



Outline

- Context
- Experience with Telehealth at Cisco (HealthPresence)
- Future of Telehealth care at a distance
- Disclosures none

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Cisco contex

- On site primary care clinic opened November, 2008
- Called LifeConnections Health center
- Focused on 50,000 San Jose employees + dependents
- And 70,000 employees in 80 countries
- Paperless, wireless clinic environment
- >15,000 patient vists/year
- Tech savvy population
- Fundamental business enables remote work
- Travel constrained for economic reasons
- HealthPresence launched summer 2009

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HealthPresence at Cisco

- Research Triangle Park (RTP) N.C.
- 4200 employees
- Small RN staffed on site clinic + lab for employees
- Wove in on screen NC patients with SJ pts daily 4-5/d
- I have NC medical license
- Set up full referral panel, scope of services, lab
- Make sure e-Rx worked; lab interfaces, etc.
- Well received by patients
- Local Duke clinic FP: "you will put us out of business"

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Cisco on site San Jose Clinic



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LifeConnections Health Center



UCLA Histoli System



UCIA Histoli Synon

Intake with exam room in background



UCLA Histoli System

- Immersive experience
- Ease of use
- Integrated environment
 - TelePresence
 - Medical devices
 - Knowledge systems
 - ·Collaboration Tools
- Adaptive solution
- Scalable

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- Play video
- http://www.cisco.com/web/strategy/healthcare/cisco_healthpresence_solution.html
- Scroll down to patient experience video

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HealthPresence Scope of Services

- Health Promotion and Disease Prevention
- Travel Medicine
- · Minor illness and injury
- · Chronic illness care
- Counseling
- Lab follow up

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Some Advantages of Care at a Distance



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Felehealth advantages

- Distance geography and time
- Capacity scarcity in clinical expertise and optimizing provider cascade
- Scheduling across time zones 24x7x365
- Collaboration one patient to many providers, many-tomany providers and eventually many-to-many patients
- Personalization introducing information into the encounter to enriches patient learning and engagement
- Diagnostic capacity and instrumentation increasing clinical accuracy, training by specialists (case based)
- · Competitive advantages-reach, footprint, expertise

UCLA Hisald System

Telehealth Challenges

- Direct hands on physical exam challenges
- Many procedures
- · Patient room must be for full view
- Can be harder to judge body language fidgeting, etc.
- Scope of services important
- Technology glitches
- Need to know distant "staff", referral docs, next step testing facilities –US, MRI, and labs well and work out referral processes, data transfer, maps, etc.

UCLA Histolic System

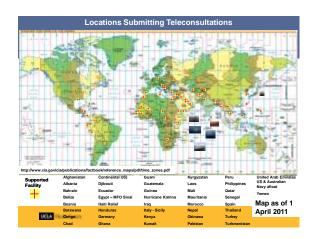
HealthPresence eXchange platform

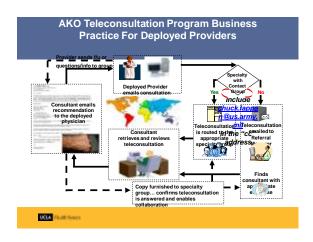


Tripler Army Medical Center HI



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Referring Physician Narration

The attached photo is of a local woman, probably age 40°s. Has had what is on her leg for a couple of years (as best Lean tell with her story). She report hat she has been to the Province hospital, and even to the hospital in the capital, which is quite a distance and even to the hospital in the capital, which is quite a distance treatments, but did not help. It is not particularly painful, though hos does state it feets like "crawling" on her skin. Otherwises the is relatively healthy and has no other obvious illnesses or derm pathology.

Appreciate your thoughts, and I recognize it's not a lot of information to go by with some abstract history and a single phote I've already forewarned her that it is unlikely I can do anything which will resolve this.

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ermatologist's Recommendation / Dx

8: 40's female with more than 2 years of a largely asymptomatic, expanding lesion on the left leg. It failed to respond to limited treatment at a local hospital. Review of systems is essentially negative.
0: Focal examination of the left leg demonstrates a large, variably

hemorrhagic foci.

Assessment/Recommendations - This is very likely a deep fungal infection. Specifically, it is most filially to be chromoblastomycosis. It is most filially to be chromoblastomycosis. It is most common on the foct and leg and probably begins following traumatic incoalation of plant matter. The differential would include other deep fungals, but having spent a lot of time in the tropics recently involud be surprised if was anything but chromoblastomycosis. If

possible, a conlimatory biopsy could be done or a touch prep of cut itsus (prime areas would be the indurated, vertucous leading edge). Unfortunately, treatment is quite difficult and may not ultimately be successful even in the best of circumstances. Terestment would be comprised of a very long course of systemic fungidatil and fungitatil experts (i.e. the faintime + a pystemic aready with or without open experts (i.e. the faintime + a pystemic aready with or without once vertucous/humoral and may lead to disability. On the other hand, it may remain localized and the have indolently

Referring Provider's Follow Up

Your explanation is understandable, and certainly fits the setting. I've never heard of chromoblastomycosis (blastomycosis, yes, but not chromoblastomycosis). I'll remember that now when I take Board recentification in 2 years.

don't have any oral anti-fungals in our supplies, have topical. I can at least advise her what the cause is when I return to her village in 3 days for anothe medical outreach.



Guidelines and Standards

- American Telemedicine Association
 - · Standards and Practice Guidelines
- CMS
 - 3/2011 rule effective 7/5/2011 re credentialing of providers
 - •Title 42 Fed. Code Reg. Section 482.12
 - Hospital providing telemedicine must meet and verify credentialing and privileging has been performed
 - Allows receiving hospital to grant privileges based on staff recommendations and that rely on info provided by transmitting hospital
- California All Facilities Letter 11-33, 8/3/2011
 - Must follow California law re written into medical staff by laws
- · Policies at hospitals

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ATA Standards and Guidelines



Future: Where is this going

- It's already here local HC systems purchasing
- Range of provider and patient options
- Scalable
- One step closer to real time
- · Add on to secure messaging
- · Anytime, anywhere, any place
- · Global community is catchment area
- · Those who do it best first will take market share
- · Need for national and international licensure



Harvard Business Review Jan-Feb 2010

- #2 of Ten Breakthrough Ideas for 2010
- The Technology Than Can Revolutionize HealthCare "When the day comes that physicians and patients readily engage in all three types of virtual interaction asynchronous (such as e mail), synchronous but remote (such as videoconferencing) and device intermediated (such as kiosk collection of vital signs) up to three fifths of today's office visits can be eliminated."
- Remember the Duke quote



Musings about the future

- "640K ought to be enough for anybody." Bill Gates, 1981
- "Heavier-than-air flying machines are impossible."
 Lord Kelvin, president, Royal Society, 1895
- "Who the hell wants to hear actors talk?"
- H.M. Warner, Warner Brothers, 1927
- "This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no

value to us." Western Union internal memo, 1876.



Q & A

• Thank you

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