Telehealth and Videoconferencing; Bridging the Gap in Healthcare

HICS

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Telehealth / Telemedicine “What is it?”

Broadly defined, telehealth / telemedicine is the transfer of electronic medical data (i.e. high resolution images, sounds, live video, and patient records) from one location to another.
Why Telehealth / Telemedicine?

By moving information rather than people, telemedicine promises to enhance health care while dismantling the barrier to where and when medical services are provided.

Imagine people having access to medical care regardless of where they live!
Telemedicine Clinical Applications

- Pediatrics
- Neurology (Telestroke)
- Pathology
- Cardiology
- Oncology
- Dermatology
- Teleophthalmology
- Mental health/Psychiatry
- Teletrauma
- Endocrinology/Diabetes
- Diabetes
- Primary care
- Disaster preparedness
- Translation Services (translation services for spoken and sign language)
Solutions for all Healthcare Environments

- **Desk Top** (Physicians, Administrators, Educators, Patients Homes)
- **Group Settings** (Board Rooms, Education Centers, Conference Rooms)
- **Mobile** (Patient Rooms, Emergency Room, Remote Site Applications.)
Medical Education

Continuing Medical Education (CME’s)
- Doctors, Nurse Practitioners and Physician Assistants

Continuing Education Units (CEU’s)
- Nurses and allied health professionals

Professional Development Courses
- Internal training (Safety, policy…etc)

Patient Education
- Real time or through video streaming
Healthcare Security

The ability to secure confidential material transported over Polycom’s video, audio or data technology is key to implementing many applications.

*Polycom provides standards based embedded encryption in order to facilitate a high level of security by organizations for patient confidentiality regardless of network type.*

AES provides 128-bit encryption that in turn bolsters an organizations ability to satisfy this requirement.
Challenge:

- Provide clinical services to 168,000 inmates across Texas and to patients in a variety of healthcare settings

Solution:

- By use of Polycom Technology, UTMB provides over 5000 telemedicine consults per month to inmates and private organizations across Texas
Longitudinal Telemedicine Patient satisfaction Primary Care

Telemedicine Equal to In-Person

Patient Grouping

- Far >25m: 90
- Long 13-24m: 92.6
- Inter 7-12m: 88.5
- Near 1-6m: 95.6
- New: 93.6

Change Difference in % Positive Agreement from Base Visit

- Far >25m: -3.6
- Long 13-24m: -1
- Inter 7-12m: -5.1
- Near 1-6m: 2
- New: 0

N= 880 Avg. # of visits= 11.7

*University of Texas Medical Branch, ATA April 2008*
Recommendation of Telemedicine to Others

Would Recommend Telemedicine to Others

Patient Grouping

- Far >25m: 92.5%
- Long 13-24m: 96.3%
- Inter 7-12m: 92.3%
- Near 1-6m: 93.3%
- New: 95.5%

*UTMB- 2006
New York Cardiology Association
Classifications Following Telecardiology Consults

*University of Texas Medical Branch- 2006 (Dr. Michael Davis, Dr. Alex Vo)
ER Visits (Preliminary Data)

Timeline

1 year prior to 1st Telemedicine visit

1 year after 1st Telemedicine visit

6 months 6 months 6 months 6 months

16.6% 63.5% 17.1% 2.8%

1st Telemedicine Visit

*UTMB- 2004
Thank You!

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Questions?