# Radical Views... from the Department of Radiology

# February 2010

| Mon   | Tues  | Wed   | Thurs  | Fri  |
|---|---|---|--|--|
| 1<br>7:30 - 9:00<br>Private Practice vs academic<br>radiology (Yablon)<br>3:00-4:00<br>ED section meeting (monthly)<br>[ED annex, WCC]<br>check w/Sheila Blalock 4-2506 | 2<br>7:30 - 9:00<br>Disability Insurance and Financial<br>Planning (Ryan)<br>1:00 - 2:00<br>MRI meeting (weekly) [TCC-484]  | <b>3</b><br>7:30 - 8:15<br>Town Hall Meeting<br>8:15-9:15<br>Malpractice (Eisenberg)<br>Weekly Wed Section Meetings:<br>11:00-12:00 MSK clinical conference<br>12:00-1:00 Thoracic Imaging, Gl<br>Oncology/GU Oncology<br>3:00-4:00 Mammo [TCC-484] | <b>4</b><br><b>8:30 - 5:00</b><br><b>EVENT: ACR Inservice Exam</b><br>Weekly Thurs Section Meetings:<br>12:00 - 1:30 Abd [WCC-354]<br>12:00-1:00 MSK | 5<br>12:00-1:00<br>No Resident Case Conference<br>3:45 - 6:45<br>EVENT: NERRS: Pediatric<br>Imaging  |
| 8<br>7:30-9:00<br>(Raptopoulos)   | <b>9</b><br>7:30 - 8:15<br>Pelvic Trauma I (Camacho)<br>8:15-9:00<br>Pelvic Trauma II (Camacho)<br>10:30-11:30<br>Nuc Med meeting (GZ-103)  | 10<br>7:30 - 8:15<br>Lung Cancer Staging (Boiselle)<br>8:15-9:00<br>Chest Cases (Boiselle)  | <b>11</b><br>7:30 - 8:15<br>Neuro Conference (Livingston)<br>8:15 - 9:00<br>Neuro Conference (Peri)  | <b>12</b><br>7:30 - 8:00 Grand Rounds: Role<br>of the Radiologist in the Care of<br>Patients Prior to and After Liver<br>Transplantation (Thornton)<br>8:00 - 9:00 Emergency cardiac<br>imaging (Udo Hoffmann)<br>12:00-1:00 Resident Case<br>Conference (Kleefield) |
| 15  | 16<br>7:30 - 8:15<br>Surgical Mgmt of the Breast<br>(Houlihan)<br>8:15-9:00<br>Breast Conference (Cyriac)<br>8:00 - 9:00<br>IR meeting [West Recovery Rm]   | <b>17</b><br>7:30 - 8:15<br>Ultrasound Cases (McArdle)<br>8:15 - 9:00<br>Nuc Med (Kolodny)  | 18<br>7:30 - 8:15<br>Orthopedic Hardware (Yablon)<br>8:15-9:00<br>Orthopedic Hardware +/- QA<br>(Yablon/Eisenberg/Senior<br>Resident)                | <b>19</b><br>7:30 - 9:00 Chief Rounds<br>12:00 - 1:00 Resident Case<br>Conference (Moonis)<br>[Clouse Conf Rm]   |
| <b>22</b><br>7:30 - 9:00<br>(Pedrosa)   | 23<br>7:30 - 8:15<br>(Reddy)<br>8:15 - 9:00<br>(Reddy)<br>10:30-11:30<br>Nuc Med meeting (GZ-103)<br>EVENT: 12 Noon Mentoring Program:<br>Critical Thinking in Research<br>(Lenkinski) [Kirstein Living Rm] | 24<br>7:30 - 8:15<br>Mediastinal Masses (Boiselle)<br>8:15 - 9:00<br>Chest Cases (Boiselle)   | 25<br>7:30 - 8:15<br>Neuro Conference (Madden)<br>8:15 - 9:00<br>Neuro Conference (Moonis)   | 26<br>7:30 - 8:00 Grand Rounds:<br>Characterization of Liver Lesions by<br>MRI (Khosa)<br>8:00-9:00 Clinical Investigations<br>in 320-Detector Row CT (Frank<br>Rybicki)<br>12:00 - 1:00<br>Resident Case Conference (Peri)<br>[Clouse Conf Rm]                      |

## FEBRUARY GRAND ROUNDS: Visiting Professors x2



## February Visiting Professors: Grand Rounds February 12th

## Udo Hoffman, MD, PhD, MPH

Friday, February 12 8:00 - 9:00 am, Sherman Auditorium

Following the 7:30-8:00 am Bread & Butter lecture on the "Role of the Radiologist in the Care of Patients Prior to and After Liver Transplantation" presented by Dr. Eavan Thornton (Fellow, Abd Imaging), **Dr. Udo Hoffman** will present **"Emergency Cardiac Imaging"** at Grand Rounds on February 12th. Dr. Hoffman is Associate Professor of Radiology at HMS and Director of Cardiac MR PET CT Program at MGH as well as the Director of the CT Core Lab for the Framingham Heart Study. He earned his MD from the University of Leipzig Medical School, Germany, his PhD in Cardiovascular Imaging from the University of Vienna, Austria and his MPH in Clinical Effectiveness from Harvard University, Boston. An impressively funded investigator, he has authored more than 150 publications. Dr. Hoffman has over 15 years of experience in noninvasive cardiovascular imaging. His primary research interests relate to a multidisciplinary research approach to systematically assess and validate the clinical utility of novel cardiovascular imaging technologies from bench to bedside. Over the last 10 years he has worked on the technical, analytical, clinical, epidemiological, and economic aspects of invasive and noninvasive imaging of atherosclerosis. One of the most daunting challenges is to translate early technical progress in imaging into improvement of the clinical management of patients. The assessment and validation of biomarkers for clinical outcomes in cardiovascular imaging is one of his major goals. *[Excerpted form MGH Vascular & Interventional web page]* 

## February Visiting Professors: Grand Rounds February 26th



### Frank Rybicki, MD, PhD

Friday, February 26 8:00 - 9:00 am, Sherman Auditorium

Following the 7:30-8:00 am Bread & Butter lecture on "Characterization of Liver Lesions by MRI" presented by Dr. Faisal Khosa (Fellow, MRI), **Dr. Frank Rybicki** will present **"Clinical Investigations in 320-Detector Row** 

**CT**" at Grand Rounds on February 26th. Dr. Rybicki is Associate Professor of Radiology at HMS and Director of Cardiac CT and Director of Vascular CT and MRI at Brigham and Women;s Hospital. He earned his MD and a PhD in Mechanical Engineering from Harvard-MIT (Division of Health Sciences and Technology). He is currently a member of the advisory boards of Bracco Pharmaceuticals, Siemens Medical Systems, Vital Images and ToshibaMedical Systems. A charter member of the Biomedical Imaging Technology Study Section, Center for Scientific Review at NIH, he also serves on Appropriateness Criteria Committee Expert Panels of the American College of Radiology as Vice-Chair for Vascular Imaging and member for cardiovascular imaging. Dr. Rybicki's lab was the first to demonstrate that cardiac CT can completely replace catheter angiography for a specific clinical indication, namely patients who undergo repeat coronary bypass surgery. More recently, his group provided the first peer-review evaluation of 320-detector row CT and contributed to the literature in the evaluation and minimization of CT patient radiation, with specific applications in cervical spine and pulmonary embolism patients.



**FROM THE CHIEF** Jonathan B. Kruskal, MD, PhD

## Barry Sacks, New Chief of Interventional Radiology

I am delighted to announce that **Dr. Barry Sacks** will be our new Section Chief for Interventional Radiology, starting July 1, 2010. Barry received his training in Johannesburg, South Africa where he trained at Baragwanath Hospital, now the largest hospital in the world. After immigrating to the United States, Barry came to Boston and did his residency at BI, was appointed Chief resident in 1977 and became Chief of Vascular Radiology in 1982. Barry left BI to become Chief of Radiology at Metrowest Medical Center, a position he held untill 2004. Many of you know Barry through his weekly work here in IR, his passion for innovation and tireless patient-directed care, as well as his expertise in adrenal vein sampling, thyroid and parathyroid diseases. Few of you may know that he holds over 20 patents relating to catheter and probe development for laser ablation of vessels, and for developing laser endoscopes for spectroscopic imaging.



Dr. Barry Sacks

Members of the section have gone above and beyond to provide clinical coverage these past few months, and this is deeply appreciated by all of us. So too is all the work Sal Faintuch has done maintaining the schedule, taking additional call and stepping up for all administrative duties. Mel Clouse also deserves a huge thank you for so ably running the IR Fellowship Program, and Felipe Collares, Laura Perry and Muneeb Ahmed have continued to provide excellent and dedicated clinical service as well. Even Rob Sheiman took call and thanks also to Steve Reddy for filling in as needed!! I also want to recognise the Herculean efforts of our IR nurses, NP's, PA's and all of the IR technologists during this time. Thanks to all of you.

It truly is my pleasure to welcome Barry back "home", and to share in his vision for an expanded and integrated Division of Interventional Radiology.

### Congratulations Priscilla Slanetz!

It gives me great pleasure to announce that Priscilla Slanetz has been promoted to Associate Professor of Radiology at Harvard Medical School. Priscilla's area of excellence is Clinical Expetise and Innovation. She is nationally recognized for this expertise along with her many teaching and educational contributions. Priscilla is the author of numerous cited publications, has received grant funding, is a recognized and popular mentor of colleagues and trainees, and has developed innovative and cited educational curriculae for medical students at both HMS and at MIT. Her clinical innovations, her passion for teaching and mentoring, her leadership roles in breast MRI and our residency program as well as her successful publication record of progressive scholarship all contributed to this most deserved promotion. Please join me in congratulating Priscilla on this achievement.

### Silverman Submissions

Dear Residents, As a group, you did a truly fantastic job with your **Silverman submissions** this year - a total of 22 QA projects were submitted from our Department! I know the QA rotation has had its trips and stumbles, but you should be extremely proud of the high quality end products that have come out of your projects started and completed this past year. For those of you new to the system, this is an annual quality and safety celebration highlighting quality improvement efforts across the institution. Projects that get selected will be exhibited for all to see, and this year the best of these will be made available to the Board and Trustee's for a private viewing. Those selected to show their projects at the private viewing will also be invited to a special dinner with a renowned guest speaker, Don Berwick, head of the Institute for Healthcare Improvement. I can't remind you enough how important it is that we expose our Radiology quality and safety faces out there for all to see, and your contributions were roundly excellent, thoughtful, practical and professional, and you should honestly all be very proud. Thanks so much, *– Jonny* 

## **DEPARTMENTAL NEWS, AWARDS & HONORS**

**Books in Print: Congratulations Alex Bankier!** Alex is the second author from our very active Thoracic Imaging section to publish a major textbook this year. We are in the process of setting up a way to display these works in the department as we anticipate the publication of several more. Please stop by the Radiology Offices (WCC-3) for a hands-on look at these impressive tomes.



Alex Bankier, MD, Associate Professor of Radiology at HMS, is a member of the Thoracic Imaging section and Director of Respiratory Functional Imaging, Director of the Resident's Scholar Track Program, Educational Co-Chair of the New England Roentgen Ray Society, and a Deputy Editor for Radiology

**Imaging of Diseases of the Chest** 5th edition, Elsevier, 2010, over 3000 illustrations



Almost four years ago, I received the invitation to join David M. Hansell, David A. Lynch, and Page McAdams in co-authoring the 5th edition of "Imaging of Diseases of the Chest". Now that I hold the freshly published book in hand, the difficult work and quite a number of sleepless nights are (almost) forgotten. Originally created by the legendary Peter Armstrong,

"Imaging of Diseases of the Chest" is designed as a single volume, comprehensive reference text to provide all the information about chest radiology that both generalists and junior chest radiologists need to know. The text provides a multimodality coverage throughout all chapters and groups of diseases, with the new edition including functional imaging and other upcoming technologies. Numerous summary tables and graphs facilitate navigation through the text. The text is complemented by over 3000 radiographic images. Novel features of the new edition include color graphs and labeling, practical tips and pitfalls, and bulleted summaries of key features. Emphasis is put on cost-effective image and modality selection. This addresses the hugely important issue of cost-containment by underlining which imaging modality is helpful and which is not, in any given clinical context. The new edition also provides access to the full text online, with the option to download images from the internet. Finally, the book gives access to the latest version of the Fleischner Society's Glossary of Terms for Thoracic Imaging. – *Alex Bankier* 

## • Save the Date: March 5, 2010

Congratulations to **Dr. Jim Wu** for being selected to be one of the presenters at *The Rising Stars of BIDMC Research* - *Research Day* – March 5, 2010. The day will consist of a number of 20 minute presentations followed by 5 minute Q&A by Young Investigators in the Sherman Auditorium. At the end of the day, there will be a reception in the CLS building lobby. Jim will be speaking on the "Evaluation of statin-associated myopathy with 31P-MR spectroscopy".

## Congratulations Eavan Thornton, Abdominal Imaging Fellow and Iva Petkovska, 2nd Yr Resident

**Eavan Thornton** was chosen as one of 10 radiologists to participate in the AUR Molecular Biology Imaging course at the annual meeting in San Diego (March 2010). This course which has been designed for faculty and trainees in Radiology interested in obtaining the background in Molecular Biology necessary to appreciate and understand the opportunities of Molecular Imaging. **Iva Petkovska** was chosen as one of 35 residents to participate in the week-long Siemens-AUR Radiology Resident Academic Development (SARRAD) Program in San Diego, March 2010. This program provides focused mentorship, leadership, and academic development activities to high-potential 2nd-year (PGY-3) radiology residents to better prepare for their transition into successful careers as leaders in academic radiology. I am sure these will be enriching experiences for Eavan and Iva and we are proud for them to represent our department. *– Jim Wu* 

## The Gallery is coming! The Gallery is coming!

The **Gallery at WCC-304A** is now operational and our first show features the photographs of Nuclear Medicine staffer and Residency Program Associate Director, **Dr. Kevin Donohe**. Kevin's work will be on display until April 30. We envision a rotating exhibit of 3 months each. If you would like to exhibit your pieces, please contact Donna Wolfe (4-2515).

**Artists's Statement:** "My father was a photographer when I was young. He gave me a few of his cast-off cameras but I was not very successful with film photography. At the time my daughter Lori was born, digital cameras were coming into their own. Digital provided the immediate feedback I needed to improve my photography. The f-stops, shutter speeds, ISO



settings and an immediate view of the photograph were all available the instant a photo was captured, allowing quick adjustments and another capture. I could take as many images as needed for no additional cost, and the images could be processed and printed immediately using Photoshop and an inkjet printer. The perfect technology for someone with a short attention span. The "Young Dancers" exhibit includes a few of the many photographs taken during Lori's dance recitals. When I review the photos of the girls after a long day at a recital I am always struck by the concentration and lack of pretension in their faces. They have a naturalness that will all too soon be replaced by a veneer of what they think they should be." – *Kevin Donohoe* 

## • Welcome Sofia Gourtsoyianni, our new CT Applications Research Fellow

Sofia completed her Radiology training at the University of Crete. During her residency she spent 2 months with us and was very productive with 1 first author and 1 second author papers from BIDMC (see below). She has 5 additional publications in peer-review journals, including an article on diffusion imaging of the liver. Sofia started on Monday, January 4th and has spent the first four days through our bureaucracy, in orientation, health services etc. She will stay with us for 1 year and will concentrate on body CT applications with particular interest on the 320 Toshiba scanner and the new HD GE-scanner. Please remember to ask for her involvement in CT projects. Please join me and welcome Sofia to BIDMC Radiology. *– Vassili Raptopoulos* 

## Do you know... what a Kanban is?

Kanban is a concept related to Lean process improvement and just-in-time operations. A kanban card is a visual signal used to ensure that equipment, services or supplies will be available when required, and in the correct quantity.

Recently, the staff in Interventional Radiology on the West Campus implemented kanban cards to improve efficiency and reduce waste for interventional supplies. Kanban cards were created for each supply item – hundreds of different items in total. Here is an example (right):

When a kanban is visible in front of a supply item, it is a signal for staff to put it in the re-order basket. Every day, the re-order basket is reviewed and new orders are placed based on the information displayed on the kanban card. When the new supplies arrive, they are placed behind the existing quantity and the kanban card is returned to its correct location. Supplies are always set in the same place, and those with shorter expiration dates are place in the front.

Using this kanban system has reduced:

- The time to count inventory and review expirations by 12 hours/week
- The time to re-order supplies by 50% to 4 hours/week
- Time searching for supplies
- Over/under ordering supplies
- The number of expired products

## *Do you know...* how to buy a computer at BIDMC?

## Computer Purchasing Guidelines

New (and not-so-new faculty) interested in buying a computer should contact IS Support at 617-754-8080 or online at: http://research.bidmc.harvard.edu/AcademicIT/DesktopPurchase.asp

The IS Support Center is the main entry point for all computer requests, including quotes for laptop and desktop computers, printers and other equipment you need to access the BIDMC network. Users wishing to purchase new computer or printer equipment should contact IS for advice, product information and price quotes. In addition to getting very competitive prices for you, IS will also provide help in choosing pre-configured computer systems they can support. This means that if you buy a supported system, IS will help protect it, troubleshoot any system and hardware issues, and install common desktop applications such as MicroSoft Office, CCC, Citrix and virus protection, as well as information about remote access.

Download a copy of the *Research and Discretionary Computer Purchasing for Network Attached Equipment* (Policy #: RS-12) from the link above.



http://research.bidmc.harvard.edu/AcademicIT/DesktopPurchase.asp

(Note: contact **Jim Brophy**, Radiology PACS/Informatics Mgr. at 7-9547 for PACS access and the Radiology Media Lab (4-2510) for support of non-hospital standard applications such as Photoshop.)

**Do you know....** is a monthly feature designed to keep us up to date on necessary and relevant policies. Please contact the Radiology Quality Management Team for more information.



What next? Kanbans are in the process of being implemented in IR on L2. Stay tuned!

## Monthly Section Updates: Emergency Radiology, Marc Camacho, MD - Chief

#### **Overview:**

The Emergency Radiology section, established in July 2007, is staffed with 4 full-time faculty members: Dr. Marc Camacho (section chief), Dr. Sejal Shah, Dr. Karen Lee, and our newest addition Dr. Robin Levenson, and our administrative assistant, Ms. Sheila Blalock. Dr. Amina Saghir also joined us as a volunteer research assistant in June 2009.



Marc Camacho

Sejal Shah

Karen Lee

Robin Levenson

Leadership is shared with the section members providing administrative functions within the section, department, and medical center:

- Emergency Medicine Morbidity & Mortality Conference (MC, KL, RL)
- Trauma Patient Care Committee/Trauma Case Conference (MC)
- Emergency Radiology QA (MC)
- Emergency Radiology resident education (SS)
- Radiation Safety Task Force (KL, RL)
- Radiology Residency Selection Committee (KL)

#### **Clinical:**

The section faculty provide clinical coverage of the BIDMC emergency department from 8 am to 11 pm weekdays, and weekends & holidays from 3 pm to 11 pm working closely with, and supervising, BIDMC radiology residents in multi-modality, multi-organ system imaging. Of course, as the only radiology attending in-house during evening hours, we are frequently called upon to assist in the protocoling and interpretation of any-modality, any-organ system imaging on any patient in the medical center.

A number of new initiatives have been started recently either from, or in tight collaboration with, the section including coronary CT angiography (CoCTA) for chest pain in the ED, the emergent upload and re-interpretation of outside hospital imaging on transfer patients, the reduction in oral contrast use in abdominopelvic CT scanning in the ED and new procedures aimed at reducing response time in Code Stroke presentations.

Section members regularly provide onsite coverage of the body MRI section at BIDMC and at BIDMC Radiology community facilities, namely Harrington at Hubbard Regional Medical Center and the Beth Israel Deaconess at Needham. An important component of the clinical responsibilities of the emergency radiology section is teleradiology coverage of after-hours imaging (principally 2 EDs) from the department's newly-acquired facilities at Harrington Memorial Hospital and Harrington at Hubbard Regional Medical Center.

We wish to recognize the important contributions of technologists acquiring imaging in a challenging environment, subspecialty colleagues in the department assisting with off-hours readouts, and overnight assistance from nighthawk radiologists from Israel. However, the largest share of gratitude goes to our hard-working residents who staff the front lines every night, night after night. Their commitment and dedication to excellent patient care represent the department in the highest manner.

#### **Research:**

The section has numerous projects under way, including but not limited to:

- Radiography utilization in nontraumatic abdominal pain
- Use of imaging in altered mental status evaluations
- Impact of re-interpreting outside hospital imaging on transfer patients
- Frequency and follow up on recommended MR imaging from C-Spine CT for trauma
- Diagnostic yield of multi-phasic imaging in chest pain
- Impact of reducing oral contrast use on patient throughput in the ED
- Measuring chest wall width from CT scans to optimize needle thoracostomy in tension pneumothorax
- Evaluation of a commercial software package that automatically analyzes coronary CTA data for critical stenoses

We will also be collaborating on 2 multicenter studies on renal colic imaging and cerebrovascular CTA in C-spine fractures. Finally, a paper authored by former section member, Dr. Shoey Ganguli, and three other staff members, on the 5 year experience with the call proficiency exam was published in AJR in February 2009. Section members also regularly review for internationally recognized journals such as *Radiology, Emergency Radiology*, and the *Journal of Thoracic Imaging*, among others.

#### **Education:**

The section spearheads the organization and delivery of the emergency radiology core lecture series to the radiology residents every January. While delivering a number of the talks, this is also a

large collaborative effort and we wish, at this point, to thank all of our subspecialty colleagues for their help in completing the core curriculum requisite lectures. With the lecture series just wrapped up, the section members are working with Dr. Sam Yam to produce this year's ED case-based call-proficiency exam.

Section members also actively participate in the core medical student radiology clerkship headed by Dr. Gillian Lieberman, and regularly lecture to emergency medicine and trauma surgery residents. Section members also recently collaborated with our Emergency Medicine counterparts co-authoring numerous chapters in a textbook on emergency imaging.

#### Summary:

We look forward to building on a solid foundation based on the three-pronged mission of the department and strengthening the various collaborations within and external to the department.



**2010 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 to be included in next month's issue. Please note that publications with Epub dates in Dec 2009 are retained here as the paper publication date will indeed be in 2010.

Appelbaum L, **Sosna J**, Pearson R, Perez S, Nissenbaum Y, <u>Mertyna</u> <u>P</u>, Libson E, **Goldberg SN**. Algorithm optimization for multitined radiofrequency ablation: comparative study in ex vivo and in vivo bovine liver. Radiology. 2010 Feb;254(2):430-40.

Beeghly M, Ware J, Soul J, Plessis AD, Khwaja O, Senapati GM, Robson CD, Robertson RL, Poussaint TY, Barnewolt CE, Feldman HA, Estroff JA, **Levine D**. Neurodevelopmental outcomes of fetuses referred for ventriculomegaly. Ultrasound Obstet Gynecol. 2010 Jan 12. [Epub ahead of print]

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Kressel HY. Radiology online: a new look. Radiology. 2010 Jan;254(1):4-6.

Lee BT, Matsui A, Hutteman M, Lin SJ, Winer JH, Laurence RG, **Frangioni** JV. Intraoperative Near-infrared Fluorescence Imaging in Perforator Flap Reconstruction: Current Research and Early Clinical Experience. J Reconstr Microsurg. 2009 Dec 21. [Epub ahead of print]

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Contact us:

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