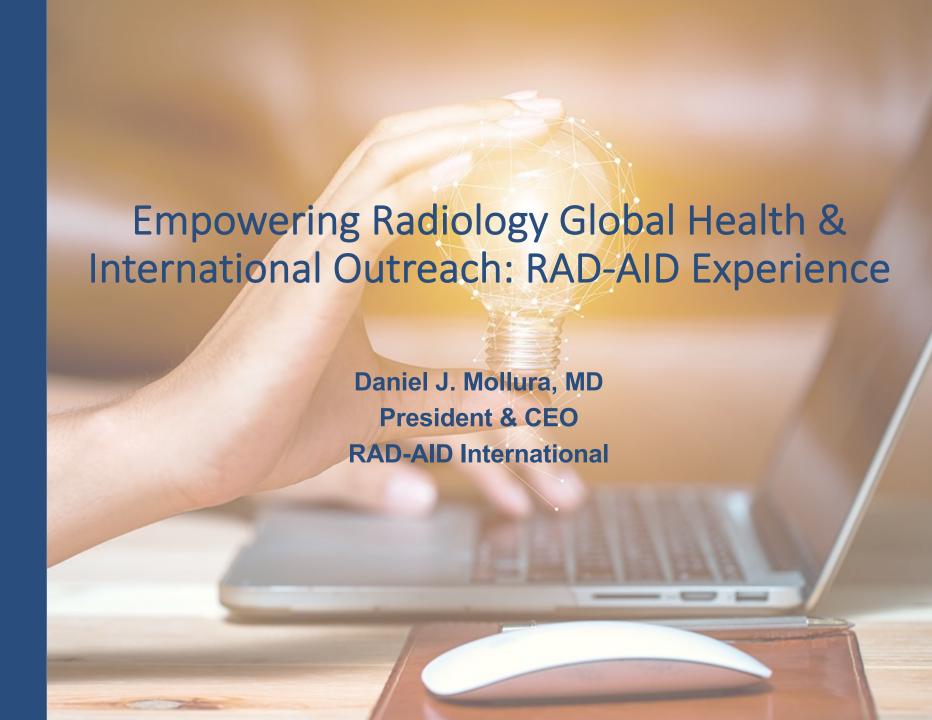


RLI Power Hour

February 23, 2022



Thank you, RLI

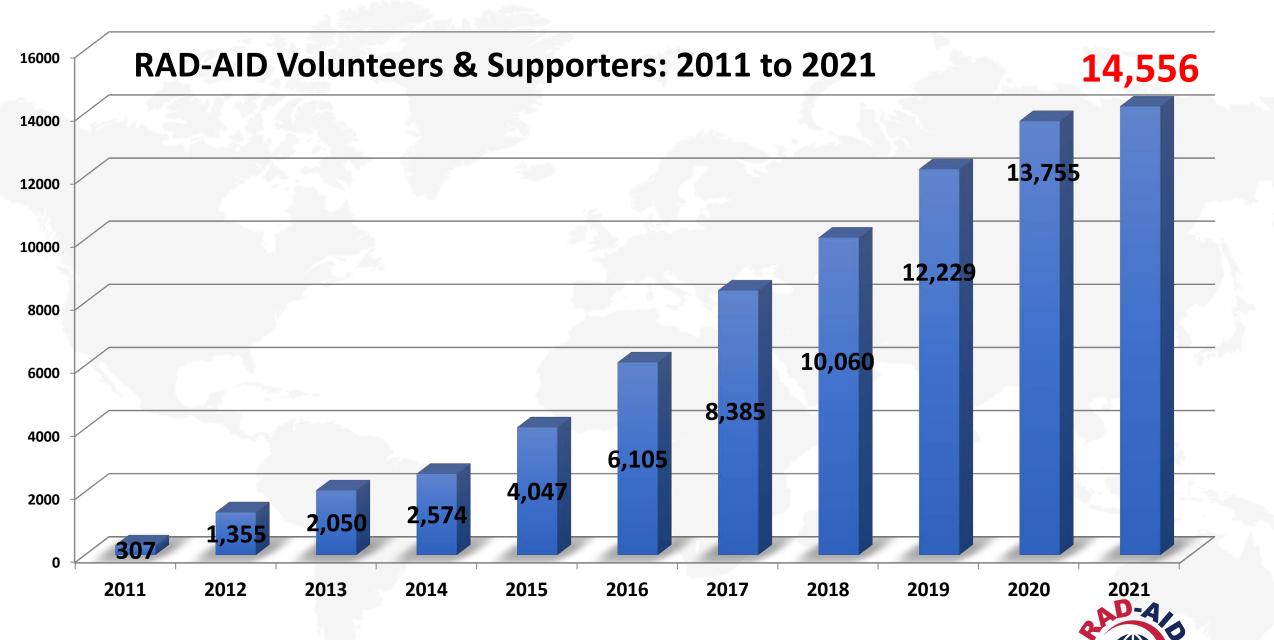


We were asked by RLI to give stories of our experience in global health...



RAD-AID in 40 Countries & 91 Hospitals





Many Stories...



Ghana



Morocco



Jordan: Zaatari Refugee Camp



India



USA



Malawi

And others...

Daniel J. Mollura, CEO

Common Question We Encounter

What characteristics make a global health volunteer most effective?



Characteristics + Stories

- Procedure
- Patience
- Principle
- Perseverance



Procedure



Over Half the World Lacks Radiology

World Health Organization

Source:

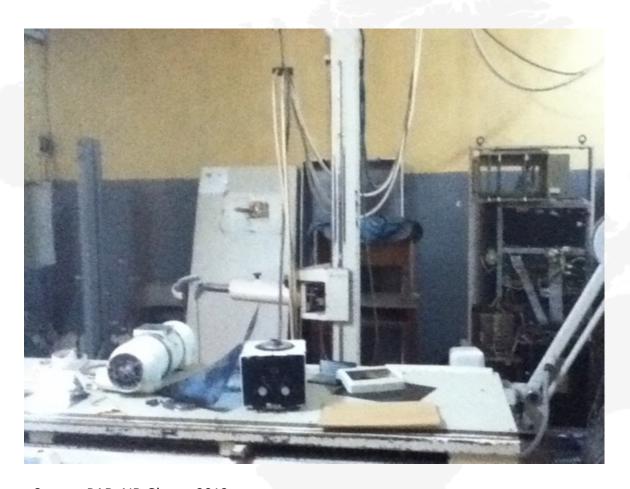
WHO compendium of innovative health technologies for low-resource settings 2016-17. Geneva: World Health Organization; 2018. License: CC BY-NC-SA 3.0 IGO





Source: Dominican Republic, Diana Dowdy, RAD-AID







Source: RAD-AID Ghana, 2012







Source: RAD-AID India





Radiology-Readiness

What does a site HAVE

What are the site's GOALS

RAD-AID Fills Key Gaps

- What is a site ready for?
- Highest Yield Resources
- Solution Adapted to Local Context



Radiology-Readiness

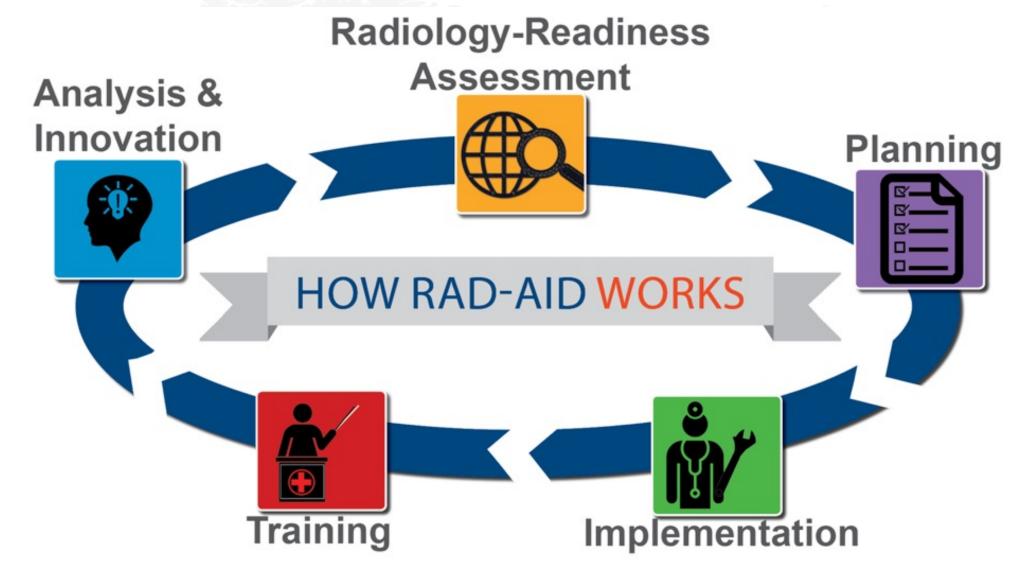
Sections

- Infrastructure
- Roads/Topography
- Human Resources
- Personnel Training
- Quality Control
- Equipment
- Finance/Insurance
- Radiation Safety
- Pharmaceuticals

- Infection Control
- Epidemiology
- Population Features
- IT networks
- PACS/EMR/RIS
- Clinical Tests
- Referral Networks
- Community Engagement
- Patient/MD Communications

- Interventional Radiology
- Nursing
- Breast Imaging
- Artificial Intelligence
- Radiation Oncology
- Medical Physics, QA/QC
- Consumables/Supply Chains
- Equipment Maintenance
- Procurement







RAD-AID LAOS



RAD-AID Invited by Friends Without A Border Foundation



RAD-AID's Radiology-Readiness Assessment, 2015



What does a site HAVE

- New pediatric hospital
- Comprehensive children's health in LFHC

What are the site's GOALS

- Provide radiology (none in 2015)
- Radiation safety for staff/patients
- Personnel training

GAPS

- Radiology Dept was an empty room
- No Equipment
- No Personnel
- No imaging-staff educational pathways



What does a site HAVE

- New pediatric hospital
- Comprehensive children's health

RAD-AID fills GAPS

- Build radiology dept in LFHC
- Donate radiology equipment
- Train Staff Remote + Online
- Digital Imaging/Computers

What are the site's GOALS

- Provide radiology (none in 2015)
- Radiation safety for staff/patients
- Personnel training

GAPS

- Radiology Dept was empty
- No Equipment
- No Personnel
- No educational pathways

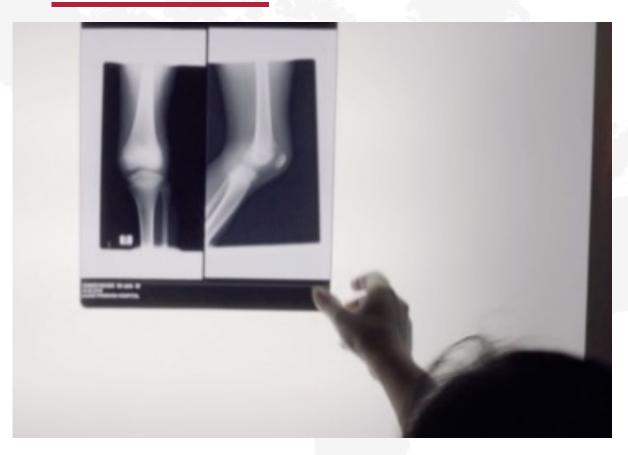












- No Digital images at LFHC
- No Picture Archiving & Communications System (PACS)

LFHC, 2017



PACS Donation, 2018



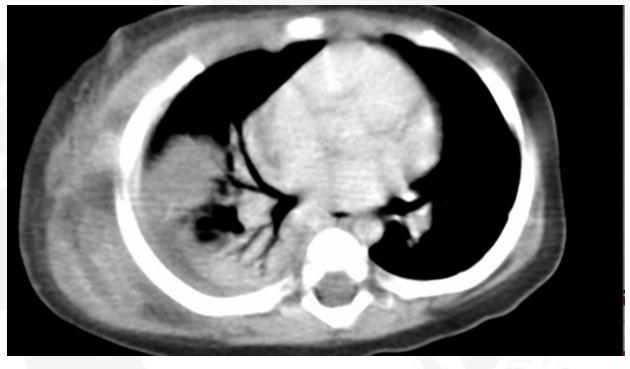
RAD-AID Volunteers in IT and Clinical teams worked on installation of PACS at LFHC





RAD-AID LAOS: CT





Tripartite agreement: LPPH, LFHC and RAD-AID to support CT, provide interinstitutional PACS, & enable access of LHFC's patients to CT services at LPPH

Patience



RAD-AID Kenya

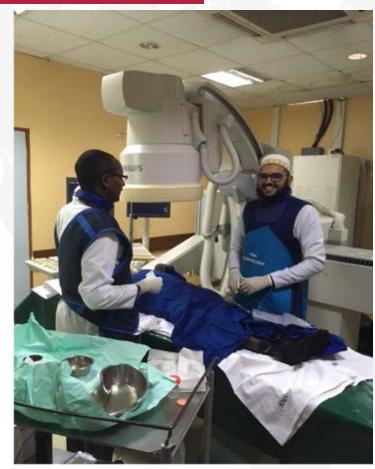


Dr. Dixon and Dr. Baigorri with University of Nairobi Residents, 2018



Dr. Frances Colgan, Jessica Salerno, Meena Amlani, Dr. Chacha Magabe & Dr. Gladys Mwango

RAD-AID Kenya



UoN Residents preparing for nephrostomy placement.



Bob Dixon in interventional suite with IR team at Kenyatta National Hospital, 2019



Patience: a 2-year Journey

- Planning
- IR Curriculum Design + Approval
- MOU
 - Tripartite effort first
 - Bilateral second



Launched 2020



Kenya Association of Radiologists

and

RAD-AID International

A PORTO NET

present an

Interventional Radiology Symposium



23 - 24 July 2020

Supported by

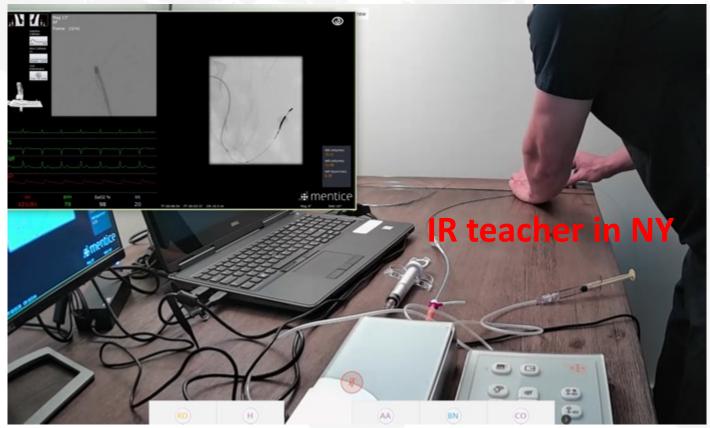


Dr. Bob Dixon (left) and Dr. Elijah Kwasa (right) leading 2020 KAR RAD-AID IR Symposium

RAD-AID launched first-ever IR Fellowship in Kenya with University of Nairobi, 2020

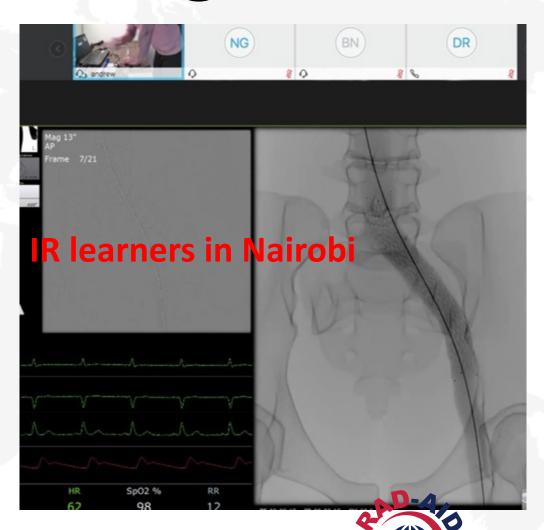


Tele-IR Simulation-Training



Real Time IR Simulation-Sessions:

Example: NY→Kenya



2022

- April and September Team Trips
- PACS Donation, University of Nairobi
- IR Nursing
- Oral Exams, first graduating IR Fellows Fall 2022

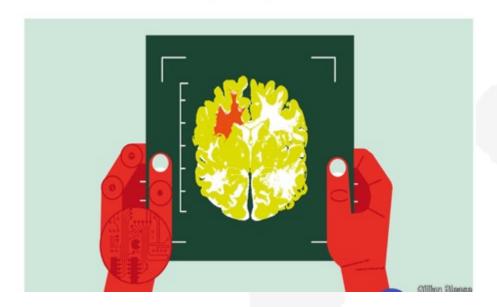


Principle



AI, radiology and the future of work

Clever machines will make workers more productive more often than they will replace them



Radiology: Artificial Intelligence

Al Hype and Radiology: A Plea for Realism and Accuracy

John Banja, PhD

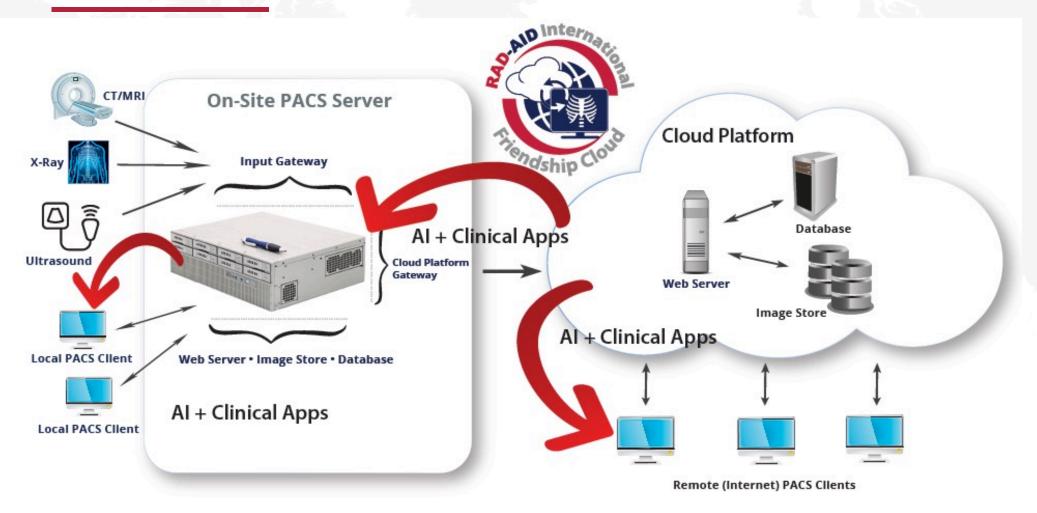
Radiology AI: 2020

 Overcome hype, noise and expectations by adhering to your principles.

Economist, June 7, 2018



RAD-AID PACS + AI PROGRAM



Donate PACS + Donate Al



RAD-AID PACS+AI

TEACH.

Clinical Radiology Education

- Image Interpretation & Procedures
- How to Appraise Al Outputs
- How to Supervise AI Implementation
- How to Perform Local AI Validation





USE

Phased Al-introduction

- Try AI (Pilot introduction)
- Public/Patient Awareness of Al
- Pilot AI: Patient Cases
- Pilot Al: Population Health



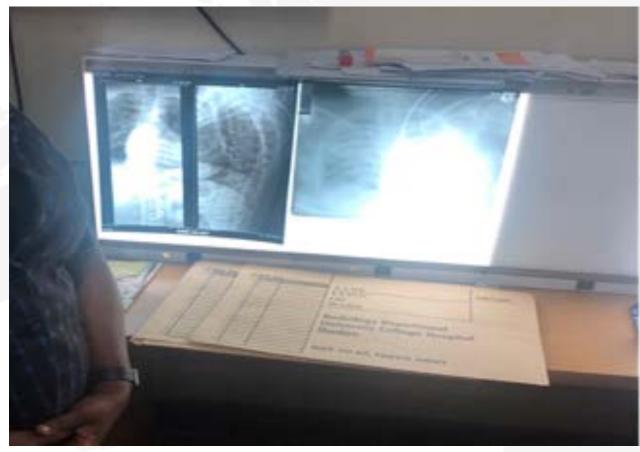
Infrastructure Implementation

- Radiology Hardware (Modalities)
- Servers/Networks, IT personnel
- PACS/RIS/EMR, medical software
- Cloud



RAD-AID NIGERIA: 2018





2018: University College Hospital, Ibadan



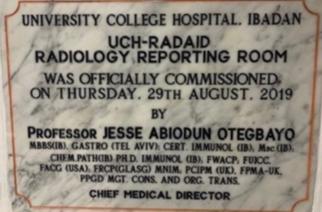
RAD-AID PACS PROGRAM







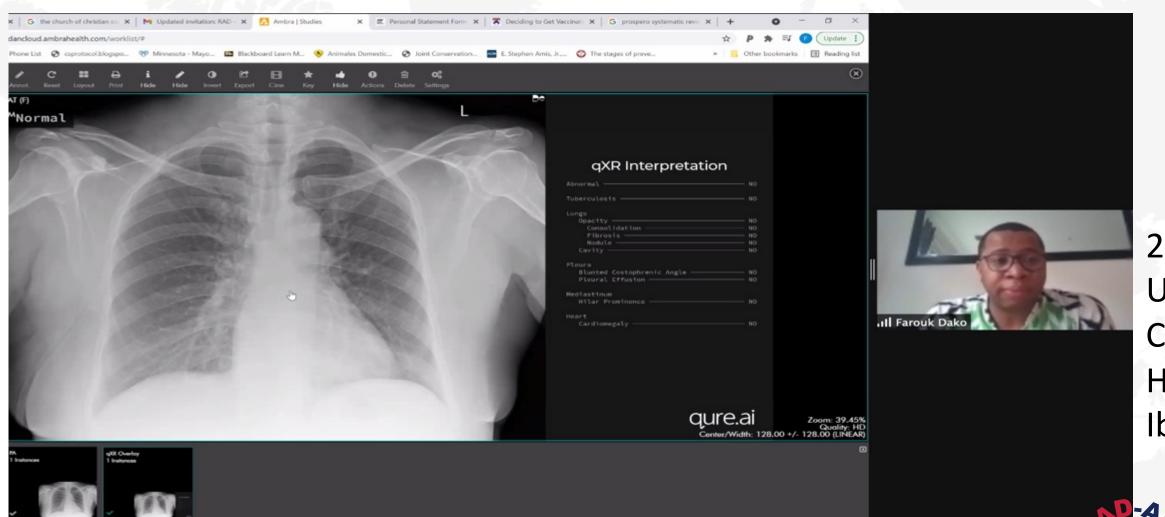




- Nigeria
- University
 College
 Hospital,
 Ibadan



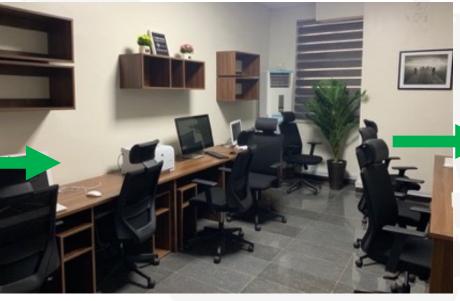
RAD-AID INFORMATICS PROGRAM



2021:
Universit
College
Hospital,
Ibadan

IMPACT of PACS/Al Nigeria







2018

2019

2021

All film, no computers

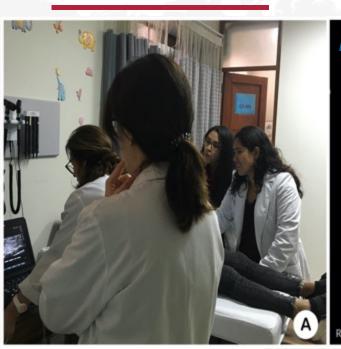
Computers + PACS

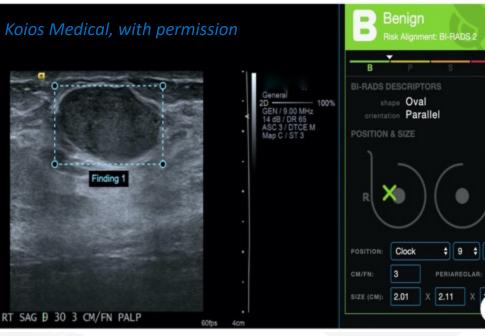
Digital Imaging + Al

University College Hospital in Ibadan, Nigeria



Al for Breast Cancer Screening







Peru

Kenya

- *With support from Koios Medical and Ambra Health
- **Google Foundation Grant for Addressing Racial Bias in Radiology Al

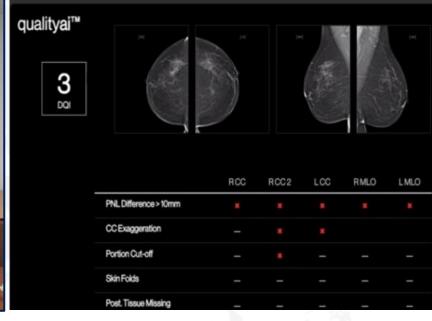
Al for Breast Cancer Screening



Interpretation Teaching



Mammo Suite Tech Training



Al Implementation



Perseverance



Enter an Email Address

SIGN UP FOR E-NEWS

DONATE

HOME

WHO WE ARE

WHAT WE DO

WHERE WE WORK

RESOURCE CENTER

PARTNERS

CHAPTERS

Mission Statement

RAD-AID Mission Statement

To improve and optimize access to medical imaging and radiology in low resource regions of the world for increasing radiology's contribution to global public health initiatives and patient care.

RAD-AID Principles

- To conduct our business practices with the highest standard of integrity and honesty, believing that our most precious resources are our reputation and the trust of our members, partners, associates, supporters, and our community.
- To attract and nurture the most talented, ethical, diverse, and dynamic associates in creating an environment for each individual to attain the highest professional potential in tandem with the growth and success of our organization.
- · To build an organizational culture that inspires creativity, drives innovation, and rewards perseverance. Always persevere.
- To pursue continuous self-improvement by seizing opportunities to strengthen our organization, engaging in self-assessment, and revitalizing our mission statement.

How You Can Help

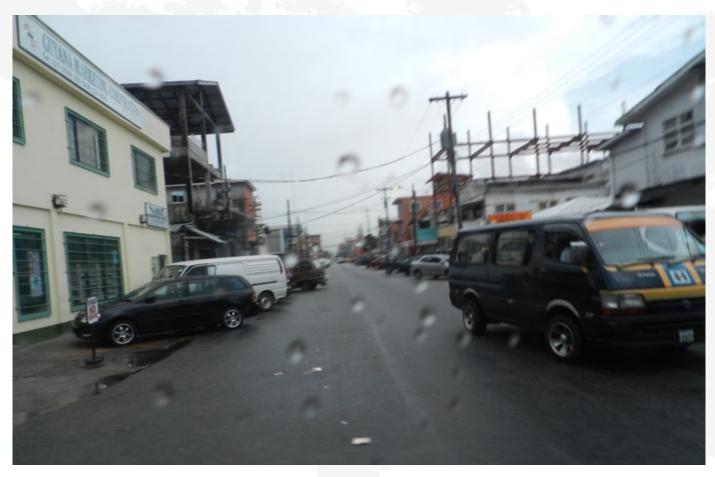
We welcome you to become part of RAD-AID as a growing global organization of advocates for medical technology in low resource regions.

DONATE TO RAD-AID

VOLUNTEER WITH RAD-AID



RAD-AID Guyana: 2013







RAD-AID Guyana: 2016



RAD-AID Guyana & Guyana Ministry of Public Health, 2016



RAD-AID Guyana: 2017











2 CT Donations





Georgetown Public Hospital



Bartica Regional Hospital

RAD-AID training of CT Radiology Professionals







BEFORE

Donated PACS

AFTER







First graduating class, 2020



RAD-AID Flywheel

- Procedure
- Patience
- Principle
- Perseverance



A Nonprofit Public Service



THANK YOU

