

#### **Increasing Access to Radiology:**

## A case study to install 29 Digital X-ray systems in Guatemala

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John Vanden Brink Rotary Club of Park Ridge Rotary District 6440

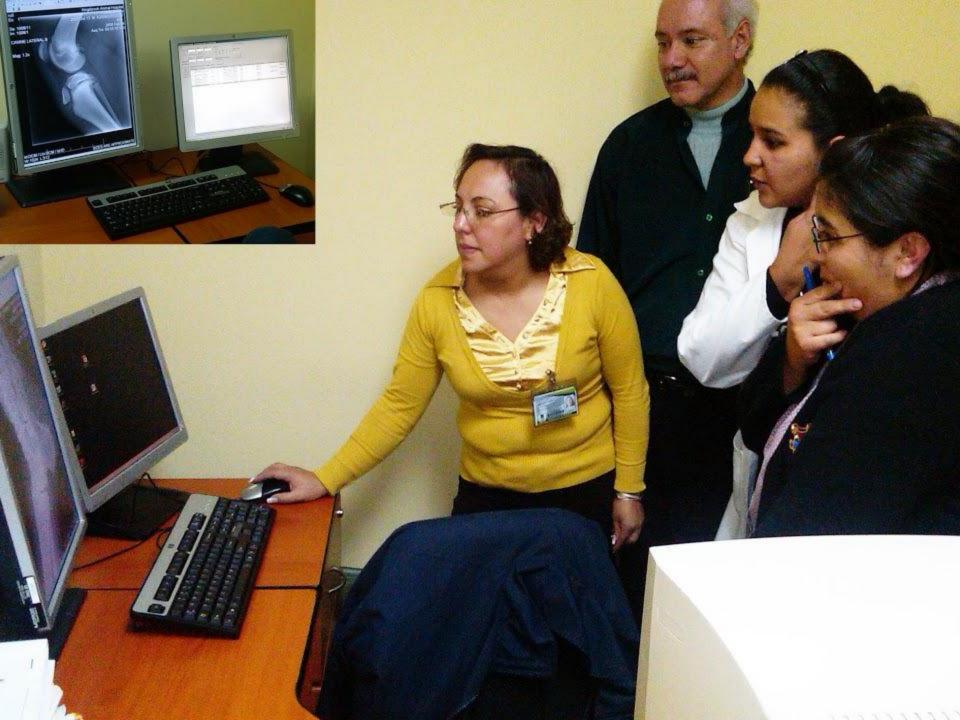
## Rotary District 6440 Guatemala Project

- May 2007-Decision to place digital WHIS-RAD in Guatemala City
- February 2011-Digital WHIS-RAD with Computed Radiography (CR) dedicated at Municipal Clinic in Guatemala City
- Sept 2013-Digital WHIS-RAD with Direct Digital Radiography dedicated as first of 29 by R.I. President-elect Gary Huang from Taiwan

# Dr.Palmer (L) and Dr. Hanson (R)







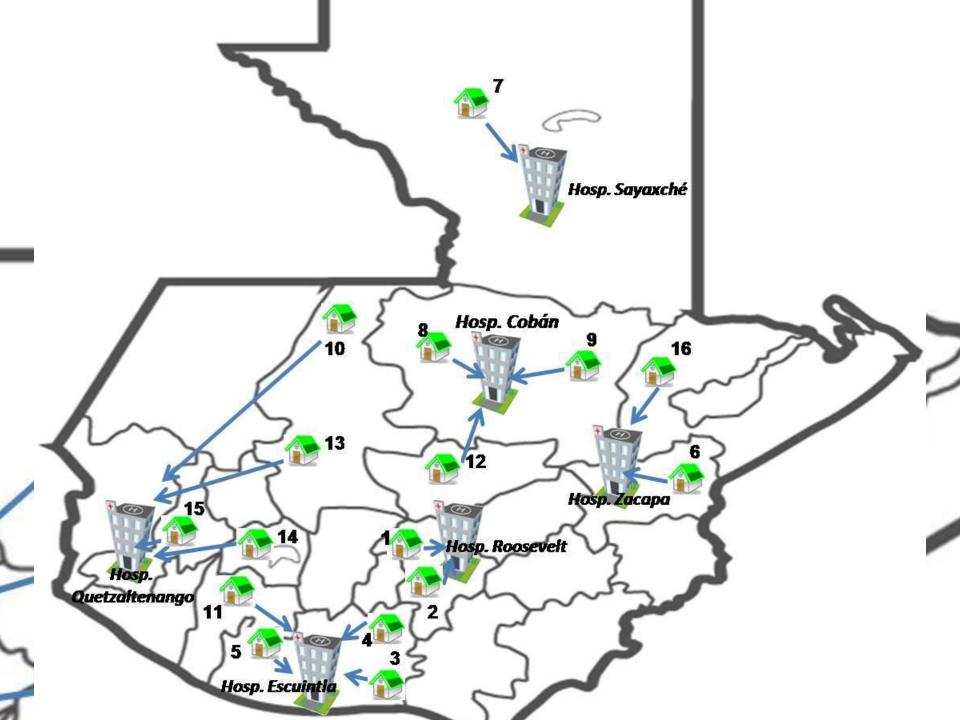


# **Guatemala Multi-site Installation**

- Joint activity of District 4250 (Guatemala) and District 6440. Ministry of Health and Pan American Health Organization
- 29 sites with digital X-ray
- Multi-year, multi-million dollar installation
- Template for Latin America and countries around the world
- Digital imaging project of this magnitude never been attempted before in developing countries

## Benefits of Digital X-Ray

- Improved patient care
  - Images immediately available for diagnoses and treatment
  - Teleconsultation by radiologists remotely
  - Brings medical expertise to remote locations on real time basis
- Potential to reduce the operational costs
  - Digital images can be stored, transmitted, and displayed electronically.
  - Film, Chemicals and dark room replaced.
  - Work flow efficiencies



#### The WHIS-RAD

World Health Imaging System for Radiography (WHIS-Rad) is a WHO/PAHO specification for a general purpose X-ray unit for developing countries

- Safe, reliable, easy to use and maintain
- Proven high quality performance
- Supported by WHO training manuals
- Low Cost -WHIS-RAD CR \$50K WHIS-RAD DR \$80K



## The WHIS-RAD



## GLOBAL HEALTH CONCERN What's the Problem?

60% of All Medical Diagnoses Requires X-ray Analysis

2/3<sup>rds</sup> of the world's population do not have access to basic medical imaging

- Common health problems diagnosed with a basic Xray:
  - Trauma
  - Infection, including TB, pneumonia and complications of AIDS
  - Parasites
  - Cancer in many variations
  - Intestinal obstruction and some other abdominal problems

#### **Current Status**

- CR and DR installed in Guatemala
- Memorandum of Understanding Linking Rotary, PAHO and MOH
- Recognition of need and project at highest levels of Rotary
- Challenges include site preparation, technical, funding and sustainability

For more information go to http://www.parkridgerotary.com/whis-rad\_library. Direct contact: digitalwhisradlibrary@gmail.com



### **Rotary International**

- 1.3 million members in over 200 countries
- 33,000+ clubs
- \$600 M Foundation
- Eradication of polio #1 project-over \$1B spent by Rotary-Gates Foundation has provided over \$500M in matching funds

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