



Radical Views...

from the Department of Radiology

Volume 10, Number 1
JULY 2017



Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL



FROM THE CHIEF
Jonathan B. Kruskal, MD PhD

Dear All,

I am writing to share the exciting news that **Dr. Etta Pisano** has been appointed **Chief Scientific Officer for the American College of Radiology**, commencing in early September. This is a terrific opportunity for Etta, who will remain on our faculty and will continue to serve as a mentor to many of our researchers.

I am thrilled for Etta as this position meets her wide range of interests and her specific areas of expertise. Having Etta in this role will be good for our field as she will be leading the ACR's mission to support research in imaging. That includes helping faculty across the country develop research projects from basic science through translational efforts to clinical studies, including fostering the growing field of health services research, encompassing economics and policy projects. Etta's focus will now also expand beyond breast imaging, and will include all areas of medical imaging.

With the enormous demands of the TMIST study and this new role, Etta will be stepping down as our Vice Chair of Research, and we will soon commence a process to identify new leadership and oversight processes to support our research program.

I am very appreciative of the outstanding work Etta has done in her role as our vice chair for research, and wish her every success in this important new role. We also look forward to more successes as a result of her continued mentoring role in our department.

ACR[®]
AMERICAN COLLEGE OF
RADIOLOGY
QUALITY IS OUR IMAGE



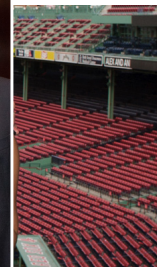
Donna Hallett, BSc
Sr. Director of Operations

Welcome new
Department
Administrator
Lauren Forbes



Lauren is joining the BIDMC team as a department administrator after moving to Massachusetts from northeast Florida where she lived for 14 years. She most recently worked as the admin to the CEO of the University of Florida's Proton Therapy Institute as well as the assistant to two radiation oncologists. Lauren received her MBA with a focus in Healthcare Management online from Quinnipiac University in May of this year and received her bachelor's degree in Exercise Science at Florida State University in 2014. Originally from central Massachusetts, she looks forward to experiencing the Boston culture and enjoying all that New England has to offer, including the snow!

Contact Information:
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Department Administrator
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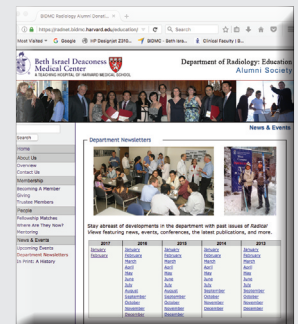
This year, due to July 1st falling on Saturday, we have had to hit the ground running and prioritize departmental program news and

updates and introductions of our incoming faculty, staff and trainees in this newsletter such that our **Fleischner Graduation** event is now featured as a supplement on pages 22-27. Also see pages 14-20 for **new faculty, staff and trainees!**

Stay in touch:

Check out our **BIDMC Radiology Alumni Society** page and receive our monthly **Radical Views**

You can also contact **Radical Views** Editor Donna Wolfe at dwolfe@bidmc.harvard.edu with updates, especially after completion of your fellowships!



<http://radnet.bidmc.harvard.edu/education/newsletters.asp>

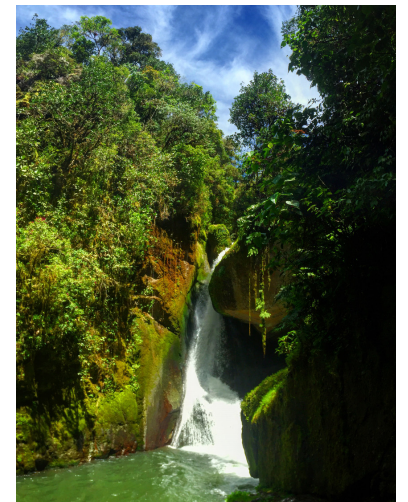
Radiology Calendar JULY 2017

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, GI/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 our 12 noon Friday Grand Rounds are held in the Rabkin Board Room , Shapiro-10, East Campus <i>(except when noted otherwise, i.e., Sherman Auditorium)</i>
3	4 July 4th Holiday	5	6	7
10 12:00-1:00 MRI meeting [Ansin 2]	11 10:30-11:30 NMMI meeting [GZ-103]	12 7:15-8:00 US meeting [WCC-304A] 7:30 - 9:00 Neuro Lecture (TBD)	13 1:30 - 2:00 East MedRads (NukeResident)	14
17	18 8:00-9:00 IR Meeting [West Recovery]	19	20 1:30 - 2:00 East MedRads (NukeResident)	21
24	25 10:30-11:30 NMMI meeting [GZ-103]	26 12:00-1:00 Neuro case conference (Neuro fellows)	27 3:00-4:00 West MedRads - Sr. Resident, West Body CT [Clouse]	28
31 7:30 - 8:15 Intro to Nuclear Medicine (Kevin Donohoe) 8:15 - 9:00 Nukes in the ED (Kevin Donohoe)				

*The Gallery
presents a show by*

Andres Camacho
Costa Rican Native & CT Research Fellow



Showing June-July, 2017

24th Annual Fleischner Lecture, June 23, 2017: Community Radiology - (back to) the future of the Academic Department?

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

Max Rosen, former Executive Vice Chair and Associate of Community Network Affairs responsible for expanding our community imaging division at BIDMC Radiology, returned to present the 24th Annual Fleischner Lecture on an incredibly timely topic to begin our new academic year!



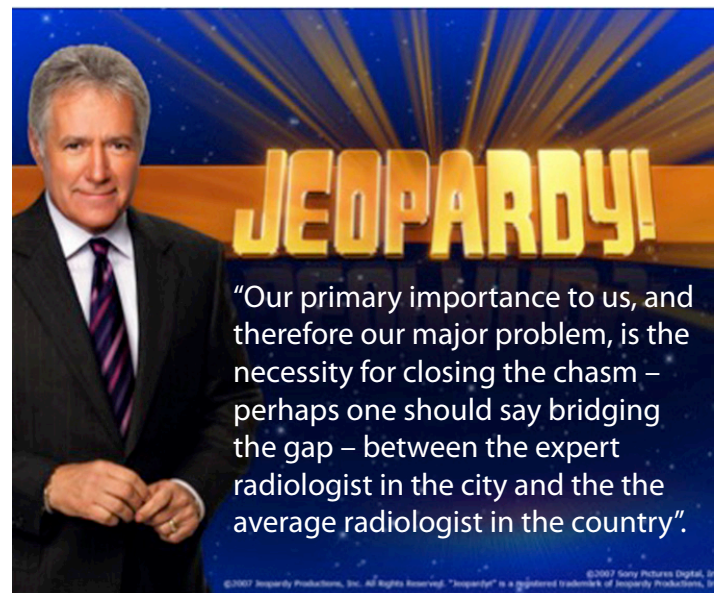
- In the days of Felix Fleischner, the Radiology reading room functioned as the "community center" of the hospital (both academic and private practice).
- Then came PACS - and the community crumbled.
- Can we get the community back, to help save our future?



Dr. Rosen acknowledged Jane Corey, Manager of HMF Radiology Outpatient Practice for her efforts and experience in community radiology practice.

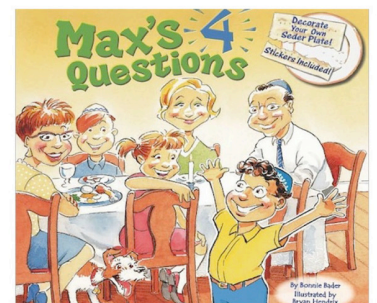
Objectives

- Identify the economic and technologic forces that have influenced the intersection of academic and community Radiology practices over the past decade.
- Identify strategies for academic Radiology departments to incorporate community radiology into their practices.
- Identify the potential ways in which AI and machine learning may influence the dynamics of academic and community Radiology practices.



Four Questions:

1. How did an Interventional Radiologist get involved in Community Radiology?
2. Why do academic departments now care about Community Radiology?
3. What forces shaped the current environment?
4. How do we make this work?



Updated Radiology Staff, Trainee & Technologist Posters

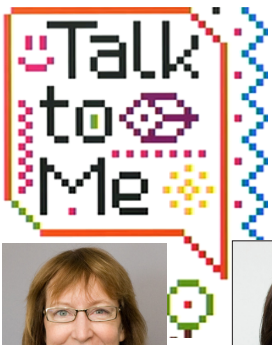
are available on InfoRadiology in pdf format for viewing, downloading, and printing.

Log in to the portal: <https://inforad.bidmc.harvard.edu/Logon.asp>

Click on InfoRadiology for **Staff Posters**

Help us stay up-to-date:

Please contact Michael Larson (mlarson1@bidmc.harvard.edu) to update your staff (or any other information) on these posters



RADIOLOGY'S TALK TO ME

As introduced in last month's Radical Views, **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



Suzanne Swedeen,
RN MSN CNIV, Quality
Improvement Specialist



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

raised. To keep the momentum going for this initiative each month we 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 here in Radical Views the safety concern raised with the biggest impact and award the staff member a bonus.

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

Leighton Atkins	Trevor Lewis
Robert Beeman	Hazel Malolos
Nicole Caddell	Jennifer Ní Mhuircheartaigh
Meredith Cunningham	Bridget O'Bryan
Maggie Cybulska	Bettina Siewert
Donna Hallett	Suzanne Swedeen
Fritz Honore	Aaron Thurston
Juline Horan	Steven Warren
Alexei Kudla	Jim Wu



Congratulations to **Vess Liakas** our first Radiology Safety Excellence Award recipient for his extraordinary

management of a recent MRI patient. Not only did Vess speak up about a safety concern when during off hours he discovered a patient had a medical device implanted that could be affected by the MRI, he also stopped the line in order to clarify and ensure the patient's safety. Vess recognized the patient's medical device would need to be interrogated and possibly re-programmed post MRI which he then tried to facilitate. When follow-up care could not be immediately provided he canceled the exam and communicated directly to a very grateful patient and ordering provider. Dr Kruskal commented that "this is a great example of effective patient safety in action". Ines Cabral-Goncalves Director of MRI says "this is just a small portion of what Vess does every day and we are very proud to have him on our team. As one of the senior MRI Techs on the evening shift, Vess goes above and beyond every day to ensure the work flow across campuses is smooth." Congratulations Vess!

If you missed Vice Chair for Quality **Dr. Bettina Siewert's** April 14th, 2017 Grand Rounds on **Barriers to Safety Event Reporting: Authority Gradients & Other Human Factors**, click below (or copy and paste into a browser) for her video: <https://vimeo.com/user15366620/review/214061890/74ab259f2c>

WELCOME Another New Addition to the BIDMC Family



2017-2018 Chief Resident Tom Anderson

Hi all,

We are thrilled to announce a new addition to our family; **Samuel Thomas Anderson** (Sam) was born 6/25 at 8:30 am weighing in at 9 lbs 7 oz, 21 inches long. Mom and baby are both doing well and Sam is the spitting image of his big brother, who is very excited to meet him!

Sincerely and sleepily,
Tom, Ali, and Henry





Aideen Snell, MSW, CPXP
 Manager, Service Excellence
 Program x72570
 asnell@bidmc.harvard.edu

AIDEEN SNELL: SERVICE EXCELLENCE & ACTION PLANNING (SEAP) COMMITTEE

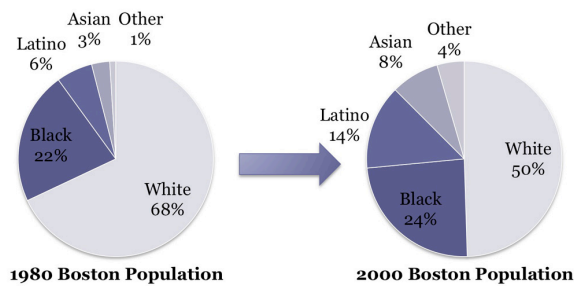
Radiology Action Planning Committee's Patient Engagement

July TIP of the Month:

Treat others as *THEY* wish to be treated

Historically we have been taught that the "Golden Rule" is to "treat others as we wish to be treated" but not anymore. **Now the "Platinum Rule" is to "treat others as they wish to be treated"** because we all find value in different things. What is important to you may not be the case for the next person. This past month we had two incredibly eye-opening presentations provided to our department which brought sensitivity and awareness to all the differences in the patient population we serve (see below). We also need to be keenly aware of our own privileges, as well as the bias and stereotypes we bring to the table. Education and self-awareness is the first step to being accepting and flexible with one another.

Over the years, Boston has become more diverse



Languages in Boston

- 33.4% of Bostonians speak another language
- 46,000 or 8% of all Boston residents lack English proficiency in 2000
- 25% of all Spanish speakers don't speak English well

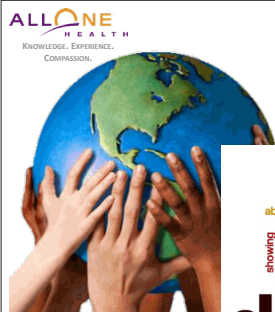
Around the Country - Nationally 16% of the US population has limited English Proficiency

Schulson L. Ncho A, Mensah E

Patient Satisfaction Surveys in Limited English Proficiency Patients

Ambulatory Service Excellence Steering Committee

Leah Taffel, MD
 Katherine Swan Ginsberg Fellowship



DIVERSITY IN THE WORKPLACE
 Presented by
KIMBERLY JONES, LCSW



FINDING MEANING

- Diversity encompasses a variety of characteristics and traits of a person.
- Challenging group thinking leads to greater understanding.

IMPACT OF DIVERSITY

- Negative
 - Communication barriers
 - Challenges adjusting
- Positive
 - Increased adaptability
 - Broader range of services
 - Increased cultural exposure

Key benefits of workplace diversity

A diverse organization will out-think and out-perform a homogeneous organization every single time.

A. G. Lafley, CEO
 Procter & Gamble



85%

of large global enterprises believe diversity is crucial to fostering innovation in the workplace.



79%

of companies believe that diversity initiatives have had a positive effect on company culture.



83%

of executives agree that a diverse workforce improves their company's ability to capture and retain a diverse client base.

15x the increase in sales revenue of companies with high rate of racial diversity.



WORLD OF ASSUMPTIONS

- Stereotypes are often unfair and untrue beliefs that are widely held about people with a particular characteristic.
- What stereotypes are made about you, what stereotypes do you have about others?

STRATEGIES FOR INCLUSION

- Two-Dimensional (2-D) Diversity
 - Inherent Diversity
 - Traits you are born with
 - Acquired Diversity
 - Traits you gain from experience
- Success
 - "Companies with 2-D diversity out-innovate and out-perform others."
 - Leaders in these business had at least three inherent diversity traits and three acquired ones.



2nd ANNUAL BETTINA SIEWERT BIDMC ABDOMINAL IMAGING RESEARCH DAY Thurs, June 15, 2017



Chief of Abdominal Imaging and Director of MRI, Dr. Koenraad Mortele, welcomed us to the second annual Bettina Siewert Abdominal Imaging Research Day, named to honor the career efforts of Dr. Siewert who stepped down last year as Chief of Abdominal Imaging to serve as Executive Chair of Radiology in addition to serving as Vice Chair of Quality in Radiology.

Dr. Mortele started off with acknowledging the incredible clinical work efforts of this year's Abdominal and Body MRI fellows and thanked them for their efforts in pursuing research projects in addition to their clinical responsibilities. Held in the Clouse Conference Room in the Rosenberg Building (West Campus) on June 15th, the fellows presented the following talks:

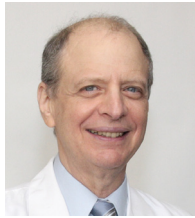
Kevin Beker, MD Clinical MRI Research	Optimizing MRI Logistics: Prospective Analysis of Performance, Efficiency and Patient Throughput
David Becker-Weidman, MD Body MRI	Xanthogranulomatous Pancreatitis: Case and Review of Image Findings
Fernanda Caseira Cabral, MD Abd	Quality Assessment of Cervical Cancer Staging with MRI
Alejandro Garces, MD Clinical MRI Research	Mucinous Cystic Neoplasms of the Pancreas: High-resolution Cross-sectional Imaging Features with Clinico-pathologic Correlation
Tarek Hegazi, MD Body MRI	MRI of Retroperitoneal Cystic Masses: A Review
Particia Jo, MD Abd	Split-bolus Technique for Evaluation of Mesenteric Ischemia
Laura Miller, MD Abd	MRI Reporting of Ovarian Tumors
Dinushi Perera, MD Body MRI	Symptomatic Fibroids in Pregnancy: MR Imaging Features and Differentiation from Non-Symptomatic Fibroids
Robert Ruef, MD Abd	Evaluation of a Focal Hepatic Mass Using Eovist in Non-cirrhotic Patients
Azize Sahin, MD Abd	Routine Use of Gadolinium Enhanced MRCP in the Inpatient Setting
Yifei Wang, MD Abd	Diffusion Weighted Imaging: Hepatic Lymphoma vs Other Hepatic Lesions

BIDMC at ACR 2017

ACR 2017 - The Crossroads of Radiology®
May 21-25, 2017
Marriott Wardman Park Hotel
Washington, DC



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



Ronald Eisenberg,
MD JD, Assoc. Director



Anu Shenoy-Bhangle,
MD, Assoc. Director

This week's ACR 2017 was an enlightening experience, which included clinical learning, networking, advocacy, and leadership development. The beginning of the conference was highlighted by a discussion between Dr. James Brink, Chair of MGH, and Jeff Immelt, CEO of GE. This shed light on the direction of the industry and how, as radiologists, we can best position ourselves for a successful future. Kick-starter sessions for young radiologists provided guidance for our pursuit of fellowships, jobs, and financial success throughout our careers. A particularly strong session offered advice for contract negotiations, a topic on which we physicians generally lack knowledge.



Current 3rd yr resident Michael Johnson and 2nd yr resident Ronald Mercer at the Capitol.

One of the most interesting sections of the conference was a forum on healthcare economics. Presenters discussed the future of radiology within alternative payment models as well as efforts by the ACR to preserve reimbursements via the relative value scale uptake committee (RUC), highlighting, in particular, gains made in the realm of breast imaging. An excellent presentation on artificial intelligence made the case that we can, and should, embrace artificial intelligence and its growing role in radiology. We were particularly struck by the optimism with which the crowd held for its potential to help us rather than replace us.

The final day of the conference involved a visit to Capitol Hill, where we met with our representatives' and senators' offices. These meetings included visits with both Joe Kennedy III and Elizabeth Warren, both of whom were very supportive of our desire to ensure funding for cancer screening tests, including mammography, low dose chest CT, and CT colonography.

We came away from the conference with a heightened awareness of the importance of advocacy, leadership development, and active participation in helping shape changes to our healthcare system for the benefit of our profession and, most importantly, our patients. Now, more than ever, is the time for forward thinking and collaboration to secure our clinical future. On a final note, we would like to thank the Massachusetts Radiological Society, our department, and our program leadership, including Drs. Jonathan Kruskal, Priscilla Slanetz, and Deborah Levine, for their support. We hope future classes of radiology residents will take the opportunity to attend the ACR's annual meetings for years to come.

Ronald W Mercer MD
Michael T Johnson MD

Residents Breakfast Awards preview:

The Gandalf award was presented to Tabitha Fineberg "for saving us and helping us get out of all sorts of sticky situations this year, as Gandalf did for the hobbits in Lord of the Rings!" - Hannah Perry, Chief Resident. See pg 27 for the complete Resident Breakfast Awards.



Mass Vein Care Center Updates:

In August 2015, **Dr. Felipe Collares** (right, center), Medical Director of Mass Vein Care, HMFP and Co-Director of the Vascular Lab at BIDMC, received the de Groot Award from the American College of Phlebology which allowed him to travel to Berlin, Germany and Bergen, Norway to learn specific and advanced techniques in VenaSeal, a procedure that uses glue to treat venous insufficiency and varicose veins. This procedure, performed in Europe for a few years and recently FDA approved in the US, has advantages over the current thermal ablation options: no need of tumescent anesthesia during the procedure or post-procedure use of compression stockings. Dr. Collares participated in several procedures using this technique and we are pleased to announce that he is the first physician in the Boston metro area to treat a patient with VenaSeal. Congratulations Dr. Collares!



Note that Mass Vein Care has moved to 1101 Beacon St.

Mass Vein Care

Do you have enlarged veins on your legs – or any of the following?

Aching **Night cramps**
Itching **Heaviness**
Throbbing **Restlessness**
Fatigue **Swelling**

COMPLIMENTARY SCREENINGS
Mondays & Thursdays
For Appointments please call:
617-754-0450

Mass Vein Care provides consultation and treatment options for people with varicose and spider veins



Massachusetts
Vein Care Center
www.massveincare.com

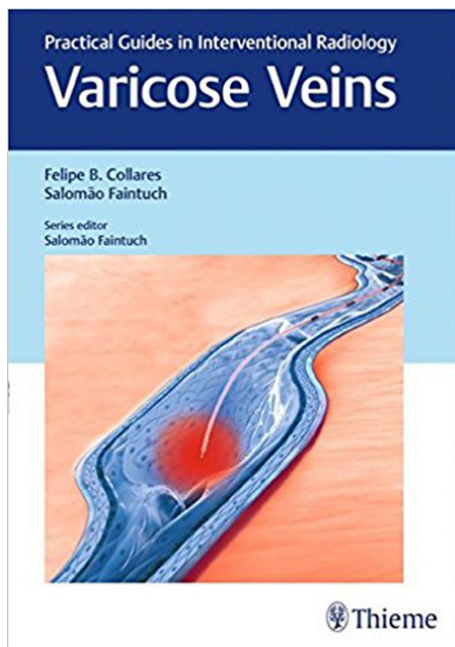
Mass Vein Care Center at
1101 Beacon St., Suite 3W
Brookline, MA 02446
617-754-0450

HARVARD MEDICAL FACULTY PHYSICIANS
AT BETH ISRAEL DEACONESS MEDICAL CENTER, INC.
With our community affiliates
ASSOCIATED PHYSICIANS OF HARVARD MEDICAL FACULTY PHYSICIANS AT BIDMC, INC.

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New in Press

Available on Amazon July 2017:



Varicose Veins: Practical Guides in Interventional Radiology

https://www.amazon.com/Varicose-Veins-Practical-Interventional-Radiology/dp/1626230129/ref=redir_mobile_desktop?_encoding=UTF8&qid=149823&ref_=mp_s_a_1_1

Chronic venous disease is a common condition, with a prevalence as high as 50% in industrialized countries worldwide. Of those, about 20-25% of women and 10-15% of men have visible varicose veins. Varicose vein treatment has become an increasingly multidisciplinary field, and one that has seen cutting-edge advances and significant growth.

Felipe B. Collares, Salomao Faintuch, and a team of venous disease experts have compiled, *Varicose Veins*, a concise book that covers the full range of interventional procedures for venous insufficiency. Following introductory chapters on anatomy and pathophysiology, the authors guide readers through the clinical exam, imaging, compression therapy, and various minimally invasive techniques. Highly practical and an affordable alternative to larger published tomes.

Key Highlights

- Step-by-step guide on core venous interventions - from compression therapy to sclerotherapy - ambulatory phlebectomy to endovascular ablation
- Illustrations delineate anatomy and specific treatment modalities
- Clinical pearls on patient safety and preventing complications
- Discussion of emerging endovascular approaches that do not require administration of tumescent anesthesia

This handy resource is a must-have for trainees and veteran physicians. The practical and focused layout provides a well-rounded reference for all specialists who perform varicose vein procedures - interventional radiologists, vascular surgeons, phlebologists, cardiologists, and dermatologists.

ALSO: See pg 28, Publication Callout: The ACP Phlebology Safety Checklist first published Jan 2017 (SAGE Journal)

KOMMUNITY KORNER: South Cove Community Health Center Breaks Ground In Malden



Jeffrey Bernard, RT
Manager, Community
Radiology Network Services



Jane D. Corey
Manager, HMFP Radiology
Outpatient Practice

Wednesday, June 21, 2017
- South Cove Community Health Center (SCCHC) hosted a ground-breaking ceremony showcasing their new Malden Clinic located at 277 Commercial St., Malden, MA. On hand were Malden Mayor Gary Christenson,

Nelson Liu, Board President, Eugene Welch Executive Director and Eric Tibieri, Chief Operating Officer. **Also present to celebrate this occasion were Dr. Justin Kung, Director of Network Integration, Jane Corey and myself, Radiology Managers, and Nancy Kasen, BIDMC Director of Community Benefits.**

Founded in 1972, South Cove Community Health Center, a federally funded community health center with four locations in Boston and Quincy serving over 32,000 patients, had been actively exploring different opportunities, particularly in the Malden area for over a year. Malden, having the third largest Asian population in the state, was a likely choice as SCCHC is dedicated to improving the health and well-being of all medically underserved in Massachusetts with a special focus on Asian Americans -- and also because many of their existing patients are from Malden. The SCCHC aims to provide high quality community-based health care and programs which are accessible affordable as well as linguistically and culturally competent for these populations. South Cove purchased the property in February 2017 and the Malden Planning Board formally approved the project in April making way for the remodel process. The remodeled one-story building will have over 14,000 sq. ft. of clinical space for internal medicine, OB/GYN, pediatrics, lab, optometry care and a host of social services.

Right: Thank you to Billy Lee, Frances Ma and Alvin Wing for taking and sharing their pictures!

HMFP Radiology Mobile Ultrasound:



HMFP Radiology Mobile Ultrasound has been a partner in the community with South Cove for over 18 years. Presently, Mobile Ultrasound services South Cove Boston at Washington St. (Adult Medicine); South Cove Boston South St. (OB/GYN) and South Cove Quincy (Adult Medicine and OB/GYN). **Suzie Konopka** and her team have a built a trusting relationship with this community and work with on-site support for Interpreter Services. We look forward to expanding and extending our customer focus and quality imaging to the new Malden location targeted to open in early 2018.

Teambuilding in Abd, Body MRI: The Color Run and Paintball

Staff and Fellows of the Abdominal Imaging and Body MR Sections joined with Dr. Koenraad Mortele in two teambuilding events which capped off a year of hard work and great teamwork. **Paintball**, held at Boston Paintball in Ashland, MA, was unanimously



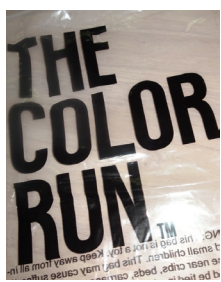
voted the "Most Memorable Event of the Year." The Abdominal Imaging and Body MR Sections also showed their charity-side on Sunday, June 11, 2017, when they ran the 5K **Color Run Boston** race for local charities. Everyone went home in variegated shades of lavender, pink, blue, and yellow. Some of the ladies wore ballet skirts to set themselves off, and everyone received a medal. Lunch afterwards at Davio's at Patriot's Place gave everyone a chance

to take pictures and rest. Congratulations to everyone who participated in both events!



Paint Ball Teambuilding Event
Thursday, June 7, 2017, at Boston Paintball, Ashland, MA

Back Row: Adrian Jaramillo; Paulo Castro; Yifei Wang; Matthew Del Guzzo; Karen Lee; Leo Tsai; Tarek Hegazi; Jim Wu; Koenraad Mortele; Fernanda Caseira Cabral; Laura Miller; David Becker-Weidman; Dinushi Perera; Jennifer Ni Mhuircheartaigh; Fourie Bezuidenhout; Robert Ruef. Front Row: Kevin Beker; Alejandro Garces; Patricia Jo; Azize Sahin; and Anuradha Shenoy-Bhangle.



Color Run Boston

Sunday, June 11, 2017, at Patriot Place

Back Row: Anuradha Shenoy-Bhangle's husband; Jennifer NiHuircheartaigh; Elena Duran; Agustin Garcia (Elena Duran's husband); Laura Miller; David Becker-Weidman; Robert Ruef; Paulo Castro; Patricia Balcacer; Tarek Hegazi; Koenraad Mortele; Nicole Pearlstein.

Front Row: Anuradha Shenoy-Bhangle & 2 Daughters; Tarek Hegazi's wife and son; Patricia Jo; Azize Sahin --and Mable Mortele in the front and center.



See You After The Color Run...

Abdominal Imaging & Body MR

Team Building Brunch

11:00 AM
Davio's

236 Patriot Place
Foxboro, MA 02035
Sunday, June 11, 2017

RSVP: Lori Gahan lghahn@abimc.harvard.edu



Farewell Breast Imager Shambhavi Venkataraman, MD -

As evidenced by the number of going away parties held for her, Sham has been a valued member of our Breast Imaging faculty (since 2007, after completing a Women's imaging fellowship at BIDMC). She has been involved in many aspects of our department over the past decade, including being Director of QA/QC in Breast Imaging, and most recently, since 2015, serving as Chief of Breast Imaging at Harrington Healthcare and Associate Chief of Community Breast Imaging for BIDMC. While we are sad to see her leave the BIDMC family, we wish her well in her new position at UMass Memorial Medical Group and UMass Medical Center where she will be the Chief of Breast Imaging at their Leominster site. Thank you Sham for so many years of dedication, hard work, leadership, and friendship. We'll miss you.



All our best,
Tejas S. Mehta, MD MPH, Chief of Breast Imaging

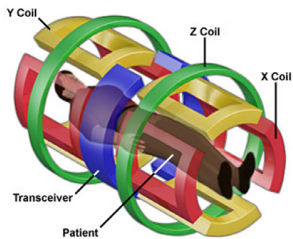
There was much laughter (and a few tears) at different social events throughout our various practice sites. The breast imaging group from Boston celebrated with Sham at Bar Louis after work, with cocktails, food, and a trip down memory lane.



"We will sure miss her in Lexington."
Back row (L to R): Dana Donovan, Linda Francis, Ethel Waite, Sandy Shea and Janet Carpenter.
Front row (L to R): Suzanne McWeeney, Kate Duff, Dr. Venkataram, Kathy Pepin



"We will sure miss her at 1101 Beacon St"

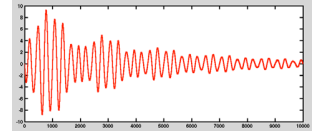


National High Magnetic Field Laboratory

BIDMC

Radiology Residents & Fellows MRI Physics Course

2017-2018 Academic Year



Purpose:

To provide fellows and residents with a basic understanding of MR physics, with emphasis on practical aspects of image acquisition such as protocol optimization and troubleshooting. A brief overview of fundamentals of nuclear magnetic resonance will provide an introduction to sources of image contrast in MRI. Techniques for image acquisition will be described, followed by an overview of the major families of MR pulse sequences. Topics such as accelerated imaging, fMRI, and diffusion tensor imaging will be discussed.

Format:

All sessions will be held on Wednesdays, 5-6pm at the MRI Learning Lab, Ansin 220, starting July st.

Text and Topics:

The recommended textbook is *"MRI in Practice," 4th Edition (2011)* by Catherine Westbrook. Supplementary reading from review articles will be recommended for advanced topics.

For more information, contact Aaron Grant, PhD: 7-3265

TOPICS

1. **July 19:** The origin of the NMR signal. Nuclear magnetism. Nutation, precession, signal reception. Chemical shift. Relaxation, T1, T2. Spin dephasing, impact of gradients and magnetic field inhomogeneities.
2. **July 26:** Sources of contrast in MRI: T1 and T2 weighting, magnetization transfer, diffusion.
3. **August 2:** Overview of MR hardware. Image formation (1). Phase and frequency encoding. Basic k-space concepts.
4. **August 9:** No Lecture.
5. **August 16:** Image formation (2), Field-of-view, and resolution. k-space sampling for given imaging parameters, and effects of undersampling (aliasing, pseudo-noise). Accelerated imaging methods.
6. **August 23:** Signal-to-Noise: Image parameters that govern SNR. Trade-offs in image optimization.
7. **August 30:** Pulse sequences. Gradient echo, spin echo, steady state, EPI. STIR/FLAIR/IR etc. Fat suppression. Spectroscopy with PRESS, STEAM, CSI.
8. **September 6:** No lecture.
9. **September 13:** Effects of flow and diffusion. Flow compensation, time-of-flight, phase contrast, intro to diffusion.
10. **September 20:** Contrast-enhanced MRI. Types of magnetic materials. Relaxivity and image contrast as a function of dose, TR, TE. Dynamic contrast enhanced imaging, angiography. BOLD effect, fMRI.
11. **September 27:** Accelerated imaging. Parallel imaging and compressed sensing.
12. **October 4:** Diffusion-weighted imaging and DTI in neuro applications.
13. **October 11:** Arterial spin labeling in the brain and body.
14. **October 18:** Artifacts and troubleshooting.



J. DeFelipe Science 2010



BIDMC Radiology Department Code of Conduct

Our department is committed to leadership in the delivery of patient care through technical and clinical expertise in medical imaging. To be the best at what we do, we must hold ourselves to the highest standards. We have set the following values and expectations for ourselves in order to create the best working environment. By sharing these common goals we can build successful teams and a strong community that values safety, openness and respect for personal privacy and confidentiality.

Embrace the following values

- Honesty
- Integrity
- Trust
- Empathy
- Tolerance
- Compassion
- Equity

*"At BIDMC Radiology, we expect
all staff to exhibit the highest levels
of professional demeanor
and personal responsibility"*

Exhibit Professionalism

- Be on time and fully engaged for meetings or lectures
- Show respect to patients and staff alike
- Give all stakeholders a voice
- Foster teamwork and be a good teammate
- Demonstrate a positive attitude and clean neat presentation in both dress and speech
- Seek to build a safe and supportive environment for a strong sense of community

Take Personal Responsibility

- Make patient care your number one priority
- Maintain the pursuit of excellence through continuous education, training, and professional certification
- Take a proactive, not reactive, approach
- Take the initiative and lead by example
- Provide a safe environment for all employees, free from bullying or coercion

Be Accountable

All Radiology employees must be accountable for their actions and empowered to hold others to the same standards. Accountability is evidenced by:

- Taking ownership of your work
- Following through on commitments
- Complying with all applicable policies and guidelines
- Making it safe and comfortable for employees to report problems or issues



The following 2 posters are DRAFTS only; please contact Donna Wolfe at 4-2515 or dwolfe@bidmc.harvard.edu for any changes, corrections, etc. Thank you!

Radiology Faculty 2017-2018



Beth Israel Deaconess Medical Center



HARVARD MEDICAL SCHOOL TEACHING HOSPITAL

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Clinical Faculty

 Muneeb Ahmed, MD Vice Chair, Interventional Services Chief, Vascular & Interventional 35326	 Julie Armada, MD Community / Breast Imaging 30552	 Patricia Balcar De La Cruz, MD Abdominal Imaging / MRI 32064	 Alexander A. Bankier, MD, PhD Chief, Cardiothoracic Imaging 30753	 Janet Baum, MD Community / Breast Imaging 508-765-30792	 Seth J. Berkowitz, MD Vascular & Interventional Director, Informatics Innovation 94339	 Rafique A. Bhadella, MD Clinical Director, Neuroradiology 31875	 Olga R. Brook, MD Vascular & Interventional / Ab Director, CT 90861	 Yu-Ming Chang, MD, PhD Neuroradiology 95253
 Felipe B. Collares, MD Vascular & Interventional Co-Director, Vascular Lab 39676	 Yandana M. Djalani, MD Breast Imaging Director, Breast MRI 32381	 Kevin J. Donohue, MD Nuclear Medicine & Molecular Imaging 32407	 Ronald L. Eisenberg, MD, JD Cardiothoracic Imaging/MSK Assoc. Dir., Residency Prog. 30801	 Salomo Faintuch, MD Clinical Director, Vascular & Interventional 38931	 Valerie Fein-Zachary, MD Breast Imaging 32841	 Alice Fisher, MD Community / Neurosurgery 91611	 Michael D. Fishman, MD Community / Breast Imaging 30812	 Elisa N. Flower, MD Community / Neurosurgery 39321
 Ritu Gill, MD, MPH Cardiothoracic Imaging 0000 [Coming Oct 2017]	 David B. Hackney, MD Chief, Neurosurgery 33505	 Mary G. Hochman, MD, MBA Musculoskeletal 33060	 Michael C. Hsu, MD VIR 0000 [Coming Aug 2017]	 Karina Illescas, MD, MDCM Community 31627	 Vladimir Ivanovic, MD Neurology 31624	 Robert A. Kano, MD Abdominal Imaging / Co-Director, Abd Ultrasound 92055	 E. Jane Karlson, MD Breast Imaging 39145	 Jonathan Kim, MD Community / Neuro 92292
 Jonathan Kneefield, MD Neurology 4-2009	 Gerald M. Kotrozy, MD Chief, Nuclear Medicine & Molecular Imaging 31971	 Jonathan B. Kruskal, MD, PhD Chairman of Radiology Abdominal Imaging 91408	 Justin Kang, MD Chief, Community Radiology Director of Network Integration / MSK 91203	 Karen S. Lee, MD Emergency / Abd (MRI) Director, Rad Fellowship Prog 91642	 Robin Levenson, MD Emergency Interim Director, Emergency 32858	 Deborah Levine, MD Vice Chair, Academic Affairs Director, OB/GYN Ultrasound Co-Director, Abd Ultrasound 7-8901	 Diana E. Litmanovich, MD Cardiothoracic Imaging Director, Cardiac Imaging 94016	 Parisa Lotfi, MD Breast Imaging 32040
 Colin McArdle, MD Ultrasound 31968	 Colm McMahon, MD Musculoskeletal 33854	 Pritesh Mehta, MD Cardiothoracic Imaging / Neuro 92293	 Rashmi J. Mehta, MD, MBA Breast Imaging 31567	 Sahil V. Mehta, MD Vascular & Interventional 31701	 Tejas S. Mehta, MD, MPH Chief, Breast Imaging Co-Director, BreastCare Center 33063	 Koenraad J. Mortele, MD Chief, Abdominal Imaging Director, MRI 617-775-5709	 Jenny Ni Mhuircheartaigh, MD Musculoskeletal / Community Imaging 94354	 J. Anthony Parker, MD, PhD Nuclear Medicine & Molecular Imaging 31978
 Amy K. Patel, MD Breast Imaging 31033	 Dinushi S. Perera, MD Community / Abd (MRI) 31570	 Jordana Phillips, MD Breast Imaging 93741	 Vassilios Raptopoulos, MD Abdominal Imaging (CT) 32653	 Dean J. Rodman, MD Community Director of Radiology, Needham 35130	 Rafael Rojas, MD Neurology 34676	 Suzanne F. Roland, MD Community / Neurosurgery 32581	 Barry A. Sacks, MD Vascular & Interventional 90552	 Anmar Sarwar, MD Vascular & Interventional 90857
 Sejal Shah, MD Emergency 94164	 Anuradha (Anu) Shenoy-Bhangle, MD Abdominal Imaging / Community Assoc. Dir., Residency Prog. 92833	 Bettina Siwert, MD Executive Vice Chair of Radiology & Vice Chair, Quality Abdominal Imaging 35791	 Shanetz, Priscilla J, MD, MPH Breast Imaging Assoc. Chair of Education Director, Rad Residency Program Chair, HMS Rad Core Clerkship 90767	 Martin P. Smith, MD Abd Imaging/MRI Director, Community MRI 91218	 Sahil Soman, MD, MS Neurology 33882	 Paul W. Spirm, MD Cardiothoracic Imaging 33484	 Leo Tsai, MD, PhD, MSc Abdominal Imaging / MRI 90858	 Jerse L. Wei, MD Abdominal Imaging / MRI Director, IT Radiology 39014
 Jeffrey L. Weinstein, MD Vascular & Interventional 30165	 Jim S. Wu, MD Chief, Musculoskeletal Imaging & Intervention 38952	 Ged Wieschhoff, MD Musculoskeletal Imaging & Intervention 32426	Please note that Community denotes off-site locations, i.e., community health centers and hospitals (network services) and may also encompass Emergency and Ambulatory & Acute Care Services		 Lynn Kim, MD Community 4-2506	 Phoebe Lewit Ohava, MD Breast Imaging 7-3102	 Marla Rosenfield Darling, MD Breast Imaging 7-3102	 Ari Sacks, MD Community Radiology 4-2506

Per Diem Staff:

Research Faculty & Technical/Adjunct Staff

 David C. Alsop, PhD Director, Basic and Translational Research / Director, MR Research 7-0275	 Alexander Brook, PhD Statistician 7-0273	 Deborah Burstein Mattingly, PhD MR Research 7-3349	 Aaron K. Grant, PhD MR Research 7-3265	 Gillian Lieberman, MD Director, HMS Student Radiological Education 4-2597	 Warren J. Manning, MD Cardiac MR 31144
 Georgeta Mihai, PhD Physicist 7-0175	 Matthew R. Palmer, PhD Manager, Medical Imaging Physics 32214 / 7-0176 / 617-994-1736	 Etta Pisano, MD Breast Imaging Research 7-3266	 Gopal Varma, PhD MR Research 7-0281	 Chun-Shan Yam, PhD Director, Departmental Computing 38076	 Da Zhang, PhD Physicist 92503

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From outside BIDMC: 617-632-7243

Residents (39)

1st Years (11)

 Elisa Franquet Elia, MD 32384	 Kimeya Ghaderi, MD 32386	 Genelle Gittens-Backus, MD 32387	 Kimberlee Hashiba, MD 32388
 Bradford Hastings, MD 32392	 Stanley Kim, MD 32395	 Jose Santiago, MD 31188	 Matthew Shalvoy, MD 32396
 James L. Smith, MD 32401	 Michael Subrize, MD 32422	 Elizabeth Vandeverter, MD 32399	

2nd Years (10)

 Janeiro Achibiri, MD 31552	 Sean D. Burn, MD 31545	 Yi Cao, MD 31546	 Fady El-Gabalawy, MD 31547	 Mohammed Elsayed, MD 31548
 Trevor K. Lewis, MD, MS 31549	 Ronald W. Mercer, MD 31550	 Laura Semine-Misbach, MD 31551	 Pei-Kang (Ken) Wei, MD 31553	 Brian Y. Zhao, MD 31554

3rd Years (8)

 Maureen Frederick, MD 93228	 Michael T. Johnson, MD 93229	 Geunwon Kim-Sun, MD, PhD 93230	 Alexei Kudia, MD 93231
 Bonny Lee, MD, MS 93232	 Michael Luo, MD 93233	 Christopher Maxwell, MD 93234	 Farhana Sharmeen, MD 93235

4th Years (10)

 Thomas Anderson, MD* 95242	 Benjamin Carney, MD 31556	 John Cavanaugh, MD MBS 95243	 Anthony Esparaz, MD* 95245	 Daon Ha, MD 95246
 Christopher Hostage, MD* 95247	 Suma Kannabiran, MD 93236	 Stella Lam, MD 95248	 Jason Song, MD 95249	 Catherine Wei, MD PhD 95251

*Chief Residents: July 2017-June 2018
 They can be reached at RadiologyChiefResidents@caregroup.harvard.edu

Clinical Fellows (20)

 Arwa Badeeb, MD (MBBS) Abd 32404	 A. Fourie Bezuidenhout, MD Neuro 31559	 Andrew D. Chung, MD Abd 32406	 Drew Colucci, MD Neuro 37528
 Matthew Del Guzzo, MD VIR 37529	 Adam J. Fang, MD, MBA Breast 32403	 Andrew S. Fox, MD Abd 32408	 David Khatami, MD, PhD MSK 92291
 Brian H. Lee, MD MSK 32420	 Yehuda Malul, MD Cardiothoracic 32421 [Coming -- Aug 2017]	 Bardia Moosavi, MD Abd 32409	 Pratik S. Patel, DO VIR 32416
 Hannah Perry, MD, MSc Breast 37533	 Jeffrey Rappleye, MD, MS Neuro 32414	 Arvind K. Shergill, MD (MBBS) Abd 32413	 Sarah Schroepfel DeBacker, MD VIR 32418
 Amanda Steinberger, DO VIR 32417	 Jenny Steinkeler, MD Body MRI 37534	 Komal Talati, MD Body MRI 37535	 Jeff York, DO Neuro 32415

Clinical Fellows by Section:

Abd (5) - Badeeb, Chung, Fox, Moosavi, Shergill	MSK (2) - Khatami, Lee
Body MRI (2) - Steinkeler, Talati	Neuroradiology (4) - Bezuidenhout, Colucci, Rappleye, York
Breast (2) - Fang, Perry	VIR (4) - DeBacker-Schoepfel, Del Guzzo, Patel, Steinberger
Cardiothoracic (1) - Malul	

Research Fellows (11)

 Elizabeth Appel, MD paper or tel	 Kevin Beker, MD MRI 7-0296	 Andrés Camacho, MD CT 31622	 Patricia Coutinho de Souza, DVM, PhD MRI 7-0279
 Sujithraj Dommaraju, MD CT 00000	 Alejandro Garces, MD MRI 7-0298	 Adrian Jaramillo, MD MRI 00000	 Zahra Karimi, MD Breast Imaging 7-3138
 David Mwin, PhD Minimally Invasive Therapy Lab (204) 423-9384	 Michael Taso, PhD MRI 7-0290	 Li Zhao, PhD MRI 7-0280	

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Welcome to Academic Year 2017 -

With the new academic year kicking into full gear on July 1st, we are once again delighted to welcome our incoming residents, clinical and research fellows as well as new faculty to our department and offer the following introductions to help everyone bond into our Radiology family.

1st Year Residents (PGY-2)



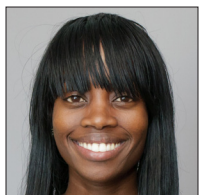
Elisa Franquet Elia, MD - earned her MD and PhD in Diagnostic Imaging from the Universitat Autònoma de Barcelona Faculty of Medicine, Spain and returns to BIDMC where she previously spent more than three years as a research fellow in Nuclear Medicine. In addition to publishing and presenting her work, she

enjoys books, antiques and flea markets, sewing, music, gastronomy, travel, history/politics and sharing them all with friends and family.



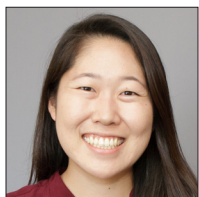
Kimeya Ghaderi, MD - graduated from the The Warren Alpert Medical School of Brown University, Providence, RI and holds a BS in Biochemistry and Molecular Biology from the University of Maryland, Baltimore. She has wide experience as a mentor for both medical students/residents and patients and

has published and presented on resident fatigue, duty hours, and continuity of care. She enjoys crochet, yoga, bhangra dancing, painting, cooking (especially desserts) and also speaks Persian.



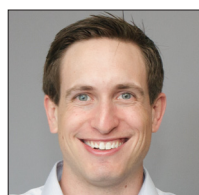
Genelle Gittens-Backus, MD - earned her MD from the Howard University College of Medicine and a BS in Chemistry from Howard University in Wash, DC. In addition to serving as a research assistant, she has also tutored students to pursue careers in science (technology, engineering and math) and helped provide balanced meals to

homeless shelters, transition homes and non-profit organizations. She enjoys sewing, jogging, yoga, paddle boarding, skate boarding, swimming, biking, and dancing.



Kimberlee Hashiba, MD - graduated from University of Hawaii's John A. Burns School of Medicine in Honolulu and earned a BA in Biological Sciences (Neurobiology) and English Literature at Northwestern University, Evanston, IL. As a medical student, she served as a 4th yr tutor in the Problem Based Learning curriculum

as well as volunteer for homeless outreach projects. She enjoys basketball and baking (esp. cheesecakes), traveling, British and Medieval Literature as well as hiking on Oahu's east coast.

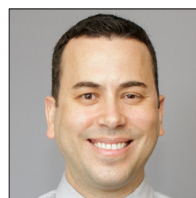


Bradford Hastings, MD, MPH - graduated from the University of Miami's Leonard M. Miller School of Medicine in Palm Beach, FL and earned a BA in Political Science at the University of Richmond, VA. As a medical student, he was elected President of the MD/MPH student body by his peers and also mentored students as part

of the Culture of Change Committee. He enjoys golf and hockey, diving, bungee jumping and traveling.



Stanley Kim, MD - graduated from the University of Maryland School of Medicine and earned a BA in Psychology at Dartmouth College, NH. He plays violin and guitar, and enjoys running, racket sports, swimming, and basketball as well as exploring healthcare startups.



Jose Santiago, MD - earned his MD from The Paul L. Foster School of Medicine, El Paso, TX, his MS in Medical Sciences at the University of North Texas Health Science Center, Fort Worth, and his BS in Biology at University of Texas, San Antonio. He has served as a medic in the US Air Force and volunteered with Habitat for Humanity, El Paso

Zoological Society, and Centers Against Family Violence. Fluent in Spanish, he enjoys geocaching, hiking, mountain biking, sketching, and dancing, aviation, diving, sculpting, and traveling.



Matthew Shalvoy, MD - graduated from The Warren Alpert Medical School, Brown University and earned a BS in Biology at Boston College. He was a mentor in the AI's Pal's Program for 1st yr medical students and served on the Brown Surgery Interest Group and University Orthopedics Free Summer Clinics. He enjoys

tennis, jazz guitar, college football, sports science & analytics, and oyster farming.



James L. Smith, MD - graduated from the Medical College of Georgia and earned a BS in Biology/Pre-Med and Turf Management at the University of Athens, GA. His volunteer experience includes mentoring medical students and working in summer camps, free health clinics and soup kitchens. He enjoys Hiking,

backpacking, landscape photography, golf, reading, cooking, and traveling.



Michael Subrize, MD - earned his MD from Stony Brook University School of Medicine and a BS in Psychology, Neuroscience and Biology from Stony Brook University in New York. As a medical student, he volunteered in medical missions to Ecuador, Columbia, and Peru. He enjoys playing guitar, kayaking, and reading classical literature;

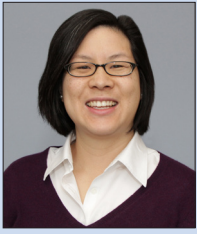
loves to travel and explore new areas and climb mountains.



Elizabeth Vandeventer, MD - graduated from Drexel University College of Medicine in Philadelphia, PA and earned a BS in Biology (with a minor in French) from Boston College. She has served as a peer advisor, medical student mentor and leader/volunteer at homeless shelters and local clinics. In addition

to English, she is fluent in French and enjoys Hiking, skiing, playing soccer, reading crime thrillers, and home brewing beer.

WELCOME NEW 2017 RADIOLOGY FELLOWS - including six 2017 graduating residents!



*Karen S. Lee, MD
Director, Radiology
Fellowship Programs*

We are very happy to welcome a terrific, talented, and diverse group of 20 fellows into our 7 clinical Radiology fellowship programs! 2017-18 promises to be an exciting academic year as we start to implement a variety of initiatives from the ACGME self studies for Abdominal Imaging, Neuroradiology, and Vascular & Interventional Radiology in concert with the Radiology residency program and hopefully apply them to all fellowships throughout the department. Our general call system for fellows this year has been revamped to allow for improved efficiency and shorter report turn-around-times for after-hours exams. I would also like to welcome **Yu-Ming Chang** as the new Neuroradiology Fellowship director and thank **Rafeeqe Bhadelia** for his tremendous efforts these past few years as the outgoing director. We look forward to an educational and productive year!

Abdominal Imaging



Arwa Badeeb, MD (MBBS) – earned her MBBS at King Abdul-Aziz University, Jeddah, Saudi Arabia, completed radiology residency training at the Lahey Clinic in Burlington, MA and an internship in medicine at St. Vincent Hospital in Worcester, MA. Her interests include Quality Improvement and teaching and

gourmet cooking/baking, photography, needlework, swimming and travelling when not working.



Andrew D. Chung, MD – earned his MD at Canada's University of Toronto, Ontario and completed radiology residency training at The Ottawa Hospital, also in Ontario. An experienced academic physician, he has published and presented widely in North America and enjoys graphic design and photo

editing, travel (esp. Singapore and San Francisco) and tennis when not working.



Andrew S. Fox, MD – earned his MD at Michael G. DeGroot School of Medicine, Ontario, Canada and completed radiology residency training at McGill University in Montreal (as well as a BS in anatomy and cell biology). He is certified in Pre-Hospital Trauma Life Support, fluent in French and served as Chair of the

Radiology Interst Group while in medical school.



Bardia Moosavi, MD – earned his MD at MD at St. George's University, Grenada, West Indies and completed radiology residency training at the University of Ottawa, Canada. Active in academic pursuits, he has served as President of the Canadian Student Association in medical school and a Habitat for Humanity volunteer in

the Dominican Republic. He enjoys weight training, jogging, soccer, travel and culture.



Arvind Shergill, MBBS – earned her medical degree at Kasturba Medical College, Manipal, India and completed a radiology residency at the University of Toronto as well as a fellowship in pediatric radiology at The Hospital for Sick Children, also in Toronto. He comes to BIDMC with wide academic experience in research and

teaching as well as Quality Assurance.

Body MRI



Jenny Steinkeler, MD – just completed her residency at BIDMC and earned her MD at Tufts University School of Medicine. Her enthusiasm for teaching stems back to her undergrad days at Brown as a neuroscience TA and continued to solidify as a tutor throughout medical school. Her interests include tennis, running, reading

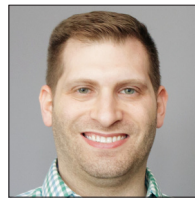
and action movies from the late 80s/early 90s.



Komal Talati, MD – just completed her residency at BIDMC and earned both her undergraduate and medical degrees at Brown University. She brings a keen interest in global health as well as breast imaging to her training. When not working, she enjoys a variety of diverse cultural activities including fine arts

(graphite drawings, for example) and dance (she's formally trained in Bharatanatyam, a classical Indian dance).

Breast Imaging



Adam J. Fang, MD, MBA – completed residency training at Lahey Hospital and Medical Center in Burlington, MA and earned his MD and an MBA in Health Management at Tufts Medical School. He also holds a BA in economics from the University of Virginia, Charlottesville and when not working, he

enjoys skiing, snowboarding, hiking, music and cooking.



Hannah Perry, MD, MSc – just completed her residency at BIDMC and earned her MD at Tufts University School of Medicine as a member of the 9-year BS/MS/MD Tufts University Engineering-Medical Degrees Program. Throughout her education, Hannah has

developed a strong interest in both research and teaching. A native of New England, she enjoys many outdoor activities including long-distance running, sailing and hiking, as well as painting.

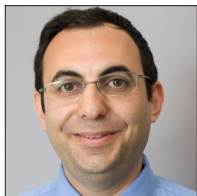
NEW 2017 RADIOLOGY FELLOWS (cont'd)

Cardiothoracic Imaging



Yehuda Malul, MD - completed his residency at Hadassah-Hebrew University Medical Center in Jerusalem and earned his MD at the University of Pavia Medical School, Pavia, Italy. He also holds a BSc in Agriculture (animal sciences) from Hebrew University, Faculty of Agriculture in Rehovot, Israel and has served as medical officer (1st lieutenant, head officer) in rescue and extraction for the Israeli Defense Forces. [Coming Aug 2017]

Musculoskeletal Imaging



David Khatami, MD, PhD - completed his residency and a fellowship in neuroradiology at BIDMC and earned a *Cum Laude* Award for his exhibit at RSNA, 2015; he also co-authored a paper in the American Journal of Radiology and was inducted into the BIDMC Academy of Medical Educators. He earned his MD and a

PhD in engineering at the University of Illinois and we look forward to his continuing achievements as an MSK fellow. In his free time, he enjoys spending time with his wife and playing racquetball and still hopes to learn to play piano for relaxation.



Brian H. Lee, MD - completed his residency at Northwell Health, Lenox Hospital in New York City and earned his MD at Stony Brook University School of Medicine, also in NY. He also holds a BS in biological and environmental engineering with a minor in biomedical engineering. His interests include

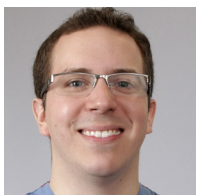
food and finding amazing restaurants, tech gadgets, building computers and small networks, playing cello, tennis, basketball, and swimming.

Neuroradiology



A. Fourie Bezuidenhout, MB ChB - stays on for another fellowship, this time in Neuroradiology. He first came to BIDMC for a fellowship in Cardiothoracic Imaging from South Africa where he earned his medical degree at the University of Pretoria and completed radiology residency training at

Tygerberg Hospital, Stellenbosch University, Western Cape. In 2014, he was selected as 1 of 16 global candidates to participate in RSNA's Introduction to Research for International Young Academics Program in Chicago.



Drew Colucci, MD - just completed his residency at BIDMC and earned his MD at Boston University School of Medicine. He brings a strong background in research and teaching and has continued both these interests during training. He considers himself a music enthusiast and amateur drummer,

enjoying all styles from jazz and swing to rock. He also spends his free time playing sports (like basketball and racquetball) and traveling.

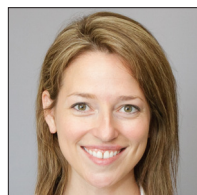
Vascular & Interventional Radiology



Matthew Del Guzzo, MD - just completed his residency at BIDMC having earned his MD at George Washington University School of Medicine and Health Sciences where his fascination of medical technology led him into the field of radiology. In addition, music has always been an enriching part of Matthew's life. He started playing the flute at the age of 7, competing at both national and international levels. He also enjoys a variety of sports, including downhill skiing, racquetball and soccer.



Pratik S. Patel, DO - completed his residency at Temple University Hospital, Philadelphia and earned his DO at Rowan University School of Osteopathic Medicine, Stratford, NJ. Dr. Patel speaks Gujarati and is interested in space exploration/travel, aeronautics, astronomy and tennis.



Sarah Schroeppel DeBacker, MD - completed her residency in Diagnostic Radiology at the University of Kansas Medical Center and her MD at the University of Kansas School of Medicine, Kansas City. When not working, she enjoys competing in half marathons, hiking, weight lifting and pickle ball, cooking and travel.



Amanda Steinberger, DO - completed her residency at Mercy Catholic Medical Center in Darby, PA and earned her DO at Philadelphia College of Osteopathic Medicine. Her interests include running (having completed five half-marathons) and playing squash.



Jeffrey Rappleye, MD, MS - completed his residency at UMASS Worcester and earned his MD at Albany Medical College, NY and an MS and BS in bioengineering at the University of California, San Diego. Dr. Rappleye also worked as a Systems Engineer at Applied Biosystems in Foster City, CA before medical school and recently published on high-resolution MRI intracranial atherosclerosis imaging phantoms in the Journal of Neurointerventional Surgery.



Jeffrey M. York, DO - completed his residency at Tufts Medical Center, Boston and earned his DO at Ohio University's Heritage College of Osteopathic Medicine and a BS in biochemistry at Ohio State University in Columbus.

Research Fellows



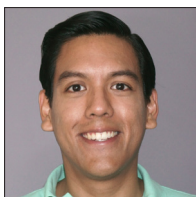
VIR Research Fellow

Elizabeth Appel, MD - earned her medical degree from the University of Heidelberg, Germany and comes to BIDMC from the University Hospital Düsseldorf's department of diagnostic and interventional radiology. Fluent in both English and German, she is also skilled in graphic mnemonics for medicine and has served as a Teddy Doc at the Teddy Bear Hospital in Mannheim as well as a voley ball coach in Templin, Germany. [Coming Aug 2017]



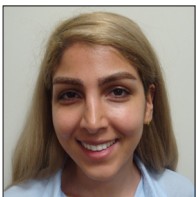
CT Research Fellow

Sujithraj Dommaraju, MD (MBBS) - earned his medical degree from Meenakshi Medical College Hospital and Research Institute, Tamil Nadu, India and has most recently served as the Duty Medical Officer at Lalitha Hospital in Hyderabad. With the goal of pursuing a career in radiology, Dr. Dommaraju will be mentored by Dr. Olga Brook, BIDMC Director of Clinical CT. When not working, Dr. Sujithraj's interests include watching and playing cricket, watching movies and browsing the internet.



Research Fellow in Clinical MRI

Adrian Jaramillo, MD - earned his MD at the Escuela de Medicina del Tecnológico de Monterrey, Mexico which also included clinical experience in VIR at Yale School of Medicine and inpatient psychiatry at Connecticut Mental Health Center as well as hematology, interventional cardiology and geriatrics at Baylor College of Medicine in Houston. Fluent in Spanish, his interests include avante-garde medicine and global health and when not working, he enjoys all sports and literature, especially Latin American and post-modernist authors.



Breast Imaging Research Fellow

Zahra Karimi, MD - earned her MD at Isfahan University of Medical Sciences and Health Services in Iran. She comes to BIDMC to be mentored by Dr. Etta Pisano and brings experience in leading edge testing services in clinical trials, corporate wellness programs and molecular diagnostics at Massoud Laboratory in Tehran, Iran. Outside of work her interests include swimming and jogging, all types of music and literature, especially poetry.

Clinical Research Assistants



MRI Clinical Research Assistant
Grace Vincent, BA

Grace is from Charlotte, Vermont and she joined the MRI Research team in June, 2017. She is a recent graduate from the University of Pennsylvania, where she earned a Bachelor of Arts degree in Health and Societies. She is excited for all of the new running trails in Boston and plans to pursue a post bacc before applying to medical school. As a Clinical Research Assistant for Director of Basic and Translational Research and MRI Research, Dr. David Alsop and MRI Research Program Manager, Meaghan Fox, Grace will maintain regulatory documents for MRI research and be responsible for the screening, recruiting and consenting of MRI research study participants as well as serving as principle correspondent to the hospital's Institutional Review Board.



Breast Imaging Clinical Research Assistant
Layla Rahimi, MS

Layla joins the Radiology department as a Clinical Research Assistant II working primarily on the Breast Imaging studies. Layla worked in Emergency Medicine research at Boston Medical Center before coming to BIDMC. In her free time, she enjoys visiting family, watching the Red Sox, and traveling.

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.

Faculty	Breast Jobs	IRTI Region
Residents & Fellows	CT	Clinics
Administrators	DR	Chestnut Hill
Informatics	IR/MS	Leighton Community
Scheduling	MRI	Northline Community
Support Services	Nuc Med	
	ISVASC	

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

NEW 2017 FACULTY - by Division



Breast Imaging

Amy K. Patel, MD - comes to BIDMC following her fellowship in breast radiology at the Mallinckrodt Institute of Radiology, St. Louis and residency at the University of Kansas, Wichita. She earned her MD and a BA in liberal arts the University of Missouri, Kansas City. Her interests include recruiting women in Radiology, politics and radiology advocacy; as well as music (opera, symphony and playing the piano and alto saxophone), impressionist art, sports, running, traveling, and Victorian literature.



Community Radiology / Neuro

Jonathan Kim, MD - earned his MD at Washington University in St. Louis School of Medicine and brought with him a strong background in teaching and clinical research. He just completed his residency at BIDMC where he has built life-long friendships and become a strong clinical radiologist. With his interest in technology, Jonathan continues to be a great fit for our ongoing iPad initiative.



Community Radiology / Neuro

Pritesh J. Mehta, MD - just completed his residency at BIDMC after graduating from Case Western Reserve University School of Medicine. He also completed an executive business program at Harvard Business School and plans to carry over and integrate many of those relationships within Radiology to help foster innovation at BIDMC. He brings a strong passion for teaching and scholarship, and when he's not chasing after his three-year-old toddler, loves to ski and play basketball.



Community Radiology / Abd (MRI)

Dinushi S. Perera, MD - just completed a fellowship in Body MRI here at BIDMC and completed residency at Pennsylvania Hospital, Philadelphia. She earned her MD from Tulane University School of Medicine in New Orleans and holds a BS in Biology/Biochemistry and Spanish as well as an MS in Physiology and Biophysics from Georgetown University, Wash. D.C. When not working, she enjoys cooking, dance and travel.



Cardiothoracic Imaging

Rita R. Gill, MD, MPH - comes to BIDMC from Brigham & Women's Hospital (BWH) where, in addition to serving as a radiology attending, she also served as a Thoracic Radiologist in the International Mesothelioma Program and a member of the Center of Evidence-Based Imaging (CEBI). She earned her medical degree from the Government Medical College, Amritsar, India and completed her residency at Barnard Institute of Radiology and Oncology, Madras Medical College, Chennai, India, a fellowship in Oncoradiology at the Dana Farber Cancer Institute and another fellowship in Cardiothoracic Radiology at BWH.



Community Radiology

Ari Sacks, MD - earned his MD at Boston University School of Medicine (*magna cum laude*) and a BA in Behavioral Neuroscience (*with High Honors*) at Lehigh University in Bethlehem, PA. He completed residency at Brigham & Women's Hospital, Boston with a concentration in Abdominal Imaging and Intervention as well as a fellowship in Vascular and Interventional Radiology here at BIDMC. He has also served as a volunteer in the Global Service Corps teaching English in Thailand and as Team Captain of the BWH intramural basketball league. Welcome back, Dr. Sacks!



Interventional Radiology [Coming Aug 2017]

Michael C. Hsu, MD - comes to BIDMC following his fellowship in interventional radiology at Mount Sinai Hospital, NY, NY and residency at the Hospital of the University of Pennsylvania, Philadelphia. He earned his MD at Georgetown University School of Medicine, Wash DC and a BS in chemical engineering at the University of Virginia, Charlottesville. He enjoys cooking and dining out with family/friends, live music, sports (especially soccer, skiing, and college football/basketball), traveling



Musculoskeletal Imaging & Intervention (MSK)

Ged Wieschhoff, MD - comes to BIDMC following completion of residency training and a fellowship in musculoskeletal imaging and intervention at Brigham & Women's Hospital. He earned his MD at the University of Pennsylvania School of Medicine, Philadelphia and a BA in neuroscience from Bowdoin College in Brunswick, ME. He has also served as a camp counselor and enjoys travel, softball, tennis, squash, skiing and sailing and has played varsity level ice hockey and golf at Bowdoin college.

Coming October 2017

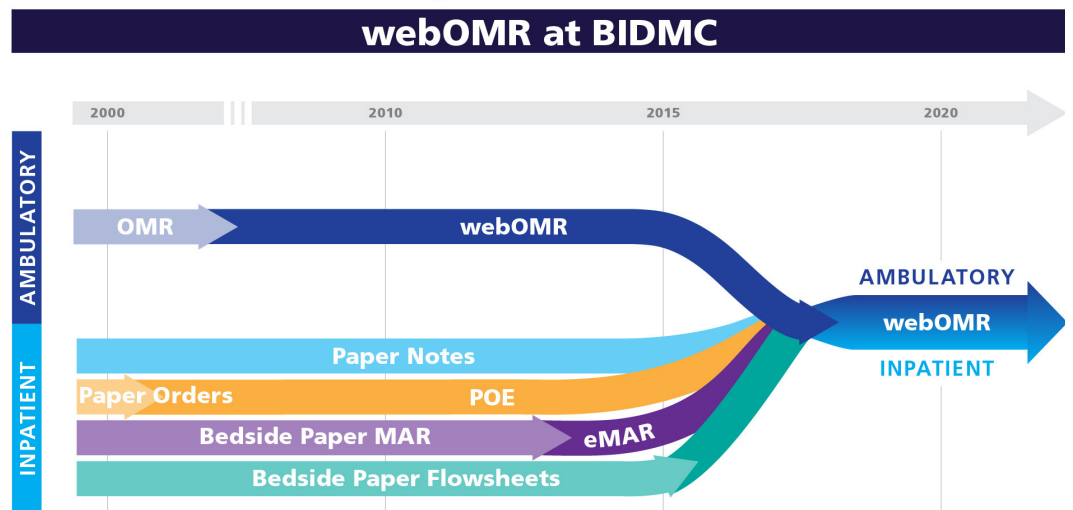
<https://portal.bidmc.org/Intranets/InformSys/WebOMR-Support/Inpatient-Overview.aspx>

The next major phase of BIDMC's multi-year initiative to transform inpatient paper charts to a fully electronic medical record launches Tuesday, June 13, with the migration of inpatient clinical notes to webOMR, BIDMC's online medical record application.

This project is ongoing, and we will continue to communicate details about additional features and components as soon as they are available.

For more information, please contact:
 Dave Feinbloom, MD, dfeinbloom@bidmc.harvard.edu
 Tricia Bourie, RN, tbourie@bidmc.harvard.edu

Last edited by esloan on 6/12/2017



webOMR = Web Online Medical Record
OMR = Online Medical Record
POE = Electronic Physician Order Entry
eMAR = Electronic Medication Administration Record
eFlowsheets = Electronic Flowsheets

FREQUENTLY ASKED QUESTIONS *[Sample]*

<https://portal.bidmc.org/Intranets/InformSys/WebOMR-Support/Inpatient-Overview/FAQs.aspx>

Q: webOMR has been around for a long time. What's changing?

A: webOMR is the application providers use to review labs, radiology reports, discharge summaries, and ambulatory clinic notes, as well as many inpatient consults and allied health provider notes (ex. PT, OT, Nutrition, etc.). With the introduction of functional enhancements to the application to better address workflow, all inpatient MD, NP and PA clinical notes (H&Ps, consults, progress, and final) will now be completed electronically in webOMR. Electronic notes written in webOMR will no longer be printed and placed in the paper chart.

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Q: What's the new functionality?

A: New features include:

- A new tab structure and care setting that allow for viewing Outpatient, Inpatient and ED encounters separately, or all together;
- Additional note types unique to the inpatient setting (ex. Initial, Final Sign-off, Event, etc.);
- The ability to import inpatient data (medications, vital signs, etc.) into a note.

Some of this work is complete and some of it is still in development - to be released over the coming weeks and months. We have enough of the core functionality in place, however, to implement this policy change.

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Q: Will I still have to put a copy of my note into the paper chart?

A: No. Beginning June 13, 2017, notes written in OMR will no longer need to be printed and placed in the paper chart.

[Go to Top](#)

Q: Do I have to use OMR or can I still write notes in the paper chart?

A: As of June 13, 2017, all MD, NP and PA notes must be written using OMR. The only exceptions will be notes that do not yet have a sufficient electronic solution – specifically:

- Progress notes from the following subset of surgical services:
 - ACS (Acute Care Surgery/Trauma)
 - Transplant
 - Vascular Surgery
 - McDermott
 - West 3
 - Blackburn
 - Thoracic Surgery
- Multi-author notes, such as Trigger Notes
- Multipage forms, such as those used by Trauma
- Procedure notes written on Medical Records-approved forms

IMPORTANT: The surgical services listed above will complete electronic notes in webOMR for any consultations (initial and daily) on patients outside of their service. For patients on these surgical services, daily progress notes will remain on paper on a temporary basis, as enhancements are developed to allow them to go fully electronic.



Radical Views... from the Department of Radiology

**GRADUATION
SUPPLEMENT**

Volume 10, Number 1
JULY 2017



Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

24th Annual Fleischner Graduation Dinner 2017: EMC CLUB, Fenway Park



Fenway is for family: This year we were honored to have faculty Jonny Kruskal bring his daughter Jessica, Diana Litmanovich her son Shai Branover, and Sam Yam his son Jonathan!

Fleischner 2017 - Graduating Residents



This year graduating residents were asked to select a faculty member whom they enjoyed working with, completed a project with, or a teacher or researcher they admire to present them with their certificate and say a few words about them. It was an honor to be chosen by a resident to help them mark this exciting milestone and faculty like Mary Hochman went out of their way to express their appreciation of each resident!

What's Next for the 2017 Graduating Residents: (5 out of 10 are staying at BIDMC)

Christine K. Chen, MD - IR Fellow, University of Virginia

Andrew T. Colucci, MD - Neuro Fellow, BIDMC

Matthew F. Del Guzzo, MD - VIR Fellow, BIDMC

Jawad S. Hussain, MD, MSc - VIR Fellow, University of Michigan

Amanda T. Kappler, MD - Breast Imaging Fellow, George Washington University

Ning Lu, MD - Neuro Fellow, New York University

Quang H. Nguyen, MD - IR Fellow, Johns Hopkins

Hannah Perry, MD, MSc - Breast Imaging Fellow, BIDMC

Jennifer A. Steinkeler, MD - Body MRI Fellow, BIDMC

Komal K. Talati, MD - Body MRI Fellow, BIDMC



- 20 CT and CTA heads and c-spines
- 15 CT torsos
- 3 pan spine MRI's
- 15 ultrasounds
- 30 plain films
- 1 barium swallow
- 1 HIDAA or cardiac scan
- 3 second reads
- Umpteen protocols
- Gazillion phone calls

Fleischner 2017 - Graduating Fellows and Where They are Going Next



Abdominal Imaging

Fernanda Caseira Cabral, MD - Private practice at South Shore Hospital, South Weymouth, MA

Patricia C. Jo, MD - Private practice: RCA Mayfair Radiologists, Regina Qu'Appelle Health Region, Saskatchewan, Canada

Laura E. Miller, MD - Private practice: South Shore Radiology Associates, South Weymouth, MA

Robert E. Ruef, MD - Private practice: Body Radiologist, Vancouver Radiology Associates, Portland, OR

Azize Sahin, MD - Private Practice: Dynamic Imaging Associates, Boston, MA

Yifei Wang, MD - Attending, St. Joseph's Health Care, Toronto, Canada

Body MRI

David Becker-Weidman, MD - Private practice: Great Lakes Medical Imaging (SUNY Buffalo affiliate), Buffalo, NY

Tarek Hegazi, MD - Returns to Saudi Arabia

Dinushi S. Perera, MD - Community Radiologist/Abd, BIDMC

Breast Imaging

Rashmi J. Mehta, MD, MBA - Breast Imaging Attending, BIDMC

Sean D. Raj, MD - Radiologist, Baylor University Medical Center, Dallas, TX

Nancy Resteghini, DO - Radiologist, Harvard Vanguard in Kenmore Square Boston

Cardiothoracic

A. Fourie Bezuidenhout, MD - Neuroradiology Fellow, BIDMC

MSK

Allen Prober, MD - Private practice: Ramapo Radiology, Suffern NY

Yuri Shif, MD - MSK Radiologist, Saint Luke's Hospital, Kansas City, MO

Neuroradiology

David Khatami, MD, PhD - MSK Fellow, BIDMC

Jonathan Kim, MD - Community Radiologist, BIDMC

Pritesh Mehta, MD - Cardiothoracic Imager, BIDMC

Archana Siddalingappa, MD - Neuroradiologist, Radiology Association of North Texas, Dallas

VIR

Roi Bittane, MD - Private practice: Interventional and Diagnostic Radiology, Palm Beach, FL

Ahmed Fadl, MD - Private practice: Foundation Radiology, Pittsburgh, PA

Patrick Redmond, MD - Private practice, L&M Radiology, Lawrence, MA

Brandon Shearer, DO - Radiology Attending, St. Luke's University Health Network, Bethlehem, PA

Fleischner 2017 Awards



Hannah Perry - received both the Humanism and the Andrew Berezin Awards in addition to recognition as a Chief Resident and certificates for completion of mini-fellowships in MSK and MRI!

Bettina Siewert introduces New Chief Residents for academic year 2017- 2018: Anthony Esparaz, Chris Hostage and Tom Anderson [inset]. Going forward, they can easily be reached at the group email address: RadiologyChiefResidents@caregroup.harvard.edu



Excellence in Teaching Medical Students: Anthony Esparaz* [3rd yr res] and Christopher Maxwell [2nd yr res].

*Anthony also received the Fleischner Research Award now presented at Morris Simon Research Day (5/17/17).



Fellow of the Year Award: Cardiothoracic Imaging Fellow Fourie Bezuidenhout, MD with his section



Residents received a baseball to commemorate their graduation and our Medical Education Programs Manager Tabitha Fineberg got one signed by all the residents for her first year at BIDMC!



Excellence in Teaching Medical Students (Staff) - Gillian Lieberman, MD and Paul Spirn, MD [Not shown: Gillian Lieberman]

Fleischner 2017 Awards (cont'd)

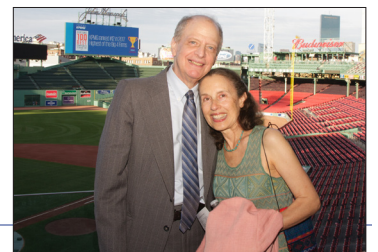


A new Award voted upon by residents for their Excellent Contributions to the Teaching Program was presented to 10 faculty members [L to R]: Jeff Weinstein Bettina Siewert (who also won the Norman Joffe Award), Jim Wu, Jenny Ni Mhuirheartaigh, Yu-Ming Chang, Colm McMahon, (who also won the Ferris Hall Teacher of the Year Award), Alex Bankier, Leo Tsai - as presented by new Chief Residents Anthony Esaparaz and Chris Hostage. Not shown: Flower and Sahil Mehta.



Neuroradiology was recognized with the Section of the Year Award

Special thanks to Andrea Baxter for sharing her love of Fenway Park and helping us find everything. Please contact Michael Larson (mlarson1@bidmc.harvard.edu) for so many other photos we didn't have room to include here in this issue.



Residents Breakfast Awards - Thursday June 22, 2017

Awards were presented to the 4th Years for the following accomplishments:

Christine Chen - The **Wonder Woman** award for her ability to look like a normal resident at the workstation but her super abilities in the kitchen, as chief resident, taking call, and being a friend.

Andrew Colucci - The **Submarine** award to the resident most likely to swim under the radar.

Matthew Del Guzzo - The **Oscar** award for his dramatic monologues.

Jawad Hussain - The **Godfather** award for his wheeling and dealing, and always having his finger on the pulse of the department.

Amanda Kappler - The **Rock** award for being such a rock-solid resident, always stepping up and offering to help out.

Ning Lu - **Vogue** award for the best-dressed senior resident.

Quang Nguyen - The **Phantom Gourmet** award to the resident most likely to be caught eating out and who knows the best places in town to eat.

Hannah Perry - The **Mother Hen** award for taking care of every resident as though he or she were her own child; making sure they had everything they needed and who fought for everything they deserved.

Jennifer Steinkeler - The **Secret Weapon** award: She looks unassuming but is an absolute secret weapon when it comes to reading the list, call, chief duties, and overall awesomeness.

Komal Talai - The **Princess Leia** award to the resident who kept fighting and persevering even when times were tough.



Other Awards:

Bonny Lee - **Anthony Bourdain Parts Unknown** award to our most experienced and committed tour guide.

Ken Wei and **Sean Burn** - **Mooch** award to residents who attended the most applicant dinners.

Janeiro Achibiri - **Teen Vogue** award to the best-dressed female junior resident.

Chris Maxwell - **GQ** award to the best-dressed tour guide.

Farhana Sharmeen - **Mrs. Clean** award to the cleanest resident on any service.

Laura Misbach - **Super Mom** award to the resident who has it all together and has been an exemplary role model of the work/life balance.

Tom Anderson - **R2-D2** award to the resident who can just make anything technological work even under the greatest of pressures.

Tabitha Fineberg - The **Gandalf** award was given to Tabitha "for saving us and helping us get out of all sorts of sticky situations this year, as Gandalf did for the hobbits in Lord of the Rings!"



Guidelines,
References

A safety checklist is a type of standardization proven to help improve patient care and avoid human error. It allows practitioners to break down complex procedures, detect potential errors before they lead to harm and proceed knowing all necessary prior steps have been completed.

As the World Health Organization notes, "Human error in the complex world of modern medicine is inevitable. Harm to patients as the result of these errors is not."

ACP members and Leadership Academy participants, **Felipe Collares, MD** and Mehru Sonde, MD, FACP, have developed a phlebotomy specific checklist for ACP members to use in their daily practice. The Assessment, Care, Plan, or ACP Checklist, walks practitioners through each step of the process from evaluation to post-procedure planning.

Phlebotomy

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Patient safety in phlebotomy: The ACP Phlebotomy Safety Checklist

Felipe Birchal Collares , Mehru Sonde , Kenneth Harper , more...

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Abstract

Objectives

To assess the current use of safety checklists among the American College of Phlebotomy (ACP) members and their interest in implementing a checklist supported by the ACP on their clinical practices; and to develop a phlebotomy safety checklist.

Method

Online surveys were sent to ACP members, and a phlebotomy safety checklist was developed by a multispecialty team through the ACP Leadership Academy.

Results

Forty-seven percent of respondents are using a safety checklist in their practices; 23% think that a phlebotomy safety checklist would interfere or disrupt workflow; 79% answered that a phlebotomy safety checklist could improve procedure outcomes or prevent complications; and 85% would be interested in implementing a phlebotomy safety checklist approved by the ACP.

Conclusion

A phlebotomy safety checklist was developed with the intent to increase awareness on patient safety and improve outcome in phlebotomy practice.

<http://www.phlebotomy.org/member-resources/publications/acp-phlebotomy-safety-checklist>



Infections of the Gastrointestinal Tract



pg 63

Michele Perillo, MD, David Becker-Weidman, MD,
A. Fourie Bezuitehout, MD, B. Siewert, MD, and Ronald L. Eisenberg, MD

Pseudomembraneous Colitis

Pseudomembraneous colitis (PMC) is caused by *Clostridium difficile*, a gram-positive bacillus, most commonly developing in patients after long or multiple courses of antibiotics. The clinical picture varies from mild diarrhea to fulminant colitis with toxic megacolon and perforation. Treatment typically consists of oral vancomycin, with severe or refractory cases sometime requiring surgical intervention.¹

The most common imaging findings on computed tomography (CT) is bowel wall thickening, which can be substantial.¹ In the appropriate patient population, wall thickness > 7 mm is highly suggestive of PMC.² Wall thickening due to edema

ileocolitis are gram-negative anaerobes.^{5,7-9} Typhoid and paratyphoid serotypes of *Salmonella* cause enteric fever, whereas most other serotypes cause enterocolitis.^{7,10} Nontyphoidal salmonella infection is responsible for approximately 3 million deaths worldwide annually and 200 million to 1.3 billion cases of enterocolitis.⁷ *Yersinia enterocolitica* usually causes mild to moderate ileocolitis, with a clinical syndrome of fever, abdominal pain, and diarrhea.⁸ Definitive diagnosis is usually made by stool sample analysis,¹¹ and individuals with β -thalassemia and other conditions leading to iron overload are especially prone to developing invasive *Yersinia* infections and associated complications.^{8,12} *Shigella* infection is typically spread via fecal-oral transmission⁹ and presents with abdominal pain and fever with

Magnetic Resonance Imaging of Hepatic Abscesses



pg 73

Komal Talati, MD, and Karen S. Lee, MD

Introduction

The infiltration of normal or diseased hepatic parenchyma by bacteria or microorganisms can result in a cavitated lesion, which is defined as a hepatic abscess. These microorganisms can enter into the hepatic parenchyma via the biliary system, hematogenously, or through direct contiguous spread from adjacent structures. In the Western world, pyogenic hepatic abscesses are the most prevalent form; in Southeast Asia and Africa, amebic hepatic abscesses are most common.¹ Underlying biliary disease, comorbidities (eg, diabetes and immunocompromised states), and severity of hepatic involve-

multiple groups of microabscesses clump together to resemble a honeycomb.⁸ The groups then coalesce together and form 1 larger cavity (“cluster sign”) (Fig. 1). At this stage, a pyogenic abscess may demonstrate the “double target” sign, which reflects various layers of signal on T2-weighted imaging within the lesion. Central pus due to liquefaction necrosis results in mild T2 hyperintensity. Surrounding this is a T2 hypointense inner granulation and outer collagenous layer, and peripheral compensatory hyperemia that appears as T2 hyperintense perilesional edema (Fig. 2). The degree of central T1 hypointensity varies based on the amount of protein content within the abscess.^{3,8} On postcontrast imaging, intense early enhance-

Imaging of Infections of the Urinary and Male Reproductive Tracts



pg 83

Jennifer A. Steinkeler, MD, and Maryellen R.M. Sun, MD

Introduction

Infections of the genitourinary tract in adults are the most common urologic disease in the United States, accounting for a large number of yearly office and emergency department visits. A broad overview of the pathogenesis and imaging features of both common and rare genitourinary infections is important because timely diagnosis and treatment is essential for favorable clinical outcomes.

step to detect a possible obstructing stone as the cause of infection. The classic pattern of acute uncomplicated pyelonephritis on contrast-enhanced CT is the “striated nephrogram”—one or more, wedge-shaped areas of decreased attenuation that either focally or diffusely involve the medullary and cortical surface of the kidney, and are separated by normally enhancing renal parenchyma (Fig. 1). These areas of decreased attenuation are thought to represent poorly functioning renal parenchyma secondary to tubule obstruction,

Imaging of Obstetrical and Gynecological Infections



pg 90

Jawad S. Hussain, MD, MS, Diamanto (Amanda) Rigas, MD, and Olga R. Brook, MD, FSCBTMR

Introduction

Infections of the female genitourinary tract are important because of their frequent prevalence in premenopausal women and the potential to cause recurring and deleterious effects on female reproduction. Pelvic inflammatory disease (PID) is the most common female genital tract infection, though it is important to also be aware of postpartum, intervention-related, and other less-common infections.

can be of use in pregnant patients, whose adnexa may be obscured on US.

Ultrasound

US has the advantage of being quick, ubiquitous, and interactive. Early findings of PID are nonspecific, but can include enlargement of the uterus or ovary, which may have a polycystic appearance. As the infection progresses, endoluminal fluid in the uterine cavity may appear anechoic to mildly

Image-Guided Treatment of Abdominal and Pelvic Abscesses



pg 95

Diamanto (Amanda) Rigas, MD, and Olga R. Brook, MD, FSCBTMR

Introduction

Many infectious etiologies may result in abdominal and pelvic fluid collections, such as diverticulitis, appendicitis, pancreatitis, and inflammatory bowel disease, as well as postsurgical states. These collections, usually diagnosed initially by computed tomography (CT) or ultrasound, were

question is whether it should be drained. Small collections (<2-3 cm) can frequently be treated with a trial of antibiotics without drainage. A sterile collection, such as a hematoma, should not be drained, because the placement of a catheter introduces skin flora that can colonize a previously sterile collection. However, aspiration for culture of small fluid collections can be helpful to identify the underlying pathogen.

Infections in the Breast—Common Imaging Presentations and Mimics



pg 101

Monica D. Agarwal, MD, Shambhavi Venkataraman, MD, and Priscilla J. Slanetz, MD, MPH

Introduction

Although breast imaging focuses on cancer detection, infections of the breast may occur, especially during the postpartum period. They can occur at any age and be related to a variety of predisposing conditions such as body piercing, smoking, immunocompromised state, or underlying systemic disease. Although often localized to the breast as an acute or chronic primary process, some systemic processes can involve the breast as a secondary site.

Cornynebacterium, tuberculosis, or other mycobacteria, fungi, and parasites should be considered.⁵

Puerperal or lactational abscesses develop in primiparous women and represent 14%-59% of all abscesses. Mastitis occurs in up to 25% of breast-feeding women, with a breast abscess developing as a complication in up to 10%.^{2,6,7} In puerperal states, stagnant milk is an excellent culture medium, with the infection often spreading from the nose and throat of the nursing infant through a cracked nipple or skin abrasion.⁸ This type of abscess often responds well to antibiotics and drainage.

Uncommon Infections in the Breast



pg 108

Monica D. Agarwal, MD, Shambhavi Venkataraman, MD, and Priscilla J. Slanetz, MD, MPH

Introduction

In addition to common breast infections and their mimics, less-common infections affecting the breast may develop as the primary site of disease or as secondary sites in systemic infections, including tuberculosis and parasites.

ulceration; fixation to the skin, muscle, or chest wall; breast edema; and axillary adenopathy.^{1-4,6} These appearances may make it extremely difficult to distinguish TB breast infection from carcinoma. The mass often develops in the central breast or upper outer quadrant, given its proximity to axillary lymph nodes.^{1,3,4} Multiplicity of masses and bilateral involvement is

Nuclear Medicine Imaging of Infection



pg 114

Caitlin M. Connolly, MD,* and Kevin J. Donohoe, MD[†]

Historically, nuclear medicine was the primary modality for imaging infection. With more recent advances in cross-sectional imaging technology, computed tomography (CT) and magnetic resonance imaging (MRI) have largely replaced nuclear medicine studies for the initial diagnosis and characterization of infection. However, in specific clinical scenarios, nuclear medicine continues to be an important technology for the localization and diagnosis of infection as a first-line test or as a secondary modality when other testing results are nondiagnostic.

Approximately 24 hours after injection, the normal biodistribution of In-111-labeled WBCs shows tracer uptake in the spleen, liver, and bone marrow. Imaging is typically conducted 18-24 hours after injection to allow time for the radiolabeled WBCs to accumulate in the area of infection and for the background blood pool and pulmonary activity to clear.²

An important clinical indication for WBC scanning is the patient with fever of unknown origin (FUO), particularly when cross-sectional imaging has failed to identify a cause and an infectious or inflammatory etiology is suspected. The WBC

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 2016 and paper publication in 2017; and 2) doi addresses are only included until citations are updated with hard copy page citations; and 3) Underlined names = relatively current trainees/alumni; **BOLD** names = Faculty/Staff

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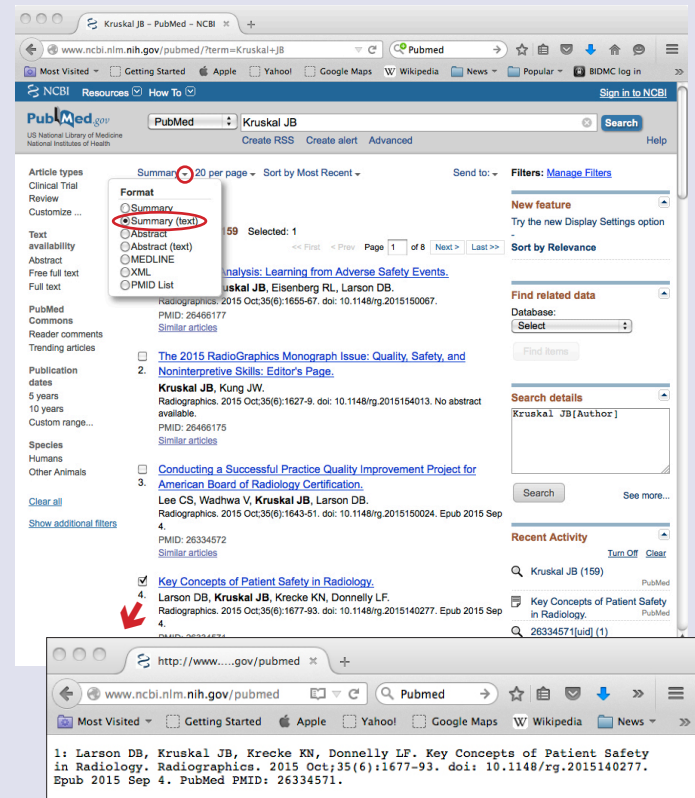
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