

# Radical Views...

## from the Department of Radiology June 2009

| Mon  | Tues  | Wed   | Thurs  | Fri  |
|--|---|---|--|--|
| <b>1</b><br>7:30 - 8:15<br>IR Interesting Cases (Brennan)<br><br>3:00-4:00 No ED section meetings for June | <b>2</b><br>7:30 - 9:00<br>Body Conference (Brennan)  | <b>3</b><br>7:30 - 8:15<br>Breast Conference (Armada)<br>8:15 - 9:00 Chest Cases (Litmanovich)<br><br>11:00-12:00 MSK clinical conference (weekly)<br>12:00-1:00 (weekly):<br>Thoracic Imaging section meeting<br>GI Oncology/GU Oncology meeting<br>1:00 MR section meeting (weekly) | <b>4</b><br>7:30 - 8:15 TBA (Bedi)<br>8:15 - 9:00 TBA (Bhadelia)<br><br>12:00 - 1:30<br>Abd section meeting (weekly)<br><br>12:00-1:00<br>MSK section meeting (weekly) | <b>5</b><br>7:30-9:00 Grand Rounds: Quality Assurance (Hall)<br>12:00 - 1:00 Resident Case Conference (Bhadelia) [Clouse Conf Rm]<br>12:00 - 1:00 Chiefs Meeting         |
| <b>8</b><br>7:30 - 9:00<br>MR Pitfalls & Artifacts (Smith)   | <b>9</b><br>7:30 - 8:15<br>IR M&M (IR Staff)<br><br>10:30 - 11:30<br>Nuc Med staff meeting [GZ-103]<br><br>Scholar Track Educational Talks<br>5:00 - Networking in academic medicine (Kressel) [TCC-4 Conf Rm]                | <b>10</b><br>7:30 - 8:15<br>Ultrasound Cases (McArdle)<br>8:15 - 9:00 Chest Cases (Paulin)  | <b>11</b><br>7:30 - 9:00 MSK End of Year Fellow Talk (Geary)<br><br>6:30-11:00<br>Fleischner Graduation<br>[DeCordova Museum, Lincoln, MA]                             | <b>12</b><br>7:30-9:00 Grand Rounds: Fleischner Lecture<br>12:00 - 1:00 Resident Case Conference (Hackney) [[Clouse Conf Rm]<br>12:00-1:00 US section meeting [TCC-247A] |
| <b>15</b><br>7:30 - 9:00<br>Lower Extremity MRA (Rofsky)   | <b>16</b><br>7:30 - 9:00<br>Holiday Call Lottery<br>8:00-9:00 IR section meeting (weekly)<br>10:30-11:30<br>Nuc Med staff meeting (GZ-103)  | <b>17</b><br>7:30 - 8:15 IR Case Conference (Massrouf)<br>8:15 - 9:00 Chest Cases (Romero)<br>3:00-4:00 Mammo section meeting [TCC-484]   | <b>18</b><br>7:30 - 8:15<br>Head & Neck Flaps (Bedi)<br>8:15 - 9:00<br>A Survival Guide to Neuro MRI Protocols (Peri)  | <b>19</b><br>7:30 - 9:00 Grand Rounds: Chief Rounds<br>12:00 - 1:00 Resident Case Conference (Kleeefeld) [Clouse Conf Rm]  |
| <b>22</b><br>7:30 - 9:00<br>Abd Imaging Jeopardy (Sun)   | <b>23</b><br>7:30 - 8:15 Non-Vascular Use of Vascular Devices (Faintuch)<br>8:15 - 9:00<br>MSK end of yr talk: MR Finger Anatomy (Mangrulkar)<br><br>8:00 IR section meeting<br>10:30-11:30<br>Nuc Med staff meeting (GZ-103) | <b>24</b><br>7:30 - 8:15<br>Ultrasound Cases (Romero)<br>8:15 - 9:00<br>Chest Cases (Spirn)<br><br>3:00-4:00 Mammo section meeting [TCC-144]  | <b>25</b><br>7:30 - 8:15<br>Patellofemoral Tracking (McMahon)<br>8:15 - 9:00<br>MSK QA (Eisenberg & Senior Resident)   | <b>26</b><br>12:00 - 1:00<br>Resident Case Conference (Moonis) [Clouse Conf Rm]<br>No Grand Rounds: End of Year  |

DEPARTMENTAL NEWS

- As of June 1, **Clotell Forde** will be taking over the duties of Department Administrator, currently performed by Andrea Baxter. Andrea will be focusing on the administrative duties of the Chairman's Office. Clotell has been with the BI since 1993. During this time she has proven herself a valuable asset to our Department. Please join with me on congratulating her as she transitions into her new role. - **Carl Nickerson**
  - It gives me great pleasure to announce that **Neil Rofsky** has agreed to join our Radiology Executive Committee. We are fortunate to have Neil's wisdom, experience and enthusiasm, and we all look forward to working closely with Neil. He has a tremendous palette of skills that we will all benefit from, including being an outstanding guitarist, and a dedicated and devoted clinician, researcher and teacher. Neil serves in a leadership capacity on many national and international committees, and is widely and justifiably recognized as being one of the top MR clinicians in the world.  
  
Neil will be joining our Radiology Executive Committee:  
**Vassili Raptopoulos:** Clinical operations, quality & safety, clinical schedules  
**Max Rosen:** Community Imaging Services, faculty recruitment  
**Bob Lenkinski:** Research  
**Deb Levine:** Faculty Development, Trainee and education programs (residents, fellows, medical students)  
**Phil Boisselle:** Administration, including PACS, RIS and transcription services, & ergonomics  
**Bob Kane:** Senior advisor, including benefits, salaries and incentives  
  
Please join me in congratulating Neil, and in recognizing the tremendous effort put in by all members of the Committee.  
- **Jonny**
- ### Need an MRI?

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Our brand new MR unit will be opening  
July 1 at Harrington Hospital, Charlton,  
MA.

- In collaboration with the Associate chiefs, below is the established reporting expectations for turn around time, provisional impression findings and wet reads for Radiology. ***Our current April average was 28.17 hours which includes weekends and a median of 9.24 hours, so this is quite achievable!*** Thank you all for your attention to this important service indicator. - Donna Hallett

All In-patient exams get a PFI or are signed within 3 hours  
All cases IP and OP Done between Monday 7AM to Friday 4 PM  
Done to dictated: < 16 hours  
Dictated to Transcribed: < 4 hours  
Transcribed to Approved: < 16 hours  
  
Total no more than 36 hours for total TAT, average < 24 hours, median 9 hours.  
All Out patients cases done between 4 PM Fri and 7 AM Mon  
Must be dictated by 2 PM on Mon (*or 2 PM Tues when there is a Monday holiday*) and signed by 5 PM. Total no > 75 hrs.  
All In patients done between 4 PM Fri and 7 AM Mon will be completed within 24 hours with a PFI or signed within 3 hrs.  
Request for wet reads will be communicated to the reading room by the technologist when the exam is ordered *urgent* or *stat* or when a wet read has been requested. The expectation is the radiologist will call the requesting MD with the wet read.

- The Ultrasound Section of the BIDMC Radiology Department has successfully been re-accredited by the American College of Radiology in OG-GYN, Abdominal, General and Small Parts US, as well as Vascular US/Doppler for peripheral vascular, deep abdominal and retroperitoneal vascular studies.  
  
The ACR US Accreditation program is a rigorous assessment of the quality of performance at an US facility by board-certified physicians and medical physicists who are experts in the field, with strict Credentialing and Maintenance of Competence requirements for all physicians and technologists working at the facility, assessment of the quality of the scanning equipment (including routine maintenance records and phantom studies), as well as a requirement for submission of actual scans in all accreditation categories, both normal and abnormal, which are judged for technical and clinical competency, including the physician's reports. Accreditation provides a high level of confidence for patients, referring physicians and health care organizations that the highest quality care is being provided by the accredited facility.  
  
The US Section at BIDMC was deeply involved in the development and promulgation of the accreditation process for US facilities, helping to define the methodologies and improve and refine the operations of this effort. We are proud to have been one of the first US facilities to be accredited in the United States some 10+ years ago, and have successfully undergone the accreditation process 3 additional times. The accreditation period is for three years, and then must be renewed in order to assure adherence to the highest quality US practice.  
  
The Non-invasive Vascular Lab, which shares practice with US on the West campus, is also accredited by the Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL) for the full complement of non-invasive vascular assessment.  
  
- Robert A. Kane, MD, FACR

*Did you know....*

**Policy #GME-09 Guidelines for Graduate Medical Education Observation Experience**

**Why?** It is imperative that BIDMC take measures to protect the safety and rights of patients by insuring that all individuals functioning in clinical areas have been properly screened and credentialed.

**Who?** Any individual who comes to the medical center in an "observer" status must abide by the institution's policies for visitors, even though the observer may be a qualified physician or health care professional. An observer must wear a BIDMC identification badge when on the premises. The observer agrees not to render patient care and may not counsel patients. He/she may not perform or participate in the performance of any procedures. The patient's attending staff physician must receive permission from the patient to allow the observer to be present when care is being provided. Observers are the responsibility of the sponsoring attending faculty physician and sponsoring Department.

Complete an Observer Data Form (Attachment A) and submit this form, along with a written request for observer status, which includes a description of the proposed educational experience, to the Graduate Medical Education Office. Sign and submit to the Graduate Medical Education Office, an Observer Agreement (Attachment B) to indicate understanding of the nature of observer status and agreement with its terms.

Provide the following to the Graduate Medical Education Office: (1) letter of recommendation from current training institution; (2) curriculum vitae; (3) documentation of eligibility for participation as an observer while in the United States; (4) copy of medical license, if applicable; (5) letter from sponsoring BIDMC faculty physician confirming approval by Medical Staff Department and outlining elements of proposed experience; (6) documentation of health screening

*Did you know....* is a new monthly feature designed to keep us up to date on necessary and relevant policies. Please contact Yolanda Milliman-Richard, RN at ymillima@bidmc.harvard.edu or 617-754-2740 for more information.

Departmental Awards, Honors and Grants

- 2009 JOSEPH B MARTIN DEAN’S LEADERSHIP AWARD FOR THE ADVANCEMENT OF WOMEN FACULTY  
Congratulations to **Max Rosen** for being nominated for this important award at the May 21st meeting of the Harvard Faculty of Medicine. Initiated in 1998, this annual award recognizes a Harvard faculty member who is committed to the recruitment, retention, and advancement of women at Harvard Medical School and Harvard School of Dental Medicine.
- BIDMC RESIDENT AND FELLOW RESEARCH DAY 2009  
Congratulations to the participants and winners of this year’s Residents and Fellows Research Day, a hospital-wide effort to recognize trainee research efforts. Radiology was well-represented:  
2nd place Oral Presentation - **Faisal Khosa, MD**, ED Fellow  
2nd place Poster Presentation - **Colm McMahon, MD**, MSK & Body MR Fellow

- MORRISON RESEARCH DAY 2009  
This year’s annual celebration of research trainee efforts was well attended and well presented (10 talks, 13 posters) as we welcomed back MR section chief alumnus, **Robert Edelman** as our 14th Annua Laurie B. Morrison guest lecturer. Bob spoke on the challenges of MR of the human vasculature without gadolinium. The judges, Bob Lenkinski, Debbie Burstein, Ivan Pedrosa and Jonny Kruskal gave out 6 Morrison Research Awards for “Exemplary contributions to research in the Radiological Sciences” to: **Kelly J. Davis, PhD** and **Summer Gibbs-Strauss, PhD** (J. Frangioni, mentor); **Rakhee Sansgiri, MD** (D. Levine, mentor); **Phillip Robson, PhD** (D. Alsop, mentor); **Weiyang Dai, PhD** (D. Alsop, mentor) and **Colm McMahon, MD** (M. Hochman, mentor).



Drs. Rofsky, Edelman, Kruskal & Lenkinski



Dr. Kruskal shakes hands with our Morrison winners: Kelly Davis, Summer Gibbs-Strauss, Rakhee Sansgiri, Phil Robson, Weiyang Dai and Colm McMahon before they enjoy a well deserved buffet reception.

June Visiting Professor: **Jonathan G. Goldin, MbChb, Ph.D., FRCR** (Grand Rounds on Friday, June 12, 8:00-9:00 am)

Dr. Goldin will present the 16th Annual Risa and Feliz Fleischner Lecture, **Imaging of Biomarkers in Pulmonary Clinical Trials – Moving Beyond the Standard of Care**, on Friday June 12 in the Sherman Auditorium, East Campus during Grand Rounds (8:00 am - 9:00 am).

We are very fortunate to have Jonathan Goldin, MD, PhD as our 2009 Fleischner Lecturer. Dr. Goldin graduated MBChB from the University of Cape Town in 1983 and completed an internship in medicine at the prestigious Groote Schuur Hospital in Cape Town. Thereafter he completed a PhD in Pulmonary Physiology at the University of Cape Town before commencing his radiology training in London, at St Bartholomew’s Hospital where he received his FRCR. He then came to the USA for a pulmonary imaging fellowship under Denise Aberle at UCLA and has rapidly progressed up the academic ladder. In 2006, he was promoted to Professor of Radiology and Professor of Medical Biophysics at the David Geffen School of Medicine, UCLA, rising from Assistant Professor to Professor in only 10 years. Currently Jonathan is Vice Chair for Clinical Operations at UCLA and Chief of the Dept of Radiology Santa Monica-UCLA Medical Center. He also directs the 3D laboratory and is heavily grant funded from federal and industrial sources. Jonathan is a popular invited lecturer around the world and we are thrilled to have him here as our Fleischner lecturer.

I hope you will all take the opportunity to meet him at the Fleischner Dinner and Graduation Ceremony on Thursday, June 11th at the DeCordova.

- Jonny

You are invited to  
the Department of Radiology  
at Beth Israel Deaconess Medical Center’s

16th Annual  
*Risa & Felix Fleischner Dinner*  
Guest of Honor:  
*Jonathan G. Goldin*  
*MbChb, PhD, FRCR*  
Professor of Radiology and Biomedical Physics  
Vice-Chairman-Clinical  
Chief of Radiology SMUCLA  
David Geffen School of Medicine

Thursday, June 11, 2009  
Cocktail Reception 6:30-7:30  
Dinner 7:30  
Presentations 8:00  
Resident Presentation 9:30

*DeCordova Museum, Lincoln, Massachusetts*



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.

Anderson SW, **Kruskal JB, Kane RA**. Benign hepatic tumors and iatrogenic pseudotumors. Radiographics 2009; 29:211-229.

Appelbaum E, Kirtane AJ, Clark A, Pride YB, Gelfand EV, Harrigan CJ, Kissinger KV, **Manning WJ**, Gibson CM. Association of TIMI Myocardial Perfusion Grade and ST-segment resolution with cardiovascular magnetic resonance measures of microvascular obstruction and infarct size following ST-segment elevation myocardial infarction. J Thromb Thrombolysis 2009; 27:123-129.

Appelbaum E, **Manning WJ**. Science to practice: can the combination of resting first-pass myocardial perfusion and late gadolinium-enhanced cardiovascular MR imaging help identify myocardial infarction resulting from coronary microembolization? Radiology 2009; 250:609-611.

Appelbaum L, **Kane RA, Kruskal JB, Romero J**, Sosna J. Focal hepatic lesions: US-guided biopsy--lessons from review of cytologic and pathologic examination results. Radiology 2009; 250:453-458.

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]

**Boiselle PM**, O'Donnell CR, **Bankier AA**, Ernst A, Millet ME, Potemkin A, Loring SH. Tracheal Collapsibility in Healthy Volunteers during Forced Expiration: Assessment with Multidetector CT. Radiology. 2009 May 6. [Epub ahead of print]

Brodoefel H, Burgstahler C, Sabir A, **Yam CS, Khosa F**, Claussen CD, **Clouse ME**. Coronary plaque quantification by voxel analysis: dual-source MDCT angiography versus intravascular sonography. AJR Am J Roentgenol 2009; 192:W84-89.

Brodoefel H, Burgstahler C, Heuschmid M, Reimann A, Khosa F, Kopp A, Schroeder S, Claussen C, **Clouse M**. Accuracy of dual-source CT in the characterization of non-calcified plaque: use of a colour-coded analysis compared with virtual histology intravascular ultrasound. Br J Radiol 2009.

Brook OR, Beck-Razi N, Abadi S, Filatov J, Ilivitzki A, **Litmanovich D**, Gaitini D. Sonographic detection of pneumothorax by radiology residents as part of extended focused assessment with sonography for trauma. J Ultrasound Med. 2009 Jun;28(6):749-55.

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

**Burstein D**, Hunter DJ. "Why aren't we there yet?" Re-examining standard paradigms in imaging of OA Summary of the 2nd annual workshop on imaging based measures of osteoarthritis. Osteoarthritis Cartilage 2009.

Chuang ML, **Manning WJ**. Left ventricular hypertrophy and excess cardiovascular mortality is late gadolinium enhancement the imaging link? J Am Coll Cardiol 2009; 53:292-294.

Ciocan R, **Lenkinski RE**, Bernstein J, Bancu M, **Marquis R, Ivanishev A, Kourtelidis F**, Matsui A, Borenstein J, **Frangioni JV**. MRI contrast using solid-state, B(1)-distorting, microelectromechanical systems (MEMS) microresonant devices (MRDs). Magn Reson Med 2009.

**Clouse ME**. Coronary plaque quantification: is there a "gold standard?" J Cardiovasc Comput Tomogr 2009; 3:32-34.

Cypess AM, Lehman S, Williams G, Tal I, **Rodman D**, Goldfine AB, Kuo FC, Palmer EL, Tseng YH, Doria A, **Kolodny GM**, Kahn CR. Identification and importance of brown adipose tissue in adult humans. N Engl J Med 2009; 360:1509-1517.

Dugar A, Farley ML, Wang AL, Goldring MB, Goldring SR, Swaim BH, Bierbaum BE, **Burstein D**, Gray ML. The effect of paraformaldehyde fixation on the delayed gadolinium-enhanced MRI of cartilage (dGEMRIC) measurement. J Orthop Res 2009; 27:536-539.

Elliott R, **Bloch NB**, Dewolf W, Fu Y, Sanda M, Tomaszewski J, Wagner A, **Rofsky NM**, Genega. Seminal Vesicle Invasion at Radical Prostatectomy: Correlation with Magnetic Resonance Images. Modern Pathology 2009;22:753.

Ernst A, Rafeq S, **Boiselle P**, Sung A, Reddy C, Michaud G, Majid A, Herth FJ, Trentham D. Relapsing polychondritis and airway involvement. Chest 2009; 135:1024-1030.

Fox CS, Gona P, Hoffmann U, Porter SA, Salton CJ, Massaro JM, Levy D, Larson MG, D'Agostino RB, Sr., O'Donnell CJ, **Manning WJ**. Pericardial Fat, Intrathoracic Fat, and Measures of Left Ventricular Structure and Function. The Framingham Heart Study. Circulation 2009.

**Ganguli S, Camacho M, Yam CS, Pedrosa I**. Preparing first-year radiology residents and assessing their readiness for on-call responsibilities: results over 5 years. AJR Am J Roentgenol 2009; 192:539-544.

Gansler DA, McLaughlin NC, Iguchi L, Jerram M, Moore DW, **Bhadelia R**, Fulwiler C. A multivariate approach to aggression and the orbital frontal cortex in psychiatric patients. Psychiatry Res 2009; 171:145-154.

Genega EM, **Bloch NB**, Dewolf W, Elliot R, Fu Y, Sanda M, Wagner A, **Rofsky NM**, Genga, EM. Correlation of Gleason Score and Tumor Size with Magnetic Resonance Image-Detected Prostate Cancer. Modern Pathology 2009;22:767.

Genega EM, Bloch NB, Dewolf W, Elliot R, Fu Y, Sanda M, Tomaszewski J, **Rofsky NM**. Correlation of Gleason Score and Tumor Size with Magnetic Resonance Image-Detected Prostate Cancer. Laboratory Investigation 2009;89:767.

Gervais DA, **Goldberg SN**, Brown DB, Soulen MC, Millward SF, Rajan DK. Society of Interventional Radiology position statement on percutaneous radiofrequency ablation for the treatment of liver tumors. J Vasc Interv Radiol 2009; 20:3-8.

Gourtsoyianni S, **Zamboni GA, Romero JY, Raptopoulos VD**. Routine use of modified CT Enterography in patients with acute abdominal pain. Eur J Radiol 2009; 69:388-392.

Guermazi A, Eckstein F, Hellio Le Graverand-Gastineau MP, Conaghan PG, **Burstein D**, Keen H, Roemer FW. Osteoarthritis: current role of imaging. Med Clin North Am 2009; 93:101-126, xi.

**Hackney DB**. Forget the diffusion--do we need T2-weighted MR images to detect early central nervous system injury? Radiology 2009; 250:303-304.

Hirsch AE, Mulleady Bishop P, Dad L, Singh D, **Slanetz PJ**. An increase in medical student knowledge of radiation oncology: a pre-post examination analysis of the oncology education initiative. Int J Radiat Oncol Biol Phys 2009; 73:1003-1008; quiz 1008 e1001-1008 e1002.

House M, **Bhadelia RA**, Myers K, Socrate S. Magnetic resonance imaging of three-dimensional cervical anatomy in the second and third trimester. Eur J Obstet Gynecol Reprod Biol 2009.

Humblet V, Misra P, Bhushan KR, Nasr K, Ko YS, Tsukamoto T, Pannier N, **Frangioni JV**, Maison W. Multivalent scaffolds for affinity maturation of small molecule cell surface binders and their application to prostate tumor targeting. J Med Chem 2009; 52:544-550.

Ibrahim T, Makowski MR, Jankauskas A, Maintz D, Karch M, Schachoff S, **Manning WJ**, Schömig A, Schwaiger M, Botnar RM. Serial contrast-enhanced cardiac magnetic resonance imaging demonstrates regression of hyperenhancement within the coronary artery wall in patients after acute myocardial infarction. JACC Cardiovasc Imaging. 2009 May;2(5):580-8.

Jessel RH, Zurakowski D, Zilkens C, **Burstein D**, Gray ML, Kim YJ. Radiographic and patient factors associated with pre-radiographic osteoarthritis in hip dysplasia. J Bone Joint Surg Am. 2009 May;91(5):1120-9.

Khaodhiar L, Brennan AM, Lima C, Chan JL, Mantzoros CS, **Manning WJ**, Danias PG, Veves A. Effect of valsartan on left ventricular anatomy and systolic function and aortic elasticity. Metabolism 2009; 58:682-688.

Kothavale AA, Yeon SB, **Manning WJ**. A systematic approach to performing a comprehensive transesophageal echocardiogram. A call to order. BMC Cardiovasc Disord. 2009 May 13;9(1):18. [Epub ahead of print]

Kritsaneepaiboon S, Lee EY, Zurakowski D, Strauss KJ, **Boiselle PM**. MDCT pulmonary angiography Evaluation of pulmonary embolism in children. AJR Am J Roentgenol 2009; 192:1246-1252.

**Kruskal JB, Anderson S, Yam CS**, Sosna J. Strategies for Establishing a Comprehensive Quality and Performance Improvement Program in a Radiology Department. Radiographics 2009.

Lattanzi R, Sodickson DK, **Grant AK**, Zhu Y. Electrodynamic constraints on homogeneity and radiofrequency power deposition in multiple coil excitations. Magn Reson Med 2009; 61:315-334.

Lee EY, **Litmanovich D, Boisselle PM**. Multidetector CT Evaluation of Tracheobronchomalacia. Radiol Clin North Am 2009; 47:261-269.

**Lenkinski RE, Wang X**, Elian M, **Goldberg SN**. Interaction of gadolinium-based MR contrast agents with choline: Implications for MR spectroscopy (MRS) of the breast. Magn Reson Med 2009.

**Lin PP**. Operational Logic and Functionality of Automatic Dose Rate and Image Quality Control of Conventional Fluoroscopy. Med. Phys 2009; 36 (5): 1486-1493.

**Litmanovich D, Boisselle PM, Bankier AA**. CT of pulmonary emphysema--current status, challenges, and future directions. Eur Radiol 2009; 19:537-551.

**Litmanovich D**, Gourevich K, Israel O, Gallimidi Z. Unexpected foci of (18)F-FDG uptake in the breast detected by PET/CT: incidence and clinical significance. Eur J Nucl Med Mol Imaging. 2009 May 1. [Epub ahead of print]

Matsui A, Lee BT, Winer JH, Vooght CS, Laurence RG, **Frangioni JV**. Real-time intraoperative near-infrared fluorescence angiography for perforator identification and flap design. Plast Reconstr Surg 2009; 123:125e-127e.

Matsui A, Lomnes SJ, **Frangioni JV**. Optical clearing of the skin for near-infrared fluorescence image-guided surgery. J Biomed Opt. 2009 Mar-Apr;14(2):024019.

**McMahon CJ, Bloch BN, Lenkinski RE, Rofsky NM**. Dynamic contrast-enhanced MR imaging in the evaluation of patients with prostate cancer. Magn Reson Imaging Clin N Am. 2009 May;17(2):363-83.

Miller JM, Dewey M, Vavere AL, Rochitte CE, Niinuma H, Arbab-Zadeh A, Paul N, Hoe J, de Roos A, Yoshioka K, Lemos PA, Bush DE, Lardo AC, Texter J, Brinker J, Cox C, **Clouse ME**, Lima JA. Coronary CT angiography using 64 detector rows: methods and design of the multi-centre trial CORE-64. Eur Radiol 2009; 19:816-828.

Moore DW, **Bhadelia RA**, Billings RL, Fulwiler C, Heilman KM, Rood KM, Gansler DA. Hemispheric connectivity and the visual-spatial divergent-thinking component of creativity. Brain Cogn 2009.

Neema M, Goldberg-Zimring D, Guss ZD, Healy BC, Guttmann CR, Houtchens MK, Weiner HL, Horsfield MA, **Hackney DB, Alsop DC**, Bakshi R. 3 T MRI relaxometry detects T2 prolongation in the cerebral normal-appearing white matter in multiple sclerosis. Neuroimage. 2009 Jul 1;46(3):633-41. Epub 2009 Mar 10.

**Nishino M, Lee KS**, Hatabu H. The spectrum of pulmonary sarcoidosis: Variations of high-resolution CT findings and clues for specific diagnosis. Eur J Radiol 2009.

Novak V, Haertle M, Zhao P, Hu K, Munshi M, Novak P, Abduljalil A, **Alsop D**. White matter hyperintensities and dynamics of postural control. Magn Reson Imaging 2009.

**Pahade JK, Litmanovich D, Pedrosa I, Romero J, Bankier AA, Boisselle PM**. Quality Initiatives: Imaging Pregnant Patients with Suspected Pulmonary Embolism: What the Radiologist Needs to Know. Radiographics 2009.

**Pannier N, Humblet V, Misra P, Frangioni JV, Maison W**. Multivalent peptidomimetics for tumor targeting. Adv Exp Med Biol. 2009;611:403-4.

**Pannier N, Frangioni JV, Maison W**. Mimicking natural globular structures with rigid scaffolds based on adamantane. Adv Exp Med Biol. 2009;611:99-100.

**Pedrosa I**, Laforvara M, Pandharipande PV, Goldsmith JD, **Rofsky NM**. Pregnant patients suspected of having acute appendicitis: effect of MR imaging on negative laparotomy rate and appendiceal perforation rate. Radiology 2009; 250:749-757.

Peters DC, Wylie JV, Hauser TH, Nezafat R, Han Y, Woo JJ, Taclas J, Kissinger KV, Goddu B, Josephson ME, **Manning WJ**. Recurrence of atrial fibrillation correlates with the extent of post-procedural late gadolinium enhancement: a pilot study. JACC Cardiovasc Imaging 2009; 2:308-316.

**Reddy AS, Dinobile D, Orgeta JE, Peri N**. Transoral approach to CT-guided C2 interventions. Pain Physician 2009; 12:253-258.

**Robson PM**, Madhuranthakam AJ, **Dai W, Pedrosa I, Rofsky NM, Alsop DC**. Strategies for reducing respiratory motion artifacts in renal perfusion imaging with arterial spin labeling. Magn Reson Med 2009.

**Rofsky NM**. Nephrogenic systemic fibrosis: considerations for the cardiologist. JACC Cardiovasc Imaging 2008;1(4):457-459.

Romney BP, **Khosa F**, Costa DN, Chan P, **Rofsky NM, Manning WJ**. Non-Cardiac Findings on Cardiovascular Magnetic Resonance Imaging Are Common: Impact of Imaging Sequences and Reading Session Format. Circulation 2008;118(18):S784-S785.

**Rosen Y, Lenkinski RE**. Sodium MRI of a Human Transplanted Kidney(1). Acad Radiol 2009.

Ruberg FL, Appelbaum E, Davidoff R, Ozonoff A, Kissinger KV, Harrigan C, Skinner M, **Manning WJ**. Diagnostic and prognostic utility of cardiovascular magnetic resonance imaging in light-chain cardiac amyloidosis. Am J Cardiol 2009; 103:544-549.

**Salazar GM, Faintuch S**, Gladstone SR, Lang EV. In vitro Analysis of Downstream Particulates with Mechanical Thrombectomy Devices: Comparison of 20-kHz Sonothrombolytic and Rotating Dispersion Wire Systems. J Vasc Interv Radiol 2009.

Schor-Bardach R, **Alsop DC, Pedrosa I, Solazzo SA, Wang X, Marquis RP**, Atkins MB, Regan M, Signoretti S, **Lenkinski RE, Goldberg SN**. Does Arterial Spin-labeling MR Imaging-measured Tumor Perfusion Correlate with Renal Cell Cancer Response to Antiangiogenic Therapy in a Mouse Model? Radiology. 2009 Jun;251(3):731-742.

Schulman JM, Christison-Lagay ER, Kozakewich HP, **Boisselle PM**, Burrows PE, Fox VL, Fishman SJ. Macrocystic lymphatic malformation in the pulmonary parenchyma. Ann Thorac Surg 2009; 87:1607-1609.

Solomon SD, Appelbaum E, **Manning WJ**, Verma A, Berglund T, Lukashevich V, Cherif Papst C, Smith BA, Dahlof B. Effect of the direct Renin inhibitor aliskiren, the Angiotensin receptor blocker losartan, or both on left ventricular mass in patients with hypertension and left ventricular hypertrophy. Circulation 2009; 119:530-537.

Stankiewicz JM, Neema M, **Alsop DC**, Healy BC, Arora A, Buckle GJ, Chitnis T, Guttmann CR, Hackney D, Bakshi R. Spinal cord lesions and clinical status in multiple sclerosis: A 1.5 T and 3 T MRI study. J Neurol Sci 2009; 279:99-105.

**Stoeck CT, Han Y, Peters DC, Hu P, Yeon SB, Kissinger KV, Goddu B, Goepfert L, Manning WJ**, Kozerke S, Nezafat R. Whole heart magnetization-prepared steady-state free precession coronary vein MRI. J Magn Reson Imaging. 2009 May 26;29(6):1293-1299. [Epub ahead of print]

**Sun MR**, Ngo L, Genega EM, Atkins MB, Finn ME, **Rofsky NM, Pedrosa I**. Renal cell carcinoma: dynamic contrast-enhanced MR imaging for differentiation of tumor subtypes--correlation with pathologic findings. Radiology 2009; 250:793-802.

Thomas JD, Zoghbi WA, Beller GA, Bonow RO, Budoff MJ, Cerqueira MD, Creager MA, Douglas PS, Fuster V, Garcia MJ, Holmes DR, Jr., **Manning WJ**, Pohost GM, Ryan TJ, Van Decker WA, Wieggers SE. ACCF 2008 Training Statement on Multimodality Noninvasive Cardiovascular Imaging A Report of the American College of Cardiology Foundation/American Heart Association/American College of Physicians Task Force on Clinical Competence and Training Developed in Collaboration With the American Society of Echocardiography, the American Society of Nuclear Cardiology, the Society of Cardiovascular Computed Tomography, the Society for Cardiovascular Magnetic Resonance, and the Society for Vascular Medicine. J Am Coll Cardiol 2009; 53:125-146.

**Tognolini A, Schor-Bardach R, Pianykh OS, Wilcox CJ, Raptopoulos V, Goldberg SN**. Body Tumor CT Perfusion Protocols: Optimization of Acquisition Scan Parameters in a Rat Tumor Model. Radiology 2009.

Vadnais M, Awtrey C, **Pedrosa I**. Breaking point: magnetic resonance imaging evaluation of an obstetric emergency. Am J Obstet Gynecol 2009; 200:344 e341-343.

**Williams G, Kolodny GM**. Retrospective study of coronary uptake of 18F-fluorodeoxyglucose in association with calcification and coronary artery disease: a preliminary study. Nucl Med Commun 2009.

**Williams G, Kolodny GM**. Method for decreasing uptake of 18F-FDG by hypermetabolic brown adipose tissue on PET. AJR Am J Roentgenol. 2008 May;190(5):1406-9.

Wykrzykowska J, Lehman S, Williams G, **Parker JA, Palmer MR**, Varkey S, **Kolodny G**, Laham R. Imaging of Inflamed and Vulnerable Plaque in Coronary Arteries with 18F-FDG PET/CT in Patients with Suppression of Myocardial Uptake Using a Low-Carbohydrate, High-Fat Preparation. J Nucl Med 2009.

Yao DF, DeWolf WC, Sanda MG, **Bloch BN**, Genega EM, Berry AM, Ngo L, **Rofsky NM**.Increased Positive Yield of Clinically Significant Prostate Cancer with Mri Prompted Biopsies. Journal of Urology 2009;181(4):2157.

**Zamboni GA**, Gourtsoyianni S, Sourlas E, **Raptopoulos VD**. Value of customized scan timing determined by tracking liver enhancement in oncology patients. J Comput Assist Tomogr 2009; 33:253-258.

Zhao P, **Alsop DC**, Abduljalil A, Selim M, Lipsitz L, Novak P, Caplan L, Hu K, Novak V. Vasoreactivity and peri-infarct hyperintensities in stroke. Neurology 2009; 72:643-649.