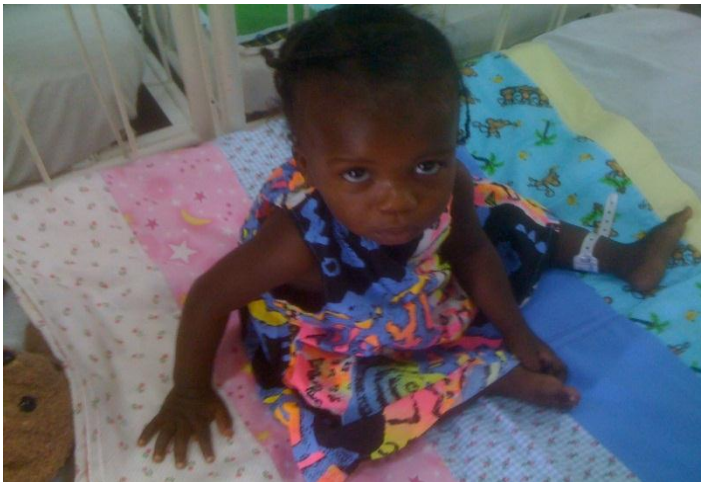


# Training Radiologists in the Caribbean

Brad Short

November 8, 2013



# ACR International Outreach Program History

- Before 2003 donated materials requested by ROF
- 2003-2004: Formed committee, formalized donations
- 2004-2008: Established website, donated materials, started Iraqi “Observership” program
- 2009-2010: Took over assets of former ROF
- Established needs assessment survey which led to the development of International Facility Profiles
- Established Goldberg-Reeder Travel Grant Program
- January 2010, established Haiti Radiology Outreach Program and Haiti Radiology Relief Fund

# Why Haiti?

- 10 million people
- January 2010 earthquake—absolute devastation
- Over 300,000 dead—over 1 million homeless
- Poorest country in western hemisphere
- Opportunity for “feet on the ground” project
- Radiologist volunteers were already there
- 2 hours from the U.S. homeland
- Opportunity to make a tangible difference

# First Steps

- Surveyed radiologists on the ground
  - Facilities served
  - Damage sustained
  - Current equipment and operability
  - Personnel issues
  - Technology issues (infrastructure, sustainability)
- Identified the Port-au-Prince area as most significant need
- Identified Grace Children's Hospital for specific help
- Wanted to tour other facilities to identify additional needs

# 2011 Fact Finding Mission

- March 29-April 2, 2011
- Drs. Borgstede, Ellenbogen, Phelps and Short
- Toured:
  - Grace Children's Hospital (70 inpatient beds)
  - University or General Hospital (700 beds)
  - Hospital of Peace (150 beds)
  - Radiolab (private full service clinic)
- Met with:
  - Haitian Medical Society representatives
  - Several of the 19 Haitian radiologists serving population of over 10 million





## Facts from the Visit in 2011

- 19 radiologists—population of 10 million
- 3 CT machines—no MRI
- GCH—80% damage to infrastructure
- GCH—developed transitional facility extended care to adults and children
- No radiology residency program—public hospitals are seriously neglected

# BOC Plan of Action

- Assist GCH with radiology department
- Develop “ongoing” educational program for island
- Signed 19 radiologists up for complimentary access to ACR educational materials
- Include radiologic technologists and ultrasonographers in educational programs
- Work towards helping re-establish a radiology residency program
- Assist in assessment and delivery of equipment (e.g. Siemens hybrid portable x-ray unit for Grace)
- Work with other NGOs to coordinate radiology efforts on the ground



# Radiology Education Days: 2012-2014

- Pre-Meeting and Post-Meeting Surveys
- Recruited representatives from multiple organizations
- Established logistical support on the ground through ICC (included facility needs, catering, travel, hotel, etc.)
- Created program, flyers, promotional materials, slides and agenda in Creole and English
- Coordinated the loan, shipment and delivery of 4 ultrasound units for hands-on training
- Provided certificates of completion for all attendees

# Radiology Education Days (RED) June 2012

- Held at Grace Children's Hospital on June 4-5
- 92 participants (60 capacity) attended
- Over 20 Haitian health facilities represented
- Traveled up to 6.5 hours each way each day
- Over 20 didactic sessions and hands-on training (clinical image review and ultrasound sessions)
- Event was publicized on 4 Haitian television stations
- Obtained e-mail addresses of participants for further education



# Picture of Leaders' Being Interviewed



# RED in Pediatric Imaging—March 2013

- June 2012 RED - adult plain film and ultrasound
- March 2013 program focused on pediatric imaging
- Over 100 attended--pediatricians, radiologists and other physicians
- Program featured:
  - Didactic lectures (13)
  - 4 ultrasound hands-on training sessions
  - Multiple small group case review sessions
  - Large group “interesting case” sessions



# Multiple Organizations Involved

- Grace Children's Hospital and International Child Care (ICC)
- Society of Radiologists in Ultrasound
- Society for Pediatric Radiology
- Society of Diagnostic Medical Sonography
- Sonosite
- World Federation of Pediatric Imaging



# Haiti Radiology Education Days – March 2013





# ACR Leadership

- Participated in afternoon hands-on sessions
- In the mornings met with officials and visited:
  - St. Damien's Children's Hospital
  - Grace Children's Hospital
  - Hospital Bernard Mevs
  - HUEH (University Hospital)
- In the evenings met with executives from:
  - Haitian Medical School
  - Partners-in-Health Facility in Mireabalais

# Post-Meeting Follow-Up

- Reviewed survey results—want more programs
- Provided participants with electronic access to further training materials
- Working with Bernard Mevs, Drs. Ankur and Zivin and RAD-AID to expand training to new residents at HUEH with focus on CT
- Working on plans for new radiology departments for GCH and HUEH
- Provided radiology library materials to programs we met with during the visit

# Planning Next Conference March 2014

- Continue to focus on plain film (chest and skeletal), obstetrical and pediatric imaging
- Ultrasound teams will go to facilities for hands-on sessions
- May be teaming with Chicago Haiti Consortium which includes Lurie Children's Hospital
- Will include didactic and hands-on training for radiologists, physicians, pediatricians, radiologic technologists and medical sonographers
- Teaming again with WFPI, SRU, ASRT and SDMS
- Will provide one-on-one training for radiology residents
- Goal to continue to fill training deficit



# Improvements are Happening:

- Radiology Residency Program started at HUEH—4 residents to date
- New CT machine at Bernard Mevs with backing from Medishare
- Establishing a distance learning program in CT for radiology residents and faculty
- Small rad tech training program started at Bernard Mevs with larger program being planned at Medical School
- Lot cleared for new construction at GCH
- Partners-in-Health facility now opened in Mireabalais
- Better established relationships with partner organizations, volunteers and radiologists on the ground
- Development of an observership program underway
- ACR is committed to long-term improvement in radiology



# Thank You!!!

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