

USING TELEMEDICINE TO MEET THE NEEDS OF THE ARKANSAS TBI POPULATION

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Learning Objectives:

- Describe the basics of telemedicine
- Summarize case studies
- Discuss how telemedicine is being used to meet needs within the TBI community in Arkansas
- Analyze a mock telemedicine clinic visit

The images and examples of telehealth equipment used in this presentation are for illustrative and instructional purposes only and are not intended to endorse any specific product or service. We have no disclosures.

Kim Lamb, MS

The Basics of Telemedicine



Telehealth

“The use of technology to deliver health care, health information or health education at a distance.” ~

www.hrsa.gov/telehealth/



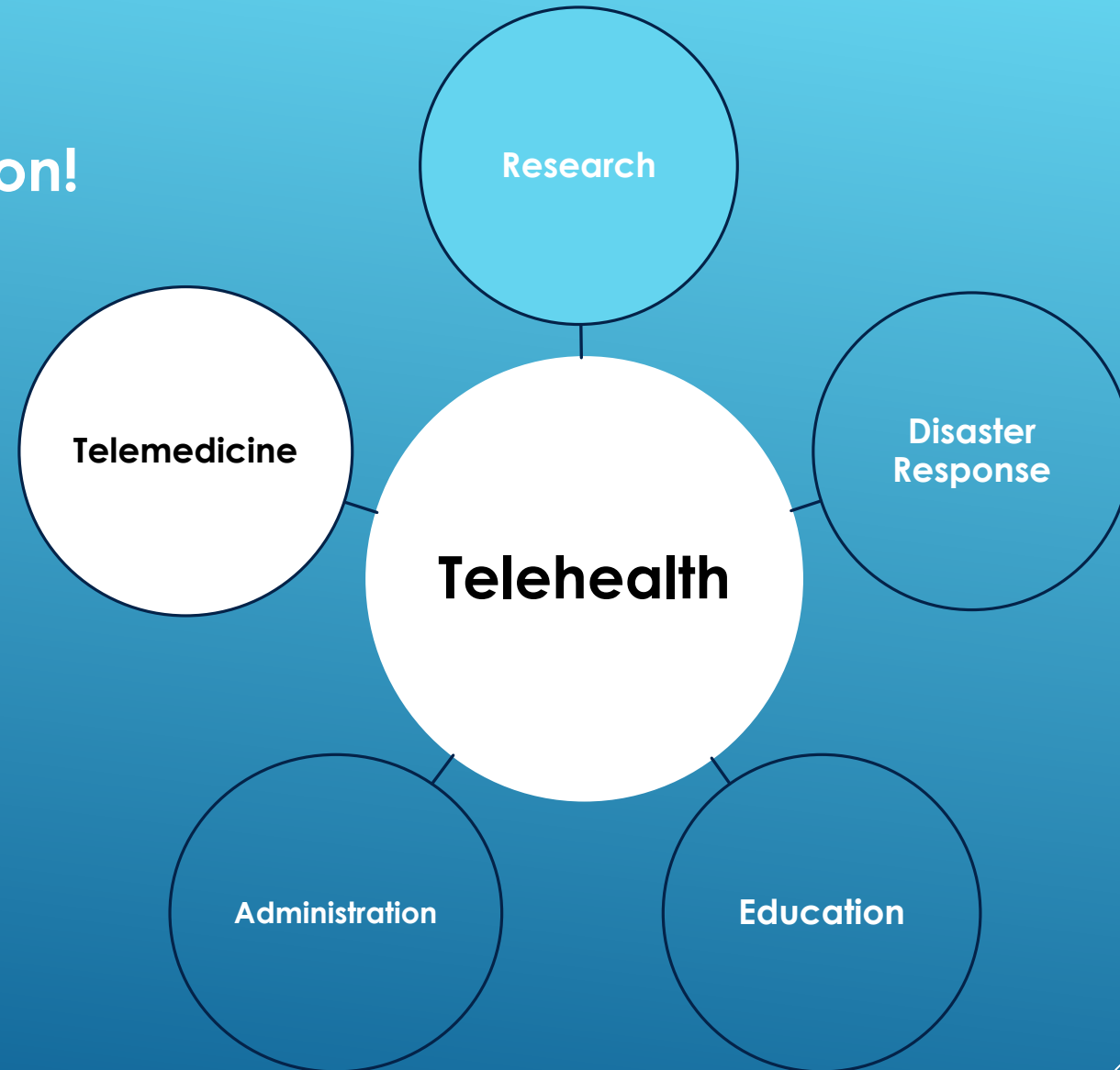
Telemedicine

“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 (ATA)



**Telemedicine
is part of the solution!**



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

~U2 'Crumbs From Your Table'



Telemedicine Delivery Methods

Live (synchronous)

Store and Forward (asynchronous)

Remote Patient Monitoring

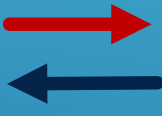
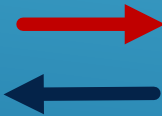
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Live (synchronous)

Originating Site
Location of Patient

Video + Audio
Imaging

Distant Site
Location of Clinician

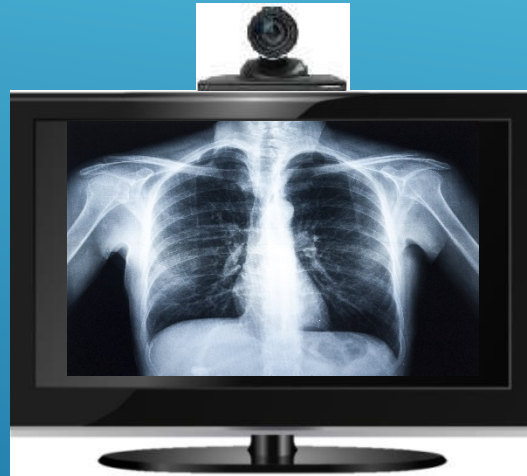


Store and Forward (asynchronous)

Originating Site
Location of Patient



Digital or Video
Imaging



Distant Site
Location of Clinician

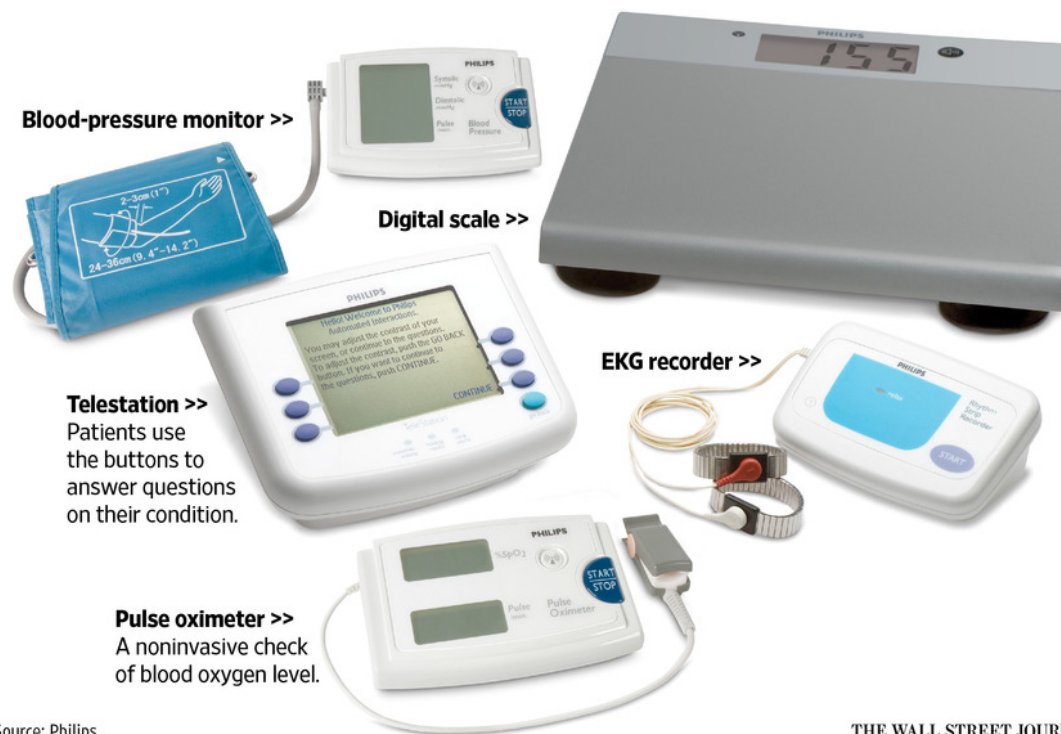


Remote Patient Monitoring (RPM)



Long Reach


Wireless devices for remote patient monitoring



Source: Philips

THE WALL STREET JOURNAL

Benefits

- For the provider or clinician in a multi-site practice – see more patients, reduce travel time
 - For the patient living in an urban or under-served area – access to specialists and reduced travel time
 - Broader access to specialists and sub-specialists
 - Connects patients to appropriate specialists
 - Promotes coordination of care
- 

Telehealth and Telemedicine Technology Components



Clinical/
Non-Clinical
Carts



Desktop Unit



Room
System



mHealth
(Mobile Health)

Peripherals



Encryption Software

PC to PC

- Cisco Meeting

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

HIPAA Compliant

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

Categories for Telehealth Applications

- Clinical
- Educational
- Administrative

Clinical Applications

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

Areas of Growth

- Schools
- Work Places
- Language Interpretation
- Home Health
- Prison Services
- Dentistry
- Mental Health
- Primary Care

Education

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



Administrative Applications

Virtual Meetings
including multiple
locations



TBI Telemedicine Initiatives in Arkansas

- TRIUMPH Call Center
- TBI Teleclinics
- Regional Brain Injury Workshops

Check out the Brain Waves Newsletter

TelehealthResourceCenters.org



TTAC
TelehealthTechnology.org
National Telehealth Technology Assessment Resource Center

Center for Connected Health Policy
The National Telehealth Policy Research Center

2 National Resource Centers

NRTRC	gpTRAC	NETRC
CTRC	HTRC	UMTRC
SWTRC	SCTRC	MATRC
PBTRC	TexLa	SETRC

12 Regional Resource Centers

Terri Imus, RN-BSN

Serving the TBI Population
through Telemedicine



When can Telemedicine be a solution for the TBI Population?


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What are the benefits to patients?

- Cost savings
 - Increases quality of care
 - Provides greater access to specialists and sub-specialists
 - Improves compliance for making appointments due to reduced obstacles
 - Improves delivery of services
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Benefits

- Can reduce errors
 - Can improve quality of care
 - Increases clinic access for patients
 - Enhances a rural clinic's reputation – services offered
 - Keeps revenue in the community (ex: RX and groceries)
- 

Understand the Telehealth Laws and Requirements for Your State

Telehealth policy for every state is available at the Center for Connected Health Policy website –

<https://www.cchpca.org/>

Center for Medicare and Medicaid Services

- ▶ https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/downloads/TelehealthSrvcsfctsh.pdf?utm_campaign=2a178f351b-EMAIL_CAMPAIGN_2019_04_19_08_59&utm_term=0_ae00b0e89a-2a178f351b-353229765&utm_content=90024810&utm_medium=social&utm_source=facebook&hss_channel=fbp-372451882894317



Arkansas passed a parity law in 2015

The law was revised in 2017

One of 41 states with a telemedicine parity law

Where to start:

- Understand the telehealth laws in your state
 - Find an expert
 - Identify a champion
 - Identify cost
 - Set goals with timelines
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START SMALL

DEVELOP A BUSINESS PLAN

DETERMINE SERVICES THAT ARE NEEDED

MEET OFTEN WITH PLANNING GROUP

CHOOSE YOUR TECHNOLOGY PARTNER



- **By 2020 the rate of growth for telemedicine will exceed 18%**
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QUESTIONS?

[HTTPS://IDHI.UAMS.EDU/PROGRAMS/TRAUMA-TELEMEDICINE-PROGRAMS/TBI-STATE-PARTNERSHIP-PROGRAM/](https://idhi.uams.edu/programs/trauma-telemedicine-programs/tbi-state-partnership-program/)

THANK YOU!

UAMS[®]

Institute for Digital
Health & Innovation



TBI SPP

Traumatic Brain Injury
State Partnership Program

