

Radical Views...

from the Department of Radiology







RSNA®

Radiology

Radiology's
1st Annual
MORRIS
SIMON
RESEARCH
DAY
2017

Getting to the Truth: Challenges for Authors and Reviewers of Biomedical Research Articles

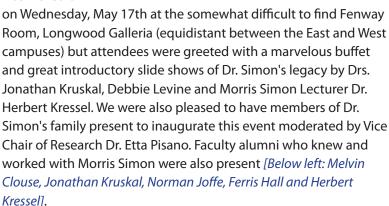
Herbert Y. Kressel, M.D. Editor, Radiology Miriam H Stoneman Professor of Radiology Harvard Medical School



Dr. Etta Pisano and three generations of Simon family members represented by Dan, Josi and Asha Simon.



The first annual Morris Simon Research Day was kicked off



Morris Simon Research Day focuses on celebrating the research efforts of the entire department and Dr. Pisano chose four posters to represent trainee efforts and seven talks by faculty to update us on their current study efforts before guest speaker and BIDMC alumnus Herbert Kressel, current Editor of Radiology, gave the first Morris Simon Research Day Talk.

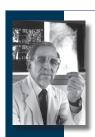
Research awards which honored the work of BIDMC staff and trainees over the past year were also presented at this event (see pg 3).

Congratulations to all!

MORRIS SIMON RESEARCH DAY 2017 (cont'd)



Interventionalist Seth Berkowitz delivers the first Faculty Research Talk at the first annual Moris Simon Research Day



Department of Radiology

Morris Simon Research Day 2017

1st Annual Morris Simon, MD Memorial Lecture:

Getting to the Truth: Challenges for Authors, Reviewers and Readers of Biomedical Journals

presented by 2017 Distinguished Visiting Professor

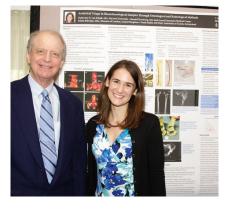
Herbert Y. Kressel, MD

Miriam H. Stoneman Professor of Radiology, Harvard Medical School Editor in Chief, Radiology



Faculty Presentations:

- 4:30-4:40 Mobile Devices and Patient Generated Data Why Should Radiologists Care. **Seth Berkowitz, MD**
- 4:40-4:50 Imaging Perfusion and Metabolism with Hyperpolarized MRI. **Aaron Grant, PhD**
- 4:50-5:00 Contrast Mammography for Breast Cancer Screening. **Jordana Phillips, MD**
- 5:00-5:10 Determining the Value of Imaging and Image-guided Therapy in Healthcare Delivery. **Ammar Sarwar, MD**
- 5:10-5:20 Evaluation of Tumor Microenvironment using 13C MRI. **Leo Tsai, MD, PhD, MSc**
- 5:20-5:30 Novel Imaging Techniques in the Evaluation of Muscle Disorders. **Jim Wu, MD**
- 5:30-5:50 Using Biologic Approaches to Improve Image-Guided Tumor Ablation. **Muneeb Ahmed, MD**



Trainee posters:

Analytical triage in bioarchaeological samples through osteological and radiological methods. **Katherine D. van Schaik** (Medical Student)

Outcomes of TIPS reduction: Do symptoms related to the original indication for TIPS return? **Anthony Esparaz, MD** (3rd yr Resident)

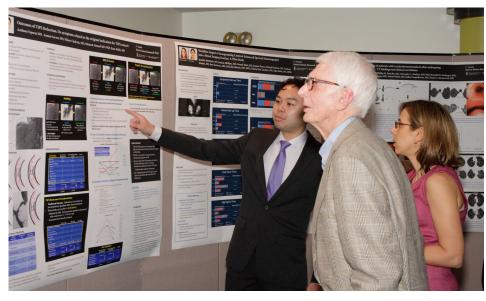
Longitudinal follow-up of patients with tracheobronchomalacia after undergoing tracheobronchoplasty - CT findings and clinical correlation. **Fourie Bezuidenhout, MD** (Cardiothoracic Fellow)

Workflow Impact of Incorporating Contrast Enhanced Spectral Mammography into a Breast Imaging Practice: A Pilot Study. **Jennifer Steinkeler, MD, Komal Talati, MD** (4th yr Residents)

MORRIS SIMON RESEARCH DAY 2017 (cont'd)



Morris Simon Trainee Award for Innovation - **Thomas Anderson**, 3rd yr resident



Fleischner Young Investigator Award for Research - **Anthony Esparaz**, 3rd yr resident shares his work with Mel Clouse and Jordana Phillips.



Herbert Kressel Award for Best Trainee Presentation - **Christine Chen**, 4th yr resident



RSNA Resident Research Award - **Patricia Coutinho de Souza**, MRI Research Fellow



Best Fellow Research Award - **Sean Raj**, Breast Imaging Fellow



Morris Simon Award for Research Innovation - **Leo Tsai**, MR Faculty



Morris Simon Award for Clinical Innovation *and* The Morris Simon Research Sabbatical - **Ammar Sarwar**, IR Faculty

Radiology Calendar JUNE 2017

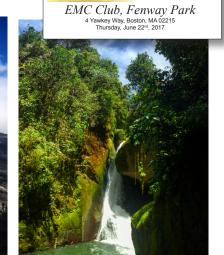
Check for the most up-to-date schedule at: https://apps.bidmc.org/departments/radiology/residency/conferences/displayMonth.asp

Mon	Tues	Wed	Thurs	Fri
Weekly Mon Section Meetings: 3:00-4:00 ED section meeting [ED annex, WCC]		Weekly Wed Section Meetings: 11:00-12:00 MSK clinical conference 12:00-1:00 CardioThoracic, Gl/GU Oncology 3:00-4:00 Mammo [TCC-484]	Weekly Thurs Section Meetings: 12:00 - 1:30 Abd [WCC-354] 12:00-1:00 MSK	Note that as of July 2016, our 12 noon Friday Grand Rounds will now be in the Rabkin Board Room , Shapiro-10, East Campus (except when noted otherwise)
2017 Grand Rounds on B Gradients & Other Hum	or Quality Dr. Bettina Siewe arriers to Safety Event Rep an Factors, click below for I 15366620/review/214061	porting: Authority ner video:	7:30 - 9:00 Rad-Path Concordance and Breast Cases (Neely Hines) 3:00-4:00 West MedRads - Sr. Resident, West Body CT [Clouse]	2 12:00 - 1:00 4th year Scholarly Projects Drs. Komal Talati, Christine Chen, Matt Del Guzzo, Amanda Kappler, Quang Nguyen, Jenny Steinkeler
5 7:30 - 8:15 GU interventions 1 (Olga Brook) 8:15 - 9:00 GU interventions 2 (Jeffrey Weinstein)	7:30 - 8:15 Endocrine interventions (Barry Sacks) 8:15 - 9:00 TBD (Sahil Mehta) 12:00-1:00 Neuro call prep (Neuro fellows)	7 7:30 - 9:00 Call Lottery (Chief Residents) 12:00-1:00 Neuro case conference (Neuro fellows)	8 7:30 - 8:15 Venous Interventions (Ammar Sarwar) 8:15 - 9:00 Case review (Jeffrey Weinstein) EVENT: CORE EXAM	9 EVENT: CORE EXAM 12:00-1:00 4th year Scholarly Projects Drs. Komal Talati, Christine Chen, Matt Del Guzzo, Amanda Kappler, Quang Nguyen, Jenny Steinkeler
12 7:30 - 8:15 MSK (TBD) 12:00-1:00 MRI meeting [Ansin 2] EVENT: CORE EXAM	13 7:30 - 8:15 MSK (TBD) 7:30 - 8:15 MSK (TBD) EVENT: CORE EXAM 10:30-11:30 NMMI meeting [GZ-103]	14 7:15-8:00 US meeting [WCC-304A] 7:30 - 8:15 MSK (TBD) 7:30 - 8:15 MSK (TBD) 12:00-1:00 Neuro case conference (Neuro fellows)	15 7:30 - 8:15 MSK (TBD) 7:30 - 8:15 MSK (TBD) 3:00-4:00 West MedRads - Sr. Resident, West Body CT [Clouse]	16 7:30 - 8:15 Psychology Topics In Radiology (Michael Fishman) 12:00 - 1:00 4th year Scholarly Projects. Drs. Drew Colucci, Jawad Hussain, Ning Lu, Hannah Perry
19 7:30 - 9:00 Ovaries (Karen Lee)	20 7:30 - 8:15 Body (TBD) 7:30 - 8:15 Body (TBD) 8:00-9:00 IR Meeting [West Recovery]	21 7:30 - 8:15 Neuro (TBD) 8:15 - 9:00 Neuro (TBD) 12:00-1:00 Neuro case conference (Neuro fellows)	22 7:30 - 8:15 Body (TBD) 7:30 - 8:15 Body (TBD) Fleischner Graduation - EMC Club, Fenway Park 6-10 pm	23 12:00 - 1:00 24th Fleischner Lecture:- Community Radiology - Back to the future of the Academic Department? (Max Rosen) [Sherman Aud]
26	27 10:30-11:30 NMMI meeting [GZ-103]	28 12:00-1:00 Neuro case conference (Neuro fellows)		30 purment of Padalogy least Descenses Medical Contre Ath Annual Risa & Felix

The Gallery
presents a show by

Andres Camacho
Costa Rican Native & CT Research Fellow





Fleischner Graduation Dinner

JUNE 2017 GRAND ROUNDS:

12:00 - 1:00 PM · Sherman Auditorium

Friday, June 23, 2017 24th Annual Fleischner Lecture:



Community Radiology - back to the future of the Academic Department?

In the days of Felix Fleischner, the Radiology reading room functioned

as the "community center" of the hospital. Then came PACS - and the community crumbled. Can we get the community back?

Max Rosen, MD, MPH, FACR - Chairman of Radiology, UMASS Memorial Medical Center; Professor of Radiology, UMASS Medical Center, Worcester, MA

Welcome Dr. Max Rosen, former Executive Vice Chair and Associate of Community Network Affairs responsible for expanding our community imaging division at BIDMC Radiology. Max joined UMASS as Radiology Chair in 2012 and returns to present the 24th annual Risa & Felix Fleischner lecture on Community Radiology.

A graduate of Tufts University Medical School, Max completed his radiology residency training at Boston City and University Hospital, a fellowship in Interventional Radiology at MGH, and went on to earn a Masters in Public Health from the Harvard School of Public Health.

Max continues to collaborate with BIDMC faculty & Trainee alumni and most recently published:

Sarwar A, Zhou L, Chakrala N, Brook OR, Weinstein JL, Rosen MP, Ahmed M. The Relevance of Readmissions after Common IR Procedures: Readmission Rates and Association with Early Mortality. J Vasc Interv Radiol. 2017 May;28(5):629-636. PMID: 28291716.

DeBenedectis CM, Gauguet JM, Makris J, Brown SD, Rosen MP. Coming Out of the Dark: A Curriculum for Teaching and Evaluating Radiology Residents' Communication Skills Through Simulation. J Am Coll Radiol. 2017 Jan;14(1):87-91. PMID: 27914939.

Patient Feedback: Congratulations IR on a job well done!



Courtney Petersen, RN



Ben Delahanty, IR Tech



Ginny Benway, IR Tech



Lindsay Downes, RN



Dr. Ahmed Fadl, VIR Fellow

On Tuesday, May 16 I was a patient receiving a Port Placement. The team that was responsible for my care were outstanding. Their compassion, friendliness and positivity surprises none. I was made to feel so comfortable and at ease. The team made a very scary situation a lot better. I felt that you should know what an awesome team you have. I am so very grateful. Their names are as follows: Courtney, Ben, Ginny, Lindsay, Dr. Fadl, Celia and Joe. Please thank them for all they do.

Dear Dr. [Muneeb] Ahmed,

Gratefully, [Name withheld per HIPAA regs] Randolph. MA



Acelia Pluvoise, Patient Care Technician



Joe Aloisi, RN



FROM THE CHIEF
Jonathan B. Kruskal, MD PhD

Congratulations Dr. Etta Pisano, Vice Chair of Research

I am pleased to announce that Dr. Etta Pisano, Vice Chair of Research who came to BIDMC in November 2015 has been appointed as the first ever *Professor in Residence of Radiology* effective April 1, 2017. The title Professor in Residence is used to appoint a small number of senior individuals recruited to the Professorial ranks for a limited period of time. The intended use of this title is to appoint senior scholars who fulfill the

following requirements:

- Fulfill a well-defined but potentially time-limited programmatic or administrative need
- Have the capacity to make significant contributions to the Faculty of Medicine throughout the term of their appointment
- Have had a considerable impact on their field, including demonstrated excellence in research and teaching

Etta has demonstrated her pioneering abilities in her work in DMIST (Digital Mammographic Imaging Screening Trial) and as a representative of medical imaging at the Cancer Moonshot National Summit in 2016. Congratulations Etta!



News

Pisano to Represent Medical Imaging at Cancer Moonshot National Summit

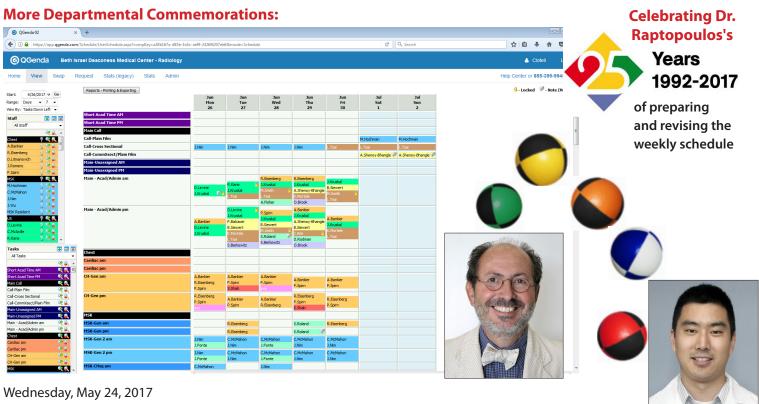
ACR member and renowned radiology researcher Etta Pisano, MD, FACR, will represent the medical imaging community at the June 29 National Surmit for the National Cancer Moon Shot Initiative in National Cancer Moon Shot Initiative in National Cancer Moon Administration's push to doubte the pace of research toward curing cancer through the \$1 billion National Cancer Moonation Initiative.

The invitation enabling the Academy of Radiology Research (ARR) to send Pisano, who serves on the Academy's executive committee, is considered progress toward expanding the profile of imaging in the Moonshot program, headed by Vice President Joe Biden.

The radiology community, via the ARR, expressed concern regarding the lack of medical imaging expertise on the task force and blue ribbon panel that administer the Moonshot effort. The initiative's arbiblious timebable calls for the National Cancer Institute to announce final research recommendations in August.

Center. She was primary investigator for the landmark American College of Radiology Imaging Network (ACRIN) Digital Mammographic Imaging Screening Trial (DMIST), which showed that digital mammography was as accurate as film mammography in most women.

DMIST also showed that digital mammography detected more cancers than screen film in younger women, premenopausal and perimenopausal women, and women with dense breasts.



Hello Everyone:

The schedule for the week of June 26 is now available in QGenda. This is the last schedule I am preparing and ends 25 years of juggling between clinical, academic and personal needs and commitments. Clotell Forde will continue as schedule coordinator and Dr. Justin Kung has already prepared the July 3rd week. It has been an honor to serve the Department and Staff in preparing and revising the weekly clinical schedule. It has been a dynamic and often challenging experience which brought me closer to each one of you.

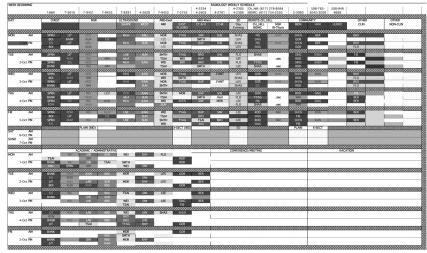
Thank you for the opportunity.

- Vassili Rap



Dear All I just wanted to publically acknowledge the incredible job that Vassili has put into the schedule over the past 25 years. He surely must wake up at night seeing excel

spreadsheets (see right >)! Vassili has gone way above and beyond to accommodate the overwhelming majority of your last minute changes and needs, to personalize everybody's priorities and he must be the only person who understands the complexities of the holiday week. Our services have been covered despite a growing number of scattered locations and PACS and STAFF WEEKLY ASSIGNMENTS - RADIOLOGY BIDMO



RIS systems, and our referring docs have remained really satisfied with our excellent imaging services. I don't think there really is an effective way to thank somebody who has put this enormous time and effort into making everybody else's schedule work, but as a group I wanted to let Rap know that to show our genuine appreciation we have agreed unanimously to give him this coming Monday AND Tuesday (may 29 and 30) off from work! A most well deserved vacation!

Seriously though Vassili, we are all deeply appreciative of your incredible and devoted efforts to keep the peace and to try to make an intrinsically unfair process work as fairly and smoothly as you did. You did a terrific job.

Thank you from all of us.

- Jonny

RADIOLOGY KICKS OFF: TALK TO ME

On Friday April 14th Dr Bettina Siewert's Grand Rounds talk, **Barriers to Safety Event Reporting: Authority Gradients & Other Human Factors,** kicked off a department wide initiative called **Talk to Me**. [Click for the video of her presentation: https://vimeo.com/user15366620/review/214061890/74ab259f2c]

Suzanne: Bettina please describe the the Talk to Me initiative.

Bettina: Talk to Me is a department wide initiative encouraging staff to commit to speaking up if they have a safety concern and to commit to listening when a safety concern is raised.

Suzanne: What are the most common reasons Radiology staff do not always speak up?

Bettina: High reporting threshold is the most frequent reason meaning staff do not always speak up if they are not 100% sure they are correct or if they only realize after the fact that something is a safety concern. Fear of challenging authority, fear of disrespect and a lack of listening are amongst our top reasons for not always speaking up.

Suzanne: How can we lower the reporting threshold?

Bettina: We have to change our culture and our mindset. Each individual comes to this department with a unique set of skills and experiences that broaden and enhance our department. It is not possible nor should we expect that each of us knows everything there is to know; therefore, we need to be able to rely on each other to speak up even if we are not 100% sure there is a safety concern. Each of us is a vital link in a safety net that protects our patients and our staff from harm. Any hole in this net places all of us in a vulnerable position.

Suzanne: What other cultural changes are needed?

Bettina: We need to create a truly respectful culture. 5 ways to show respect are:

- Listen. I know it sounds easy but listening truly listening can be one of the hardest skills to master
- Encourage others to express opinions and ideas
- Acknowledge the efforts of others and congratulate a job well done
- · Be helpful and supportive
- Say "Thank-You"

Suzanne: What should be reported?

Bettina: Any situation that has potential to cause harm to patient, staff or families.

Suzanne: How should I report a safety concern?

Bettina: An imminent concern for patient or staff safety needs to be called out in the moment. If no patients are present you should say "I have a safety concern". To alert the team of a



Suzanne Swedeen, RN MSN CNIV, Quality Improvement Specialist

safety concern when a patient is present you can say "Can we review the images on the larger screen outside the room?"

Suzanne: How do we report a general safety concern?



Bettina Siewert, MD Executive Vice Chair & Vice Chair of Quality

Bettina: Staff can use the hospital-wide incident reporting system call **RL 6** or the Radiology online QA database which has been upgraded to include a near miss category. Staff can also email Suzanne Swedeen with

any questions or concerns.

Suzanne: What are the goals of this initiative?

Bettina: Our 1-year goal is that 85% of staff will always speak up if they have a safety concern. Our 5-year goal is to reduce the number and severity of serious adverse events.

Suzanne: One of the big challenges to any new initiative is keeping it going. How do you plan to keep the momentum going for this initiative?

Bettina: Each month Suzanne and I will review all safety concerns called out and while we realize staff do not need incentives to do the right thing, we want staff to know that we are seriously committed to this initiative and therefore the department will reward with a bonus payment. Each month we will highlight in the newsletter the safety concern raised with the biggest impact and award the staff member a bonus.

Suzanne: To get started what are the top 3 things staff should do today?

Bettina:

- 1) Commit to speaking up & lowering your reporting threshold
- 2) Commit to listening and show appreciation by thanking the person for raising the safety concern
- 3) Commit to your role in creating a respectful work environment

Suzanne: Is there anything else you would like staff to know?

Bettina: Over the coming months we will feature more helpful tips for improving our culture of safety.

Special Thanks to our Safety Workgroup who have so generously given of their time and insight into the issue of speaking up:

Leighton Atkins Robert Beeman Nicole Caddell Meredith Cunningham Maggie Cybulska Donna Hallett Fritz Honore Juline Horan

Alexei Kudla

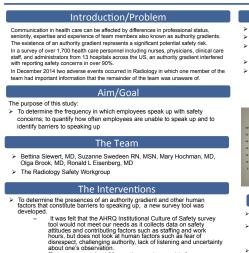
Trevor Lewis
Hazel Malolos
Jennifer Ní Mhuircheartaigh
Bridget O'Bryan
Bettina Siewert
Suzanne Swedeen
Aaron Thurston
Steven Warren
Jim Wu

RADIOLOGY at the 10th ANNUAL SILVERMAN SYMPOSIUM

Radiology was proud to be part of the 10th Annual Silverman Symposium that showcases process improvement efforts by presenting 11 posters on Shapiro-10. Size limits of this newsletter prevent the reproduction of them all so please click on this link to view them by title: http://www.bidmc.org/Silverman2017

- 1. Barriers To Safety Event Reporting: Authority Gradients And Other Human Factors Suzanne Swedeen
- 2. Clinical And Radiologic Predictive Factors Of Septic Shoulder Arthritis Ning Lu
- 3. Electronic Kiosks To Learn About The Patient Experience In Radiology Aideen Snell
- 4. Quality Assurance In Neuroradiology: Reduction Of Motion Artifacts In Brain MRI Examinations David Khatami
- 5. Optimizing MRI Logistics: Prospective Analysis Of Performance, Efficiency And Patient Throughput Kevin Beker
- 6. Pelvic Ultrasound: Analysis Of Endometrial Biopsy Recommendations Amanda Kappler
- 7. PhotoConsult: Clinical Photography Mobile App Seth Berkowitz
- 8. Radiology Resident Idea System: Trainees Engaged In QI At The Institutional Level Alexai Kudla
- 9. The Post Procedure Closeout In Radiology Suzanne Swedeen
- Time Metrics Of Incorporating Contrast Enhanced Spectral Mammography Into A Breast Imaging Practice Jennifer Steinkeler
- 11. Utility Of Core Needle Rebiopsy Of Initially Non-Diagnostic Musculoskeletal Lesions Jenny Ní Mhuircheartaigh

Barriers to Safety Event Reporting: Authority Gradients and other Human Factors



about one's observation.
The survey contained 20 questions and was void of any identifiable information to protect the respondents' anonymity with only gender, length of employment and job classification asked.

Beth Israel Deaconess | HARVARD MEDICAL SCHOOL | The SILVERMAN INSTITUTE | Medical Center | HARVARD MEDICAL SCHOOL | The SILVERMAN INSTITUTE | For Health Care Quality and Safety

In preparation for the survey we attended monthly staff meetings in every section and in every job classification to discuss the impact of an authority gradient on patient safety and the importance of the upcoming survey. The survey was sent out to every Radiology employee in every job classification.

Results/Progress to Date

- 364 of 648 (56%) of employees completed the survey
 10 barriers to communicating safety events were evaluated
- 50% of employees reported being unable to report 100% of safety events
- which represents a possible 184-690 unreported safety concerns

 The most common barrier to speaking up differed among staff groups
- > Top three reasons for not speaking up were identified as
 - ➤ High reporting threshold
 - Not wanting to challenge authority
 - Fear of disrespect



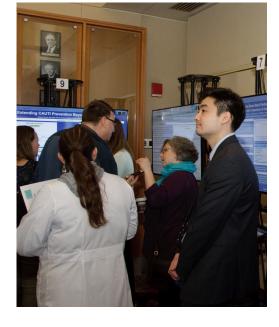
Lessons Learned

- While significant safety issues can result when staff are unable to always speak up, the act of speaking up is much harder than one might expect.
- 50% of employees in Radiology department reported not being able to speak up about safety concerns 100% of the time. The most common root causes for not speaking up consist of a high reporting threshold, not wanting to challenge authority and fear of disrespect.
- Cultural changes are needed to support staff towards 100% safety event reporting.

Next Steps

 Convene a multidisciplinary workgroup represented by all job classification to better understand the identified barriers to speaking up and to determine targeted interventions to decrease or eliminate barriers.

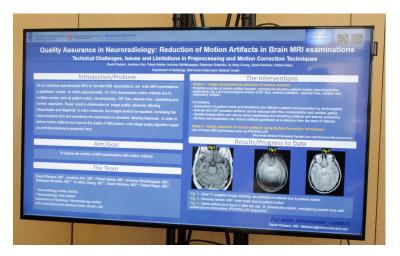
> For more information, contact: Suzanne Swedeen RN MSN 617-754-2768 ssswedeen@bidmc.harvard.edu

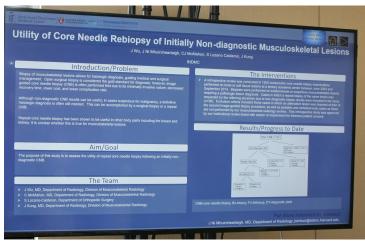


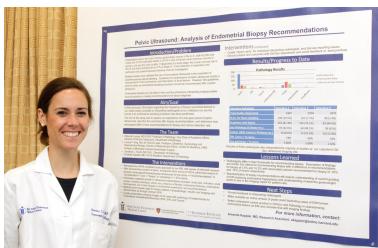




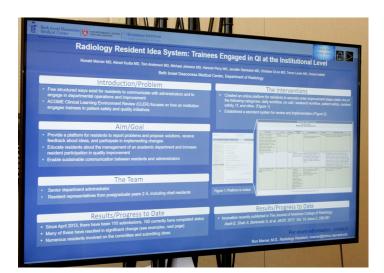
RADIOLOGY at the 10th ANNUAL SILVERMAN SYMPOSIUM (cont'd)











PhotoConsult: Clinical Photography Mobile App

The Problem

The Problem

Many clinical consultations rely on visual examination of a patient. Photographic documentation of hysical findings in the electronic medical record is important for justifying treatment, assessing response, and communicating findings between providers. Clinicians' personal smartphones with high quality cameras offer a convenient way to capture and share edigital photographs. Unfortunately, storage of patient photographs on personal devices is not complaint with HIPAA and puls protected health information at risk of inadvertent data breach many personal devices synchronizes with commercial cloud rinage sharing services.

Aim/Goal

- Create a smartphone application (app) that:

 > Is say to use at the bedaide

 > Protects patient privacy

 > Enables real time, secure transmission and retention of clinical photographs

 > Does not store PHI on personal devices

 > Does not store PHI on personal devices

 > Uses HIPAC compliant infrastructure for transmission and storage in the
 electronic health record (EHR)

- The Team

 > Seth Berkowtz, MD App Developer, Interventional Radiologist
 > Web Application, Server and Security Teams
 > Amy Goldman Project Manager
 > Norma Chiburni RHIT CHPS, Director Privacy & Confidentiality
 > Ambulatory Services Team Pilot and Production Support

- The Interventions

 Partnership between IT and a physician-programmer (Crowdsourcing) to build an easy to use app that integrates with existing BIDMC clinical systems

 Users authenticate with standard BIDMC ITS login credentials

 The patient is identified by medical record number (MRN) or by scanning the barcode on the patient's identification tracelet

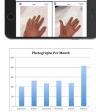
- barcode on the patient's identification bracelet The phone's cameral used to take or more dinical photograph(s). The user is able to edit and annotate the images. The app wirelessly transmits the pictures to OMR as a PDF. The images are a permanent part of the patient's permanent medical record Images are never saved on the device. A text message can be sent to another clinician, allowing them to view the images via a secure link.

Beth Israel Deaconess | W HARVARO MEDICAL SCHOOL | See SILVERMAN INSTITUTE
Medical Center | For Realth Care Quality and Sufery

The Results/Progress to Date

The app has been ploted in the departments of Medicine, Dermatology, Surgery, Emergency Medicine, and Interventional Radiology. Feedback has been overwhelmighly positive. The app has been used to capture and track progression of physical exam findings such as cellulist, angiocedema, and coular findings. The app has improved communication with remote consultar





Lessons Learned

Lessons Learned

Smartphones have become an essential tool in modern healthcare. Privacy of the patient and hisher health condition is non-negotiable in the 21st century. Health information is considered amongst the most sensitive and personal information that information that individuals possess. Patients must have frust that photos will be securely transmitted and maintained in the medical record. Providers are eagler for an easy-to-used to that helps them quickly, securely, and appropriately capture clinical photographs.

Next Steps/What Should Happen Next Broaden distribution of PhotoConsult for clinician use. Use

- Broaden distribution of PhotoConsul for clinican use. Users must have a supported device (current) similar to Phonon, Pag, and Ppol Touch)
 PA0 on the Protite Home Patrianets Information Systems > IT Strategic Phonon to Protite Home Patrianets Information Systems > IT Strategic Phonon to Protite Home Patrianets Information Systems > IT Strategic Phonon to Protite Home Patrianets Page Protite Home Patrianets Page Protite Page Protite Home Page Page

For more information, contact:

IN HONOR OF NURSES WEEK May 6-12, 2017: Celebrations & Recognitions



Bridget O'Bryan, RN Director of Radiology Nursing

Our Mission:

"To build on a legacy of nursing excellence by caring with compassion, advancing the art and science of nursing, and advocating for the health of patients, families and communities"

I truly believe that I have the best

team of nurses at BIDMC. They exemplify nursing excellence every day in some of the most challenging of situations. They continue to embrace departmental changes, remaining supportive of each other with a focus on delivery of patient-centered quality care.

THANK YOU!!!

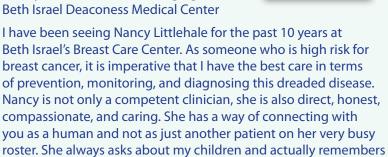
Congratulations also to Nadia (Aires) Muscato on her advancement to CN 111



Featured in **Boston Globe Salute to Nurses 2017** Letters

by Zach Gordano May 6, 2017

Nancy Littlehale [Breast Imaging NP] Beth Israel Deaconess Medical Center



Nancy is my go-to person—I always request her whenever I am required to have invasive testing done—and my rock. Thank you, Nancy. I am blessed to have you in my life.

how many I have. This is truly appreciated, as my visits are always

Nominated by Kelly Papa

fraught with fear and anxiety.

Thanks so much to IR for the amazing spread they provided to honor the efforts of our nursing staff!









IN HONOR OF NURSES WEEK May 6-12, 2017: Celebrations & Recognitions (cont'd)

















Also please welcome: Jin Park

In a department as large as ours, it's hard to keep track of our new employess.

Please welcome **Yojin** (**Jin**) **Park**, **MPH** who joins Interventional Radiology as a Data Analyst/SAS Programmer working primarily with Dr. Ammar Sarwar on funded research projects. Jin graduated from Boston University School of Public Health in

May 2016, and worked at BWH and the Massachusetts Department of Public Health before coming to BIDMC. He enjoys the challenges of data analysis and programming but when he's not working, he enjoys cooking, traveling and playing video/board games. Fluent in English and Korean, Jin can be reached at 4-2783.

REMINDER: Updated Radiology Technologist Rosters & Staff Posters are available on InfoRadiology in pdf format for viewing, downloading, and printing.

Log in to the portal:

https://portal.bidmc.org/

If you don't already have InfoRadiology displayed in

My Applications, click on the **Applications** tab and then under

Clinical, click on **Inforadiology**. Log into Inforadiology, click on **Staff Posters Tab** to view/download/print the most current Tech Rosters, etc.

Managers: Please contact Michael Larson at <u>mlarson1@bidmc.harvard.edu</u> to update your rosters and staff posters

ANNUAL SERVICE AWARDS FOR RADIOLOGY EMPLOYEES CELEBRATED IN 2017

On Wednesday, May 10th, BIDMC held the annual Employee Service Award Recognition event at Alden Castle to honor employees who reached their 20-50 years of service milestones and we in Radiology had our own breakfast celebration in Shaipro-10 to honor all of our awardees celebrating their anniversaries ranging from 5 to 35 years. Congratulations to all!



5 years

Patrick Averill – US
Lisa Benevides – MRI
Christopher Burgos - Dx
Christopher Clarke - CT
(Chestnut Hill)
Emily Dockham - US
Emelia Johnson – MRI
Rashmi Mehta, MD - Br
Koenraad Mortele, MD - MRI
Jordana Phillips, MD - Br
Michael Plum – MRI
Juliah Polito – US
Katrina Roscia – MRI
Elizabeth Silva – MRI
Josmar Silva - Dx

10 years

Ann Marie Baggs - Br/Dx (Chestnut)
Laurie Bucci - Dx
Nicholas Bucci - Dx
Isaac Dube - Dx
Cheryl Egan - Bone Density/Dx
(1101 Beacon St)
Karen Gardner - RN
Veronica Gonzales - Nuc
Kenneth Lee – VIR
Diana Litmanovich, MD - Cardio
Hazel Malolos - RN
Tiffany Marino – Dx

Delnise Mendes – Dx
Sheila Nadeau - US
Sue Nagle - MRI
Joanne Picazio - US
Dean Rodman, MD - Nuc [BID-N]
Sara Ross - Dx
Lauren Shanbrun - Nuc
Joaquin Thomas - Dx
Shambhavi Venkataraman, MD - Br
Denis Vigneault - Dx
Kali Wilson - VIR
Alicia Zaske - Dx

15 years

Kathryn Awalt - US Peggy Carr - Informatics Jason Chagnon - CT James Cooney - CT Saliha Gardner - Support Svcs Lekisha Hamilton - Dx Nancy Hermanns - CT Stephen Kirkpatrick - Dx Michael Larson - Media Lab Eddy Louis - Dx Paul McDonald - MRI Maryellen O'Rourke - CT Patricia Peters - CT Kerin Rogers - RN Carlos Silva - CT Danielle Toomey - Dx Jean Wall - Dx Stephen Warren - Dx

20 years

Elizabeth Browning - MRI Jeff English - Nuc Dana Lagrotteria - US Tanya Martinez - CT

25 years

Ginny Benway - VIR Vassilios Raptopoulos, MD - CT

30 years

Ann Marie Cathcart - RN Brian Deedy - Dx Peggy Newman - US Milton Thomas - MRI

35 years

Maryellen Johnson-Devaney - RN Brian Deedy - Dx Peggy Newman - US Norma Estwick - Image Archives

ANNUAL SERVICE AWARDS FOR RADIOLOGY EMPLOYEES CELEBRATED IN 2017



Dx Director Betsy Grady and Sr. Operations Director Donna Hallett extend their appreciation to Dx Imaging staff (L to R): Dennis Vigneault, Betsy, Steve Warren, Isaac Dube, Sara Ross, Delnise Mendes, Jean Wall, Nick Bucci, Lekisha Hamilton and Donna.



CT Director Kelly Hart and Sr. Operations Director Donna Hallett extend their apprecition to CT staff (L to R): Kelly, Patricia Peters, James Cooney, Carlos Silva, Maryellen O'Rourke and Donna.



MRI Technical Director Ines Cabral-Goncalves and Sr. Operations Director Donna Hallett extend their apprecition to MRI staff (L to R): Ines, Elizabeth Silva, Katrina Roscia Marshall, Michael Plum, Emilia Johnson, Suzanne Nagle and Donna.



Informatics Director Phil Purvis and Peggy Carr



US Manager Bernie Kennedy and Joanne Picazio



1101 Beacon St. Practice Manager Jane Corey and Cheryl Egan



Radiology Chair Jonathan Kruskal and Michael Larson





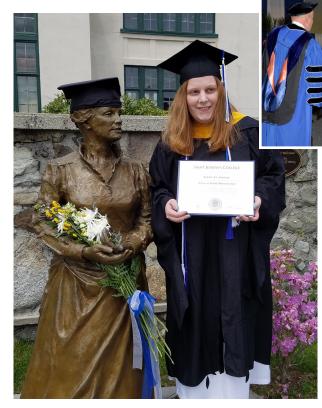
Priscilla J. Slanetz, MD, MPH, FACR, Director

RESIDENCY PROGRAM NEWS

Please join me in congratulating **Tabitha** Fineberg our Education Program Manager who was awarded a Master's in Healthcare Administration from St. Joseph's College of Maine, May 13, 2017. Tabitha joined BIDMC in October 2016 and she was able to go back to school while working fulltime as her program was pursued via an online platform

and took less than 1 year (only 50 weeks) to complete. Her thesis, Creating success and retention through the development of a residency and fellowship program coordinator training manual was begun when she worked at Boston Medical Center and also led to her presentation at the Association of American Medical Colleges last year (see below). Please see her latest publication on a new residency tool under Pub Callout on pg 17). Tabitha is currently working to mentor other coordinators both here at BIDMC and at the regional level.

In addition to congratulating her on her graduation, I also think this is a good opportunity to note how such an academic background enables her to train other program coordinators beyond BIDMC in the same way that our teaching tips also help other academic physicians to improve their teaching skills.



Currently, Tabitha is working on several projects centered around burnout of program coordinators and residency interview techniques. The latter is coming out soon in Otolaryngology-Head and Neck Surgery entitled, *The interactive candidate* assessment tool: A new way to interview residents. Don't hesitate to contact Tabitha at tfineber@bidmc.harvard.edu if you are interested



Customized learning for MS-4s during electives outside of their chosen specialty

Tabitha Fineberg, BSHA^{1,2}, Jessica Levi, MD¹, Punam Patel, BA¹, and Kenneth Grundfast, MD

¹Boston University School of Medicine, Boston, MA - ²Harvard Medical School, Boston, MA,



The Challenge

References

Examples with Specialty-Specific Goals Created by MS-4s

Example 1:
Molly was intending to match to a residency in Ob-Gn. With advice from a faculty member, she agained to learn about orloadyingsic conditions that are exacer based dating pregnancy. She also wasted them also the shadown of the conditions of medications most often prescribed or recommended for the otolary proglogic disorders that occur commonly during pregnancy.



Radiology Residency Program:

Teaching Tips: Reflections on the 2017 AUR Annual Meeting



Anu Shenoy-Bhangle, MD, Assoc. Director

The annual meeting of the Association of University Radiologists offers incredible opportunities for the development of teaching skills, mentoring, and networking. This year, the meeting focused on leading change and adding value. The program offered a wide array of sessions ranging from instilling resiliency in our learners and developing

teaching skills to enhancing leadership skills and expanding research abilities. In addition, the peer observation program was offered to all faculty and the mentoring program was expanded to include an evening of speed mentoring. Finally, there were multiple opportunities for networking.

Reflections from a few of our local attendees include:

"This was my first time attending the AUR meeting, and despite the fact that I was able to attend for just 2 days, I came back with a wealth of knowledge supplemented by excellent networking!"

"Some of the presentations that caught my attention included a talk on including a robust Resident Leadership curriculum during residency whereby residents felt more confident about assuming leadership roles early on in their career. Another group discussed how training interns via an online training module (with a pre and a post-test capability) for improving physician knowledge of radiology ordering as a part of Internship orientation helped educate interns on commonly encountered issues in ordering imaging studies and identify specific areas of knowledge deficiencies with the goal to

reducing ordering errors and decreasing the number of phone calls disrupting daily workflow".

"On a different note, from the ABR update session, here are some numbers to share. For those interested in pursuing IR, currently there are 61 accreditated programs in the country for the integrated IR pathway, 9 for the independent pathway and 50 for ESIR with additional pending applications for each of the above described pathways".

"I attend the meeting every year and absolutely love the numerous opportunities to collaborate and network with colleagues passionate about education. This meeting has something for everyone, but I particularly enjoyed the session on resiliency where speakers shared their thoughts on how to become more resilient – optimism, perseverance, and willingness to adapt to change! The highlight of the session for me was when a well-respected leader in our field shared his failures along his path to success, something none of us typically speak about."

"The best part of this meeting is the openness and willingness of all attendees to collaborate on projects and share ideas and best practices. For anyone interested in pursuing a career in medical education, I highly recommend becoming involved."

If you are inspired by the testimony of your colleagues, consider attending next year's meeting to be held on April 9-12, 2018 in Nashville, TN. Depending on your specific interests, you may also want to join ACER, AMSER, RASHR, or RRA, the various alliances of the AUR focused on clinician educators, medical students, and research, respectively".



Left: Vice Chair for Academic Affairs **Debbie Levine** accepted the Chapter Membership Award on behalf of the Massachusetts Radiological Society. This award recognizes and rewards chapters for their advocacy of radiologists at the local level. Points are bestowed for formulating new goals for member support at the chapter level, persistent efforts in retaining existing members, efforts for reaching out to non-members, and communications to all

BIDMC staff were also recognized at this year's ACR meeting: Cardiothoracic Imager **Paul Spirn** was inducted as Fellow of the American College of Radiology

Amy K. Patel (joining BIDMC in Breast Imaging, July 2017) was awarded the RADPAC Achievement Award



members.

PUBLICATION CALL OUT: Tabitha Fineberg, Education Program Mgr on a new residency tool

http://journals.sagepub.com/doi/abs/10.1177/0194599817699374?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed&

Clinical Techniques and Technology

The Interactive Candidate Assessment Tool: A New Way to Interview Residents

Michael P. Platt, MD¹, Vafa Akhtar-Khavari, EdM², Rafael Ortega, MD², Jeffrey I. Schneider, MD³, Tabitha Fineberg, MHA¹, and Kenneth M. Grundfast, MD¹



Otolaryngology—
Head and Neck Surgery
I-4
© American Academy of
Otolaryngology—Head and Neck
Surgery Foundation 2017
Reprints and permission:
sagepub.com/journalsPermissions.nav
DOI: 10.1177/0194599817699374
http://otojournal.org

\$SAGE



Tabitha Fineberg, MHA Education Program Manager, Radiology

No sponsorships or competing interests have been disclosed for this article.

Abstract

The purpose of the residency interview is to determine the extent to which a well-qualified applicant is a good fit with a residency program. However, questions asked during residency interviews tend to be standard and repetitive, and they may not elicit information that best differentiates one applicant from another. The iCAT (interactive Candidate Assessment Tool) is a novel interview instrument that allows both interviewers and interviewees to learn about each other in a meaningful way. The iCAT uses a tablet computer to enable the candidate to select questions from an array of video and nonvideo vignettes. Vignettes include recorded videos regarding some aspect of the program, while other icons include questions within recognizable categories. Postinterview surveys demonstrated advantages over traditional interview methods, with 93% agreeing that it was an innovative and effective tool for conducting residency program interviews. The iCAT for residency interviews is a technological advancement that facilitates in-depth candidate assessment.

Keywords

resident interview; resident education, resident applications

Received November 10, 2016; revised January 10, 2017; accepted February 22, 2017.

he residency candidate interviews are an essential component to a successful match for both applicants and programs. The interview process attempts to measure personal characteristics beyond what can be gleaned from the Electronic Residency Application Service (ERAS) application. However, only 17 of 34 studies found the residency interview to be predictive of subsequent clinical performance in residency.¹

Standard questions asked during both structured and unstructured interviews do not necessarily elicit information that differentiates one applicant from another. When an interview largely comprises commonly asked questions, applicants tend to give predictable prepared answers in a way that reveals little that is distinguishing about the applicant. While significant resources are committed to the interview process, the extent to which a well-qualified applicant is a good fit with a residency program remains variable. Improvement in the residency interview process is needed to provide a better match between applicants and programs. This project aims to present a novel method for structured residency interviews that allows programs to better differentiate the attitudes and mind-set of prospective residency applicants while introducing them to leaders at the medical center.

Methods

The iCAT (interactive Candidate Assessment Tool) is a tablet-based program that was designed using Prezi software (Prezi, San Francisco, California). During otolaryngology residency interviews, the candidate uses a handheld tablet to navigate among options on a homepage, thus essentially driving the content and pace of his or her own interview. Twenty video clips were prerecorded by key leaders from the medical center, including an emergency medicine physician, chair of the Graduate Medical Education Committee, chief executive officer of the hospital, dean of the medical school, and even a patient. Each video has 2 components: education about a strength of the program and a question pertaining to the speaker's expertise. Twenty static written questions and pictures were in categories such as anatomy, ethics, and Boston trivia (**Figure 1**). Also, there was an

Conclusion

The iCAT is a novel interview platform that allows more in-depth engagement and assessment of interviewees compared with a traditional interview. The use of recorded videos and selected questions standardizes content while providing applicants with additional information about the program. Longer term data on candidate success in residency may demonstrate the additional value of using this technology in the residency interview process.

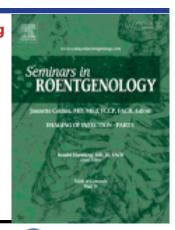
Corresponding Author:

Michael P. Platt, MD, Department of Otolaryngology—Head and Neck Surgery, Boston University School of Medicine, 820 Harrison Avenue, FGH Building, 4th Floor, Boston, MA 02118, USA. Email: Michael.platt@bmc.org PUBLICATION CALL OUT: Seminars in Radiology Part 1 of 2 edited by Ron Eisenberg and featuring BIDMC faculty and alumni (6 out of 8 articles)

Seminars in Radiology
January 2017 Volume 52, Issue 1, p1-62
Imaging of Infection - Part 1
Edited by Ronald Eisenberg



http://www.seminarsinroentgenology.com/current







Behroze Vachha, MD, PhD,*,† Gul Moonis, MD,‡ and Andrei Holodny, MD*

Bacterial Infections

I maging findings for the various typical bacteria infecting the central nervous system (CNS) are nonspecific and require correlation with laboratory tests to establish a definitive diagnosis. Mycobacterial and spirochetal infections have a clinical presentation and imaging appearance different from those of typical bacteria. Therefore, the following sections first discuss the various stages of pyogenic infections that occur with most bacteria, followed by a description of mycobacterial (tuberculosis) and spirochetal (Lyme disease) infections.

enhancement. If the diagnosis is made at this stage, the patient can be treated effectively with antibiotics.

Late cerebritis develops within 1-2 weeks of infection. On CT, there is now thick, irregular contrast enhancement at the edges of the lesion. On MRI, FLAIR and T2W images demonstrate increased signal centrally within the lesion, which is surrounded by a thick, irregular enhancing rim and vasogenic edema. Diffusion-weighted imaging (DWI) may show increased signal within the center of the lesion. There is no discrete low-signal capsule on T2W images at this stage, unlike the appearance in mature abscesses. Although an infection at this stage also can be treated with antibiotics, surgery is often performed because the imaging appearance of late cerebritis



Seminars in

ROENTGENOLOGY

Imaging of Head and Neck Infections: Diagnostic Considerations, Potential Mimics, and Clinical Management



Jason R. Chalifoux, MD, PhD, Behroze Vachha, MD, PhD, and Gul Moonis, MD

Emergency head and neck imaging studies often elicit a unique apprehension because of the complex anatomy and subtle imaging findings. In this article, we present commonly encountered head and neck infections, with an emphasis on clinical presentation, imaging characteristics, potential mimics of infection, and clinical management.

Most people with sinusitis would not benefit from imaging and they should be treated conservatively. However, if a complication of ABRS (orbital, intracranial, or soft tissue involvement) is suspected or if alternative diagnoses including malignancy are considered as a cause of patient symptoms, contrast-enhanced computed tomography (CECT) should be performed.² Imaging findings of ABRS include sinonasal mucosal thickening, aerosolized secretions, and air-fluid levels (which also can be seen in intubated patients). Magnetic





Pneumonia

Elisa Franquet, MD



Introduction

Pneumonia continues to be a significant global health problem, remaining among the top 10 causes of death globally and in the US, especially among elderly patients. The diagnosis of pneumonia relies mainly on clinical symptoms and imaging findings. Despite imaging studies playing an important role in early diagnosis, laboratory confirmation can be obtained in only 30%-70% of cases even after a full microbial battery is performed. Invasive procedures, such as bronchoscopy with lavage and biopsy, are limited to hospital-associated infections and immunocompromised patients.

Imaging Modalities

Chest radiography (CR) is considered the modality of choice for detecting new infiltrates in clinically suspected pneumonia. This modality provides information about localization, extent, and prognosis, as well as excluding other causes of disease and at times even suggesting an etiologic agent. However, the specificity of CR is low, and interpretation agreement among

with suspected tuberculosis (TB) and parenchymal abnormalities in up to 50% of neutropenic patients with normal CR and persistent fever refractory to empiric treatment. Nevertheless, CR is still the initial diagnostic imaging procedure because of its widespread availability and its low cost and radiation exposure.

The Different Faces of Pneumonia

The classic radiological patterns of pneumonia are lobar consolidation, bronchopneumonia, and interstitial consolidation. The radiological findings on CR and CT and the most common organisms for each pattern are summarized in Table 1. 10,16,17

The nodular pattern refers to the presence of multiple rounded opacities (2-10 mm) in a widespread but not necessarily uniform distribution. ¹⁸ In an acute clinical setting, centrilobular nodules of soft tissue attenuation are likely due to infection. The most common cause is endobronchial spread of bacterial, mycobacterial, or fungal organisms, and this appearance represents an early manifestation of bronchopneumonia.

ELSEVIER

Seminars in

ROENTGENOLOGY

Cardiac Infections



C.A. Ridge, FFRRCSI,* D. Litmanovich, MD,[†] and R.L. Eisenberg, MD JD[†]

Introduction

ardiac infections comprise a broad range of clinical and radiologic entities, which can involve the pericardium, myocardium, valves, or endocardium. They can arise in these cardiac structures or result from spread of infection from contiguous structures or implanted material (vascular grafts and prosthetic cardiac valves).

Pericarditis

Pericarditis consists of inflammation of the 2 thin fibrous layers of pericardium that surround the heart. It typically affects men, with the highest incidence between 16 and 65 years of age. Acute pericarditis accounts for 5% of emergency department

(TTE).⁶ If echocardiography is not possible because of a poor echocardiographic window or a suspected traumatic, cross-sectional imaging with computed tomography (CT)⁷ or cardiac magnetic resonance should be considered.⁶ Pericarditis and its complications may be imaged with cardiac CT if echocardiography is nondiagnostic (eg, in emphysema, obesity, or recent cardiac surgery); more commonly, pericarditis may be identified on CT performed for another indication.

The normal pericardium is a thin (1-2 mm) line of soft-tissue attenuation lining the epicardial fat around the heart (Fig. 1).^{6,8} Pericardial thickening (>4 mm) is a nonspecific finding that may be seen in noninfectious pericarditis, after cardiac surgery, and in the setting of pericardial malignancy. Although CT may not clearly distinguish a small pericardial effusion from thickened pericardium because of volume



Imaging of Osteomyelitis of the Extremities



Usman Anwer, MD,* and Corrie M. Yablon, MD[†]

Introduction

Steomyelitis is defined as inflammation of bone, which is typically infectious in etiology. Bacteria can seed bone directly from an adjacent ulcer, through direct inoculation by penetrating trauma, or by hematogenous spread of infection from another source. Direct spread usually infects bone with multiple organisms. *Staphylococcus aureus* is most commonly isolated from hematogenous infections of bone. The infecting agent triggers an inflammatory response consisting of bony hyperemia, edema, and neutrophilic infiltration. The hyperemia causes bone demineralization, seen as a subtle lucency and loss of the cortical contour on radiographs. The neutrophilic infiltrate destroys bony trabeculae, causing osteolysis and replacing the normal fatty marrow to produce the imaging appearance of acute osteomyelitis. If left untreated, the infection progresses and may lead to necrotic bone (seques-

gas. Computed tomography (CT) shows subtle cortical erosions earlier than radiographs and better demonstrates sequestra. Intravenous contrast can be used to outline soft tissue abscesses. In early osteomyelitis, where radiographs and even CT fail to demonstrate osteolysis but osteomyelitis is suspected clinically, magnetic resonance imaging (MRI) is often obtained for diagnosis. MRI accurately evaluates the extent of bone involvement if osteomyelitis already has been diagnosed. The typical MR findings of osteomyelitis include edema and enhancement of bone marrow, along with replacement of bright fatty marrow signal on T1 images with signal closer in intensity to muscle.⁵ T2 marrow hyperintensity and enhancement, as well as T2 hyperintense periosteal edema, may be reactive to adjacent soft tissue infection. Thus, T1 marrow replacement is the most specific sign of marrow infection.⁵ Intravenous contrast is not required for diagnosis but plays a role in evaluating the



ELSEVIER

Seminars in

ROENTGENOLOGY

Imaging of Musculoskeletal Soft Tissue Infection



Ching-Di Chang, MD,* and Jim S. Wu, MD[†]

Introduction

Musculoskeletal soft tissue infections account for over 2 million emergency department visits in the United States annually, mostly related to cellulitis or soft tissue abscess. Infection of musculoskeletal soft tissues can be classified by the following anatomic structures they involve: (1) skin and subcutaneous tissues (cellulitis and abscess), (2) fascia (necrotizing fasciitis), (3) muscle (infectious myositis and pyomyositis), (4) bursae (infectious bursitis), and (5) tendons and tendon sheaths (suppurative tenosynovitis). It is important to describe the location and appearance of the infection as they have important treatment implications. Some conditions can be treated with antibiotics alone, whereas others require drainage or surgery. This characterization is best achieved with imaging.

tests can show leukocytosis and elevation of C-reactive protein, erythrocyte sedimentation rate, and procalcitonin. ⁹

Imaging Modalities

With soft tissue infections, management depends to a large extent on the location and extent of involvement, which can be best assessed on imaging. Radiographs should be the first-line modality. They are relatively inexpensive, quick to perform, and can identify foreign bodies, osseous involvement, soft tissue swelling, and soft tissue gas as in necrotizing fasciitis (Fig. 1A). Ultrasound (US) can demonstrate fluid collections and is helpful in distinguishing between cystic and solid lesions. This can be especially important when searching for an abscess collection. ¹⁰ US also can be useful in the assessment of foreign bodies, which can be missed on computed

2017 BIDMC Radiology Publications - A PubMed search for new BIDMC publications is made each month; however, if we miss your paper, please send the reference to dwolfe@bidmc.harvard.edu. Note that 1) Epub dates are included only in publications where the Epub and paper publication dates occur in different years, i.e., Epub in 2015 and paper publication in 2016; and 2) doi addresses are only included until citations are updated with hard copy page citations [highlighted in yellow, new this calendar year]

<u>Alessandrino F, Strickland C, Mojtahed A, Eberhardt SC, Mortele KJ.</u> Clinical and cross-sectional imaging features of spontaneous pancreatic pseudocyst-portal vein fistula. Clin Imaging. 2017 Apr 1;44:22-26. PMID: 28407511.

Amabile C, **Ahmed M**, Solbiati L, Meloni MF, Solbiati M, Cassarino S, Tosoratti N, Nissenbaum Y, Ierace T, **Goldberg SN**. Microwave ablation of primary and secondary liver tumours: ex vivo, in vivo, and clinical characterisation. Int J Hyperthermia. 2017 Feb;33(1):34-42. PMID: 27443519.

Amir R, Knio ZO, Mahmood F, Oren-Grinberg A, Leibowitz A, Bose R, Shaefi S, Mitchell JD, **Ahmed M**, Bardia A, Talmor D, Matyal R. Ultrasound as a Screening Tool for Central Venous Catheter Positioning and Exclusion of Pneumothorax. Crit Care Med. 2017 Apr 18. doi: 10.1097/CCM.0000000000002451. PMID: 28422778.

<u>Anderson TJ</u>, <u>Lu N</u>, **Brook OR**. Disease-Specific Report Templates for Your Practice. J Am Coll Radiol. 2017 Feb 17. pii: S1546-1440(16)31376-X. PMID: 28223115.

Anderson ME, **Wu JS**, Vargas SO. CORR (*) Tumor Board: Is There Benefit to Free Over Pedicled Vascularized Grafts in Augmenting Tibial Intercalary Allograft Constructs? Clin Orthop Relat Res. 2017 May;475(5):1319-1321. PMID: 28281138.

Asch E, Shah SH, **Berkowitz S**, **Mehta S**, **Eisenberg RL**, <u>Jayadevan R</u>, <u>Connolly C</u>, **Slanetz PJ**. Resident Idea System: A Novel Tool to Engage Trainees in Quality Improvement at the Institutional Level. J Am Coll Radiol. 2017 Feb;14(2):256-261. PMID: 27815057.

Basha TA, Akçakaya M, Liew C, Tsao CW, Delling FN, Addae G, Ngo L, **Manning WJ**, Nezafat R. Clinical performance of high-resolution late gadolinium enhancement imaging with compressed sensing. J Magn Reson Imaging. 2017 Mar 16. doi: 10.1002/jmri.25695. PMID: 28301075.

Basha TA, Tang MC, Tsao C, Tschabrunn CM, Anter E, **Manning WJ**, Nezafat R. Improved dark blood late gadolinium enhancement (DB-LGE) imaging using an optimized joint inversion preparation and T(2) magnetization preparation. Magn Reson Med. 2017 Apr 5. doi: 10.1002/mrm.26692. PMID: 28382726.

<u>Becker-Weidman D</u>, Floré B, **Mortelé KJ**. Xanthogranulomatous pancreatitis: A review of the imaging characteristics of this rare and often misdiagnosed lesion of the pancreas. Clin Imaging. 2017 May 23;45:12-17. doi: 10.1016/j.clinimag.2017.05.016. [Epub ahead of print] PubMed PMID: 28554050.

Bolan PJ, Kim E, Herman BA, Newstead GM, Rosen MA, Schnall MD, **Pisano ED**, Weatherall PT, Morris EA, Lehman CD, Garwood M, Nelson MT, Yee D, Polin SM, Esserman LJ, Gatsonis CA, Metzger GJ, Newitt DC, Partridge SC, Hylton NM; ACRIN Trial team ISPY-1 Investigators. MR spectroscopy of breast cancer for assessing early treatment response: Results from the ACRIN 6657 MRS trial. J Magn Reson Imaging. 2016 Dec 16. doi: 10.1002/jmri.25560. PMID: 27981651.

<u>Boos J.</u> **Brook A**, Chingkoe CM, Morrison T, **Mortele K**, **Raptopoulos V**, Pedrosa I, **Brook OR**. MDCT vs. MRI for incidental pancreatic cysts: measurement variability and impact on clinical management. Abdom Radiol (NY). 2017 Feb;42(2):521-530. PMID: 27581431.

Boos J, Fang J, Heidinger BH, **Raptopoulos V**, **Brook OR**. Dual energy CT angiography: pros and cons of dual-energy metal artifact reduction algorithm in patients after endovascular aortic repair. Abdom Radiol (NY). 2017 Mar;42(3):749-758. PMID: 27896386.

Boos J, Fang J, Snell A, Hallett D, Siewert B, Eisenberg RL, Brook OR. Electronic Kiosks for Patient Satisfaction Survey in Radiology. AJR Am J Roentgenol. 2017 Mar;208(3):577-584. PMID: 28004975.

<u>Boos J</u>, **Raptopoulos V**, **Brook A**, **Brook OR**. Split-bolus intravenous contrast material injection vs. single-bolus injection in patients following endovascular abdominal aortic repair (EVAR). Abdom Radiol (NY). 2017 Apr 26. doi: 10.1007/s00261-017-1154-z. PMID: 28447108.

Brook OR, **Siewert B**, **Weinstein J**, **Ahmed M**, **Kruskal J**. Measuring and improving the patient experience in radiology. Abdom Radiol (NY). 2017 Apr;42(4):1259-1267. PMID: 27853849.

Bui AH, Roujol S, Foppa M, Kissinger KV, Goddu B, Hauser TH, Zimetbaum PJ, Ngo LH, **Manning WJ**, Nezafat R, Delling FN. Diffuse myocardial fibrosis in patients with mitral valve prolapse and ventricular arrhythmia. Heart. 2017 Feb;103(3):204-209. PMID: 27515954; PMCID: PMC5237392.

Byrne C, Ursin G, Martin CF, Peck JD, **Cole EB**, Zeng D, Kim E, Yaffe MD, Boyd NF, Heiss G, McTiernan A, Chlebowski RT, Lane DS, Manson JE, Wactawski-Wende J, **Pisano ED**. Mammographic Density Change With Estrogen and Progestin Therapy and Breast Cancer Risk. J Natl Cancer Inst. 2017 Sep 1;109(9). doi: 10.1093/jnci/djx001. PMID: 28376149.

<u>Chang CD</u>, **Wei J**, Goldsmith JD, Gebhardt MC, **Wu JS**. MRI guided needle localization in a patient with recurrence pleomorphic sarcoma and post-operative scarring. Skeletal Radiol. 2017 Jul;46(7):975-981. PMID: 28280850.

Chang CD, **Wu JS**. MR Imaging Findings in Heel Pain. Magn Reson Imaging Clin N Am. 2017 Feb;25(1):79-93. Review. PMID: 27888853.

Chang CD, **Wu JS**. Imaging of Musculoskeletal Soft Tissue Infection. Semin Roentgenol. 2017 Jan;52(1):55-62. PMID: 28434505.

Chang JD, **Manning WJ**, Ebrille E, Zimetbaum PJ. Tricuspid Valve Dysfunction Following Pacemaker or Cardioverter-Defibrillator Implantation. J Am Coll Cardiol. 2017 May 9;69(18):2331-2341. doi: 10.1016/j.jacc.2017.02.055. Review. PMID: 28473139.

Chen CK, Boos J, Sarwar A, O'Bryan-Alberts B, Ahmed M, Brook OR. Observation time after outpatient non-arterial interventional procedures: standards, safety, and outcomes. Abdom Radiol (NY). 2017 May;42(5):1571-1578. PMID: 28097389.

Dai W, Fong T, Jones RN, Marcantonio E, Schmitt E, Inouye SK, **Alsop DC**. Effects of arterial transit delay on cerebral blood flow quantification using arterial spin labeling in an elderly cohort. J Magn Reson Imaging. 2017 Feb;45(2):472-481. Epub 2016 Jul 7. PMID: 27384230; PMCID: PMC5219871.

Dillon ST, Vasunilashorn SM, Ngo L, Otu HH, Inouye SK, Jones RN, **Alsop DC**, Kuchel GA, Metzger ED, Arnold SE, Marcantonio ER, Libermann TA. Higher C-Reactive Protein Levels Predict Postoperative Delirium in Older Patients Undergoing Major Elective Surgery: A Longitudinal Nested Case-Control Study. Biol Psychiatry. 2017 Jan 15;81(2):145-153. Epub 2016 Mar 25. PMID: 27160518; PMCID: PMC5035711.

Donohoe KJ, Cohen EJ, Giammarile F, Grady E, Greenspan BS, Henkin RE, Millstine J, Smith GT, Srinivas S, Kauffman J, Ahuja S. Appropriate Use Criteria for Bone Scintigraphy in Prostate and Breast Cancer: Summary and Excerpts. J Nucl Med. 2017 Apr;58(4):14N-17N. PMID: 28373397.

Eisenberg RL, <u>Heidinger BH</u>. Low Yield of Chest Radiography in General Inpatients and Outpatients with "Positive PPD" Results in a Country with Low Prevalence of TB. Acad Radiol. 2017 Jan 30. pii: S1076-6332(17)30014-4. doi: 10.1016/j.acra.2016.12.012. PMID: 28153574.

Esparaz AM, **Ahmed M**. Resolution of Metallic Biliary Stent Allergic Reaction After Partial Stent Removal in a Patient with Nickel Sensitivity. Cardiovasc Intervent Radiol. 2017 Feb 7. doi: 10.1007/s00270-017-1596-2. PMID: 28175974.

Expert Panel on Breast Imaging:., Moy L, Bailey L, D'Orsi C, Green ED, Holbrook AI, Lee SJ, Lourenco AP, Mainiero MB, Sepulveda KA, **Slanetz PJ**, Trikha S, Yepes MM, Newell MS. ACR Appropriateness Criteria(*) Stage I Breast Cancer: Initial Workup and Surveillance for Local Recurrence and Distant Metastases in Asymptomatic Women. J Am Coll Radiol. 2017 May;14(5S):S282-S292. doi: 10.1016/j.jacr.2017.02.009. PMID: 28473085.

Expert Panel on Breast Imaging:., Jokich PM, Bailey L, D'Orsi C, Green ED, Holbrook AI, Lee SJ, Lourenco AP, Mainiero MB, Moy L, Sepulveda KA, **Slanetz PJ**, Trikha S, Yepes MM, Newell MS. ACR Appropriateness Criteria(*) Breast Pain. J Am Coll Radiol. 2017 May;14(5S):S25-S33. doi: 10.1016/j.jacr.2017.01.028. PMID: 28473081.

Expert Panel on Breast Imaging:., Moy L, Heller SL, Bailey L, D'Orsi C, DiFlorio RM, Green ED, Holbrook AI, Lee SJ, Lourenco AP, Mainiero MB, Sepulveda KA, **Slanetz PJ,** Trikha S, Yepes MM, Newell MS. ACR Appropriateness Criteria(*) Palpable Breast Masses. J Am Coll Radiol. 2017 May;14(5S):S203-S224. doi: 10.1016/j.jacr.2017.02.033. PMID: 28473077.

Expert Panel on Breast Imaging:., Lee SJ, Trikha S, Moy L, Baron P, diFlorio RM, Green ED, Heller SL, Holbrook AI, Lewin AA, Lourenco AP, Niell BL, **Slanetz PJ**, Stuckey AR, Vincoff NS, Weinstein SP, Yepes MM, Newell MS. ACR Appropriateness Criteria(*) Evaluation of Nipple Discharge. J Am Coll Radiol. 2017 May;14(5S):S138-S153. doi: 10.1016/j.jacr.2017.01.030. PMID: 28473070.

Expert Panel on Gastrointestinal Imaging:., Fowler KJ, Kaur H, Cash BD, Feig BW, Gage KL, Garcia EM, Hara AK, Herman JM, Kim DH, Lambert DL, Levy AD, Peterson CM, Scheirey CD, Small W Jr, **Smith MP**, Lalani T, Carucci LR. ACR Appropriateness Criteria(*) Pretreatment Staging of Colorectal Cancer. J Am Coll Radiol. 2017 May;14(5S):S234-S244. doi: 10.1016/j.jacr.2017.02.012. PMID: 28473079.

Fang J, Zhang D, Wilcox C, Heidinger B, Raptopoulos V, Brook A, Brook OR. Metal implants on CT: comparison of iterative reconstruction algorithms for reduction of metal artifacts with single energy and spectral CT scanning in a phantom model. Abdom Radiol (NY). 2017 Jan 2. doi: 10.1007/s00261-016-1023-1. [Epub ahead of print] PMID: 28044188.

Gao Y, **Dialani V**, DeBenedectis C, Johnson N, Brachtel E, **Slanetz P**. Apocrine Metaplasia Found at MR Biopsy: Is There Something to be Learned? Breast J. 2017 Jan 12. doi: 10.1111/tbj.12755. PMID: 28079289.

Girard OM, Callot V, Prevost VH, Robert B, Taso M, Ribeiro G, **Varma G**, Rangwala N, **Alsop DC**, Duhamel G. Magnetization transfer from inhomogeneously broadened lines (ihMT): Improved imaging strategy for spinal cord applications. Magn Reson Med. 2017 Feb;77(2):581-591. Epub 2016 Mar 9. PMID: 26959278.

Glanc P, Benacerraf B, Bourne T, Brown D, Coleman BG, Crum C, Dodge J, **Levine D**, Pavlik E, Timmerman D, Ueland FR, Wolfman W, Goldstein SR. First International Consensus Report on Adnexal Masses: Management Recommendations. J Ultrasound Med. 2017 May;36(5):849-863. PMID: 28266033.

Hall FM. Epinephrine-Enhanced Knee Arthrography Revisited. AJR Am J Roentgenol. 2017 Mar;208(3):W131. doi: 10.2214/AJR.16.17268. PMID: 28004968.

Heffernan EJ, Moran DE, Gerstenmaier JF, McCarthy CJ, Hegarty C, **McMahon CJ**. Accuracy of 64-section MDCT in the diagnosis of cruciate ligament tears. Clin Radiol. 2017 Feb 15. pii: S0009-9260(17)30034-X. doi: 10.1016/j.crad.2017.01.006. PMID: 28214478.

Heidinger BH, Anderson KR, Moriarty EM, Costa DB, Gangadharan SP, VanderLaan PA, **Bankier AA**. Size Measurement and T-staging of Lung Adenocarcinomas Manifesting as Solid Nodules ≤30 mm on CT: Radiology-Pathology Correlation. Acad Radiol. 2017 Feb 27. pii: S1076-6332(17)30059-4. doi: 10.1016/j.acra.2017.01.009. PMID: 28256438.

Hochman MG. Preface. MR Imaging of the Foot and Ankle [Special Issue] Magn Reson Imaging Clin N Am. 2017 Feb;25(1):xvii-xviii. doi: 10.1016/j. mric.2016.09.004. PMID: 27888856. [Editorial]

Hochman MG, **Wu JS**. MR Imaging of Common Soft Tissue Masses in the Foot and Ankle. Magn Reson Imaging Clin N Am. 2017 Feb;25(1):159-181. Review. PMID: 27888846.

Hshieh TT, Dai W, Cavallari M, Guttmann CR, Meier DS, Schmitt EM, Dickerson BC, Press DZ, Marcantonio ER, Jones RN, Gou YR, Travison TG, Fong TG, Ngo L, Inouye SK, **Alsop DC**; SAGES Study Group.. Cerebral blood flow MRI in the nondemented elderly is not predictive of post-operative delirium but is correlated with cognitive performance. J Cereb Blood Flow Metab. 2017 Apr;37(4):1386-1397. Epub 2016 Jan 1. PMID: 27401806.

Hsuan HF, Lin YC, Chiu CH, **Ni Mhuircheartaigh J**, Juan YH, Chan YS, **Wu JS**. Posterior cruciate ligament tears in Taiwan: an analysis of 140 surgically treated cases. Clin Imaging. 2016 Sep-Oct;40(5):856-60. PMID: 27179152.

Hughes AJ, DeBuitleir C, Soden P, O'Donnchadha B, Tansey A, Abdulkarim A, **McMahon C**, Hurson CJ. 3D Printing Aids Acetabular Reconstruction in Complex Revision Hip Arthroplasty. Adv Orthop. 2017;2017:8925050. doi: 10.1155/2017/8925050. PMID: 28168060; PMCID: PMC5259605.

Itri JN, Bakow E, Probyn L, Kadom N, Duong PT, Gettle LM, Mendiratta-Lala M, Scali EP, Winokur RS, Zygmont ME, **Kung JW**, Rosenkrantz AB. The Science of Quality Improvement. Acad Radiol. 2017 Mar;24(3):253-262. Review. PMID: 28193375.

Ivanovic AM, <u>Alessandrino F</u>, Maksimovic R, Micev M, Ostojic S, Gore RM, **Mortele KJ.** Pathologic Subtypes of Ampullary Adenocarcinoma: Value of Ampullary MDCT for Noninvasive Preoperative Differentiation. AJR Am J Roentgenol. 2017 Jan 17:W1-W8. doi: 10.2214/AJR.16.16723. PMID: 28095024.

Jain A, Khalid M, Qureshi MM, Georgian-Smith D, Kaplan JA, Buch K, Grinstaff MW, Hirsch AE, **Hines NL**, Anderson SW, Gallagher KM, Bates DDB, Bloch BN. Stereotactic core needle breast biopsy marker migration: An analysis of factors contributing to immediate marker migration. Eur Radiol. 2017 May 19. doi: 10.1007/s00330-017-4851-7. PMID: 28526892.

Jeganathan J, Baribeau Y, Bortman J, Mahmood F, Shnider M, **Ahmed M**, Mashari A, Amir R, Amador Y, Matyal R. Use of 3-Dimensional Printing to Create Patient-Specific Thoracic Spine Models as Task Trainers. Reg Anesth Pain Med. 2017 Mar 3. doi: 10.1097/AAP.0000000000000580. PMID: 28263243.

Johnson SC, Yegul NT, **Balcacer P**. Sonovaginography: A Useful Technique in the Assessment of the Lower Genital Tract. J Ultrasound Med. 2017 May 18. doi: 10.1002/jum.14216. [Epub ahead of print] PubMed PMID: 28516503.

Kelly AM, **Slanetz PJ**. Radiology Education: It Takes a Village! Acad Radiol. 2017 Apr 14. pii: S1076-6332(17)30139-3. PMID: 28416277. [Editorial]

Kilcoyne A, **Shenoy-Bhangle AS**, Roberts DJ, Sisodia RC, Gervais DA, Lee SI. MRI of Placenta Accreta, Placenta Increta, and Placenta Percreta: Pearls and Pitfalls. AJR Am J Roentgenol. 2017 Jan;208(1):214-221. PMID: 27762597.

Kressel HY. Editor's Recognition Awards. Radiology. 2017 Jan;282(1):1. PMID: 28005513.

Kressel HY. Radiology Editorial Board 2017. Radiology. 2017 Jan;282(1):1. PMID: 28005509.

Kressel HY. Setting Sail: 2017. Radiology. 2017 Jan;282(1):4-6. PMID: 28005504.

Kressel HY. Management Matters. Radiology. 2017 Feb;282(2):310. PMID: 28099110.

Kruskal JB, Berkowitz S, Geis JR, Kim W, Nagy P, Dreyer K. Big Data and Machine Learning-Strategies for Driving This Bus: A Summary of the 2016 Intersociety Summer Conference. J Am Coll Radiol. 2017 Mar 29. pii: S1546-1440(17)30199-0. doi: 10.1016/j.jacr.2017.02.019. PMID: 28372961.

<u>Kumar G</u>, **Goldberg SN**, <u>Wang Y</u>, Velez E, Gourevitch S, Galun E, **Ahmed M**. Hepatic radiofrequency ablation: markedly reduced systemic effects by modulating periablational inflammation via cyclooxygenase-2 inhibition. Eur Radiol. 2017 Mar;27(3):1238-1247. PMID: 27287478.

Larson DB, Donnelly LF, Podberesky DJ, Merrow AC, Sharpe RE Jr, **Kruskal JB**. Peer Feedback, Learning, and Improvement: Answering the Call of the Institute of Medicine Report on Diagnostic Error. Radiology. 2017 Apr;283(1):231-241. PMID: 27673509.

Lourenco AP, DiFlorio-Alexander RM, **Slanetz PJ**. Breast Density Legislation in New England: A Survey Study of Practicing Radiologists. Acad Radiol. 2017 May 8. pii: S1076-6332(17)30174-5. doi: 10.1016/j. acra.2017.03.009. PMID: 28495213.

Luk L, **Shenoy-Bhangle AS**, Jimenez G, Ahmed FS, Prince MR, Samstein B, Hecht EM. Additive value of non-contrast MRA in the preoperative evaluation of potential liver donors. Clin Imaging. 2017 Jan - Feb;41:132-136. PMID: 27840265.

MacMahon H, Naidich DP, Goo JM, Lee KS, Leung AN, Mayo JR, Mehta AC, Ohno Y, Powell CA, Prokop M, Rubin GD, Schaefer-Prokop CM, Travis WD, Van Schil PE, **Bankier AA**. Guidelines for Management of Incidental Pulmonary Nodules Detected on CT Images: From the Fleischner Society 2017. Radiology. 2017 Feb 23:161659. doi: 10.1148/radiol.2017161659. PMID: 28240562.

McMahon CJ, Ramappa A, Lee K. The Extensor Mechanism: Imaging and Intervention. Semin Musculoskelet Radiol. 2017 Apr;21(2):89-101. PMID: 28355673.

McGillen KL, <u>Boos J</u>, Nathavitharana R, **Brook A**, **Sun MR**, **Siewert B**, **Raptopoulos V**, **Kane R**, **Sheiman R**, **Brook OR**. Diagnostic yield and clinical impact of microbiologic diagnosis from CT-guided drainage in patients previously treated with empiric antibiotics. Abdom Radiol (NY). 2017 Jan;42(1):298-305. PMID: 27654990.

Mele A, Mehta P, **Slanetz PJ, Brook A**, Recht A, Sharma R. Breast-Conserving Surgery Alone for Ductal Carcinoma In Situ: Factors Associated with Increased Risk of Local Recurrence. Ann Surg Oncol. 2017 May;24(5):1221-1226. PMID: 27900632.

Miller MM, Ridge CA, **Litmanovich DE**. Computed Tomography Angiographic Assessment of Acute Chest Pain. J Thorac Imaging. 2017 May;32(3):137-150. PMID: 28419022.

Murphey MD, Roberts CC, Bencardino JT, Appel M, Arnold E, Chang EY, Dempsey ME, Fox MG, Fries IB, Greenspan BS, **Hochman MG**, Jacobson JA, Mintz DN, Newman JS, Rosenberg ZS, Rubin DA, Small KM, Weissman BN. ACR Appropriateness Criteria Osteonecrosis of the Hip. J Am Coll Radiol. 2016 Feb;13(2):147-55. PMID: 26846390.

Murphy IG, NiMhurchu E, Gibney RG, **McMahon CJ**. MRI-directed cognitive fusion-guided biopsy of the anterior prostate tumors. Diagn Interv Radiol. 2017 Jan 11. doi: 10.5152/dir.2016.15445. PMID: 28074780.

Nakamori S, Alakbarli J, Bellm S, Motiwala SR, Addae G, **Manning WJ**, Nezafat R. Native T(1) value in the remote myocardium is independently associated with left ventricular dysfunction in patients with prior myocardial infarction. J Magn Reson Imaging. 2017 Feb 2. doi: 10.1002/jmri.25652. PMID: 28152237.

Nemec U, Heidinger B, Sokas C, Chu L, **Eisenberg RL**. Diagnosing Sarcopenia on Thoracic Computed Tomography: Quantitative Assessment of Skeletal Muscle Mass in Patients Undergoing Transcatheter Aortic Valve Replacement. Acad Radiol. 2017 Mar 29. pii: S1076-6332(17)30119-8. doi: 10.1016/j.acra.2017.02.008. PMID: 28365235.

Nguyen Q, Mehta SV, Fang J, Sheiman R, Kane R, Ahmed M, Sarwar A, Siewert B, Brook OR. Thirty-day emergency room visits and hospital admissions after outpatient non-vascular image-guided procedures. Abdom Radiol (NY). 2017 May 2. doi: 10.1007/s00261-017-1153-0. PMID: 28466184.

Ni Mhuircheartaigh JM, **Lee KS**, Curry MP, Pedrosa I, **Mortele KJ**. Early Peribiliary Hyperenhancement on MRI in Patients with Primary Sclerosing Cholangitis: Significance and Association with the Mayo Risk Score. Abdom Radiol (NY). 2017 Jan;42(1):152-158. PMID: 27472938.

O'Brien JJ, Stormann J, Roche K, Cabral-Goncalves I, Monks A, Hallett D, Mortele KJ. Optimizing MRI Logistics: Focused Process Improvements Can Increase Throughput in an Academic Radiology Department. AJR Am J Roentgenol. 2017 Feb;208(2):W38-W44. doi: 10.2214/AJR.16.16680. PMID: 27929667.

Occhipinti M, Heidinger BH, Pfannenberg C, Munden RF, **Eisenberg RL**, **Bankier AA**. Managing Incidental Lung Nodules in Patients With a History of Oncologic Disease: A Survey of Thoracic Radiologists. J Thorac Imaging. 2017 Mar;32(2):115-120. MID: 27643445.

Phillips CT, **Manning WJ**. Advantages and pitfalls of pocket ultrasound vs daily chest radiography in the coronary care unit: A single-user experience. Echocardiography. 2017 Mar 14. doi: 10.1111/echo.13509. PMID: 28295525.

Phillips CT, **Manning WJ**. A Woman in Her 90s With Respiratory Distress After Transcatheter Aortic Valve Replacement and Pacemaker Implantation. Chest. 2017 Apr;151(4):e77-e79. PMID: 28390640.

Phillips J, <u>Miller MM</u>, **Mehta TS, Fein-Zachary V**, Nathanson A, Hori W, Monahan-Earley R, **Slanetz PJ**. Contrast-enhanced spectral mammography (CESM) versus MRI in the high-risk screening setting: patient preferences and attitudes. Clin Imaging. 2017 Mar - Apr;42:193-197. Epub 2016 Dec 28. PMID: 28107737.

Pisani MA, Albuquerque A, Marcantonio ER, Jones RN, Gou RY, Fong TG, Schmitt EM, Tommet D, Isaza Aizpurua II, **Alsop DC**, Inouye SK, Travison TG. Association Between Hospital Readmission and Acute and Sustained Delays in Functional Recovery During 18 Months After Elective Surgery: The Successful Aging after Elective Surgery Study. J Am Geriatr Soc. 2017 Jan;65(1):51-58. Epub 2016 Nov 29. PMID: 27898172; PMCID: PMC5258816.

Roe AJ, Zhang S, **Bhadelia RA**, Johnson EJ, Lichtenstein AH, Rogers GT, Rosenberg IH, Smith CE, Zeisel SH, Scott TM. Choline and its metabolites are differently associated with cardiometabolic risk factors, history of cardiovascular disease, and MRI-documented cerebrovascular disease in older adults. Am J Clin Nutr. 2017 Mar 29. pii: ajcn137158. doi: 10.3945/ajcn.116.137158. PMID: 28356272.

Rubin GD, McNeil BJ, Palkó A, Thrall JH, Krestin GP, Muellner A, **Kressel HY**. External Factors That Influence the Practice of Radiology: Proceedings of the International Society for Strategic Studies in Radiology Meeting. Radiology. 2017 Feb 4:162187. doi: 10.1148/radiol.2017162187. PMID: 28157409.

Rutkove SB, Kapur K, Zaidman C, **Wu JS**, Pasternak A, Madabusi L, Yim S, Pacheck A, Szelag H, Harrington T, Darras BT. Electrical impedance myography for assessment of Duchenne muscular dystrophy. Ann Neurol. 2017 May;81(5):622-632. PMID: 28076894; PMCID: PMC5444980.

Sacks BA, Sacks AC, **Faintuch S**. Radiofrequency ablation treatment for aldosterone-producing adenomas. Curr Opin Endocrinol Diabetes Obes. 2017 Feb 28. doi: 10.1097/MED.00000000000329. PMID: 28248752.

Sánchez Y, **Shenoy-Bhangle A**, Prabhakar AM, Gee MS, Fintelmann FJ, Uppot RN. Percutaneous Image-Guided Cryotherapy for Local Control of Recurrent Plexiform Schwannoma in a 3-Year-Old Male. J Vasc Interv Radiol. 2017 May;28(5):766-768. PMID: 28431654. [Letter]

Sarwar A, Esparaz AM, Tapper EB, **Brook OR**, Grunwald D, Malik R, **Ahmed M**. Comparison of Vascular Plugs and Pushable Coils for Variceal Embolization After TIPS. AJR Am J Roentgenol. 2017 Mar;208(3):650-655. PMID: 27959638.

Sarwar A, Zhou L, Chakrala N, **Brook OR**, **Weinstein JL**, Rosen MP, **Ahmed M**. The Relevance of Readmissions after Common IR Procedures: Readmission Rates and Association with Early Mortality. J Vasc Interv Radiol. 2017 May;28(5):629-636. PMID: 28291716.

Shahzeb Khan M, Fatima K, Bin Riaz I, Butler J, **Manning WJ**, Khosa F. The 20 most-cited articles in echocardiography literature. Eur Heart J. 2017 Jan 7;38(2):74-78. PMID: 28158413.

Slanetz PJ, Brown AL, **Bradley M**, **Karimova EJ**. Tomosynthesis-Directed Coaxial Core Biopsy of Tomosynthesis-Detected Architectural Distortion: Indications and Logistics. Can Assoc Radiol J. 2017 Apr 7. pii: S0846-5371(16)30150-4. PMID: 28396003.

Strom JB, Whelan JB, Shen C, Zheng S, **Mortele KJ**, Kramer DB. The Safety and Utility of Magnetic Resonance Imaging on Patients with Cardiovascular Implantable Electronic Devices. Heart Rhythm. 2017 Mar 31. pii: S1547-5271(17)30416-2. PMID: 28385671.

Tailor TD, Kicska GA, Jacobs JE, Pampaloni MH, **Litmanovich DE**, Reddy GP. Imaging of Heart Disease in Women. Radiology. 2017 Jan;282(1):34-53. PMID: 28005501.

Taliaferro AS, **Fein-Zachary V, Venkataraman S, Mehta TS**, Patel A, **Slanetz PJ**. Imaging Features of Spindle Cell Breast Lesions. AJR Am J Roentgenol. 2017 May 24:1-11. doi: 10.2214/AJR.16.17610. PMID: 28537752.

Waltzman D, **Soman S**, Hantke NC, Fairchild JK, Kinoshita LM, Wintermark M, Ashford JW, Yesavage J, Williams L, Adamson MM, Furst AJ. Altered Microstructural Caudate Integrity in Posttraumatic Stress Disorder but Not Traumatic Brain Injury. PLoS One. 2017 Jan 23;12(1):e0170564. doi: 10.1371/journal.pone.0170564. PMID: 28114393.

Waxman AD, Bajc M, Brown M, Fahey FH, Freeman LM, Haramati LB, Julien P, Le Gal G, Neilly B, Rabin J, Soudry G, Tapson V, Torbati S, Kauffman J, Ahuja S, **Donohoe K**. Appropriate Use Criteria for Ventilation-Perfusion Imaging in Pulmonary Embolism: Summary and Excerpts. J Nucl Med. 2017 May;58(5):13N-15N. PMID: 28461589.

Weissler-Snir A, Hindieh W, Gruner C, Fourey D, Appelbaum E, Rowin E, Care M, Lesser JR, Haas TS, Udelson JE, **Manning WJ**, Olivotto I, Tomberli B, Maron BJ, Maron MS, Crean AM, Rakowski H, Chan RH. Lack of Phenotypic Differences by Cardiovascular Magnetic Resonance Imaging in MYH7 (β-Myosin Heavy Chain)- Versus MYBPC3 (Myosin-Binding Protein C)-Related Hypertrophic Cardiomyopathy. Circ Cardiovasc Imaging. 2017 Feb;10(2). pii: e005311. doi: 10.1161/CIRCIMAGING.116.005311. PMID: 28193612.

Wu JS, McMahon CJ, Lozano-Calderon S, **Kung JW**. JOURNAL CLUB: Utility of Repeat Core Needle Biopsy of Musculoskeletal Lesions With Initially Nondiagnostic Findings. AJR Am J Roentgenol. 2017 Mar;208(3):609-616. PMID: 27959586.

Zaidman CM, **Wu JS**, Kapur K, Pasternak A, Madabusi L, Yim S, Pacheck A, Szelag H, Harrington T, Darras BT, Rutkove SB. Quantitative muscle ultrasound detects disease progression in Duchenne muscular dystrophy. Ann Neurol. 2017 May;81(5):633-640. PMID: 28241384; PMCID: PMC5444989.

Zhao L, Dai W, **Soman S**, **Hackney DB**, Wong ET, Robson PM, **Alsop DC**. Using Anatomic Magnetic Resonance Image Information to Enhance Visualization and Interpretation of Functional Images: A Comparison of Methods Applied to Clinical Arterial Spin Labeling Images. IEEE Trans Med Imaging. 2017 Feb;36(2):487-496. PMID: 27723582.

Zhou W, Baughman BD, **Soman S**, Wintermark M, Lazzeroni LC, Hitchner E, Bhat J, Rosen A. Volume of subclinical embolic infarct correlates to long-term cognitive changes after carotid revascularization. J Vasc Surg. 2017 Mar;65(3):686-694. Epub 2016 Dec 23. PMID: 28024850; PubMed PMCID: PMC5328795.

Zygmont ME, Itri JN, Rosenkrantz AB, Duong PT, Mankowski Gettle L, Mendiratta-Lala M, Scali EP, Winokur RS, Probyn L, **Kung JW**, Bakow E, Kadom N. Radiology Research in Quality and Safety: Current Trends and Future Needs. Acad Radiol. 2017 Mar;24(3):263-272. Review. PMID: 28193376.

*New citations in blue...

Thanks to technology, PubMed is able to immediately list citations as they are published online (*Epub Ahead of Print*). These are listed in our bibliography in blue type denoting "new" publications; however, please note that when the print version comes out, the citation does not appear in blue as a new item, it is merely updated. So when updating your CVs from this bibliography, please keep checking for final citations which include print data. For example:

Larson DB, **Kruskal JB**, Krecke KN, Donnelly LF. Key Concepts of Patient Safety in Radiology. **Radiographics. 2015 Sep 4:140277**. [Epub ahead of print] PMID: 26334571.

Larson DB, **Kruskal JB**, Krecke KN, Donnelly LF. Key Concepts of Patient Safety in Radiology. **Radiographics. 2015 Oct;35(6):1677-93.** PMID: 26334571.

Radical Views is published monthly (except for a hiatus in August). To submit corrections, news, comments, and publications, please email Donna Wolfe, Editor at: dwolfe@bidmc.harvard.edu or call 617-754-2515