

Interlink

POINTS OF INTEREST:

- **TEN** RADIOLOGY RESIDENTS HAVE STARTED TRAINING AT THE UNIVERSITY HOSPITAL IN HAITI
- EDUCATIONAL MATERIALS AVAILABLE FOR DONATION

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ACRF RFS International Outreach Subcommittee Formed and Active



Under the leadership of Rebecca Gerber, M.D., the ACR Foundation International Outreach Subcommittee has become quite active over the past year. Their accomplishments have included:

- the establishment of an [international outreach blog](#);
- the establishment of a [web page](#);
- a [global checklist](#) of items for those considering traveling in a developing country;
- an approved JACR article on a 4th year elective and global health curriculum (to be published);
- programming featuring international outreach opportunities at RSNA and the ACR AMCLC;
- further promotion of the [ACRF Goldberg-Reeder Travel Grant program](#); and
- ongoing coordination and collaboration of international outreach efforts among organizations such as the ACR, RSNA, RAD-AID, Imaging the World and Radiating Hope.

2013-2014 Subcommittee members included:

Amana Aktar, MD, UPenn, PGY-5
 Christina Cinelli, MD, BWH, Johns Hopkins, PGY-6
 Mike Dominello, MD, Wayne State, PGY-5
 Rebecca Gerber, MD*, (Subcommittee Chair) BWH, UVA, PGY-6
 Benjamin Johnson, MD, Stanford, PGY-3
 Matt Lungren, MD, Cincinnati, Duke, PGY-7
 Adam Prater, MD, MPH, Emory, PGY-4
 Shreya Sood, MD, BWH, PGY-5
 Mary Wood, MD, EVMS, PGY-4

Any ACR Member-in-Training interested in joining the committee should contact Lauren Alfero at lalfero@acr.org.

ACR Holds 3rd Education Program in Haiti

The American College of Radiology Foundation held the third Radiology Education Days (RED) in Port-au-Prince, Haiti on March 24 and 25. A capacity crowd of 100 Haitian physicians and 40 radiographers attended roughly 20 didactic sessions, clinical case review sessions and hands-on ultrasound sessions. The courses focused on pediatric and musculoskeletal imaging.

On Monday, March 24, the faculty presented 8 didactic lectures on pediatric imaging, concluding with multiple pediatric radiology case discussions and the hands-on application of pediatric ultrasound on the kidney, gastrointestinal, liver, gallbladder, cranial/spine, appendix and pylorus.

On Tuesday, the faculty presented a total of 9 didactic lectures on musculoskeletal ultrasound followed by a competitive round of ultrasound clinical case review and five ultrasound stations focusing on musculoskeletal ultrasound including specific focus on shoulders, wrists, hands, ankles and feet.

The two-day sessions also included a separate track for radiographers focusing primarily on basic patient care and safety, radiation protection principles, occupational safety, radiographic pathology (including respiratory and skeletal), film processing, exposure factors and manipulation, pediatric radiographic considerations and developing



James P. Borgstede, M.D., FACR reviews case physician with physician using the ultrasound transducer.

exposure charts. The session concluded with an excellent questions and answers exchange.

Significant progress in Haiti is evident since the ACR Foundation initially sent a fact finding team to Haiti in 2011, roughly one year following the devastating earthquake. Not only has the public infrastructure improved dramatically, but new hospitals are being constructed or planned for construction in the next couple of years.

In 2011, 19 radiologists were serving a Haitian population of over 10 million. Today, we are pleased to report that 10 radiology residents are currently matriculating through their training at the University General Hospital. If these radiology residents successfully matriculate through the program and stay in Haiti, that will represent an over 50% increase in radiologists in the country. In addition, the College, while in Haiti, met with the leaders of the University General Hospital and signed a Memorandum of Understanding to assist these residents in their training as they prepare for a new hospital with greater diagnostic radiology capability. ACR representatives also met with representatives of the Medical School of Haiti to assist in the formal development of a four-year



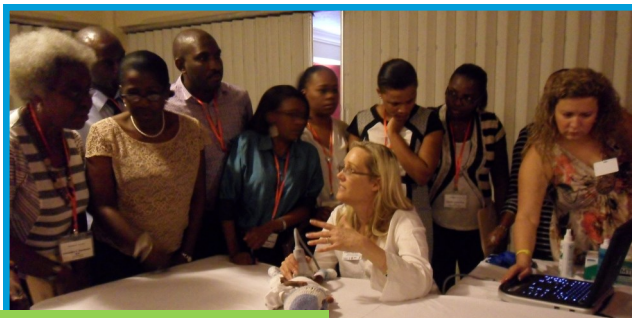
Paul H. Ellenbogen, M.D., FACR Chair, ACR Board of Chancellors opens meeting by reviewing the ACR Foundation efforts in Haiti.

radiographer program. All attendees received a jump drive of translated presentations as well as a Certificate of Completion for their participation in RED. Staff developed a [blog](#) during the trip for further details.

The delegation also used the opportunity to travel to Grace Children's Hospital to see new construction at that facility. The construction will supplement their administrative and training facilities providing greater short-term capacity for patient care. ACR delegation met with Dr. Josette Bijou and Billy Brandt, Chair, ICC Haiti to discuss developments for the newly planned ICC/Grace Children's Hospital which will be re-built in two phases. They also had the opportunity to look at the hybrid portable x-ray machine that was generously donated by Siemens to investigate its digital use in the near term.

The conference could not have succeeded without the coordinated efforts of representatives from multiple societies including: the Society for Pediatric Radiology, the World Federation of Pediatric Imaging, the American Society of Radiologic Technologists, the Society of Diagnostic Medical Sonography, the Society of Radiologists in Ultrasound, and ICC/Grace Children's Hospital (our hosts on the ground). Sonosite and GE also generously provided portable ultrasound loaner units for the program. This collaborative effort represented a positive model for assisting developing countries with education and training in radiology.

Dorothy Bulas, M.D., FACR, program co-chair provides a lecture on pediatric imaging during RED.



Kimberly E. Applegate, M.D., FACR, ACR Speaker (seated) discussing ultrasound on an infant.



Robert Harris, M.D., FACR, program co-chair illustrates the use of pediatric ultrasound for physicians participating in RED.



Tammy Stearns, MS, RT(R), RDMS, RVT holds a patient at RED.



Amy Hoffman, MBA, RT(R), (CT), RDMS, CRA provides a lecture to an engaged radiographer class as part of RED.

THE ACR FOUNDATION GREATLY APPRECIATES THE PARTICIPATION OF FACULTY, LEADERSHIP AND STAFF IN PREPARATION AND EXECUTION OF RADIOLOGY EDUCATION DAYS AS WELL AS OUR PARTNERS. — <http://radiologyinhaiti.blogspot.com>



Interview with Goldberg-Reeder Grant Recipient: Kara-Lee Pool, M.D.



When did you first hear about the Goldberg-Reeder Travel Grant Experience?

As a first year radiology resident, I would often navigate through the ACR website's resident/fellow section. There were many ACR grant/fellowships that interested me, however, given my passion for global health, I was drawn to the Goldberg-Reeder Travel Grant. Over the course of my residency, I have followed the recipients of the grant and found their projects to be fascinating. Around the end of my second year, I had a meeting with my program director proposing my research project and his reply to me was "if you receive the ACR Goldberg-Reeder Travel Grant, I will allow you to pursue your research in South Africa."

Had you ever been abroad to do medical outreach overseas? If so, when and what were you doing?

Before radiology residency, I was a resident in an internal medicine categorical program with the goal of becoming an infectious disease doctor. Much of my research was on tuberculosis and MRSA resistance patterns, often focusing on immigrant populations – this work was conducted at the Wilkinson Lab in London and the Kreisworth lab in New York. I volunteered at medical clinics and a hospital in Ecuador the summer after my first year of medical school. At the start of medical school, you can't really help much, but it sparked my interest to continue volunteering abroad.

At end of medical school, I volunteered at a hospital in Lesotho - a landlocked country in Southern Africa. While I was there, I produced a film called "[Mountains of Hope](#)". The film was designed to educate health-care professionals worldwide about the multifarious health care challenges faced by the Kingdom of Lesotho, namely the extremely high HIV/AIDS rate and the severe shortage of health care professionals. Most of the grants for this film were written and obtained the year leading up to my time in Lesotho.

How did you determine to go to South Africa?

That is easy! My family, both sides, have been in South Africa since the 1920's. My parents immigrated to the States in the late 70's. I grew up surrounded by South African immigrant doctors, so I guess I always felt a bit guilty that they all left. Although I am proud to be a US doctor and will pursue my career in America, there is always time to volunteer back "home". In the future, I hope to combine my interests in breast and women's imaging with my research endeavors in Africa.

What were the short and long-term goals for your project there?

Before answering this question, I have to list the people on my team, because without them, this project would not have been possible.

Brain Garra, MD - Associate Director-Clinical Division of Imaging and Applied Mathematics Office of Science and Engineering Laboratories CDRH, FDA and co-founder of Imaging the World

Savvas Andronikou, MD - Prof of Radiology at University of Witwatersrand

Ines Boechat, MD – Prof of Radiology at UCLA, President World Federation of Pediatric Imaging (WFPI)

Dorothy Bulas, MD – Prof of Radiology George Washington University

Sabine Belard, MD – Pediatrician at University Hospital Freiburg, Germany. PhD Candidate: University of Amsterdam

Tom Heller, MD - Klinikum Muenchen-Perlach, Germany
Amanda Dehaye – General Manager of WFPI

Heathar Zar, MD – Prof of Pediatrics at Red Cross Children's Hospital, Cape Town

While managing a project between several countries, you learn very fast that there is no "I" in team - something I hope younger residents will understand when they start their own projects. Collaboration is key to successful projects abroad, and in the States for that matter!

We (the team) developed a technical protocol for scanning the mediastinum in children with tuberculosis, looking for

mediastinal lymphadenopathy. In addition, we developed a “volume sweep imaging” protocol, which essentially allows ultrasound naïve volunteers to perform the mediastinal scan with limited training and using only visual anatomic landmarks as their guide. We have obtained all of the pilot data to date and are in the process of analyzing the sensitivity and specificity of the images. We will also be comparing the two techniques. If we prove that either scan has utility in diagnosing mediastinal lymphadenopathy, our team will eventually try to implement these techniques in remote clinics in South Africa that have a high prevalence of pediatric tuberculosis. Of note, the concept of “volume sweep imaging” was invented by the non-profit “Imaging the World”.

An additional goal during my trip to South Africa was obtaining footage for a short documentary film. This film will convey the perspectives of the care-takers who have to enroll their children into tuberculosis/HIV trials. I obtained a grant for this film from the Pfizer Foundation.

What kind of obstacles did you experience and were you able to overcome those obstacles?

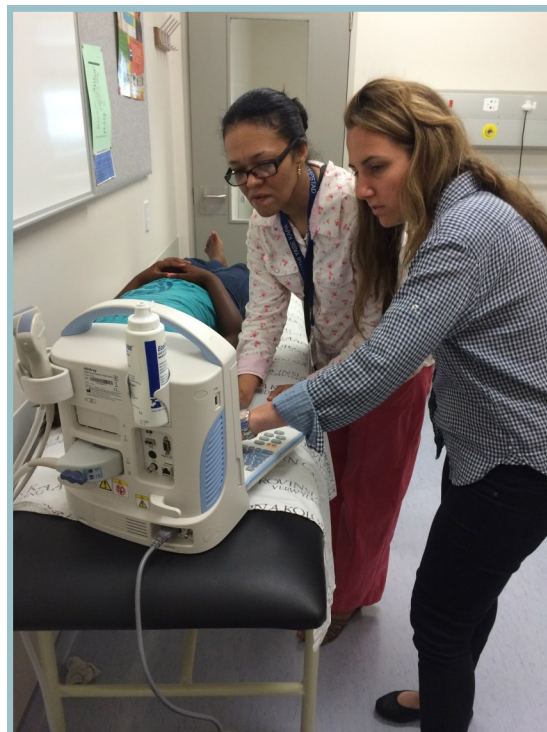
Collaboration between multiples universities and organizations that span over three countries is difficult, yet possible. Though it can be scary to collaborate with a university abroad, there are multiple people who are willing to assist, especially when it involves the developing world. One issue that I did not know about, that you might call an “obstacle”, is when a young investigator conducts a study abroad, they must obtain IRB approval from all universities involved.

What would you say to a radiology resident of fellow thinking about traveling abroad to provide international outreach overseas?

The key to outreach abroad in the beginning of your training or career is “thinking outside the box”. You might not be able to perform the procedure with the limited resources available, but if you “think outside the box”, you will be surprised how little you need to accomplish the task - a catheter can be made out of an infinite amount of materials! An ultrasound machine might be your new best friend - it might not be a fancy MRI or a 64-slice CT scanner, but it does the job. Your radiographs might not look as pristine as you are used to, but they tell the story.

Your clinical knowledge can be used in other ways, as well, like teaching! Sometimes the clinicians abroad have limited access to journals and textbooks and you become their portable textbook for the month!

The teaching goes both ways. You will learn your limits as a clinician, your assets as a radiologist, and you will be humbled by the patients and the health care workers abroad.



Learn More!

Each year the ACR Foundation Goldberg-Reeder Travel Grant awards travel grants to qualified residents seeking to spend at least one month assisting health care in a developing country. Since 2008 there have been 18 grant recipients who have traveled to countries like Tanzania, Cambodia, Kenya, Uganda, Bangladesh, and Nigeria. To learn more about their experiences and to apply please visit <http://bit.ly/ACRFGRG> or email Lauren at lalfero@acr.org.

*The deadline to apply is **JUNE 30**.*

News & Announcements

Featured Organization: **Medical Imaging Partnership (MIP)**

This quarter's featured organization is Medical Imaging Partnerships (MIP). MIP's mission is to provide access to equipment, expertise, training, and encouragement to local organizations in developing countries with special emphasis on Africa and Latin America. According to their website, they currently have ongoing projects in South Africa, Tanzania, Bosnia/Herzegovina, Mexico, Cambodia, Uganda and Haiti. MIP was founded by Vikram Dogra, M.D. Director, Division of Ultrasound and Associate Chair of Education and Research for the Department of Imaging Sciences at the University of Rochester Medical Center. For more information about Medical Imaging Partnerships, please visit their website at www.medicalimagingpartnership.org.



Portable Ultrasound Needed

Hôpital Saint Damien/NPFS, a pediatric hospital located in Port-au-Prince, Haiti is looking for a new or used (in good condition) portable ultrasound machine for its high-risk prenatal care clinic. The machine does not need to be new but should include appropriate transducers to do a broad range of scanning. For further information, please contact Dr. Marie Lina Excellent at ml.excellent@gmail.com.

International Volunteers Raise Your Hands!

If you are volunteering in Haiti or other parts of the developing world, we would like to hear from you. The ACR Foundation International Outreach Program seeks to find ways to facilitate volunteerism, donations and collaborative projects. In 2013, the ACR Foundation launched the [International Facility Profiles](#) to provide potential volunteers, donors and organizations with access to facilities in the developing world. If you have volunteered, we would like you to fill out a [Facility Needs Assessment Survey](#). The survey provides the basis for the information contained in the International Facility Profiles.

In addition, the ACR Foundation is interested in making sure volunteers are coordinating their efforts where possible. If you have been a long-term volunteer in a developing country, please contact Brad Short at bshort@acr.org or Lauren Alfero at lalfero@acr.org to ensure you are included in our network.

2014-2015 ACRF International Outreach Committee

Douglas L. Brown, M.D. - Chair

Teresita Angtuaco, M.D., FACR

Dorothy Bulas, M.D., FACR

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John P. Knoedler, Jr, M.D.

Tracy S. Sheretz, M.D.

Ryan H. Sydnor, M.D.

George A. Taylor, M.D., FACR

Need an announcement made?
Want to share your experience?

Let us know! Announcements are a great way to get the word out about your program or need for donations. We'd also love to hear about your experience volunteering and may share it in a future edition of *Interlink*. Email Lauren at lalfero@acr.org with your announcement or story.

Educational Materials Donations

The ACRF International Outreach Program recently received donations of educational materials from RSNA and AIRP to add to its inventory of materials available for donation. If you know of a facility in need of educational materials please fill out our [Materials Request Form](#).



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