

Telehealth 101

The Basics of Telehealth and Telemedicine

South Central Telehealth Resource Center



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The presenter has no disclosures.

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Part of:

Institute for Digital Health & Innovation



• Located in Little Rock, Arkansas

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- Serves Arkansas, Mississippi, and Tennessee
- One of 12 regional centers funded by the Office for the Advancement of Telehealth (HRSA)



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SWTRC	SCTRC	MATRO
PBTRC	TexLa	SETRC



In this session, we will:

- Define basic definitions
- Discuss benefits
- Describe potential applications
- Investigate technology
- Identify ways to increase knowledge

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The Basics

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Telemedicine is part of the solution!





Telehealth



"The use of technology to deliver health care, health information or health education at a distance." ~ www.hrsa.gov/telehealth/



Telemedicine

"The use of medical information exchanged from one site to another via electronic communications to improve a patient's clinical health status."

~ American Telemedicine Association









Jennifer's Story: A Telemedicine Tale



Telemedicine Delivery Methods

Live (synchronous)

Store and Forward (asynchronous)

Remote Patient Monitoring

mHealth (mobile health)



Live (synchronous)

Originating Site

Location of Patient

Video + Audio Imaging

Distant Site

Location of Clinician









Store and Forward (asynchronous)

Originating Site Location of Patient



Digital or Video Imaging



Distant Site

Location of Clinician





Remote Patient Monitoring (RPM)





Long Reach

Wireless devices for remote patient monitoring





Remote Patient Monitorin

hi mommy!!!





Mobile Health (mHealth)



Mobile Health is the provision of health care services and personal health data via mobile devices (also known as mHealth)



Who is Interested in Telehealth & Telemedicine?

- Providers
- Patients
- Clinicians
- Administrators and Directors
- Community Leaders



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Where you live should not determine whether you live or whether you die.

~U2 'Crumbs From Your Table'







Review the Basics

Telehealth

"The use of electronic information and telecommunications technologies to support long-distance clinical healthcare, patient and professional health-related education, public health and health administration." "www.hrsa.gov/telehealth

Where you live should not determine whether you live or whether you die.



Live (synchronous)

Originating Site (patient location) communicates live via audio and video with Distant Site (Provider/Clinician location).

Store and Forward (asynchronous) Images are recorded at an Originating Site (patient location) and accessed at a Distant Site (Provider/Clinician location).

Remote Patient Monitoring

Digital technologies are used to collect and transmit data between a patient and a health care provider for assessment purposes.

Telemedicine

"The use of medical information exchanged from one site to another via electronic communications to improve a patient's clinical health status."

~ American Telemedicine Association

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The Benefits





Save Travel and Time Expenses



- For the provider or clinician in a multi-site practice
- For the patient living in an urban or underserved areas



Increase Access to Health Care Providers





Broader Access to Specialists and Sub-Specialists

Hand Consultations | OB | eICU | Psychiatry | Cardiology

- Connects patients to appropriate specialists
- Promotes coordination of care
- Can reduce errors
- Can improve quality of care





Support for the Local Community

- Increases clinic access for patients
- Enhances a rural clinic's reputation
- Keeps revenue in the community (ex: RX and groceries)





Review the Benefits

Increases Provider and Clinician Access for Remote Patients

Saves Travel and Time Expenses Supports the Local Community Terms to Know:

Originating Site – Location of Patient

Distant Site – Location of Clinician

Provides Broader Access to Specialists Provides Broader Access to Sub-Specialists Telemedicine Appointment Reminder!

Dr. Martin on <u>Tuesday</u> At <u>10 a.m.</u>



Potential Applications





Categories for Telehealth Applications



- Clinical
- Educational
- Administrative



Clinical Applications

- Trauma
- High-Risk OB/GYN
- Dermatology
- Diabetic Retinopathy
- Mental Health
- Tele-ICU
- Pediatrics
- Burn
- Telestroke



Areas of Growth

- Schools
- Work Places
- Language Interpretation
- Home Health
- Prisons
- Dentistry



Education

- Distance Learning
- Hands-On Virtual Training
- Research
- Community Education





Administrative Applications

- Virtual Meetings
- Multi-Location Interviews





Review Potential Applications

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Telemedicine Applications





Educational

Administrative





Telehealth Technology




Telehealth and Telemedicine Technology



Non-Clinical

Carts



Clinical Cart



- HD Video Camera
- Monitor
- Microphone
- Encryption Software
- Peripheral Connection

Non-Clinical Cart



- HD Video Camera
- Monitor
- Microphone
- Encryption Software



Peripherals







Desktop Unit





Room System





mHealth Devices

- Mobile Phones
- Tablets



Wearables





mHealth Devica





Is a wearable device or health-related app considered HIPAA compliant?

If the device is purchased by the consumer, data collected with the device is generally not a HIPAA covered entity, which means the data collection is not protected under the law.

If a patient receives the wearable device through their hospital or provider, the health care data collected by the device is considered protected health care information (PHI) and is safeguarded under HIPAA.



It is important to understand the laws in the state where the patient lives. Each state can adopt its own laws regarding the collection of health care data.



HIPAA Compliant

- HIPAA regulations are followed as if consultation is taking place face-to-face
- Encryption software helps to protect a patient's health data



Encryption Software

PC to PC

Cisco Jabber

Direct-to-Consumer Market



- American Well
- My Doc On Call
- Specialist on Call



Making the Connection

Point-to-Point

- Similar to making a phone call
- No set up time



Bridge – Multi-Point Control Unit (MCU)

- Similar to a virtual meeting room
- Links multiple sites to a single conference



Review Telehealth Technology

Technology Components



- Clinical Cart
- Non-Clinical Cart
- Desktop Unit
- Room System
- mHealth
- Peripherals

Connect

- Point-to-Point
- Bridge

Encryption Software

- PC to PC
- Direct-to-Consumer







Increase Knowledge





Website



- Free Telehealth Courses
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Questions?





Thank you! info@learntelehealth.org 1.855.664.3450

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