT Scans by a Radiologist: Is it Necessary Before the Patient Leaves the Scanner?

Podberesky, D.‡; Fadell, M.; Salisbury, S.; Larson, D. Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

011. Do Digital Pictures Add to the Interpretation of Diagnostic Imaging: A Survey Along the Spectrum of Experience

Weiss, F.‡; Safdar, N. University of Maryland Medical Center, Baltimore, MD


Prabhakar, A.‡; Saksera, M.; Hahn, P.; Mueller, P.; Harisinghani, M. Massachusetts General Hospital, Boston, MA

013. A Neural Network to Expedite and Standardize Editorial Review of AJR Manuscripts

Lee, S.‡; Hahn, P.; Scott. J. Massachusetts General Hospital, Boston, MA

014. Construction of a Model to Assess the Financial Impact of Voice Recognition in a Diagnostic Radiology Department

Berlin, J.; Hawes, H.‡; Zawodniak, A. NorthShore University Health System, Evanston, IL

015. New Software Models for Next Generation PACS Workstations

Laks, M.‡ Albert Einstein Medical School-Montefiore Medical Center, Flushing, NY

016. Verification Bias: An Under-Recognized Source of Error in Assessing the Efficacy of Medical Imaging

Petscavage, J.‡; Richardson, M. University of Washington, Seattle, WA

1:00 pm-2:30 pm

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

**Douglas C, Lobby Level**

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

**Elizabeth H, Second Level**

IC113. Overutilization—J. Thrall, P. Basu

**Elizabeth G, Second Level**


**Douglas B, Lobby Level**

017. Incidental Pleural Effusions on Screening Breast MRI

Nguyen, J.‡; Harvey, J. University of Virginia Health System, Charlottesville, VA

018. Indeterminate Breast Lesions Detected on MR Imaging in Women With a High Risk of Breast Cancer: Value of Short-Term Follow-up for Diagnosis

Korzeniowski, M.‡; Figueira, K.; Phang, S.; Minuk, T.; Dhamanaskar, K. McMaster University, Hamilton, Canada

019. Role of MRI in the Planning of Breast Conservation Surgery in Patients With Paget Disease of the Nipple

Dominelli, V.‡; Pediconi, F.; Luciani, M.; Telecsa, M.; Vasselli, F.; Casali, V.; Catalano, C.; Passariello, R. University of Rome “La Sapienza”, Rome, Italy

020. Retrospective Analysis of Post-Surgical Changes Seen on Breast MRI

Ojeda-Fournier, H.‡; Aiken, M.; Brogich, L. University of California San Diego, San Diego, CA

021. Breast Biopsy Markers—Conventional Versus Carbon Coated, Affect on MR Susceptibility Artifact and Local Signal Disturbance

Ghate, S.‡; Hawkins, A.; Baker, J.; Soher, B. Duke University Medical Center, Durham, NC

022. Effectiveness of Morphology Assessment Using a CAD System for Detection of Infiltrating Lobular Carcinoma at Dynamic Contrast-Enhanced MRI


023. Does Breast Density Have an Impact on the Indications for MRI?

Luciani, M.‡; Pediconi, F.; Dominelli, V.; Telecsa, M.; Vasselli, F.; Caretta, C.; Catalano, C.; Passariello, R. University of Rome “La Sapienza”, Rome, Italy

024. Should Routine Breast Cancer Staging Include MRI?

Pediconi, F.‡; Dominelli, V.; Luciani, M.; Telecsa, M.; Vasselli, F.; Caretta, C.; Catalano, C.; Passariello, R. University of Rome “La Sapienza”, Rome, Italy
Monday Schedule

025. Preoperative MRI of the Breast: Does It Affect Local Recurrence Rates? 
   Dominelli, V.; Pediconi, F.; Luciani, M.; Teleca, M.; Casali, V.; Vasselli, F.; 
   Catalano, C.; Passariello, R. University of Rome “La Sapienza”, Rome, Italy

026. SER Volume Predicts Malignancy in MRI-Detected Breast Lesions 
   Occult to Mammography and Palpation 
   University of California, San Francisco, San Francisco, CA

1:00 pm-3:00 pm

SS4. Gastrointestinal Imaging: CT Radiation Dose—Moderators: 

027. Age and Sex Specific Radiation Risks at Abdominal CT 
   Koonce, J.;

028. How Does Patient Size Affect Radiation Doses at Abdominal CT With Automatic Exposure Control? 
   Koonce, J.;

029. Comparison of Iterative and Filtered Back Projection Techniques for Abdominal CT: A Prospective Double Blinded Clinical Study 
   Singh, S.; Kalra, M.; Hsieh, J.; Doyle, M.; Licato, P.; Blake, M. 
   Massachusetts General Hospital, Boston, MA; 2. GE Healthcare, Waukesha, WI

030. Adaptive Statistical Iterative Reconstruction (ASIR) of Raw Chest, Abdomen and Pelvis CT Data Reduces Radiation Dose while Maintaining Image Quality 
   Kaplan, J.; Simpson, W.; Lee, K.; Tanenbaum, L. Mount Sinai Medical Center, New York, NY

031. Effect of Different Percentages of Adaptive Statistical Iterative Reconstruction on the Image Quality of Low Dose 64 Slice Liver MDCT Exams 
   Mitsumori, L.; Kolokythas, O.; Koprowicz, K.; Alessio, A.; May, J.; Gunn, M.; Shuman, W. University of Washington, Seattle, WA

032. Prospective Evaluation of Effect of 2D Adaptive Filters on Low Radiation Dose Chest and Abdominal CT 
   Singh, S.; Kalra, M.; Sharma, A.; Forsberg, A.; Shepard, J.; Digumarti, S. 
   1. Massachusetts General Hospital, Boston, MA; 2. Sharpview, Linkoping, Sweden

033. Low Dose Iodine Contrast Media Monitoring Scan for CT: Is it Reliable to Assess Hepatic Steatosis? 
   Husarik, D.; Boll, D.; Nelson, R.; Merkle, E. Duke University Medical Center, Durham, NC

034. Logarithmic Pixel Transformation to Increase Contrast to Noise Ratios for Detection of Liver Lesions: Does it Work? 
   Grand, D.; Machan, J.; Beland, M.; Mayo-Smith, W. Warren Alpert School of Medicine, Brown University, Providence, RI

035. Value of the Unenhanced and Delayed Series in MDCT of the Liver in Screening for Hepatocellular Carcinoma: Can One Series Be Eliminated to Reduce Dose? 
   Luke, F.; Jaffe, T.; Massey, C. Duke University Medical Center, Durham, NC

1:00 pm-2:30 pm

SS5. Vascular and Interventional Radiology—Moderators: 
   M.G. Knuttinen; T. Carrillo; Keynote: Endovascular Management of Massive Pulmonary Embolism—C. Owens

Randle A, Fourth Level

036. To Evaluate the Diagnostic Quality of 64-Slice CT Angiography of the Pulmonary Arteries Using a Bolus-Chase Contrast Agent Injection Protocol for Ruling out Pulmonary Embolism 
   Douwe, D.; Vries, de, M.; Schiereck, J.; Graaf, de, R.; Dannenberg, E.; Wildberger, J.; Lussanet, de, Q. 
   1. Maastricht University Medical Center, Maastricht, Netherlands; 2. Erasmus Medical Center, Rotterdam, Netherlands; 3. Slingeland Ziekenhuis, Doetinchem, Netherlands; 4. Groene Hart Ziekenhuis, Gouda, Netherlands

037. Detection of Refrused Pulmonary Arteriovenous Malformations With Contrast-Enhanced MR Angiography 
   Schneider, G.; Massmann, A.; Katoh, M.; Geisthoff, U.; Buecker, A. 
   1. Saarland University Hospital, Homburg, Germany; 2. Klinik der Stadt Koeln (HNO Klinik), Koeln, Germany

038. Can CT Features Differentiate Between Inferior Vena Cava Leimyosarcomas and Primary Retroperitoneal Masses? 
   Webb, E.; Wang, Z.; Westphalen, A.; Nakakura, E.; Cookley, F.; Yeh, B. 
   University of California, San Francisco, San Francisco, CA

039. Interventional Oncology Research: Slowing Growth, Limited Focus, and Inadequate Funding 
   Chow, D.; Itagaki, M. University of California, Los Angeles, Los Angeles, CA

040. Catheter-Free Survival Following Primary Percutaneous Stenting of Malignant Bile Duct Obstruction 
   Frank, B.; Thornton, R.; Covey, A.; Maybody, M.; Solomon, S.; Getrajdman, G.; Brown, K. 
   1. Weill Cornell Medical School, New York, NY; 2. Memorial Sloan Kettering Cancer Center, New York, NY

041. Refractory Ascites and TIPS With Covered Stents: A Single Center Experience 
   Christenson, B.; Ray, C.; Gupta, R.; Kondo, K.; Forman, L.; Durham, J. 
   University of Colorado, Golden, CO

042. Low kVp Contrast-Enhanced CT: Can Imaging Closer to the k—edge of Iodine Allow for a Reduction in Contrast Media? 
   1. Duke University Medical Center, Durham, NC; 2. Duke University, Durham, NC

* Presenting Author
Dr. Karen Ordovas received her MD from the Universidade Federal do Rio Grande do Sul in Brazil and completed her radiology residency training in Porto Alegre, Brazil, in 2001. After two years of private practice radiology in Brazil, Dr. Ordovas moved to the United States and completed her three-year research and clinical fellowship training in cardiothoracic radiology at the University of California San Francisco (UCSF). She has a special interest in advanced cardiothoracic imaging including MRI and coronary CTA.

Dr. Ordovas is currently an assistant professor of cardiothoracic radiology at UCSF where she is also chair of the cardiothoracic section research committee. As chair, she is involved in the mentoring of local and international fellows and residents in their research efforts.

The ARRS Scholarship Award will help Dr. Ordovas solidify her skills as a clinical researcher and engage in activities that will augment her knowledge and experience in several aspects necessary for a successful academic career. She will enroll in the UCSF Department of Epidemiology and Biostatistics master’s degree program on clinical research, which will allow her to learn additional methods required to perform clinical research and improve her data analysis, interpretation, and presentation skills. Her long-term career goal is to become a national leader in cardiothoracic imaging by continuing her research using state of the art imaging methods for understanding and diagnosing cardiovascular disease.

Her current research project aims to determine the accuracy of coronary CTA for measuring severity of wall thickening and luminal loss in coronary allograft vasculopathy. If demonstrated to be accurate, CTA could be used to detect early disease in transplant patients. It is an attractive noninvasive, safer, and less expensive alternative to conventional coronary angiography for long-term surveillance and could be used for monitoring coronary allograft vasculopathy severity and response to treatment. In addition, this study could provide further knowledge in the ability of coronary CTA to identify coronary wall thickening which could be an important predictor for cardiac disease in multiple clinical scenarios.

Dr. Ordovas is a member of several professional organizations including the ARRS, where she serves on the Maintenance of Certification Subcommittee; the Society for Cardiovascular Magnetic Resonance, where she serves on the program committee; the Radiological Society of North America (RSNA), where she serves on both the meeting abstract committee and the North American Society for Cardiac Imaging, where she serves on the research committee.

In the past three years, Dr. Ordovas has published 15 peer-reviewed papers, and has presented 14 scientific abstracts at meetings of the ARRS, the RSNA, the Society of Cardiovascular Magnetic Resonance, and the American Heart Association. She received the RSNA R&E research fellow grant in 2006 for a project entitled “MRI Assessment of Right Ventricular Function After Repair of Tetralogy of Fallot.” She also received a certificate of merit from the RSNA for her educational exhibit entitled “Tetralogy of Fallot: MRI Evaluation of Late Postoperative Complications” in 2005.

**2010 ARRS Berlin Scholar in Medical Professionalism**

**Bruce J. Barron, MD, MHA, FACNM**

Emory University

Dr. Bruce Barron received his MD from the University of South Florida College of Medicine in Tampa, FL, and completed his Internship and residency in pediatrics at Miami Children’s Hospital in Miami, FL. He completed his residency in nuclear medicine at the George Washington University Medical Center in Washington, DC, in 1981, and attained his master’s of health care administration (MHA) degree at Texas Women’s University School of Healthcare Administration in Houston, TX, in 2000. He has a special interest in developing and promoting competency in medical professionalism.

Dr. Barron is currently a professor of radiology at the Emory University School of Medicine in Atlanta, GA; a visiting professor of radiology at the University of Texas–Houston; and an adjunct associate professor of radiology at the Baylor College of Medicine in Houston. Dr. Barron also works as a physician for the Emory University Hospital; the Department of Veterans Affairs Medical Center; Grady Memorial Hospital; and is the chief of the nuclear medicine department at Emory University Hospital Midtown.

The Berlin Scholarship Award will help Dr. Barron participate in a new master’s program in bioethics at Emory University which will help him expand his knowledge of medical professionalism. The program deals with many of the current issues faced by ethics committees, physicians, and residents. Dr. Barron is interested in researching the actual and expected aspects of medical professionalism in various cultures and he has planned a project that focuses on changes in medical professionalism as a patient ages and approaches end-of-life situations. He will look at imaging and radiological therapy patterns in end-of-life situations and hopes to develop some guidelines to help radiologists face these issues.

Passionate about his career, Dr. Barron is a member of various professional organizations, including the American Roentgen Ray Society; the Radiological Society of North America; the Society of Nuclear Medicine, where he serves on the ethics committee; and the American College of Nuclear Medicine, where he is a fellow.

To his credit, Dr. Barron has had more than 30 articles published in various trade and medical publications. In addition, he has had five book chapters, and more than 80 abstracts published to date.
Monday Schedule

2010 Melvin M. Figley Fellowship in Radiology Journalism

Manjiri K. Dighe, MD
University of Washington School of Medicine, Seattle, WA

Dr. Manjiri Dighe is an assistant professor in body imaging and director of ultrasound at the University of Washington School of Medicine in Seattle, WA. She received her MD from the University of Bombay in Mumbai, India, after completing her radiology residency in 2002. She completed a fellowship in body imaging at the University of Washington School of Medicine in 2004. Dr. Dighe will use the Figley fellowship to gain insight into the fundamentals of medical journalism.

Jeffrey P. Kanne, MD
University of Wisconsin School of Medicine, Madison, WI

Dr. Jeffrey Kanne is associate professor and vice chair of quality and safety in the division of cardiothoracic imaging at the University of Wisconsin School of Medicine and Public Health in Madison, WI. He received his MD from the Emory School of Medicine in Atlanta, GA, and completed his radiology residency at the University of Washington in Seattle, WA, in 2005. He completed a fellowship in thoracic radiology at Vancouver General Hospital in Vancouver, BC, in 2006. Dr. Kanne will use the Figley fellowship to further his skills as a medical writer and gain knowledge of and insight into the editorial process.

2010 Lee F. Rogers International Fellowship in Radiology Journalism

Arumugam Rajesh, FRCR
University Hospitals of Leicester, England

Dr. Arumugam Rajesh is a staff radiologist at the University Hospitals of Leicester in England where he completed his radiology residency in 2002. He completed a fellowship in abdominal imaging at Indiana University Medical Center in Indianapolis, IN. As part of the same program, he spent one month at the University of California San Francisco Medical Center learning MR spectroscopy. Dr. Rajesh will use the Rogers fellowship as an opportunity to enhance his publishing and editing skills.

Residents in Radiology President’s Award

Andrew L. Rivard, MD, MS
University of Florida, Gainesville, FL

Coronary Artery Pediatric Heart Transplant Evaluation Using CT (CAPHTECT) Study

Objective: This study was initiated to assess whether coronary CTA is a clinically relevant noninvasive option to evaluate coronary artery disease in pediatric heart transplant patients.

Materials and Methods: Pediatric heart transplant patients had been clinically chosen for a coronary CTA based upon age and risk benefit factors versus conventional catheter coronary angiograms. Patient Information was retrospectively reviewed following IRB approval. All patients were imaged using a scanner following IV contrast administration. The images were processed on a workstation and graded for quality, contrast opacification, and coronary artery disease. Estimated effective radiation dose for each patient was calculated in mSv based upon height and weight. Standard transplant risk factors for coronary disease including rejection, number of donor to recipient HLA mismatches, graft ischemic time, and donor or recipient age were compared.

Results: Thirteen pediatric heart transplant patients underwent coronary CTA studies. The mean scan time and effective dose were 2.8 ± 1.5 sec. and 22.7 ± 9.3 mSv, respectively. Out of a four point scale, the scores for image quality and contrast opacification were 2.4 and 2.6. Six patients had positive studies for coronary artery disease; three with nonsignificant (<50% narrowing); and three with significant (>50%) disease. Coronary artery disease correlated to biopsy positive rejection (p=0.05) but not to mismatches, ischemic time, or age.

Conclusions: This is the first study to demonstrate that coronary artery disease correlates with prior rejection episodes and can be noninvasively detected in pediatric heart transplant patients using coronary CTA. Thus, first line surveillance of rejection in pediatric heart transplant recipients using coronary CTA should be considered prior to catheter based angiograms.

This award winning abstract will be presented as part of the pediatric imaging power hour on Wednesday, May 5 at 7:00 am–8:00 am.
Monday Schedule

Residents in Radiology Executive Council Award

Matthew Scott Davenport, MD
University of Michigan, Ann Arbor, MI

Hyperglycemia in Hospitalized Patients Receiving Corticosteroid Premedication

Objective: To assess the effect of short-term corticosteroid premedication on serum glucose in hospitalized patients.

Material and Methods: Serum glucose in adult Inpatients before and after corticosteroid premedication was compared to serum glucose in non pre-medicated controls. Patients were placed into nine cohorts. Cohorts were defined by the use or non-use of Intravascular nonionic contrast medium (IV or IA) and corticosteroid premedication (oral or IV). Patients were further subdivided by the presence or absence of diabetes mellitus (type I or type II). Results were analyzed with ANOVA and a step-wise linear regression analysis.

Results: There were 426 corticosteroid premedication episodes in 426 patients; 877 examinations in 848 patients served as controls. Cohorts receiving corticosteroid premedication experienced a brief (24-48 hours) increase in mean maximum post-baseline serum glucose (IV, +80 mg/dl; oral, +69 mg/dl) that was greater than the increase in non pre-medicated controls (+46 mg/dl). Type I (+144 mg/dl) and type II (+109 mg/dl) diabetics had a greater elevation than non-diabetics (+34 mg/dl). Both corticosteroid premedication (IV, p=0.02; oral, p=0.01) and diabetes mellitus (type I, p=0.0002; type II, p<0.0001) were significant independent risk factors of hyperglycemia. The use of nonionic Intravascular contrast medium was not (p=0.7). There was no significant difference between IV and oral premedication (p=0.6), or type I and type II diabetes mellitus (p=0.8).

Conclusions: Diabetes mellitus (type I and type II) and corticosteroid premedication (oral and IV) are significant independent risk factors for the development of brief hyperglycemia near the time of Inpatient radiology studies.

This award winning abstract will be presented as part of the general/emergency power hour on Thursday, May 6 at 7:00 am–8:00 am.

Residents in Radiology Executive Council Award

Jeffrey Parke Otjen, MD
University of Washington, Seattle, WA

Clinical Radiology Practice Quality Improvement: Can We Eliminate the Routine Chest Radiograph for Mechanically Ventilated Patients?

Objective: Routine daily chest radiographs are often obtained for mechanically ventilated patients. There are conflicting data in the literature regarding the utility of this practice. Combining a clinician survey with radiology findings, we examined the utility of this practice.

Materials and Methods: Patients in a university affiliated level 1 trauma center were identified by review of electronic medical records, from surgical and medical intensive care units. Radiograph reports were categorized into three groups – no significant new findings, minor new findings, or major new findings. Scoring was performed by two radiology residents. To better determine their clinical significance, a survey was devised using the report analysis, and was given to intensive care unit clinicians.

Results: 4070 studies for 562 patients were evaluated. 83%, 16%, and 1% were placed in the no new finding, minor new finding, and major new finding groups, respectively. Based on the survey, some findings were universally regarded as valuable, though many findings found valuable by some clinicians had little value to others. Approximately 50% stated a “no change” radiograph was valuable, yet this would change management for less than 2%. Integrating the results of the clinician survey with the report analysis data clarified which findings were truly significant. Combining data showed that for most clinicians, more than 95% of studies would not alter management.

Conclusions: As defined by the potential to alter management, these studies are of low utility. However, there are other difficult to quantify measurements of utility and these will continue to fuel future debate.

This award winning abstract will be presented as part of the cardiopulmonary power hour on Wednesday, May 5 at 7:00 am–8:00 am.
4:00 pm–5:30 pm

IC114. Pancreatic Imaging: Practical Approach to the Cystic Lesion—K. Martelle; Pitfalls in Pancreatic Imaging—M. Federle; Solid Pancreatic Neoplasms—D. Morgan

Douglas C, Lobby Level

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

Elizabeth H, Second Level

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

Douglas B, Lobby Level

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

Elizabeth G, Second Level

4:00 pm–6:00 pm


Douglas A, Lobby Level

043. Shoulder Glenoid “Dysplasia”: Is Glenoid Morphology Related to Weightlifting at an Early Age? Delport, A.1*; Morrison, W.; Zoga, A. Thomas Jefferson University Hospital, Philadelphia, PA

044. Prevalence of Glenoid Paralabral Cysts and Their Association With Labral Tears Dobre, C.1*; Ziegelbein, J.; Bennett, D.; Ahn, J. University of Iowa Hospitals and Clinics, Iowa City, IA


047. “Bone Marrow Edema” of the Femoral Head in Hip Osteoarthritis: MR Imaging Findings With Histological Correlation Le Carrouller, T.1*; Leydet-Quilici, H.; Bouvier, C.; Pham, T.; Argenson, J.; Lafforgue, P.; Champaur, P. Hôpital Sainte Marguerite, Marseille, France

048. MR Arthrographic Appearance of the Ligamentum Teres: Variations of Normal and Patterns of Injury Sadej, P.1*; Zoga, A.; Morrison, W. Thomas Jefferson University Hospital, Philadelphia, PA

049. Maturation of Bioabsorbable Interference Screw Fixation of Anterior Cruciate Ligament Grafts as Evaluated by MRI Umans, H.1*; Park, B.; Bakhru, P.; Difelice, G.1 1. Jacobi Medical Center, Bronx, NY; 2. Albert Einstein College of Medicine, Bronx, NY

050. Wisbreg Variant of the Discoid Lateral Meniscus Presenting as Bucket-Handle Tear: MRI and Arthroscopic Correlation Yue, B.1*; Gupta, A.; Garrett, W.; Helms, C. Duke University Medical Center, Durham, NC

051. The Diaphyseal Adult Femoral “Torus” Fracture - DFTR From Focal Flare to Frank Fracture Non-Traumatic Lateral Cortical Diaphyseal Femoral Fracture Feldman, F.1* Columbia Presbyterian Medical Center, Bronx, NY

052. The Spring Recess of the Anterior Subtalar Joint: Depiction on MR Images With Cadaveric Correlation Desai, K.1*; Beltran, L.1; Bencardino, J.1; Sadka Rosenberg, Z.1; Petchprapa, C.1 1. Mount Sinai School of Medicine, New York, NY; 2. NYU Hospital for Joint Diseases, New York, NY

053. Predictive Value of Knee Symptoms Identified on Patient Questionnaire for MRI Findings of Knee Pathology Mathews, J.1*; Utz, M.; Zoga, A.; Sadej, P.; Morrison, W. Thomas Jefferson University Hospital, Philadelphia, PA

4:00 pm–6:00 pm

SS7. Nuclear Medicine—Moderators: D. Yoo, T. Wong; Keynote: PET Response Criteria in Solid Tumors (PERCIST 1.0)—H. Jacene

Randle A, Fourth Level

054. Impact of Image Reconstruction Parameters on SUV in FDG-PET Adams, M.1*; Wong, T.; Wilson, J.; Turkington, T. Duke University, Durham, NC

055. Semiquantitative Analysis of Maximum Standardized Uptake Values of Regional Lymph Nodes in Inflammatory Breast Cancer Patients: Is There a Reliable Threshold for Differentiating Benign from Malignant? Carkaci, S.1*; Adrada, B.; Rohren, E.; Wei, W.; Quraishi, M.; Mawlavi, O.; Buchholz, T.; Yang, W. MDACC, Houston, TX

056. Brown Fat on PET/CT: Correlation With Patient Characteristics Cronin, C.1*; Prakash, P.; Daniels, G.; Kolra, M.; Palmer, E.; Blake, M. Massachusetts General Hospital, Boston, MA

057. Systematic Review of Brown Adipose Tissue Uptake in Pediatric FDG PET/CT Wang, C.1*; MacDonald, L.1; Ali, S.; Wu, S. Johns Hopkins Medical Institute, Baltimore, MD

058. Correlation of Estrogen, Progesterone and Her2neu Receptor Status and 18-Fluorodeoxyglucose in Positron Emission Mammography Wang, C.1*; MacDonald, L.1; Rogers, J.1; Haseley, D.1; Beatty, D.1 1. University of Washington, Seattle, WA; 2. No Institutional Affiliation

059. Optical Imaging of Neural Progenitor Cell Homing to Patient—Derived Chronic Myelogenous Leukemia Newton, J.1*; Messina-Graham, S.; Shih, A.; Abrahamsson-Schairer, A.; Jamieson, C.; Mattrey, R. UCSD, San Diego, CA

060. The Impact of FDG PET/CT in the Management of the Unknown SCC Primary in the Head and Neck: Results of a Prospective Trial Nasoodi, A.1*; McCaul, D.; Fahy, C.; Primrose, W.; Ullah, R.; Hughes, S. Royal Victoria Hospital, Belfast, United Kingdom

061. The Diagnostic Correlation of the Pattern of Sulcal Atrophy With the Pattern of Metabolism on PET/CT Imaging Wilner, A.1*; Birnie, K.; Lu, S. Monmouth Medical Center, Long Branch, NJ

062. Changes in Patient Selection Greatly Alter Helpfulness of the 99m—Tc Sestamibi Parathyroid Scan in Clinical Practice Rodgers, B.1*; Blank, B.; Kandil, E.; Palacios, E.; Friedlander, P. Tulane University, New Orleans, LA
**Tuesday, May 4**

6:00 am–6:00 pm  
Speaker Preview Room  
Molly A/B, Second Level

6:30 am–4:30 pm  
Registration  
Elizabeth Foyer, Second Level

7:00 am–12:00 noon  
Categorical Course on Efficient Imaging  
There is an additional fee to attend this course.  
Manchester Ballroom, Second Level

7:00 am–12:00 midnight  
Electronic Exhibits  
Randle D/E, Fourth Level

8:00 am–9:30 am  
As part of ARRS’ Global Exchange with South Korea, we are honored to have Dr. Joon Koo Han participate in IC201 as follows:  
IC201. Navigating CT and MRI of the Liver: MRI Technique and Diffuse Liver Disease—J. Leyendecker; Hepatocellular Disease—T. Desser; Cholangiocarcinoma—J.K. Han  
Douglas C, Lobby Level

9:30 am–10:30 am  
Coffee Break in the Exhibit Hall  
Elizabeth Ballroom, Second Level

12:00 noon–1:00 pm  
Lunch in the Exhibit Hall  
Elizabeth Ballroom, Second Level

1:00 pm–6:30 pm  
Case-Based Imaging Review Course  
There is an additional fee to attend this course.  
Manchester Ballroom, Second Level

3:00 pm–4:00 pm  
Soda Break in the Exhibit Hall  
Elizabeth Ballroom, Second Level

**Corporate Sponsored Activity**

7:00 am–8:00 am  
New Advances in CT Radiation Dose Reduction—William Shuman, MD  
Sponsored by GE Healthcare  
(Breakfast will be available for the first 130 attendees)  
Douglas D, Lobby Level
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TUESDAY SCHEDULE

7:00 am–8:00 am

Power Hour: Abdominal Imaging—A. Qayyum, moderator
Randle B, Fourth Level
E239. Laparoscopic Port Complications: Cruising Issues: An Imaging Perspective—C. Lall
E243. Twists and Turns in the Abdomen: A Pictorial Review of Solid Organ, Hollow Viscus, and Abdominal Fat Torsions With Pathologic Correlation—R. Jesinger
E244. Guide to Hollow Visceral Surgical Procedures—A. Roberts
E259. Save the Liver Transplant: A Radiology Resident's On-Call Guide—D. Rausch
E276. Parasitic Disease of the Liver: A Review of the Spectrum of Disease and Appearance—J. Shriki
E352. MR Imaging of Pelvic Floor Dysfunction: A Practical Diagnostic Approach—R. Ram

7:00 am–8:00 am

Power Hour: Vascular and Interventional Radiology—A. Nemcek, moderator
Randle A, Fourth Level
E655. Estimated Effective Dose of CT-Guided Thoracic Procedures—G. Foltz
E656. Incidence and Clinical Outcome of Acute Ischemic Cholecystitis After Transarterial Chemoembolization (TACE) of Hepatocellular Carcinoma—U. Wagnet
E663. Fluoroscopic Guided Removal of Renal Transplant Ureteral Stents: Technique of Choice—S. Shamimi-Noori
E669. Solid Visceral Injuries: Imaging and Intervention—B. Kapoor
E676. Parasitic Disease of the Liver: A Review of the Spectrum of Disease and Appearance—J. Shriki
E352. MR Imaging of Pelvic Floor Dysfunction: A Practical Diagnostic Approach—R. Ram

7:00 am–12:00 noon

Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC/E)—Setting the PAC/E of Imaging
Manchester Ballroom, Second Level
7:00 am-7:30 am
Imaging in Nonaccidental Pediatric Trauma: CNS Injury—Y. Sato
7:30 am-8:00 am
Imaging of Child Abuse: Non-CNS Injury—K. Applegate
8:00 am-8:40 am
Imaging of the Pediatric Abdomen: Pyhlic Stenosis and Malrotation—M. Hernanz Schulman
8:40 am-9:20 am
Imaging of the Pediatric Abdomen: Appendicitis/Intussusception—K. Applegate

9:20 am-10:00 am
Imaging of the Pediatric Abdomen: Abdominal Neoplasms—M. Siegel
10:30 am-11:00 am
Where the Rubber Meets the Road: IT in Critical Results Reporting—The Challenges and the Promises Where We Are Now and Where We Are Going—J. Chen
11:00 am-11:30 am
Where the Rubber Meets the Road: Evidence-Based Medicine and the Courts—A. Relyea-Chew
11:30 am-12:00 noon
Where the Rubber Meets the Road: Evidence-Based Medicine and Economics/Regulations—D. Larson

8:00 am–9:30 am

IC201. Navigating CT and MRI of the Liver: MRI Technique and Diffuse Liver Disease—J. Leyendecker; Hepatocellular Tumors—T. Desser; Cholangiocarcinoma—J.K. Han
Douglas C, Lobby Level
Douglas B, Lobby Level
IC203. Rotator Cuff of the Shoulder: Why, How and Where It Fails—D. Resnick
Douglas A, Lobby Level
Elizabeth H, Second Level
IC205. Nuclear Medicine Therapies for Cancer: Radioimmunotherapy, Microspheres Therapy and Radioiodine Therapy—A. Sheikh, H. Jacene, S. Goetze
Elizabeth F, Second Level

10:00 am–11:30 am

IC206. Lateral Elbow Injuries: MRI—Z.S. Rosenberg; Ligament and Other Tendon Injuries of the Elbow: MRI—V. Khoury; Ultrasound Evaluation—M. Jacobson
Douglas C, Lobby Level
IC207. Differential Diagnosis of Basal Ganglia Lesions—M. Castillo, Z. Rumbolt
Douglas A, Lobby Level

10:00 am–12:00 noon

Elizabeth G, Second Level
## Tuesday Schedule

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<tr>
<td>10:00 am-12:00 noon</td>
<td>SS59. Cardiopulmonary Imaging—Moderators: S. Patel, M. Atalay; Keynote: Late Gadolinium Enhanced Cardiac MRI—M. Atalay</td>
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<tr>
<td></td>
<td>SS60. Cardiac MRI in Diagnosing Constrictive Pericarditis Using Diastolic Filling Fraction</td>
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<td>SS61. Imaging Appearance of Human Acellular Tissue (AlloDerm) After Breast Reconstruction</td>
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<td>SS62. Accuracy of Cardiac MRI in Diagnosing Constrictive Pericarditis Using Diastolic Filling Fraction</td>
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<td>SS63. Multimodality Breast Lesion Localization: Mathematical Relationships With Respect to Breast Size and Tissue Compliance</td>
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<td>SS64. Monitor Zooming and Detection of Microcalcifications on Digital Screening Mammograms</td>
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<td>SS67. Elastography’s Role in Predicting Benign from Malignant Breast Lesions Proscia, N.; Baker, J.; Chate, S.; Stinnett, S. Duke University Medical Center, Chapel Hill, NC</td>
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<td></td>
<td>SS70. Contrast Volumes for Short Duration Cardiovascular MDCT: How Much Do We Need? Numburi, U.; Halliburton, S.; 1. Cleveland Clinic, Cleveland, OH; 2. Cleveland State University, Cleveland, OH</td>
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<td></td>
<td>SS71. Marginal Incremental Benefit of Late Gadolinium Enhancement Imaging by MRI in the Screening of Referrals for Arrhythmogenic Right Ventricular Cardiomyopathy Papatrakou, T.; Nguyen, E.; Pou, N.; Crean, A. Toronto General Hospital, Toronto, Canada</td>
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<td>SS72. Cardiac MRI: Comparison of a 2-D Imaging Technique to a Conventional I-D Approach in LVOT Quantification Weininger, M.; Sagmeister, F.; Weidemann, F.; Koester, H.; Ritter, C.; Hahn, D.; Beer, M. University Hospital of Wuerzburg, Wuerzburg, Germany</td>
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<td>SS73. Accuracy of Cardiac MRI in Diagnosing Constrictive Pericarditis Using Diastolic Filling Fraction Ghadimi Mahani, M.; Knollmann, F.; Agrawal, P. 1. University of Michigan Health Center, Ann Arbor, MI; 2. University of Pittsburgh Medical Center, Pittsburgh, PA</td>
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<td></td>
<td>SS74. Hypertrophic Cardiomyopathy: Usefulness of Cardiac MR for the Improvement of Sudden Cardiac Death Risk Stratification Carbone, I.; Francone, M.; Cannavale, G.; Bertacchi, L.; Cannata, D.; Ciolina, F.; Cannavale, A.; Passariello, R. Sapienza University of Rome, Rome, Italy</td>
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<td>SS75. Cardiac MRI of Acute Myocardial Infarction: What is the Ideal Dose of Gadobenate Dimeglumine to Depict Delayed Enhancement? Carbone, I.; Francone, M.; Cannavale, G.; Musumeci, B.; Bertacchi, L.; Cannavale, G.; Cannata, D.; Ciolina, F.; Cannavale, A.; Passariello, R. Sapienza University of Rome, Rome, Italy</td>
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<tr>
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<td>SS76. Cardiac CT for Diagnosis and Characterization of Mitral Valve Prolapse Morris, M.; Young, P.; Suri, R.; Martinez, M.; Williamson, E. Mayo Clinic, Rochester, MN</td>
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<tr>
<td></td>
<td>SS77. Cardiac CTA Interpretation: Radiology Resident Versus Senior Cardiac Imaging Radiologist Khashper, A.; Gaspar, T.; Peled, N. Carmel Medical Center, Haifa, Israel</td>
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<tr>
<td></td>
<td>SS79. Marginal Incremental Benefit of Late Gadolinium Enhancement Imaging by MRI in the Screening of Referrals for Arrhythmogenic Right Ventricular Cardiomyopathy Papatrakou, T.; Nguyen, E.; Pou, N.; Crean, A. Toronto General Hospital, Toronto, Canada</td>
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<td>SS80. Cardiac MRI: Comparison of a 2-D Imaging Technique to a Conventional I-D Approach in LVOT Quantification Weininger, M.; Sagmeister, F.; Weidemann, F.; Koester, H.; Ritter, C.; Hahn, D.; Beer, M. University Hospital of Wuerzburg, Wuerzburg, Germany</td>
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### Elizabeth H. Second Level

- 074. Contrast Volumes for Short Duration Cardiovascular MDCT: How Much Do We Need?
  - Numburi, U.; Halliburton, S.; 1. Cleveland Clinic, Cleveland, OH; 2. Cleveland State University, Cleveland, OH

### Douglas B. Lobby Level

- 083. Detection of Liver Fibrosis: Comparison of MR Elastography and Diffusion Weighted MRI
Tuesday Schedule

084. Influence of Intravenous Gadolinium on Estimation of Liver Stiffness With MR Elastography for Evaluation of Liver Fibrosis
Venkatesh, S.1; Teo, L.1; Ang, B.1; Lim, S.1; Wee, A.1; Elman, R.2 1. National University Health System, Singapore, Singapore; 2. Mayo Clinic, Rochester, MN

085. Contrast-Enhanced CT Quantification of the Fractional Extracellular Space Volume Correlates With Diffuse Liver Disease Severity
Zissen, M.1; Aslam, R.1; Wang, Z.1; Yee, J.1; Manto, A.1; Yeh, B.1,2 1. San Francisco VAMC, San Francisco, CA; 2. UCSF, San Francisco, CA

086. Gd-EOB-DTPA Enhanced Hepatic MRI: Dose-Dependent Contrast-Dynamics of Hepatic Parenchyma and Portal Vein
Feuerlein, S.1; Boll, D.1; Gupta, R.1; Marin, D.2; Merkle, E.1 1. University of Ulm, Ulm, Germany; 2. Duke University, Durham, NC

Chu, L.1; Bonekamp, S.; Jolopezalma, P.; Mensa, M.; Geschwind, J.; Kamel, I. Johns Hopkins University, Baltimore, MD

088. What Defines Hepatic "Washout" in Triphasic MDCT?
Liu, Y.1; Shin, L.; Jeffrey, R.; Kamaya, A. Stanford University, Los Altos, CA

089. Hepatic Hemangioma: Enhancement Pattern at Gadobenate Dimeglumine and Gadoxetate Disodium-Enhanced 3T MRI
Marin, D.1; Gupta, R.1; Boll, D.1; Feuerlein, S.1; Husarik, D.1; Merkle, E.1 1. Duke University Medical Center, Durham, NC; 2. University of Ulm, Ulm, Germany

090. Categorization of Liver Lesions for Screening of Hepatocellular Carcinoma (HCC): MRI With Pathologic Correlation
Wable, S.; Weinstein, J.1; Chen, M. Albert Einstein Medical Center, Philadelphia, PA

091. Hepatocellular Carcinoma (HCC) With Indeterminate Findings at Initial CT or MRI: Does Imaging Follow-Up Allow Detection of Conclusive Imaging Findings Before Significant Tumor Growth?
Furlan, A.1; Agnello, F.2; Marin, D.2; Midiri, M.2; Lagallo, R.2; Brancatelli, G.2 1. Pittsburgh Medical Center, Pittsburgh, PA; 2. Università di Palermo, Palermo, Italy; 3. Università di Roma la Sapienza, Rome, Italy

092. New NonInvasive Ultrasound Techniques: Can They Predict Liver Cirrhosis?
Yu, H.1; Valin, C.1; Wilson, S.1 1. Foothills Medical Centre, Calgary, Canada; 2. University of Calgary, Calgary, Canada

10:00 am-3:30 pm

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

1:00 pm-3:30 pm

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


* Presenting Author
### TUESDAY SCHEDULE

#### 1:00 pm-3:00 pm

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<th>Session</th>
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<td>Value of Pathologic Analysis of Lost Tissue Fragments in the Vacuum</td>
<td>Lee, J.1,2; Mercado, C.; Hernandez, O. 1,2; Moy, L.1,2; Toth, H.1,2 1. NYU School of Medicine, Scarsdale, NY; 2. NYU Cancer Institute, New York, NY</td>
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<td>Value for Biopsy in Diagnostic Mammography</td>
<td>Alsheik, N.*;</td>
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<td>The Effect of Including BI-RADS 0 Assessments on Postive Predictive</td>
<td>Kasales, C.;</td>
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<td>Incidence of Pleomorphic and Classic Lobular Carcinoma In-Situ in Percutaneous Biopsies of the Breast: An Institutional Review</td>
<td>Kasales, C.;</td>
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<td>Management of Patients Diagnosed With Lobular Carcinoma in Situ (LCIS) at Needle Core Biopsy</td>
<td>Kasales, C.;</td>
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<td>Flat Ductal Intraepithelial Neoplasia (DIN1A) Diagnosed at Stereotactic Core Needle Biopsy: Is Excisional Biopsy Indicated?</td>
<td>Kasales, C.;</td>
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<td>Comparison of Histologic Upgrade Rates for Atypical Ductal Hyperplasia and Complication Rates Between the 11- and 8-Gauge Stereotactic Vacuum-Assisted Breast Biopsy Systems</td>
<td>Kasales, C.;</td>
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<td>Value of Pathologic Analysis of Lost Tissue Fragments in the Vacuum</td>
<td>Kasales, C.;</td>
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<td>Effect of Including BI-RADS 0 Assessments on Postive Predictive</td>
<td>Kasales, C.;</td>
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<td>Clinical and Imaging Features Associated With Breast Cancers Diagnosed in Women &lt;50</td>
<td>Kasales, C.*;</td>
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<td>Mammography Findings and Clinical Features of Triple Negative Breast Cancer</td>
<td>Kasales, C.*;</td>
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<td>Invasive Micropapillary Carcinoma: Radiographic Features in 18 Patients With This Unusual Variant</td>
<td>Mercado, C.*; Guth, A.; Mercado, C.; Moy, L.; Lee, J.; Toth, H.; Cangiarella, J. NYU School of Medicine, New York, NY</td>
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<td>Outcomes Analysis of Semiannual Ipsilateral Mammographic Surveillance Following Breast Conservation Therapy: 12-Year Experience</td>
<td>Arasu, V.1*; Joe, B.1; Lvooff, N.2; Leung, J.3; Brenner, R.4; Flowers, C.1; Chang, B.1; Sickles, E.1 1. University of California, San Francisco, San Francisco, CA; 2. California Advanced Imaging Medical Associates, Novato, CA; 3. California Pacific Medical Center, San Francisco, CA; 4. Bay Imaging Consultants Medical Group, Inc, Walnut Creek, CA</td>
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#### 1:00 pm-3:00 pm

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<th>Session</th>
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<tr>
<td>SS13</td>
<td>Cardiopulmonary Imaging—Moderators: R. Munden, M. Parker; Keynote: CT Radiation Risks: What Patients Really Need to Know—M. Parker</td>
<td>Ciancibello, L.*; Gilkeson, R. University Hospitals Case Medical Center, Cleveland, OH</td>
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<td>Quantitative Evaluation of Techniques that Target Dose Reduction to the Female Breast during CT Coronary Angiography: Assessing Helical and Volumetric Data Acquisitions</td>
<td>Abadi, S.*; Mehrez, H.; Ursani, A.; Parker, M.; Paul, N. University Health Network, Toronto, Canada</td>
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<td>Bismuth Breast Shielding and its Effect on Calcium Score and Dose in Dual Source MDCT</td>
<td>Ciancibello, L.*; Gilkeson, R. University Hospitals Case Medical Center, Cleveland, OH</td>
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<td>Effect of Age, Indication and Weight-Based Automatic Exposure Control Technique for Chest CT Scanning</td>
<td>Prakash, P.1*; Kalra, M.; Abujudeh, H.; Dignamthry, S.; Gilman, M.; Shepard, J. Massachusetts General Hospital, Boston, MA</td>
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<td>Low-Dose Thoracic Aortic Angiography Using Wide Detector Array CT</td>
<td>Ciancibello, L.*; Schoenhagen, P.; Halliburton, S. Cleveland Clinic Foundation, Cleveland, OH</td>
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<td>CT Fluoroscopy Versus Conventional CT: An Examination of Radiation Exposure and Diagnostic Yield During Intrathoracic Biopsy</td>
<td>Javidan-Nejad, C.1,2; Joshi, G.3; Pilgram, T.3; Whiting, B.1 1. Washington University School of Medicine, Saint Louis, MO; 2. Mallinckrodt Institute of Radiology, Saint Louis, MO; 3. Medical University of South Carolina, Charleston, SC</td>
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<td>The Use of 100kVp and its Effect on Total Calcium Score in MDCT</td>
<td>Ciancibello, L.*; Gilkeson, R. University Hospitals Case Medical Center, Cleveland, OH</td>
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117. Selective Enhancement of Pulmonary Arteries for Detection of Pulmonary Emboli at 64 Slice MDCT Angiography: Test Bolus Versus Automatic Bolus Tracking Technique
Figueira, K.; Dahanak, K.; Jerome, S.; Yemen, B. I. Hamilton Health Sciences, Hamilton, Canada; 2. McMaster University, Hamilton, Canada

118. Judicious Use of CT Pulmonary Angiograms in the Emergency Department
La Plante, J.; McWey, R. I. University of Utah, Salt Lake City, UT; 2. University of Virginia, Charlottesville, VA

119. Sensitivity of Low Dose CT Thorax for PAVM Detection in HHT
Budhani, F.; Marcuzzi, D.; Leng, S.; Yaghmai, V. V. St. Michael's Hospital-University of Toronto, Toronto, Canada

120. Changes in the Volume of Enhancing Tumor on MDCT as the Predictor of Hepatocellular Carcinoma Response to 90-Yttrium (90Y) Radioembolization Therapy
Tochetto, S.; Galizia, M.; Rezai, P.; Yaghmai, V. Northwestern University, Chicago, IL

121. Can a Peripheral Pattern of Necrosis Predict Intrahepatic Cholangiocarcinoma Response to Yttrium-90 Microsphere Treatment?
Horowitz, J.; Yaghmai, V.; Miller, F.; Lewandowski, R.; Nikolaidis, P.; Salem, R. Northwestern University, Chicago, IL

122. Evaluation of Hepatic Tumor Necrosis on MDCT: Comparison of Qualitative and Quantitative Assessment of Treatment Response
Yaghmai, V.; Tochetto, S.; Galizia, M.; Rezai, P.; Salem, R.; Miller, F. Northwestern University, Chicago, IL

123. Color Flow Doppler Imaging for the Assessment and Treatment of Liver Biopsy-Associated Bleeding
Ripley, B.; Durelle, J.; Levine, J.; Schwimmer, J.; Rose, S. UCSD, San Diego, CA

124. Percutaneous CT and US Guided Radiofrequency Ablation of Renal Masses: Long Term Efficacy
McClure, T.; Chow, D.; Raman, S. University of California, Los Angeles, Los Angeles, CA

125. Ultrasound Guided Percutaneous Interventions on Liver Masses Using Real Time Navigation With Image Fusion and Needle-Tip Tracking

126. Radiation Dose Reduction for CT-Guided Renal Tumor Cryoablation

4:00 pm-5:30 pm
IC211. Breast MRI: Basic Clinical Principles and Navigating the New ACR Accreditation Breast MR Program—C. Comstock, M. Boston

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

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

IC214. Management of Challenging Cases in Interventional Liver Oncology: A Case-Based Approach—D. Madoff, R. Murthy, S. Rose

4:00 pm-6:00 pm

Elizabeth G. Second Level
127. CT of Blunt Traumatic Gastrointestinal and Mesenteric Injuries: Subtle Signs, How Significant Are They?
Habjan, A.; Ky, R.; Smiti, S.; Rao, V.; Thakur, M. I. Tata Memorial Hospital, Mumbai, India; 2. Kasturba Medical College, Manipal, India

128. MR Enterography in the Assessment of Crohn’s Disease
Paspalati, R.; Katz, J.; Splawsky, J.; Chelmisky, G. I. University Hospital, Case Western Reserve University, Solon, OH; 2. Rainbow Babies and Children Hospital, Cleveland, OH

129. Grading of Active Inflammation With MR Enterography: Comparison to Widely Used Clinical Indices
Grand, D.; Kerstetter, D.; Shah, S. Warren Alpert School of Medicine, Brown University, Providence, RI

130. CT Findings of Cecal Volvulus
Rosenblat, J.; Levsky, J.; Den, E.; DuBrow, R.; Wolf, E.; Rosenblit, A. Montefiore Medical Center, Bronx, NY

131. Mimics of Acute Appendicitis: CT Predictors of Appendiceal Disease Confirmed at Pathology
Duda, J.; Lynch, M.; Bhatt, S.; Dogra, V. University of Rochester, Rochester, NY

132. MRI of Appendicitis in Pregnancy: Comparison of Experienced and Inexperienced Readers
Champion, V.; Corwin, M.; Lazarus, E.; Woodfield, C. Brown University, Providence, RI

133. Multi-Detector CT for Suspected Acute Appendicitis: Diagnostic Performance in 1,666 Adults
Lawrence, E.; Pickhardt, P. University of Wisconsin School of Medicine and Public Health, Madison, WI

134. Accuracy of CT Without Versus With Oral Contrast in the Diagnosis of Acute Appendicitis
Tappouni, R.; Mohamed Ali, R.; Sarwani, N. Penn State, Hershey, PA
TUESDAY SCHEDULE

135. Correlation of MRI Defecography With Conventional Fluoroscopic Defecography in the Evaluation of Chronic Constipation
Paspulati, R.; Delaney, C.; Champagne, B. University Hospital, Case Western Reserve University, Solon, OH

4:00 pm–6:00 pm

136. Prevalence of Choroid Plexus Cysts in Near Term and Term Neonates With Congenital Heart Disease
Rai, B.; Desai, H.***; Cohen, M.; Norton, K. Children’s Hospital of New Jersey, Tenafly, NJ

137. The Role of Cardiac CT in the Evaluation of Tracheobronchial Abnormalities in Patients With Tetralogy of Fallot
Poach, C.1,2*; Richardson, R.1; Umstead, E.1; Saghari, A.1
1. St. Joseph’s Hospital and Medical Center, Phoenix, AZ; 2. The University of Arizona, Tucson, AZ

138. Role of Coronary CT Angiography in Pediatric Patients With Coronary Artery Fistulas
Shah, P.*; Saghari, A.; Alboliras, E.; Diab, K.; Pophal, S.; Cleveland, D.; Nigro, J.; Richardson, R. St Josephs Hospital and Medical Center, Phoenix, AZ

139. Detection of Scarring in Children with Renal Transplants and Urinary Tract Infection: Comparison of DMSA and Ultrasound
Shah, V.; Shah, S.2; Fernando, R.2; Anderson, P.2; Marks, S.2; Biassoni, L.2
1. Imperial Healthcare NHS Trust, Hemel Hempstead, UK; 2. Great Ormond Street Hospital NHS Trust, London, UK

140. To Assess the Role of Abdominal Sonography in the Preoperative Diagnosis of Extrahepatic Biliary Atresia in Children <90 Days of Age
Saxena, A.*; Mittal, V.; Sodhi, K.; Thapa, B.; Rao, K.; Das, A.; Khandelwal, N.
Post Graduate Institute of Medical Education and Research, Chandigarh, India

141. Renal Excretion of Gastrografin after Gastrografin Enema in Neonates and Infants: When Does it Occur?
Je, B.*; Kim, S.; Lee, K.; Cha, S.1 1. Korea University Hospital, Ansan, Gyeonggido, Korea; 2. Dongshin Hospital, Seoul, Korea

142. Effect of kVp on Noise, Dose and Contrast-to-Noise Ratio for Pediatric Low Dose CT
Gamberoni, J.; Dong, F.*; Davros, B.; Reid, J. Cleveland Clinic, Cleveland, OH

143. Comparison of Adaptive Iterative and Filtered Back Projection Reconstruction Techniques for Pediatric CT Acquired at Lower Radiation Dose
Singh, S.*; Kalar, M.; Doyle, M.; Shenoy-Bhangle, A.; Westra, S. Massachusetts General Hospital, Boston, MA

144. Safety of Gadobenate Dimeglumine (Gd-BOPTA) in Cardiovascular Imaging of Pediatric Patients
Schneider, G.*; Schuerholz, H.; Buecker, A.; Fries, P. Saarland University Hospital, Homburg, Germany

4:00 pm–6:30 pm

Review Course: Cardiovascular Imaging
Manchester Ballroom, Second Level

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

* Presenting Author
**Wednesday, May 5**

**6:00 am—6:00 pm**
Speaker Preview Room

**6:30 am—4:30 pm**
Registration

**7:00 am—12:00 midnight**
Electronic Exhibits

**7:30 am—10:00 am**
Case-Based Imaging Review Course
*There is an additional fee to attend this course.*

**8:00 am—9:30 am**
As part of ARRS’ Global Exchange with South Korea, we are honored to have Dr. Kyung Soo Lee participate in IC302 as follows:
- IC302. Radiographic and CT Imaging of Pulmonary Infections: TB/NTM, Community-Acquired, Immunocompromised—K. Soo Lee; J. Fishman; L. Ketai; H. Page McAdams

**9:30 am—10:30 am**
Coffee Break in the Exhibit Hall

**10:00 am—11:30 am**
As part of ARRS’ Global Exchange with South Korea, we are honored to have Dr. In-One Kim participate in IC309 as follows:
- IC309. Cranial Ultrasound: State of the Art—L. Lowe;
- Pediatric Spine Imaging: State of the Art—N. Kadom;
- Pediatric Leukodystrophies: Review—I. Kim

**12:00 noon—1:00 pm**
Lunch in the Exhibit Hall

**1:00 pm—6:30 pm**
Case-Based Imaging Review Course
*There is an additional fee to attend this course.*

**2:45 pm—3:15 pm**
Member Business Meeting

**3:00 pm—4:00 pm**
Soda Break in the Exhibit Hall

**7:00 am—9:30 am**
State of the Art CT: From Data to Knowledge—Elliot K. Fishman MD
Sponsored by Siemens Healthcare
*(Breakfast will be available for the first 130 attendees)*

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**Corporate Sponsored Activity**

**6:00 am—6:00 pm**
Speaker Preview Room

**6:30 am—4:30 pm**
Registration

**7:00 am—12:00 midnight**
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(Innovation made for all the right reasons.)

With the ultimate goal of providing the best diagnostic images in medicine, Toshiba has delivered innovative imaging solutions for nearly a century. We develop safer, more efficient ways to scan while providing the kind of service that has earned us MD Buyline's top rating in customer satisfaction.
WEDNESDAY SCHEDULE

7:00 am-8:00 am

Power Hour: Cardiopulmonary Imaging—C. Meyer, moderator

Randle B, Fourth Level

E52. Echocardiography and MDCT, Complimentary Techniques—C. Rojos
E57. Optimal Viewing Parameters for Myocardial Stress Perfusion Computed Tomography—T. TECHASITH
E62. Myocardial BOLD Imaging: A New Frontier for Ischemic Heart Disease—S. Peter
E75. Pulmonary Valve Disease: Improved Diagnosis With Advanced CT and MRI Technology—E. Vogelius
E82. Imaging of Malignant Pleural Neoplasms—F. Souza
E96. Assessment of Collateral Pathway Formation in Severe Occlusive Coronary Artery Atherosclerotic Disease Using Multidetector 64-Slice CT Coronary Angiography With Conventional Coronary Angiography Correlation—I. Chan

7:00 am-8:00 am

Power Hour: Pediatric Imaging—T. Huisman, moderator

Randle A, Fourth Level

E618. Pediatric Osteomyelitis: An Interactive Case Series With Emphasis on MRI and Radiologic Correlation—H. Yarmohammadi
E635. MR Imaging of Typical and Atypical Focal Nodular Hyperplasia in Treated Pediatric Oncologic Patients—S. Shaylor
E641. Help Me! Somebody Hurt Me: A Pictorial Quiz of Nonaccidental Trauma—L. Wu
E645. Demystifying Skeletal Dysplasias: Skull and Craniofacial Junction—S. Foster
E646. Pictorial Review of Pediatric Scrotal Disorders—J. Goldberg
E649. Vascular Anomalies in Children: Update and Review of Classification—S. Abedin

7:30 am-10:00 am

Review Course: Breast Imaging

Manchester Ballroom, Second Level

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

8:00 am-9:30 am

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

Douglas A, Lobby Level


Douglas C, Lobby Level

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

Douglas B, Lobby Level

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

Elizabeth G, Second Level


Elizabeth H, Second Level


Elizabeth F, Second Level

10:00 am-11:30 am

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

Douglas C, Lobby Level

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

Douglas B, Lobby Level

IC309. Cranial Ultrasound: State of the Art—N. Kadom; Pediatric Leukodystrophies: Review—I. Kim

Douglas A, Lobby Level

IC310. Vertebroplasty: The Beginner’s Course—S. Tutton, M. Davidian

Randle A, Fourth Level

10:00 am-12:00 noon


Elizabeth G, Second Level:


146. Fissural Nodular Densities: Inherent Stability and Benignity, and Variability in Descriptive Nomenclature—Przybylski, D.; Shiau, M.; Wnorowski, A.; Naidich, D.; Sanger, J.; Rom, W. NYU School of Medicine, New York, NY


* Presenting Author
158. Incidental Renal Masses Identified at Screening CT Colonography: Frequency and Clinical Relevance
O'Connor, S.1*; Pickhardt, P.; Kim, D.; Oliva, M.; Silverman, S.2 1. University of Wisconsin, Madison, Madison, WI; 2. Brigham and Women’s Hospital, Boston, MA

159. Comparison of Accuracy of PET/CT With MRI for Detecting Hepatic Metastases in Patients With Newly Diagnosed or Suspected Recurrent Colorectal Carcinoma
Tannaphai, P.1*; Lee, J.; Khandani, A.; Warshawer, D.; Calvo, B.; O’Connor, W. University of North Carolina, Chapel Hill, NC

160. The Utility of PET/CT in the Management of Colorectal Cancer Patients With Suspected Recurrence
Liong, S.1,2*; Kochhar, R.1; Manoharan, P.1 1. Manchester Radiology Training Scheme, Altrincham, United Kingdom; 2. The Christie, Manchester, United Kingdom

161. Tertiary Centre Experience of the Impact of PET/CT on the Management of Patients with Metastatic Colorectal Cancer
Kochhar, R.2; Liong, S.1,2; Manoharan, P.1 1. The Christie, Manchester, UK; 2. Manchester Radiology Training Scheme, Altrincham, UK

162. Quantitative Methodology Using CT for Predicting Survival in Patients With Metastatic Colorectal Carcinoma: A Pilot Study
Gottlieb, R.; Raczyk, C.; Hanna, T.; Fora, A.; Yang, W.; Nayyar, R.; Fakh, M. Roswell Park Cancer Institute, Williamsville, NY

163. Can We Predict Prognosis of Carcinoma of the Colon?
Botchu, R.; Khan, A.; Patel, R.; Elabassy, M.1 University Hospitals of Cleveland, Cleveland, Ohio

1:00 pm-2:30 pm

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

Douglas A. Lobby Level

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

Elizabeth G, Second Level

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

Douglas C, Lobby Level

IC314. Radiation Safety (vascular and interventional radiology)—B. Dixon, K. Ogden, R. Thornton

Randle A, Fourth Level

1:00 pm-3:00 pm


Elizabeth H, Second Level
**Wednesday Schedule**

164. Tumor Necrosis Quantification on Imaging as a Predictor of Therapy Response for Soft Tissue Sarcoma—Comparison Between Estimates Obtained by MRI Volumetry and Pathology


165. Imaging of Peripheral Multiple and/or Plexiform Schwannomas

Song, A.1*; Murphey, M.; Kransdorf, M.; Miettinen, M. 1. Armed Forces Institute of Pathology, North Bethesda, MD; 2. Mayo Clinic Jacksonville, Jacksonville, FL

166. Describe Negative or Misleading Imaging Findings in Unusual Variants of Multiple Myeloma-Nonsecretory Myeloma and Nonexcretory Myeloma

Feldman, F. Columbia Presbyterian Medical Center, Bronx, NY

167. Bone Marrow Alteration in Patients With Type 1 Gaucher Disease on Enzyme Replacement Therapy

Lerner, D.1*; Simpson, W.; Herrman, G.; Bawani, M. Mount Sinai Medical Center, New York, NY

168. Numeric Correlation Between Lumbar Spine DEXA Scores and Hounsfield Units of CT Scans of the Lumbar Spine in Noncontrast CT Zonoz, A.1*; Mulligan, M.; Safdar, N. University of Maryland, Baltimore, MD


Didolkar, M.1*; Vinson, E.; Barnhart, H. Duke University Medical Center, Durham, NC

170. Prevalence and Under-Reporting of Vertebral Fractures on CT Lateral Scout Views in Cancer Patients

Feeney, J.1*; Hwang, S. Memorial Sloan Kettering Cancer Center, Dublin, Ireland

171. Utilization of Lumbar Spine MRI: Which Factors Affect Subsequent Intervention?

Kato, K.1*; Yoon, H.2 1. John A. Burns School of Medicine, Honolulu, HI; 2. Kaiser, Honolulu, HI

172. High Resolution Quantitative PET/CT/MRI for Measuring Early Response to Therapy in Rheumatoid Arthritis

Chaudhari, A.1*; Bowen, S.; Naguwa, S.; Shelton, D.; Boone, J.; Buonocore, M.; Hunter, J.; Badawi, R. University of California Davis Medical Center, Sacramento, CA

173. Relationship Between Elevated Serum Parathyroid Hormone, Sesamibi Scans and Radiographic Changes

Balogun, Y.1*; Barshay, V.; Dieudonne, G.; Monu, J. University of Rochester, Rochester, NY

174. Are Radiographs of the Thoracic Spine Truly Inadequate in the Setting of Trauma? Accuracy of Thoracic Radiographs for Diagnosing Injuries of Varying Severity


1:00 pm-2:30 pm


175. The Value of On-Site Pathology in Determining Adequacy for Ultrasound Guided Biopsy of Thyroid Nodules


176. Learning a Bayesian Classifier for Thyroid Nodule Evaluation

Liu, Y.1*; Kamaya, A.; Desser, T; Rubin, D. Stanford University, Los Altos, CA

177. A Systemic Search for Patterns for Thyroid Nodule Evaluation Using a Bayesian Classifier

Liu, Y.1*; Kamaya, A.; Desser, T; Rubin, D. Stanford University, Los Altos, CA

178. Can the Ultrasound Appearance of a Thyroid Nodule Predict Ultimate Cytology Upon FNA?

Sacks, B.1,2*; Sacks, A.3*; Pallotta, J.3*; Faquin, W.1 1. Metrowest Medical Center, Framingham, MA; 2. Beth Israel Deaconess Hospital, Boston, MA; 3. Boston University Medical Center, Boston, MA; 3. Massachusetts General Hospital, Boston, MA

179. 18FDG Standardized Uptake Value Ratio as a Biomarker for Differentiating Squamous Cell Carcinoma of the Base of Tongue from Physiological Uptake

Davison, J.1*; Surasi, D.; Grillone, G.; Subramaniam, R. Boston University School of Medicine, Boston, MA

1:00 pm-3:30 pm

Review Course: Pediatric Imaging

Manchester Ballroom, Second Level

180. Review Course Pediatric Imaging

Chest/Pulmonary—E. Lee

Musculoskeletal—E. Mann

Abdominal—S. Anupindi

Neurology—D. Rivard

Genitourinary—S. DiPerna

2:45 pm-3:15 pm

Member Business Meeting

Elizabeth F, Second Level

4:00 pm-6:00 pm

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

Douglas C, Lobby Level

* Presenting Author
**Wednesday Schedule**

**4:00 pm-5:30 pm**

IC316. Ethical and Medical-Legal Issues in Radiology—P. Kornguth, L. Berlin

Elizabeth H, Second Level

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

Douglas A, Lobby Level

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

Douglas B, Lobby Level

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

Elizabeth F, Second Level


Elizabeth G, Second Level

**4:00 pm-6:30 pm**

Review Course: Vascular and Interventional Radiology

Manchester Ballroom, Second Level

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

* Presenting Author
THURSDAY, MAY 6

6:00 am–5:30 pm
Speaker Preview Room
Molly A/B, Second Level

6:30 am–4:30 pm
Registration
Elizabeth Foyer, Second Level

7:00 am–12:00 midnight
Electronic Exhibits
Randle D/E, Fourth Level

7:30 am–1:00 pm
Case-Based Imaging Review Course
There is an additional fee to attend this course.
Manchester Ballroom, Second Level

9:30 am–10:30 am
Coffee Break
Manchester Foyer, Douglas Foyer, Elizabeth Foyer

10:00 am–12:00 noon
As part of ARRS’ Global Exchange with South Korea, we are honored
to have Dr. Joon Koo Han participate in SS23 as follows:
SS23. Gastrointestinal Imaging: Pancreaticobiliary-Moderators:
J.K. Han, B. Yeh; Keynotes: Contemporary Imaging of Cystic
Pancreatic Lesions—J.K. Han; Imaging of Biliary Obstruction—B. Yeh
Elizabeth G, Second Level

12:30 pm–2:00 pm
As part of ARRS’ Global Exchange with Korea, we are honored
to have Dr. Dong Ik Kim participate in IC411 as follows:
IC411. Noninvasive Vascular Neuroimaging: Ultrasound,
CT Angiography and MR Angiography—J. Gemmete, D. Kim, B. Huang
Elizabeth G, Second Level

2:00 pm–3:00 pm
Soda Break
Manchester Foyer, Douglas Foyer, Elizabeth Foyer

2:30 pm–5:00 pm
Case-Based Imaging Review Course
There is an additional fee to attend this course.
Manchester Ballroom, Second Level

IC=Instructional Course
SS=Scientific Session

CORPORATE SPONSORED ACTIVITY

7:00 am–8:00 am
Maximizing Safety and Efficacy in Enhanced MRI and CT: What’s New?
Sponsored by Bracco Imaging
(Breakfast will be available for the first 280 attendees)
Douglas D, Lobby Level
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Thursday Schedule

7:00 am–8:00 am

Power Hour: Emergency/General Radiology—D. Katz, moderator

Randle B, Fourth Level

E188. CT Artifacts in the Obese Patient—M. Gunn
E172. Anatomic Positioning System (APS): Accuracy of Localization of Mock Blast Fragments on CT in Three Dimensions—P. Shogan
E175. What has Changed Between RECIST and RECIST 1.1?—G. Oliveira
E182. The Evolving Face of 3D-Imaging as a Biomarker: Clinical Significance and Evidence-Based Support—A. Singh
E198. CT of the Skin—G. Ganson
E205. Imaging the Pregnant Woman for Non-Obstetric Reasons: What You Need to Know—S. Reddy

7:00 am–8:00 am

Power Hour: Musculoskeletal—L. Cerezal, N. Safdar, moderators

Randle A, Fourth Level

E402. The Spectrum of Irradiated Bone Marrow on MRI—G. Bean
E449. Imaging Features of Glomus Tumors—K. Glazebrook
E450. Imaging Review of Synovial Disorders—S. Baccei
E453. MR Neurography Evaluation of Peripheral Nerve Surgery—S. Thawait
E455. MRI of Upper Extremity Peripheral Neuropathy—A. Goud

7:30 am–10:00 am

Review Course: Gastrointestinal Imaging

Manchester Ballroom, Second Level

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

8:00 am–9:30 am


Douglas A, Lobby Level


Douglas C, Lobby Level

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

Douglas B, Lobby Level


Elizabeth G, Second Level

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

Elizabeth H, Second Level


Elizabeth F, Second Level

181. Evaluation of a Novel Readout Segmented Diffusion Weighted MR Sequence: Initial Clinical Experience

Morelli, J.1*; Runge, V.; Porter, D.2; Feiweger, T.; Rangaswamy, R.1; Vu, L.1; Padua, A.3; Dix, J.1; 1. Scott and White Memorial Hospital and Clinic, Temple, TX; 2. Siemens AG, Erlangen, Germany; 3. Methodist Hospital, San Antonio, TX

182. Hybrid Convolution Kernel: Optimized CT of the Head, Neck, and Spine

Weiss, K.1*; Cornelius, R.1; Greeley, A.2; Sun, D.1; Boyle, W.1; Chang, L.1; Weiss, J.1. University of Cincinnati, Cincinnati, OH; 2. No Institutional Affiliation; 3. Beijing Jiaotong University, Beijing, China

183. Optimization of Patient Dose and Image Quality With Z-Axis Dose Modulation For CT Head Protocol

Zacharia, T.; Nguyen, D. Penn State Hershey Medical Center, Hummelstown, PA

184. Rapid MRI Detection of Verterbral Numerical Variation

Akbar, J.1*; Weiss, K.1; Soafr, M.2; Weiss, J.1. University of Cincinnati, Cincinnati, OH; 2. No Institutional Affiliation

185. Diffusion Tensor Imaging and Fibertracking at 7T

Sammet, S.1; Irfanoglu, O.; Koch, R.1; Schmalbrock, P.; Choi, S.; Achiraju, R.1; Yuh, W.; Knopp, M.1. The Ohio State University, Columbus, OH; 2. Brigham and Women’s Hospital, Boston, MA

186. Role of Intrathecal Gaddolium Myeloscinternostogram in Evaluation of Cerebrospinal Fluid Rhinorrhoea


10:00 am–11:30 am


Douglas C, Lobby Level

IC407. Extreme Radiology and Interventions in Modern Warfare and National Disaster Relief—R. Boucher, S. Ferrara

Elizabeth H, Second Level


Douglas A, Lobby Level
187. Superfluous Radiographs of the Thoracic and Lumbar Spines in Trauma Patients Undergoing CT of the Chest, Abdomen and Pelvis—A Retrospective Review
Ciura, V.;* Hahn, L.; Kirkpatrick, A.; Mahallati, H. University of Calgary, Foothills Medical Centre, Calgary, Canada

188. Pelvic Fractures in the ED: Is a Thin Section Reformatted Bone CT Necessary?
Larrison, M.%; Lopez, R. UAB, Birmingham, AL

189. Subspecialty and Imaging Modality Analysis of Cross-Sectional Interpretation Discrepancies Between On-Call Radiology Residents and Subspecialty Faculty Radiologists
Ruma, J.%; Klein, K.; Kazerooni, E.; Ellis, J.; Chong, S.; Wesolowski, J. University of Michigan Health System, Ann Arbor, MI

190. Reduction of Overranging in Helical MDCT by an Adaptive Collimator
Van Der Molen, A.;* Boeckerman, S.; Keynotes: Contemporary Imaging of Cystic Pancreatic Lesions—Mahattai, V.; Yeh, B. U. of Michigan Health System, Ann Arbor, MI

191. Quantitative Analysis of the Spleen in Patients With Blunt Abdominal Trauma: Is Spleenic Volume a CT Indicator of Systemic Shock?
McLaughlin, P.%;* Coyle, J.; Brennan, C.; O’Connor, O.; Ryan, M.; O’Sullivan, I.;* Maher, M. University College Cork, Cork, Ireland

192. Is IVC Size Predictive of Shock?
Vu, C.%;* Ray, C.%;* Vu, T.%;* Guzelian, J.1* University of Colorado Denver, Aurora, CO; 2. Denver Health Medical Center, Denver, CO

193. Diffusion-Weighted MRI of Abdominopelvic Fluid Collections: Can We Differentiate Abscess from Noninfected Fluid?
Orrin, S.%;* Lakadamyali, H.; Kayhan, A.; Dahl, F.; Fan, X.; Thomas, S.; Oto, A. The University of Chicago, Chicago, IL

194. Whole Body MRI—An Effective Total Body Imaging Tool for Metastases Work-Up in Patients With Breast Carcinoma
Singh, J.%;* Kelkar, D. Deenanath Mangeshkar Hospital and Research Center, Pune, India

10:00 am-11:30 am
SS23. Gastrointestinal Imaging: Pancreaticobiliary—Moderators: J.K. Han, B. Yeh; Keynotes: Contemporary Imaging of Cystic Pancreatic Lesions—J.K. Han; Imaging of Biliary Obstruction—B. Yeh

Elizabeth G, Second Level

195. Contrast Enhanced Liver MRI in Patients With Primary Sclerosing Cholangitis: Inverse Appearance of Focal Fibrotic Lesions With Hepatocyte Specific Versus Extracellular Gadolinium Based Contrast Agents Husarik, D.%;* Gupta, R.%; Ringe, K.%; Boll, D.%;* Merkle, E.%;* 1. Duke University Medical Center, Durham, NC; 2. Medical School of Hannover, Hannover, Germany

196. Utility of Gd-EOB-DTPA Enhanced T1-Weighted MR Cholangiography in Diagnosis of Biliary Ductal Diseases: Initial Experience Ji, H.%;* Maetani, T.; Yucel, K. Tufts Medical Center, Boston, MA

197. Use of 3D and 4D Volume Acquistion Ultrasound of the Gallbladder for Assessment of Gallbladder Dyskinesia
Irshad, A.; Lewis, M.%; Ackerman, S.; Anis, M.; Hashmi, A.; Campbell, A. Medical University of South Carolina, Charleston, SC

198. Gallstone Detection in vitro at Dual-Energy Compared to Conventional CT
Tran, D.%;* Wang, Z.%;* Benedetti, N.%;* Prevrla, S.%;* Yeh, B.1* UCSF, San Francisco, CA; 2. San Francisco VAMC, San Francisco, CA

199. Diffusion Weighted MRI in Acute Pancreatitis
Thomas, S.%; Kayhan, A.; Lakadamyali, H.; Yacoub, J.;* Oto, A. University of Chicago, Chicago, IL

200. Malignant Potential of Mucinous Cystic Neoplasm of the Pancreas: Utility of Size as a Biomarker
Rezai, P.%; Galizia, M.; Tochetto, S.; Miller, F.; Yaghmai, V. Northwestern University, Chicago, IL

201. Prevalence and Significance of Periceliac Stranding on Multidetector CT in Asymptomatic Patients
Munir, R.%; Aslam, R.;* Yeh, B. San Francisco VA Medical Center, San Francisco, CA

202. Diffusion Weighted Imaging of the Abdomen: Comparing Artifacts in Different Techniques Using 1.5T and 3T Magnets
Jalil, M.%;* Seifibakht, S.%; Quane, L.%; Sarem, F.1* University of California Irvine, Orange, CA; 2. Shiraz University of Medical Sciences, Shiraz, Iran

203. Interpatient Variability of Enhancement of Five Abdominal Organs in Triphasic MDCT
Liu, Y.%;* Shin, L.; Jeffrey, R.; Kamaya, A. Stanford University, Los Altos, CA

10:00 am-11:30 am
SS24. Neuroradiology: Imaging and Clinical Outcomes—Moderators:
D. Nguyen, P. Kranz; Keynote: Advanced CT and MR Imaging of Acute Stroke Infarct Core and Ischemic Penumbra: Where Do We Stand?—P. Schaefer

Elizabeth F, Second Level

204. Use of MRI Criteria for Predicting Successful Trans-Sphenoidal Surgery of Pituitary Macroadenomas
Baxerman, J.1,2%; Rogg, J.1,2%; Donahue, J.1,2%; Doberstein, C.1,2 1. Rhode Island Hospital, Providence, RI; 2. Brown University, Alpert Medical School, Providence, RI

205. Outcomes of Intracranial Aneurysms Monitored by CT Angiography
Guo, Y.; Young, N.%; Dorsch, N.; Kang, A.; Rubin, G. Westmead Hospital, Sydney, Australia

206. Iron Deposition in the Basal Ganglia: A Longitudinal Quantitative MRI Study
Honce, J.%; Kido, D.; Oyoyo, U. Loma Linda University Medical Center, Loma Linda, CA

* Presenting Author
THURSDAY SCHEDULE

207. Carotid mm—Stenosis: What is the Threshold that Determines Cerebrovascular Symptoms?
Saba, L.1; Sanfilippo, R.; Atzeni, M.; Ribuffo, D.; Montisci, R.; Mallarini, G. Azienda Ospedaliero Universitaria, Cagliari Sardegna, Italy

208. Routine CTA of the Neck in Trauma: Yes We Can, But at What Cost?
Hadley, J.1,2; Brasswell, A.1; Chatterjee, A.1. University of Tennessee, Collierville, TN; 2. No Institutional Affiliation

209. Spontaneous Hemorrhage in Intracranial Arachnoid Cysts
Vakhariya, S.1,2; Parmar, H.1; Castillo, M.2. University of Michigan, Ann Arbor, MI; 2. University of North Carolina, Chapel Hill, NC

10:30 am-1:00 pm
Review Course: Musculoskeletal Imaging
Manchester Ballroom, Second Level

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

12:30 pm-2:00 pm
IC408. Beyond the Visceral Organs—The Mesentary and Peritoneum: Peritoneal Spaces: Emphasis on Compartmentalization of the Perihepatic Space—P. Min; Vasculature and Improved Abdominopelvic Diagnosis—B. Yeh; Retroperitoneal Spaces—J. Brink
Douglas A, Lobby Level
IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—J. Buzzi, E. Rohren, J. Ko
Douglas B, Lobby Level
IC410. Emergency Radiology: Simplifying the Diagnosis of Complex Musculoskeletal Injuries: Simplifying Intra-Articular Calcaneus Fractures—O.C. West; Less Common and Sometimes Confusing Injuries in and About the Hip—L. Rogers; Simplifying Radiographic Indicators of Major Ligamentous Injuries of the Knee—J. Yu
Douglas C, Lobby Level
IC411. NonInvasive Vascular Neuroimaging: Ultrasound, CT Angiography and MR Angiography—J. Gemmert, D. Kim, B. Huang
Elizabeth G, Second Level
IC412. Contrast-Enhanced Ultrasound in Radiology—Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—P. Burns; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—S. Wilson
Elizabeth H, Second Level

2:30 pm-5:00 pm
Review Course: Neuroradiology
Manchester Ballroom, Second Level

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

3:00 pm-4:30 pm
IC413. Thoracic PET/CT: Interpretation Predicaments and Future Developments—O. Mawlawi, J. Erasmus, M. Truong, T. Wong
Elizabeth F, Second Level
IC414. Medical Professionalism—G. Butler; Beyond Substance Abuse: Stress, Burnout, and Depression—S. Brown (2009 Berlin Scholar)
Randle A, Fourth Level
Douglas C, Lobby Level
IC416. Renal Sonography: Renal Lesions Hiding in Plain Sight—B. Hashimoto; Duplex and Color Doppler of the Kidneys—S. Teeffy
Douglas A, Lobby Level

3:00 pm-5:00 pm
Keynote: MR Imaging of Acute Abdominal Pain in Pregnant Patients—A. Oto
Elizabeth G, Second Level

210. Added Value of Pelvic Ultrasound Immediately Following MDCT in Female Patients With Abdominal/Pelvic Pain: Is it Always Necessary?
Yitta, S.1,2; Maunser, E.1; Im, A.1; Hecht, E.1; Bennett, G.1.1. NYU, New York, NY; 2. University of Pennsylvania, Philadelphia, PA

211. Is CT a Reliable Diagnostic Modality in Detecting Placenta Injuries in the Setting of Acute Trauma?
Bollepalli, S.1,2; Sanfilippo, G.; Monriquez, M.; Britt, L.; Drachman, D. Maricopa Medical Center, Phoenix, AZ

212. Prevalence of Microlithiasis and its Association With Cancer in the Testicular Cancer
Kobayashi, K.1,2; Jackson, J.2; Eftekhari, F.2; 1. Michael E. DeBakey VA Medical Center, Houston, TX; 2. MD Anderson Cancer Center, Houston, TX

213. Adenoma Malignum of the Uterine Cervix: Imaging Features With Clinicopathologic Correlation in 22 Patients
Park, S.1,2; Moon, M.1; Lee, Y.1; Kim, J.2; Cho, K.2; Lee, J.1. 1. Cheil General Hospital and Women’s Healthcare Center, Kwandong University College of Medicine, Seoul, Korea; 2. Asan Medical Center, University of Ulsan, Seoul, Korea; 3. Ulsan University Hospital, University of Ulsan, Ulsan, Korea

214. Incidental Adnexal Lesions Detected at Low-Dose Noncontrast CT in Asymptomatic Peri- or Post-Menopausal Women
Hanson, M.1; Pickhardt, P.; Kim, D. University of Wisconsin School of Medicine and Public Health, Madison, WI

215. Manifestations of Atypical Metastases of Prostate Cancer: A 10 Year Retrospective Review
Vinjamoori, A.1,2; Ramaiva, N.2; Jagannathan, J.2; Van den Abbeele, A.2
1. Harvard Medical School, Boston, MA; 2. Dana Farber Cancer Institute, Boston, MA
Thursday Schedule

216. The Comparison of Radiological Response Versus Biochemical Response in Ovarian Cancer Patients Receiving Chemotherapy During Phase II Trials
Ma, X.,2; Guo, M.; Yap, J.; Jagannathan, J.; Matulonis, U.; Harris, G.; Ramaia, N.1 1. Massachusetts General Hospital, Boston, MA; 2. Dana-Farber Cancer Institute, Boston, MA

217. Outcome of Early First-Trimester Pregnancies (<6 weeks 2 days) With Slow Embryonic Heart Rate
Arleo, E.; Troiano, R. NY Presbyterian Hospital-Weill Cornell Medical Center, New York, NY

218. Prostate MRI and Surgical Planning in Robotic Assisted Laparoscopic Prostatectomy (RALP)
McClure, T.*; Margolis, D.; Thomas, A.; Raman, S.; Reiter, R. University of California, Los Angeles, Los Angeles, CA

219. MRI of Small Adnexal Masses

3:00 pm-5:00 pm


Douglas B, Lobby Level

220. Dynamic Ultrasonography in Evaluation of Muscular Trauma
Nath, A.; Bouras, R. Khoura Hospital, Muscat, Oman

221. Ultrasound of Distal Triceps Brachii Tendon Tear
Downey, R.; Jacobson, J.; Tran, N.; Fessel, D.; Matta, N.; Chen, N. University of Michigan, Ann Arbor, MI

222. An Update on Use of Ultrasound in Osteomyelitis and Importance of Power Doppler and Correlation With MRI
Nath, A.; Sethu, A.; Mahrouqi, K. Khoura Hospital, Muscat, Oman

223. Ultrasound-Guided Tenotomy of the Patellar Tendon: Prognostic Value of Pre-Procedural Ultrasound Findings and Symptoms

224. Sonographic Assessment of the Anterior Oblique Ligament of the Trapeziometacarpal Joint in Cadavers and Asymptomatic Volunteers

225. Diagnostic Ultrasound as an Essential Screening Procedure in the Detection of Nonradiopaque Foreign Bodies in the Musculoskeletal System and Importance of Color Power Doppler
Nath, A.; Sethu, A. Khoura Hospital, Muscat, Oman

DuBois, D.*; Grant, T.; Omar, I. Feinberg School of Medicine, Northwestern University, Chicago, IL

227. Fluoroscopic Guided Steroid Injection of the Proximal Hamstring Attachment for the Treatment of Tendinitis in Athletes
Kumaravel, M.; Punwani, N.; Amanullah, F.; Rames, J. University of Texas at Houston, Houston, TX

228. CT Guided Percutaneous Core Needle Biopsy of Musculoskeletal Lesions: Factors Associated With Biopsy Specificity, Accuracy and Efficacy

229. Core Needle Biopsy of Musculoskeletal Lesions: Characterizing Non-Diagnostic Lesions
Rissmiller, J.*; Hochman, M.; Goldsmith, J.; Anderson, M.; Gebhardt, M.; Wu, J. Beth Israel Deaconess Medical Center, Boston, MA

230. Which Is Superior? A Comparison of Anteromedial and Lateral Patellofemoral Approaches For Knee Injection
Rutkowski, A.*; Davis, K.; Blankenbaker, D.; Tuite, M.; Haaland, B. University of Wisconsin Hospital, Madison, WI
**Friday, May 7**

6:00 am–3:30 pm  
Speaker Preview Room  
Molly A/B, Second Level

6:30 am–2:00 pm  
Registration  
Elizabeth Foyer, Second Level

7:00 am–1:00 pm  
Electronic Exhibits  
Randle D/E, Fourth Level

7:00 am–1:00 pm  
Case-Based Imaging Review Course  
*There is an additional fee to attend this course.*

Manchester Ballroom, Second Level

9:30 am–10:30 am  
Coffee Break  
Manchester Foyer, Douglas Foyer, Elizabeth Foyer

2:00 pm–4:30 pm  
Case-Based Imaging Review Course  
*There is an additional fee to attend this course.*

Manchester Ballroom, Second Level
SAVE THE DATE

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Future ARRS Annual Meetings:

- April 29–May 4, 2012
  Vancouver Convention Center
  Vancouver, BC, Canada

- April 14–19, 2013
  Marriott Wardman Park Hotel
  Washington, DC
FRIDAY SCHEDULE

7:00 am-8:00 am

Power Hour: Neuroradiology—C. Glastonbury, moderator

Randle B, Fourth Level

E499. Radiology of Ataxia—S. Kanekar

E509. Radiation Necrosis: When to Suspect and How to Diagnose by Imaging—P. Borghei

E524. Enhancement-Perfusion Mismatch is Useful in Differentiation of Primary CNS Lymphomas from Other Enhancing Malignant Tumors of the Brain—R. Mangla

E528. An Image-Based Approach to MR Artifacts in Neuroradiology—J. Morelli

E530. Cavernous Sinus Pathology: Characteristic Findings and Clinically Relevant Differential Diagnoses—G. Gill

E549. The Clivus: from Embryology and Anatomy to Pathology—G. Dhillon


E586. CT-Guided Cervical Nerve Root Blocks: Tips, Traps and Contrast Utilization—J. Hoang

7:00 am-8:00 am

Power Hour: Ultrasound—M. Dighe, moderator

Randle A, Fourth Level

E207. Clinical Mimickers of Lower Extremity Deep Venous Thrombosis: Ultrasound Diagnosis—G. Gunabushanam

E277. The Role of Ultrasound Fusion Imaging in Abdominal Interventions—H. Tchelepi

E340. Fetal Cardiac Anomalies—Recent Advances in Ultrasonographic Imaging: A Pictorial Review With Pathological Correlation—P. Rajiah

E347. Hemorrhagic Ovarian Cysts, Endometriomas, and Cystic Teratomas: Keys to Diagnosis and Management of these Common “Complex” Ovarian Cysts—L. Shah-Patel

E367. Segmental Testicular Infarction—P. Saxon

E386. CT-Guided Cervical Nerve Root Blocks: Tips, Traps and Contrast Utilization—J. Hoang

7:30 am-10:00 am

Review Course: Genitourinary Imaging

Manchester Ballroom, Second Level

Male Pelvis—D. Casalino

Kidney/Retroperitoneum—E. Remer

Female Pelvis—C. Peterson

Collecting System, Ureter, Bladder—M. Hartman

Miscellaneous—D. Baumgarten

8:00 am-9:30 am

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

Douglas C, Lobby Level

* Presenting Author

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

Elizabeth H, Second Level

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

Douglas A, Lobby Level

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

Elizabeth G, Second Level


Douglas B, Lobby Level

10:00 am-11:30 am

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

Douglas A, Lobby Level

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

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

Douglas C, Lobby Level

10:00 am-12:00 noon

SS27. Musculoskeletal Imaging: Upper and Lower Extremity: MR and CT Advances—Moderators: M. Robbin, A. Gentili; Keynote: Technical Advances in Imaging of the Knee—A. Gentili

Elizabeth F, Second Level

231. Indirect MR Arthrography of the Shoulder for Evaluation of Labral Pathology

Vogelius, E.*; Robbin, M.; Young, P.; Shishani, Y.; Gobezie, R. UH Case Medical Center, Cleveland, OH


Magee, T.* NSI, Satellite Beach, FL

233. Is Conventional MRI as Accurate as MR Arthrography of the Hip?

Strickland, C.*; Blankenbaker, D.; Davis, K.; De Smet, A.; Keene, J. University of Wisconsin, Madison, WI

234. Accuracy of 3 Tesla 3DFSE-XETA Isotropic Imaging Versus Conventional Imaging as Compared with Arthroscopy

Magee, T.* NSI, Satellite Beach, FL

235. Comparison of 3D Versus 2D Fast Spin Echo Imaging for Evaluation of Articular Cartilage in the Knee on a 3 Tesla System

Haims, A.; Milewski, M.; Essig, D.; Medvecky, M.; Katz, L.; Moukaddam, H.* Yale University, New Haven, CT
236. Clinical Evaluation of the Knee Using Fat-Suppressed SPACE: Three-Dimensional, Isotropic Proton Density-Weighted MR Imaging at 1.5T
Krug, D.1,*; Casal, S.2; Harris, B.1; Major, N.3 1. Duke University Medical Center, Durham, NC; 2. VA Medical Center, Durham, NC; 3. Hospital of the University of Pennsylvania, Philadelphia, PA

237. Comparison of 3D Isotropic Resolution Fast Spin-Echo MR Imaging With Conventional 2D MR Imaging of Knee Ligaments and Menisci at 3.0 T
Subhas, N.; Kao, A.; Freire, M.; Polster, J.; Obuchowski, N.; Winalski, C. Cleveland Clinic, Cleveland, OH

238. Evaluation of Image Quality of MR of the Knee With MR Safe Knee External Fixation Device at 3 Tesla
Mehta, N.1,*; Elsissy, P.1; Chien, A.1; Kjellin, I.2; Unis, J.; Oyoyo, U.1; Holshouser, B.1; Cheng, W.1 1. Loma Linda University Medical Center, Loma Linda, CA; 2. No Institutional Affiliation

239. Pelvic Fractures: in the CT Era, Is There a Role of Radiography?
Ali, Z.*; 239. Pelvic Fractures: in the CT Era, Is There a Role of Radiography?
Loma Linda, CA; 2. No Institutional Affiliation

240. Staging of Dupuytren's Disease: Novel Use of 3T MR Scanning Validated With Immunohistochemistry Measures Disease Extent and Activity
Parmar, V.1,*; Bhatti, W.2; Hutchinson, C.1; Muir, L.1; Mcgrourther, D.1; Bayat, A.1 1. University of Manchester, Manchester, United Kingdom; 2. Wythenshawe Hospital, Manchester, United Kingdom

10:30 am-1:00 pm
Review Course: Chest Imaging
Manchester Ballroom, Second Level
Radiographic Signs—G. Abbott Congenital Abnormalities—E. Donnelly Autoimmune/Idiopathic—D. Manos Trauma/iatrogenic—E. Moore Diffuse Lung Disease—A. Sharma

1:00 pm-2:30 pm
IC509. Radiation Issues Related to CT Utilization—M. Parker; Strategies to Reduce CT Dose—M. Gunn
Douglas B, Lobby Level
IC510. Imaging of Children and Adults With Epilepsy—N. Salamon, R. Lee
Elizabeth G, Second Level

1:00 pm-3:00 pm
Douglas D, Lobby Level
241. MASS Criteria: A Contrast Enhanced CT Response Assessment and Predictive Tool in Metastatic Renal Cell Carcinoma
Smith, A.; Remer, E.; Lieber, M.; Rini, B.; Shah, S. 1. Cleveland Clinic, Broadview Heights, OH

2:00 pm-4:30 pm
Review Course: Ultrasound
Manchester Ballroom, Second Level
## Subspecialty Tracks

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SUBSPECIALTY TRACKS: BREAST IMAGING

BREAST IMAGING

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

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

Monday, May 3

7:00 am-8:00 am
Power Hour: Breast Imaging—G. Newstead, moderator

8:00 am-9:30 am
IC101. Breast Ultrasound: Basics Principles and Future—S. Raza, M. Kettler

10:30 am-12:00 noon
IC106. Breast Nuclear Medicine: PEM and PET—D. Mankoff, G. Mercier

1:00 pm-2:30 pm
IC112. Optimizing PET/CT Imaging Protocols, PET/CT for Breast Cancer and Dementia—T. Wong, E. Akin, A. Siegel

1:00 pm-3:00 pm

4:00 pm-5:30 pm
IC115. Basic Screening Principles—D. Georgian-Smith; Controversies on High-Risk Lesions at Core Biopsy: Radiology and Pathology Perspectives—T. Lawton

Tuesday, May 4

8:00 am-9:30 am

10:00 am-12:00 noon

1:00 pm-3:00 pm

4:00 pm-5:30 pm
IC211. Breast MRI: Basic Clinical Principles and Navigating the New ACR Accreditation Breast MR Program—C. Comstock, M. Boston

Wednesday, May 5

7:30 am-10:00 am
Review Course: Breast Imaging
Manchester Ballroom, Second Level

1:00 pm-2:30 pm
IC312. Digital Breast Tomosynthesis—D. Gur, M. Zaley, J. Sumkin
Elizabeth G, Second Level

4:00 pm-5:30 pm
IC316. Ethical and Medical-Legal Issues in Radiology—P. Kornreich, L. Berlin
Elizabeth H, Second Level

BUSINESS AND PRACTICE MANAGEMENT

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

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

Sunday, May 2

1:30 pm-5:00 pm
Business and Practice Management Seminar
Elizabeth G, Second Level

Monday, May 3

8:00 am-9:30 am
IC102. Cardiac CTA: Setting up a Cardiac Service; Reimbursement Issues—D. Dow; Technical Considerations and Principles of Cardiac CTA—S. Abbata; Protocols and Reconstructions—U.J. Schoepf
Elizabeth G, Second Level

IC104. Malpractice Issues in Radiology: Update 2010—L. Berlin
Douglas A, Lobby Level

SS1. Efficacy, Education and PACS: Safety and Communication—J. Eng, R. Agarwal
Keynote: Improving Communication of Radiology Results—C. Kahn
Connaught, Third Level

9:30 am-10:30 am
Caldwell Lecture: Benjamin Chu, MD, MPH, President, Kaiser Permanente Southern California Region
Douglas B, Lobby Level

For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.
SUBSPECIALTY TRACKS: CARDIAC IMAGING

10:30 am-12:00 noon
Elizabeth H, Second Level

SS2. Efficacy, Education and PACS: Policy and Operations—Moderators: E. Fraile-Moreno, B. Richmond; Keynote: Informatics for Operational Efficiency 2.0—D. Channin
Randle A, Fourth Level

1:00 pm-2:30 pm
IC113. Overutilization—J. Thrall, P. Basu
Elizabeth G, Second Level

Tuesday, May 4
10:30 am-12:00 noon
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E) Setting the PAC3E of Imaging
Manchester Ballroom, Second Level

Wednesday, May 5
4:00 pm-5:30 pm
IC316. Ethical and Medical-Legal Issues in Radiology—P. Kornguth, L. Berlin
Elizabeth H, Second Level

Thursday, May 6
3:00 pm-4:30 pm
IC414. Medical Professionalism—G. Butler; Beyond Substance Abuse: Stress, Burnout, and Depression—S. Brown (2009 Berlin Scholar)
Randle A, Fourth Level

For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.

CARDIAC IMAGING

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

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

Sunday, May 2
10:30 am-12:30 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E) Setting the PAC3E of Imaging
Manchester Ballroom, Second Level

Monday, May 3
8:00 am-9:30 am
IC102. Cardiac CTA: Setting up a Cardiac Service; Reimbursement Issues—D. Dowe; Technical Considerations and Principles of Cardiac CTA—S. Abbara; Protocols and Reconstructions—U.J. Schoepf
Elizabeth G, Second Level

10:30 am-12:00 noon
IC111. Cardiac CTA: Assessment of Noncoronary Cardiac Disease—G. Gladish; Adult Congenital Heart Disease—R. Gilkeson; Chest Pain in the Emergency Department—C. White
Douglas C, Lobby Level

1:00 pm-2:30 pm
IC116. Cardiac MRI: The Basics—M. Atalay; Cardiomyopathies and Dysplasias—J. Jeudy; Ischemic Heart Disease: Perfusion, Function, Viability—M. Krishnam
Douglas B, Lobby Level

4:00 pm-5:30 pm
IC117. Cardiac MRI: The Basics—M. Atalay; Cardiomyopathies and Dysplasias—J. Jeudy; Ischemic Heart Disease: Perfusion, Function, Viability—M. Krishnam
Douglas B, Lobby Level

Tuesday, May 4
10:00 am-12:00 noon
SS9. Cardiopulmonary Imaging—Moderators: S. Patel, M. Atalay; Keynote: Late Gadolinium Enhancement Cardiac MRI—M. Atalay
Elizabeth H, Second Level

1:00 pm-3:00 pm
Elizabeth G, Second Level
**Subspecialty Tracks: Chest/Pulmonary Imaging**

4:00 pm-6:30 pm
Review Course: Cardiovascular Imaging

*Manchester Ballroom, Second Level*

**Wednesday, May 5**

7:00 am-8:00 am
Power Hour: Cardiopulmonary Imaging—C. Meyer, moderator

*Randle B, Fourth Level*

10:00 am-12:00 noon

*Elizabeth G, Second Level*

**CHEST/PULMONARY IMAGING**

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

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

**Sunday, May 2**

8:00 am-10:00 am/1:30 pm-3:30 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E) Setting the PAC3E of Imaging

*Manchester Ballroom, Second Level*

**Monday, May 3**

8:00 am-9:30 am
IC103. PET/CT for Solitary Pulmonary Nodule, Lung Cancer, and After Thermal Ablation—S. Nayak, H. Agress, D. Yoo

*Elizabeth F, Second Level*

10:30 am-12:00 noon
IC110. Pulmonary Interventions: AVMs and Bronchial Artery Embolization; Diagnosis—A. Funaki; Pulmonary Embolization—C. Burke; Bronchial Embolization—B. Funaki

*Elizabeth G, Second Level*

**TUESDAY, MAY 4**

10:00 am-12:00 noon
SS9. Cardiopulmonary Imaging—Moderators: S. Patel, M. Atalay; Keynote: Late Gadolinium Enhancement Cardiac MRI—M. Atalay

*Elizabeth H, Second Level*

1:00 pm-3:00 pm

*Elizabeth G, Second Level*

**Wednesday, May 5**

7:00 am-8:00 am
Power Hour: Cardiopulmonary Imaging—C. Meyer, moderator

*Randle B, Fourth Level*

8:00 am-9:30 am

*Douglas C, Lobby Level*

10:00 am-12:00 noon

*Elizabeth G, Second Level*

1:00 pm-2:30 pm
IC313. HRCT Imaging of Lung—G. Abbott, A. Sharma, M. Gosselin

*Douglas C, Lobby Level*

4:00 pm-5:30 pm
IC317. HRCT: Airway and Smoking-Related Lung Disease—A. Bankier, C. Meyer, J. Kanne, E. Donnelly

*Douglas A, Lobby Level*

**Thursday, May 6**

8:00 am-9:30 am

*Douglas A, Lobby Level*


*Elizabeth G, Second Level*

10:00 am-11:30 am

*Douglas C, Lobby Level*

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**Subspecialty Tracks: Education & Competencies**

**Friday, May 7**

**12:30 pm-2:00 pm**
IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—J. Bruzzi, E. Rohren, J. Ko

**3:00 pm-4:30 pm**
IC413. Thoracic PET/CT: Interpretation Predicaments and Future Developments—O. Mawlawi, J. Erasmus, M. Truong, T. Wong


**Douglas C, Lobby Level**

**Sunday, May 2**

**8:00 am-12:00 noon**
Item-Writing Workshop

**1:30 pm-5:00 pm**
Education Seminar: Effective Feedback

**Monday, May 3**

**10:50 am-12:00 noon**

**SS2. Efficacy, Education and PACS: Policy and Operations—Moderators: E. Fraile-Moreno, B. Richmond; Keynote: Informatics for Operational Efficiency 2.0—D. Channin**

**Wednesday, May 5**

**1:00 pm-2:30 pm**
IC314. Radiation Safety (vascular and interventional radiology)—B. Dixon, K. Ogden, R. Thornton

**4:00 pm-5:30 pm**
IC316. Ethical and Medical-Legal Issues in Radiology—P. Kornguth, L. Berlin

**Thursday, May 6**

**3:00 pm-4:30 pm**
IC414. Medical Professionalism—G. Butler; Beyond Substance Abuse: Stress, Burnout, and Depression—S. Brown (2009 Berlin Scholar)

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

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

**Friday, May 7**

8:00 am-9:30 am
IC502. Exposure to Low Dose Radiation from Medical Imaging—R. Fazel; Measuring the Quality of Life Effects of Diagnostic Tests—S. Swan

Elizabeth H, Second Level

10:00 am-11:30 am
IC506. Contrast Materials–Critical Update: Contrast Induced Nephropathy—B. Herts; Allergic Reactions to Contrast Material—J. Ellis; Nephrogenic Systemic Fibrosis—P. Kuo (abdominal imaging)

Douglas A, Lobby Level

1:00 pm-2:30 pm
IC509. Radiation Issues Related to CT Utilization—M. Parker; Strategies to Reduce CT Dose—M. Gunn

Douglas B, Lobby Level

**EMERGENCY/GENERAL RADIOLOGY**

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

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

**Sunday, May 2**

4:00 pm-5:00 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E)—Setting the PAC3E of Imaging

Manchester Ballroom, Second Level

**Monday, May 3**

8:30 am-9:30 am/11:00 am-12:00 noon/4:00 pm-5:00 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E)—Setting the PAC3E of Imaging

Manchester Ballroom, Second Level

For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.

**Tuesday, May 4**

7:00 am-7:30 am
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC3E)—Setting the PAC3E of Imaging

Manchester Ballroom, Second Level

1:00 pm-2:30 pm
IC208. Acute Bowel—Current Imaging: Bowel Obstruction—W. Thompson; MDCT Techniques and Trauma—R. Thoeni; Small Bowel Ischemia and Obstruction—C. Menias; Diverticulitis and Appendicitis—E. Webb

Douglas C, Lobby Level

**Wednesday, May 5**

4:00 pm-5:30 pm

Elizabeth G, Second Level

**Thursday, May 6**

7:00 am-8:00 am
Power Hour: Emergency/General Radiology—D. Katz, moderator

Randle B, Fourth Level

8:00 am-9:30 am

Douglas C, Lobby Level

10:00 am-11:30 am

Douglas A, Lobby Level

12:30 pm-2:00 pm
IC410. Emergency Radiology: Simplifying the Diagnosis of Complex Musculoskeletal Injuries: Simplifying Intra-Articular Calcaneus Fractures—O.C. West; Less Common and Sometimes Confusing Injuries in and About the Hip—L. Rogers; Simplifying Radiographic Indicators of Major Ligamentous Injuries of the Knee—J. Yu

Douglas C, Lobby Level

3:00 pm-4:30 pm

Douglas C, Lobby Level
**SUBSPECIALTY TRACKS: GASTROINTESTINAL IMAGING**

**Friday, May 7**

8:00 am-9:30 am  
IC503. Emergency Radiology: Neuroradiology, Head and Neck  
Emergencies—Acute Head and Neck Infections—W. Kubal; MDCT of Cranio-Facial Trauma—M. Bernstein; Neck CTA in Trauma—F. Munera

**GASTROINTESTINAL IMAGING**

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

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

**Monday, May 3**

1:00 pm-3:00 pm  

**Tuesday, May 4**

7:00 am-8:00 am  
Power Hour: Abdominal Imaging—A. Qayyum, moderator

7:00 am-10:30 am  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PACE)—Setting the PAC3E of Imaging  
Manchester Ballroom, Second Level

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**Wednesday, May 5**

8:00 am-9:30 am  
IC301. CT Colonography—Technique, Interpretation and the Future: New Strategies for CTC Interpretation—J. Yee; Noncathartic CT Colonography—M. Zalis; State-of-the-Art CTC Technique—D. Kim; CTC Reimbursement and the Future—J. Yee

**Thursday, May 6**

7:30 am-10:00 am  
Review Course: Gastrointestinal Imaging

8:00 am-9:30 am  
**Subspecialty Tracks: Genitourinary Imaging**

10:00 am-12:00 noon
SS23. Gastrointestinal Imaging: Pancreaticobiliary—Moderators: J.K. Han, B. Yeh; Keynotes: Contemporary Imaging of Cystic Pancreatic Lesions—J.K. Han; Imaging of Biliary Obstruction—B. Yeh

Elizabeth G, Second Level

12:30 pm-2:00 pm
IC408. Beyond the Visceral Organs—The Mesentery and Peritoneum: Peritoneal Spaces: Emphasis on Compartmentalization of the Perihpatic Space—P. Min; Vasculature and Improved Abdominopelvic Diagnosis—B. Yeh; Retroperitoneal Spaces—J. Brink

Douglas A, Lobby Level

Elizabeth H, Second Level

3:00 pm-4:30 pm

Douglas C, Lobby Level

**For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.**

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**Genitourinary Imaging**

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

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

**Monday, May 3**

1:00 pm-4:30 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PACE) Setting the PACE of Imaging

Manchester Ballroom, Second Level

**Tuesday, May 4**

7:00 am-8:00 am
Power Hour: Abdominal Imaging—A. Qayyum, moderator

Randle B, Fourth Level

7:00 am-10:30 am
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PACE) Setting the PACE of Imaging

Manchester Ballroom, Second Level

**Wednesday, May 5**

8:00 am-9:30 am

Elizabeth F, Second Level

1:00 pm-3:00 pm
IC311. Benign Diseases of the Female Pelvis: Imaging of Infertility: From HSG to MRI—J. Fielding; Urogynecology and Pelvic Floor Imaging—A. Thurmond; Problematic Early Pregnancies—R. Goldstein; The Cystic Ovarian Mass—M. Patel

Douglas A, Lobby Level

4:00 pm-6:00 pm
IC315. Renal Parenchyma, Vessels and Urothelium: Renal Parenchyma—V. Dogra; GU Vasculature—M. Lockhart; Urothelium—E. Coold; Renal Neoplasms—Z. Wang

Douglas C, Lobby Level

*Advanced Level Course
**SUBSPECIALTY TRACKS: MUSCULOSKELETAL IMAGING**

4:00 pm-5:30 pm

Elizabeth G, Second Level

**Thursday, May 6**

8:00 am-9:30 am

Douglas C, Lobby Level

12:30 pm-2:00 pm
IC408. Beyond the Visceral Organs—The Mesentery and Peritoneum: Peritoneal Spaces: Emphasis on Compartamentalization of the Perihepatic Space—P. Min; Vasculature and Improved Abdominopelvic Diagnosis—B. Ye; Retroperitoneal Spaces—J. Brink

Douglas A, Lobby Level

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

Elizabeth H, Second Level

3:00 pm-4:30 pm

Douglas C, Lobby Level

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

Douglas A, Lobby Level

3:00 pm-5:00 pm

Elizabeth G, Lobby Level

**Friday, May 7**

7:30 am-10:00 am
Review Course: Genitourinary Imaging

Manchester Ballroom, Second Level:

8:00 am-9:30 am

Douglas B, Lobby Level

* Advanced Level Course

10:00 am-11:30 am
IC506. Contrast Materials—Critical Update: Contrast Induced Nephropathy—B. Herts; Allergic Reactions to Contrast Material—J. Ellis; Nephrogenic Systemic Fibrosis—P. Kuo

Douglas A, Lobby Level

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

Douglas C, Lobby Level

1:00 pm-3:00 pm

Douglas D, Lobby Level

**MUSCULOSKELETAL IMAGING**

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

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

**Sunday, May 2**

5:30 pm-6:00 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PACE)—Setting the PAC3E of Imaging

Manchester Ballroom, Second Level

**Monday, May 3**

11:00 am-12:00 noon / 4:30 pm-6:10 pm
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PACE)—Setting the PAC3E of Imaging

Manchester Ballroom, Second Level

4:00 pm-6:00 pm

Douglas A, Lobby Level

* For a listing of abstracts Included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 15.
**Subspecialty Tracks: Musculoskeletal Imaging**

**Tuesday, May 4**

8:00 am-9:30 am  
IC203. Rotator Cuff of the Shoulder: Why, How and Where It Fails—D. Resnick  
*Douglas A, Lobby Level*

10:00 am-11:30 am  
IC206.* Lateral Elbow Injuries: MRI—Z.S. Rosenberg; Ligament and Other Tendon Injuries of the Elbow: MRI—V. Khoury; Ultrasound Evaluation—J. Jacobson  
*Douglas C, Lobby Level*

1:00 pm-2:30 pm  
IC209.* Hip Imaging and Sports Hernia—W. Morrison, D. Blankenbaker, I. Omar  
*Douglas A, Lobby Level*

4:00 pm-5:30 pm  
IC212. Lesions of the Jaw and Larynx—R. Daffner, A. Lupetin  
*Douglas B, Lobby Level*

**Wednesday, May 5**

8:00 am-9:30 am  
IC303. MR Imaging of the Knee—M. Recht, C. Glaser  
*Douglas B, Lobby Level*

*Elizabeth H, Second Level*

10:00 am-11:30 am  
IC307. Arthritis: Basic and Advanced Imaging—D. Flemming, M. Bruno, L. Bancroft  
*Douglas C, Lobby Level*

1:00 pm-3:00 pm  
*Elizabeth H, Second Level*

4:00 pm-5:30 pm  
IC318. Musculoskeletal Tumors and PET Imaging—M. Murphey, J. Peterson  
*Douglas B, Lobby Level*

**Thursday, May 6**

7:00 am-8:00 am  
Power Hour: Musculoskeletal Imaging—L. Cerezal, N. Safadar, moderators  
*Randle A, Fourth Level*

8:00 am-9:30 am  
IC403. Multimodality Imaging of the Shoulder—K. Buckwalter, K. Schreibman  
*Douglas B, Lobby Level*

**Friday, May 7**

10:00 am-12:00 noon  
SS27. Musculoskeletal Imaging: Upper and Lower Extremity: MR and CT Advances—Moderators: M. Robbin, A. Gentili; Keynote: Technical Advances in Imaging of the Knee—A. Gentili  
*Elizabeth F, Lobby Level*

* Advanced Level Course
**Subspecialty Tracks: Neuroradiology**

**Neuroradiology**

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

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

**Sunday, May 2**

**4:00 pm-6:00 pm**

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

**Manchester Ballroom, Second Level**

**Monday, May 3**

**7:30 am-12:00 noon**

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

**Manchester Ballroom, Second Level**

**10:30 am-12:00 noon**

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

**Douglas B, Lobby Level**

**1:00 pm-2:30 pm**

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

**Elizabeth H, Second Level**

**Tuesday, May 4**

**8:00 am-9:30 am**

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

**Elizabeth H, Second Level**

**10:00 am-11:30 am**

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

**Douglas A, Lobby Level**

**1:00 pm-2:30 pm**


**Douglas B, Lobby Level**

**Wednesday, May 5**

**8:00 am-9:30 am**

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

**Elizabeth G, Second Level**

**10:00 am-11:30 am**

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

**Douglas B, Lobby Level**

**Thursday, May 6**

**8:00 am-9:30 am**


**Randle B, Fourth Level**

**10:00 am-11:30 am**


**Elizabeth F, Second Level**

**2:30 pm-5:00 pm**

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

**Elizabeth F, Second Level**

**2:30 pm-5:00 pm**

**Review Course: Neuroradiology**

**Manchester Ballroom, Second Level**

*Advanced Level Course*
**Subspecialty Tracks: Nuclear Medicine**

**Friday, May 7**

**7:00 am-8:00 am**
Power Hour: Neuroradiology—C. Glastonbury, moderator

*Randle B, Fourth Level*

**8:00 am-9:30 am**

*Douglas A, Lobby Level*

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

*Elizabeth G, Second Level*

**10:00 am-11:30 am**
IC507. Imaging of the Post-Treatment Neck With CT and MRI—C. Glastonbury, D. Williams

*Elizabeth H, Second Level*

**1:00 pm-2:30 pm**
IC510.* Imaging of Children and Adults With Epilepsy—N. Salamon, R. Lee

*Douglas D, Lobby Level*

**10:30 am-12:00 noon**

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

*Douglas A, Lobby Level*

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

*Douglas B, Lobby Level*

**1:00 pm-2:30 pm**

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

*Elizabeth H, Second Level*

**4:00 pm-6:00 pm**
SS7. Nuclear Medicine—Moderators: D. Yoo, T. Wong; Keynote: PET Response Criteria in Solid Tumors (PERCIST 1.0)—H. Jacene

*Randle A, Fourth Level*

**Tuesday, May 4**

**8:00 am-9:30 am**
IC205. Nuclear Medicine Therapies for Cancer: Radioimmunotherapy, Microspheres Therapy and Radioiodine Therapy—A. Sheikh, H. Jacene, S. Goetze

*Elizabeth F, Second Level*

**1:00 pm-3:30 pm**
Review Course: Nuclear Medicine

*Manchester Ballroom, Second Level*

**Wednesday, May 5**

**4:00 pm-5:30 pm**
IC318. Musculoskeletal Tumors and PET Imaging—M. Murphey, J. Peterson

*Douglas B, Lobby Level*

**Thursday, May 6**

**12:30 pm-2:00 pm**
IC409. CT and PET/CT: SPN, Lung Cancer and Other Thoracic Malignancies—J. Bruzzi, E. Rohren, J. Ko

*Douglas B, Lobby Level*

**3:00 pm-4:30 pm**
IC413. Thoracic PET-CT: Interpretation Predicaments and Future Developments—O. Mawlawi, J. Erasmus, M. Truong, T. Wong

*Elizabeth F, Second Level*

**For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.**
**Subspecialty Tracks: Pediatric Imaging**

**Pediatric Imaging**

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

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

**Sunday, May 2**

2:30 pm-3:30 pm  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC/E)—Setting the PAC/E of Imaging  
Manchester Ballroom, Second Level

**Monday, May 3**

5:30 pm-6:10 pm  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC/E)—Setting the PAC/E of Imaging  
Manchester Ballroom, Second Level

**Tuesday, May 4**

7:00 am-10:30 am  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC/E)—Setting the PAC/E of Imaging  
Manchester Ballroom, Second Level

4:00 pm-6:00 pm  
Elizabeth H, Second Level

**Wednesday, May 5**

7:00 am-8:00 am  
Power Hour: Pediatric Imaging—T. Huisman, moderator  
Randle A, Fourth Level

8:00 am-9:30 am  
Elizabeth H, Second Level

For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.
**Subspecialty Tracks: Ultrasound**

**Ultrasound**

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

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

**Tuesday, May 4**

10:00 am - 11:30 am  
IC206. Lateral Elbow Injuries: MRI—Z.S. Rosenberg; Ligament and Other Tendon Injuries of the Elbow: MRI—V. Khoury; Ultrasound Evaluation—J. Jacobson  
**Douglas C, Lobby Level**

**Thursday, May 6**

12:30 pm - 2:00 pm  
IC412.* Contrast-Enhanced Ultrasound in Radiology—Where Are We in 2010: Physics and Safety of Bubbles, Instrumentation, Monitoring Angiogenesis, and Future Innovations—P. Burns; The Clinical Role for CEUS in Abdominal/Pelvic Imaging—S. Wilson  
**Elizabeth H, Second Level**

3:00 pm - 4:30 pm  
IC416. Renal Sonography: Renal Lesions Hiding in Plain Sight—B. Hashimoto; Duplex and Color Doppler of the Kidneys—S. Teefey  
**Douglas A, Lobby Level**

**Friday, May 7**

7:00 am - 8:00 am  
Power Hour: Ultrasound—M. Dighe, moderator  
**Randle A, Fourth Level**

8:00 am - 9:30 am  
**Douglas B, Lobby Level**

10:00 am - 11:30 am  
IC508. Pearls and Pitfalls in Obstetric Ultrasound: First Trimester—T. Angtuaco; Second and Third Trimesters Part 1—L. Romine; Second and Third Trimesters Part II—D. Pretorius  
**Douglas C, Lobby Level**

2:00 pm - 4:30 pm  
Review Course: Ultrasound  
**Manchester Ballroom, Second Level**

**Vascular and Interventional Radiology**

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

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

**Sunday, May 2**

12:30 pm - 12:50 pm / 3:10 pm - 3:30 pm / 4:30 pm - 5:00 pm / 5:30 pm - 6:00 pm  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC-E)—Setting the PAC-E of Imaging  
**Manchester Ballroom, Second Level**

**Monday, May 3**

8:00 am - 9:30 am  
IC105. Thromboembolic Axis of Evil: DVT, PE and IVC Filters—T. Burdick, T. Kooy, L. Findeiss  
**Elizabeth H, Second Level**

10:00 am - 10:30 am  
Categorical Course: Practical Approaches to Common Clinical Conditions: Efficient Imaging (PAC-E)—Setting the PAC-E of Imaging  
**Manchester Ballroom, Second Level**

10:30 am - 12:00 noon  
IC110. Pulmonary Interventions: AVMs and Bronchial Artery Embolization; Diagnosis—A. Funaki; Pulmonary Embolization—C. Burke; Bronchial Embolization—B. Funaki  
**Elizabeth G, Second Level**

1:00 pm - 2:30 pm  
**Randle A, Fourth Level**

4:00 pm - 5:30 pm  
IC117. Interventional Radiology for the Diagnostic Radiologist—C. Ray, A. Nemcek, K. Kondo  
**Elizabeth G, Second Level**

* For a listing of abstracts included in the scientific sessions and power hours, please refer to the daily schedule. The categorical course schedule can be found on pages 11-12 and the case-based review schedule can be found on page 13.

* Advanced Level Course
**Subspecialty Tracks: Vascular and Interventional Radiology**

**Tuesday, May 4**

7:00 am-8:00 am  
Power Hour: Vascular and Interventional Radiology—A. Nemcek, moderator  
Randle A, Fourth Level

10:00 am-11:30 am  
Randle A, Fourth Level

1:00 pm-2:30 pm  
Randle A, Fourth Level

4:00 pm-5:30 pm  
IC214. Management of Challenging Cases in Interventional Liver Oncology: A Case-Based Approach—D. Madoff, R. Murthy, S. Rose  
Randle A, Fourth Level

**Wednesday, May 5**

8:00 am-9:30 am  
IC304.* Cerebral Venous Imaging: Current Techniques and Diagnostic Pitfalls—J. Leach, T. Abruzzo  
Elizabeth G, Second Level

Elizabeth F, Second Level

10:00 am-11:30 am  
IC310. Vertebroplasty: The Beginner’s Course—S. Tutton, M. Davidian  
Randle A, Fourth Level

1:00 pm-2:30 pm  
IC314. Radiation Safety (vascular and interventional radiology)—B. Dixon, K. Ogden, R. Thornton  
Randle A, Fourth Level

4:00 pm-6:30 pm  
Review Course: Vascular and Interventional Radiology  
Manchester Ballroom, Second Level

**Thursday, May 6**

8:00 am-9:30 am  
IC405. Pharmacology in Interventional Radiology: Sedation and Analgesia Primer, Anti-Coagulation and Anti-Platelet Therapy and Antibiotics, etc.—H. Ferral, P. Gamboa, J. Lopera  
Elizabeth H, Second Level

12:30 pm-2:00 pm  
IC411.* NonInvasive Vascular Neuroimaging: Ultrasound, CT Angiography and MR Angiography—J. Gemmete, D. Kim, B. Huang  
Elizabeth G, Second Level

* Advanced Level Course
**Electronic Exhibits**

**Sunday, May 2**
1:00 pm–6:00 pm  
Randle D/E, Fourth Level

**Monday–Thursday, May 3-6**
7:00 am–12:00 midnight  
Randle D/E, Fourth Level

**Friday, May 7**
7:00 am–1:00 pm  
Randle D/E, Fourth Level

**Exhibit Topics:**

- Breast Imaging  
  pages 73-74
- Cardiopulmonary Imaging  
  pages 75-77
- Efficacy, Education, Administration and PACS  
  pages 78-79
- General and Emergency Radiology  
  pages 80-82
- Gastrointestinal/Liver/Biliary/Pancreas Imaging  
  pages 83-87
- Genitourinary/Ob/Gyn Imaging  
  pages 88-91
- Musculoskeletal Imaging  
  pages 92-95
- Neuroradiology/Head and Neck  
  pages 96-100
- Nuclear Medicine/Molecular Imaging  
  page 101
- Pediatric Imaging  
  pages 102-103
- Vascular and Interventional Radiology  
  pages 104-106

The abstracts included in the scientific sessions and power hours are available at www.ajronline
Call for Papers & Exhibits

Abstract topics include:

- Administration
- Breast Imaging
- Cardiopulmonary Imaging
- Education
- Efficacy
- Emergency Radiology
- Gastrointestinal Imaging
- Genitourinary Imaging
- Gynecologic Imaging
- Interventional Radiology
- Molecular Imaging
- Musculoskeletal Imaging
- Neuroradiology
- Nuclear Medicine
- Obstetric Imaging
- PACS
- Pediatric Radiology
- Physics
- Sonography
- Vascular Imaging

Abstract submission site: www.arrs.org

The abstract submission site opens August 2, 2010.
ELECTRONIC EXHIBITS: Breast

E001. Radiologic-Pathology Correlations in Breast Imaging: A Primer for Radiologists
Ojeda-Fournier, H.; Lai, L.; Bykowski, J.; Scuderi, R.; Olson, L. University of California San Diego, San Diego, CA

E002. Review of Various Breast Lesions Detected in Multidetector CT
Chang, Y.; Ahn, H.; Hwang, J.; Kwon, K.; Choi, D. Soonchunhyang University Hospital, Seoul, Korea

E003. The Many Faces of Papillary Lesions of the Breast
McArthur, T.; Umphrey, H.; Bernreuter, W.; Hogg, D. University of Alabama at Birmingham, Birmingham, AL

E004. The Many Faces of Invasive Ductile Carcinoma
Zarzour, J.; Umphrey, H. University of Alabama at Birmingham, Birmingham, AL

E005. Spectrum of Imaging Findings in the Silicone Injected Breast
Misra, M.; Leibman, A. Jacobi Medical Center, Bronx, NY

E006. Progressive Deforming Fat Necrosis of the Breast: A Multimodality Imaging Review with Pathologic Correlation
Woods, H.; Jesinger, R.; Lovell, D.; Braithwaite, A.; DeMartini, S.; Lee, V. 1. David Grant USAF Medical Center, Travis AFB, CA; 2. Uniformed Services University of the Health Sciences, Bethesda, MD

E007. Looking Beyond the Cleavage: Manifestations of Systemic Disease in Breast Imaging
Kirwan R.; Yepes M.; Kiszonas R. 1. University of Miami/Jackson Memorial Hospital, Miami Beach, FL; 2. University of Miami, Miami, FL

E008. Rare Entities: Vascular Lesions of the Breast
Yitta, S.; Singer, C.; Heffernan, C.; Toth, H.; Mercado, C. NYU, New York, NY

E009. Review of Common Mammographic Artifacts on Both Digital and Analog Mammograms
Chatell, T.; Shah, B. Henry Ford Hospital, Grand Blanc, MI

E010. Appearances of Male Breast Carcinoma: Mammographic and Sonographic Correlates
Shah, C.; Pile-Spellman, E. NY Presbyterian Hospital, Columbia, New York, NY

E011. Pseudoangiomatous Stromal Hyperplasia (PASH): What the Radiologist Needs to Know
Trexler, N.; Umphrey, H. University of Alabama at Birmingham, Birmingham, AL

E012. Additional View: How and When to Use
Oh, Y.; Chung, S. Hallym University Medical Center, Seoul, Korea

E013. Pleomorphic Lobular Carcinoma In-situ and Pleomorphic Invasive Carcinoma: What Exactly are They and How Do We Find Them?
Lee, J.; Mercado, C.; Hernandez, O.; Moy, L.; Toth, H. 1. NYU School of Medicine, Scarsdale, NY; 2. NYU Cancer Institute, New York, NY

E014. Radiologic Pathologic Correlation of Diseases Affecting the Pregnant and Lactating Breast
Joshi, S.; Marotti, J.; Dilanii, V.; Mehta, T.; Slanetz, P. Beth Israel Deaconess Medical Center, Boston, MA

E015. Ductal Carcinoma in Situ of the Breasts Showing Unusual Imaging Findings
Park, Y.; Kim, S.; Park, J.; Lee, S.; Juhn, J.; Lee, J. 1. Busan Paik Hospital, Inje University College of Medicine, Busan, Korea; 2. Dong-A University Medical Center, Busan, Korea; 3. Bongsaeng Hospital, Busan, Korea

E016. WITHDRAWN

E017. Mammographic Asymmetries: Review of Terminology and Strategies for Increasing Cancer Detection

E018. Imaging Findings of Inflammatory Fat Necrosis Following Breast Conservation Therapy and Radiation with Clinical and Pathologic Correlation

E019. Correlation of Tumor Receptors and Histologic Grade with Imaging Features of Infiltrating Ductal Breast Carcinoma: Can Imaging Predict Prognosis?
Lewis, M.; Irshad, A.; Leddy, R.; Hashmi, A.; Ackerman, S.; Pope, T.; Cluver, A. Medical University of South Carolina, Charleston, SC

E020. Breast MRI Findings Following Deep Inferior Epigastric Perforator Flap Reconstruction
Campbell, A.; Ackerman, S.; Cluver, A.; Irshad, A.; Pope, T. Medical University of South Carolina, Charleston, SC

E021. Spectrum of MR Imaging Findings in the Post-Operative Breast
Ojeda-Fournier, H.; Brogoch, L.; Aiken, M. University of California San Diego, San Diego, CA

E022. Breast Cancer in Women 35 Years and Younger: Spectrum of Clinical, Radiological, and Pathological Findings
Bickell K.; Kuo J.; Soetaert A.; Larsen L. 1. University of Southern California School of Medicine, La Canada, CA; 2. St. Luke’s Cancer Institute Center for Breast Care, Kansas City, MO

E023. Invasive Lobular Carcinoma: MRI Appearance with Histopathologic Correlation
Merchant, K.; Fundaro, G. Henry Ford Hospital, Troy, MI

E024. Detection and Reporting of Extramammary Findings During Breast MRI
Ojeda-Fournier, H.; Deshmukh M.; Hiller L.; Comstock C.; Mahoney M.; Bykowski J. 1. University of California San Diego, San Diego, CA; 2. University of Cincinnati, Cincinnati, OH

* offers CME credit
E025. * Optimal Timing of Breast MRI Examinations for Premenopausal Women Who Do Not Have a Normal Menstrual Cycle
Ellis, R. Gundersen Lutheran Medical Center, La Crosse, WI

E026. Optimizing Breast MRI: Pitfalls, Errors and How to Avoid Them
Yepes, M.; Kiszonas, R.; Infante, J. University of Miami, Pembroke Pines, FL

E027. * Breast MRI: An Algorithm for Successful Cancer Diagnosis
Ellis, R. Gundersen Lutheran Medical Center, La Crosse, WI

E028. * Inflammatory Breast Carcinoma (IBC): Imaging Findings on Mammography, US, MRI, and PET/CT
Winston, E.; Le-Petross, H.; Cristofanilli, M.; Gong, Y.; Yang, W. M.D. Anderson Cancer Center, Houston, TX

E029. * Optimizing 1.5T and 3.0T Contrast-Enhanced Dynamic Breast MRI in Your Practice
Lewis, M.; Moccaldi, M.; Mercado, C.; Lee, J.; Toth, H.; Moy, L. NYU Langone Medical Center, New York, NY

E030. * Papillary Breast Carcinoma without Frank Invasion: Imaging Findings with Pathologic Correlation. Emphasis on MRI
Ecanow, J.; Newstead, G.; Mueller, J. University of Chicago, Chicago, IL

E031. MRI Findings of Pseudoangiomatous Stromal Hyperplasia (PASH) with Clinical and Pathologic Correlation
Glazebrook, K.; Jones, K.; Reynolds, C. Mayo Clinic, Rochester, MN

E032. * Invasive Lobular Carcinoma of the Breast: Potentially Useful Imaging Findings for Differential Diagnosis
Boatsman, J.; Park, J.; Yang, L.; Fajardo, L. University of Iowa Hospitals and Clinics, Iowa City, IA

E033. MRI Diffusion Characteristics of Benign Lumpectomy Scars
Hain, K.; Kelcz, F. University of Wisconsin, Madison, WI

E034. MDCT Angiography Application for Preoperative Planning in Patients Undergoing Breast Reconstruction
Saba, L.; Atzeni, M.; Ribuffo, D.; Mallerini, G. Azienda Ospedaliero Universitaria, Cagliari Sardegna, Italy

E035. Male Breast Cancer: Mammographic, Sonographic and PET CT Appearance with Histopathologic Correlation
Vance, L.; Merchant, K.; Mandava, S. Henry Ford Hospital, Troy, MI

E036. The Assessment of Breast Cancer Response and the Prediction of Pathologic Complete Response to Neoadjuvant Chemotherapy: Comparison of MRI and PET
Kim, S.; Moon, W.; Kang, J. 1. Seoul National University Hospital, Healthcare System Gangnam Center, Seoul, Korea; 2. Seoul National University Hospital, Seoul, Korea

E037. A Quality Review of the Timeliness of Breast Cancer Diagnosis and Treatment in an Integrated Breast Center
Ellis, R.; Landercasper, J.; Linebarger, J.; Mathiasen, M.; Johnson, J.; Marcou, K.; De Maiffe, B.; Jago, G. Gundersen Lutheran Medical Center, La Crosse, WI

E038. Radiologic Features of Infection and Inflammatory Lesions in Breast: Imaging and Pathology Correlations
An, J.; Kang, J.; Woo, J. Eulji University, School of Medicine, Seoul, South Korea

E039. * Fat Necrosis In Screening Mammography: A Sheep in Wolf’s Clothing
Woytak, A. SUNY Upstate Medical University, University Hospital, East Syracuse, NY

E040. Extended Field of View in Breast Ultrasound: An Effective and Practical Tool for the Evaluation of Normal Anatomy, Benign and Malignant Pathology
Moncayo R.; Moncayo V. 1. Ecomedica Diagnostic Ultrasound Center, Quito, Ecuador; 2. Emory University School of Medicine, Atlanta, GA

Grover, R.; Cook, H.; Seely, J. University of Ottawa, Ottawa, Canada

E042. Typical and Atypical Imaging Appearance of Fibroadenoma: Multimodality Imaging
Abdel Razek, A. Mansoura University Hospital, Mansoura, Egypt

E043. Elastography ‘Target Sign’ as a Predictor of Benignity of Breast Ultrasound Lesions
Talley, M.; Sisney, G.; Salkowski, L.; Burnside, E.; Lindstrom, M. University of Wisconsin, Madison, WI

Kumm, T.; Chau, A.; Szabunio, M. 1. University of South Florida, Tampa, FL; 2. H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

E045. Utility of Diffusion Weighted Imaging in Differentiating Metastatic Versus Uninvolved Axillary Lymph Nodes
Net, J.; Kirwan, R.; Yepes, M.; Pattany, P. Jackson Memorial Hospital/University of Miami, Miami Beach, FL

E046. * Axillary and Intramammary Lymph Nodes Visualized on Mammography: Review of Suspicious Imaging Features and Avoidance of Pitfalls in Characterization

* offers CME credit
**ELECTRONIC EXHIBITS: Cardiopulmonary**

**E047.** Post Therapeutic Imaging of Aortic Coarctation  
Vummidi, D.; Mitsumori, L.; Kicska, G.; Reddy, G. University of Washington School of Medicine, Seattle, WA

**E048.** Pictorial Review of the Aorta Before, During, and After Repair  
Ginat, D.; Bhatt, S.; Singh, M.; Dogra, V. University of Rochester, Rochester, NY

**E049.** Role of Diagnostic Imaging in Takayasu’s Arteritis  
Carrillo, M.; Felipe, T.; Paul, N.; Nguyen, E.; Summerfield, R. Toronto General Hospital, Toronto, Canada

**E050.** Embryology, Anatomy, Normal Variants, and Pathology of the Interalatrial Septum  
Rojas, C.; El-Sherief, A.; Chung, J.; Choy, G.; Medina-Zuluaga, H.; Abbara, S. Massachusetts General Hospital, Boston, MA

**E051.** Step-by-Step Guide on How to Obtain Standardized Cardiac Imaging Planes and What to Look for Once you Get There  
El-Sherief, A.; Rojas, C.; Chung, J.; Choy, G.; Medina-Zuluaga, H.; Abbara, S. Massachusetts General Hospital, Boston, MA

**E052.** Echocardiography and MDCT, Complimentary Techniques  
Rojas, C.; Medina-Zuluaga, H.; Chung, J.; Reingold, J.; El-Sherief, A.; Francis, S.; Abbara, S. Massachusetts General Hospital, Boston, MA

**E053.** Involvement of Heart and Pericardium by Secondary Malignancies—Rad Path Series at a Thoracic Oncology Center  
Madan, R.; Buckley, O.; Padera, R.; Trotman-Dickenson, B.; Rybicki, F.; Hunsaker, A. Brigham & Women’s Hospital, Boston, MA

**E054.** How to Perform a Cardiac CT: A Flowchart  
Green, D.; Mitsumori, L.; Warren, W.; Shuman, W. University of Washington, Seattle, WA

**E055.** Lipomatous Metaplasia of the Myocardium: Multimodality Imaging of a Common Finding in the Chronic Phase of Myocardial Infarction  
Farvid, A.; Talkin, B.; Young, A.; Hindoyan, A.; Shinbane, J.; Shriki, J. University of Southern California, Keck School of Medicine, Los Angeles, CA

**E056.** Congenital Anomalies of the Coronary Arteries  
Talkin, B.; Ambruster, S.; Wilcox, A.; Baker, C.; Shinbane, J.; DeFrance, T.; Shriki, J. 1. University of Southern California, Keck School of Medicine, Los Angeles, CA; 2. University of California at San Francisco, San Francisco, CA

**E057.** Optimal Viewing Parameters for Myocardial Stress Perfusion CT  
Techasith, T.; Ghoshhajra, B.; Drzezga, T.; Rogers, J.; Medina-Zuluaga, H.; Blankstein, R.; Maurovich-Horvat, P.; Cury, R. 1. Massachusetts General Hospital, Boston, MA; 2. Stanford University Hospital, Palo Alto, CA; 3. Brigham and Women’s Hospital, Boston, MA; 4. Baptist Cardiac and Vascular Institute, Miami, FL

**E058.** Coronary Artery Bypass Graft Aneurysms and Pseudoaneurysms  
Liu, H.; Ferguson, E. University of Texas at Houston, Houston, TX

**E059.** Cardiac MRI of the Fontan Procedure: A Review of MRI Appearance of Normal and Abnormal Findings and of Long Term Complications  
Fredenburg, T.; Cohen, M.; Johnson, T. Indiana University, IN

**E060.** Imaging Ventricular Septal Defects In Adults: Pearls and Pitfalls  
Newton, T.; Wong, K.; Paul, N.; Crean, A.; Nguyen, E. Toronto General Hospital, Toronto, Canada

**E061.** Imaging Manifestations of Pulmonary Arterial Hypertension: Moving Beyond the Pulmonary Artery  
Brouha, S.; Peshock, R. University of Texas Southwestern Medical Center, San Diego, CA

**E062.** Myocardial BOLD Imaging: A New Frontier for Ischemic Heart Disease  
Peter, S.; Beache, G. University of Louisville, Louisville, KY

**E063.** Advanced Sequences Used in Cardiac MRI—Review of Physics, Technique, Applications and Pitfalls  
Rajiah, P.; Setser, R. Cleveland Clinic Foundation, Cleveland, OH

**E064.** Cardiovascular Imaging on 1.0T Open MRI: Practice, Pitfalls and Promise  
Pantelic, M.; Poopat, C.; Song, T. Henry Ford Hospital, Detroit, MI

**E065.** Global and Regional Functional MR Imaging of Heart—Pictorial Review of Techniques and Pathological Patterns  
Rajiah, P.; Setser, R.; Flam, S. Cleveland Clinic Foundation, Cleveland, OH

**E066.** MRI in Congestive Cardiac Failure—A Pictorial Review  
Rajiah, P. Cleveland Clinic Foundation, Cleveland, OH

**E067.** Imaging Following Vascular Surgeries in the Chest—A Pictorial Review  
Rajiah, P.; Kanne, J. 1. Cleveland Clinic Foundation, Cleveland, OH; 2. University of Wisconsin, Madison, WI

**E068.** MRI Imaging of Atypical Cardiac Masses—A Pictorial Review  
Rajiah, P.; Kanne, J. 1. Cleveland Clinic Foundation, Cleveland, OH; 2. University of Wisconsin, Madison, WI

**E069.** MRI Imaging of Atypical Cardiac Masses—A Pictorial Review  
Rajiah, P.; Kanne, J.; Flam, S. 1. Cleveland Clinic Foundation, Cleveland, OH; 2. University of Wisconsin, Madison, WI

**E070.** Role of MRI in the Evaluation of Pericardial Inflammation and Constriction—Pictorial Review  
Rajiah, P.; Flam, S. Cleveland Clinic Foundation, Cleveland, OH

**E071.** Role of MRI in the Evaluation of Myocardial Infarction—A Pictorial Review  
Rajiah, P.; Flam, S. Cleveland Clinic Foundation, Cleveland, OH

**E072.** MRI Primer of Congenital Heart Defect Repair  
E073. Comparison of Pre- and Post-Contrast MRI Echoplanar Imaging Sequences in Evaluation of Aortic Regurgitation—A MRI Study with Echocardiographic Correlation
Rajiah, P.; Setser, R.; Flamm, S. Cleveland Clinic Foundation, Cleveland, OH

E074. Utility of Comprehensive, Low Dose Preoperative CT Evaluation of the Cardiac Surgery Patient
Delman, T.; Markowitz, A.; Sachs, P.; Akty, R.; Shaffer, S.; Giancibello, L.; Gilkeson, R. University Hospitals Case Medical Center, Cleveland, OH

E075.* Pulmonary Valve Disease: Improved Diagnosis with Advanced CT and MRI Technology
Vogelius, E.; Gilkeson, R.; Sachs, P.; Markowitz, A.; Akty, R. University Hospitals Case Medical Center, Cleveland, OH

E076. Incidental Extra-Coronary Cardiac Findings in Coronary CT Angiography (CCTA)—Looking Beyond the Coronaries
Aljizeeri, A.; Mumtaz, H.; Heilbron, B.; Taylor, C.; Ellis, J.; Leipsic, J. St. Paul’s Hospital, Vancouver, Canada

E077. Dose Reduction Tools in Coronary CT: Opening New Horizons
Mumtaz, H.; Aljizeeri, A.; Heilbron, B.; Taylor, C.; Johnson, M.; Ellis, J.; Leipsic, J. St. Paul’s Hospital, Vancouver, Canada

E078. The What, Why, and Where of Implantable Cardiac Devices
Wong, K.; Newton, T.; Nguyen, E.; Crean, A.; Nathakumar, K.; Paul, N. University Health Network, Toronto, Canada

E079.* Primary Tumors of the Chest Wall: An Imaging Guide
Mullan, C.; Madan, R.; Qian, X.; Trotman-Dickenson, B.; Hunsaker, A. Brigham & Women’s Hospital, Boston, MA

E080. Solitary Fibrous Tumors of the Thorax and Abdomen—Experience at a Tertiary Oncology Center
Madan, R.; Mullan, C.; Buckley, O.; Qian, X.; Trotman-Dickenson, B.; Hunsaker, A.1 Brigham & Women’s Hospital, Boston, MA; 2. Beth Israel Deaconess Medical Center, Boston, MA

E081. Lung Bud Anomalies: Pictorial Essay

E082.* Mesothelioma: Beyond the Pleura!
Madan, R.; Mullan, C.; Sagarbaker, D.; Chirieac, L.; Gill, R.; Jacobson, F.; Hunsaker, A. Brigham & Women’s Hospital, Boston, MA

E083. Varicella-Zoster Infection: A Pictorial Essay
Souza, F.; O’Regan, K.; Jagannathan, J.; Ramiyaq, N.; Van Den Abbeele, A. Dana Farber Cancer Institute, Boston, MA

E084. A Quantitative Comparison of Image Quality and Radiation Dose in Patients Undergoing CT Pulmonary Angiography with 120 kV and 100 kV
Fanous, R.; Paul, N.; Kashani, H.; Menezes, R. University of Toronto, Toronto, Canada

E085. Lung Bud Anomalies: Pictorial Essay

E086. Emergent CT and Radiographic Thoracic Imaging Signs
Gabe, M.; Gerena, M.; Perone, R. St. Vincents Medical Center, New York, NY

E087.* Tumors of the Trachea: From the Usual to the Unusual
Carrillo, M.; Patsios, D.; Summerfield, R.; Gordon, W.; Chung, T. Toronto General Hospital, Toronto, Canada

E088.* Pulmonary Findings in Patients with Tuberous Sclerosis and Changes Following Treatment with Rapamycin
Hyun, C.; Ashwal, S.; Fisher, K. Loma Linda University Medical Center, Loma Linda, CA

E089. Evidence Based Approach to Imaging Evaluation of Pulmonary Embolism in Pregnancy: Safety and Utility of Current Modalities
Krishnamoorthy, A.; Thomas, S.; Vannier, M.; Pu, Y. University of Chicago Medical Center, Chicago, IL

E090. Don’t Forget the Lateral! Lateral Chest X-Ray Anatomy and Physiology
Jethwa, S.; Loona, J.; Reede, D.; Martino, J.; Shah, R.1 Long Island College Hospital, Brooklyn, NY; 2. North Shore/LIJ, Manhasset, NY

E091. * Bronchopulmonary Malformations: A Pictorial Essay
Hwang, B.; Perone, R.; Gupta, S.; Berlin, F. New York Medical College at St. Vincent’s Hospital and Medical Center of NY, New York, NY

E092.* The Confessions of a Thoracic Misplaced Line: A Pictorial Essay
Hwang, B.; Perone, R.; Gupta, S. New York Medical College at St. Vincent’s Hospital and Medical Center of NY, New York, NY

E093.* The Confessions of a Thoracic Misplaced Line: A Pictorial Essay
Hwang, B.; Perone, R.; Gupta, S. New York Medical College at St. Vincent’s Hospital and Medical Center of NY, New York, NY

E094. Variant Origins of the Vertebral Artery—An Interactive Review
Kuriakose, J.; Gross, B.; Quint, D.; Kincaid, J.; Schafer, J.; Stojanovska, J. University of Michigan, Ann Arbor, MI

E095.* Immediate CT Findings of Cryoablated Malignant Lung Nodules, < 2cm, Correlated with Extent of GGO and Necrosis
Ham, S. Korea University Anam Hospital, Seoul, Korea

E096.* Assessment of Collateral Pathway Formation in Severe Occlusive Coronary Artery Atherosclerotic Disease Using Multidetector 64-Slice CT Coronary Angiography with Conventional Coronary Angiography Correlation
Chan, I.; Topp, C.; Elliot, T.; Lydell, C.; Hutchison, S.; Merchant, N.1 University of Western Ontario (UWO), London, Canada; 2. University of Calgary, Calgary, Canada
E097. Role of CT Scan in Evaluation of Cardiovascular Surgeries: A Review
Rajiah, P.; Kanne, J. 1. Cleveland Clinic Foundation, Cleveland, OH; 2. University of Wisconsin, Madison, WI

E098. Video-Assisted Thoracoscopic Surgery (VATS): What the Radiologist Needs to Know
Parhaghi, C.; Tu, R.; Daluvey, S.; Akin, E. The George Washington University, Washington, DC

E099. Pulmonary Fungal Infections in Immunocompromised Patients: A Review of the Plain Film and MDCT Radiographic Findings
Gupta, S.; Hwang, B.; Perone, R. St. Vincent’s Catholic Medical Center, New York, NY

E100. Pulmonary Metastases: Spectrum of High-Resolution CT Findings with Pathological Correlations
Furuya, K.; Yasumori, K.; Sakino, I.; Takeo, S.; Monosaki, S.; Sakai, M.; Hirakaa, K.; Muranaka, T. 1. National Hospital Organization Kyoto Medical Center, Fukuoka, Japan; 2. Saiseikai Yahata General Hospital, Kitakyushu-City, Japan

E101. Radiological Spectrum of Adult Congenital Lung Disease
Vummidi, D.; Pipavath, S.; Godwin, D.; Stern, E.; Kicska, G.; Swanson, J.; Reddy, G. University of Washington School of Medicine, Seattle, WA

E102. Deciphering the Idiopathic Interstitial Pneumonias: CT Imaging Features of IPF, NSIP, COP, AIP, RB-ILD, DIP, and LIP
Ferguson, E.; Berkowitz, E. 1. The University of Texas at Houston Medical School, Houston, TX; 2. Emory University School of Medicine, Atlanta, GA

E103. An Interactive Flash-Based 3D Tutorial for Learning Segments of the Lungs and the Pulmonary Arterial System
Javan R.; Jeun B.; Duszak R. 1. Baptist Memorial Hospital, Memphis, TN; 2. NYP Weill Cornell Medical Center, New York, NY; 3. Mid-South Imaging and Therapeutics, Memphis, TN

E104. Hypersensitivity Pneumonitis—A Pictorial Review
Summerfield, R.; Carrillo, M.; Alturkistany, S.; Torres, F.; Patsios, D. University Health Network, Toronto, Toronto, Canada

E105. WITHDRAWN

E106. Staging of Non-Small Cell Lung Cancer (NSCLC): Review of Modalities for Identification and Sampling of Mediastinal Lymph Nodes
Chung, J.; Lanuti, M.; El-Sherief, A.; Rojas, C.; Abbott, G.; Shepard, J. Massachusetts General Hospital, Boston, MA

E107. MRI of Pericardium and Pericardial Disease
Zarzhevsky, N.; Chughtai, K.; Frank, L.; Mueller, G.; Cronin, P.; Stojanovska, J. University of Michigan, Ann Arbor, MI

Detterich, J.; Farvid, A.; Uzunyan, M.; Shinbane, J.; Baker, C.; Wood J.; Shriki J. 1. Children’s Hospital of Los Angeles, Los Angeles, CA; 2. University of Southern California, Keck School of Medicine, Los Angeles, CA

* offers CME credit
**E109. The After Action Review (AAR): A Process Improvement Method to Promote Quality and Continuous Learning**
McNamara, M.1,2 1. Case Medical School MetroHealth Campus/Uniformed Services University of the Health Sciences, Cleveland, OH; 2. Uniformed Services University of the Health Sciences, Bethesda, MD

Calser, C.; Lum, B.; Gheorghe, B.1 1. No Institutional Affiliation; 2. Little Company of Mary Hospital, Evergreen Park, IL

**E111. How Well Do Radiologists Remember Test Images?**
Haygood, T.; Galvan, E.; Lano, E.; Ernst, R.; Viswanathan, C.; Rohren, E.; Devine, C.; Marom, E.1 1. MD Anderson Cancer Center, Houston, TX; 2. Yale University, New Haven, CT

**E112. CTC Training for Radiology Residents**
Friedman, A.1; Lev-Toaff, A.2 1. University of Arizona, Tucson, AZ; 2. University of Pennsylvania School of Medicine, Philadelphia, PA

**E113. Evaluation of Imaging Requests Placed by Emergency Medicine Residents, Using the American College of Radiology (ACR) Appropriateness Criteria**
Logie, C.; Bond, M.; Nagy, P.1 1. University of Maryland Medical Center, Baltimore, MD; 2. University of Maryland School of Medicine, Baltimore, MD

**E114. Cross-Sectional Appearance of Paraphrenalia in the Abdomen and Pelvis**
Gulati, A.; Kieler, A. The Ottawa Hospital, Ottawa, Canada

**E115. Perfection of Roentgen's Imperfect Legacy—The Removal of the Penumbra Effect by a CAD Based on the De-Convolution Technique in Nine Case Studies of X-Ray, CT and MR**
Chui, K.; Chui, S.; Wojciechowski, A.; Glinkowski, W.; Stanfield, D.1 1. Image Enhancement Technology Ltd, Uxbridge, Middlesex, UB10 8TD, United Kingdom; 2. Prince George Regional Hospital, Prince George, Canada; 3. Medical University of Warsaw, Warsaw, Poland

**E116. Labeling of Contrast Agent Containers—A Potential Source of Confusion and Error**
Cohen, M. Indiana University, Indianapolis, IN

**E117. Current Compression Guidelines for the Practicing Radiologist**
Ali, S.; Siegel, E. University of Maryland Medical Center, Pikesville, MD

**E118. Outside the Box: Radiology and Embryology: New Techniques To Understand Disease and Diagnosis**
Gerard, P.; LeKovitz, Z.; Cooper, N.; Wu, J.; Moonthungal, S. Westchester Medical Center, New York, NY

**E119. Radiological Signs of Weapons and Munitions—How Will Non-Combatants Recognize Them?**
Maizlin, Z.; Kuruvilla, M.; Clement, J.; Vos, P.; Brown, J.1 1. McMaster University Medical Centre, Burlington, Canada; 2. St. Paul’s Hospital, Vancouver, Canada

**E120. Assessment of Radiology Residents Prior to Starting Independent Call**
Patel, N.; Richer, E.; Naumann, M.; Del Gaizo, A.; Baumgarten, D.; Mullins, M. Emory School of Medicine, Atlanta, GA

**E121. eLearning-Radiology.com: Quality Assurance of Radiology Education Material in the Internet**
Talanow, R.1,2; Grunewald, M.3; Ketelsen, D.4 1. The Cleveland Clinic, Cleveland, OH; 2. EduRad, Cleveland Heights, OH; 3. University of Erlangen/Nürnberg, Erlangen, Germany; 4. Eberhard-Karls University Tübingen, Tübingen, Germany

**E122. Prepared for Radiology Boards? A New Concept for Radiology Exam Preparation**
Talanow, R.1,2 1. The Cleveland Clinic, Cleveland, OH; 2. EduRad, Cleveland Heights, OH

**E123. Understanding Radiology Through Its History: An Interactive Quiz**
Shepherd, S.; Hoats, J.; Foster, S. Georgetown University Hospital, Washington, DC

**E124. Academic Productivity Tracking in a Teaching Radiology Department: Are the Current Methods Sufficient?**
Katur, A.; Holalkere, N.; Maietta, R.; Shaffer, K.1 1. Boston Medical Center, Boston, MA; 2. No Institutional Affiliation

**E125. Paper Writing for Trainees: Manuscript Preparation from Conception to Publication**
Johnson, P.; Fishman, E. Johns Hopkins Hospital, Baltimore, MD

**E126. Next Generation Digital Teaching Files: How to Create a Robust Teaching File System by Synergizing Free Web-Based Image Storage Services and Your Teaching File Software**
Logie, C.; Siegel, E. University of Maryland Medical Center, Baltimore, United States

**E127. Approaches to Increasing Awareness and Usage of the ACR Appropriateness Criteria Amongst our Referring Clinicians: How Can we Contribute?**
Gupta, S.; Yeghiayan, P. St. Vincent’s Catholic Medical Center, NY, New York, NY

**E128. Teaching Common Plain Film Discrepancies to Residents: “Jeopardy” Game Show Format**
Hammer, M.; Klein, K.; Jacobson, J. University of Michigan, Ann Arbor, MI

**E129. The Educational and Career Impact of Using Medical Students for Triaging Off-Hour Diagnostic Imaging Requests at a Major Academic Medical Center**
Kennedy, S.1; Knibutat, D.2; DeBasso, S.3; Bokhari, S.3; Forman, H.3 1. New York-Presbyterian Hospital-Weill Cornell Medical Center, New York, NY; 2. Yale-New Haven Hospital, New Haven, CT; 3. Yale University School of Medicine, New Haven, CT

**E130. Simulation Training in Contrast Reaction Management**
Costantino, D.; Patel, A. Hospital of the University of Pennsylvania, Philadelphia, PA
E131. Resident Familiarity with the Politics of Medical Imaging and its Perceived Overutilization
Danaie, S.; Nicholas, K.; Domanski, M.; Tu, R. George Washington University Medical Center, Washington, DC

E132. A Web-Based, History/Indication Defined Program for Protoceling MRI Exams
Baker, S.; Talanow, R.1,2 1. The University of Iowa Hospitals and Clinics, Iowa City, IA; 2. The Cleveland Clinic, Cleveland, OH; 3. EduRad, Cleveland Heights, OH

E133. New Techniques And Applications in the Teaching of NRC Concepts For The Oral Radiology Board Examination
Gerard, P.1; Lefkovitz, Z.1; Patel, H.1; Mozzor, M.1; Patel, J.1 1. Westchester Medical Center, New York, NY; 2. University Kentucky College of Medicine, Lexington, KY

E134. Will It Open? Difficulties and Solutions in Accessing CD Based Diagnostic Images
Gerard, P.1; Lefkovitz, Z.1; Donahue, B.1; Reis, S.1; Seiler, M.1 1. Westchester Medical Center, New York, NY; 2. Maimonides Medical Center, Brooklyn, NY

E135. 21st Century Downtime Processes for a Large Multispecialty Radiology Practice
Wood, C.; Williamson, S.; Riley, K. Mayo Clinic, Rochester, MN

Talanow, R.1,2; Giesel, F.3 1. The Cleveland Clinic, Cleveland, OH; 2. EduRad, Cleveland Heights, OH; 3. German Cancer Research Center (DKFZ) Heidelberg, Heidelberg, Germany

Ukisu, R.; Koyama, K.; Yagi, S.; Fukushima, T.; Ohba, K.; Fujisawa, H.; Takenaka, H.; Kushihashi, T. Showa University Northern Yokohama Hospital, Yokohama, Japan

Gerard, P.1; Lefkovitz, Z.1; Prechota, D.2; Hira, A.1; Nilsen, E.1; Lee, R.1 1. Westchester Medical Center, New York, NY; 2. Maimonides Medical Center, Brooklyn, NY

Wang, P.1; Chong, S.1; Knepp, U.1; Kielar, A.2 1. University of Michigan, Ann Arbor, MI; 2. The Ottawa Hospital, Ottawa, Canada

E140. The Joint Commission Patient Safety Goal 2: Improve Communication Among Caregivers—What the Radiologist Needs to Know
Gentili, A. University of California San Diego, San Diego, CA

E141. Residual Magnetism in MRI Suites after Quench and Controlled Rampdown of Superconducting Ultrahigh Field Magnets
Sammet, S.1; Aguilà, F.1; Koch, R.2; Knopp, M.1 1. The Ohio State University, Columbus, OH; 2. Brigham and Women’s Hospital, Boston, MA

E142. Semiautomatic Audit of Documentation of Exposure Time for Procedures Using Fluoroscopy
Gentili, A. University of California San Diego, San Diego, CA

E143. Focused Professional Practice Evaluation (FPPE) and Ongoing Professional Practice Evaluation (OPPE): What the Radiologist Needs to Know
Gentili, A. University of California San Diego, San Diego, CA

E144. The Effect of Paper or Cloth Gowns on Total Skin Electron Irradiation Dose
Hopkins, S.; Steinman, J.; Wang, I. Roswell Park Cancer Institute, Buffalo, NY

E145. Optimizing Consistent CT Contrast Enhancement with Graphical Correlation of Contrast Injection Delivery
Shet, N.1; Siegel, E.2 1. University of Maryland Medical Center, Baltimore, MD; 2. Baltimore VA Medical Center, Baltimore, MD

E146. * Partnering with Engineers: Techniques of Data Collection for Process Improvement in MR
Brandon, C.; Jacobsen, J.; Fessell, D. University of Michigan, Ann Arbor, MI

E147. In the Dark of the Night: UCSD Experience Using NightHawk Radiology Service for Resident Backup
Panko, J. University of California San Diego, San Diego, CA

E148. Tools To Improve Communication In The Radiology Department: Daily Exercises and Practical Applications
Gerard, P.1; Lefkovitz, Z.1; Miller, C.1,2; Shah, J.1; Moonthunagel, S.1 1. Westchester Medical Center, New York, NY; 2. Maimonides Medical Center, Brooklyn, NY; 3. Hackensack University Medical Center, Hackensack, NJ

Gerard, P.1; Lefkovitz, Z.1; Miller, C.1,2; Wu, J.1; Dua, S.1; Seiler, M.1 1. Westchester Medical Center, New York, NY; 2. Maimonides Medical Center, Brooklyn, NY

E150. RadLex for Dummies—A How-to Tutorial and Practical Example for Integrating RadLex for Individual Needs
Talanow, R.1,2 1. The Cleveland Clinic, Cleveland, OH; 2. EduRad, Cleveland Heights, OH

E151. * Correlation of Imaging Findings of the Spine with Clinical Syndromes via an Innovative, Interactive 3D Computer Application
Sher, A.; Vogelius, E.; Robbin, M. University Hospitals, Case Medical Center, Cleveland, OH

E152. * Physician Documentation of Fluoroscopy Time in VCUG Reports Correlates with Lower Fluoroscopy Times
Sammer, M.1,2; Parisi, M.1,2; Chapman, T.1 1. Seattle Children’s, Seattle, WA; 2. University of Washington, Seattle, WA

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E153. The Triple Rule-Out CTA: Parameters, Protocols and Case Review
Aquino, M.; Nandalur, K. William Beaumont, Royal Oak, MI

E154. Multimodality Imaging of Erdheim-Chester Disease
Nguyen, B. Mayo Clinic, Scottsdale, AZ

E155.* Opening Pandora’s Box: Hope Remains for the Multidetector CT (MDCT) Evaluation of Small Bowel and Mesentery Injuries in Blunt Abdominal Trauma
Wells, S.; Chong, S.; Knoepp, U.; Mazza, M.; Al-Hawary, M. Michigan, Ann Arbor, MI

Ptak, T.; Milne, L.; O’Brien, M. Massachusetts General Hospital, Needham, MA

E157. WITHDRAWN

E158.* Use of CT Pulmonary Angiography in an Emergency Setting: Audit in the Townsville Hospital
Wilfred N.1; Banks C.2; Lamont A.2 1. Princess Alexandra Hospital, Brisbane, Australia; 2. Townsville Hospital, Townsville, Australia

E159.* “Taking My Breathe Away”: MDCT in the Evaluation of Diaphragmatic Injuries
Garcia, L.; Nieves, D.; Gomez, A.; Sepulveda, J.; Rivera, G.; Lopez, Y.; Rivera, W. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E160.* Hydatid Disease From Head To Toe MDCT Evaluation of Imaging Findings in Hydatid Disease—Both Uncomplicated and Complicated Cases
Kumar, V.; Pandhi, S.; Vaishnav, K.; Goswami, K.; Parida, S. Gujarat Cancer and Research Institute, Ahmedabad Gujarat, India

E161.* “Putting Together the Jigsaw Puzzle”: The Role of MDCT in the Characterization of Maxillary Bone Fractures
Nieves, D.; Garcia, L.; Vidal, J. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E162.* “Broken Jaw”: The Role of MDCT in the Evaluation of Mandibular Bone Fractures
Peguero, L.; Pabon, A.; Perez, V.; Santacana, G.; Vidal, J.; Garcia, L. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E163. Imaging of Non-Traumatic Abdominal Pain in the Emergency Department: Differential Diagnosis and Pictorial Essay of Usual and Unusual Causes
França, M.; Certo, M.; Ramos, A.; Pires, J.; Varzim, P. Centro Hospitalar do Porto, Maia, Portugal

E164.* All Right Lower Quadrant Pain Is Not Appendicitis
Aggarwal, A.; Golan, S.; Rausch, D.; Simpson, W. Mount Sinai Medical Center, New York, NY

E165.* Blunt Abdominothoracic Trauma—Case-Based Review
Chaudhary, H.; Calleros, J. Texas Tech University Health Science Center, El Paso, TX

E166.* Extraluminal Gas in the Abdomen: Where is it? What Does it Mean?
França, M.; Certo, M.; Santos, P.; Maia, R.; Varzim, P. Centro Hospitalar do Porto, Maia, Portugal

E167.* Imaging of Impacted Fish Bones in the Aerodigestive Tract: Pitfalls and Complications
Win, T.; Poh, A.; Chan. E. Changi General Hospital, Singapore, Singapore

E168.* “Leaky Abdomen”: Role of MDCT in the Evaluation of Traumatic Bowel and Mesenteric Injuries
Peguero, L.; Garcia, L.; Conde, Z.; Font, S.; Gomez, A.; Colon, E.; Ballester, G. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E169.* Air Bubbles: Where and Why?
Baleato Gonzalez S.1; Garcia Figueiras R.2; Vilanova J.3; Barral Juez I.4; Vilalba Martin C.2; Tardagula F.1 1. POVISA, Vigo, Spain; 2. CHUS, Santiago De Compostela, Spain; 3. Clinica Girona-Hospital santa caterina, Girona, Spain; 4. CHOP, Pontevedra, Spain

E170.* Imaging Patterns of Acute Intracranial Hemorrhage
Goud, A.; Goud, A.; Nguyen, B.1 1. VA Boston, Boston, MA; 2. University of California Irvine, Orange, CA

E171. Cervical Spine On-Call: What Every Resident Needs to Know
Ali, S.; Awan, O. University of Maryland Medical Center, Pikesville, MD

E172.* Anatomic Positioning System (APS): Accuracy of Localization of Mock Blast Fragments on CT in Three Dimensions
Shogan, P.1; Fischer, T.2; Long J.2; Frew M.1; Bunger R.2; Folio L.2; Provenzale, J.3 1. Walter Reed Army Medical Center, Washington, DC; 2. Uniformed Services University, Bethesda, MD; 3. Duke University Medical Center, Durham, NC

E173.* Multimodality Pictorial Review Of Post-Transplant Lymphoproliferative Disorder: Spectrum Of Imaging Appearances from Head-to-Toe
Shah, C.; Bhanushali, A.; Newhouse, J.; Dsouza, B.; Ruzal-Shapiro, C. NY Presbyterian Hospital, Columbia, New York, NY

E174.* Imaging of Lymphoma Cousins: Likes and Mimics
Hall, M.; Jagannathan, J.; Ramayya, N.; Shingare, A.; Van den Abbeele, A. Dana-Farber Cancer Institute, Boston, MA

E175. Overview of The Various Existing Radiological Tumor Assessment Criteria for Evaluating Tumor Response
Oliveira, G.; Bhargava, P.; Dubinsky, T.; Harisinghani, M.1 1. University of Washington, Seattle, WA; 2. Massachusetts General Hospital, Boston, MA

E176. How Your Clinical Report Answers the Hemato Oncologists Questions in Lymphoma Patients?
Oliveira, G.; Dubinsky, T.; Gopal, A. University of Washington, Seattle, WA

* offers CME credit
E177. What Has Changed Between RECIST and RECIST 1.1?
Oliveira, G.1; Bhargava, P.1; Dubinsky, T.1; Harisinghani, M.1 1. University of Washington, Seattle, WA; 2. Massachusetts General Hospital, Boston, MA

E178. Mesenteric Injury in Blunt Trauma: What the Trauma Surgeon Needs to Know
Choudhary, S.; Philips, P.; Sunnapwar, A.; Patel, A. University of Texas Health Science Center, San Antonio, TX

E179. Using Central Lines and Catheters for Power Injectors During CT Scans: What You Need to Know
Laxpati, M.; Jung, A.; Palmer, S.; Reddy, S.; Cheng, P.; Duddalwar, V. University of Southern California, Los Angeles, CA

E180. RECIST 1.1: What is Different from RECIST 1.0?
Braschi, M.1; Ramaiya, N.2; Urban, T.1; Kurra, V.1; Harris, G.1 1. Massachusetts General Hospital, Watertown, MA; 2. Dana Farber Cancer Institute, Boston, MA

E181. Imaging Features of Solitary Fibrous Tumors
Ginat, D. University of Rochester, Rochester, NY

E182. The Evolving Face of 3D-Imaging as a Biomarker: Clinical Significance and Evidence-Based Support

E183. Lawsuits and Lines: Improving Recognition and Removing Retained Vascular Devices
Peters, G.; Whang, G.; Mogel, G.; Park, J.; Palmer, S. Keck School of Medicine, University of Southern California, Los Angeles, CA

E184. Ultrasound Imaging: A Dynamic Training Modality
Yilmaz, Z.; Klein, K.; Pandya, A.; Patterson, S. University of Michigan, Ann Arbor, MI

E185. Developing an Automated Process to Notify the Emergency Department of Significant Changes in On-Call Resident Interpretrations Requiring Non-Urgent Follow-up
Itri, J.; Redfern, R.; Boedec, C.; Mercer, E.; Scanlon, M.; Datner, E. University of Pennsylvania Hospital, Philadelphia, PA

E186. ADAPTIVE STATISTICAL ITERATIVE RECONSTRUCTION (ASIR) OF BODY CT DATA REDUCES DOSE WHILE MAINTAINING IMAGE QUALITY
Kaplan, J.; Simpson, W.; Lee, K.; Tanenbaum, L. Mount Sinai Medical Center, New York, NY

E187. The Inguinal Region: Hernias and Beyond
O’Brien, J.; Grebenyuk, J.; Forster, B.; Andrews, G. UBC Hospital, Vancouver, Canada

E188. CT Artifacts in the Obese Patient
Gunn, M.; Kanal, K.; Stewart, B. University of Washington, Seattle, WA

E189. The Radiological Evaluation of “New Age Artifacts”
Gerard, P.; Lefkovitz, Z.; Nichols, R.; Chang, P. Westchester Medical Center, New York, NY

E190. Malpositioned Tubes and Lines in the Chest, Abdomen, and Pelvis: A Pictorial Review
Ginat, D.; Bashay, V.; Sidhu, R.; Wandtke, J. University of Rochester, Rochester, NY

E191. Fat Saturation Techniques: Physics and its Applications
Kaneker, S.; Sarwani, N.; Tappouni, R.; Walker, E. Penn State Milton S. Hershey Medical Center, Hershey, PA

E192. Role of Quality Improvement in Patient Satisfaction: Radiology Departmental Study
Ishak, C.; Kanth, N.; Lee, S.; Albanese, N.; Scarmato, V. Nassau University Medical Center, East Meadow, NY

E193. Infection Control in a Department of Radiology: Preparing for the Unknown!
Paul, N.; Nankoosingh, V.; Summerfield, R.; Maria, C.; Alturkistany, S.; Torres, F.; Patsios, D.; Roberts, H. University of Toronto, Toronto, Canada

Rausch, D.; Aggarwal, A.; Simpson, W. Mount Sinai Medical Center, New York, NY

E195. “Go With the Flow”: The Role of MDCT Angiography in the Evaluation of Traumatic Peripheral Vascular Injuries
Nieves, D.; Garcia, L.; Badillo, K.; Vidal, J.; Gomez, A.; Rodriguez Adorno, D. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E196. Imaging of Air: How Did That Air Get There?
Kaushik, C.; Pandey, T.; Jumper, Z.; Viswamitra, S.; Jambhekar, K. University of Arkansas, Little Rock, AR

E197. CT of Acute Perianal Abscess and Infected Fistulae: A Pictorial Essay

E198. CT of the Sktn
Katz, D.; Ganson, G.; Klein, M.; Mazzie, J. Winthrop-University Hospital, Mineola, NY

E199. Adaptive Statistical Iterative Reconstruction (ASIR) of Body CT Data Reduces Dose While Maintaining Image Quality
Kaplan, J.; Simpson, W.; Lee, K.; Tanenbaum, L. Mount Sinai Medical Center, New York, NY

E200. Spectrum of Cranio-cervical Junction Injuries
Punjwani, N.; Cheekatla, S. University of Texas at Houston, Sugar Land, TX

E201. Thoracic Spine Trauma: MDCT and MRI Correlation
Padoa, S.; Garcia, L.; Badillo, K.; Vidal, J.; Gomez, A. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E202. Taking a Chance: MDCT and MRI Correlation of Lumbar Spine Fractures
Garcia, L.; Badillo, K.; Vidal, J.; Gomez, A. University of Puerto Rico, Medical Sciences Campus, San Juan, PR
Ptak, T.; O'Brien, M. Massachusetts General Hospital, Needham, MA

E204. Emphysematous Infections of the Abdomen and Pelvis: A Comprehensive Review
Parizi, M.; Ojili, V.; Nagar, A.; Chintapalli, K. 1. University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, TX; 2. Ohio State University Medical Center, Columbus, OH

E205. Imaging the Pregnant Woman for Non-Obstetric Reasons: What You Need to Know

Gordon, S.; Lobko, I.; Hoffman, J. Long Island Jewish Medical Center, Astoria, NY

E207. Clinical Mimickers of Lower Extremity Deep Venous Thrombosis: Ultrasound Diagnosis
Gunabushanam, G.; Krishnamoorthy, S.; Scourt, L. Yale University School of Medicine, New Haven, CT

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E208. The Atypical Appendix
Javors, B.1; Morehouse, H.1; Merunka, V.1; Reddy, B.1; Katz, D.1 1. BronxCare Health Network, Bronx, NY; 2. Beth Israel Medical Center, New York, NY; 3. Winthrop-University Hospital, Mineola, NY

E209. “Rule out Appendicitis”: To Be or Not to Be
Virmani, V.1; Papadatos, D.1; Fasih, N.1; Kielar, A.1; Sethi, V.1 1. University of Ottawa, Ottawa, Canada; 2. Christian Medical College, Ludhiana, Canada

E210. Cholangiocarcinoma and Its Mimics
Torres, F.1; Peng, L.1; Hsu, J.1; Menias, C.2 1. Kaiser Permanente LAMC, Los Angeles, CA; 2. Mallinckrodt Institute of Radiology, St. Louis, MO

E211. “Who is Choking Me?” Billiary Strictures—A Pictorial Review
Sonavane, S.; Kantawala, K.; Menias, C. Mallinckrodt Institute of Radiology, St. Louis, MO

E212. Uncommon Biliary Pathologies—A Multi-Modality Pictorial Essay
Sykes, J.; Bhatt, S.; Sidhu, R.; Dogra, V. University of Rochester, Rochester, NY

E213. Skeletons in the Corner: A Systematic Approach to the Evaluation of Body MRI in Order to Routinely Identify Bone, Soft Tissue and Spinal Abnormalities and Other Subtle Findings at the Edge of the Field of View
Adhya, S.; Ambroster, S.; White, E.; Wilcox, A.; Palmer, S. Keck School of Medicine, University of Southern California, Los Angeles, CA

E214. MDCT Evaluation of Acute Mesenteric Ischemia: An ABC’s Approach
Schieda, N.; Papadatos, D.; Shabana, W. The University of Ottawa, The Ottawa Hospital, Ottawa, Canada

E215. Going, Going, Gone: Bowel Ischemia from Compromise to Necrosis
Masrutosqu, A.; Lynskys, G.; Szilagyi, S. Beth Israel Medical Center, New York, NY

E216. Diagnostic Performance of CT in Detection of Intestinal Ischemia Associated with Small Bowel Obstruction by Using Maximal Attenuation of Region-of-Interest
Kwangseon, M. Hallym Sacred University, Anyang, Korea

E217. Oral Contrast Administration in Abdomen and Pelvis CT: Is it Essential?
Verma, R.; Bayanati, H.; Schwarz, B.; Shabana, W. The Ottawa Hospital, Ottawa, Canada

E218. MR Appearance of Normal Bowel and Bowel Pathology
Lee, H.; Kissin, I.; Prince, M.1,2 1. Columbia University College of Physicians and Surgeons, New York, NY; 2. Weill Medical College of Cornell University, New York, NY

E219. Evaluation of Focal Small Bowel Pathologies with CT Entrography, Where Do We Stand?
Dytkstra, J.; Sokhandon, F.; Shirkhoda, A. William Beaumont Hospital, Bloomfield Hills, MI

E220. Significant Extra Colonic Findings on CT Colonography: Incidence and Outcome of Patients
Alrujaib, M.; Ciarallo, A.; Giovanni, A.; Stein, I. McGill University, Montreal, Canada

E221. Is the Impact of Family History on CT Colonography Results and Optical Colonoscopy Referral Rates Overstated?
Hinshaw, L.; Kim, D.; Kehoe, P.; Pickhardt, P. University of Wisconsin School of Medicine and Public Health, Madison, WI

E222. Accuracy and Time-Efficiency of 3D CT Colonography of Pig Phantoms: Conventional 3D Versus New Panoramic 3D Interpretation
Choi, J.; Kim, S.; Choi, B.; Han, J.; Kim, S.; Park, H.; Lee, J.; Lee, J. 1. National Cancer Center, Goyang-si, South Korea; 2. Seoul National University Hospital, Seoul, Korea

E223. Contrast Enemas: High-Yield Techniques and Top Diagnoses
Coquia, S.; Bau, J.; Peterson, C.; Hartman, D. Penn State Hershey Medical Center, Hershey, PA

E224. Intussusception From the Cradle to the Grave
Kim, Y.; Cho, O.; Jeong, W.; Kim, E.; Lee, S. 1. Hanyang University Kuri Hospital, Kuri city, Kyunggido, Korea; 2. Hanyang University Hospital, Seoul, Korea; 3. Korea University Guro Hospital, Seoul, Korea

E225. 3T Dynamic Contrast MRI in a Phase II Trial of a Multi-targeted Receptor Tyrosine Kinase Inhibitor in Relapsed and Refractory Gastroesophageal Cancers
Sammet, S.; Clark, D.; Bhinder, A.; Tahiri, S.; Bekaii-Saab, T.; Knopp, M. Ohio State University, Columbus, OH

E226. Gallbladder Carcinoma: Spectrum of Imaging Findings and Mimics
Volpacchio, M.1,2; Santamarina, M.3; Lopez, Mora J.1; Franco, V.1; Quipildor, M.2; Lell, A.2; Montes, F.1 1. Centro de Diagnostico Dr Enrique Rossi, Buenos Aires, Argentina; 2. Hospital de Clinicas Jose de San Martin, Buenos Aires, Argentina; 3. Hospital Almirante Nef, Viña del Mar, Chile

E227. The Dropped Gallstone, the Protean Imaging Manifestations of an Overlooked Entity
Wood, C.; Nikolaidis, P.; Taffel, M. Northwestern University, Chicago, IL

E228. Differentiating Between Chronic and Acute Cholecystitis by Ultrasound
Danaie, S.; Nicholas, K.; Hill, M.; Zeman, R. George Washington University Medical Center, Washington, DC

E229. Intestinal Lipomatosis: A Multimodality Imaging Review of Lipomatous Polyposis and Epiploic Lipomatosis with Radiologic-Pathological Correlation
Gould, C.1; Latini, G.2,3; Lewis, R.1,2; Tan, J.4 1. National Naval Medical Center, Bethesda, MD; 2. Armed Forces Institute of Pathology, Washington, DC; 3. Uniformed Services University of the Health Sciences, Bethesda, MD; 4. 48th Medical Group, RAF Lakenheath, United Kingdom

E230. WIThdrawn
* offers CME credit
E231. MDCT Features of Gastroduodenal Cystic Lesions: Endoscopic and Pathologic Correlation
Kim, H.; Lim, J.; Lee, D.; Ko, Y. Kyung Hee University Medical Center, Seoul, Korea

E232. Gastric Emphysema: Causes, Clinical Implications, and CT Findings
Johnson, P.; Horton, K.; Fishman, E.; Scott, W. Johns Hopkins Hospital, Baltimore, MD

E233. Primary Colorectal Lymphomas: What Radiologist Should Know
Sunnapwar A.1; Katre, R.2; Choudhary, S.3; Prasad, S.4; Nagar, A.5 1. UTHSCSA, San Antonio, TX; 2. OSU, Columbus, OH

E234. Recognition of Chemotherapy Related Changes in the Abdomen and Pelvis: Imaging and Perspectives!
Lall, C.1; Lamba, R.2; Trilikis, G.3; Helmy, M.4; Saremi, F.5; Cohen, A.6 1. Indiana University School of Medicine, Indianapolis, IN; 2. University of California, Davis, Davis, CA; 3. University of California, Irvine, Orange, CA; 4. University of Cincinnati Medical Center, Cincinnati, OH

E235. Hypervascular Gastric Masses: MDCT Protocol Optimization, Postprocessing Techniques, and Interpretative Pitfalls
Johnson, P.; Horton, K.; Fishman, E. Johns Hopkins Hospital, Baltimore, MD

E236. Pictorial Review of Gastric Cancer with Rad-Path Correlation
Lance, V.; Lee, E.; Kee, S.; Loh, C. UCLA Medical Center, Los Angeles, CA

E237. Hypotonic CT Duodenography: A Pictorial Assay
Bayanati, H.; Mojtabaie, P.; Tao, H. University of Ottawa, Ottawa, Canada

E238. Imaging of Abdominal Inflammatory Myofibroblastic Tumor with Pathologic Correlation
Reiter, M.1; Lewis, R.2; Lattin, G.3 1. Armed Forces Institute of Pathology, Washington, DC; 2. National Naval Medical Center, Bethesda, MD

E239. Laparoscopic Port Complications: Cruising Issues; An Imaging Perspective
Lall, C.1; Verma, S.2; Lamba, R.3; Saremi, F.4; Helmy, M.5; Sandrasegaran, K.6; Trilikis, G.7; Wolbrink, D.1 1. Indiana University School of Medicine, Indianapolis, IN; 2. University of California, Davis, Davis, CA; 3. University of California, Irvine, Orange, CA; 4. University of California, Davis, Davis, CA; 5. University of California, Irvine, Orange, CA

E240. Genetic Conditions Associated with Gastrointestinal Neoplasms: A Review of the Spectrum of Findings on CT
Earhart, C.; Ricker, C.; Tang, S.; Abboud, G.; El-Khoueiry, A.; Iqbal, S.; Lenz, H.; Shirk, J. University of Southern California, Keck School of Medicine, Los Angeles, CA

E241. Common Radiographic Signs in Abdominal Plain Film Imaging
Menon, S.1; Loree, R.2; Ortiz-Romero, S.3; Szilagy, S.4; Yim, A.5; Fraser, D.6; Cooke, K.7 1. Beth Israel Medical Center, New York, NY; 2. St. Luke’s Roosevelt Hospital, New York, NY

Walker, D.1; Lattin, G.2; Jesinger, R.3; Tubay, M.4; Lewis, R.5; Dalal, K.6; Scherrer, M.7 1. David Grant USAF Medical Center, Travis AFB, CA; 2. Armed Forces Institute of Pathology, Washington, DC; 3. Uniformed Services University of the Health Sciences, Bethesda, MD; 4. University of Utah Health Care, Salt Lake City, UT

E243. Twists and Turns in the Abdomen: A Pictorial Review of Solid Organ, Hollow Viscus, and Abdominal Fat Torsions with Pathologic Correlation
Timpone, V.1; Lattin, G.2; Jesinger, R.3; Lewis, R.4; Tubay, M.5; Azuar, K.6; DeMartini, S.7; Scherrer, M.8 1. David Grant USAF Medical Center, Travis AFB, CA; 2. Armed Forces Institute of Pathology, Washington, DC; 3. Uniformed Services University of the Health Sciences, Bethesda, MD; 4. University of Utah Health Care, Salt Lake City, UT

E244. Guide to Hollow Viscera Surgical Procedures
Roberts, A.; Fanous, R.; Jaffer, N.; McLeod, R.; Chawla, T.; Au, F.; Ghai, S. University of Toronto, Toronto, Canada

E245. WITHDRAWN

E246. Three Phase Swallow Study: Description of Normal Anatomy and Spectrum of Pathology Using Video Format
Wasnik, A.; Al-hawary, M.; Kaza, R.; Liu, P.; Cohan, R.; Sonda, P. University of Michigan, Ann Arbor, MI

Bau, J.; Peterson, C.; Hal, H. Penn State Hershey Medical Center, Hershey, PA

E248. Recurrence Patterns of Gastrointestinal Tumors
Oliphant, M. Wake Forest Patterns University, Winston Salem, NC

E249. Imaging of Metastatic Neuroendocrine Tumors (NET)
Shore, K.; Jagannathan, J.; Ramaiya, N.; Shinagare, A.; Van den Abbeele, A. Dana Farber Cancer Institute, Boston, MA

E250. The Role of PET and Combination PET/CT in the Evaluation of Patients with Inflammatory Bowel Disease
Halpenny, D.1; Burke, J.2; O’Connell, M.3 1. Adelaide and Meath Hospitals Incorporating the National Children’s Hospital, Dublin 24, Ireland; 2. St. Colmille’s Hospital, Loughlinstown, Dublin, Ireland; 3. Mater Hospital, Dublin, Ireland

Hartman, D.; Dulka, S.; Showalter, M.; Swehla, B. MS Hershey Medical Center, Hershey, PA

E252. Potentiality of MR in the Mesorectal Fascia Assessment
Saba, L.; Fantola, G.; Casula, F.; Mallerini, G. Azienda Ospedaliero Universitaria, Cagliari Sardegna, Italy
E253. CT Enterography in Patients with Crohn Disease: Pearls and Pitfalls
Torrao, H.; Costa, C. Hospital de Braga, Braga, Portugal

E254. Evaluation of Biphase Sixty-four Row MDCT with Mesenteric CT Angiography in the Detection of Acute Mesenteric Ischemia
Vivian, M.; Kirkpatrick, I.; Kroeker, M.; Henderson, B. University of Manitoba, Winnipeg, Canada

E255* Spectrum of Malignant Hepatic Neoplasms in Pediatric Population—MDCT Evaluation
Kumar, V.; Pandhi, S.; Vaishnav, K.; Goswami, K.; Sethi, S. Gujarat Cancer and Research Institute, Ahmedabad Gujarat, India

E256* Unusual Primary Hepatic Masses
Madrazo, B.; Casillas, J.; Dreizin, D.; Amendola, M.; Akhter, N.; Castillo, R. 1. University of Miami Miller School of Medicine, Miami, FL; 2. No Institutional Affiliation

E257. Usefulness of Liver Perfusion CT in the Evaluation of Portal Hypertension: Comparison with Hepatic Venous Pressure Gradient and Wedge Hepatic Venous Pressure Measured by Hepatic Vein Catheterization
Chung, D. St. Mary’s Hospital, Catholic University of Korea, Seoul, South Korea

E258. Characterization of Benign and Malignant Hepatic Lesions Using Gadoxetate Disodium Enhanced MRI
Haddad, F.; Hill, M.; Zeman, R. George Washington University Hospital, Washington, DC

E259. Save the Liver Transplant: A Radiology Resident’s On-Call Guide
Rausch, D.; Simpson, W. The Mount Sinai Medical Center, New York, NY

E260. Interactive Flash-Based 3D Tutorial of the Liver Segmental and Vascular Anatomy
Javan, R.; Duszk, R. Baptist Memorial Hospital, Memphis, TN

E261. Acute Hepatic Failure: Its Varied Imaging Appearance with Pathological Correlation and Comparison to Chronic Liver Failure
Romero, M.; Fong, T.; Palmer, S.; Ihde, L.; Kosco, A.; Lin, L. 1. Keck School of Medicine, University of Southern California, Los Angeles, CA; 2. Kaiser Permanente, Los Angeles Medical Center, Los Angeles, CA

E262. Early Experiences Utilizing Gadoxetate Disodium in the Evaluation of Hepatic and Biliary Lesions
Tingle, E.; Glastad, K. Baylor University Medical Center, Dallas, TX

E263* Liver Transplant and Beyond: MR Imaging Findings
Khatri, G.; Miller, F. Northwestern University Feinberg School of Medicine, Chicago, IL

E264. Introduction to the One and Only Hepatocyte Specific, FDA Approved MRI Contrast Agent—Gadoxetate Disodium
Jacob, R.; Chimpiri, A.; Keller, R. Oklahoma University Health Sciences Center, Oklahoma City, OK

E265* Uncommon Benign Liver Tumors and Pseudotumors: Cross-Sectional Imaging Spectrum
Shahbogue, A.; Zaheer, A.; Katabathina, V.; Sandrasegaran, K.; Takahashi, N.; Prasad, S. 1. University of Texas Health Science Center at San Antonio, San Antonio, TX; 2. The Johns Hopkins Hospital, Baltimore, MD; 3. Indiana Institute for Biomedical Imaging Sciences, Indianapolis, IN; 4. Mayo Clinic, Rochester, MN

E265* Uncommon Benign Liver Tumors and Pseudotumors: Cross-Sectional Imaging Spectrum
Shahbogue, A.; Zaheer, A.; Katabathina, V.; Sandrasegaran, K.; Takahashi, N.; Prasad, S. 1. University of Texas Health Science Center at San Antonio, San Antonio, TX; 2. The Johns Hopkins Hospital, Baltimore, MD; 3. Indiana Institute for Biomedical Imaging Sciences, Indianapolis, IN; 4. Mayo Clinic, Rochester, MN

E266* Gadopentate Dimeglumine and Gadoxetate Disodium: Delayed Imaging in Liver MR

E267. Hepatocyte-Specific MR Contrast Agent: Improved Lesion Characterization with Gd-EOB-DTPA
Purysko, A.; Remer, E.; Veniero, J. Cleveland Clinic Foundation, Cleveland, OH

E268. Beyond ADC: Diffusion-Weighted MR Imaging of Small Liver Lesions
Johnson, P.; Jurasic, M.; Bridges, M. Mayo Clinic, Jacksonville, FL

E269* The Many Faces of Focal Nodular Hyperplasia with Gd-EOB-DTPA at 3T MRI
Sosnowski, R.; Mwangi, I.; Sirlin, C. UCSF, San Diego, CA

E270* A Pictorial Review of Fat-Containing Liver Abnormalities
Heaslip, I.; Hegarty, C.; Gibney, R.; Malone, D.; Skehan, S.; Heffernan, E. St. Vincent’s University Hospital, Dublin 4, Ireland

Kobayashi, S.; Matsu, G.; Gabata, T.; Kodai, W.; Minami, T.; Ryu, Y.; Kozaka, K. Kanazawa University, Kanazawa, Japan

E272. In-vivo and Ex-vivo MR Imaging of Excised Human Livers and Histological Correlation on Treated Hepatocellular Carcinomas
Yoon, J.; Mwangi, I.; Echephod, E.; Claude, S.; Peterson, M. 1. University of California San Diego, UCSD Medical Center, Hillcrest, San Diego, CA; 2. Busan Paik Hospital, Inje University College of Medicine, Busan, Korea

E273. Imaging Characteristics of Gadoxetate Disodium Injection in Human Liver: How much Delayed Imaging is Sufficient?
Chow, D.; Margolis, D.; Schwere, R.; Lu, D.; Raman, S. University of California, Los Angeles, Los Angeles, CA

E274. Association of Hepatic Hemangiomatosis with Giant Hemangioma: Prevalence and Clinical Relevance

E275. Unusual Presentations of Hepatocellular Carcinoma—A Review

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E276. Parasitic Disease of the Liver: A Review of the Spectrum of Disease and Appearance
Ihde, L.1; Earhart, C.1; Abboud, G.1; Sadeghi, A.1; Buxbaum, J.1; Grant, E.1; Duddalwar, V.2; Klipfel, N.1 1. University of Southern California, Keck School of Medicine, Los Angeles, CA; 2. USC Norris Cancer Hospital, Los Angeles, CA

E277. The Role of Ultrasound Fusion Imaging in Abdominal Interventions
Tchelepi, H. Wake Forest University School of Medicine, Winston Salem, NC

E278. Intraoperative US of the Liver in Primary and Secondary Malignant Liver Neoplasms: Comparison to State-of-the-Art Preoperative Imaging
Wagnetz, U.1; Wei, A.2; Massey, C.3; Atri, M.1; Metser, U.1 1. Radiology, Toronto, Canada; 2. Surgery, Toronto, Canada; 3. Biostatistician, Toronto, Canada

E279. Portacaval Lymphadenopathy: Should it be a Cause for Concern in the Absence of Visible Hepatobiliary, Pancreatic and Gastric Pathology?
Iyer, V.; Borczuk, D.; Hahn, P.; Mueller, P.; Harisinghani, M. Massachusetts General Hospital, Boston, MA

E280. Cisterna Chyli in Patients with Malignancy—Influence of Cardiovascular Disease on the Prevalence and Size of the Cisterna Feuerlein, S.; Stolz, J.; Muche, R.; Brambs, H.; Pauls, S. University of Ulm, Ulm, Germany

E281. Intraabdominal Fibromatosis: Imaging Spectrum with Pathologic Correlation
Ritchie, B.1; Lewis, R.2; Lattin, G.1 1. Armed Forces Institute of Pathology, Bethesda, MD; 2. National Naval Medical Center, Bethesda, MD

E282. The Rocky Mesentery: Imaging Spectrum of Calcified Mesenteric Disorders
Shanbhogue, A.1; Ojili, V.1; Shanbhogue, D.1; Nagar, A.2; Fasih, N.3; Prasad, S.1 1. University of Texas Health Science Center at San Antonio, San Antonio, TX; 2. Ohio State University Medical Center, Columbus, OH; 3. The Ottawa Hospital, Ottawa, Canada

E283. CT Manifestations of Abdominal Tuberculosis
Lee, W.1; Duddalwar, V.2; Stella, D.3; Dagia, C.4; Hennessy, O.1; Chang, S.3 1. St. Vincent’s Hospital, Caulfield North VIC, Australia; 2. USC/Norris Comprehensive Cancer Center, Los Angeles, CA; 3. Royal Melbourne Hospital, Parkville, Australia; 4. Royal Children’s Hospital, Parkville, Australia; 5. Vancouver General Hospital, Vancouver, Canada

E284. Extranodal Abdominopelvic Lymphoma: A Grand Tour of Lymphoma of the Solid Organs
Panko, J.1; Aganovich, L.1; Hughes, Cassidy F.2; Chan, M.1 1. University of California-San Diego, San Diego, CA; 2. VA San Diego Medical Center, San Diego, CA

E285. Spontaneous Hemorrhage Complicating Tumors in the Abdomen: CT Spectrum
Lamba, R.1; Sandhu, P.1; Lall, C.2 1. University of California, Davis, Sacramento, CA; 2. Indiana University, Indianapolis, IN

E286. Extra-Adrenal Myelolipoma: A Series of 28 Cases from the AFIP
Reaven, R.1; Manning, M.1; Craig, W.2; Woodward, P.3 1. University of Maryland, Baltimore, MD; 2. AFIP, Washington, DC; 3. University of Utah, Salt Lake City, UT

E287. Hepatobiliary and Pancreatic MRI: Specific Questions a Hepatobiliary Surgeon Will Ask a Radiologist
Sebastian, S.1; Muchantef, K.2; Cornfeld, D.3; Salem, R.2; Krishnamoorthy, S.1 1. University of Mississippi Medical Center, Jackson, MS; 2. Yale University, New Haven, CT

E288. Carcinoma of Unknown Primary (CUP): A Need for a Practical Diagnostic Algorithm
Chintapalli, K.; Lalwani, N.; Prasad, S. UTHSCSA, San Antonio, TX

E289. Comprehensive Analysis of Interpretive Errors in Abdominal Imaging and the Lessons that Can be Learned
Brinkman, M.; Pozniak, M.; Hinshaw, L. University of Wisconsin School of Medicine and Public Health, Madison, WI

E290. Solid Pancreatic Neoplasms and Pseudotumors: Cross-Sectional Imaging Spectrum of the ‘Unusual Suspects’
Ojili, V.; Prad, N.1; Nagar, A.2; Prasad, S.1; Chintapalli, K.1 1. University of Texas Health Science Center at San Antonio, San Antonio, TX; 2. Ohio State University Medical Center, Columbus, OH

E291. Imaging of Acute and Chronic Pancreatitis and its Complications
Goud, N.; Goud, A.; Malgura, N.; Jati, A. Boston VA Medical Center, Boston, MA

E292. Imaging Features of Pancreatic Neuroendocrine Tumors (PNETs) and Their Metastases on Portal Venous Phase CT—Our Experience
Katkar, A.1; Souza, F.; Fennessy, F.2; Donald, D.1 1. UIHC, Iowa City, IA; 2. DFCI, Boston, MA

E293. Pancreatic Neoplasms: It’s All in the “Family”
Capps, E.; Sharma, P.; Wong, W.; Ford, K. Baylor University Medical Center, Dallas, TX

Corl, F.; Johnson, P.; Fishman, E. Johns Hopkins Hospital, Baltimore, MD

E295. Atypical Variants of Serous Cystadenomas—A Comprehensive Review of MRI Features
Patel, B.; Kalb, B.; Sarmiento, J.; Adsay, N.; Martin, D. Emory University School of Medicine, Atlanta, GA

E296. MRI of Cystic Pancreatic Lesions: Radiologic Pathologic Correlation with Management
Muchantef, K.1; Sebastian, S.2; Cornfeld, D.2; Jain, D.1; Krishnamoorthy, S.1 1. Yale University, New Haven, CT; 2. University of Mississippi Medical Center, Jackson, MS
**ELECTRONIC EXHIBITS: GI, Liver, Biliary & Pancreas**

**E297.** MRI of the Pancreas: An Electronic Atlas of Pancreatic Masses with Surgical Path Correlation  
University of Southern California, Los Angeles, CA

**E298.** Role of MRI in Evaluating Pancreatitis with Emphasis on MRCP  
Katre, R.; Sunnapwar, A.; Choudhary, S.; Shanbhogue, A.; Prasad, S.; Chintapalli, K.  
UTHSCSA, San Antonio, TX

**E299.** Secretin Enhanced MRCP: Technique, Quantification And Role In Diagnosing Pancreatic Pathologies  
Sanyal, R.; Herts, B.; Veniero, J.  
Cleveland Clinic, Cleveland, OH

**E300.** Imaging in Pancreatic Surgery: An Electronic Atlas of Postsurgical Anatomy and Common Complications  
Salibian, R.; Patel, H.; Duddalwar, V.; Garon, B.; Palmer, S.  
Keck School of Medicine-University of Southern California, Los Angeles, CA

**E301.** MRI Pattern in Autoimmune Pancreatitis Including Manganese Enhancement  
Feuerlein, S.; Juchems, M.; Brambs, H.; Ernst, A.  
University of Ulm, Ulm, Germany

**E302.** Effect of Intramuscular Butylscopolamine Administration in the Reduction of Peristaltic Artifacts in Secretin-Enhanced MR Cholangiopancreatography  
Restaino, G.; Rosa, M.; Missere, M.; Occhionero, M.; Barrassi, M.; Costanzo, S.; Sallustio, G.  
Catholic University of Sacred Heart, Campobasso, Italy

**E303.** Non-Carcinomatous Neoplasms of the Pancreas: A Pictorial Review  
Bayanati, H.; Vakili, M.; Papadatos, D.  
University of Ottawa, Ottawa, Canada

**E304.** Various Complications of Acute Pancreatitis: Understanding the MDCT Findings and Their Pathophysiology  
Kim, K.; Cho, S.; Jeon, Y.; Lee, K.  
Inha University Hospital, InCheon, Korea

**E305.** What is the Destiny of Acute Pancreatitis?: Evaluation of Prognostic Factors Determined by Initial CT Features  
Kim, J.; Cho, S.; Jeon, Y.; Lee, K.  
Inha University Hospital, Incheon, Korea

**E306.** Complications of Pancreatic Transplantation: Review of Anatomy and Selected Imaging Features  
Mehandru, S.; Nakamoto, D.; Azar, N.  
University Hospitals Case Medical Center, Cleveland Heights, OH

**E307.** A Pictorial Review of Abdominopelvic Fatty Lesions  
Deese, K.; Ferretti, J.; Zhou, D.  
Nassau University Medical Center, Wantagh, NY

**E308.** Encapsulating Peritoneal Sclerosis—Imaging Findings Behind an Underrecognized Complication of Long-term Peritoneal Dialysis  
Cameron, S.; Gayomali, C.; Hansson, J.; Finkelstein, F.; Protopapas, Z.  
Hospital of St. Raphael, New Haven, CT

**E309.** Retained Surgical Sponge (Gossypiboma): Spectrum of Imaging Findings in the Acute and Chronic Phase  
Hammer, M.; Al-Hawary, M.; Kaza, R.; Dillman, J.; Platt, J.  
University of Michigan, Ann Arbor, MI

**E310.** Evaluation of Perianal Fistulas with MRI  
Szilagyi, S.; Mastropasqua, A.; Kagen, A.  
Beth Israel Medical Center, New York, NY

**E311.** Double Contrast MRI in Pre-Operative Evaluation of Rectal Cancer: Use of Aqueous Jelly as Rectal Contrast Agent  
Fasih, N.; Shanbhogue, K.; Walsh, C.; Fraser-Hill, M.  
The Ottawa Hospital, Ottawa, Canada; UTHSCSA, San Antonio, TX

**E312.** 3 Tesla MR Locoregional Staging of Rectal Cancer: A Surgical and Radiation Oncology Perspective  
Medical College of Wisconsin, Milwaukee, WI

**E313.** MRI of the Rectum Using 3D Fast Spin-Echo Extended Echo-Train Acquisition (XETA): Preliminary Result  
Konkuk University School of Medicine, Seoul, Korea

**E314.** Primary Tumors of Retroperitoneum  
Jati, A.; Malguria, N.; Diaz, L.; Arndt, W.  
VA Boston Healthcare Systems, Chestnut Hill, MA

**E315.** Rats Do Not Develop Nephrogenic Systemic Fibrosis After Intraperitoneal Administration of Gadolinium Bound Contrast Agents  
FMHS UAEU, Al Ain, UAE; Charite, Berlin, Germany

**E316.** The Forgotten Organ; Spectrum of Focal Lesions in the Spleen: Value of Cross-Sectional Imaging in Diagnosis with Emphasis on MRI  
Fasih, N.; Walsh, C.; Kielar, A.; Ryan, J.; McInnes, M.; Macdonald, B.  
The Ottawa Hospital, Ottawa, Canada

* offers CME credit
E317. Imaging of Adrenal Masses: A Pictorial Review
Dighe, M.1; Bhargava, P.2; Oliveira, G.1; Bush, W.2; Vaidya, S.2 1. University of Washington, Seattle, WA; 2. University of Washington & VA Puget Sound Health Care System, Seattle, WA

Earhart, C.; Hawari, A.; Barra, Q.; Whang, G.; Romero, M.; Palmer, S. Keck School of Medicine, University of Southern California, San Gabriel, CA

E319. MRI of Pelvic Endometriosis: Effect of Reader’s Experience on Accuracy and Interobserver Variability
Missere, M.; Restaino, G.; Maselli, G.; Carone, V.; Ferrandina, G.; Sallustio, G. Catholic University of Sacred Heart, Campobasso, Italy

E320. Assessment of Tumoral Angiogenesis in Endometrial Carcinoma With Dynamic-Contrast-Enhanced MRI: A Prospective Study
Restaino, G.; Barrassi, M.; Missere, M.; Carbone, A.; Ferrandina, G.; Sallustio, G. Catholic University of Sacred Heart, Campobasso, Italy

E321. Developing a Normogram of the Cerebellar Vermis Utilizing 3D Ultrasound and Image Postprocessing
Guttmann, A.; Dighe, M.; Mitsumori, L.; Hardikar, S. University of Washington, Seattle, WA

E322. Nephron Sparing Surgery: Complications and Peri-Operative Pitfalls on CT and MR
Arnold, R.; Myers, D. Henry Ford Hospital, Detroit, MI

E323. Mixed Epithelial and Stromal Tumor of the Kidney (MEST): A Complex Diagnosis Made Simpler Using Radiologic-Pathologic Correlation with Special Focus on Multidetector CT with 3D Mapping
Chu, L.; Hruban, R.; Horton, K.; Fishman, E. Johns Hopkins University, Baltimore, MD

E324. Fat Containing Renal Cell Carcinoma: Spectrum of Imaging Findings and Differentiation from Fat-Containing Benign Renal Lesions
Wasnik, A.; Kaza, R.; Cohan, R.; Al-Hawary, M.; Francis, I. University of Michigan, Ann Arbor, MI

E325. Papillary Renal Cell Carcinoma: Unique Imaging Features Confirmed on 15 Pathology Proven CT Cases
Panchal, V.; Panko, J.; Aganovic, L.; Hughes Cassidy, F. 1. University of California-San Diego, San Diego, CA; 2. VA San Diego Medical Center, San Diego, CA

E326. An Atlas of Nodal Pathways of Metastatic Gynecological Cancers
Islam, T.1,2; Hahn, P.2; Lee S.2; Harisinghani, M.1,2 1. Center for Molecular Imaging Research, Boston, MA; 2. Massachusetts General Hospital, Harvard Medical School, Boston, MA

E327. Serum Creatinine Monitoring After Administrating Intravenous Contrast in Diabetics on Metformin with Normal Kidney Function
Ishak, C.; Kanth, N.; Dease, K.; DeCosta, S.; Nourallahzadeh, E.; Rai, S.; Ajamny, M.; Scarmato, V. Nassau University Medical Center, East Meadow, NY

E328. MRI of Cystic Renal Lesions in the Adult: Radiologic Pathologic Correlation
Muchantef, K.1; Sebastian, S.2; Cornfeld, D.1; Krishnamoorthy, S.1 1. Yale University, New Haven, CT; 2. University of Mississippi Medical Center, Jackson, MS

E329. Diffusion Weighted MRI in the Assessment of Tumor Response to Novel Targeted Therapies in Metastatic Renal Cell Carcinoma
Bharwani, N.; Miquel, M.; Sahdev, A.; Powles, T.; Reznik, R.; Rockall, A. Barts & The London NHS Trust, London, United Kingdom

E330. Clear Cell Renal Cell Carcinoma: Multidetector CT and MRI Appearances
Patnana, M.; Vikram, R.; Ng, C.; Sandler, C. University of Texas MD Anderson Cancer Center, Houston, TX

E331. The Fate of Small Renal Masses, Less Than 1 cm
Lang, E.1,2; Hanana, A.1; Emery, K.1; Thomas, R.2; Myers, L.1; Rudman, E.1; Jaworsky, J.1; Macchia, R.1 1. SUNY Downstate Medical Center, Brooklyn, NY; 2. Johns Hopkins Bayview Medical Center, Baltimore, MD; 3. Tulane Health Science Center, New Orleans, LA

E332. Subtype Differentiation of Small Renal Cell Carcinomas on Biphasic MDCT: Measurement of Degree and Heterogeneity of Enhancement
Cho, J.; Kim, S. Seoul National University Hospital, Seoul, Korea

E333. Imaging Findings of Renal Toxicity in Patients with Chronic Lithium Use
Karaosmanoglu, A.; Arellano, R.; Mueller, P. Massachusetts General Hospital, Boston, MA

E334. Preoperative CT Factors That May Correlate with the Degree of Renal Impairment After Partial Nephrectomy
Jeun, B.; Shih, C.; Shehordin, D.; Ng, C.; Wang, G.; Scherr, D.; Auh, Y. Weill Cornell Medical Center, New York, NY

E335. Use of Multimodality 3D Imaging to Demonstrate Complex Nodal Drainage Pathways in Common Pelvic Malignancies
Oliveira, G.1; Dubinsky, T.1; Dighe, M.1; Warren, W.1; Mitsumori, L.1; Harisinghani, M.2 1. University of Washington, Seattle, WA; 2. Massachusetts General Hospital, Boston, MA

Islam, T.1,2; Hahn, P.2; Lee S.2; Harisinghani, M.1,2 1. Center for Molecular Imaging Research, Boston, MA; 2. Massachusetts General Hospital, Harvard Medical School, Boston, MA

E337. Placenta Accreta: How to Study it by Using MR
Saba, L.; Guerriero, S.; Sulcis, R.; Ajossa, S.; Mels, G.; Mallarini, G. Azienda Ospedaliero Universitaria, Cagliari Sardegna, Italy

E338. MR Imaging of Ectopic Pregnancy: Imaging Features and Incremental Value to Ultrasound
Koroglu, M.1; Kayhan, A.1; Orin, S.1; Ernst, R.1; Yacoub, J.1; Ota, A.1 1. Suleyman Demirel University, Isparta, Turkey; 2. University of Chicago, Chicago, IL; 3. MD Anderson, Houston, TX
E339. Diagnostic Pitfall: Enhancement of Organizing Hematoma on MRI
Blumenthal, B.; Hines, J.; Friedman, B. Long Island Jewish Medical Center, New Hyde Park, NY

E340. Fetal Cardiac Anomalies—Recent Advances in Ultrasonographic Examination: A Pictorial Review with Pathological Correlation
Raijia, P.; Mak, C.; Dubinsky, T.; Dighe, M. 1. Cleveland Clinic Foundation, Cleveland, OHs; 2. University of Washington, Seattle, WA

E341. Ovarian Vein Thrombosis: CT Identification, Associated Findings, and Clinical Evaluation and Management
Luongo, J.; Saxon, R.; Yam, B.; Covarrubias, D.; Merunka, V.; Ortiz, A.; Katz, D. 1. Winthrop-University Hospital, Mineola, NY; 2. Long Island College Hospital, Brooklyn, NY; 3. Beth Israel Medical Center, New York, NY

E342. Metastatic Ovarian Neoplasms: A Case-Based Review of Imaging Findings
Bayani, H.; Grover, R.; Chaudhary, H.; Shabana, W. University of Ottawa, Ottawa, Canada

E343. Adnexal Torsion: Diagnostic Imaging Features on CT and MRI with Pathologic Correlation
Duigenan, S.; Lee, S. Oliva, E. Massachusetts General Hospital, Boston, MA

E344. Imaging Features of Ovarian Cystic Lesions with Emphasis on Differential Diagnosis
Park, S.; Lee, Y.; Song, M.; Moon, M.; Cho, H.; Lee, M. Chel General Hospital and Women’s Healthcare Center, Kwandong University College of Medicine, Seoul, Korea

E345. MR Imaging Findings to Make it Difficult to Discriminate Between Benign and Malignant Adnexal Masses

E346. Ovarian Metastasis in Endometrial Carcinoma: Incidence and Imaging Findings with CT and MR in a Referral Center for Gynaecological Oncology
Restaino, C.; Missere, M.; Occhionero, M.; Guerriero, M.; Ferrandina, G.; Sallustio, G. Catholic University of Sacred Heart, Campobasso, Italy

E347. Hemorrhagic Ovarian Cysts, Endometriomas, and Cystic Teratomas: Keys to Diagnosis and Management of These Common “Complex” Ovarian Cysts
Shah-Patel, L.; Patel, M. Mayo Clinic, Phoenix, AZ

E348. Deep Infiltrating Endometriosis: CT Imaging Evaluation
Jung, S.; Kim, Y.; Park, H.; Jeon, H. Konkuk University Medical Center, Konkuk University School of Medicine, Seoul, Korea

E349. Differential Diagnosis of Complicated or Complex Gynecologic Diseases and Gynecologic Disease Mimicking Nongynecologic Diseases in Reproductive-Aged Female Patients with Pelvic or Lower Abdominal Pain
Namkung, S.; Nam, K.; Lee, J.; Jung, H.; Hwang, I.; Hong, M.; Kim, H.; Choi, Y. Hallym University Hospital, Chuncheon, Gangwon-do, Korea

E350. Pearls and Pitfalls in MR Imaging of the Female Pelvis
Lai, L.; Malhotra, R.; Brown, M. University of California, San Diego, La Jolla, CA

E351. Cystic Lesions in Female Pelvis: Approach on MR Imaging
Gill, G.; Sidhu, R.; Bhatt, S.; Dogra, V. University of Rochester, Rochester, NY

E352. MR Imaging of Pelvic Floor Dysfunction: A Practical Diagnostic Approach
Ram, R.; Jambhekar, K.; Donepudi, S.; Shaikh, R.; Pandey, T. University of Arkansas for Medical Sciences, Little Rock, AR

E353. In the Zone: MRI of the Uterus and Cervix Using Zonal Anatomy to Identify Pathology
Jurasic, M.; Bridges, M. Mayo Clinic Jacksonville, Jacksonville, FL

E354. The MRI Appearances of Pelvic Endometriosis: A Pictorial Review with Laparoscopic Correlation
Yang, N.; Esler, S. 1. St. Michael’s Hospital, Toronto, Canada; 2. Austin Health, Melbourne, Australia

Jurasic, M.; Bridges, M. Mayo Clinic Jacksonville, Jacksonville, FL

E356. Female Infertility Assessment: The Role of MR-HSG Compared to Traditional HSG
Iorio, N.; Maciocie, A.; Matararazo, I.; Vitale, V.; David, V. AO Sant’Andrea-Sapienza Università di Roma, Rome, Italy

E357. Permanent Contraceptive Devices in the Female Pelvis on Multimodality Imaging: Confirming Correct Location and Diagnosing the Complications
Ebuoma, L.; Lee, S.; Oliva, E. Massachusetts General Hospital, Boston, MA

E358. Which Pre- and Post-Surgical MR Finding the Surgeons Want to Know When Evaluating Patients with Pelvic Floor Dysfunction?
Oliveira, G.; Cuevas, C.; Bhargava, P.; Fialkow, M.; Dubinsky, T.; Dighe, M. University of Washington, Seattle, WA

E359. The Nuts and Bolts of Nodal Staging in Primary Prostate Cancer
Islam, T.; Hahn, P.; Tabatabaei, S.; Harisinghani, M. 1. Center for Molecular Imaging Research, Boston, MA; 2. Massachusetts General Hospital, Harvard Medical School, Boston, MA

E360. MRI of the Prostate: Techniques, Applications and Limitations

E361. MRI of Treated Prostate Cancer
Vargas, H.; Wassberg, C.; Akin, O.; Hricak, H. Memorial Sloan-Kettering Cancer Center, New York, NY

E362. Expected and Unexpected Findings After Prostatectomy: 3T MRI with Surface and Endorectal Coil
Tanaka, R.; Lee, J.; Kolokythas, O.; Dighe, M.; Dubinsky, T. University of Washington, Seattle, WA

* offers CME credit
E363. A Practical Approach in Detection of Local Recurrence of Prostate Cancer in the Prostatectomy Bed: Use of Slope Images
Boonsirikamchai, P.; Jackson, E.; Kuban, D.; Kaur, H.; Hou, P.; Choi, H. The University of Texas M. D. Anderson Cancer Center, Houston, TX

E364. Comparison of a 32 Channel Coil and a 6 Channel Coil for MRI of the Prostate at 3T
Sammet, S.; Wei, W.; Reiss, B.; Liang, J.; Jia, G.; Aguila, F.; Choi, S.; Knopp, M. The Ohio State University, Columbus, OH

E365. Testicular Involvement in Lymphoma and Leukemia: Clinical and Radiological Review
Nasseri, F.; Eftekhari, F. 1. Baylor College of Medicine, Houston, TX; 2. University of Texas M. D. Anderson Cancer Center, Houston, TX

E366. A to Z of Extragonadal Germ Cell Tumors
Shinagare, A.; Jagannathan, J.; Ramaiya, N.; Shore, K.; Hall, M.; Van den Abbeele, A. Dana Farber Cancer Institute, Boston, MA

E367. Segmental Testicular Infarction
Saxon, P.; Katz, D.; Luongo, J.; Badler, R.; Ramas, C.; Tublin, M.; Dessdr, T. 1. Winthrop University Hospital, Woodbury, NY; 2. University of Pittsburgh School of Medicine, Pittsburgh, PA

E368. Imaging Features of Benign Solid Testicular Lesions
Park, S.; Lee, W.; Lee, J. 1. Cheil General Hospital and Women’s Healthcare Center, Kwandong University College of Medicine, Seoul, Korea; 2. Ulsan University Hospital, University of Ulsan, Ulsan, Korea

E369. Transitional Cell Carcinoma of the Upper Urinary Tract and its Mimics: CT Urogram with Multiplanar Reconstruction

E370. Radiological Imaging of Urinary Diversions
Sidhu, R.; Bhatt, S.; Marshall, J.; Cardin, A.; Dogra, V. University of Rochester, Rochester, NY

E371. Imaging Features of the Fat-Containing Lesions in Genitourinary System
Park, S.; Moon, M.; Kim, J.; Cho, K. 1. Cheil General Hospital and Women’s Healthcare Center, Kwandong University College of Medicine, Seoul, Korea; 2. Asan Medical Center, University of Ulsan, Seoul, Korea

E372. CT Urography of Benign and Malignant Conditions of The Upper Urinary Tract System, A Radiologic-Pathologic Correlation
Fish, E.; Sokhendron, F.; Jafari, S. William Beaumont Hospital, Bloomfield Hills, MI

E373. GU Findings in AIDS: The Changing Face of a Forgotten Pandemic
Amendola, M.; Madrazo, B.; Alfaro, K.; Casillas, J.; Ramchandani, P.; Jafari, S. 1. No Institutional Affiliation; 2. University of Miami Miller School of Medicine, Miami, FL; 3. University of Pennsylvania Medical Center, Philadelphia, PA; 4. William Beaumont Hospital, Bloomfields Hills, MI

E374. Acquired Ureteral Obstruction—Causes, Management Principles, and Imaging Pre- and Post- Intervention
Sommerville, B.; Heldmann, M.; Walker, P.; Black, G.; Sangster, G.; Elmaijan, D. Louisiana State University Health Sciences Center, Shreveport, LA

E375. Penile Pathology: Can Cross-Sectional Imaging Play a Role?


E377. MR Imaging of Cervical Carcinoma
Law, Y.; Cheah, F. Singapore General Hospital, Singapore, Singapore

E378. Uterine Myometrial Masses
Ahuja, F.; MacDonald, D. The Ottawa Hospital, Ottawa, Canada

E379. Imaging of Various Vaginal and Vulva Lesions: Focused on MR Imaging

E380. MRI Imaging of Mullerian Duct Anomalies and Correlative Findings in Other Imaging Modalities Such as Ultrasound and Hysterosalpingograms
Patel, P.; Bhatt, S.; Dogra, V.; Sidhu, R.; Reddy, S. University of Rochester Medical Center, Rochester, NY

E381. The Role of MRI in Assessing the Risk of Obstetrical and Gynecological Complications of Mullerian Duct Abnormalities
Patel, P.; Bhatt, S.; Dogra, V.; Sidhu, R.; Reddy, S. University of Rochester Medical Center, Rochester, NY

E382. State of Art Imaging Approach to Gestational Trophoblastic Disease with Special Emphasis on the Role of MRI
Khalatbari, K.; Lee, J.; Kolokythas, O.; Dighe, M.; Dubinsky, T. University of Washington, Seattle, WA

E383. Imaging Features of Atypical Fibroids
Narayanan, P.; Munneke, G. 1. Chelsea and Westminster Hospital, London, United Kingdom; 2. St. George’s Hospital, London, United Kingdom

E384. The Diffusion Weighted Properties of Uterine Fibroids
Jenkins, S.; Yang, N.; Colak, E.; Prabhudesai, V.; Kirpalani, A. St. Michael’s Hospital, Toronto, Canada

E385. Benign Uterine Smooth Muscle Tumors with Unusual Growth Patterns: Benign Metastasizing, Intravenous, Disseminated Intraperitoneal, Retroperitoneal, and Cotyledonoid Leiomyomatas
Demos, T.; Posniak, H.; Pierce, K.; Potkul, R.; Joseph, N. 1. Loyola University Medical Center, Maywood, IL; 2. University of Chicago Hospitals, Chicago, IL
E386. Hysterosalpingography: Tips for Both Performance and Interpretation
Kim, A.; Bennett, G.; Albert, R.; Giovannelli, G. NYU Langone Medical Center, Oakland Gardens, NY

E387. Multimodality Imaging Findings of IUDs and the Essure Permanent Birth Control (PBC) Device
Parghi, C.; Khati, N. The George Washington University, Washington, DC

E388. Diagnosis of Uterine Scar Dehiscence and Its Clinical Relevance

E389. Elevated Alpha Feto Protein (AFP) Level in Pregnancy—Etiology and Imaging Appearances

E390. Placental Abruption
Woytak, A. SUNY Upstate Medical University, University Hospital, East Syracuse, NY

E391. Spectrum of Subtle Sonographic Features of Uterine Adenomyosis
Pandya, A.; Caoili, E.; Wasnik, A.; Weadock, W. University of Michigan, Ann Arbor, MI

E392* Imaging the Endometrium: Pearls and Pitfalls
Sunnapwar, A.; Katre, R.; Choudhary, S. UTHSCSA, San Antonio, TX

* offers CME credit
E393. “Not Just Any Tom, Dick or Harry”: Anomalous Muscles of the Ankle, How to Recognize Them on MR Imaging and Their Clinical Relevance
Clemenshaw, M.; Bui-Mansfield, L.; O’Brien, S. Brooke Army Medical Center, San Antonio, TX

E394*. Clinical Correlation and MRI of the Ankle

E395. Cry “Ankle”: A Review of Ankle Fractures with Plain Film and MDCT Correlations
Garcia, L.; Alvarado, E.; Quinonez, G.; Rivera, R.; Badillo, K.; Vidal, J.; Gomez, A. University of Puerto Rico, Medical Sciences Campus, San Juan, PR

E396*. Ankle Fracture Classification: A Case-Based Review Focused On Laugue-Hansen Classification and Ankle Stability
Tice, J.; Walker, E.; Bernard, S. 1. Penn State Hershey Medical Center, Hummelstown, PA; 2. Uniformed Services University of the health Sciences, Bethesda, MD

E397. Well-Turned Ankles: Radiology of Ankle Arthroplasty
Khorashadi, L.; Ha, A.; Chew, F. University of Washington, Seattle, WA

E398. The Sacroiliac Joint—A Window to Arthropathy: A Multimodality Imaging Review of Sacroiliac Joint Disease with Emphasis on Differential Diagnosis
Baril, R.; Lichtenberger, J.; Southam, S.; Jesinger, R.; Tall, M. 1. David Grant Medical Center, Travis AFB, CA; 2. Wilford Hall Medical Center, Lackland AFB, TX

E399. Thumbs Up: The Radiologic Guide to the Universe of 1st CMC Joint Arthroplasty
Khorashadi, L.; Ha, A.; Chew, F. University of Washington, Seattle, WA

E400. Bone Death—Yesterday’s Specters Today!
Gharbaoui, L.; Chandrasekhar, A. The University of Texas Medical School at Houston, Houston, TX

E401. Spine MR Imaging of Spine Marrow: Age Related Changes and Pathology
Hanrahan, C.; Ellchuk, T.; Shah, L. University of Utah, Salt Lake City, UT

E402*. The Spectrum of Irradiated Bone Marrow on MRI
Bean, G.; Singh, R.; Kumar, R.; Madewell, J. MD Anderson Cancer Center, Houston, TX

E403. Bone Marrow Alteration in Patients with Type 1 Gaucher Disease on Enzyme Replacement Therapy
Lerner, D.; Simpson, W.; Hermann, G.; Balwani, M. Mount Sinai Medical Center, New York, NY

E404. Recognition, Assessment and Treatment of Non-Union Following Surgical Fixation of Fractures: Emphasis on 3D CT
Calisir, C.; Fishman, E.; Carrino, J.; Fayad, L. Johns Hopkins, Baltimore, MD

E405. CT Appearances of Bone Lesions in POEMS Syndrome
Frohnert, P.; Glazebrook, K.; Dispenzieri, A. Mayo Clinic, Rochester, MN

E406. Tumors and Tumor-Like Conditions at the Surface of Bones
Diaz, L.; Goud, A.; Roermer, F.; Arndt, W.; Guermazi, A. 1. Boston VA Health Care System, Jamaica Plain, MA; 2. Boston University Medical Center, Boston, MA

E407. The Incidental Calcified or Ossified Body: Where is it and What does it Mean?
Pai, R.; Doshi, S.; Yadavalli, S.; Koshy, P. William Beaumont Hospital, Birmingham, MI

E408. A Pictorial Review of Lesions of the Clavicle

E409. Artrography: A Video Tutorial for the Visual Learner
Perrich, K.; Sharma, V.; Richardson, M. University of Washington, Seattle, WA

E410. Nerve Sheath Tumors: Classic Imaging Findings, Differentiating Features, and Potential Pitfalls

E411. MRI of Cartilaginous Bone Tumors
Cerniglia, C.; Weiss, S. University of Massachusetts Amherst Memorial Medical Center, Worcester, MA

E412. Not Everything That’s Hot on a Bone Scan is Malignant: A Pictorial Review of Benign Causes of Increased Isotope Uptake
Moran, D.; O’Neill, A.; Heffernan, E.; Skehan, S. St. Vincent’s University Hospital, Dublin 4, Ireland

E413. Soft Tissue Calcification: Recognizing Friend from Foe

E414. Lesions of Cartilage Origin Arising from Surface of Bone—Differential Diagnosis and Pathologic Correlation
Moorthy, M.; Mooney, S.; Dieudonne, G.; Seo, G.; Monu, J. University of Rochester, Rochester, NY

E415. New and Improved: Orthopedic Hardware for the 21st Century
Petscavage, J.; Khorashadi, L.; Perrich, K.; Ha, A. Chew, F. University of Washington, Seattle, WA

E416. Malignant Tumors of the Chest Wall: A Pictorial Review of Radiological Findings
O’Regan, K.; Souza, F.; Jagannathan, J.; Ramaiya, N.; Van den Abbeele, A. 1. Dana Farber Cancer Institute, Boston, MA; 2. Dana Farber Cancer Institute, Boston, MA

Kotnis, N.; Chiavaras, M.; Harish, S. St. Joseph’s Healthcare McMaster University, Hamilton, Canada
E418. MR Arthrography of the Elbow: Current Concepts in Technique and Interpretation
Casey, D.; Johnston, S.; Serou, M.; Neitzschman, H. Tulane University Health Sciences Center, New Orleans, LA

E419. MR Imaging in the Shoulder and Elbow of Professional Baseball Players
Chun, T.; Lee, K. Eulji University, Daejeon, Korea

E420. Unhinged: The Radiology of Elbow Arthroplasty
Petsavage, J.; Ho, A.; Chew, F. University of Washington, Seattle, WA

E421. Patterns of Elbow Injury in Childhood
Walker, B.; Cesarz, M.; Monu, J.; Singh, D.; Seo, G. University of Rochester, Rochester, NY

E422. Ultrasound and MR of the Elbow—Common Pathology
Craig, J.; van Holsbeek, M.; Bouffard, J. Henry Ford Hospital, Ann Arbor, MI

E423. Imaging Features of Common and Uncommon Pediatric Skeletal Dysplasias
Jiang, J.; Boiteau, G. Allegheny General Hospital, Pittsburgh, PA

E424. Lisfranc Joint Injury: What Does Volumetric CT Add To Detection, Characterization and Treatment Planning?
Kalia, V. Johns Hopkins, Baltimore, MD

E425. Demystifying Mid-Foot Fractures: Interactive 3D CT Review
Sharma, V.; Ha, A.; Richardson, M.; Chew, F. University of Washington, Seattle, WA

E426. Tarsal Coalition Demystified: Novel MRI Findings and Newly Recognized Associations with Tarsal Coalition Complex
Hwang, J.; Platnick, J.; Lester, N.; Lempert, L.; Ibara, M. Staten Island University Hospital, Brooklyn, NY

E427. Distal Femur Resection with Modular Endoprosthetic Reconstruction: Indications and Imaging Findings
Chakarun, C.; White, E.; Menendez, L.; Brien, E.; Matcuk, G.; Patel, D.; Learch, T. University of Southern California, Los Angeles, CA; Cedars-Sinai Medical Center, Los Angeles, CA

E429. Can MRI Predict the Progression of Osteochondral Lesion in the Pediatric Knee?
Maizlin, Z.; Chandehari, H.; Algowizai, N.; Kuruvilla, M.; Missiuna, P.; Peterson, D.; Clement, J. McMaster University Medical Centre, Burlington, Canada; St. Paul's Hospital, Vancouver, Canada

E430. 3-Tesla MRI of the Intrinsic Muscles of the Hand and Wrist: A Didactic Review of Their Anatomy, Functions and Related Pathologies
Pierro-Jerome, C.; Moncayo, V.; Terk, M. Emory University School of Medicine, Atlanta, GA

Grant, M.; Patel, S.; Parasa, N.; Juriuaens, E.; Finlay, K. McMaster University, Hamilton, Canada

E432. The Effect of Rotation Angle on the Measurement of BMD in the Forearm
Han, M.; Kwon, S.; Juhng, S.; Yang, S. Chungnam National University Hospital, Daejeon, Korea; 1. Chungnam National University College of Medicine, Daejeon, Korea; 3. Wonkwang University Hospital, Iksan, Korea; 4. Eulji University Hospital, Daejeon, Korea

E433. Garden Variety 3D Femoral Neck Fractures: Garden Classification System
Yost, A.; Gridley, D. Maricopa Medical Center, Phoenix, AZ

E434. Intra-Articular Hip Injection: Pain Relief Correlated with Radiological Severity of Osteoarthritis
Alizadeh, A.; Klein, D.; Epstein, N.; Rodriguez, J. Lenox Hill Hospital, New York, NY

E435. Femoroacetabular Impingement: A Resident-Oriented Review
Duffy, P.; Cameron, S.; Zucconi, W.; Dinauer, P. Hospital of St. Raphael, New Haven, CT

Gupta, S.; Diwan, A.; Yang, J.; McLaughlin, V.; Love, C.; Vrahos, M. St. Vincent’s Catholic Medical Center, New York, NY; 2. Massachusetts General Hospital, Boston, MA

E437. Temporomandibular Joint: MRI Anatomy and Pathology
Gaillard, F.; Bhuta, S. Radiopaedia.org, Melbourne, Australia; 2. Gold Coast Hospital, Gold Coast, Australia

E438. Distal Femur Resection with Modular Endoprosthetic Reconstruction: Indications and Imaging Findings
Chakarun, C.; White, E.; Menendez, L.; Brien, E.; Matcuk, G.; Patel, D.; Learch, T. University of Southern California, Los Angeles, CA; Cedars-Sinai Medical Center, Los Angeles, CA

E439. Can MRI Predict the Progression of Osteochondral Lesion in the Pediatric Knee?
Mazlin, Z.; Chandehari, H.; Algowizai, N.; Kuruvilla, M.; Missiuna, P.; Peterson, D.; Clement, J. McMaster University Medical Centre, Burlington, Canada; 2. St. Paul’s Hospital, Vancouver, Canada

E440. Practical MR Evaluation of Knee Cartilage: Normal, Abnormal, and Why It Matters
Forney, M.; Robbins, M.; Winalski, C.; Subbas, N.; Parker, R.; Tyson, S. Cleveland Clinic Foundation, Mayfield Heights, OH

E441. AM or PL: Comprehensive Review of Functional Anatomy, MRI Appearance and Surgical Reconstruction of Normal and Injured Double Bundle ACL
Punjwani, N.; Kumaravel, M. University of Texas at Houston, Sugar Land, TX

* offers CME credit
E442. MR Imaging Atlas of Anatomic Variants of the Knee
Shah, N.1; Carter, K.2 1. Brigham and Women’s Hospital, Natick, MA; 2. Pontiac Osteopathic Hospital, Pontiac, MI

E443. Use of the V Sign in the Diagnosis of Bucket Handle Meniscal Tear of the Knee
Rao, N.1; Patel, Y.3; Chen, Q.3; Owen, J.3; Eisemon, E.3; Fogel, J.3; Beltran, J.3 1. Brigham and Women’s Hospital, Boston, MA; 2. Maimonides Medical Center, Brooklyn, NY; 3. Jamaica Hospital Medical Center, Jamaica, NY; 4. Brooklyn College of the City University of New York, Brooklyn, NY

E444. Distended Gastrocnemius Bursae: Clinical Significance and Associated Findings on MRI
Moore, A.1,2; Dahl, A.1,2; Moore, T.1,2 1. University of Nebraska Medical Center, Omaha, NE; 2. Nebraska Health Imaging, Omaha, NE

Park, J.1; Park, S.2; Jin, W.2; Ryu, K.1 1. Kyung Hee University Medical Center, Seoul, Korea; 2. East-West Neo Medical Center, College of Medicine, Kyung Hee University, Seoul, Korea

E446. Occult Fracture in Traumatic Knee with Suprapatellar Effusion on Plain Radiograph
Kanth, N.; Ishak, C.; Ferretti, J.; Cardoza, S.; Rehmani, R. Nassau University Medical Center, East Meadow, NY

E447. Bursae of the Knee: Normal Anatomy, Complications and Mimics
Negahban, A.; Matcuk, G.; White, E.; Patel, D.; Forrester, D.; Masih, S.; Zand, T.; Tsai, J. LAC+USC Medical Center, Los Angeles, CA

E448. Ultrasound of the Knee—Normal Anatomy and Common Pathology
Craig, J.; van Holsbeeck, M.; Bouffard, J. Henry Ford Hospital, Ann Arbor, MI

E449. Imaging Features of Glomus Tumors
Laubre, B.; Glazebrook, K.; Schiefer, T.; Inwards, C. Mayo Clinic, Rochester, MN

E450. Imaging Review of Synovial Disorders
Shah, N.1; Carter, K.2 1. Brigham and Women’s Hospital, Natick, MA; 2. Pontiac Osteopathic Hospital, Pontiac, MI

Cass, A.; Cheng, J.; Holakhere, N.; Katur, A.; Rana, A.; Tornetta, P. Boston Medical Center, Boston, MA

E452. Subtrochanteric Femoral Fractures in Patients on Long-term Alendronate Therapy: Imaging Features
Chan, S.1; Rosenberg, Z.2; Chan, K.2; Capiello, C.2 1. Jacobi Medical Center, New York, NY; 2. New York Presbyterian Hospital, New York, NY

E453. MR Neurography Evaluation of Peripheral Nerve Surgery
Chhabra, A.; Wang, K.; Williams, E.; Carrino, J.; Thawalt, S. Johns Hopkins University, Ellicott City, MD

E454. MR Neurography and Surgical Correlation of Tunnels
Chhabra, A.; Subhavong, T.; Williams, E.; Carrino, J.; Thawalt, S. Johns Hopkins University, Ellicott City, MD

E455. MRI of Upper Extremity Peripheral Neuropathy
Rao, D.; Rao, D.; Diaz, L. Boston VA Healthcare, Boston, MA

E456. Role of ADC Mapping in Evaluation of Leukemic Infiltration of Vertebrae with Post Chemotherapy and/or Post Radiotherapy Marrow Changes
Shah, S.; Parekh, K.; Vadhvala, H.; Rajpura, H.; Sethi, S.; Goswami, K. Gujarat Cancer & Research Institute, Ahmedabad, India

E457. Liposarcoma: Where is the Fat?
O’Regan, K.; Souza, F.; Jagannathan, J.; Ramaïya, N.; Van den Abbeele, A. Dana Farber Cancer Institute, Boston, MA

E458. Anterior Pelvic and Abdominal Sources of Groin Pain: How Anatomy Predisposes to Injury as Demonstrated by MSKUS and MR Evaluation
Brandon, C.; Jacobson, J.; Fessell, D.; Girish, G.; Morag, Y.; Jamadar, D.; Dong, Q.; Jiang, Y. University of Michigan, Ann Arbor, MI

E459. The Sacrum and Sacral Plexus: A Multimodality Overview of Pathologic Entities and Associated Neuromuscular Disorders
Apgar, J.; Wisssman, R.; Gorman, D.; Towbin, A.1 University of Cincinnati, Cincinnati, OH; 2. Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

E460. Imaging of Sacroiliac Joint Pathology
Chow, K.; Lal, M.; Modarresi, S.; Masih, S. Veterans Administration Greater Los Angeles, Los Angeles, CA

E461. Acromioclavicular Separations
Merunka, V.; Viets, R.; Lynskey, G. Beth Israel Medical Center, New York, NY

E462. Shoulder Ultrasound Tutorial: How to Perform a Scan, Review of Normal Imaging, and Abnormal Findings
Robbins, M.; Subhas, N.; Winalski, C.; Slis, J.; Forney, M.; McNulty, D.; Tyson, S. Cleveland Clinic, Mayfield Heights, OH

E463. Abnormal Sonographic Findings of Asymptomatic Shoulder Scans
Girish, G.; De Gama Lobo, I.; Boon, T.; Robertson, B.; Morag, V.; Fessell, D.; David, J.; Miller, B. University of Michigan, Ann Arbor, MI

E464. A Pictorial Review of Soft Tissue Calcifications
Khan, M.1,2; Yerk, M.2 1. University of California at San Diego, San Diego, CA; 2. Emory University, Atlanta, GA

E465. Metabolic Imaging Of Musculoskeletal Pathology with MR Spectroscopy: How Far Have We Come?
Fayad, L.; Wang, X.; Machado, A.; Barker, P. Johns Hopkins, Baltimore, MD
E466. Patterns of MRI Findings in Various Skeletal Muscle Disorders
Theodorou, D.; Theodorou, S.; Kakitsubata, Y. University of California, San Diego, CA, San Diego, CA

E467. Imaging of Deep Fibromatoses
Manzella, A.; Borba Filho, P.; Albuquerque, E.; Zelaquett, C.; Bezerra, E.; Costa, H.; Fonseca, C.; Souza, M. Hospital das Clínicas da Universidade Federal de Pernambuco, Recife, Brazil

E468. Review of Intra-Articular Lesions
Powell, A.; Song, A.; Walker, E.; Murphy, M. 1. Milton S. Hershey Medical Center, Hershey, PA; 2. Armed Forces Institute of Pathology, Washington, DC; 3. Uniformed Services University of the Health Sciences, Bethesda, MD

E469. MRI Evaluation of Tumor and Tumor-like Conditions of Skeletal Muscle
Motamedi, D.; Modarresi, S.; Chow, K. 1. Cedars-Sinai Medical Center, Santa Monica, CA; 2. West Los Angeles VA/UCLA Medical Center, Los Angeles, CA

E470. MRI of the Musculocutaneous Flap: Description of the Normal, the Suspicious and the Abnormal
Moncayo, V.; Pierre-Jerome, C.; Monson, D.; Terk, M. Emory University School of Medicine, Atlanta, GA

E471. MRI Appearance in Two Cases of Angiomatoid Fibrous Histiocytoma: An Exceedingly Rare Entity with Interesting Findings!

E472. Imaging Findings of Intravascular Papillary Endothelial Hyperplasia Presenting in Extremities: Correlation with Pathologic Findings
Lee, S.; Choo, H.; Park, Y.; Park, J. Inje University Busan Paik Hospital, Busan, South Korea

E473. Specific Imaging Features of Benign Soft Tissue Tumors and Tumor–Like Conditions: A Pictorial Review
Bridges, S.; Garcia, G.; Loredo, R.; Rahal, A.; Williams, R. The University of Texas Health Science Center at San Antonio, San Antonio, TX

E474. Imaging of Musculoskeletal Complications of Thermal Burns
Raikhlin, A.; Christakis, M. University of Toronto, Toronto, Canada

Backer, M.; Patel, B.; Larrison, M. University of Alabama at Birmingham, Birmingham, AL

E476. Preoperative Sonographic Localization of Foreign Bodies with Postoperative Pathologic Correlation
Scialdone, L.; Klein, M.; Teplitz, G.; Luchs, J. Winthrop-University Hospital, Mineola, NY

E477. Approach to the Acute Spine in The Multi-Trauma Patient: A Primer for the Body Imager
Rehmani, R.; Lev, S. 1. Nassau University Medical Center, East Meadow, NY; 2. North Shore/LIJ, Manhasset, NY

E478. Diagnostic Approach to Disc Space Destruction
Gatewood, J. University of Kansas, Kansas City, KS

E479. A Practical MRI Grading System for Lumbar Foraminal Stenosis
Lee, S.; Lee, J.; Kang, H.; Yeom, J.; Kim, Y.; Cho, O. 1. Korea University Guro Hospital, Seoul; 2. Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Korea; 3. Hanyang University College of Medicine, Kuri City, Kyunggi-do, Korea

E480. Complications of Spinal Fixation Hardware—A Pictorial Review
Katzen, J.; Chadez, T.; Brindle, K. George Washington University, Bethesda, MD

E481. Abnormalities and Variants of the Proximal and Distal Biceps Brachii Tendons
Elliott, A.; Yadavalli, S. William Beaumont Hospital, Royal Oak, MI

E482. Interactive 3D CT Models for Teaching Anatomy and Pathology in Common Hand and Wrist Trauma
Grauke, L.; Richardson, M. University of Washington, Seattle, WA

E483. The Guyon’s Canal in Perspectives: 3-Tesla MRI Review of the Normal Anatomy, the Anatomical Variations and the Guyon’s Canal Syndrome
Pierre-Jerome, C.; Moncayo, V.; Terk, M. Emory University School of Medicine, Atlanta, GA

E484. Comparison of Diagnostic Accuracy Between Dynamic Cine-Arthrography and Wrist MRI with or without Intra-Articular Contrast Injection in the Diagnosis of Intrinsic Ligament Tear or TFCC Tear, Based on Arthroscopic Findings of the Wrist
Kim, B.; Lee, G.; Park, J.; Cha, S.; Lee, K.; Hong, S.; Kang, C.; Lee, S. 1. Korea University Ansan Hospital, Korea University College of Medicine, Gyeonggi-do, Korea; 2. Korea University Guro Hospital, Korea University College of Medicine, Seoul, Korea; 3. Korea University Anam Hospital, Korea University College of Medicine, Seoul, Korea

E485. Efficacy of High Resolution CT for Detection of Early Healing in Scaphoid Fractures
Choudur, H.; Di Ianni, M.; Guram, K.; Zarinehbal, S.; Parasu, N. McMaster University, Hamilton, Canada

E486. Fractures in the Distal Radius—Relating Radiologic Assessment to Management
Hubeny, C.; Hedegard, W.; Mooney, S.; Dieudonne, G.; Seo, G.; Monu, J. University of Rochester, Rochester, NY

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E487. Diagnostic Cerebral Angiography—Indications, Technical Details with Hands on Approach, and Recognition of Complications
Srinivasan, A.; Mohan, S.; Hoeffer, E.; Mukherji, S. University of Michigan Health System, Canton, MI

E488. Comparison Between CT Angiography (3D-CTA) and Digital Subtraction Angiography (DSA) in Follow up of Post Clipped Cerebral Aneurysms
Richard, K.; Chakraborty, S.; Santos, M.; Glikstein, R. University of Ottawa, Faculty of Medicine, Ottawa, Canada

E489. Time of Flight MR Angiography of Micro Aneurysms at 7T
Sammet, S.; Schmalbrock, P.; Bourekas, E.; Heverhagen, J.; Knopp, M. 1. The Ohio State University, Columbus, OH; 2. Philipps Universitat, Marburg, Germany

E490. Normal Anatomy and Pathological Conditions of the Pineal Region: CT and MR Imaging
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E491. Imaging Findings and Differential Diagnosis of Primary CNS Lymphoma in the Immunocompetent Versus the Immunocompromised Patient
O'Mahony, D.; Knox, M.; Wilson, G.; McDermott, R. St. James’s Hospital, Dublin, Ireland

E492. Evaluation of Extracranial-Intracranial Bypass: Utility of CT Angiogram and CT Perfusion with Acetazolamide Challenge
Vagal, A.; Leach, J.; Strunk, R.; Zuccarello, M. 1. University Hospital, Cincinnati, Mason, OH; 2. Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

E493. Accuracy of CT Cerebral Perfusion Imaging in Demonstrating Ischemia: A Correlation of the Size of Ischemic Lesions on CT Perfusion Compared to Diffusion Weighted Imaging
Ho, C.; Hussain, S.; Alam, T. Indiana University, Indianapolis, IN

E494. Safety of Gadobenate Dimeglumine for Contrast-Enhanced MR Imaging of the CNS in Intraindividual Crossover Studies
Kuhn, M. University of Illinois College of Medicine, Peoria, IL

E495. What Do You Do About that Pesky Corpus Callosal Lesion? A Systematic Approach
Bodinale, R.; Bonfante-Mejia, E. University of Texas HSC at Houston, Houston, TX

E496. Brain Herniation
Shogan, P.; Peterson, M.; Petermann, G.; Smith, A.; Smirniotopoulos, J.; Walter Reed Army Medical Center, Washington, DC. 2. Marshfield Clinic, Marshfield, WI; 3. Uniformed Services University, Bethesda, MD; 4. Armed Forces Institute of Pathology, Washington, DC

E497. Pathophysiology and Corresponding Imaging Changes in Stroke
Kanekar, S.; Roller, R.; Showalter, M. Penn State Milton Hershey Medical Center, Hershey, PA

E498. Differentiation of Non-Neoplastic Diseases from Neoplastic Lesions Based on Advanced Imaging Techniques
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E499. Radiology of Ataxia
Kanekar, S. Penn State Milton S. Hershey Medical Center, Hershey, PA

E500. White Matter Disease (WMD)
Roller, R.; Showalter, M.; Kanekar, S. Penn State Milton S. Hershey Medical Center, Hershey, PA

E501. Altered Mental Status in the Emergency Department: Looking Beyond the Obvious
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Wolin, E.; Vijay, K.; Agarwal, A.; Ouyang, T. Penn State Hershey Medical Center, Hershey, PA

E505. CT and MR Imaging of the Corpus Callosum: A Pictorial Essay
Allmendinger, A.; Krauthamer, A.; Morgan, J.; Matthews, J.; Spektor, V.; Destian, S. St. Vincent’s Catholic Medical Center, New York, NY

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Gupta, N.; Gupta, J.; Palacios, E.; Rodgers, B. Tulane University of New Orleans, New Orleans, LA

E507. Cavernous Sinus: Review of Anatomy and Differential Diagnosis

E508. Pictorial Review of Jugular Foramen Lesions
Vanka, J.; Ramakrishniah, R.; Angtuaco, E.; Donepudi, S.; Shah, C. UAMS, Little Rock, AR

E509. Radiation Necrosis: When to Suspect and How to Diagnose by Imaging
Burghei, P.; Patel, B.; Palmer, C.; Curé, J.; Shah, R. University of Alabama at Birmingham, Birmingham, AL

E510. Look Beyond the Enhancing Margins: Significance of Peritumoral Region in Differentiation of Mass Lesions of the Brain
Mangla, R.; Ekholm, S.; Gill, G. University of Rochester, Rochester, NY

E511. Advanced Imaging in Follow-Up of Brain Tumors
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E512. * Pitfalls and Artifacts in Dynamic Susceptibility Contrast MR Perfusion of Brain
Mangla, R.; Ekholm, S. University of Rochester, Rochester, NY

E513. Meningioma: Spectrum of Imaging Findings at Multi-Imaging Modalities
Abdel Razek, A.; Castillo, M. 1. Mansoura University Hospital, Mansoura, Egypt; 2. University of North Carolina, Chapel Hill, NC

E514. * Dural Sinus Thrombosis: Spectrum of Imaging Findings
Abdel Razek A.; Castillo, M. 1. Mansoura University Hospital, Mansoura, Egypt; 2. University of North Carolina, Chapel Hill, NC

E515. * Imaging Spectrum and Etiology of Cortical Laminar Necrosis
Shepherd, S.; Hoots, J.; Makariou, E. Georgetown University Hospital, Washington, DC

E516. Functional and Dysfunctional Anatomy of the Uncinate Fasciculus and Regional White Matter Pathways

E517. Functional and Dysfunctional Anatomy of the Anterior Cingulum

E518. Functional and Dysfunctional Anatomy of the Posterior Cingulum

E519. Translating Diffusion Tensor Imaging for Presurgical Mapping

E520. MR Imaging of Primary Central Nervous System Lymphomas (PCNSL)
Rashidi, F.; Nguyen, T.; Chakraborty, S.; Santos, M. University of Ottawa, Ottawa, Canada

E521. Characterizing “In-Situ Thrombus” in Intracranial Vascularulature with Susceptibility Weighted Imaging (SWI)
Bhuta, S.; Wijedeera, R.; Hsu, C.; Kwan, G. Gold Coast Hospital, Gold Coast, QLD, Australia

E522. CNS Presentations of Leukemia as Primary Disease—A Scientific Exhibit of the Disease, its Complications and Infection
Vadvala, H.; Parekh, K.; Shah, S.; Rajpura, H.; Parida, S.; Goswami, K. Gujarat Cancer & Research Institute, Ahmedabad, India

E523. Schistosomiasis Mansoni as a Cause of Hyperintense Basal Ganglia
Manzella, A.; Borba-Filho, P.; Brandt, C.; Fonte, K. Hospital das Clinicas da Universidade Federal de Pernambuco, Recife, Brazil

E524. Enhancement-Perfusion Mismatch is Useful in Differentiation of Primary CNS Lymphomas From Other Enhancing Malignant Tumors of the Brain
Mangla, R.; Germin, B.; Ekholm, S. University of Rochester, Rochester, NY

E525. * What You Need to Know about MR Neuroimaging at 1.5T and 3T
Tanenbaum, L. Mt. Sinai School of Medicine, New York, NY

E526. Salvage Outcomes for Pituitary Adenomas Using Fractionated Stereotactic Radiosurgery: Cyberknife
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Hong, N.; Seo, H.; Lee, Y.; Cha, S. Korea University Hospital, Ansan, South Korea

E528. * An Image-Based Approach to MR Artifacts in Neuroradiology
Morelli, J.; Runge, V.; Ai, F.; Vu, L.; Nitz, W.; Schmeets, S.; Garg, V.; Desai, S. 1. Scott and White Memorial Hospital and Clinic, Temple, TX; 2. Tongji Medical College of Huazhong University, WuHan, Hubei, China; 3. Siemens AG, Erlangen, Germany

E529. Correlation of PET Hypo-and Hypermetabolism with Surgical Outcome in Refractory Epilepsy
Talanow, R.; Wu, G. The Cleveland Clinic, Cleveland, OH

E530. * cavernous sinus pathology: characteristic findings and clinically relevant differential diagnoses
Butani, D.; Gill, G.; Bhatt, A.; Dhillon, G.; Hung, J.; Almost, J. 1. University of Rochester Medical Center, Rochester, NY; 2. St Joseph Hospital, Ann Arbor, MI

E531. * I Spy Trouble: MDCT for the Evaluation of Acute Eye Pain in the Emergency Room
Downey, R.; Wesaowski, J.; Chan, R.; Shtein, R.; Chong, S. 1. University of Michigan, Ann Arbor, MI; 2. Weill Cornell Medical College, New York, NY

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E533. * Important and Potentially Dangerous ICA/ECA Communications: An Anatomic Review
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E534. * Interactive Atlas of CT Anatomy of the Skull Base

E535. * neurogenic thoracic outlet syndrome—a review of CT and MRI Findings
Iqbal, S.; Donahue, D.; Mehndiratta, A.; Torriani, M.; Gupta, R. Massachusetts General Hospital, Boston, MA

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E536. Imaging of the Neck Nodes; What is More Important Than Size?
Agarwal, A.; Sabot, S.; Ouyang, T.; Thamburaj, K. Penn State Hershey Medical Center, Hershey, PA

E537. Seeing is Believing: Orbital Emergencies on CT and Their Mimics
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E538. Pediatric Pop-Eye
Mathew, N.; Wu, L.; Nguyen, V. Long Island Jewish Medical Center, New Hyde Park, NY

E539. Role of 3D CT in the Evaluation of Craniosynostosis
Buckler, M.; Wu, L.; Nguyen, V. Long Island Jewish Medical Center, New Hyde Park, NY

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Wu, L.; Nguyen, V. Long Island Jewish Medical Center, New Hyde Park, NY

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Lysneky, G.; Viets, R. Beth Israel Medical Center, New York, NY

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Hussain, S.; Hattab, E.; Mosier, K.; Douglas-Akinwande, A. Indiana University School of Medicine, Indianapolis, IN

E544. Imaging the Pharyngeal Mucosal Space: The Aerodigestive Front Line

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Schemmel, D.; Borghei, P.; Chapman, P.; Shah, R. University of Alabama at Birmingham, Birmingham, AL

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Spanos, G.; Go, J. USC, Los Angeles, CA

E547. Carotid Sheath/Space: Normal Anatomy and Pathology

E548. Neurocytomas: The Good, the Bad, and the Ugly
Hobbs, S.; Goldstein, S.; Smith, A. 1. University of Kentucky, Lexington, KY; 2. Uniformed Services University, Bethesda, MD; 3. Armed Forces Institute of Pathology, Washington, DC

E549. The Clivus: from Embryology and Anatomy to Pathology
Dhillon, G.; Gill, G.; Kolar, B.; Altman, J. University of Rochester, Rochester, NY

E550. Skull Base Lesions—A Review of Imaging Characteristics and Normal Anatomy
Stewart, B.; Rebello, R.; Kennedy, S. 1. McMaster University, Hamilton, Canada; 2. St. Joseph’s Hospital, Hamilton, Canada

E551. Rare Neoplasms of Maxilla—CT and MRI Evaluation
Pandi, S.; Vaishnav, K.; Kumar, V.; Goswami, K.; Rathi, Y. Gujarut Cancer and Research Institute Ahmedabad, Gujarat, India, Ahmedabad, India

E552. Multiple Imaging Manifestations of the “Great Mimic” Neurosarcoidosis
Casey, D.; Palacios, E. Tulane University Health Sciences Center, New Orleans, LA

E553. Inner Ear Pathology: A Comprehensive Imaging Overview of Pathological Processes Affecting the Bony and Membranous Labyrinth
Gupta, N.; Gupta, J.; Palacios, E.; Rodgers, B. Tulane University of New Orleans, New Orleans, LA

E554. MRI Spectrum of Developmental Anomalies of Hypothalamic Pituitary Axis
Singh, P.; Giragani, S.; Khandekwal, N.; Gupta, V. PGIMER, Chandigarh-23, India

E555. Trouble at the Intersection: Pathologies of the Cavernous Sinus
Borghei, P.; Schemmel, D.; Roberson, G.; Shah, R. University of Alabama at Birmingham, Birmingham, AL

E556. Peripheral Facial Nerve Palsy: A Spectrum of Imaging Findings
Tan, J.; Mafae, M. University of California, San Diego, San Diego, CA

E557. Imaging of the Cranial Nerves: Structure, Function and Pathology
Maloney, J.; Poon, C.; Parkhurst, R.; Kier, E. 1. SUNY Upstate Medical University, Syracuse, NY; 2. University of Chicago, Chicago, IL; 3. Yale University School of Medicine, New Haven, CT

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Sammet, S.; Griffin, R.; Liang, J.; Yang, X.; Zhang, J.; Hall, N.; Shah, M.; Knopp, M. The Ohio State University, Columbus, OH

E559. Role of Diffusion Weighted MR Imaging in Differentiation of Masticator Space Infection from Tumor
Abdel Razek, A. Mansoura University Hospital, Mansoura, Egypt

E560. Pterygopalatine Fossa: An Important Intersection
Sathyakumar, V.; Angtuaco, E.; Ramakrishnaiah, R.; Kaushik, C.; Kumar, M.; Younas, M.; Shah, C. University of Arkansas for Medical Sciences, Little Rock, AR

Grover, R.; Dos Santos, M. University of Ottawa, Ottawa, Canada

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<td>Gluck, G.; Lev, S. Nassau University Medical Center, East Meadow, NY</td>
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<td>E563. Spectrum of Complications of Temporal Bone Fractures</td>
<td>Krahthamer, A.; Gerena, M.; Morgan, J.; Destian, S. New York Medical College at St. Vincent’s Hospital, New York, NY</td>
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<td>Casey, D.; Rodgers, B.; Palacios, E.; Friedlander, P. Tulane University, New Orleans, LA</td>
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<td>E566. Orthopantogram Findings to Differentiate Early Malignant Erosion of Mandible from Root Resorption in Case of Carcinoma of Buccal Mucosa</td>
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<td>E569. Limited Views of the Orbits to Screen for Metallic Foreign Bodies Prior to MR Imaging</td>
<td>Berner, M.; Kier, R.; Muro, G.; Graf, D. Bridgeport Hospital, Bridgeport, CT</td>
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<td>E573. Recurrence in the Thyroidectomy Bed: Sonographic Findings</td>
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<td>Kim, D.; Lee, Y.; Sin In, H.; Jeong, H.; Eun, C. Busan Paik Hospital, Inje University School of Medicine, Busan, Korea</td>
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<td>E575* Bisphosphonate-Associated Osteonecrosis of the Jaws</td>
<td>Godoy, L.; Sarrit, R.; Almeida, F.; Sánchez, L.; Cerri, G.; Gebrim, E. Hospital Sírio Libanés, São Paulo, Brazil</td>
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<td>Anthony, M.; Zhang, Z.; Feng, S.; Yau, K.; Khong, P.; Mak, H. University of Hong Kong, Hong Kong, Hong Kong</td>
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<td>E577. Distinguishing Intrathyroid Parathyroid Pathology from Thyroid Nodules</td>
<td>Heller, M.; Tublin, M. University of Pittsburgh, Pittsburgh, PA</td>
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<td>E578* Imaging of the Clivus: Normal, Abnormal and as a Marker of Underlying Systemic Disease</td>
<td>Vijay, K.; Moore, G.; Agarwal, A.; Nguyen, D. Penn State Hershey Medical Center, Hershey, PA</td>
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<td>E581* Thyroid Gland Metastases: Overview of Imaging Findings with Pathological Correlation</td>
<td>Iyer, V.; Lubitz, C.; Stephen, A.; Hahn, P.; Harisinghani, M. Massachusetts General Hospital, Boston, MA</td>
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<td>E583. Pictorial Review of Imaging Characteristics of Intradural Spinal Tumors</td>
<td>Jabebedar Maralani, P.; Chokraborty, S. University of Ottawa, Ottawa, Canada</td>
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Soderlund, K.; Smith, A.; Rushing, E.; Smirniotopoulos, J. 1. National Naval Medical Center, Bethesda, Bethesda, MD; 2. Armed Forces Institute of Pathology, Washington, DC; 3. Uniformed Services University, Bethesda, MD

E588* CTA Evaluation of Collateral Pathways in Carotid Occlusive Disease
Shah, L.; Kieper, K. University of Utah, Salt Lake City, UT

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Blackham, K.; Ciancibello, L.; Gilkeson, R.; Tarr, R.; Hsu, D. University Hosp of Cleveland Case Medical Center, Cleveland, OH

E590* Multidetector CT Evaluation of Carotid Atherosclerotic Disease: Spectrum of Vulnerability
Antypas, E.; Nandalur, K. William Beaumont, Royal Oak, MI

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E591. HIDA Scan: Thinking Outside the Biliary Tree: Unexpected Findings on Cholescintigraphy
Masuda, E.; Dalal, I. Henry Ford Hospital, Detroit, MI

E592*. Osseus Pathology of the Lower Extremity in Children: Tc99m Bone Scan Findings with Emphasis on Correlative Imaging
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E594. PET Findings in Amyotrophic Lateral Sclerosis with Cognitive Impairment
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Rodgers, B.; Gupta, J. Tulane University, New Orleans, LA

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E599. Improving Informed Consent for Radioactive I-131 Treatment
Epling, J.; Veselicky, K. West Virginia University, Morgantown, WV

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Khayyat, N.; Tarabishi, A.; Joyrich, R. 1. Wayne State University, Detroit, MI; 2. Detroit Medical Center, Detroit, MI

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Arani, K.; Nandalar, K.; Wong, C. 1. William Beaumont Hospital, Royal Oak, MI; 2. WHR, Royal Oak, MI

E602. FDG PET/CT in the Primary Staging Evaluation of Adenocarcinoma of Lung
Talanow, R.; Shrinanathan, S.; Mohammed, T. The Cleveland Clinic, Cleveland, OH

E603. The Value of FDG-PET/CT in the Management of HIV-Related Malignancies
Davison, J.; Cooley, T.; Subramaniam, R. Boston University School of Medicine, Boston, MA

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Khayyat, N.; Tarabishi, A.; Joyrich, R. 1. Wayne State University, Detroit, MI; 2. Detroit Medical Center, Detroit, MI

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E606. FDG-PET/CT in the Assessment of Unknown Primary Tumor Presenting with Lymphadenopathy
Rajebi, M.; Wells, K.; Fa, Y. 1. SUNY Upstate Medical University, Syracuse, NY; 2. University of Tennessee Medical Center, Knoxville, TN

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Yang, S.; Kim, D.; Lee, Y.; Chun, T.; Kim, K.; Han, H.; Yoo, H.; Hwang, C. 1. Eulji University Hospital, Daejeon, South Korea; 2. Konyang University Hospital, Daejeon, South Korea

E608. Outside The Box: Utilizing Balloon Models as a New Technique to Teach Concepts of Nuclear Cardiology
Gerard, P.; Lefkovitz, Z.; Duarte, M. Westchester Medical Center, New York, NY

E609.* What Kind of Scan Is It? New Techniques In Teaching Residents The Recognition of Whole Body Nuclear Scans
Gerard, P.; Lefkovitz, Z.; Wu, J.; Dua, S.; Moonthungal, S. 1. Westchester Medical Center, New York, NY; 2. Hackensack University Medical Center, Hackensack, NJ

E610.* E-NUCS: Online Evaluation and Skills Development in Nuclear Medicine with a Focus on Hybrid Modalities Such as PET/CT and SPECT
Talanow, R.; Grunewald, M.; Kuwert, T. 1. The Cleveland Clinic, Cleveland, OH; 2. EduRad, Cleveland Heights, OH; 3. University of Erlangen/Nuernberg, Erlangen, Germany

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Talanow, R.; Neumann, D. The Cleveland Clinic, Cleveland, OH

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Nguyen, B.; Ram, P.; Roarke, M. Mayo Clinic, Scottsdale, AZ

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E616. Pediatric Bladder Masses and Their Mimics: A Multimodality Pictorial Review
Friedkin, A.; Chow, J.; Taylor, G. Children’s Hospital Boston, Boston, MA

E617. Pediatric Stress Fractures: An Interactive Case Series with Emphasis on MRI and Radiologic Correlation
Vogelius, E.; Yarmohammadi, H.; Robbin, M.; Young, P. UH Case Medical Center, Cleveland, OH

E618. Pediatric Osteomyelitis: An Interactive Case Series with Emphasis on MRI and Radiologic Correlation
Yarmohammadi, H.; Vogelius, E.; Robbin, M.; Young, P. UH Case Medical Center, Cleveland, OH

E619. Imaging of Absent Septum Pellucidum on Prenatal Ultrasound: Correlation with Prenatal MRI

E620. MR Imaging of Cerebellar Malformations
Abdel Razeq, A.; Castillo, M. 1. Mansoura University Hospital, Mansoura, Egypt; 2. University of North Carolina, Chapel Hill, NC

E621. Imaging Seizures in Pediatric Patients
Abdel Razeq, A.; Castillo, M. 1. Mansoura University Hospital, Mansoura, Egypt; 2. University of North Carolina, Chapel Hill, NC


E623. Neonatal Cranial Sonography: A Pictorial Review
Nevile, S.; Shang, S.; Rotem, E.; Kazmii, K. Drexel/Hahnemann University Hospital, Philadelphia, PA

E624. Utility of Sonography in Evaluation and Treatment of Pediatric Breast Infections
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