

EMORY Radiology Newsletter

*It's what's on the inside
that counts!*

February, 2007

In this Issue:

Letter from the Chair	2
Current Research	2
New Procedures	3
Pretty in Pink	4
Publications	5
Awards & Recognition	6
Get Involved	7
New Faces & Appointments	8

REORGANIZING RADIOLOGY: Part I

The Radiology Renovation that was conceived in 2005 is underway at Emory University Hospital. Demolition is moving forward, plans are being finalized and relocations are occurring.

What was previously known as the Radiology Library is currently being converted into administrative offices.

The finalization of the

radiology layout occurred at the end of January and the updated schematics will be available for viewing sometime this month on the bulletin board located near the neuro-radiology reading room. Meanwhile, the overhaul of the MRI area is on the fast track for the installation of the 3T MRI unit. Simultaneously, preparations continue for the remainder of the MRI units to be relocated to the first floor.

The next area of focus is the former Film Library, located on the ground level. This area will be home to the MRI research staff, and conveniently located below the future home of the clinical aspect of MRI.



This project was initiated by the need to relocate the MRI units. When completed, the changes will bring all clinical aspects of radiology to the first floor and make



The finishing touches are being completed in the new Radiology Library and Education Center.

it more accessible for patients and staff. One area of improvement has already been accomplished, the Radiology Library. Relocated to the first floor of the Annex building, the Radiology Library will soon house 10 computers and a digital wipe board to facilitate the radiology students and faculty. The entire renovation is anticipated to be completed in 18 - 24 months.

Other up-coming changes:

- Improve the control room for the fluoro units and add medical gases
- Relocation of the Body Reading Room
- Adding IVR Room
- Pre/post Procedure Care Area (PPCA) will be relocated and Expanded
- Inventory supply area temporary relocated to ground floor
- Access to CT procedural room will be altered
- Reconfiguration of ultrasound
- Relocation of the majority of office space to the Ground Level

For further information regarding this project please contact Dale Walker or Jane Goldberg.

- Monica Johnson & Dale Walker

Letter from the Chair

Dear Colleagues,

It is an exciting time in our department and at Emory! The Radiology Renovation is underway and already has brought us new teaching facilities for our medical student programs. Over the next 18- 24 months, there will be a bit of dust in the air but this will give way to new reading rooms, improved patient areas, an expanded pre/post procedure care (PPCA) area and more. New space is needed to support our growing programs.

The successful Weens lecture last month featuring Dr. Jeffrey Koplan coincided with the announcement of Dr. Koplan's leadership of the

new Emory Global Health Institute. Indeed, Emory is leading the way in several key strategic health initiatives including Predictive Health, Respiratory Medicine, Transplantation and Regenerative Medicine, Heart and Vascular, and Neuroscience. Radiology faculty are playing key roles in all of these theme areas. Indeed, the second annual Emory-Georgia Tech Predictive Health Symposium held in December focused heavily on the potential impact of imaging biomarkers in predictive and personalized medicine and included talks by department faculty and the NIH Director (and radiologist!) Elias Zerhouni, MD PhD.

The greatest strength of our department is its faculty and staff. Joining our ranks is Dr. Michael Terk, our new Director of Musculoskeletal Imaging who brings with him considerable expertise in advanced imaging of bone marrow and cartilage. The ongoing installation of new 1.5 and 3.0T GE magnets at the Executive Park Spine Center will support cutting-edge musculoskeletal imaging under Dr. Terk's leadership. We are also grateful to Dr. Walt Carpenter for his able oversight of the Division of Musculoskeletal Imaging over the past year as Acting Director.

February is Heart Month and our new Siemens Dual-Source Definition scanner will be unveiled as part of the Cardiac Imaging Program led by Arthur Stillman, MD. It also marks the opening of Emory-Johns Creek Hospital, where Brannon Hatfield, MD will serve as Radiology's Medical Director.

Thank you all for being part of the vision of imaging at Emory!

Carolyn Cidis Meltzer, MD
Interim Chair of Radiology



Current Research

Comparing the Accuracy of CT Colonography to Standard Colonoscopy to Detect Clinically Important Colorectal Neoplasia

Radiology: Todd Fibus, M.D., Leon Rubinsztain, M.D.
Gastroenterology: Mohammad Wehbi M.D., Kamil Obideen M.D.

- Compare sensitivity and specificity of CT Colonography to standard colonoscopy for polyp detection stratified by polyp size.
- Determine radiologist time necessary for exam interpretation.
- Assess patient preference for CTC compared to standard colonoscopy.
- Assess adequacy of colonic preparation and distention using this technique in the VA patient population.
- Assess reader interobserver variability.

Significance: Diagnostic CT Colonography has been offered on a routine clinical basis at the Atlanta VA since January 2006.

Stereo Digital mammography

Carl D'Orsi, M.D.

Can stereo mammography reduce recall from screening mammography while maintaining sensitivity?

Preliminary findings: Recalls reduced by 38% sensitivity increased by 14%

Significance: May be able to dramatically reduce recalls without sacrificing cancer detection

Preliminary Findings: We have imaged 53 asymptomatic screening patients. Of those 53 patients we've had 100% sensitivity and 93% specificity for detection of polyps greater than or equal to 9 mm (N = 8). These results are in keeping with some other published trials with larger numbers.

NEW PROCEDURES

A-Life Coding Software

The A-Life software accurately assigns ICD-9 codes, CPT codes, and HCPCS II codes based upon Medicare guidelines and enables medical coders to review the coding output anywhere, anytime via the Internet. The combination of A-Life Medical's patented computerized coding and rich management tools can increase staff's productivity up to 300%, improving coding consistency and compliance to positively impact an organization's bottom line.

This product will allow the coding staff to work more efficiently. The medical record, demographic data, and computerized coding results are easily viewed on a single screen. We are currently using the product to code our Egleston Radiology services and we are in the planning stages to utilize A-Life when Emory Johns Creek, opening this month. With this new technology coders are able to code faster and A-Life helped reduce charge lag by 50% at our Egleston location!

- Marcus Foster, Emory Clinic

Budget Adjustments

Deficit Reduction Act (DRA) payment reductions took effect January 1, 2007. These cuts are for government payors and only impact technical revenue. A 5 % reduction to professional fees was overturned. By modality, approximate cuts are as follows: Ultrasound-10%, PET-50%, MR-25%, CT-10%.

- Emory Clinic

EXPANDED PROCEDURES

Cardiac Imaging houses the newly installed Siemens Biograph 40 PET/CT in Building A. The new scanner will be a dedicated cardiac scanner, allowing the current PET scanner in Building C to become committed to Oncology. The new unit houses a 40-slice CT scanner in addition to the PET scanner.

Executive Park installed the first of the 2 new MR units mid-January. The 1.5 T scanner was delivered early January. You should have seen the crane lift it to the 4th floor.

Interventional Radiology's Direct Pathway has been approved by the ABR and candidates are being interviewed. Emory's program becomes the 17th program nationwide to join this pilot training sequence.

The **VA Hospital** has expanded Cardiac MRI service in CT Colonography, in efforts to grow cardiac MRI service. This step will improve patient access for needed procedures.

The **Pediatric Interventional Radiology** program that was approved by the ABR last year, and jointly sponsored by CHOA, was started last July and represents a 1 or 2 years of combined training in Pediatric Radiology and Pediatric Interventional Radiology. Our section joins very few programs nationwide to offer such a training.

Breast Imaging has increased MRI usage for Breast and MRI biopsy resulting in increased quality care for breast cancer patients.

RELATED TOPICS

Pretty in Pink

Look for the *Pink Patrol* in the lobby of the entrance near Asbury Court in Emory Hospital. These ladies take time on the last Wednesday

of each month, 11 a.m. - 2 p.m., to hand out information in efforts to educate and promote breast health.

The team has chosen this location to stimulate awareness among staff and faculty. There are physicians that specialize in Breast Health on campus and it is important for the employees of Emory Healthcare to know that they are receiving the best care.

At the booth you can receive information packets for Breast Cancer Awareness and Breast Cancer Survivorship, as well as useful items to keep as a reminder.



You can call **778-PINK** to schedule your mammogram screening or speak with a Breast Health Specialist. This hot-line can help you with any breast concerns you may have such as pain, a lump, abnormal mammogram or you simply have a few questions.



The members of the *Pink Patrol* include (as seen in the upper left photo):

Toni King, Nommo Combs, Christine McCarthy, Diana Pless, Patsy Jones and Donna McDaniel (missing from the photo)

SCANNERS

Would you like to contribute to the Radiology Newsletter?

Please submit news worthy information to your Section Head. This newsletter is your vehicle to communicate across the disciplines of Radiology.

Each month your Section Head will submit the compiled information to the Communications Specialist for Radiology, Monica Johnson. The content you supply will contribute the success of the newsletter.

Don't forget to let your Communication Specialist know of any photo opportunities to accompany your articles.

If you have any questions, comments or suggestions, contact Monica Johnson through e-mail or call extension 2-7912.



CHECK IT OUT

Recently Released Publications

Jaffe TA, Martin LC, Miller CM, Franklin KM, Merkle EM, Thompson W M, et al. Abdominal Pain: Coronal Reformations from Isotropic Voxels with 16-Section CT--Reader Lesion Detection and Interpretation Time. *Radiology*. 2007; 242: 175-181.

Keyserling HF, Provenzale JM. Posterior fossa herniation due to posterior reversible encephalopathy syndrome in a child. *American Journal of Roentgenol*. 2007;188(1):219—21.

Schuster DM, Votaw JR, Yu W, Nye JA, Goodman MM, Nieh PT, Master V, Issa MM, Bowman FD. Two Studies: Speeding Development of Novel Tracer for Prostate Cancer. *Journal of Nuclear Medicine*. SNM. 2007. <http://interactive.snm.org/index.cfm?PageID=5793>

Sechopoulos I, Suryanarayanan S, Vedantham S, D'Orsi CJ, Karellas A. Computation of the glandular radiation dose in digital tomosynthesis of the breast. *Medical Physics*. 34(1): 221-232, 2007.

Andrew T, Schuster DM, Alazracki N. *A Clinician's Guide to Nuclear Medicine*. 2nd Ed. Society of Nuclear Medicine; 2006. <http://interactive.snm.org/index.cfm?PageID=5370>

Fisher PM, Meltzer CC, Ziolko SK, Price JC, Hariri AR. Capacity for 5-HT1A mediated autoregulation predicts reactivity. *Nature Neuroscience*. 2006; 9(11):1362-1363.

Keyserling HF, Grimme JD, Camacho DLA, Castillo M. Nasal septal perforation secondary to rhinitis medicamentosa. *Ear Nose Throat J*. 2006; 85(6):376, 378-9.

Keyserling HF, Mukundan S Jr. The role of conventional CT and MR in the workup of dementia patients (reprint). *Magn Reson Imaging Clin N Am*. 2006; 14(2):169-82.

Sirineni GK, Kalra MK, Pottala K, Syed M, Tigges S, Cann AD. Visualisation techniques in CT Coronary Angiography. *Current Problems in Diagnostic Radiology*. November/December 2006.

Sirineni GK, Kalra MK, Pottala K, Waldrop S, Syed M, Tigges S. Effect of Contrast Concentration, Tube Potential and Reconstruction Kernels on MDCT Evaluation of Coronary Stents: an in Vitro Study. *Int J Cardiovasc Imaging*. 2006, in press.

Smith-Bindman R, Chu PW, Miglioretti DL, Sickles EA, Blanks R, Ballard-Barbash R, et al. Comparison of Screening Mammography in the United States and the United Kingdom. *AJR*. 2006; 187: 42-46. <http://jama.ama-assn.org/cgi/content/abstract/290/16/2129?etoc>

Suryanarayanan S, Karellas A, Vedantham S, and Sechopoulos I: Theoretical analysis of high resolution digital mammography. *Physics in Medicine & Biology*. 51: 3041-3055, 2006.

In Other News



Uterine Fibroid Embolization

Dr. Abbas Chamsuddin and Dr. Randy Martin were featured on Channel 2 Action News discussing the Uterine Fibroid Embolization procedure. In addition to the news coverage, this procedure is promoted through Interventional Radiology seminars every other month by Dr. Chamsuddin and Dr. Brandon Kang. These seminars allow possible candidates to attend a free informational session that offers them an alternative to surgery. The next Uterine Fibroid Embolization seminar will take place on March 15 at Crawford Long's Glenn Building Auditorium.

Awards & Recognition

Sunit Sebastian, M.D., research fellow

RSNA Awards

1. A to Z of 3-D Postprocessing Techniques in Gastrointestinal Tract. S Sebastian M.D., M Kalra M.D., M Turner RT, W Torres M.D., W Small M.D., Ph.D.: **Certificate of Merit**

2. Radiation: The Good (Hormesis), The Bad (Cancer), The Ugly (Overdose) S Sebastian M.D., W Small M.D., Ph.D., M Kalra M.D.: **Certificate of Merit**

3. Do Oral and Intravenous Contrast Have a Role in PET-CT Studies of the Abdomen and Pelvis?
S Sebastian M.D., M Kalra M.D., D Schuster M.D., M Blake M.D.: **Certificate of Merit**

Saravanan Namasivayam M.D., former research fellow

RSNA Award

Curved Planar Reformations for Multidetector Row CT Studies of Abdomen and Pelvis: Spectrum of Clinical Applications S Namasivayam M.D., M Kalra M.D., A Chamsuddin M.D., W Small M.D., S Kalva M.D., D Sahani M.D.: **Certificate of Merit**

Andrew Karellas, Ph.D.
Professor of Radiology,
Acting Vice Chair for Research

Dr. Karellas has been appointed to the position of Deputy Editor, of the Journal Medical Physics effective January 1, 2007.

Unni Udayasankar, M.D., research fellow

RSNA Awards

1. CT Perfusion in Oncology: Why, When, and How? U K Udayasankar, M.D.; M K Kalra, M.D.; W C Small, M.D., Ph.D. : **Certificate of Merit**

2. Low-Kilovoltage Protocol in MDCT: Noise, Contrast, Radiation Dose, and Image Quality J Li, M.D.; U K Udayasankar M.D.; M K Kalra, M.D.; T L Toth M.D.; W C Small, M.D., Ph.D. : **Accepted for Radiographics**

Ioannis Sechopoulos, M.S., research associate and doctoral candidate

The Winship Cancer Institute Research Symposium in October 26-27, 2006.

Awarded: "best scientific poster"

GET INVOLVED

VOTE

Make your mark by voting for the official name of the Radiology Newsletter...

Rad Report

Radiology Review

Eagle Eyes

Imaging Informer

Make your selection and send an e-mail with the subject line: MYVOTE to Monica.Johnson@emoryhealthcare.org. Then see the winner as the masthead on the next issue of the Radiology Newsletter.

A Special thanks to those who took the time to contribute to the first edition of the Radiology Newsletter. Your contributions have made this newsletter possible and your efforts are very appreciated.

Radiology Grand Rounds

February 2007

Wednesdays 7:30 - 8:15 a.m.
Emory University Hospital Auditorium

2/7/07 King C. Li, M.D.

2/14/07 Timothy Fox, Ph. D.

2/21/07 Elizabeth Oates, M.D.

2/28/07 Felix Chew, M.D.

Arrive at 7 am for a Complimentary Breakfast



2nd Annual Sprawls Lecture

February 7, 2007
EUH - 2nd Floor Auditorium
7:30 a.m. (Breakfast at 7 a.m.)

Dr. King C. Li Professor and Chair at The Methodist Hospital in Houston, Texas will be the speaker at the 2nd Annual Sprawls Lecture. This edition of the Radiology Grand Rounds is in honor of Dr.

Sprawls became Professor Emeritus of Radiology at Emory University School of Medicine, in 2005, at the conclusion of a 45-year tenure on the faculty that

began in 1960 in the Department of Physics. The fruits of his work are now benefiting education around the world, especially in the fields of medical imaging, medical physics, and engineering.

Dr. Sprawls' greatest career contributions have been in medical imaging and medical physics education, not only at the university level in the U.S. but around the world. Dr. Sprawls is recognized as an international leader in the process of developing shared and open web-based resources to improve education in all countries. He is now working with institutions and organizations around the world in the process of re-engineering the educational process.

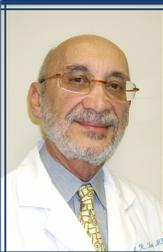
The Emory Community



Come one, come all! Over the next several weeks, John Fox, president and CEO, will host a series of forums designed just for employees. The forums will review EHC accomplishments and 2007 initiatives, and give you a chance to ask questions.

For a complete list of the times and locations visit:
<http://www.eushc.org/events/ceoforumschedule.html>

New Faces & Appointments



Dr. Michael Terk
MSK Division Head

Dr. Terk comes to us from Cedars-Sinai in Los Angeles, where he was Chief of Musculoskeletal Imaging. He has authored or co-authored more than 60 peer reviewed articles and three book chapters. His interests include sports medicine, bone marrow imaging and advanced methods of cartilage imaging.



Nommo Combs
Associate Director of Development

Nommo Combs is the newest addition to the TEC Senior Management Team. Previously Mrs. Combs held the position of Manager of the Executive Health Degree in Healthcare Administration from the University of Texas. Mrs. Combs will be reaching out and working with many other departments to improve breast healthcare delivery.



Dr. Kathleen Gundry
Director of Breast Imaging

Dr. Gundry serves as the newly appointed Director of Breast Imaging at Grady Hospital. She has been practicing in the Emory Healthcare system since 2001. She began her career after graduating from the Medical School of the University of Arizona. Currently, she continues her research in the area of Breast Imaging.



Dr. Greta Sybers
Staff Radiologist

Dr. Sybers is a graduate of Emory University, and has been on practicing here since 2001. Recently she has become a staff radiologist at the VA Medical Center. In 2003, she played an instrumental part in completing the Robert G. Sybers Library at Grady, in memory of her father.



Dr. Srini Tridandapani
Fellow

Dr. Tridandapani is new to the Division of Cardiothoracic Imaging. He attended medical school at the University of Michigan, 2001 and his residency there. He has just completed a fellowship in Cardiothoracic Imaging at the University of Michigan. His research interests are cardiac imaging, specifically timing and gating issues in cardiac CT.



Dr. Kendra M. Franklin
Staff Physician

Dr. Franklin joined Emory after completing her residency and fellowship at the Duke University Medical Center. Through her residency she gained experience in Diagnostic Radiology and moved onto Abdominal Imaging during her fellowship. She is currently practicing at the VA Medical Center.



Dr. John Carew
Assistant Professor of Biostatistics and Radiology

Dr. Carew joined the Radiology Department in mid-January of 2007. He received his Ph.D. at the University of Wisconsin-Madison. His research focuses on statistical methods for MRI, particularly diffusion tensor imaging and arterial blood flow and shear.



Dr. Brannon Hatfield
Medical Director of Radiology at Emory Johns Creek Hospital

Dr. Hatfield has been selected as the Medical Director of Radiology for Emory Johns Creek Hospital. He completed his medical education here at Emory and has been practicing Emory Crawford Long for the past six-years.



Dr. Diego Martin
MRI Safety Officer
Director of Body MRI & Professor of Radiology

Dr. Martin was recently appointed as the MRI Safety Officer. He is a graduate of the University of Toronto and has been practicing at Emory since January of 2004. He is currently researching Tumor and Tissue Disease Analysis Using Magnetic Resonance Structural, Molecular and Functional Imaging.



Dr. Mark Goodman
Director of the SOM PET Core
Director of Radiopharmaceutical Discovery Lab
Professor of Radiology, Psychiatry and Hematology & Oncology at Emory Univ. SOM

Dr. Goodman came to Emory 1993 and was recently appointed as the Director of the SOM PET Core. He obtained his Ph.D. from the University of Alabama. His research interests encompass PET and SPECT radiotracer development of oncology, brain and heart agents.



Mo Salama
Assistant Director of Imaging Informatics

Mr. Salama joined Emory in December 2006. He holds a Masters in Computer Science from Towson University. Mr. Salama's focus areas will include the upcoming RIS and PACS implementations among other IT related efforts throughout the radiology department.

Look for a new edition of the
Radiology Newsletter
the first full week of every month.