Scientific Abstracts:

Abdominal 64-MDCT for Suspected Appendicitis, Diverticulitis and Small Bowel Obstruction: Results of a Prospective, Randomized Study Comparing Use of Oral and IV Contrast versus IV Contrast Only. S Anderson, MD; J A Soto, MD; B C Lucey, MB BCH; J Jordan, MBA; J Ratevosian, MPH; A Ozonoff, PhD; et al.

Integration of 64-MDCT Extremity CT Angiography into Whole Body Trauma Imaging: Feasibility and Early Experience. B R Foster, MD; S Anderson, MD; J W Uyeda, BS; J T Rhea, MD; J A Soto, MD

Upper Extremity CT Angiography in Trauma: Early Experience with 64-Multidetector CT. B R Foster, MD; S Anderson, MD; J W Uyeda, BS; J T Rhea, MD; J A Soto, MD

What Is the Prevalence of Different MRI Features of Knee Osteoarthritis (OA) in Persons with Normal Knee Radiographs? A Guermazi, MD; D J Hunter; F W Roemer, MD; J Niu; C E McLennan, MSC; D T Felson

Paper Case Report Form (CRF) Assessment Using Response Evaluation Criteria in Solid Tumor (RECIST) in Patients Treated for Cancer. A Guermazi, MD; S Ounadjela, MD; N Bouzegou, MD; A Coulon, MD; R Sivarapakrishna, PhD; S Zaim, MD

Does Ethnicity Influence Women’s Preferences for Higher Recall from Screening Mammography with the Potential for Earlier Detection of Breast Cancer? N Jafari, MD; R A Yuyala, BS; A Ozonoff, PhD; J Jordan, MBA; P J Slanetz, MD, MPH

Comparison of CT Wait Times for English- and Spanish-Speaking Patients in a Non-Acute ED: A Prospective Study. J Jordan, MBA; J Ratevosian, MPH; K M Kramer, BS; S Anderson, MD; A Ozonoff, PhD; J A Soto, MD

Clinical Yield of CT Angiography of the Neck in Trauma Patients. J Kim, MD; O Sakai, MD, PhD

Imaging Head and Neck Amyloidosis: A. M Murakami, MD; J Kertesz, MD; J Berk, MD; O Sakai, MD, PhD

Extremity CT Angiography using 64-MDCT: Broadened Applications. S Pieroni, MD; B R Foster, MD; S Anderson, MD; J Pellegrino; J T Rhea, MD; J A Soto, MD

Correlation-time Diffusion Coefficient MRI of the Cervical Cord Using the Mixed-TSE Pulse Sequence and Phased Array Coil. R N Nadgir, MD, Boston, MA; R Irving; H Jara, PhD; O Sakai, MD

Correlation Time Diffusion MR Imaging of Aqueous Sucrose Solutions: An in Vivo Validation Study

R Irving, Boston, MA; O Sakai, MD; H Jara, PhD

Educational Abstracts:

Digital Mammographic Artifacts: What Are They and How Do I Fix Them? A Guermazi, MD; M Chung, MD; F W Roemer, MD; S Zaim, MD; D J Hunter; L Diaz, MD

MRI Features of Cystic Lesions around the Knee, Revisited. A Guermazi, MD; M Chung, MD; F W Roemer, MD; S Zaim, MD; D J Hunter; L Diaz, MD

The Common Vein: An Integrated Web-based Educational System That Applies Universal Principles to Structure and Reveals How They Apply in Health and Disease. A Davidoff, MD, DL Lee, MD, SS Tsai, MD, PJ Slanetz MD MPH, EH Smith MD, JB Mendel MD.

Radiologic Manifestations of Disease Affecting the Skin and Subcutaneous Tissues of the Breast. D Singh BA, AE Hirsch MD, PJ Kormguth MD PhD, PJ Slanetz MD MPH

Detection of Vascular Injuries in Blunt Pelvic Trauma Using 64MDCT. J Kertesz, MD; A M Murakami, MD; S Anderson, MD; J T Rhea, MD; J A Soto, MD

Orbital Emergencies: Seeing is Believing: C A Lebedis, MD; R Benyad-Cherif; A Z Mian, MD; G D Barest, MD; O Sakai, MD

A Computer-assisted Reading System for Tumor Response Assessment Based on International Workshop Criteria (IWC) for the Evaluation of Patients Treated for Lymphoma. A Guermazi, MD; K Carvajal; C Summer; S Ounadjela, MD; N Bouzegou, MD; S Zaim, MD

Interactive Atlas of Radiologic-Pathological Correlation in Metastases and Local Recurrence from Renal Cell Carcinoma (RCC). A Guermazi, MD; C Chelle, MD; G Hottya, MD; J EI-Hariry, MD; S Ounadjela, MD; S Zaim, MD

Subject Enrollment Has Commenced for the Ultravist Contrast Injection Study

Bayer Healthcare Pharmaceuticals, the makers of the Ultravist® contrast agent, is sponsoring an open-label, multi-center, non-randomized study with two non-comparative treatment arms for CECT at BUMC Radiology. Dr. Jarslow Tkacz is the Principal Investigator and Dr. Asim Mian is the Sub-Investigator of this study. The purpose of this study is to validate the safety and efficacy of Ultravist® 370 mg I/ml when used for taking Contrast-enhanced Computed Tomography (CECT) images of the head and/or body.

Approximately 430 subjects will be enrolled in this study at a total of 15 to 20 centers in the United States and India, with a maximum of 40 subjects at each center. Approximately 408 subjects will be given Ultravist® at the concentration being researched in this clinical trial (370 mg I/ml) and approximately 22 subjects will be given Ultravist® at the concentration already approved by the FDA for use in CT (300 mg I/ml). BUMC will be one of those two centers that will be enrolling the control group.

Radiology is actively seeking males and females who are 18 years or older, who are scheduled to have a CECT of their head and/or body at BUMC and who have not received IV contrast in the preceding 72 hrs. before their scheduled CECT. The first subject is scheduled to participate in the study during the first week of September. Screening for additional subjects is aggressively being executed. Please contact Kirise Kramer, Radiology Research Coordinator, at 8-6591 or pager 4880 should you wish to refer someone for participation in the study.

The Radiology Research Newsletter

Boston University Radiology

Volume 1, Issue 3

September, 2007

Radiological Society of North America Annual Meeting 2007 Scientific and Educational Abstract Acceptances

NEW RESEARCH ASSISTANT:

Meaghan Whalen is a new Research Assistant in the Radiology Department, replacing Jirair Ratevosian. She is a graduate of Boston College (class of 2007) where she received a Bachelor’s degree in Psychology and a Minor in Studio Art: Painting. Her activities at Boston College included raising money for the V-Day charity by directing and acting in a well known play, as well as 4 years with the improv murder mystery group The CCE. She has previously worked at Boston Medical Center in the Neurology Department as an RA and in the Emergency Department as a Unit Coordinator. Her interests include improv comedy, reading and scheduling your MRI research scans.
Spotlight on…Radiology Research Fellows

Please welcome our three new Research Fellows who joined us this year:

Michel Crema, MD is a native of Uberaba, Brazil. He is a French Board Certified Radiologist and completed his Residency at Hôpital Saint-Antoine at the Université de Paris VI. His research interests are in the areas of musculoskeletal and body imaging. He can be reached at michel.crema@bmc.org or 4-4957.

Monica Marra, MD is from Coromandel, Brazil. She is also French Board Certified Radiologist and completed her Residency at Hôpital Saint-Antoine at the Université de Paris VI. Her research interests are in the areas of musculoskeletal and body imaging. She can be reached at monica.marra@bmc.org or 4-4959.

Naoko Saito, MD is a Japanese Board Certified Radiologist who completed her Residency at Tokyo Women’s Medical University where she is currently employed as an instructor. Her research interests focus on head and neck imaging, specifically using CT Perfusion. Naoko can be reached via email at naoko.saito@bmc.org or page: 1059.

Neuroradiology collaborates with Radiation Oncology for CT Perfusion Head and Neck study

Currently, Neuroradiology has partnered with Radiation Oncology in an effort to collect research data for a BUMC generated CT Perfusion Head and Neck study currently taking place on the Harrison Avenue Campus. Dr. Min Tam Truong from Radiation Oncology is the Principal Investigator and Dr. Osamu Sakai from Neuroradiology is the Co-Investigator of this study.

CT Perfusion is a non-invasive method of measuring blood flow through tumor tissue, which can provide functional information about the tumor in addition to its location and size as determined by conventional CT scan. This study examines whether CTP improves the accuracy of delineating tumor and Dr. Osamu Sakai from Neuroradiology is the Co-Investigator of this study.

CT Perfusion for Clinical Departments

The Radiology Research Department also operates as an imaging service provider that assists with research studies 20 other departments @ BMC and BU. Many of these departments utilize imaging as an endpoint for their studies. To date, Radiology has helped to schedule, scan and complete research documents for over 300 non-Radiology generated study subjects contributing to our departmental revenue.

Incremental Research Scan Volume (as of 9/07)

Funded Research Projects with Radiology

<table>
<thead>
<tr>
<th>Study Name</th>
<th>Radiologist PI</th>
<th>Description of Study</th>
<th>Current Enrollment</th>
</tr>
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<tbody>
<tr>
<td>GE Brain Attack</td>
<td>Norbash</td>
<td>Comparison of CT Perfusion &amp; MR Perfusion in stroke patients</td>
<td>3</td>
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<tr>
<td>Clinical Applications for Quantitative MRI</td>
<td>Jara</td>
<td>Acquisition of Q-MRI data for adult and pediatric patient subjects for head, chest, body or extremity MRI</td>
<td>197</td>
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<tr>
<td>Berflex Ultravist</td>
<td>Tkacz</td>
<td>To document the safety and efficacy of Ultravist 370 mgI/ml in doses up to 162.2 ml for CECT of the head and/or body</td>
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<td>ITGP</td>
<td>Norbash</td>
<td>Neurovascular Simulation in Education</td>
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<td>VA Gulf War</td>
<td>Mian</td>
<td>Dr. Mian to read 3T MRIs on Gulf War victims</td>
<td>24</td>
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<tr>
<td>Philips Virtual Colonoscopy</td>
<td>Soto</td>
<td>Evaluation of Philips CAD workstation for Virtual Colonoscopy</td>
<td>80</td>
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<tr>
<td>Evaluation of CT Perfusion Imaging of Head and Neck Cancer Treated with Conformal External Beam Radiation Therapy</td>
<td>Truong/Sakai</td>
<td>To determine if CTP information results in changes in radiation field design and gross tumor volume delineation as compared to conventional CT imaging</td>
<td>6</td>
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Recent Publications

- Hirsch AE, Singh D, Slanetz PJ. Educating Medical Students about Radiation Oncology during the Radiology Core Clerkship: Initial Results of the Oncology Education Initiative JACR 2007 Oct;4(10

2007 Abstract Deadlines

- SIR – 10/07
- AUR – 12/07