

Radical Views...

from the Department of Radiology October 2009

Mon	Tues	Wed	Thurs	Fri
3:00 - 4:00 ED meeting [W ED annex] (check with Sheila Blalock 4-2506) REMINDER: RSNA participants: please notify (send your acceptance letters to) Donna Wolfe for inclusion in the BIDMC program guide	1:00 - 2:00 MRI meeting (weekly) TCC-484	11:00-12:00 MSK clinical conference (weekly) 12:00-1:00 (weekly) Thoracic Imaging meeting GI Oncology/GU Oncology meeting	1 7:30 - 8:15 MSK Infection (Yablon) 8:15 - 9:00 MSK Infection II (Yablon) 12:00 - 1:30 Abd meeting (weekly) WCC-354 12:00-1:00 MSK meeting (weekly)	2 7:30 - 9:00 No Grand Rounds 12:00 - 1:00 No Resident Case Conference EVENT: 3:45 - 6:45 NERRS: Emergency Imaging
5 7:30-9:00 Abdominal Conference (Tyagi)	6 7:30 - 8:15 Biliary Interventions (Perry) 8:15-9:00 Radiology Conference (Reddy) 10:30-11:30 Nuc Med meeting (GZ-103)	7 7:30 - 8:15 Ultrasound Cases (Romero) 8:30-9:00 Brain Scintigraphy (Hill)	8 7:30 - 8:15 Advanced Stroke Imaging (Hackney) 8:15 - 9:00 Chest Conference (Romero)	9 7:30-9:00 Grand Rounds: QA 12:00 - 1:00 Resident Case Conference (Rojas) [Clouse Conf Rm] 12:00-1:00 US section meeting [TCC-247A]
12	13 7:30 - 8:15 Breast Conference: Diagnostic Work-up (Roberts-Klein) 8:15-9:00 Breast Cases (Roberts-Klein) 10:30-11:30 Nuc Med meeting (GZ-103)	14 7:30 - 8:15 ICU Radiography (Spirn) 8:15 - 9:00 Cardiac Radiology (Paulin)	15 7:30 - 8:15 An Approach to Arthritis (Wu) 8:15-9:00 Arthritis Cases(Wu)	16 Grand Rounds: 7:30 - 8:00 CT & MR in Acute Aortic Diseases (Litmanovich) 8:00 - 9:00 Sven Paulin Lecture: Cardiac CT Angio: 5 years of progress at MUSC (Costello) 12:00 - 1:00 Resident Case Conference (Peri) [Clouse Conf Rm]
19 7:30-9:00 Abdominal Conference (Pedrosa)	20 7:30 - 8:15 IR Mgmt of Acute Bleeding (Collares) 8:15-9:00 Radiology Conference (Reddy) 8:00 - 9:00 IR meeting [West Recovery Rm]	21 7:30 - 8:15 Ovarian Masses (McArdle) 8:30-9:00 Radiation Protection (Palmer) 300-4:00 Mammo meeting [TCC-484]	22 7:30 - 8:15 Sella (Bhadelia) 8:15-9:00 Vascular Diseases (non-stroke) (Rojas)	23 7:30 - 9:00 Chief Rounds 12:00 - 1:00 Resident Case Conference (Teich) [Clouse Conf Rm]
26 7:30 - 9:00 Abdominal Conference (Raptopoulos)	27 7:30 - 8:15 Breast Conference: Distortion/Asymmetry (Shaheen) 8:15-9:00 Breast Cases(Shaheen) 10:30-11:30 Nuc Med meeting (GZ-103)	28 7:30 - 8:15 ICU Radiography II (Spirn) 8:15-9:00 Chest Radiograph Interpretations in Infants & Children (Visiting Prof. Dr. Lee- TCH)	29 7:30 - 8:15 Radiology of the Hip (Hall) 8:15 - 9:00 MSK QA (Eisenberg & Senior Resident)	30 7:30 - 9:00 Grand Rounds: State of the Department (Kruskal) 12:00 - 1:00 Resident Case Conference (Hackney) [Clouse Conf Rm]

DEPARTMENTAL NEWS, AWARDS & HONORS

• New Radiology Faculty: Muneeb Ahmed



With great pleasure we welcome Dr. Muneeb Ahmed back to our Radiology Department. Dr. Ahmed will join our Interventional Radiology Section on October 1. Dr. Ahmed received his undergraduate degree from The Aga Khan University Medical School in Karachi, Pakistan, after which he joined our department here at BIDMC as a research fellow as part of our NCI-funded cancer imaging fellowship program. Dr. Ahmed completed his radiology residency at Beth Israel Deaconess Medical Center and was appointed Chief Resident in 2007. He has recently completed his fellowship in Interventional Radiology at The Johns Hopkins Hospital/School of Medicine in Baltimore. Under the excellent guidance of Nahum Goldberg, Muneed has had an extremely successful academic career to date having published over 25 high impact articles in top-level peer-reviewed journals, as well as winning almost every award that the RSNA offers. Muneeb’s area of research expertise focusses on enhancing intratumoral delivery of liposomal-vector-delivered chemotherapies with radiofrequency ablation, methodology that he has already successfully translated from his benchtop into clinical practice. Many of you already know Muneeb and it is with immense pleasure that I welcome Muneeb back to our department. -JBK

• Resident Award for Erica Gupta

Please join me in congratulating 2nd year resident, Erica Gupta, on being selected to participate in the 2009-10 RSNA/ AUR/ARRS Introduction to Academic Radiology Program, to take place during the May 2 - May 7, 2010 ARRS Annual Meeting in San Diego, California. Erica will receive a \$1000 educational grant to join several top residents throughout the country in a week long course learning the importance of research in diagnostic radiology. I am sure this will be an enriching experience for her and we are proud for her to represent our department. - Jim Wu

• **Congratulation to the Graduating Class of the BIDMC School of Nuclear Medicine Technology**

The 2nd graduating class from the BIDMC School of Nuclear Medicine Technology was September 30th 2009. 6 students graduated and all had some amazing accomplishments over the 13th program. The graduates are: Courtney Chochrek, Courtney Foster, Heather Hansen, Joseph Kukler, Russell Miranda, and Jarred Trouve.



This group was great at the New England chapter meeting in Hartford, CT, when they presented oral presentations. BUT, they did not stop there; they went to Toronto and created a name for BIDMC & themselves with an amazing job with their projects/presentations at the national level! I had many techs and physicians from around the country that heard the presentations come up to me and say that this group did an amazing job! Joseph Kukler won an award for best oral presentation in the general nuclear medicine category.

They have all submitted their work for publication in the JNMT—the prestige NM journal for technologists.

Joseph was also the winner of a national scholarship award given by the SNM. Heather and Jarred were winners of the Cardinal Health Awards for their work done for the national meeting. In addition to these accomplishments, every graduate was awarded a travel scholarship to attend the national meeting in Toronto where they presented their research projects. 25 awards were given out and all 6 of our graduates received an award—this was out of approximately 80 submissions.

Finally, but certainly not last the most important thing, they all passed their boards last week! Congratulations!!!!

• **Mentoring Meetings 2009-2010**

In Spetember, we introduced the formal mentoring meetings for the 2009-2010 academic year, to be held on Tuesdays at noon, in general on the last Tuesday of the month, in the Kirstein Living room. As in prior years, the meetings will be moderated by either Bob Lenkinski or Debbie Levine, with special guest speakers from Countway Library and from our statistician Long Ngo. The topics and dates are subject to change.

9/29/09	Ethics in Research I. Conflicts of Interest at the BIDMC and Harvard (RL)
10/20/2009	Your CV and CV notebook (DL)
11/24/09	Ethics in Research II. Authorship Guidelines (RL)
12/15/09	Basic statistics for the Radiologist (LN)
1/26/2010	Negotiating the IRB process (DL)
2/23/2010	Critical Thinking in Research (RL)
3/30/2010	Literature searches (Countway librarian, DL)
4/20/2010	Approaches to Experimental Design (LN)
5/25/2010	Using EndNote (Countway librarian, DL)
6/22/2010	Grantsmanship 101 (RL)

Department of Radiology: A Leader in Improving Ergonomics in Radiology

Since 1999, our radiology department has been at the forefront of the new “digital era” of our specialty, in which hardcopy films have been replaced by a film-less workstation environment. Although a PACS-based environment has clearly enhanced the efficiency and quality of patient care, it is associated with an increased of risk repetitive stress symptoms and injuries for our radiologists and technologists.



Beginning in 2005, our department has worked closely with Occupational Health personnel to undertake several initiatives in order to identify the prevalence of repetitive stress symptoms and injuries, to enhance awareness of ergonomic issues, and to improve the ergonomic environment of our workplace. Because it is known that work-related musculoskeletal complaints can be related to workstation set up, chair design and settings, monitor placement and other issues related to the computer workstation, new adjustable tables and chairs have been installed in several reading rooms. Additionally, because an individual’s posture and positioning may contribute to repetitive stress symptoms and injuries, several training sessions and 2 educational Grand Rounds lecture were offered by Occupational Health personnel and Harvard School of Public Health faculty. A recent survey shows that these initiatives have had positive benefits. For example, for radiologists who received ergonomic chairs, tables, or training, a perceived reduction in repetitive stress symptoms was reported by 80%, 70%, and 80% of respondents, respectively, for each of these initiatives. These findings were shared with the radiology community at the 2007 RSNA meeting and were published in the Journal of the American College of Radiology. We also presented data regarding the prevalence of repetitive stress symptoms among technologists at the 2009 American Roentgen Ray Society meeting.

Our departmental Ergonomics Team is led by Dr. Phil Boisselle and comprised of the following members: Dieter Affeln (Occupational Health), Ron Eisenberg (Radiology faculty), Dana Lagrotta (US technologist), Deb Levine (Radiology faculty), Phil Purvis (PACS), Kathleen Shillue (Occupational Health), Dan Siegal (Radiology resident), Bettina Siewert (Radiology faculty) and Nancy Williams (administrative assistant).

Our goals are to further improve the safety of our workplace environment by ensuring that all of our work areas are ergonomically designed and by educating our staff regarding ergonomic principles. We are also currently working closely with specialists from the Harvard School of Public Health to redesign the way in which radiologists interact with computers in order to further enhance the safety of our workplace.

October Visiting Professor: Philip Costello, MD, FACR

Friday, October 16 Grand Rounds 8:00 am Sherman Auditorium: *Cardiac CT Angiography: 5 years of Progress at MUSC*



Dr. Costello returns to BIDMC to present the 3rd Annual Sven Paulin Lecture. Dr. Costello is the Professor and Chair of Radiology at the Medical University of South Carolina in Charleston. He completed his internship at Hamilton Civic Hospitals, Hamilton, Ontario and a Radiology residency at the University of Toronto and Toronto General Hospital, Canada. He joined the New England Deaconess Hospital in 1975 and became the Director of Computed Tomography and Pulmonary Radiology, rising to the rank of Associate Professor, Harvard Medical School in 1988. In 1996, he sojourned down under at the University of Adelaide, Australia for two years where he served as Director of Radiology at the Queen Elizabeth Hospital. He returned to the US as Chief of Chest Radiology at the University of Pittsburgh Medical Center but was lured back to Boston to serve as Chief of Thoracic Radiology, Brigham & Women’s Hospital, where he rose to Professor of Radiology in 2003. He was the Principal Investigator for the American College of Radiology, Contemporary Screening for the Detection of Lung Cancer (National Lung Screening Trial) at Brigham and Women’s Hospital until 2004 when he accepted the position of Chairman of Radiology at the Medical University of South Carolina in Charleston. Currently, he is the Chair of the Corporate Relations Committee, American Roentgen Ray Society and President of University Medical Associates, Medical University of South Carolina. He has authored 134 original papers and 33 review articles.

Monthly Section Updates: Thoracic Imaging, Phillip Boiselle, MD, Section Chief



Section Overview and Clinical Activities:

The Thoracic Imaging section is comprised of 7 full- and part-time staff and 1 fellow. Under the direction of Dr. Phil Boiselle, Section Chief, members of the division contribute collaboratively to its clinical, teaching, and research missions. Leadership within the section is shared and includes the following roles: Dr. Alex Bankier, Director of Respiratory Functional Imaging, leads the research activities of the section; Dr. Paul Spirn is the QA officer of the section; Dr. Ron Eisenberg serves as the liason for resident QA projects; and Dr. Diana Litmanovich oversees resident education. Drs. Sven Paulin and Janneth Romero also contribute to these important functions, and Nancy Williams provides outstanding administrative support. The section interprets more than 80,000 exams per year and is recognized for providing timely and expert interpretation of thoracic imaging studies with a service-oriented approach to referring clinicians, as evidenced by its participation in a variety of multidisciplinary conferences. Several of our faculty members also interpret studies for our community sites and/or for other sections.

Teaching:

The section takes pride in its educational activities, which span from local to international. The section holds a variety of teaching conferences for residents and our fellow, Dr. David O'Donnell, including a biweekly radiology-pathology conference, a weekly interesting case conference, and regularly scheduled resident morning conferences. Several faculty members are recipients and/or nominees for teaching awards for medical student and resident education. Most recently, Dr. Ron Eisenberg was awarded the annual Norman Joffe Award by the radiology residents, and Dr. Paul Spirn was nominated for the Harvard Medical School teaching award. Faculty members also have several educational leadership roles. Dr. Bankier is Director of the Resident Scholar’s Track Program and Dr. Boiselle is Director of the Resident Mentoring Program. Regionally, Dr. Bankier is an Educational Co-Chair for the New England Roentgen Ray Society and Dr. Boiselle is immediate Past-President of this educational organization. Nationally, Dr. Boiselle is the Director of the Chest Refresher Course at RSNA. The section looks forward to increasing its international educational mission through visiting international fellowships and professorships. Section members have also lectured at a variety of meetings, including the RSNA, ARRS, and 2nd World Congress of Thoracic Imaging. Section members have also served as lead authors or editors for several recently published and forthcoming textbooks including Case Review: Thoracic Imaging, 2nd Ed (Boiselle), Clinical Imaging: An Atlas of Differential Diagnosis, 5th Ed (Eisenberg), CT of the Airways (Boiselle), Imaging in Transplantation (Bankier), Medical Imaging: What You Need to Know (Eisenberg), and Thoracic Imaging: The Requisites, 2nd Ed. (Boiselle). The section has been recognized for its mentoring of residents and fellows in educational and research projects. Two resident project highlights of the past year were an RSNA educational exhibit by resident James Kang (mentored by Drs. Eisenberg and Litmanovich) that was awarded the Cum Laude award and accepted for publication and an article by resident Jay Pahade (mentored by Dr. Boiselle) that was published in Radiographics in June 2009.

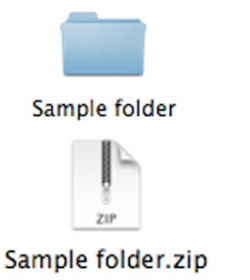
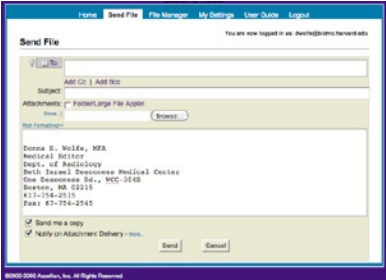
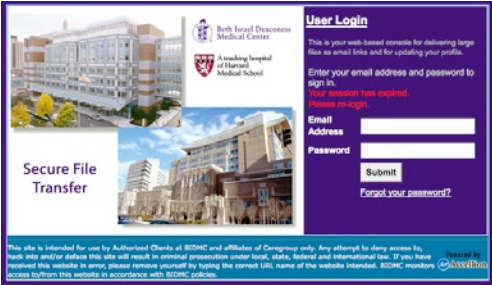
Research:

The section has a very active research division that is directed by Dr. Bankier, who runs a successful weekly research meeting that includes both didactic sessions and work-in-progress presentations. The section is currently involved in 3 grant-funded studies, including the NCI/ACRIN-sponsored National Lung Screening Trial, the NIH-sponsored “CT Diagnosis of Tracheomalacia in COPD” trial, and a NIOSH-Liberty Mutual sponsored ergonomic study. Mary Millett Pollock, RN, plays an important role in the successful running of grant-funded research studies. The section also has plans for an industry-supported computer aided detection study in the near future. The section is a recognized leader in several areas of investigation, including: airway imaging, emphysema, functional imaging, radiation dose reduction, imaging of pregnant patients, and outcome/utilization studies. Section members have published numerous articles in highly regarded peer-reviewed journals in the past year and have presented abstracts at the RSNA, ARRS, ECR, and 2nd World Congress of Thoracic Imaging meetings. Several faculty members also play important editorial roles for several radiology journals, including Dr. Bankier as Deputy Editor of Radiology, Dr. Boiselle as Editor-in-Chief of the Journal of Thoracic Imaging, and Dr. Eisenberg as Special Consulting Editor for AJR.

The Normal Did you know.... section has been preempted for a message from your Medical Editor:

Did you know.... about the Hospital's Secure File Transfer System?

This is a great way to send and recieve large files via a secure server that will not clog your existing e-mail account.



On the Caregroup Portal, type “secure file transfer” in the Search box and click on the link. At the User Login screen, type in your email address and ITS password and click *Submit*. Type in the recipient’s e-mail address. If you use the directory to look someone up, you will notice several addresses for each name. Make sure you use the normal e-mail address with the

8-letter convention otherwise, the receiver may have problems accessing your attachment. Click the *Browse* button to navigate to the file you want to send - usually on the desktop. Click *Open* to upload it. You can upload up to 10 attachments but the best way to send multiple files is to place them all in a folder and “zip” them. On a PC, this

means right-clicking on the folder, click on *Send To* and click on *Compressed (zipped) folder*. You wil now have a new file on your desktop with the same name as your folder but with .zip at the end. Upload this file onto the secure file transfer and your folder full of files/images will be downloaded by your recipient in only one click!

Did you know.... is a monthly feature designed to keep us up to date on necessary and relevant policies. Please contact Lynn Darrah, MSPT, MHA, Radiology Quality Management Team at ldarrah@bidmc.harvard.edu for more information.

2009 Notable 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.

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Burstein D. Tracking longitudinal changes in knee degeneration and repair. J Bone Joint Surg Am 2009; 91 Suppl 1:51-53.

Asch E, Levine D, Pedrosa I, Hecht JL, **Kruskal J.** Patterns of Misinterpretation of Adnexal Masses on CT and MR in an Academic Radiology Department(1). Acad Radiol. 2009 Apr 18. [Epub ahead of print]

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