

USUHS Radiology Times

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Special points of interest:

- Radiology Newsletter goes to press!!
- Adjunct Faculty Kept aware of Department's goings-on.
- New collaborations develop
- Everybody rejoices!
- Mark Your calender for ABR Written Exams Sept. 12,13

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Tripler Develops Spectroscopic Exams

At Tripler Army Medical Center, ongoing research focuses on stroke prevention through MR angiography. LTC Arthur Kane has developed a 30 minute comprehensive high-resolution non-contrast scan which is technologist and patient friendly, and highly effective in evaluating all arteries above the aortic arch for aneurysms, narrowings, and anatomy. Along with LTC Greg Petermann, the TAMC Neuro-radiology section also routinely employs both single and multivoxel proton MR spectroscopy to more accurately characterize all lesion of the nervous system than is possible with MRI alone, thus saving some patients the trouble and risk of additional procededures. LTC Petermann has participated in several nationally and local IRB approved clinical trials using contrast-enhanced MR angiography of the neck, abdomen and lower extremities. LTC Kane and LTC Petermann use a tailored approach, beginning with non-contrast diagnostic high-quality MRA, which if necessary is then followed with contrast MRA for more difficult cases.

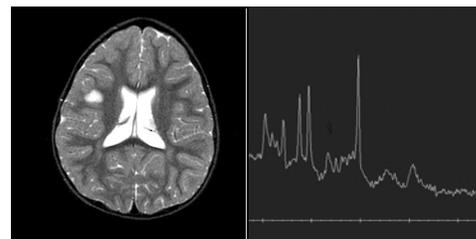


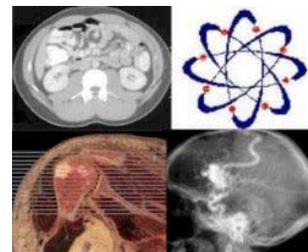
Image and Spectra from right parietal subcortical lesion

Chairman's Welcome

I want to welcome all of you to our first USU Military Radiology Newsletter. We hope to send these out periodically to all of our extended Military Radiology Family, deployed all over the world. These newsletters should serve not only for communication, but also as a source for information about collaboration. We want to invite all of you to contribute.

MedPix™ Now Offers Quizzes

MedPix, our shared Military Radiology Teaching File, is getting larger and better, and with new features. You can now use MedPix to create your own Conferences! MedPix Professor is built in, and allows you to create and edit conferences that you may present to your own staff and residents. Whenever you see a case that you like, click on the "professor" Icon, and that case is automatically added to your case list. These Conferences can be edited, you can add or drop cases, and change the order of presentation.



In mid August, we will release the MedPix Quizmaster. This is a database of multiple-choice questions. Like the MedPix Professor, the Quizmaster will allow you to create and edit questions, and link a group of questions together into a quiz. Online quizzes will be available for residents and students to take, and will provide on-line grading tools and user feedback. Watch for it in August.

<http://rad.usuhs.mil/medpix/radpix.html>

Cutting Edge Coronary Research continues with Radiology MRI Team

Since 1996, the MR research division under the leadership of Vincent B. Ho, MD, has initiated a variety of cardiovascular research initiatives. These projects have been performed in conjunction with medical staff from the National Capital Region, the National Institutes of Health, as well as certain civilian university healthcare centers. The group's research efforts have focused primarily in the development of new methods for coronary and peripheral MR angiography (MRA), as well as cardiac imaging in general. Peripheral MRA projects have investigated bolus kinetics, new contrast agents, new pulse sequence design, automated bolus chase MRA and segmented volume acquisition ("Shoot and Scoot"). Cardiac imaging projects has explored improvements to 2D spiral imaging, navigator gating, contrast-enhanced MRA, emphasizing real-time imaging, steady state free precession, and partial Fourier techniques. (Continued on Page 4)

Current Events and What's New

1. Congratulations to CDR Dave Schauer on the birth of Luke Alan Schauer, Born: 5 Jun 02, 1730, 8 lbs 13 oz, 21".
2. Dr. Donald Miller and LT Doug Fletcher recently served on the American Association of Physicists in Medicine Expert Panel to give lectures on patient radiation exposure during angiographic procedures.
3. The new year started up....good luck to all the students, residents and new staff!

Health Physics Training at USU

The graduate Health Physics program at the Uniformed Services University of the Health Sciences continues to grow. This is reflected in the arrival of three new students this Fall; 2 Air Force Health Physicists and one Public Health Service Officer have joined LT Tomon in the pursuit of Masters' degrees. The full time faculty is also growing with the addition of LtCol Kristin Swenson, LTC Mark Bower and LT Doug Fletcher to the program. LtCol Swenson previously served as the Air Force Specialty Leader to the Surgeon General for the Radiation Health Community. LTC Bower is a board certified Health Physicist with extensive radiation safety experience. LT Fletcher previously served as a diagnostic medical physicist at the National Naval Medical Center. As CDR Dave Schauer writes:

Our vision includes providing scientifically challenging and militarily relevant classroom and laboratory experiences that will lead to peer-reviewed publications of basic and applied research.

“These dedicated officers join us in carrying out our mission to educate and train competent Health Physicists to meet the needs of the Uniformed Services. Our vision includes providing scientifically challenging and militarily relevant classroom and laboratory experiences that will lead to peer-reviewed publications of basic and applied research. We are also committed to preparing our graduates to successfully complete the American Board of Health Physics certification exams. Our guiding principles are focused on graduating Military and Public Health Service Officers who are prepared to lead, think critically and dedicate themselves to maximizing the beneficial use of radiation while minimizing the risk to people and the environment.”

You are invited to learn more about this exciting program by visiting the USU's web site at (<http://hp.usuhs.mil/>) or by contacting CDR Schauer at dschauer@usuhs.mil or (301) 295-9806.

Way to Go!

Alan Epstein, M.D., Chief of Radiation Oncology Section, recently won the CALI Award for Patent & Trade Secret Law in the Fall of 2001. CALI Awards are given to the student who writes the best paper or exam in a class.



CDR Schauer was awarded the Defense Meritorious Service Medal for his efforts in establishing the Interdepartmental Health Physics Program and his extensive research involving personnel dosimetry.

Cutting edge coronary work (continued from page 2)

Select references for more information:

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