Rwanda International Elective Nuts and Bolts / Cheat Sheet
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Participation Dates: March 21-April 19, 2015

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Brigham Research Institute and Center for Faculty Development and Diversity: bwhbri@partners.org (microgrant funding)
Rex Wong: rex.wong@yale.edu (housing)

Rwanda Overview:
- General: State in central and east Africa
- Geography: Bordered by Uganda, Tanzania, Burundi, and Republic of Congo
- Ethnic groups: Hutu, Tutsi, and Twa
- Languages: Kinyarwanda, French, and English
- Government: Semi-presidential constitutional republic
- Economy: Subsistence agriculture
- Historic: In 1994, the Hutu majority revolted against the colonial favored Tutsi minority which resulted in deaths of 1 million in 100 days

Centre Hospitalier Universitaire Kigali Overview:
- Worksite for international elective
- Located in capital city of Kigali, Rwanda
- Largest tertiary referral center in Rwanda
- 500 beds
- 2 diagnostic radiologists
- 1 Human Resources for Health Program diagnostic radiologist
- 1 computed tomography scanner
- 2 general radiograph units
- 2 ultrasound machines
- Web-based picture archiving and communication system
- Image-guided procedures performed on ad-hoc basis
- No conventional angiography

Before Departing:
- http://travel.state.gov/content/passports/english/country/rwanda.html (Department of State)
- http://www.brighamandwomens.org/Departments_and_Services/medicine/services/travelclinic/default.aspx (Brigham and Women’s Travel Clinic)
- Must have at least six months validity remaining in Passport
- One blank page required in Passport for entry stamps
- Tourist VISA required and purchased for $30 upon entry
- Yellow fever vaccination required upon entry
- Typhoid fever vaccination is recommended
• Malaria prophylaxis strongly recommended
• Currency is Rwandan Franc
  o In 2015, exchange rate was ~1USD to 700 Rwandan Francs

Supplies:
Our sources of supplies:
• CareFusion:
  o http://www.carefusion.com/
  o Jill.Schiller@carefusion.com
  o Interventional radiology supplies
• Boston Scientific:
  o cvgrants@bsci.com
  o Interventional radiology supplies
• Dr. Sandra Duran-Mendicuti (emergency department):
  o mduranmendicuti@partners.org
  o General travel supplies
• Rose Wach (CSIR and angiography supplies department):
  o rwach@partners.org
  o Interventional radiology supplies
• Frantz Pierre (angiography supplies department):
  o fpierre@partners.org
  o Interventional radiology supplies
• Michael Cotugno (pharmacy):
  o mcotugno@partners.org
  o General pharmaceutical supplies
• If taking supplies, email your airline as they will often provide some additional baggage allowance for humanitarian purposes

Funding:
Our sources of funding:
• Partner’s Healthcare Center of Expertise:
  o Centersofexpertise@partners.org
  o Twenty $2,000 travel awards annually to eligible Partners residents and fellows
  o Applications are due semi-annually
• Brigham and Women’s Research Institute and Center for Faculty Development:
  o http://www.brighamandwomens.org/research/microgrants/default.aspx
  o bwhbri@partners.org
  o Funds awarded based on merit up to $1000
  o Applications evaluated on a rolling basis
• Harry Mellin’s Foundation:
  o Departmental grants to be discussed with Drs. Seltzer, Weissman, Mayo-Smith, and Smith

Other potential sources of funding:
• Goldberg-Reeder travel grant:
  o http://www.acr.org/Membership/Volunteering/International-Outreach/Goldberg-Reeder-Grant
  o $1,500 grants each year to qualified radiology and radiation oncology residents and fellows seeking to spend at least one month assisting health care in a developing country
  o Submitted by no later than June 30 each year
• Gold Humanism presidential grant:
  o http://humanism-in-medicine.org/programs/program-grants/
  o Presidential level grant applications of up to $5,000
  o Reviewed on a rolling basis throughout the year

**Housing:**

Our housing:

• Glory apartments:
  o http://gloryapartments.com/new/
  o Arranged through Rex Wong (Yale University coordinator)
    ▪ Rex.wong@yale.edu
  o Daphrose Murekatete (owner)
    ▪ mdaphy59@yahoo.com
  o 1 and 2 bed apartments with private bathroom and kitchen
  o Need to purchase television and internet
  o 12 minute walk to Centre Hospitalier Universitaire Kigali
  o 10 minute walk to multiple restaurants and grocery stores
• Kigali, as of 2015, was safe to walk around at nearly all hours of the day

Other potential housing:

• King Faisal guest house:
  o http://www.kfshrc.edu.sa/wps/portal
  o 10 minute taxi ride to Centre Hospitalier Universitaire Kigali

• Many Human Resources for Health staff in area with extra rooms

**Food and Drink:**

• Grocery stores:
  o UTC building
  o T2000 building

• Restaurants:
  o Mexican: Meze Fresh
  o International: Heaven Restaurant and Inn
  o Indian: Khanna Khazana
  o African: Republika Lounge
  o Italian: Sol e Luna
  o Pizza: White Horse Restaurant
  o Ethiopian: Lalibela
  o French: Chez Robert
  o Chinese: Bamboo
  o Coffee: Bourbon Café

• Water not safe to consume
• Bottled water readily available

**Recreation:**

• Kigali, Rwanda:
  o Kigali memorial centre and gisozi genocide memorial centre
• Volcanoes national park and gorilla trekking:
  o http://www.volcanoesnationalparkrwanda.com/
  o Obtain Gorilla permit beforehand at the cost of $750
  o Secure driver and accommodations
Kirenga (driver and guide)
  - birdrwanda@yahoo.com
  - Can arrange for the gorilla trekking permits
  - Charges approximately $500 per person additional for driving to the national park and for accommodations

- Akagera national park and wildlife game drives:
  - http://www.african-parks.org/Park_2_Akagera+National+Park,+Rwanda.html
  - http://www.african-parks.org/Park_2_92_Ruzizi+Tented+Lodge.html
  - Secure driver and accommodations
  - Kirenga (driver and guide)
    - birdrwanda@yahoo.com

**Daily Centre Hospitalier Universitaire Kigali Duties:**
- 800AM-500PM daily
- Interpret 25-40 CTs per day
- Perform interventional procedures as requested
- Complete ultrasounds in the pediatric emergency department and adult wards
- Perform barium swallows and enemas
- Serve as consultant radiologist
- Participate in tumor boards
- Round on patients

**Post-Experience Deliverables:**
- Partner’s Healthcare Center of Expertise:
  - 2 online blog entries
  - 1 summary paper
  - 1 group presentation
  - Receipts

- Brigham and Women’s Research Institute and Center for Faculty Development:
  - 1 summary paper
  - Receipts

- Harry Mellin’s Foundation:
  - Report back summary presentation at resident and faculty staff meeting
  - Receipts

- Academic journal submission on experience:
  - Journal of interventional radiology
    - http://www.jvir.org/
  - Academic radiology
    - http://www.journals.elsevier.com/academic-radiology/
Oral surgeon working at the Centre Hospitalier Universitaire Kigali

Surgical team performing surgery the Centre Hospitalier Universitaire Kigali

Physician interpreting radiographic images with a patient at the Centre Hospitalier Universitaire Kigali

Computed tomography control room and 64-slice Siemens Somatom Definition at the Centre Hospitalier Universitaire Kigali
Maternity ward at the Centre Hospitalier Universitaire Kigali

Radiology Department at the Centre Hospitalier Universitaire Kigali

Web-based picture archiving and communication system which has been in place since 2013 at the Centre Hospitalier Universitaire Kigali

The need for Interventional Radiology and image-guided biopsies in resource-limited nations such as Rwanda
The need for Interventional Radiology and image-guided aspirations and catheter drainages in resource-limited nations such as Rwanda.

Donated supplies that was transported to Rwanda.

Donated supplies that was transported to Rwanda.
Jeffrey F. B. Chick performing an ultrasound-guided catheter drainage on a 2-year-old female with elevated amylase and lipase and cystic mass arising adjacent to the pancreas thought to represent a pseudocyst.

Nikunj R. Chauhan performing a computed tomography-guided biopsy on an 11-year-old female with large predominately fat containing abdominal mass concerning for liposarcoma or desmoid.

Nikunj R. Chauhan performing an ultrasound-guided biopsy on a 4-year-old female with multiloculated cystic mass arising from the right adnexa suspicious for ovarian malignancy with pseudomyxoma peritonei.
Jeffrey F. B. Chick performing a computed tomography-guided biopsy on a 22-year-old male with abdominal distention and weight loss for two years complicated by urinary retention and bowel obstruction with extensive abdominal and pelvis lymphadenopathy concerning for lymphoma.

Nikunj R. Chauhan performing an ultrasound-guided liver biopsy on a 61-year-old female with obstructive jaundice and infiltrative hepatic mass concerning for cholangiocarcinoma.

Jeffrey F. B. Chick preparing for a hip aspiration on a 3-year-old male with fever, left hip and thigh collections, left pleural effusion, and pericardial effusion concerning for disseminated staphylococcus aureus infection.
Nikunj R. Chauhan dictating studies at Centre Hospitalier Universitaire Kigali

Glory apartments kitchen

Glory apartments bedroom
Hippopotamus in Akagera National Park in Rwanda

Lion in Akagera National Park in Rwanda

Elephant in Akagera National Park in Rwanda

Lioness in Akagera National Park in Rwanda