

June, 2011

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Global Health and Radiology: Ethiopian Experience

Historically, the role of diagnostic imaging in global health has been under-represented, likely due to the perception that radiology volunteer work requires expensive

The radiologists were welcoming and knowledgeable. The residents are sharp and thirsty for knowledge and experience. They participated in their daily read-outs of plain film, fluoroscopy, IVP, ultrasound, and CT. There are three MRI machines in the entire country, all at private imaging centers, and some patients are referred to AAU with their MRI for interpretation. The diversity of pathologies that we observed was astounding. Because patients have limited access to health care, many diseases are imaged in advanced stages. The prevalence of aggressive cervical cancer is especially high. Among infectious diseases, HIV, tuberculosis, schistosomiasis, malaria and echinococcus are commonly seen.

imaging equipment not available in developing countries. Of the myriad of international health care efforts, very few involve radiologists or radiology technologists. As the gap between technology and production costs closes, the role of radiology in global health work has grown.

Our department's Adopt-a-Resident grant gave Dr. Tahvildari the opportunity to explore his own interest in global health. Because this is new territory, he had to build it from the ground up. With Dr. Pat Hudgins serving as his project mentor, they spent 2009 researching potential locations in the developing world.

Their best guidance came from Emory clinicians already established in global health work. Through previously existing connections between Emory and Addis Ababa University (AAU), they began e-mail dialogue in early 2010 with the Chair of Radiology at AAU, Dr. Asfaw Atanafu.

After a year of preparation, Drs. Hudgins and Tahvildari traveled to Ethiopia. Dr. Tahvildari spent a month and Dr. Hudgins spent 10 days at Black Lion Hospital, the teaching hospital of AAU. It was an incredible experience.

To give some context, Ethiopia is a country of 85 million people; 87% of the population lives in rural areas. Ethiopia is one of the world's poorest nations, with an annual per capital income of \$100. There are approximately 125 radiologists in the country (1:680,000 ratio). AAU has the sole radiology residency, staffed by 9 attendings and 30 residents, in a 3-year program.

Having learned much from them, Drs. Tahvildari and Hudgins sought to return the favor. Dr. Tahvildari gave multi-subspecialty case conferences and Dr. Hudgins provided formal didactics, all of which were enthusiastically received.

Drs. Tahvildari and Hudgins were fortunate to have the company of an Emory Internal Medicine team concurrently in Addis. Together, they rounded on clinical services in the Emergency Room and in the intensive care unit, which greatly complemented their time in the reading room. As a group, they toured several historical sites around the country, a truly beautiful place.

Before they left, Drs. Hudgins and Tahvildari discussed goals and outcomes for partnership sustainability. In Dr. Asfaw's words, "We are enthusiastic about the chance to develop subspecialization and fellowship training."

They met with the deans of postgraduate and undergraduate training, as one idea



In March, Drs. Hudgins and Tahvildari traveled to Ethiopia and spent time with the sole radiology residency training program in a country of 85 million people.

of particular interest to them is the incorporation of radiology into medical student education.

From the inception of this project, it has been their goal to create a partnership with our Ethiopian colleagues and even establish a yearly resident and faculty rotation. Their next step is to secure funding for future trips and to create a selection process for those interested. Video conferencing is another potential avenue of collaboration, one that is currently being used by the Infectious Diseases division at Emory. They also hope to explore the possibility of Ethiopian faculty to rotate to Emory.

Through the creation of this partnership, one that is unique in the field of radiology, they hope to encourage international volunteerism by radiologists in training and in practice and bridge the gap between radiology and medical humanitarianism.

If you are interested in future collaborations, please do not hesitate to contact either Dr. Hudgins or Dr. Tahvildari at phudgin@emory.edu and atahvii@emory.edu.

- Ali Tahvildari, MD,
Radiology Resident, R3 &
Patricia Hudgins, MD, FACR,
Professor of Radiology & Imaging Sciences

LETTER FROM THE CHAIR

Dear Colleagues,

Emory Radiology Goes to Washington. Reminiscent of the old Jimmy Stewart movie of a slightly different name, this seems to be our theme this Spring. As the American College of Radiology (ACR) 88th Annual Meeting and Chapter Leadership Conference (AMCLC) took place in mid-May, we were well represented. The AMCLC indeed is an increasingly important venue for shaping the future of our field in a changing health care delivery system.

The ACR's Resident and Fellow Section, larger and stronger than ever, was attended by a record five of our diagnostic radiology residents (whose travel was in part supported by the generosity of the Georgia Radiological Society). Senior resident John Chenevey, whose Adopt-a-Resident project has focused on Health Care Policy and Leadership, took the lead in orienting newcomers to

the complexities of the ACR governance and rule-making procedures.

Mimi Newell and Fred Murphy participated in the meeting as Councilors representing Georgia. Curtis Lewis represented the Society of Interventional Radiology.

There were several high moments of the week. The ACR Fellow Ceremony is always appropriately filled with Pomp and Circumstance. After all, only about 10% of all radiologists attain the prestigious designation of "ACR Fellow" during the course of their careers. This year, two very deserving Emory faculty, Naomi Alazraki and James Provenzale, received this distinction. A second high octane moment was the highly contested election of Kimberly Applegate as Vice Speaker of the ACR Council, a very active

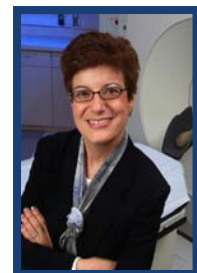
and prestigious leadership position within the College. I look forward to seeing Dr. Applegate joining the meetings of the ACR Board of Chancellors, in which I represent the Commission on Neuroradiology.

There was plenty of sobering news as well: continuing cuts to reimbursement, lack of sustained attention to radiologists' pleas for strengthened anti self-referral regulation, a shrinking NIH budget, and uncertainties over imaging's role in meaningful use standards of the electronic health record. Armed with our concerns, we headed to Capitol Hill to share our views with congressional representatives and senators, or in most cases, their capable staff. (A perpetually striking aspect of these visits is the youth of the staffers who essentially run congressional offices.)

As the ACR was winding down, activities of the Academy of Radiology Research were gearing up with more Capitol Hill visits and meetings with leaders of the NIH institutes that have substantial imaging research portfolios. A poster highlighting the translational research of the faculty of Emory's Department of Radiology and Imaging Sciences was displayed in the halls of Congress during an event in which 180 Congressional staff and patient advocacy groups participated. Thanks to all who contributed to enhancing the profile of Radiology and Emory in our nation's capital.

Best to all,

Carolyn C. Meltzer, MD, FACR
Chair of Radiology and Imaging Sciences



MESSAGE FROM THE VICE CHAIR FOR RESEARCH

The Need for Innovation

I wrote about the pace of innovation in April's newsletter. This month I'm writing about the need for innovation. Here's an interesting story of innovation: In 1995 searching the web was difficult. The Google founders saw an opportunity and had the idea of "web crawling" 24 hours per day and storing keywords in a database to permit rapid indexing of sites around the world. The largest hard disk available was 4 gigabytes. They soon realized this wasn't big enough for their purposes so they connected 10 together to make a huge (for its time) 40 GB hard drive. They needed a low cost cabinet after spending their money on disk drives, so they built one out of LEGOs. Google is now the most widely used web search engine in the world. They generated \$29 billion in revenue last year and are growing at a rate of 20%/year.

An example of a company that failed to adapt is Blockbuster. For the better part of two decades they were the world's biggest movie-rental company. Their early history is filled with innovative thinking. In 1987 they won a court case against

Nintendo which allowed them to start renting videogames. In 1994 they were sold to Viacom for \$8.4 billion. However, they failed to adapt their business to the on-line downloading technology of Netflix and other competitors. In September of last year they filed for bankruptcy and were sold at auction to Dish Network for \$320 million.

I suggest that the field of Radiology, and medicine in general, is at a critical point. Traditional ways of doing business are being eclipsed by newer technology. The model of spending 12 plus years to become an expert in a sub-specialty of Radiology is being challenged by the easy access to databases and the increasing ease and sophistication of searching for information. On top of this, the economic climate is changing for the whole country. The welfare of the nation, as well as the welfare of the patient, is constraining healthcare policies and decisions – a thought unheard of several years ago. It goes without saying that the need

for healthcare will grow. Who will be the Netflix of medicine and be at the top of the field in 10 years? What will that entity look like?

We can be the model. We are ideally positioned to explore the application of the newest technologies to our discipline. A research strategic plan is being developed with these thoughts in mind. One of our aims is to explore ways to measure and improve the effectiveness and economic impact of our practice (health services research). What we really need is people who can figure out ways around tough problems; people who can find a way to solve a problem within a tight budget; people who are willing to use LEGOs to build a solution to improving our healthcare.



The only thing I'm sure of is that our discipline will look very different in 15 years. Let's lead the way!

- John Votaw, PhD,
Vice Chair for Research

AWARDS & RECOGNITION



Kimberly Applegate, MD, MS

Professor of Radiology & Imaging Sciences
Vice Chair for Quality and Safety

Society for Pediatric Radiology Presidential Recognition Award

Dr. Applegate was recently honored with *The Society for Pediatric Radiology Presidential Recognition Award* at their London meeting. The Presidential Recognition Awards are given to those members or other individuals who have demonstrated ambition and dedication to impacting the vision and implementation of goals to better serve the members of the society. The Society of Pediatric Radiology strives to provide the highest quality of pediatric health care through imaging technology. (<http://www.pedrad.org/displaycommon.cfm?an=1&subarticlenbr=164>)

Elected Vice Speaker, American College of Radiology (ACR)

Dr. Applegate is the first woman elected as Vice Speaker, 20 years after Kay Vydareny was appointed the only other woman Vice Speaker. When the American College of Radiology (ACR) Council convenes annually, their primary purpose is to establish or update ACR policies. The Council elects a speaker and vice speaker to serve two-year terms. The responsibilities of these positions are to assist in organizing the annual meeting and manage various activities during the year. This role also assists by working closely with the Council Steering Committee (CSC). (www.acr.org).

Scott Bartley, MD

Assistant Professor of Radiology & Imaging Sciences

American Medical Association (AMA) Current Procedural Terminology (CPT) Advisory Committee



The AMA Board of Trustees appointed Dr. Bartley to the AMA CPT Advisory Committee to represent the American College of Nuclear Medicine as their primary Advisor. His term is effective through June 2013. The "CPT is maintained by the CPT Editorial Panel, which meets three times a year to discuss issues associated with new and emerging technologies as well as difficulties encountered with procedures and services and their relation to CPT codes." (<http://www.ama-assn.org/ama/pub/physician-resources/solutions-managing-your-practice/coding-billing-insurance/cpt/about-cpt.page?>)



Michael Larche

MRI Research Technologist III - CSI

Bachelor's of Science, Magna Cum Laude from the Florida Hospital College of Health Sciences

Michael Larche, MRI Research Technologist III in the Center for Systems Imaging (CSI), graduated Magna Cum Laude from the Florida Hospital College of Health Sciences in Orlando in April. He received a Bachelor's of Science in Radiologic Sciences. The faculty and staff at the CSI are very proud of his accomplishments.

Fellow of The American College of Radiology



Naomi Alazraki, MD

Professor of Radiology & Imaging Sciences



James Provenzale, MD

Professor of Radiology & Imaging Sciences

Drs. Alazraki and Provenzale have been selected as Fellows of the American College of Radiology (ACR). Approximately 10% of all ACR members achieve this distinction. We congratulate them for receiving this honor at the ACR's annual meeting in Washington D.C. in May.



Valeria Moncayo, MD

Nuclear Medicine Resident - PGY2

American Roentgen Ray Society (ARRS) Certificate of Merit

Dr. Moncayo was chosen as a recipient of the ARRS Certificate of Merit for her educational exhibit "Whole body sodium iodide-131 (Na I-131): spectrum of usual, unusual and unexpected scintigraphic uptake in diagnostic and post-ablation scans. Utility of thyroglobulin, histopathology and correlative radiologic imaging" (E530). Other authors include Drs. Keith Herr, Blazej Zybtek, Raghu Halkar and Bruce Barron. She wants to extend a special thanks to Drs. Halkar and Barron for their support, ideas and cases.

Michael Lubarsky, MD

Radiology Resident - 3rd Year

2010 Seminars of Interventional Radiology Journal most cited article

Dr. Lubarsky's article, "Embolization Agents—Which One Should Be Used When? Part 2: Small-Vessel Embolization" was the most cited article of the *Seminars of Interventional Radiology Journal* in 2010. The article was requested directly from the publisher (Thieme website) 595 times. The #2 request was in the 300s. Dr. Lubarsky said he "certainly did not expect that from a review article" but is proud of this accomplishment especially since he was listed as first author. Here is a link to the article: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3036509/>.



SENIOR RADIOLOGY RESIDENTS

The following residents will be completing their residency program in June and either continuing their training in a fellowship program or beginning practice. This has been an excellent group of residents and we wish them well in their new endeavors. We are fortunate that many of them will remain in the department for at least another year.

Megan Bell, MD
Continuing at Mayo Clinic
in a MR Fellowship

Jeremy Hill, MD
Continuing at a Private
Practice

Hamilton Reavey, MD
Continuing at Egleston
in a Pediatric Fellowship

Keith Tomich, MD
Continuing at Emory
in Abdominal Imaging

Marianne Mullin Ballisty, MD
Continuing at Egleston
in a Pediatric Fellowship

Jay Patel, MD
Continuing at Beth Israel
Deaconess Medical Center
(BIDMC) in Musculoskeletal

Edward Richer, MD
Continuing at Egleston
in a Pediatric Fellowship

Nuclear Medicine Residents

Fidias DeLeon, MD
Continuing at a Private Practice
in Miami Florida

Michael Collins, MD
Continuing at Emory
in Musculoskeletal

Nimesh Patel, MD
Continuing at Emory
in Abdominal Imaging

Eva Riker, MD
Continuing at Mayo Clinic
in Women's Imaging

Robert Lucaj, MD
Completed his Residency

Tarek Hanna, MD
Continuing at Emory
in Musculoskeletal

Ryan Polselli, MD
Continuing at Emory
in Breast Imaging

Narayan Sundaram, MD, MBA
Continuing at University of
Chicago in a Musculoskeletal
Fellowship

Ricardo Sein Najera, MD
Continuing in Puerto Rico to
work for a Private Practice

RADIOLOGY RETURNS

2011 ARRS Annual Meeting Resident Perspective

Native Chicagoans were still sporting winter coats, mittens, and the occasional fur hat in early May when the American Roentgen Ray Society (ARRS) arrived for its 2011 Annual Meeting, the optimistic slogan for which was "Springtime Is the Best Time." Despite the big chill, Emory maintained an enthusiastic and prominent presence, with a solid contingent of Radiology and Imaging Sciences faculty, residents, and medical students filling diverse roles throughout the six-day program.

Among those in Chicago were Deborah Baumgarten, MD, MPH, who directed the always popular ARRS Review Course for the second year, and Srini Tridandapani, MD, the 2009 ARRS/Elio Bracco Scholar, who presented a final report from his two-year course of study funded in part by Emory. Mark Mullins, MD, PhD, spoke to radiology residents in the Introduction to Academic Radiology (IAR) program, again co-directed by James Provenzale, MD, and sponsored by ARRS, RSNA, and AUR. Several other faculty members taught review courses

or presented, and residents including Bryan Yi, MD, MPH, authored abstracts featured in the Scientific Exhibit.

I was privileged to represent Emory as a participant in this year's IAR, which brought in some of the most dynamic leaders in academic radiology to share their hard-earned wisdom with the aim of encouraging residents like myself to pursue careers in academia. Meeting these accomplished radiologists as well as fellow second-year residents from around the country proved energizing – and if that's what was intended by "Springtime Is the Best Time," I'm a believer. The experience reinforced how valuable it is, in this era of electronic überconnectedness, to make time for face time (the real kind, not the iPhone/iPad variety) at national meetings like the ARRS. Hope to see you next year in Vancouver!



- Lilli Ivansco, MD, MPH,
Radiology Resident, PGY-3

NEW GRANTS

Spectral Reconstruction: A New Approach to Tomographic Breast Imaging

Principal Investigator:

Ioannis Sechopoulos, PhD

Funding Organization: Emory URC/ACTSI Pilot Grant

Significance: The spectral reconstruction algorithm that will be developed in this project will result in a substantial improvement in tomosynthesis image quality, further improving the sensitivity and specificity of this technology, resulting in a decrease in breast cancer mortality and unnecessary recalls and biopsies on healthy women. In

addition, completion of this project will allow for comprehensive clinical testing by performing a patient imaging trial, further development of the reconstruction algorithm for use in contrast-enhanced studies, and adaptation of the reconstruction algorithm for use in dedicated breast CT, another cutting-edge breast cancer imaging technology.

SENIOR RADIOLOGY FELLOWS

The following fellows will be completing their program in June. We have included their future plans and wish them great success in their Radiology careers.

Swapanil Bagade, MD

Entering a Fellowship in Pediatric Radiology at Mallinckrodt Institute of Radiology, Washington University

Affaan Bangash, DO

Entering a Private Practice – Jupiter, Florida

Bela Bhatia, MD

Joining South Atlanta Radiology Associates

Robert Burgess, MD

Completed his Fellowship and will continue his career in the field of radiology

James Costello, MD, PhD

Completed his Fellowship and will continue his career in the field of radiology

Wael Darwish, MD

Completed his Fellowship and will continue his career in the field of radiology

Abhijit Dattir, MD

Continuing Emory University – Atlanta, GA
Neuroradiology Fellowship

Erik Dowden, MD

Joining Radiology Associates of Louisville, covering the Jewish and Saints Mary and Elizabeth Hospital system

Miguel Fernandez, MD

Joining a Private Practice group in Macon, GA, covering the Medical Center of Central Georgia and Coliseum Hospitals

Kevin Frame, MD

Completed his Fellowship and will continue his career in the field of radiology

Christopher Friend, MD

Completed his Fellowship and will continue his career in the field of radiology

Paul Harkey, MD

Joining Emory Johns Creek's Community Radiology Faculty

Richard Herring, MD

Joining Gaston Memorial Hospital – Charlotte, North Carolina

Jessica Hoots, MD

Continuing a second-year Neuroradiology Fellowship at Georgetown University

Mia Jackson, MD

Joining SDI Radiology – Tampa, FL
Emphasis on Breast Imaging

Arin Katzer, DO

Entering a Private Practice – Topeka, Kansas
Specializing in Radiology & Nuclear Medicine

Cameron Kersey, MD

Practicing at Radiology Associates of Columbus, P.C.

Sung Bae Lee, MD

Practicing Neuro Interventional Radiology at Queens Medical Center – Honolulu, HI

Paolo Lim, MD

Joining Pine Bluff Radiologists Ltd. – Pine Bluff, AK

Gamaliel Lorenzo, MD

Continuing a second-year Neuroradiology Fellowship at Emory University

Zahir Momin, MD

Practicing at Quantum Radiology – Atlanta, GA

Stephanie Morgan, MD

Joining Mecklenburg Radiology Associates – Charlotte, North Carolina

Lisa Paulis, MD

Practicing at Elizabeth, Wende Breast Clinic – Rochester, New York

Aruna Polsani, MD

Continuing at Emory University with a Nuclear Medicine Fellowship

Hasmukh Prajapati, MD

Continuing Emory University – Atlanta, GA
Neuroradiology Fellowship

Trevor Rose, MD, MPH

Joining the Moffitt Cancer Centre – Tampa, FL

Jai Shah, MD

Joining a group covering Advocate Condell Hospital – Libertyville, Chicago

William Slater, MD

Joining Advanced Radiology Services (ARS) – Grand Rapids, MI
Specializing in Interventional Radiology

Brian Suddarth, MD

Joining Medical College of Virginia – Richmond, Virginia
Specializing in Academics

Samuel Tsappidi, MD

Practicing Neurosurgery at Wayne State University

Zaixiang Zhang, MD

Joining Middlesex Hospital – Middletown, CT

CHECK IT OUT



Brandon D, Alazraki A, Halkar RK, Alazraki NP. The role of single-photon emission computed tomography and SPECT/computed tomography in oncologic imaging. *Semin Oncol.* 2011 Feb;38(1):87-108.

Schuster DM, Savir-Baruch B, Nieh PT, Master VA, Halkar RK, Rossi PJ, Lewis MM, Nye JA, Yu W, DuBois Bowman F, Goodman MM. Detection of Recurrent Prostate Carcinoma with anti-1-Amino-3-18F-Fluorocyclobutane-1-Carboxylic Acid PET/CT and 111In-Capromab Pendetide SPECT/CT. *Radiology.* June 2011;259:852-861.

Meltzer CC, Shim H. (Guest Editors) *Molecular and Functional Imaging.* *Semin Oncol.* 2011 Feb;38(1):1-2.

IN THE KNOW

Quality Corner

Ultrasound Quality and Safety Committee

“At Emory Midtown we do it this way. At the Emory main campus we do it that way. At WCI we do it our way.” Not too long ago, the Ultrasound departments of Emory Healthcare worked completely independent of one another. With different protocols, policies, and billing practices, it wasn't uncommon for patients to have a significantly different experience depending on which location they had their procedure done. Sonographers were using outdated, and in some cases, non-existent scanning protocols, which had not been reviewed or updated in several years, and varied among Emory campuses.

The Ultrasound Quality and Safety Committee is a collaborative effort between Sonographers and Radiologists to ensure patients receive standardized care. It also ensures that they have access to uniform and up to date policies and protocols. Since the committee began meeting in October of 2009, we have accomplished the following:

- We have written standardized imaging protocols for all

campuses (EUHM, EUH, TEC, Grady) that are available for all (Radiologists/Sonographers) to see on the intradepartmental website. Imaging protocols are based on ACR recommendations and billing requirements.

- We have created standardized dictation templates incorporating ACR recommendations and billing requirements.
- We have begun monthly audits of images and dictations to make sure Sonographers and Radiologists are following the protocols and using the appropriate dictation templates, ensuring all required elements of the exam for accurate billing.
- We are working with billing to reduce claim denial rates.
- As a team, we have written new imaging protocols and are working with IS to generate appropriate RadNet billing codes, as new studies are requested (eg. venous insufficiency studies)

In addition, the Ultrasound Quality and Safety Committee participated in the 2010 Emory Healthcare Quality Conference, submitting the following posters:

- Ultrasound Reporting of Lower Extremity Veins for DVT: A QI project to standardize language
- Ultrasound of Lower Extremity Veins for DVT: A QI project to standardize vein labeling

Future goals of the committee include following the standards set by Winship Cancer Institute and achieving ACR accreditation at all locations, addressing ongoing and future quality concerns in the ultrasound department, and evaluating new technologies to enhance processes.

We believe that our US quality and Safety Committee serves as a model for collaboration across disciplines within our department that puts our patients first and has improved out patient care, standardization, and reimbursement. We all win!

- Susan Reeder, RT, RDMS
Sonographer Emory Midtown

HR Tip

Important Changes to the Emory Provider Network

As announced in last year's benefits enrollment information, Eastside Medical Center is no longer affiliated with Emory Healthcare, and will be removed from the Emory Provider Network effective June 1, 2011. If you are undergoing a course of treatment at Eastside Medical Center that will continue after June 1, 2011, contact Aetna at (800) 847-9026 for information about a "transition of care" plan. Eastside Medical Center will continue to participate in the Aetna National Network.

Also, since Emory Johns Creek Hospital is now owned by Emory Healthcare, many community physicians affiliated

with Emory Johns Creek are now participating in the Emory Provider Network. Check Aetna's DocFind (<http://www.aetna.com/docfind/custom/emory/>) to locate providers in the Emory Provider Network.

Questions? Please call the benefits department for more information at 404-727-7613.

You can also visit the *News You Can Use* website at: http://www.hr.emory.edu/NewsYouCanUse/NYCU_05162011-planchanges.html

GETTING TO KNOW YOU

Radiopharmaceutical Discovery Research Laboratory

The goal of the Radiopharmaceutical Discovery Lab (RDL), led by Dr. Mark M. Goodman, is to develop radiopharmaceuticals for the study and management of treatment of cancer, cardiovascular disease, cocaine addiction, mood disorders, dementia and psychomotor disorders. The faculty and staff of the RDL form a multidisciplinary team comprised of chemists, radiopharmacists and technologists. The RDL has nine PhD organic chemists who have



The RDL collaborates with nine departments within the Emory School of Medicine, two Georgia Universities, six additional Universities and Institutes in the US and Europe, and three corporations.

mastered radiochemistry labeling methodologies of radiopharmaceuticals since joining RDL. The RDL faculty consists of five assistant professors, Ronald J. Voll, Jeffrey Stehouwer, Fanxing Zeng, Weiping Yu and Nachwa Jarkas, and an instructor, Jiyoung Mun. A goal of the RDL is training of the next generation of radiopharmaceutical scientists. The lab currently supports three post doctoral fellows: Wone Seo, Aaron Smith and Alessandra Mancini. Complementing the faculty is a licensed radiopharmacy managed by Ronald Crowe, BNCP, Karen Dolph, NP and Michael Shane Waldrep, BS. Mr. Crowe's team is responsible for the production of radiopharmaceuticals for human use adhering to The United States Pharmacopeia (USP) guidelines. Mell Camp, CNMT, with expertise in metabolite analysis of human tissues, and Larry William, BA, who oversees the small animal imaging, contribute to the bench-to-bedside translation of radiopharmaceuticals developed in RDL.

The RDDDL has multiple imaging projects involving novel [¹⁸F] radiolabeled amino acid technology, with the goal of translation to patients in the clinic. A recent and exciting success story involves the translation of [¹⁸F]FACBC from the lab into a diagnostic tool for the management and treatment of brain and prostate cancer. Dr. Goodman and colleagues were awarded an National Cancer Institute (NCI) Development of Clinical Imaging Drugs & Enhancers (DCIDE) application for toxicity testing of [¹⁸F]FACBC, followed by an Investigational New Drug (IND). In 2007, they received a NIH R01 CA121320-01 "Leucine Type Amino Acid Transport In Gliomas" (PI-Goodman) to study [¹⁸F]FACBC for imaging primary and recurrent brain cancer. In 2007, the RDDDL reported the first use of a fluorine-18 labeled synthetic amino alicyclic acid, [¹⁸F]FACBC, for imaging prostate cancer in patients. [¹⁸F]FACBC has been shown to detect cancerous lesions within the prostate and loco-regional extra-prostate lesions in lymph nodes and bone. Based on this success, Emory has received NIH awards to investigate the detection of prostate cancer: A R01 grant (CA 129356 "[¹⁸F]FACBC PET-CT for the Detection and Staging of Recurrent Prostate Carcinoma", PI-Schuster) and a project (PI-Schuster) in the NIH supported P50 Emory Molecular & Translational Imaging Center (EMTIC) Program grant (PIs-Goodman, Meltzer, Hu). We believe that the translation of [¹⁸F]FACBC to the clinic paves the way for related imaging tools which will form a critical part of cancer diagnosis and treatment in the future.

The successful translation of radiopharmaceuticals by the RDDDL hasn't been limited to cancer. The RDDDL developed and translated [¹²³I]BMIPP, [¹⁸F]FACPC, [¹⁸F]FECNT, [¹²³I]MMG-142/IPT, [¹¹C]pZIENT [¹¹C]HOMADAM and [¹²³I]mZIENT from the bench to bedside for heart disorders, cancer, Parkinson's Disease, cocaine addiction and mood disorders, respectively.

- Mark M. Goodman, PhD,
Professor of Radiology & Imaging Sciences

Radiology Calendar

Week of June 6, 2011

Wed., June 8 –
NO Grand Rounds -
Summer Break

Thurs., June 9 –
Research In Progress Series (RIPS) -
Alessandra Mancini
*Curcumin analog development for
pharmacokinetic measurements*

Week of June 13, 2011

Thurs., June 16 –
RIPS - Diego Martin, MD, PhD
MRI Research

Week of June 20, 2011

Thurs., June 23 –
RIPS - Nachwa Jarkas, PhD
*Developing (a) Potent Fluorine-18 HOMADAM
Derivative(s) to Image the Human Brain SERT:
How Far Are We from our Destination?*

Week of June 27, 2011

Thurs., June 30 –
RIPS - Weiping Yu, PhD
*Preparation and Modification of Amino
Acids for Cross-Linkage with Polymeric
Coating of Nanoparticles*

**Grand Rounds and RIPS
are on Summer Break**

**For times & locations visit the website:
www.radiology.emory.edu**

GET INVOLVED

Medical Imaging Program Graduation

On May 9, 2011, 29 Emory Graduates celebrated as they received their Bachelor's Degree in Medical Imaging. Through the Emory Medical Imaging Program, aspiring Radiology Technologists (RT), along with practicing RTs, are given the opportunity to specialize their skills as an RT in the areas of CT, MR, education or administration. This year, 21 graduates completed their program with a focus in MR, five in CT, one in education and two in administration.



The Medical Imaging Program Class of 2011 plans to use their new-found knowledge as they begin their careers in the field of medicine.

Student Awards -

Valedictorian:	Lamiis Khalifa
Outstanding Clinical Student:	Mary King Tatum
Colleague Award:	Ahmed Fadl
Most Improved Clinical Student:	Lauren Starks
JRCERT Student Award of Excellence:	Nikki Butler

Clinical Awards -

Clinical Site of the Year:	The Emory Clinic - Winship Cancer Institute
Outstanding Technologist Educator:	Eric Edmondson - The Emory Clinic – Winship Cancer Institute -

The faculty members of the Medical Imaging Program wish the Class of 2011 success and happiness as they move forward in their lives and careers. Congratulations!

Reimbursement Services Team Annual Luncheon

On Friday, May 20th, the Reimbursement team hosted their Annual Employee Luncheon at Decatur Plaza. New this year, they launched an Atlanta Heart Walk fundraising initiative where suggested donations for a plate of food were \$5-\$6 and they raised \$844. The range of delicious food included hotdogs, hamburgers, fresh salad, corn on the cob, potato salad and even collard greens that were specially prepared by our own Administrator, Habib Tannir. The next scheduled Heart Walk fundraising event is an ultimate salad bar open to all Decatur Plaza employees. The Decatur Plaza Team surpassed their 2010 goal of \$5,000 and raised \$5,466. This year's team goal is set at \$10,000.



Marcus Foster has been appointed as the 2011 Radiology & Imaging Sciences Department Heart Walk Division Leader - Michael Armstrong did a fantastic job the last two years. There are many ways you can help the Radiology & Imaging Sciences team achieve their goals. If you would like to be an active team member, contact Tina Dawson at 404-778-1376. You can also go online and make an electronic donation at: <http://metroatlantaheartwalk.kintera.org/faf/search/searchTeamPart.asp?ievent=456737&lis=1&kntae456737=E363893B2F6A47C7B2A1C0FCF75A2288&supId=0&team=4179486&cj=Y>

metroatlantaheartwalk.kintera.org/faf/search/searchTeamPart.asp?ievent=456737&lis=1&kntae456737=E363893B2F6A47C7B2A1C0FCF75A2288&supId=0&team=4179486&cj=Y

- Alaina Shapiro, Communication Coordinator

NEW FACES & APPOINTMENTS



John Heard
Patient Services Coordinator II - WCI
John received his BA in Economics from Georgia State University. Prior to joining the Interventional Radiology Clinic team, he gained valuable experience from the Emory Heart & Vascular Center at Johns Creek. John's other professional experience includes being an Office Manager at Powers Ferry Psychological Associates for 4 1/2 years.



Jon Hayes, RT (MR)
MRI Technologist - TEC
Jon has 20 years experience as a technologist in the metro Atlanta area. He is a member of the ARRT and ASRT. He was Valedictorian of his graduating class at the Grady Memorial Hospital School of Radiologic Technology. He also attended West Georgia College to continue his education.

Look for a new issue of the Rad Report the first full week of July.