

Telehealth Medical Program REN Haiti

Scott C. Simmons, MS Director of Telehealth

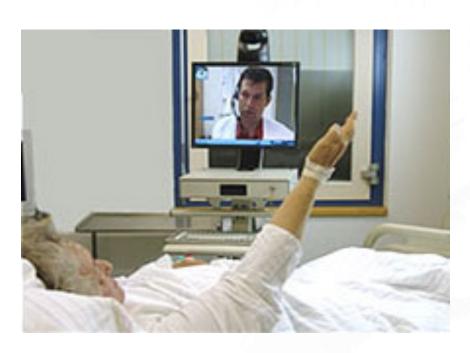
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Telehealth is the technology-mediated provision of health services & education where & when they are needed

Telehealth allows a patient to see a clinician when the provider isn't there.

Operational modes



Synchronous/interactive

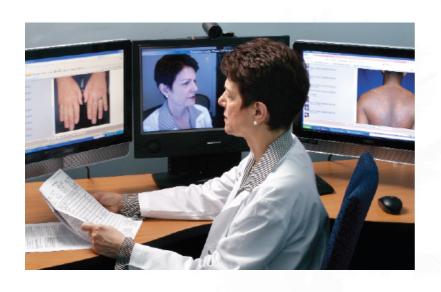


Deferred/asynchronous "store-and-forward"



TELEHEALTH
A few examples...

Store-and-forward teledermatology



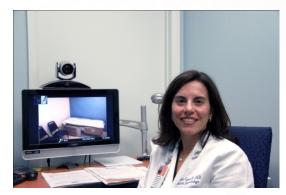
- Completed 3-year contract with DoD
 - 31 bases in 17 states
- Royal Caribbean
 - For RCL employees
- Indian Health Services
 - Up to 75 sites in 29 states

FL Department of Health: Pediatrics





- Tele-dermatology
- Tele-nutrition
- Tele-genetics
- Tele-psychiatry



Miami-Dade School Telehealth



- 6 schools in N. Miami Beach
- Peds 1° care
- Specialty care



Teleophthalmology





- Remote-controlled 3-D slit lamp
- Retinopathy of prematurity for NICUs
- Standard teleophthalmology for anterior & posterior segments
- Optical coherence tomography

Telepathology





- Intraoperative frozen sections
 - 4 hospitals
 - Biolmagene platform
- Oversite of field hospital lab in Haiti

Videophones for elder care



- UM Center on Aging
- Family caregivers

Distance education



- Grand rounds
- Special lectures
- Medical, nursing and allied health education
- Patient education
- Public health

Interactive Distance Learning: Pan-American Virtual Conferences in Dermatology



Argentina Bahamas Brazil Chile Colombia Dominican Republic **Ecuador** Guatemala Honduras Mexico Panama



INTERNATIONAL HUMANITARIAN ASSISTANCE & DISASTER RELIEF

A little history...

UM Family Residency, Cap-Haitien

- Goal: Rebuild the primary care work force
- Partners: Ministry of Health & Universite d' Etat d' Haiti Faculte de Medicine
- 23 graduates since 1998
- ARNPs trained in Cap-Haitien
- Provide HIV services: Cap-Haitien & clinics in the North
- USAID support, >2,000 patients

TH for humanitarian assistance & disaster response







- Dominican Republic (Oct 2008)
 - Ophthalmology, pediatrics
- Guyana (July 2009)
 - Renal transplant (WRAMC)
 - Infectious disease
- Haiti (Jan 2010 present)
 - Teleradiology
 - Pediatric subspecialties
 - Trauma and critical care
- Dominican Republic (May 2011)
 - Teledentistry

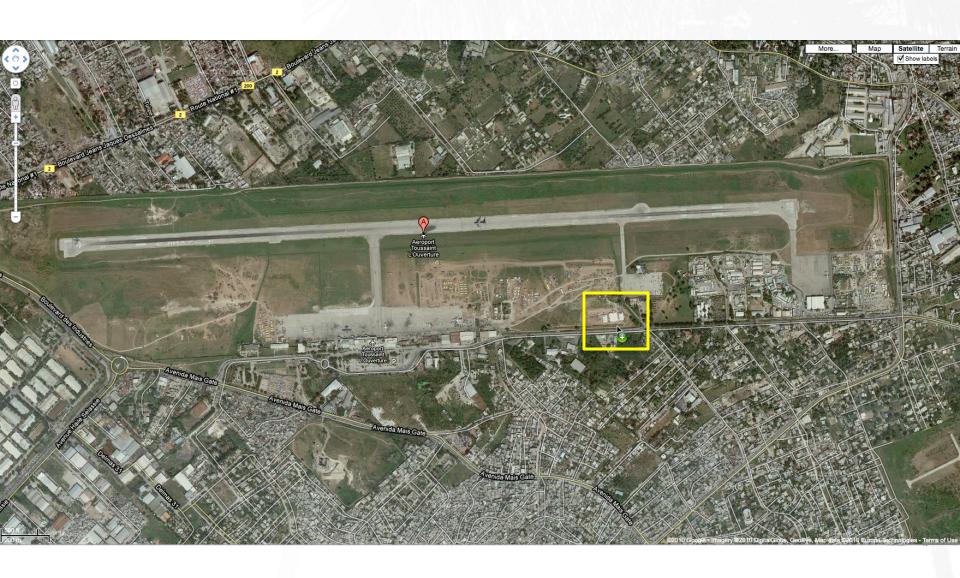
UM/Project Medishare: Telehealth in Haiti Earthquake Relief

Real-time

- Inpatient bedside rounds by UM Trauma team in Miami
- UM pediatric specialist consults
- Leased Access Haiti internet services
- Donated high-bandwidth satellite links and Polycom,
 Tandberg, and Cisco videoconferencing systems

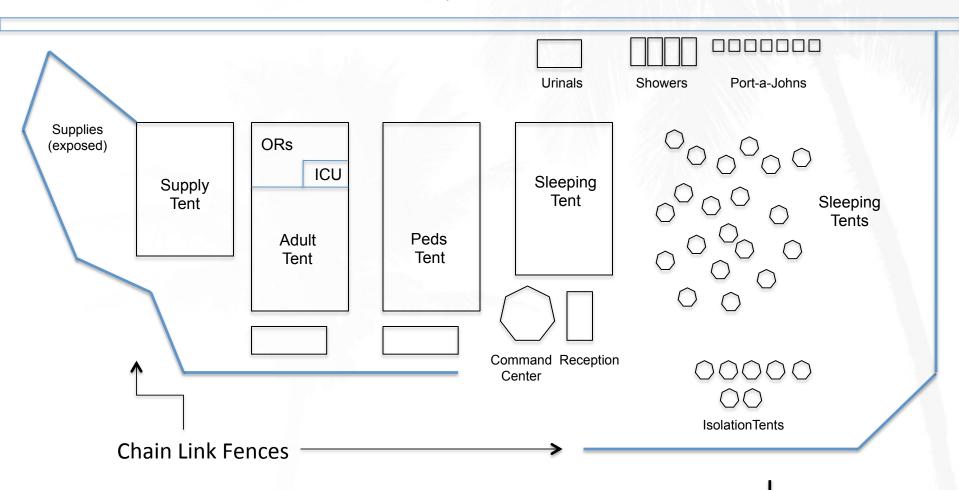
Store-and-forward

- Swinfen Charitable Trust: global specialist network
- Teleradiology, donated PACS/DICOM gateway, MedWeb



UMH-Haiti Site Layout

Airport Wall













REN HAITI
Telehealth Medical Program Overview

Telehealth medical program

- Goal: Build sustainable indigenous telehealth capacity for clinical services & health sciences education
- Objectives:
 - 1. Identify telehealth sites
 - 2. Determine telehealth systems
 - 3. Plan a Haitian Telehealth Resource Center

Telehealth will enable medical expertise & oversight, education & training between Haitian sites & connected international partner sites.

Identify Telehealth Sites in Haiti

- Assess facilities: readiness, willingness
- Hospitals, larger clinics and schools
- Reach out to other NGO-supported health initiatives to jointly leverage telehealth
- Determine telehealth systems
- Plan rollout: training, implementation

Haitian Telehealth Resource Center

- Develop & maintain policies, procedures & best practices for clinical telehealth
- Gateway for videoconference bridging, scheduling, database hosting
- Platform for real-time & online health professional training & education for clinical, administrative, technical personnel

Humanitarian telehealth



- Reducing barriers to charity care
 - Travel
 - Security/safety
- Training of in-country health professionals
- Pre-travel screening & post-travel f/u

UM TeleHealth's strengths

- Systems engineering
- Telehealth operations
- Standard operating procedures & standards
- Telehealth in humanitarian assistance & disaster relief
- Industry relationships

Telehealth medical program summary

Build a sustainable indigenous telehealth capacity for clinical services & health sciences education, including a Haiti Telehealth Resource Center.



Convenient, connected care.

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