

Radical Views...

from the Department of Radiology

December 2011

| Mon | Tues | Wed | Thurs | Fri |
|---|---|---|--|--|
| 7:30 - 9:00 Cardiac Imaging Week 3:00-4:00 ED section meeting (monthly) [ED annex, WCC] call Sheila Blalock 4-2506 | 7:30 - 9:00 GI & GU 1:00-2:00 MRI meeting (Weekly) [TCC-484] | 7:30 - 9:00 GI & GU Weekly Wed Section Meetings: 11:00-12:00 MSK clinical conference 12:00-1:00 Thoracic Imaging, GI Oncology/GU Oncology 3:00-4:00 Mammo [TCC-484] | 1 7:30 - 9:00 RSNA Weekly Thurs Section Meetings: 12:00 - 1:30 Abd [WCC-354] 12:00-1:00 MSK | 2 7:30 - 9:00 RSNA |
| 5 7:30 - 8:15 MRI of the Knee (Dr. Wu) 8:15-9:00 Bone Tumours (Dr. Hochman) | 6 7:30 - 8:15 MRI of the Shoulder (Dr. Yablon) 8:15-9:00 Soft Tissue Tumours (Dr. Wu) 2:00-3:00 West Med-Rads | 7 7:30 - 8:15 MRI of the Elbow (Dr. Didolkar) 8:15 - 9:00 Bone Marrow (Dr. Kung) | 8 7:30 - 9:00 Professionalism (Dr. Slanetz) | 9 8:00-9:00 Grand Rounds (Grace Parraga, PhD - Univ of Western Ontario) |
| 12 7:30 - 9:00 Breast Imaging | 13 7:30 - 9:00 Breast Imaging 10:30-11:30 Nuc Med meeting (GZ-103) | 14 7:30 - 9:00 Breast Imaging 7:15 - 8:00 US meeting (WCC-304A Gallery) | 15 7:30 - 9:00 Breast Imaging | 16 8:00 - 9:00 QA Grand Rounds |
| 19 7:30 - 9:00 GI & GU | 20 7:30 - 9:00 GI & GU 8:00 - 9:00 IR meeting [West Recovery Rm] 10:30-11:30 Nuc Med meeting (GZ-103) 2:00-3:00 West Med-Rads | 21 7:30 - 9:00 GI & GU | 22 7:30 - 9:00 GI & GU | 23 7:30-9:00 No Grand Rounds |
| 26 | 27 7:30 - 9:00 No Conference 10:30-11:30 Nuc Med meeting (GZ-103) | 28 7:30 - 9:00 No Conference | 29 7:30 - 9:00 No Conference | 30 7:30 - 9:00 No Conference |

DECEMBER GRAND ROUNDS: Visiting Professor



Grace Parraga, PhD - Functional MRI of Pulmonary Disease: New Tools to Answer Old Questions
Friday, December 9 • 8:00-9:00 am Sherman Auditorium

Dr. Grace Parraga completed her PhD in Biochemistry at the University of Washington in Seattle. Following post-doctoral studies at the Biozentrum, University of Basel, Switzerland, she joined F. Hoffman La Roche AG as a Scientist in Pharmaceutical Research and Development, returning to academic research at The University of Western Ontario, Canada in 2004 and the Imaging Research Laboratories of the Robarts Research Institute.

Currently, Dr. Parraga’s research is focused on understanding the underlying mechanisms of human disease progression and regression using novel imaging methods. An important goal of her research is the identification and validation of radiological intermediate endpoints of respiratory disease as potential therapeutic targets for use in clinical trials. Her lab is developing hyperpolarized 3He, 129Xe and 1H Magnetic Resonance Imaging (MRI), acquisition methods as well as quantitative image processing software tools.

Dr. Parraga’s work has been published in high impact journals including Science, the Proceedings of the National Academy of Sciences, the Journal of Applied Physiology, Radiology, Investigative Radiology and the American Journal of Respiratory and Critical Care Medicine; she also currently serves as a member of the Canadian Institutes of Health Research (CIHR) and National Science and Engineering Research Council (NSERC) and NIH grant peer-review panels and her lab is currently funded by CIHR, NSERC and Ontario Institute for Cancer Research.

Learning Objectives of today's Grand Rounds are: 1) introduce functional MRI methods to better understand pulmonary disease, 2) describe the limitations of novel imaging methods for translational and clinical use, and, 3) present the opportunities for new non-invasive “imaging” understandings, diagnosis and monitoring of lung disease, biology, mechanics and pathophysiology.



FROM THE CHIEF
Jonathan B. Kruskal, MD PhD

RSNA Update*

- At RSNA, the year's biggest professional society meeting, we were well-represented with our faculty teaching 15 refresher courses and moderating 11 scientific sessions; presenting 31 talks (11 by trainees) and 43 posters (25 with trainees as first authors).

2011 graduating resident **Cathy Wells** won the Research Trainee Prize in Breast Imaging for "Does Mismatch in Breast and Detector Size during Screening and Diagnostic Mammography Result in Increased Radiation Dose?" (co-authors: **Priscilla J. Slanetz, Max P. Rosen**).

2011 graduating abdominal fellow **Jay Pahade** won the Research Trainee Prize in Abdominal Imaging for "Reviewing Imaging Examination Results Immediately after Study Completion with a Radiologist: Patient Preferences and Assessment of Feasibility." (co-authors: Payal H. Patel, Corey A. Couto, **Bettina Siewert, Max P. Rosen**)

**As of press time Friday evening Dec 2, the RSNA website was down so we apologize in advance if we have left anyone out.*

Certificates of Merit were awarded to:

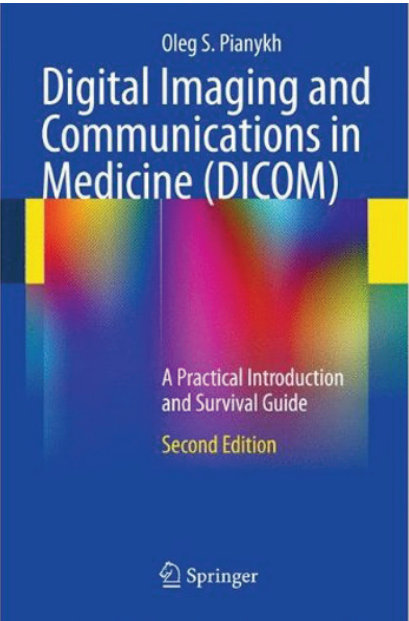
- 1) Multimodality Imaging Review of Pathologies of the Optic Nerve. Jason M. Johnson, Russell E. Meyer, **Gul Moonis**, Christopher G. Filippi
- 2) MR Imaging of the Endometrium. Krithica Kaliannan, **Maryellen Sun, Karen S. Lee**
- 3) CT-DOSE (Dose Length Product) Query and Tracking in CT Studies Using RIS-based Text Parsing Methodology along with Effective Dose Estimation Based on DLP to Effective Dose Conversion Factors. **Rajeev Krishnapillai, Pei-Jan Paul Lin, Vassilios D. Raptopoulos**
- 4) Posteromedial Corner of the Knee: Anatomy, Injuries, and Imaging. **Corrie M. Yablon, Justin W. Kung, Jim S. Wu**

2 posters were recognized for Excellence in Design -

Nonmass-like Enhancement on Breast MR: Review of Patterns with Radiologic Pathologic Correlation and Discussion of Management. **Erica T. Ghosh, Tejas S. Mehta, Shambhavi Venkataraman, Vandana M. Dialani, Valerie J. Fein-Zachary, Priscilla J. Slanetz**

Intensely Enhancing Benign Breast Lesions on Magnetic Resonance Imaging: Imaging Findings with Pathological Correlation. **Shambhavi Venkataraman, Vandana M. Dialani, Tejas S. Mehta, Kenny C. Lai, Elaine Iuanow, Nicole B. Johnson, Priscilla J. Slanetz**

To Biopsy or Not to Biopsy: Echogenic Breast Masses on Ultrasound, a poster by **Yiming Gao** (co-authors, **Priscilla Slanetz** and **Ronald Eisenberg**), was invited to submit for publication in RadioGraphics – and her talk, *Utility of Pelvic Ultrasound Following Negative Abdominal and Pelvic CT in the Emergency Room* (co-authors, **Karen S. Lee, Marc Camacho**) was featured on Aunt Minnie! →



Also debuting at RSNA this year was the second edition of *Digital Imaging and Communications in Medicine (DICOM): A Practical Introduction and Survival Guide* by **Oleg Pianykh**, our Lead Imaging Scientist (CT Advanced Imaging Lab). This book will be available Dec. 28, 2011 but has already garnered 5 out of 5 stars at Amazon.com.

This is the second edition of a very popular book on DICOM that introduces this complex standard from a very practical point of view. It is aimed at a broad audience of radiologists, clinical administrators, information technologists, medical students, and lecturers. The book provides a gradual, down to earth introduction to DICOM, accompanied by an analysis of the most common problems associated with its implementation. Compared with the first edition, many improvements and additions have been made, based on feedback from readers. Whether you are running a teleradiology project or writing DICOM software, this book will provide you with clear and helpful guidance. It will prepare you for any DICOM projects or problem solving, and assist you in taking full advantage of multifaceted DICOM functionality. [Amazon.com]

FYI: Dr. Pianykh is also offering the following course at Harvard Extension School in January 2012

CSCI E-147 Medical Informatics
Spring term (23657)

Oleg Pianykh, PhD. Class times: Thursdays beginning Jan. 26, 5:30-7:30 pm.

Course tuition: noncredit \$1,900, graduate credit \$1,900. Website Printable version Check availability and location

This course covers the most important parts of the field of medical informatics: history, underlying concepts and standards, digital data and networks in medicine, medical image analysis and CAD, confidentiality and security, developing clinical applications and software, teleradiology and medical clouds, building digital hospital workflow, and the science and art of medical imaging. Prerequisites: CSCI E-253 or CSCI E-268, and CSCI E-131b, or the equivalent. (4 credits)

We are also pleased to announce the appointment of **Dr. Jonathan Kruskal** as the **Chairman of the RSNA Quality Improvement Committee**. In being so recognized, Dr. Kruskal's pioneering efforts in QA can now be utilized on a national and international level.

➤ On Tuesday, November 29, we resumed our customary alumni cocktail reception at the University Club of Chicago and celebrated our new **BIDMC Radiology Alumni Society** with the launch of *Radiology at BIDMC: A History*, the long-awaited book commissioned by Dr. Herbert Kressel and written by Otha Linton. We were fortunate to have Otha on hand to sign the first 30 books! Special thanks to Alumni Society Director Justin Kung, Annmarie Monks, Carl Nickerson, Donna Wolfe and Larry Barbaras for their hard work in creating the alumni society and website: RadiologyAlumni.bidmc.harvard.edu

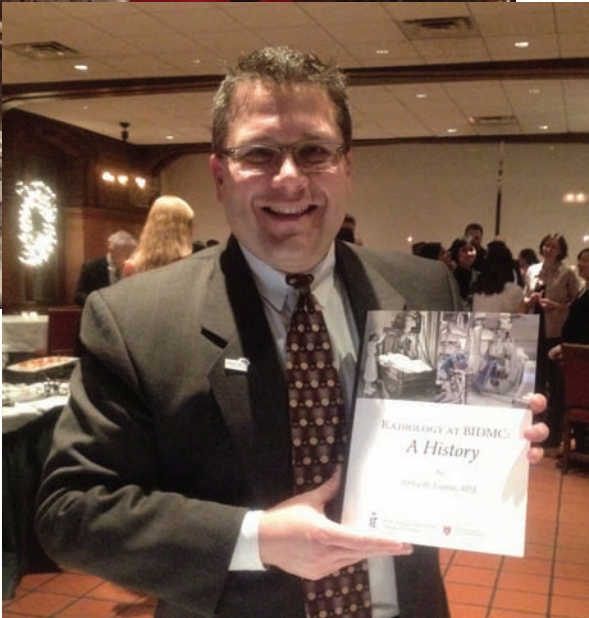
*RSNA Alumni Cocktail Reception, University Club of Chicago***



Above, L to R: Otha Linton, Jonathan Kruskal, Ron Eisenberg and (left) Justin Kung, addressing the assembled friends, faculty and alumni (below).



Above L to R: Giulia Zamboni, Ferris Hall, Iva Petkovska, Aaron Hochberg, Jennifer Son (seated), Mai-Lan Ho, Muneeb Ahmed, Jay Pahade, Jacques Tham, Ernest Yeh, Mrs. Jacques Tham, Christina LeBedis, Pamela Lepkowski, and Ann Cunha.
Right: Marc Camacho holds his copy of *Radiology at BIDMC: A History*.



****Special thanks to Annmarie Monks and Aarti Sekhar for the photos!**

Dear Colleague,

We hope this letter finds you well and that you are still reading radiographs (and more importantly, as Dr Ferris Hall would note, that you don't call them "plain films"!).

Whether you are a recent Beth Israel Deaconess Medical Center (BIDMC) graduate or trained before the advent of CT and MRI, we are sure you will agree that the field of radiology is constantly evolving. However, as BIDMC, Beth Israel Hospital or New England Deaconess Hospital alumni, we will forever share the memories created and the knowledge gained by spending our formative years in Boston.

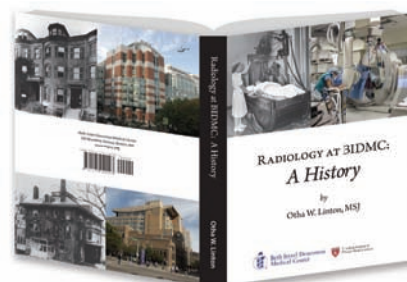
Some of you will most fondly recall the seemingly endless nights on call, while for others the best times were those spent in front of a lightbox or PACS station learning from radiologic giants such as Ferris Hall, Sven Paulin, Bob Kane, Herb Gramm, Mel Clouse, Norman Joffe and Herb Kressel. Undoubtedly, however, you all forged the lifelong friendships with colleagues and teachers that make each and every one of us a part of the extended BIDMC family.

To strengthen these ties and to support the next generation of radiologists, we are excited to announce the creation of the **BIDMC Radiology Alumni Society**. This comes in response to numerous alumni requests, and we certainly share your hope that our Alumni Society will foster ongoing relationships between current and former residents, fellows, faculty and staff. We also plan to offer crucial support to departmental educational activities to enrich the resident and fellow experience. Funds from the Alumni Society will allow our trainees to participate in novel and innovative experiences such as our global health initiative, quality assurance pathway, and public health courses.

We invite you to become a Founding Member of the Society with a tax deductible donation of \$100 or more. As an exclusive benefit to Founding Members, you will receive a copy of the book, "**Radiology at BIDMC: A History**" by Otha W. Linton. This comprehensive 325-page history of Radiology at Beth Israel Deaconess Medical Center will debut at the RSNA reception on November 29, 2011. To celebrate the twin launch of the book and Alumni Society, the book will initially be available exclusively to donors to the Alumni Society. Books will be available at our RSNA reception or can be shipped to your home address.

Please consider joining the Alumni Society today and enjoying the benefits available to members including:

- A copy of our department book "Radiology at BIDMC: A History"
- Discounts off the Visiting Professorship program
- Invitations to departmental events and alumni networking opportunities
- Invitation to join our resident mentor network
- Recognition on the Alumni website
- Most importantly, investing in the future of radiology



Enroll by visiting our website at RadiologyAlumni.bidmc.harvard.edu and clicking the "Giving" button to pay securely by credit card. Or you can complete the Enrollment Form in this letter and send it along with a check payable to BIH Radiologic Foundation, 330 Brookline Ave., CCW-327B, Boston, MA 02215. Contact us at RadiologyAlumni@bidmc.harvard.edu with any questions or suggestions.

With warmest wishes,

Justin Kung, MD
Associate Residency Director, 2011-
Director, BIDMC Radiology Alumni Society
Class of 2009

Ferris Hall, MD
Professor of Radiology
Radiology Residency Director, 1993-1999

Herbert Gramm, MD
Associate Radiologist
Vice Chair and Director of Radiology Education,
New England Deaconess Hospital, 1975-1993



RadiologyAlumni@bidmc.harvard.edu

➤ That same evening, RSNA conferred its highest honor, the Gold Medal, upon **Dr. Herbert Kressel**. In a tradition that originated in 1919, Gold Medals are presented each year to individuals who have rendered exemplary service to the science of radiology and who have received unanimous approval by the RSNA Board of Directors. Congratulations Dr. Kressel, in light of this achievement, it is understandable why you weren't able to attend the BIDMC alumni cocktail reception!

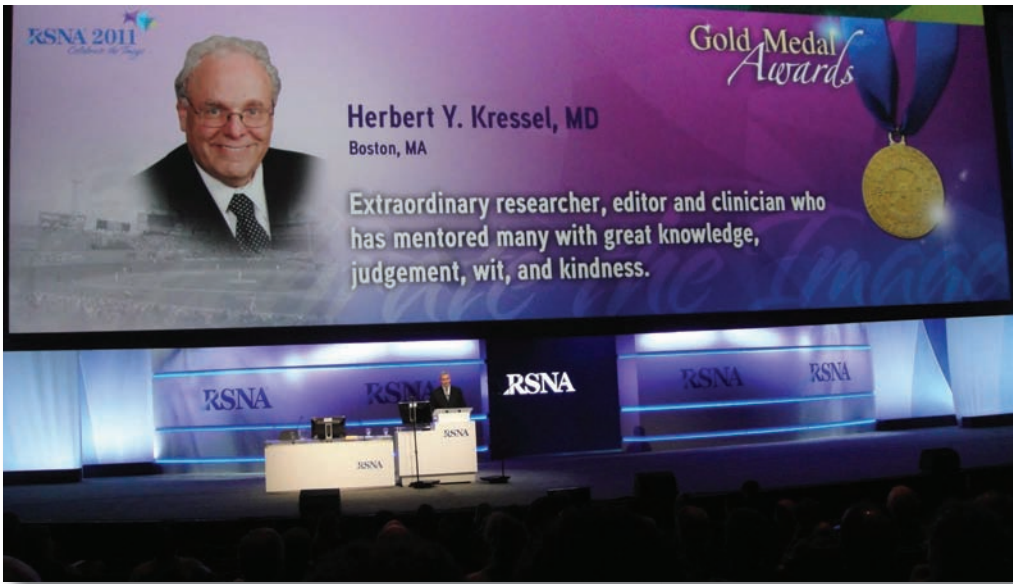


Photo by Debbie Levine

RSNA 2011 Scrapbook
(current faculty and trainees in bold)



Former NEDH thoracic radiologist and now Chief of Radiology at the Medical University of South Carolina Phil Costello, **Ferris Hall** and Janet Storella, a 1989 Beth Israel Hospital radiology resident enjoy reconnecting at RSNA



Yiming Gao and **Priscilla Slanetz** stand proudly with **Mai-Lan Ho**, winner of the AAWR Lucy Frank Squire Distinguished Resident Award in Diagnostic Radiology.



2011 abdominal fellow Aarti Sekhar, 2009 resident Moritz Kircher, **Justin Kung** and **Muneeb Ahmed**



Priscilla Slanetz and 2009 abdominal imaging fellow Christina LeBedis

RSNA 2011 Scrapbook
(current faculty and trainees in bold)



2011 abdominal fellow **Aarti Sekhar**, **Ernest Yeh**, **Jean-Marc Gauguet**, **Iva Petkovska**, and **Adam Jeffers**, 2010 resident Aaron Hochberg, **Monica Agarwal**, **Mai-Lan Ho** and 2011 MSK fellow Yulia Melenevsky



Ferris Hall and Cathy Wells, winner of the RSNA resident research trainee prize in breast imaging



2006 CT fellow Giulia Zamboni and **Maryellen Sun**



Jim Wu, Aaron Hochberg and newest BIDMC alumnus Marc Camacho



Aaron Hochberg, **Monica Agarwal** and Jay Pahade, winner of the RSNA Research Trainee Prize for abdominal imaging



Current VIR fellow **Olga Brook** and 2006 CT research fellow Giulia Zamboni

RSNA 2011 Scrapbook
(current faculty and trainees in bold)



Amidst the pleasure of reunion and parties at RSNA, there is work to be done . . .

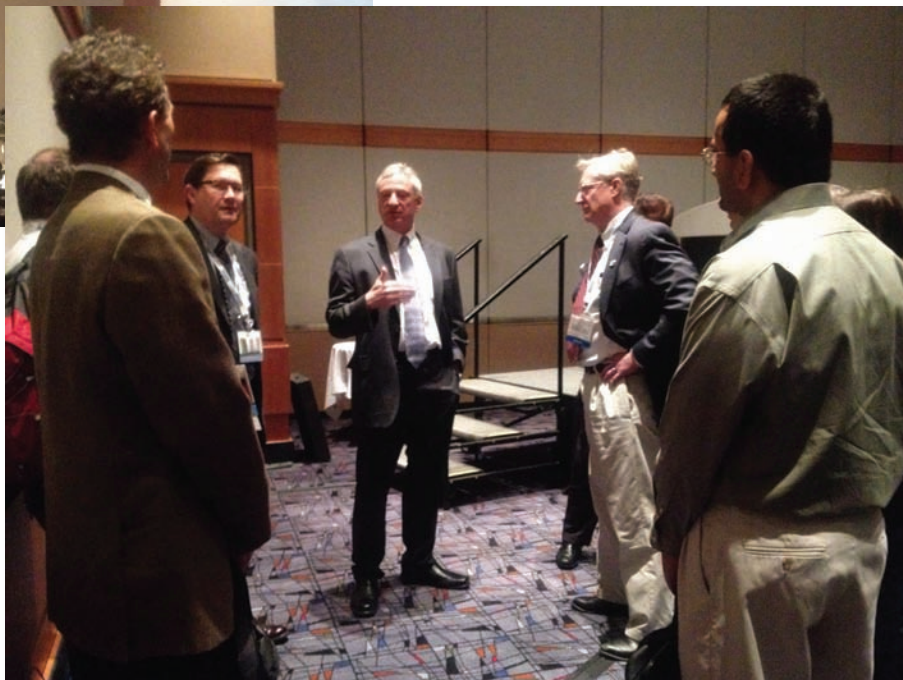
L to R: **Kenny Lai** and **Ferris Hall** engage in a lively discussion with two other meeting participants during Dr. Lai's lunchtime presentation of their e-poster, *Enlarging Biopsy Proven Fibroadenoma: Is Surgical Excision Necessary?* (Kenny C. Lai, Thanissara Chansakul, Hannah Gilmore, Shambhavi Venkataraman, Vandana M. Dialani, Ferris M. Hall, Priscilla J. Slanetz)

Traditional paper posters were also commanding interest as seen here in front of **Yiming Gao's** poster, *To Biopsy or Not to Biopsy: Echogenic Breast Masses on Ultrasound* (Yiming Gao, Priscilla J. Slanetz, and Ronald L. Eisenberg)



Left: **Mary Hochman** (center) gets ready to preside over the Musculoskeletal session, Bone Tumors and Marrow with Mark Kransdorf. This session featured 9 oral presentations held on Monday, Nov. 28

Following their 90-minute Special Interest Session on **Health Care Reform: What does it mean for radiology?**, presenters **Jonathan Kruskal** (center) and **Bernard King** (left of Dr. Kruskal) were delighted to continue their discussion with interested attendees.





“The RSNA R&E Foundation Seed Grant played a huge role in my career. It established me as a clinical investigator very early on and has led to other NIH grants totaling nearly \$3 million. I can think of no better way to give back than to be a strong supporter of this vital Foundation.”

RSNA Research & Education Foundation



72 Grants
Totaling \$2.5 million
in 2011

| Year | Funding (\$) |
|------|--------------|
| '02 | ~\$1,600,000 |
| '03 | ~\$1,500,000 |
| '04 | ~\$1,500,000 |
| '05 | ~\$1,500,000 |
| '06 | ~\$1,600,000 |
| '07 | ~\$1,800,000 |
| '08 | ~\$1,800,000 |
| '09 | ~\$1,800,000 |
| '10 | ~\$2,200,000 |
| '11 | ~\$2,500,000 |

Your steady increase in support yields record-high funding this year.

RSNA Research & Education Foundation

And finally... here is a wonderful example from Dr. Debbie Levine of what "giving back" can mean. Thanks to all for your contributions to such worthwhile enterprises as the RSNA R&E Foundation and the new BIDMC Radiology Alumni Society.

DEPARTMENTAL NEWS, AWARDS & HONORS

- Speaking of being well-represented, Thoracic Imaging faculty **Diana Litmanovich** was an invited speaker at the Israel Radiological Association Annual meeting in Eilat on the Red Sea, a prominent international meeting. Presenting her talk, "Pulmonary embolism imaging in pregnancy" represents a milestone in her career as this is also the site of her very first presentation 10 years ago as a second year resident. This conference was organized by BIDMC adjunct faculty member (and former clinical fellow), **Jacob Sosna**, with whom we continue to have a special relationship in light of the work being done at Hadassah Hebrew University Medical Center (aka *BIDMC Radiology Middle East Campus*) with fellow alumni **S. Nahum Goldberg** and **Liat Appelbaum** (former abdominal imaging fellow).



*BIDMC Radiology Middle East Campus - Hadassah Hebrew University Medical Center, Jerusalem.
L to R: Ultrasound unit chief Dr. Liat Appelbaum (wearing her BIDMC white coat); Jacob Sosna, Chief of Radiology; S. Nahum Goldberg, unit chief, image guided therapies and interventional oncology. Both Drs. Appelbaum and Sosna served as abdominal imaging fellows at BIDMC in 2004-2005 and 2001-2003 respectively.*

• **Congratulations John Frangioni, MD PhD**

Dr. Maureen Connelly, Dean for Faculty Affairs, is pleased to announce that the secondary appointment of Dr. John Frangioni as Professor of Radiology has been approved by the University, effective October 1, 2011. A molecular oncologist, John has held a dual appointment in radiology since 2002 when he came on board to work with radiologists and radiology researchers such as Bob Lenkinski and S. Nahum Goldberg, to develop the next generation of clinical imaging technology for the imaging and treatment of cancer at the cellular level. Rising to the rank of Associate Professor in 2006, John continued to develop cutting edge medical devices and disease-specific contrast agents and to pursue their translation into clinical practice – for which he has been recognized in 2011 with the promotion to Professor of Radiology.



KUDOS - Please join us in congratulating the following staff for outstanding patient care and service

Support Services



On Monday 10/9, **Eboni Walcott** received a call from a patient, that was informing MRI that he was not going to make his appointment, because he fell off his scooter and was stuck under it. . Eboni tried to get the patient to allow her to call someone to assist him to get up, but the patient refused, because he stated he was embarrassed, and that soon, his church members would be coming by and he would have them help him up. Eboni said okay, but that she would check back in with him to make sure he was helped up, and call his apartment complex if he still needed help at that time. Eboni, called and checked back in with the patient and he was assisted up. I feel this was above the normal call of duty,as she went that extra mile for one of our patients. I would like to recommend Eboni for the spot bonus.

Deb Morris consistently performs exceptional customer service and collaborates effectively with our customers both within and out side of the department. She is very proactive and takes initiative in matter that relates to the department and our patients. An example of her willingness to be an effective team player and collaborator was during the renovation of the Ansin changing rooms, Deb took the initiative to be available to be a resource to the construction staff and made sure communication flowed between all stakeholders, which was appreciated by all. Therefore I would like to recommend Deb for the spot bonus.

Over the past few weeks I have received several wonderful complementary letters from patients/customers both external and internal on the exceptional customer service performance of **Jackie Vernon**. Some of the descriptions used to describe her willingness to assist are "she was compassionate, very responsive, professional and committed to handle whatever issues I throw your way". Therefore I would like to recommend Jackie for the spot bonus.

Nuclear Medicine



We did a survey of PET/CT patients to ask their preferences for appointment times. There was an area for comments. It is remarkable how many patients singled out **Jeff English** for outstanding service. Jeff is a huge asset to the department and to the hospital and we need to thank him for his dedication and his commitment to excellent patient care.

Do you know. . . Christina Murphy?



Christina Murphy, NP
Abdominal Intervention

Please welcome nurse practitioner **Christina Murphy** who recently joined the Radiology CT Abdominal Interventional Group working under the direction of Dr. Bettina Siewert. Christina will also be coordinating the care of the tumor ablation/chemo patients in conjunction with Drs. Muneeb Ahmed and Salomao Faintuch.

Christina recently graduated from Regis College's Family Nurse Practitioners Program after working as a nurse here at BIDMC. She also has a degree in Biology prior to changing her career path from petri dishes to patients. She comes to us with a strong history of excellent patient care and a lot of enthusiasm.

Contact information: Beeper # 3-9567 Office WCC303 x 4-2658

Announcing another new arrival: Rocco McKinnon



Radiology Assistant Stacey McKinnon, RTR is pleased to announce the arrival of Rocco on October 11 at 3:30 pm. At 7 lbs 10 oz, his championship status is beyond a doubt. Stacey can't wait for everyone to meet him!



DEPARTMENTAL NEWS, AWARDS & HONORS

Farewell Marc Camacho, Chief of Emergency Radiology

In a well-attended reception held in the Kirstein Living room on November 15th, we were able to say good-bye to Emergency Radiology Chief Marc Camacho who departed BIDMC for exciting new endeavors in Florida.

Over the past 5 years, Marc established a strong foundation for Emergency Radiology at BIDMC. Since the creation of our section just over 4 years ago, Marc has worked tirelessly to develop strategies and innovations to significantly improve patient care and workflow in the emergency radiology setting. He has also developed a number of fruitful research projects with the involvement of many of our residents as well as members of the Emergency Medicine Dept. All of this has fostered a productive interaction with our EM and trauma care colleagues. There is no doubt the designation of 2011 "Section of the Year" awarded by our residents earlier this year was in no small part a reflection of his hard work and dedication. He will be sorely missed though we do hope to continue in his pioneering example as we move forward. We have been extremely lucky to have worked alongside such an inspiring and enthusiastic mentor and friend.

- Emergency Radiology colleagues, Sejal Sah, Robin Levenson and Karen Lee



Dear Jesse:

I want to thank and congratulate you for the fascinating and inspiring presentation you gave us at Grand Rounds yesterday [Nov 5, 2011]. Data security has become a national issue and we in a digital environment are extremely vulnerable to breeches and their serious consequences. Without doubt you showed that HIPAA is not just a 5 letter compliance word, but a matter that must be taken very seriously. Apart from healthcare reform, I cannot think of a topic that has become so integral and relevant to what we do each day. The fiscal and punitive implications of security breeches that you outlined were a real eye opener; perhaps more shocking was how susceptible we all are given the extent with which we now use digital media, passwords, laptops, databases and computers each day. I still think that many of our faculty falsely believe that their images cropped on powerpoint presentations are secure and compliant. Not at all!

...given the extremely positive response from those who attended, I would like to ask if you wouldn't mind packaging the presentation into several smaller aliquots [see below]. I also believe that every department in our hospital needs to hear what you had to say. . . More so, the larger national radiology community needs to hear what you had to say so get your keypad greased up, log in securely using your encrypted process, make sure the phishing filters are active and that autorun software is all off . . .

- Jonny



Data Security at Work : ***Any publicity is [not] good publicity***

The phrases “Any publicity is good publicity” or “There’s no such thing as bad publicity” may be true when you are an unknown entity and have nothing to lose from bad publicity. However, this seems no longer true in current competitive markets, where social media and online reviews reign and guide the patronage/purchasing patterns of individuals.

One particularly bad form of publicity in the contemporary health care industry is the dreaded “data breach.” Data breaches are clearly expensive, including the cost of the required response to a breach, decreased business (from bad publicity), as well as costs related to increased regulatory oversight, punitive fines, and lawsuits.

With medical records containing information about virtually every aspect of a patient’s life, including details of medical history, financial accounts, and social habits, patients have a good reason to fear data breaches. A data breach can wreak havoc on an individual’s sense of security, leaving victims feeling vulnerable and wondering for years what damage might eventually result from a breach.

How can you minimize being the cause of a data breach? Here are 5 tips to promote data security at work:

1) Did you know that the details of the BIDMC data security policy are online?

Policy ADM-04 is available at <https://apps.bidmc.org/cms/display.asp?i=2550>

2) Leave PACS and hospital workstations turned on over nights and weekends!

While the “green” side of you want to reduce energy usage by turning off computers when they’re not being used, the hospital Information Systems and PACS groups would prefer that these be left on.

Why? Critical updates to the operating systems and antivirus/firewall software are typically applied overnight in order to minimize impact to users. If PACS and workstations are left off over the nights and weekends, these systems may not be protected from the latest security threats.

3) Don’t use your BIDMC password for other (non-work) purposes. It might be acceptable to use a common password for BIDMC IS and PACS since they’re both work-related entities managed by hospital personnel, but you should not use your work password for personal accounts (email, banking, shopping) which are not hosted by the hospital.

Why not? As a user of a company’s computer systems, you make the assumption (which may not be true) that the administrators of their computer systems are not able to read the “password file” or “recover” your password for nefarious purposes. If you use the same password for every computer system, a single company’s security weakness or breach could leave all of your accounts vulnerable.

4) Use your network directories (“H: Drive”, your personal directory and “P: Drive”, Clinical) to store protected health information (PHI), not your computer's desktop or local drive.

Why? Network shares are backed up and always available to you when you’re logged into a system and you have the required data access privileges. Also, hospital policy ADM-04 states:

N. Storage of Protected Data

Local Storage of Protected Data – All Protected Data should be saved to servers or storage devices housed in one of the data centers managed by BIDMC-IS. Users should not save copies of Protected Data on their local devices except where the device is a Mobile Device that meets the requirements of this policy.

Storage on External Systems – Users must not employ software that copies BIDMC’s Protected Data to an external system unless BIDMC has a valid Business Associates or confidentiality agreement, as applicable, with the company hosting the external system. External systems include but are not limited to Google Documents and other personal Internet-based storage services.

Hosted Data Services – Prior to contracting with an external organization to host an application containing BIDMC’s Protected Data, the CIO or his/her designee must perform a security review and approve the external hosting arrangement.

5) Logout of (or lock, using the Ctrl-Alt-Delete key combination) medical center workstations in semi-public areas such as reading rooms when you’re leaving the reading room.

Why? Anybody else who sits down at your workstation has access to your email as well as any PHI on your network shares. If you’re already logged into the BIDMC portal (<https://portal.bidmc.org>), they’ll also have access to single-sign-on applications including the Electronic Medical Records, Provider Order Entry, and Payroll.

For some additional personal entertainment, go to YouTube to see “What happens when you steal a hackers computer” -- a humorous (but true) presentation which shows some reasons to be paranoid about computer technology and the Internet. <http://www.youtube.com/watch?v=U4oB28ksilo>



Carl F. Nickerson, MBA
Business Manager
HMFP Radiology & BIH Radiologic Foundation

Our Radiology professional practice group (HMFP) contracts with McKesson for diagnosis coding, allowables monitoring, revenue cycle management, accounts receivable, insurance denials, compliance and reporting for the Radiology practice. Starting in November 2011, we offer this new column as an opportunity to keep you informed. During this time of revenue and utilization reductions, compliance scrutiny and increasing payer denials, our partnership with McKesson has been critical to our ability to maintain our financial stability.

The content of this section is submitted by Kathleen West, McKesson's Director of Account Management for Radiology.

MCKESSON

Empowering Healthcare

McKesson Corner

One certainty of the New Year is it will bring more financial uncertainty to the Imaging Community. Here's a summary of some of the more significant changes impacting Imaging for January 1, 2012.

- ❖ The **Multiple Procedure Payment Reduction (MPPR)** Policy is being expanded in CY2012 to the Professional Component of certain diagnostic imaging services (MR, CT, US). The service with the highest allowable will be paid at the full allowable but the allowable will be **reduced by 25% on all subsequent services within those modalities** furnished to the same patient by the same physician or group practice, in the same session on the same day. This policy reduces payments for these services by approximately \$50 million which is supposed to be redistributed to other services paid under the MPFS.
 - The MPPR policy is already in place for the Technical Component of these same modalities at a 50% reduction on the TC of the subsequent services.
 - The ACR called on Congress to pass the **Diagnostic Imaging Services Protection Act** (H.R. 3269), which would block this multiple procedure payment reduction until and unless Medicare produces a study that would support such a cut in care.
- ❖ The **Medicare Fee Schedule** is at risk of seeing the Conversion Factor **reduced by 27.4%** due to the long running error in the Sustainable Growth Rate Formula unless Congress intervenes.
- ❖ **CPT Changes:** A new CPT code for **CTA abdomen and pelvis** will be utilized when both the abdomen and pelvis are imaged at the same setting because these two areas are billed together greater than 75% of the time. The stand alone codes are still active and would be utilized when a CTA only of the abdomen or pelvis is performed independently.
 - A comparison of the new combined code RVU against the stand alone codes combined equates to a **40% reduction in the RVU** of this new combination code.
- ❖ **Medicare Revalidation:** Each physician who has been enrolled with Medicare since prior to 3/25/2011 will be required to revalidate their CMS enrollment between now and 2015. The physician will have **60 days to submit that reenrollment packet to CMS or risk deactivation** in the program. Please watch for any letters from CMS addressed to you at the facility from CMS. If you received a Revalidation form submit it to the business office ASAP.
- ❖ **HIPAA 5010:** Effective 1/1/2012 all claims must be in the new 5010 format required by the DHHS in preparation for ICD-10. McKesson has been ready for many months now and tested with all payers who have been available to do so. There is a risk of revenue delays if any insurers are not systematically prepared, properly tested and live in the 5010 format effective 1/1/2012.

2011 Publications from our Faculty Members [New citations in Blue]. We do a monthly PubMed search for new BIDMC publications and may miss those in which your affiliation is not noted. If we miss your paper, please send the reference to dwolfe@bidmc.harvard.edu. Note that publications do not always appear in Pubmed in the same month they are actually published.

Agrawal JR, Travis AC, **Mortele KJ**, Silverman SG, Maurer R, Reddy SI, Saltzman JR. Diagnostic Yield of Dual-Phase CT Enterography in Patients with Obscure Gastrointestinal Bleeding and a Nondiagnostic Capsule Endoscopy. J Gastroenterol Hepatol. 2011 Nov 18. doi: 10.1111/j.1440-1746.2011.06959.x.

Akçakaya M, Basha TA, Goddu B, Goepfert LA, Kissinger KV, Tarokh V, **Manning WJ**, Nezafat R. Low-dimensional-structure self-learning and thresholding: Regularization beyond compressed sensing for MRI Reconstruction. Magn Reson Med. 2011 Apr 4. doi: 10.1002/mrm.22841.

Akçakaya M, Hu P, Chuang ML, Hauser TH, Ngo LH, **Manning WJ**, Tarokh V, Nezafat R. Accelerated noncontrast-enhanced pulmonary vein MRA with distributed compressed sensing. J Magn Reson Imaging. 2011 May;33(5):1248-55. doi: 10.1002/jmri.22559. PMID: PMC3081138.

Akçakaya M, Nam S, Hu P, Moghari MH, Ngo LH, Tarokh V, **Manning WJ**, Nezafat R. Compressed Sensing With Wavelet Domain Dependencies for Coronary MRI: A Retrospective Study. IEEE Trans Med Imaging. 2011 May;30(5):1090-9.

Ahmed M, Brace CL, Lee FT Jr, **Goldberg SN**. Principles of and Advances in Percutaneous Ablation. Radiology. 2011 Feb;258(2):351-369.

Ahmed M, Goldberg SN. Basic science research in thermal ablation. Surg Oncol Clin N Am. 2011 Apr;20(2):237-58.

[Appelbaum L](#), Ben-David E, **Sosna J**, Nissenbaum Y, **Goldberg SN**. US Findings after Irreversible Electroporation Ablation: Radiologic-Pathologic Correlation. Radiology. 2011 Nov 21. [Epub ahead of print]

[Appelbaum E](#), Maron BJ, Adabag S, Hauser TH, Lesser JR, Haas TS, Riley AB, Harrigan CJ, Delling FN, Udelson JE, Gibson CM, **Manning WJ**, Maron MS. Intermediate Signal Intensity Late Gadolinium Enhancement Predicts Ventricular Tachyarrhythmias in Patients with Hypertrophic Cardiomyopathy. Circ Cardiovasc Imaging. 2011 Dec 1.

[Appelbaum L](#), **Sosna J**, Nissenbaum Y, Benshtein A, **Goldberg SN**. Electromagnetic Navigation System for CT-Guided Biopsy of Small Lesions. AJR Am J Roentgenol. 2011 May;196(5):1194-200.

Ashitate Y, Lee BT, Ngo LH, Laurence RG, Hutteman M, Oketokoun R, Lunsford E, Choi HS, **Frangioni JV**. Quantitative Assessment of Nipple Perfusion With Near-Infrared Fluorescence Imaging. Ann Plast Surg. 2011 Aug 22.

Ashitate Y, Stockdale A, Choi HS, Laurence RG, **Frangioni JV**. Real-Time Simultaneous Near-Infrared Fluorescence Imaging of Bile Duct and Arterial Anatomy. J Surg Res. 2011 Jul 14. [Epub ahead of print]

Ashitate Y, Tanaka E, Stockdale A, Choi HS, **Frangioni JV**. Near-infrared fluorescence imaging of thoracic duct anatomy and function in open surgery and video-assisted thoracic surgery. J Thorac Cardiovasc Surg. 2011 Apr 6. [Epub ahead of print]

Bankier AA, Gevenois PA, Hackx M, Madani A, Lynch DA, **Boiselle PM**. Expert opinion: quantitative computed tomography analysis of chronic obstructive pulmonary disease. J Thorac Imaging. 2011 Nov;26(4):248.

[Bello N](#), **Manning WJ**. Acute Adverse Reactions to Gadolinium in CMR "Gadol" News! JACC Cardiovasc Imaging. 2011 Nov;4(11):1177-9.

Boiselle PM. The journal of thoracic imaging welcomes the European society of thoracic imaging. J Thorac Imaging. 2011 Feb;26(1):2.

Boiselle PM. In with the new! J Thorac Imaging. 2011 Feb;26(1):1.

Boiselle PM, Erasmus JJ, Ko JP, Ravenel JG, Vlahos I. Expert opinion: lung cancer staging. J Thorac Imaging. 2011 May;26(2):85.

Boiselle PM, Hurwitz LM, Mayo JR, Schoepf UJ, Tack D. Expert opinion: radiation dose management in cardiopulmonary imaging. J Thorac Imaging. 2011 Feb;26(1):3.

Boiselle PM, Reddy GP. Editors' recognition awards for distinction in reviewing in 2010. J Thorac Imaging. 2011 Feb;26(1):7.

Boiselle PM. The Neoplasm Formerly Known as BAC. J Thorac Imaging. 2011 Aug;26(3):188.

Boiselle PM. Cardiopulmonary radiologists: the next generation. J Thorac Imaging. 2011 Aug;26(3):187.

Bollen TL, Singh VK, Maurer R, Repas K, van Es HW, Banks PA, **Mortele KJ**. Comparative evaluation of the modified CT severity index and CT severity index in assessing severity of acute pancreatitis. AJR Am J Roentgenol. 2011 Aug;197(2):386-92.

[Brodoefel H](#), [Tognolini A](#), [Zamboni GA](#), [Gourtsoyianni S](#), Claussen CD, **Raptopoulos V**. Standardisation of liver MDCT by tracking liver parenchyma enhancement to trigger imaging. Eur Radiol. 2011 Nov 5.

[Brook OR](#), Hakmon T, Brook A, Dudnik E, Kuten A, Engel A. The Effect of Radiology Conference Consultation on Cancer Patients Management. Ann Oncol. 2011 May;22(5):1204-8.

[Brook OR](#), **Kane RA**, **Tyagi G**, **Siewert B**, **Kruskal JB**. Lessons Learned From Quality Assurance: Errors in the Diagnosis of Acute Cholecystitis on Ultrasound and CT. AJR Am J Roentgenol. 2011 Mar;196(3):597-604.

[Brook OR](#), [Mendiratta-Lala M](#), **Brennan D**, **Siewert B**, **Faintuch S**, **Goldberg SN**. Imaging findings after radiofrequency ablation of adrenal tumors. AJR Am J Roentgenol. 2011 Feb;196(2):382-8.

Byrnes V, Miller A, Lowry D, Hill E, Weinstein C, **Alsop D**, **Lenkinski R**, Afdhal NH. Effects of Anti-Viral Therapy and HCV Clearance on Cerebral Metabolism and Cognition. J Hepatol. 2011 Oct 22.

Cambers CE, Fetterly KA, Holzer R, **Lin PJ**, Blankenship JC, Balter S, Laskey WK. Radiation safety program for the cardiac catheterization laboratory. Catheter Cardiovasc Interv. 2011 Mar 1;77(4):546-56. doi: 10.1002/ccd.22867. Review.

Chappelow J, Bloch BN, **Rofsky N**, Genega E, **Lenkinski R**, DeWolf W, Madabhushi A. Elastic registration of multimodal prostate MRI and histology via multiattribute combined mutual information. Med Phys. 2011 Apr;38(4):2005-18. PMID: PMC3078156.

Choi HS, Nasr K, Alyabyev S, Feith D, Lee JH, Kim SH, Ashitate Y, Hyun H, Patonay G, Strekowski L, Henary M, **Frangioni JV**. Synthesis and in vivo fate of zwitterionic near-infrared fluorophores. Angew Chem Int Ed Engl. 2011 Jul 4;50(28):6258-63. doi: 10.1002/anie.201102459. Epub 2011 Jun 7.

Cohen AB, Neema M, Arora A, Dell'oglio E, Benedict RH, Tauhid S, Goldberg-Zimring D, Chavarro-Nieto C, Ceccarelli A, Klein JP, Stankiewicz JM, Houtchens MK, Buckle GJ, **Alsop DC**, Guttmann CR, Bakshi R. The Relationships among MRI-Defined Spinal Cord Involvement, Brain Involvement, and Disability in Multiple Sclerosis. J Neuroimaging. 2011 Mar 29. doi: 10.1111/j.1552-6569.2011.00589.x.

Cohen SB, Proudman S, Kivitz AJ, Burch FX, Donohue JP, **Burstein D**, Sun YN, Banfield C, Vincent MS, Ni L, Zack DJ. A randomized, double-blind study of AMG 108 (a fully human monoclonal antibody to IL 1R1) in patients with osteoarthritis of the knee. Arthritis Res Ther. 2011 Jul 29;13(4):R125.

[Corwin MT](#), **Siewert B**, **Sheiman RG**, **Kane RA**. Incidentally detected gallbladder polyps: is follow-up necessary?--Long-term clinical and US analysis of 346 patients. Radiology. 2011 Jan;258(1):277-82. Epub 2010 Aug 9.

Crema MD, Roemer FW, Marra MD, **Burstein D**, Gold GE, Eckstein F, Baum T, Mosher TJ, Carrino JA, Guermazi A. Articular Cartilage in the Knee: Current MR Imaging Techniques and Applications in Clinical Practice and Research1. Radiographics. 2011 Jan-Feb;31(1):37-61.

Cullen G, Vaughn B, Ahmed A, Peppercorn MA, **Smith MP**, Moss AC, Cheifetz AS. Abdominal phlegmons in Crohn's disease: Outcomes following antitumor necrosis factor therapy. Inflamm Bowel Dis. 2011 Jun 6. doi: 10.1002/ibd.21783. [Epub ahead of print]

[Dai W](#), [Robson PM](#), **Shankaranarayanan A**, **Alsop DC**. Reduced resolution transit delay prescan for quantitative continuous arterial spin labeling perfusion imaging. Magn Reson Med. 2011 Nov 14. doi: 10.1002/mrm.23103. [Epub ahead of print]

Dai W, [Robson PM](#), **Shankaranarayanan A**, **Alsop DC**. Sensitivity calibration with a uniform magnetization image to improve arterial spin labeling perfusion quantification. Magn Reson Med. 2011 Apr 26. doi: 10.1002/mrm.22954. [Epub ahead of print]

Dialani V, [Hines N](#), Wang Y, **Slanetz P**. Breast Schwannoma. Case Report Med. 2011;2011:930841. Epub 2011 Feb 9.

Dialani V, **Litmanovich D**, **Bankier AA**, Decamp M, Gangadharan SP, **Boiselle PM**. Subcarinal collection following mediastinoscopy: a normal post-procedural CT finding. Clin Radiol. 2011 May;66(5):399-404.

2011 Publications from our Faculty Members [New citations in Blue].

Douglas PS, Garcia MJ, Haines DE, Lai WW, **Manning WJ**, Patel AR, Picard MH, Polk DM, Ragosta M, Ward RP, Weiner RB. ACCF/ASE/AHA/ASNC/HFSA/HRS/SCAI/SCCM/SCCT/SCMR 2011 Appropriate Use Criteria for Echocardiography A Report of the American College of Cardiology Foundation Appropriate Use Criteria Task Force, American Society of Echocardiography, American Heart Association, American Society of Nuclear Cardiology, Heart Failure Society of America, Heart Rhythm Society, Society for Cardiovascular Angiography and Interventions, Society of Critical Care Medicine, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance Endorsed by the American College of Chest Physicians. J Am Coll Cardiol. 2011 Mar 1;57(9):1126-66.

Duhamel G, Callot V, Tachrount M, **Alsop DC**, Cozzone PJ. Pseudo-continuous arterial spin labeling at very high magnetic field (11.75 T) for high-resolution mouse brain perfusion imaging. Magn Reson Med. 2011 Oct 19. doi: 10.1002/mrm.23096.

Eisenberg RL, Khabbaz KR. Are chest radiographs routinely indicated after chest tube removal following cardiac surgery? AJR Am J Roentgenol. 2011 Jul;197(1):122-4.

Eisenberg RL, Ngo L, **Boiselle PM**, **Bankier AA**. Honorary Authorship in Radiologic Research Articles: Assessment of Frequency and Associated Factors. Radiology. 2011 May;259(2):479-86.

Eisenberg RL, **Yablon CM**. Career development for residents and beyond: filling in the gaps. AJR Am J Roentgenol. 2011 Jan;196(1):W6-7.

Fong TG, Inouye SK, Dai W, Press DZ, **Alsop DC**. Association cortex hypoperfusion in mild dementia with Lewy bodies: a potential indicator of cholinergic dysfunction? Brain Imaging Behav. 2011 Mar;5(1):25-35.

Frangioni JV. The myth of multimodality diagnostic agents. Mol Imaging. 2011 Apr;10(2):79-80.

Franks TJ, Galvin JR, Jett JR, Naidich DP, **Boiselle PM**. Expert Opinion: Role of Percutaneous Biopsy of Part-Solid Nodules in the IASLC/ATS/ERS International Multidisciplinary Classification of Lung Adenocarcinoma. J Thorac Imaging. 2011 Aug;26(3):189.

Fregni F, Potvin K, Dasilva D, Wang X, **Lenkinski RE**, Freedman SD, Pascual-Leone A. Clinical effects and brain metabolic correlates in non-invasive cortical neuromodulation for visceral pain. Eur J Pain. 2011 Jan;15(1):53-60. Epub 2010 Sep 6. PMCID: PMC3000866.

Fujii H, Idoine JD, Gioux S, Accorsi R, Slochower DR, Lanza RC, **Frangioni JV**. Optimization of Coded Aperture Radioscintigraphy for Sentinel Lymph Node Mapping. Mol Imaging Biol. 2011 May 13.

Gansler DA, Lee AK, Emerton BC, D'Amato C, **Bhadelia R**, Jerram M, Fulwiler C. Prefrontal regional correlates of self-control in male psychiatric patients: Impulsivity facets and aggression. Psychiatry Res. 2011 Jan 30;191(1):16-23. Epub 2010 Dec 9.

George RT, Arbab-Zadeh A, Cerci RJ, Vavere AL, Kitagawa K, Dewey M, Rochitte CE, Arai AE, Paul N, Rybicki FJ, Lardo AC, **Clouse ME**, Lima JA. Diagnostic Performance of Combined Noninvasive Coronary Angiography and Myocardial Perfusion Imaging Using 320-MDCT: The CT Angiography and Perfusion Methods of the CORE320 Multicenter Multinational Diagnostic Study. AJR Am J Roentgenol. 2011 Oct;197(4):829-37.

Gibbs-Strauss SL, Nasr KA, Fish KM, Khullar O, Ashitate Y, Siclovan TM, Johnson BF, Barnhardt NE, Tan Hehir CA, **Frangioni JV**. Nerve-highlighting fluorescent contrast agents for image-guided surgery. Mol Imaging. 2011 Apr;10(2):91-101.

Gioux S, Mazhar A, Lee BT, Lin SJ, Tobias AM, Cuccia DJ, Stockdale A, Oketokoun R, Ashitate Y, Kelly E, Weinmann M, Durr NJ, Moffitt LA, Durkin AJ, Tromberg BJ, **Frangioni JV**. First-in-human pilot study of a spatial frequency domain oxygenation imaging system. J Biomed Opt. 2011 Aug;16(8):086015.

Goldberg SN. Science to practice: which approaches to combination interventional oncologic therapy hold the greatest promise of obtaining maximal clinical benefit? Radiology. 2011 Dec;261(3):667-9. PMCID: PMC3219913.

Grant AK, **Vinogradov E**, **Wang X**, **Lenkinski RE**, **Alsop DC**. Perfusion imaging with a freely diffusible hyperpolarized contrast agent. Magn Reson Med. 2011 Mar 22. doi: 10.1002/mrm.22860.

Greenman RL, Smithline HA. The Feasibility of Measuring Phosphocreatine Recovery Kinetics in Muscle Using a Single-shot (31)P RARE MRI Sequence. Acad Radiol. 2011 Apr 30. [Epub ahead of print]

Greenman RL, **Wang X**, Smithline HA. Simultaneous acquisition of phosphocreatine and inorganic phosphate images for Pi:PCr ratio mapping using a RARE sequence with chemically selective interleaving. Magn Reson Imaging. 2011 Jun 3. [Epub ahead of print]

Hall FM. Hip fractures and other problematic radiologic terminology. AJR Am J Roentgenol. 2011 Aug;197(2):523.

Hall FM. Cortical desmoid: a misnomer? AJR Am J Roentgenol. 2011 Oct;197(4):1022.

Hall FM. Celebrating the achievements of women radiologists and physicians. Radiology. 2011 Oct;261(1):9-11.

Hall FM, Kim S, Yoon CS, Chung TS, Kim H. Re: More about Scoliosis Imaging for Radiologists * Dr Kim and colleagues respond. Radiographics. 2011 Jul-Aug;31(4):1191-2.

Hall FM, **Mehta TS**, **Magaram D**. Sonographic confirmation of mammographic abnormality. AJR Am J Roentgenol. 2011 Sep;197(3):764.

Hall FM. Celebrating the achievements of women radiologists and physicians. Radiology. 2011 Oct;261(1):9-11.

Hall FM. Morbidity of Direct MR Arthrography. AJR Am J Roentgenol. 2011 Dec;197(6):1524.

Hara AK, Blevins M, Chen MH, Dachman AH, Kuo MD, Menias CO, **Siewert B**, Cheema JI, Obregon RG, Fidler JL, Zimmerman P, Horton KM, Coakley KJ, Iyer RB, Halvorsen RA Jr, Casola G, Yee J, Herman BA, Johnson CD. ACRIN CT Colonography Trial: Does Reader's Preference for Primary Two-dimensional versus Primary Three-dimensional Interpretation Affect Performance? Radiology. 2011 Mar 1.

Hara AK, Kuo MD, Blevins M, Chen MH, Yee J, Dachman A, Menias CO, **Siewert B**, Cheema JI, Obregon RG, Fidler JL, Zimmerman P, Horton KM, Coakley K, Iyer RB, Halvorsen RA Jr, Casola G, Johnson CD. National CT Colonography Trial (ACRIN 6664): Comparison of Three Full-Laxative Bowel Preparations in More Than 2500 Average-Risk Patients. AJR Am J Roentgenol. 2011 May;196(5):1076-82.

Harrigan CJ, Peters DC, Gibson CM, Maron BJ, Manning WJ, Maron MS, Appelbaum E. Hypertrophic cardiomyopathy: quantification of late gadolinium enhancement with contrast-enhanced cardiovascular MR imaging. Radiology. 2011 Jan;258(1):128-33. Epub 2010 Nov 2.

Hautvast GL, Salton CJ, Chuang ML, Breeuwer M, O'Donnell CJ, **Manning WJ**. Accurate computer-aided quantification of left ventricular parameters: Experience in 1555 cardiac magnetic resonance studies from the Framingham Heart Study. Magn Reson Med. 2011 Oct 21. doi: 10.1002/mrm.23127.

Henkin RE, Del Rowe JD, Grigsby PW, Hartford AC, Jadvar H, Macklis RM, **Parker JA**, Wong JY, Rosenthal SA. ACR-ASTRO Practice Guideline for the Performance of Therapy With Unsealed Radiopharmaceutical Sources. Clin Nucl Med. 2011 Aug;36(8):e72-e80.

Hochberg AR, **Rojas R**, **Thomas AJ**, **Reddy AS**, **Bhadelia RA**. Accuracy of On-Call Resident Interpretation of CT Angiography for Intracranial Aneurysm in Subarachnoid Hemorrhage. AJR Am J Roentgenol. 2011 Dec;197(6):1436-41.

Hu P, Chan J, Ngo LH, Smink J, Goddu B, Kissinger KV, Goepfert L, Hauser TH, **Rofsky NM**, **Manning WJ**, Nezaferat R. Contrast-enhanced whole-heart coronary MRI with bolus infusion of gadobenate dimeglumine at 1.5 T. Magn Reson Imaging. 2011 Feb;66(2):392-398.

Hu P, Hong S, Moghari MH, Goddu B, Goepfert L, Kissinger KV, Hauser TH, **Manning WJ**, Nezaferat R. Motion correction using coil arrays (MOCCA) for free-breathing cardiac cine MRI. Magn Reson Med. 2011 Aug;66(2):467-75. doi: 10.1002/mrm.22854. Epub 2011 Feb 24.

Hutteman M, Choi HS, Mieog JS, van der Vorst JR, Ashitate Y, Kuppen PJ, van Groningen MC, Löwik CW, Smit VT, van de Velde CJ, **Frangioni JV**, Vahrmeijer AL. Clinical Translation of Ex Vivo Sentinel Lymph Node Mapping for Colorectal Cancer Using Invisible Near-Infrared Fluorescence Light. Ann Surg Oncol. 2011 Apr;18(4):1006-14.

Hutteman M, Mieog JS, van der Vorst JR, Liefers GJ, Putter H, Löwik CW, **Frangioni JV**, van de Velde CJ, Vahrmeijer AL. Randomized, double-blind comparison of indocyanine green with or without albumin premixing for near-infrared fluorescence imaging of sentinel lymph nodes in breast cancer patients. Breast Cancer Res Treat. 2011 Mar 1.

Hutteman M, van der Vorst JR, Gaarenstroom KN, Peters AA, Mieog JS, Schaafsma BE, Löwik CW, **Frangioni JV**, van de Velde CJ, Vahrmeijer AL. Optimization of near-infrared fluorescent sentinel lymph node mapping for vulvar cancer. Am J Obstet Gynecol. 2011 Jul 30.

2011 Publications from our Faculty Members [New citations in Blue].

Inoue K, Liu F, Hoppin J, Lunsford EP, Lackas C, Hesterman J, **Lenkinski RE**, Fujii H, **Frangioni JV**. High-resolution Computed Tomography Of Single Breast Cancer Microcalcifications In Vivo. *Mol Imaging*. 2011 Apr 1.

Iuanow E, Kettler M, **Slanetz PJ**. Spectrum of Disease in the Male Breast. *AJR Am J Roentgenol*. 2011 Mar;196(3):W247-59. [CME. WEB. Pictorial Essay]

Jefferson AL, Himali JJ, Au R, Seshadri S, Decarli C, O'Donnell CJ, Wolf PA, **Manning WJ**, Beiser AS, Benjamin EJ. Relation of Left Ventricular Ejection Fraction to Cognitive Aging (from the Framingham Heart Study). *Am J Cardiol*. 2011 Aug 29.

Khan A, Khosa F, **Eisenberg RL**. Cystic lesions of the pancreas. *AJR Am J Roentgenol*. 2011 Jun;196(6):W668-77.

Khan A, Khosa F, Nasir K, Yassin A, **Clouse ME**. Comparison of Radiation Dose and Image Quality: 320-MDCT Versus 64-MDCT Coronary Angiography. *AJR Am J Roentgenol*. 2011 Jul;197(1):163-8.

Khan A, Nasir K, Khosa F, Saghir A, Sarwar S, **Clouse ME**. Prospective Gating With 320-MDCT Angiography: Effect of Volume Scan Length on Radiation Dose. *AJR Am J Roentgenol*. 2011 Feb;196(2):407-11.

Khosa F, Khan AN, **Eisenberg RL**. Hypervascular liver lesions on MRI. *AJR Am J Roentgenol*. 2011 Aug;197(2):W204-20. Review.

Khosa F, Romney BP, Costa DN, **Rofsky NM**, **Manning WJ**. Prevalence of noncardiac findings on clinical cardiovascular MRI. *AJR Am J Roentgenol*. 2011 Apr;196(4):W380-6.

Khurd P, Bahlmann C, Maday P, Kamen A, Gibbs-Strauss S, Genega EM, **Frangioni JV**. COMPUTER-AIDED GLEASON GRADING OF PROSTATE CANCER HISTOPATHOLOGICAL IMAGES USING TEXTON FORESTS. *Proc IEEE Int Symp Biomed Imaging*. 2010 Apr 17;14-17 April 2010:636-639. PMID: PMC3017375.

Kirtane AJ, **Manning WJ**. Hypothyroid Cardiomyopathy: A Reversible Form of Systolic Heart Failure. *Am J Med*. 2011 Sep 7.

Klein JP, Arora A, Neema M, Healy BC, Tauhid S, Goldberg-Zimring D, Chavarro-Nieto C, Stankiewicz JM, Cohen AB, Buckle GJ, Houtchens MK, Ceccarelli A, Dell'oglio E, Guttman CR, **Alsop DC**, **Hackney DB**, Bakshi R. A 3T MR Imaging Investigation of the Topography of Whole Spinal Cord Atrophy in Multiple Sclerosis. *AJNR Am J Neuroradiol*. 2011 May

Koshkareva YA, Weinstein GS, Feldman M, **Moonis G**. Steatocystoma simplex of the infratemporal fossa: An uncommon location for a rare entity. *Ear Nose Throat J*. 2011 Jan;90(1):E16-8.

Krajewski KM, Giardino AA, Zukotynski K, Van den Abbeele AD, **Pedrosa I**. Imaging in renal cell carcinoma. *Hematol Oncol Clin North Am*. 2011 Aug;25(4):687-715.

Krajewski KM, Guo M, Van den Abbeele AD, Yap J, Ramaiya N, Jagannathan J, Heng DY, Atkins MB, McDermott DF, Schutz FA, **Pedrosa I**, Choueiri TK. Comparison of Four Early Posttherapy Imaging Changes (EPTIC; RECIST 1.0, Tumor Shrinkage, Computed Tomography Tumor Density, Choi Criteria) in Assessing Outcome to Vascular Endothelial Growth Factor-Targeted Therapy in Patients With Advanced Renal Cell Carcinoma. *Eur Urol*. 2011 Feb 1. [Epub ahead of print]

Kressel HY. Scientific dialogue: vestige of the past or hope for the future? *Radiology*. 2011 Jan;258(1):12-4.

Kressel HY. Editor's Note. *Radiology*. 2011 Apr;259(1):306.

Kressel HY. Challenges and opportunities for imaging journals: emerging from the shadows. *Skeletal Radiol*. 2011 Sep;40(9):1239-43.

Kressel HY, Dixon AK. Where Is the Honor in Honorary Authorship? *Radiology*. 2011 Mar 8.

Krishna S, Mittal V, Saxena AK, Sodhi KS, Lee MS, Kim MJ, Lee MJ, Yoon CS, Han SJ, Oh JT, Park YN, **Levine D**, **Kressel HY**. Biliary atresia in neonates and infants. *Radiology*. 2011 Dec;261(3):997-8.

Kruskal JB, **Eisenberg R**, Sosna J, **Yam CS**, Kruskal JD, **Boiselle PM**. Quality initiatives: quality improvement in radiology: basic principles and tools required to achieve success. *Radiographics*. 2011 Oct;31(6):1499-509.

Kung JW, **Yablon CM**, **Eisenberg RL**. Bone marrow signal alteration in the extremities. *AJR Am J Roentgenol*. 2011 May;196(5):W492-510.

Lee EY, Greenberg SB, **Boiselle PM**. Multidetector Computed Tomography of Pediatric Large Airway Diseases: State-of-the-Art. *Radiol Clin North Am*. 2011 Sep;49(5):869-93.

Lee EY, Tracy DA, **Eisenberg RL**, Arellano CM, Mahmood SA, Cleveland RH, Zurakowski D, **Boiselle PM**. Screening of asymptomatic children for tuberculosis is a lateral chest radiograph routinely indicated? *Acad Radiol*. 2011 Feb;18(2):184-90. Epub 2010 Nov 20.

Lee EY, Tracy DA, Mahmood SA, Weldon CB, Zurakowski D, **Boiselle PM**. Preoperative MDCT Evaluation of Congenital Lung Anomalies in Children: Comparison of Axial, Multiplanar, and 3D Images. *AJR Am J Roentgenol*. 2011 May;196(5):1040-6.

Lee EY, Tse SK, Zurakowski D, Johnson VM, Lee NJ, Tracy DA, **Boiselle PM**. Children Suspected of Having Pulmonary Embolism: Multidetector CT Pulmonary Angiography--Thromboembolic Risk Factors and Implications for Appropriate Use. *Radiology*. 2011 Nov 21. [Epub ahead of print]

Lee EY, Zucker EJ, Tsai J, Tracy DA, Cleveland RH, Zurakowski D, **Boiselle PM**. Pulmonary MDCT Angiography: Value of Multiplanar Reformatted Images in Detecting Pulmonary Embolism in Children. *AJR Am J Roentgenol*. 2011 Dec;197(6):1460-5.

Lee JH, Choi HS, Nasr KA, Ha M, Kim Y, **Frangioni JV**. High-throughput small molecule identification using maldi-tof and a nanolayered substrate. *Anal Chem*. 2011 Jul 1;83(13):5283-9. Epub 2011 Jun 8.

Lee KS, Muñoz A, Báez AB, **Ngo L**, **Rofsky NM**, **Pedrosa I**. Corticomedullary differentiation on T1-Weighted MRI: Comparison between cirrhotic and noncirrhotic patients. *J Magn Reson Imaging*. 2011 Oct 26. doi: 10.1002/jmri.22852.

Leung AN, Bull TM, Jaeschke R, Lockwood CJ, **Boiselle PM**, Hurwitz LM, James AH, McCullough LB, Menda Y, Paidas MJ, Royal HD, Tapson VF, Winer-Muram HT, Chervenak FA, Cody DD, McNitt-Gray MF, Stave CD, Tuttle BD; on behalf of the ATS/STR Committee on Pulmonary Embolism in Pregnancy. An Official American Thoracic Society/Society of Thoracic Radiology Clinical Practice Guideline: Evaluation of Suspected Pulmonary Embolism In Pregnancy. *Am J Respir Crit Care Med*. 2011 Nov 15;184(10):1200-1208.

Levenson RB, Pearson KM, Saokar A, Lee SI, Mueller PR, Hahn PF. Image-guided Drainage of Tuboovarian Abscesses of Gastrointestinal or Genitourinary Origin: A Retrospective Analysis. *J Vasc Interv Radiol*. 2011 May;22(5):678-86.

Lewis EI, Ozonoff A, Nguyen CP, Kim M, **Slanetz PJ**. Breast cancer close to the nipple: does this increase the risk of nodal metastasis at diagnosis? *Can Assoc Radiol J*. 2011 Aug;62(3):209-14. Epub 2010 May 27.

Liang W, **Eisenberg RL**, Ngo L, **Boiselle PM**, **Bankier AA**. Honorary Authorship: A Hawk Hovers over the Lower-Rank Academic. *Radiology*. 2011 Dec;261(3):996-7.

Li Y, Estroff JA, **Mehta TS**, Robertson RL, Robson CD, Poussaint TY, Feldman HA, Ware J, **Levine D**. Ultrasound and MRI of fetuses with ventriculomegaly: can cortical development be used to predict postnatal outcome? *AJR Am J Roentgenol*. 2011 Jun;196(6):1457-67.

Li Y, Sansgiri RK, Estroff JA, **Mehta TS**, Poussaint TY, Robertson RL, Robson CD, Feldman HA, Barnewolt C, **Levine D**. Outcome of fetuses with cerebral ventriculomegaly and septum pellucidum leaflet abnormalities. *AJR Am J Roentgenol*. 2011 Jan;196(1):W83-92.

Litmanovich D, Tack D, **Lin PJ**, **Boiselle PM**, **Raptopoulos V**, **Bankier AA**. Female Breast, Lung, and Pelvic Organ Radiation From Dose-Reduced 64-MDCT Thoracic Examination protocols: A Phantom Study. *AJR Am J Roentgenol*. 2011 Oct;197(4):929-34.

Madhuranthakam AJ, **Sarkar SN**, Busse RF, Bakshi R, **Alsop DC**. Optimized double inversion recovery for reduction of T(1) weighting in fluid-attenuated inversion recovery. *Magn Reson Med*. 2011 May 16. doi: 10.1002/mrm.22979.

Maleki N, **Alsop DC**, Dai W, Hudson C, Han JS, Fisher J, Mikulis D. The Effect of Hypercarbia and Hyperoxia on the Total Blood Flow to the Retina as Assessed by Magnetic Resonance Imaging. *Invest Ophthalmol Vis Sci*. 2011 Mar 29.

Maleki N, Dai W, **Alsop DC**. Blood flow quantification of the human retina with MRI. *NMR Biomed*. 2011 Jan;24(1):104-11. doi: 10.1002/nbm.1564. Epub 2010 Sep 22.

Maleki N, Dai W, **Alsop DC**. Optimization of background suppression for arterial spin labeling perfusion imaging. *MAGMA*. 2011 Oct 19.

Margulis AR, **Eisenberg RL**. Advancing in your career. *AJR Am J Roentgenol*. 2011 Sep;197(3):W382-3.

2011 Publications from our Faculty Members [New citations in Blue].

Maron MS, Olivotto I, Harrigan C, Appelbaum E, Gibson CM, Lesser JR, Haas TS, Udelson JE, **Manning WJ**, Maron BJ. Mitral Valve Abnormalities Identified by Cardiovascular Magnetic Resonance Represent a Primary Phenotypic Expression of Hypertrophic Cardiomyopathy. *Circulation*. 2011 Jun 13. [Epub ahead of print]

Mazhar A, Dell S, Cuccia DJ, Gioux S, Durkin AJ, **Frangioni JV**, Tromberg BJ. Wavelength optimization for rapid chromophore mapping using spatial frequency domain imaging. *J Biomed Opt*. 2010 Nov-Dec;15(6):061716.

McAlindon TE, Nuite M, Krishnan N, Ruthazer R, Price LL, **Burstein D**, Griffith J, Flechsenhar K. Change In Knee Osteoarthritis Cartilage Detected By Delayed Gadolinium Enhanced Magnetic Resonance Imaging Following Treatment With Collagen Hydrolysate: A Pilot Randomized Controlled Trial. *Osteoarthritis Cartilage*. 2011 Jan 17.

McMahon CJ, Madhuranthakam AJ, **Wu JS**, **Yablon CM**, **Wei JL**, Rofsky NM, **Hochman MG**. High-resolution proton density weighted three-dimensional fast spin echo (3D-FSE) of the knee with IDEAL at 1.5 tesla: Comparison with 3D-FSE and 2D-FSE-initial experience. *J Magn Reson Imaging*. 2011 Oct 27. doi: 10.1002/jmri.22829.

Melenevsky Y, **Yablon CM**, Ramappa A, **Hochman MG**. Clavicle and acromioclavicular joint injuries: a review of imaging, treatment, and complications. *Skeletal Radiol*. 2011 Jul;40(7):831-42. Epub 2010 Jun 6. Review.

Melzer TR, Watts R, Macaskill MR, Pearson JF, Rüeger S, Pitcher TL, Livingston L, Graham C, Keenan R, Shankaranarayanan A, **Alsop DC**, Dalrymple-Alford JC, Anderson TJ. Arterial spin labelling reveals an abnormal cerebral perfusion pattern in Parkinson's disease. *Brain*. 2011 Mar;134(Pt 3):845-55. Epub 2011 Feb 9.

Mendiratta-Lala M, **Brennan DD**, Brook OR, **Faintuch S**, Mowschenson PM, **Sheiman RG**, **Goldberg SN**. Efficacy of radiofrequency ablation in the treatment of small functional adrenal neoplasms. *Radiology*. 2011 Jan;258(1):308-16. Epub 2010 Oct 27.

Mendiratta-Lala M, **Eisenberg RL**, Steele JR, **Boiselle PM**, **Kruskal JB**. Quality Initiatives: Measuring and Managing the Procedural Competency of Radiologists. *Radiographics*. 2011 Jun 30. [Epub ahead of print]

Mieog JS, Troyan SL, Hutteman M, Donohoe KJ, van der Vorst JR, Stockdale A, Liefers GJ, Choi HS, Gibbs-Strauss SL, Putter H, Gioux S, Kuppen PJ, Ashitate Y, Löwik CW, Smit VT, Oketokoun R, Ngo LH, van de Velde CJ, **Frangioni JV**, Vahrmeijer AL. Toward Optimization of Imaging System and Lymphatic Tracer for Near-Infrared Fluorescent Sentinel Lymph Node Mapping in Breast Cancer. *Ann Surg Oncol*. 2011 Mar 1.

Moghari MH, Akçakaya M, O'Connor A, Basha TA, Casanova M, Stanton D, Goepfert L, Kissinger KV, Goddu B, Chuang ML, Tarokh V, **Manning WJ**, Nezafat R. Compressed-sensing motion compensation (CosMo): A joint prospective-retrospective respiratory navigator for coronary MRI. *Magn Reson Med*. 2011 Jun 10. doi: 10.1002/mrm.22950. [Epub ahead of print]

Moghari MH, Hu P, Kissinger KV, Goddu B, Goepfert L, Ngo L, **Manning WJ**, Nezafat R. Subject-specific estimation of respiratory navigator tracking factor for free-breathing cardiovascular MR. *Magn Reson Med*. 2011 Aug 29. doi:10.1002/mrm.23158.

Moghari MH, Peters DC, Smink J, Goepfert L, Kissinger KV, Goddu B, Hauser TH, Josephson ME, **Manning WJ**, Nezafat R. Pulmonary vein inflow artifact reduction for free-breathing left atrium late gadolinium enhancement. *Magn Reson Med*. 2011 Feb 28. doi: 10.1002/mrm.22769.

Mohammed TL, Chowdhry A, Reddy GP, Amorosa JK, Brown K, Dyer DS, Ginsburg ME, Heitkamp DE, Jeudy J, Kirsch J, Macmahon H, **Parker JA**, Ravenel JG, Saleh AG, Shah RD. ACR Appropriateness Criteria® Screening for Pulmonary Metastases. *J Thorac Imaging*. 2011 Feb;26(1):W1-W3.

Molinari F, **Bankier AA**, **Eisenberg RL**. Fat-containing lesions in adult thoracic imaging. *AJR Am J Roentgenol*. 2011 Nov;197(5):W795-813.

Nadig SN, **Pedrosa I**, Goldsmith JD, Callery MP, Vollmer CM. Clinical Implications of Mucinous Nonneoplastic Cysts of the Pancreas. *Pancreas*. 2011 Oct 19.

Novak V, Zhao P, Manor B, Sejdic E, **Alsop D**, Abduljalil A, Roberson PK, Munshi M, Novak P. Adhesion Molecules, Altered Vasoreactivity, and Brain Atrophy in Type 2 Diabetes. *Diabetes Care*. 2011 Sep 16.

Olmsted WW, **Kressel HY**. Challenges and opportunities in scientific publications in 2011: an analysis by the editors of the journals of the Radiological Society of North America (RSNA). *Radiologia*. 2011 Feb 9. [Epub ahead of print] English, Spanish.

Orcutt KD, Slusarczyk AL, Cieslewicz M, Ruiz-Yi B, Bhushan KR, **Frangioni JV**, Wittrup KD. Engineering an antibody with picomolar affinity to DOTA chelates of multiple radionuclides for pretargeted radioimmunotherapy and imaging. *Nucl Med Biol*. 2011 Feb;38(2):223-33. Epub 2010 Oct 27.

Pahade JK, Lebedis CA, **Raptopoulos VD**, Avigan DE, **Yam CS**, **Kruskal JB**, **Pedrosa I**. Incidence of Contrast-Induced Nephropathy in Patients With Multiple Myeloma Undergoing Contrast-Enhanced CT. *AJR Am J Roentgenol*. 2011 May;196(5):1094-101.

Palmer MR, **Donohoe KJ**, Francis JM, A Mandelbrot D. Evaluation of relative renal function for patients who had undergone simultaneous liver-kidney transplants using Tc-99m-MAG3 scintigraphy with attenuation correction from anatomical images and SPECT/CT. *Nucl Med Commun*. 2011 Aug;32(8):738-44.

Pedrosa I, Rafatzand K, Robson P, Wagner AA, Atkins MB, Rofsky NM, **Alsop DC**. Arterial spin labeling MR imaging for characterisation of renal masses in patients with impaired renal function: initial experience. *Eur Radiol*. 2011 Aug 30.

Pennell DJ, Firmin DN, Kilner PJ, **Manning WJ**, Mohiaddin RH, Prasad SK. Review of Journal of Cardiovascular Magnetic Resonance 2010. *J Cardiovasc Magn Reson*. 2011 Sep 13;13(1):48.

Perrone RD, Abebe KZ, Schrier RW, Chapman AB, Torres VE, Bost J, Kaya D, Miskulin DC, Steinman TI, Braun W, Winklhofer FT, Hogan MC, Rahbari-Oskoui F, Kelleher C, Masoumi A, Glockner J, Halin NJ, Martin D, Remer E, Patel N, **Pedrosa I**, Wetzel LH, Thompson PA, Miller JP, Meyers CM, Bae KT; for the HALT PKD Study Group. Cardiac Magnetic Resonance Assessment of Left Ventricular Mass in Autosomal Dominant Polycystic Kidney Disease. *Clin J Am Soc Nephrol*. 2011 Sep 8.

Pfefferbaum A, Chanraud S, Titel AL, Müller-Oehring E, **Shankaranarayanan A**, **Alsop DC**, Rohlfing T, Sullivan EV. Cerebral blood flow in posterior cortical nodes of the default mode network decreases with task engagement but remains higher than in most brain regions. *Cereb Cortex*. 2011 Jan;21(1):233-44. Epub 2010 May 19. PMID: PMC3000573.

Pianykh OS. Perfusion linearity and its applications in perfusion algorithm analysis. *Comput Med Imaging Graph*. 2011 Aug 24.

Pier DB, **Levine D**, Kataoka ML, Estroff JA, Werdich XQ, Ware J, Beeghly M, Poussaint TY, Duplessis A, Li Y, Feldman HA. Magnetic resonance volumetric assessments of brains in fetuses with ventriculomegaly correlated to outcomes. *J Ultrasound Med*. 2011 May;30(5):595-603.

Pillen S, van Alfen N, Sorenson EJ, Boon AJ, **Wu JS**, Darras BT, Rutkove SB. Assessing spinal muscular atrophy with quantitative ultrasound. *Neurology*. 2011Mar 8;76(10):933-4.

Pritchett Y, Jemai Y, Chang Y, Bhan I, Agarwal R, Zoccali C, Wanner C, Lloyd-Jones D, Cannata-Andia JB, Thompson T, Appelbaum E, Audhya P, Andress D, Zhang W, Solomon S, **Manning WJ**, Thadhani R. The use of group sequential, information-based sample size re-estimation in the design of the PRIMO study of chronic kidney disease. *Clin Trials*. 2011;8(2):165-74.

Rahimi AR, York M, Gheewala N, Markson L, Hauser TH, **Manning WJ**. Trends in outpatient transthoracic echocardiography: impact of appropriateness criteria publication. *Am J Med*. 2011 Aug;124(8):740-6.

Rana RS, **Moonis G**. Head and neck infection and inflammation. *Radiol Clin North Am*. 2011 Jan;49(1):165-82.

Ridge CA, **Bankier AA**, **Eisenberg RL**. Mosaic attenuation. *AJR Am J Roentgenol*. 2011 Dec;197(6):W970-7.

Ridge CA, O'Donnell CR, Lee EY, Majid A, **Boiselle PM**. Tracheobronchomalacia: Current Concepts and Controversies. *J Thorac Imaging*. 2011 Nov;26(4):278-289.

Riley AB, **Manning WJ**. Atrial fibrillation: an epidemic in the elderly. *Expert Rev Cardiovasc Ther*. 2011 Aug;9(8):1081-90.

Roberts-Klein S, **Iuanow E**, **Slanetz PJ**. Avoiding pitfalls in mammographic interpretation. *Can Assoc Radiol J*. 2011 Feb;62(1):50-9. Epub 2010 Sep 15. Review.

Robich MP, Osipov RM, Chu LM, Han Y, Feng J, Nezafat R, Clements RT, **Manning WJ**, Sellke FW. Resveratrol modifies risk factors for coronary artery disease in swine with metabolic syndrome and myocardial ischemia. *Eur J Pharmacol*. 2011 Aug 16;664(1-3):45-53. PMID: PMC3107708.

2011 Publications from our Faculty Members [New citations in Blue].

Rosen MP, Ding A, Blake MA, Baker ME, Cash BD, Fidler JL, Grant TH, Greene FL, Jones B, Katz DS, Lalani T, Miller FH, Small WC, Spottswood S, Sudakoff GS, Tulchinsky M, Warshauer DM, Yee J, Coley BD. ACR Appropriateness Criteria(®) Right Lower Quadrant Pain-Suspected Appendicitis. *J Am Coll Radiol*. 2011 Nov;**8**(11):749-55.

Rosen MP, Oake N, Forster AJ, Goelman A, Levy F. The effect of imaging capacity on the imaging workup of patients with stroke: a preliminary case for a cross-country comparison. *J Am Coll Radiol*. 2011 Jun;**8**(6):428-435.e3.

Sanchez LD, Straszewski S, Saghir A, Khan A, Horn E, Fischer C, Khosa E, **Camacho MA**. Anterior Versus Lateral Needle Decompression of Tension Pneumothorax: Comparison by Computed Tomography Chest Wall Measurement. *Acad Emerg Med*. 2011 Sep 26. doi: 10.1111/j.1553-2712.2011.01159.x. [Epub ahead of print]

Santelli C, Nezafat R, Goddu B, **Manning WJ**, Smink J, Kozerke S, Peters DC. Respiratory bellows revisited for motion compensation: Preliminary experience for cardiovascular MR. *Magn Reson Med*. 2011 Apr;**65**(4):1097-102. doi: 10.1002/mrm.22687. Epub 2010 Nov 3.

Sarkar SN, Alsop DC, Madhuranthakam AJ, Busse RF, Robson PM, **Rofsky NM, Hackney DB**. Brain MR Imaging at Ultra-low Radiofrequency Power. *Radiology*. 2011 May;**259**(2):550-7.

Schaafsma BE, Mieog JS, Hutteman M, van der Vorst JR, Kuppen PJ, Löwik CW, **Frangioni JV**, van de Velde CJ, Vahrmeijer AL. The clinical use of indocyanine green as a near-infrared fluorescent contrast agent for image-guided oncologic surgery. *J Surg Oncol*. 2011 Sep 1;**104**(3):323-32. doi: 10.1002/jso.21943. Review. PMID: PMC3144993.

Scheidegger R, **Vinogradov E, Alsop DC**. Amide proton transfer imaging with improved robustness to magnetic field inhomogeneity and magnetization transfer asymmetry using saturation with frequency alternating RF irradiation. *Magn Reson Med*. 2011 Nov;**66**(5):spcone. doi: 10.1002/mrm.23179.

Seth P, **Grant AK**, Tang J, **Vinogradov E, Wang X, Lenkinski RE**, Sukhatme V. On-target inhibition of tumor fermentative glycolysis as visualized by hyperpolarized pyruvate. *Neoplasia*. 2011 Jan;**13**(1):60-71.

Shaheen R, Schimmelpenninck CA, Stoddart L, Raymond H, **Slanetz PJ**. Spectrum of diseases presenting as architectural distortion on mammography: multimodality radiologic imaging with pathologic correlation. *Semin Ultrasound CT MR*. 2011 Aug;**32**(4):351-62. Review.

Shaheen R, Slanetz PJ, Raza S, **Rosen MP**. Barriers and opportunities for early detection of breast cancer in Gaza women. *Breast*. 2011 Feb 11.

Singh VK, Bollen TL, Wu BU, Repas K, Maurer R, Yu S, **Mortele KJ**, Conwell DL, Banks PA. An Assessment of the Severity of Interstitial Pancreatitis. *Clin Gastroenterol Hepatol*. 2011 Sep 3.

Slanetz PJ. Teaching appropriate, cost-effective care using the american college of radiology appropriateness criteria. *Acad Med*. 2011 Nov;**86**(11):e14.

Slanetz PJ. Ten steps to finding the right balance between career and family. *AJR Am J Roentgenol*. 2011 Nov;**197**(5):W814-6.

Son JK, Lee EY, **Eisenberg RL**. Focal nonvascular thoracic masses in children. *JR Am J Roentgenol*. 2011 Mar;**196**(3):W224-39.

Stolen CM, Lam YM, Siu CW, Lau CP, **Parker JA**, Hauser TH, Tse HF. Pacing to Reduce Refractory Angina in Patients with Severe Coronary Artery Disease: A Crossover Pilot Trial. *J Cardiovasc Transl Res*. 2011 Oct 26. [Epub ahead of print]

Sun X, **Bhadelia R**, Liebson E, Bergethon P, Folstein M, Zhu JJ, Mwamburi DM, Patz S, Qiu WQ. The relationship between plasma amyloid-β peptides and the medial temporal lobe in the homebound elderly. *Int J Geriatr Psychiatry*. 2011 Jun;**26**(6):593-601. doi: 10.1002/gps.2568.

Taylor-Phillips S, **Bankier AA, Levine D**, Halpern EF, **Kressel HY**. Considerations of prevalence and reporting environment for achieving realistic test conditions. *Radiology*. 2011 Mar;**258**(3):959-60.

Thadhani R, Appelbaum E, Chang Y, Pritchett Y, Bhan I, Agarwal R, Zoccali C, Wanner C, Lloyd-Jones D, Cannata J, Thompson T, Audhya P, Andress D, Zhang W, Ye J, Packham D, Singh B, Zehnder D, **Manning WJ**, Pachika A, Solomon SD. Vitamin D Receptor Activation and Left Ventricular Hypertrophy in Advanced Kidney Disease. *Am J Nephrol*. 2011 Jan **18**;33(2):139-149. [Epub ahead of print]

Thornton E, Brook OR, Mendiratta-Lala M, **Hallett DT, Kruskal JB**. Application of failure mode and effect analysis in a radiology department. *Radiographics*. 2011 Jan-Feb;**31**(1):281-93. Epub 2010 Oct 27.

Thornton E, Mendiratta-Lala M, **Siewert B, Eisenberg RL**. Patterns of fat stranding. *AJR Am J Roentgenol*. 2011 Jul;**197**(1):W1-W14.

Tokuda J, Mamata H, Gill RR, Hata N, Kikinis R, Padera RF Jr, **Lenkinski RE**, Sugarbaker DJ, Hatabu H. Impact of nonrigid motion correction technique on pixel-wise pharmacokinetic analysis of free-breathing pulmonary dynamic contrast-enhanced MR imaging. *J Magn Reson Imaging*. 2011 Apr;**33**(4):968-73. doi: 10.1002/jmri.22490. PMID: PMC3069717.

Toth R, Bloch BN, Genega EM, **Rofsky NM, Lenkinski RE, Rosen MA**, Kalyanpur A, Pungavkar S, Madabhushi A. Accurate Prostate Volume Estimation Using Multifeature Active Shape Models on T2-weighted MRI. *Acad Radiol*. 2011 Jun;**18**(6):745-54.

Tsao CW, Gona P, Salton C, Danias PG, Blease S, Hoffmann U, Fox CS, Albert M, Levy D, O'Donnell CJ, **Manning WJ**, Yeon SB. Subclinical and Clinical Correlates of Left Ventricular Wall Motion Abnormalities in the Community. *Am J Cardiol*. 2011 Jan 17. [Epub ahead of print]

Tsao CW, Gona P, Salton C, Murabito JM, Oyama N, Danias PG, O'Donnell CJ, **Manning WJ**, Yeon SB. Relationship between central and peripheral atherosclerosis and left ventricular dysfunction in a community population. *Vasc Med*. 2011 Jun 27. [Epub ahead of print]

Vachha B, **Sun MR, Siewert B, Eisenberg RL**. Cystic lesions of the liver. *AJR Am J Roentgenol*. 2011 Apr;**196**(4):W355-66. Review.

van der Vorst JR, Hutteman M, Mieog JS, de Rooij KE, Kaijzel EL, Löwik CW, Putter H, Kuppen PJ, **Frangioni JV**, van de Velde CJ, Vahrmeijer AL. Near-Infrared Fluorescence Imaging of Liver Metastases in Rats using Indocyanine Green. *J Surg Res*. 2011 Feb 2.

van der Vorst JR, Hutteman M, Gaarenstroom KN, Peters AA, Mieog JS, Schaafsma BE, Kuppen PJ, **Frangioni JV**, van de Velde CJ, Vahrmeijer AL. Optimization of near-infrared fluorescent sentinel lymph node mapping in cervical cancer patients. *Int J Gynecol Cancer*. 2011 Nov;**21**(8):1472-8. PMID: PMC3202695.

Vavere AL, Arbab-Zadeh A, Rochitte CE, Dewey M, Niinuma H, Gottlieb I, **Clouse ME**, Bush DE, Hoe JW, de Roos A, Cox C, Lima JA, Miller JM. Coronary artery stenoses: accuracy of 64-detector row CT angiography in segments with mild, moderate, or severe calcification--a subanalysis of the CORE-64 trial. *Radiology*. 2011 Oct;**261**(1):100-8. Epub 2011 Aug 9. PMID: PMC3176425.

Venkataraman S, Dialani V, Gilmore HL, Mehta TS. Stereotactic core biopsy: Comparison of 11 gauge with 8 gauge vacuum assisted breast biopsy. *Eur J Radiol*. 2011 Nov 27.

Venkataraman S, Hines N, Slanetz PJ. Challenges in mammography: part 2, multimodality review of breast augmentation--imaging findings and complications. *AJR Am J Roentgenol*. 2011 Dec;**197**(6):W1031-45.

Wu JS, Buettner C, Smithline H, Ngo LH, **Greenman RL**. Evaluation of skeletal muscle during calf exercise by 31-phosphorus magnetic resonance spectroscopy in patients on statin medications. *Muscle Nerve*. 2011 Jan;**43**(1):76-81.

Xiao G, Bloch BN, Chappelow J, Genega EM, **Rofsky NM, Lenkinski RE**, Tomaszewski J, Feldman MD, Rosen M, Madabhushi A. Determining histology-MRI slice correspondences for defining MRI-based disease signatures of prostate cancer. *Comput Med Imaging Graph*. 2011 Jan 19.

Yablon CM, Kapustin AJ, **Eisenberg RL**. Private practice: what is expected of the new graduate? *AJR Am J Roentgenol*. 2011 Jul;**197**(1):W21-2.

Yablon CM, Wu JS, Slanetz PJ, Eisenberg RL. A report on the current status of grand rounds in radiology residency programs in the United States. *Acad Radiol*. 2011 Dec;**18**(12):1593-7.

Yang W, **Ahmed M, Tasawwar B**, Levchenko T, Sawant RR, Collins M, Signoretti S, Torchilin V, **Goldberg SN**. Radiofrequency ablation combined with liposomal quercetin to increase tumour destruction by modulation of heat shock protein production in a small animal model. *Int J Hyperthermia*. 2011;**27**(6):527-38.

Zhang L, Bhasin M, Schor-Bardach R, **Wang X**, Collins MP, Panka D, Putheti P, Signoretti S, **Alsop DC**, Libermann T, Atkins MB, Mier JW, **Goldberg SN**, Bhatt RS. Resistance of renal cell carcinoma to sorafenib is mediated by potentially reversible gene expression. *PLoS One*. 2011 Apr 29;**6**(4):e19144. PMID: PMC3084751.

Zheng X, **Alsop DC**, Schlaug G. Effects of transcranial direct current stimulation (tDCS) on human regional cerebral blood flow. *Neuroimage*. 2011 Jun 16. [Epub ahead of print]

Contact Donna Wolfe, Radical Views editor:
dwolfe@bidmc.harvard.edu or call 617-754-2515