Telehealth 101

The Basics of Telehealth and Telemedicine

South Central Telehealth Resource Center







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The presenter has no disclosures.

Disclaimer

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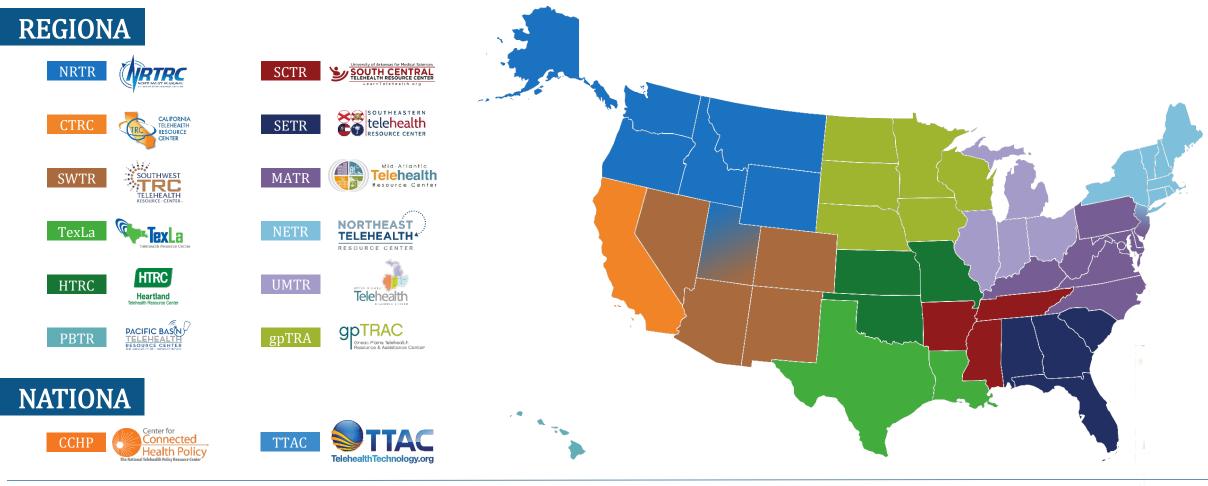








Funded by the U.S. Health Resources and Services Administration (HRSA), The National Consortium of Telehealth Resource Centers (NCTRC) consists of 14 Telehealth Resource Centers (TRCs). As a consortium, the TRCs have an unparalleled amount of resources available to help virtual programs across the nation, especially within rural communities. Each TRC is staffed with telehealth experts to who are available to provide guidance and answer questions. As telehealth continues to gain more visibility and recognition in healthcare, the TRCs will remain positioned to provide assistance for all.









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What services do TRCs provide?

The National Consortium of Telehealth Resource Centers is a collaboration of 12 regional and 2 national Telehealth Resource Centers (TRCs). As a federally funded program, TRCs assist health care organizations, networks, and physicians/health providers in implementing cost-effective telehealth programs.

We also assist with:

- Equipment
- Policy
- Practice Guidelines
- Program Development
- Business Models
- Much more!







What is Telehealth? - Terminology

You'll often hear Telehealth and Telemedicine. These terms are sometimes used interchangeably. What's the difference?

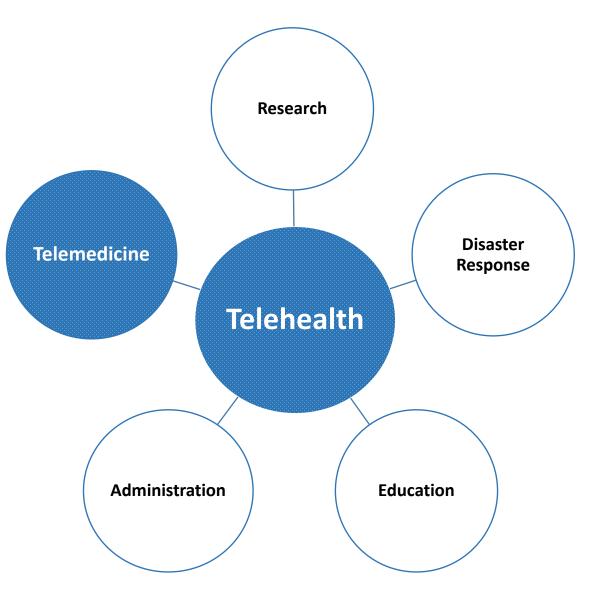
- Telehealth: Telehealth is an umbrella term, which includes telemedicine and other modalities of communication. It encompasses a broader spectrum of healthcare delivery.
- Telemedicine: Telemedicine is direct clinical care provided from a distance using electronic communication to provide/support clinical care.







Telemedicine is part of the solution!

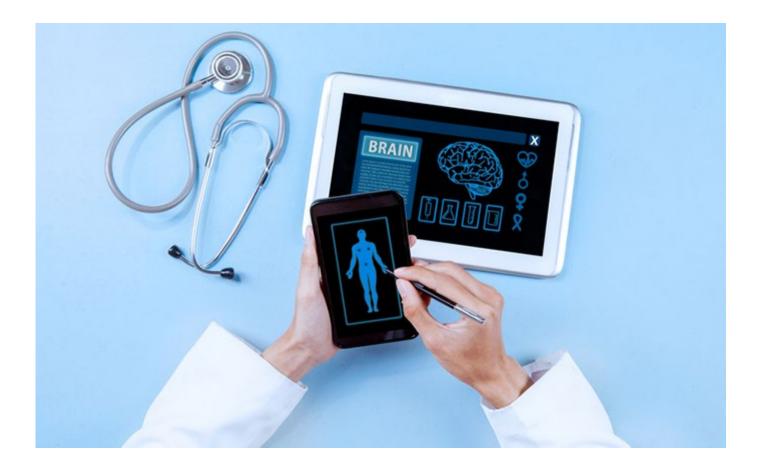








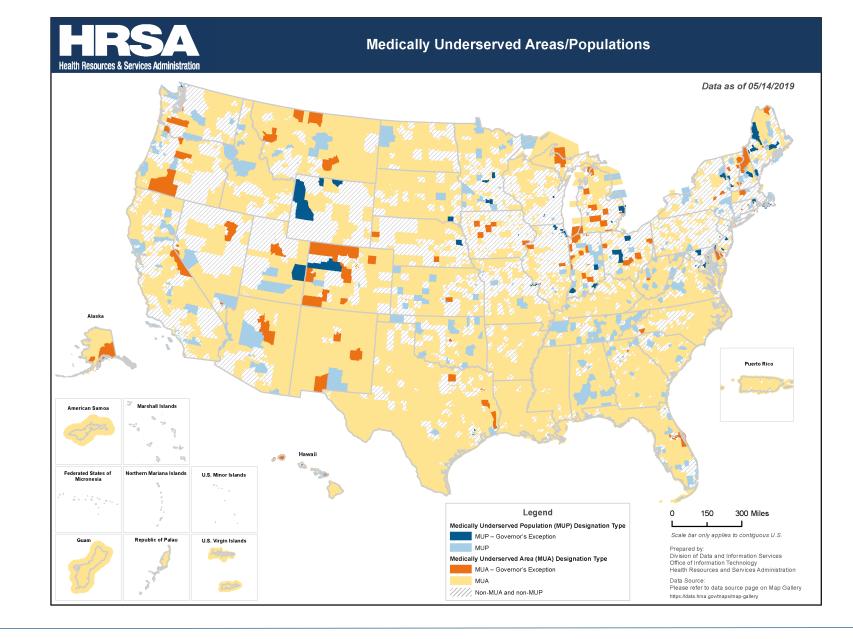
Immerging Vernacular: Digital Health

















What is Telehealth? - Modalities

There are 4 primary modalities of telehealth recognized by the NCTRC:

- 1. Synchronous: A term used to describe a live, interactive communication because the transmission of information among parties is happening at exactly the same time period. This is also known as "live" or "interactive" telemedicine.
- 2. Asychronous: A term used to describe "store-and-forward" transmission of medical information. The information is often stored from one platform to another for later review by provides. This is also known as "store-and-forward".
 - a. eConsult: eConsult is a sub-category of "store-and-forward". eConsult is used to classify consultations between providers, often between a primary care physician and a specialty provider, to assess and determine a care plan for patients.
- 3. Remote Patient Monitoring (RPM): RPM utilizes technology to collect medical and other forms of health data from patients in one location and securely transmit the information to health care providers in another location.
- 4. mHealth: Use of smart devices (phones, tablets) to access care and to provide care.







Live (synchronous)

Originating Site

Location of Patient

Video + Audio Imaging

Distant Site

Location of Clinician





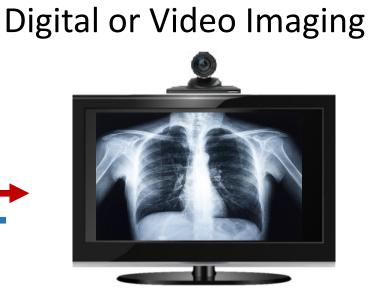




Store and Forward (asynchronous)

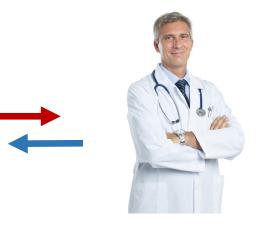
Originating Site Location of Patient





Distant Site

Location of Clinician









eConsult

eConsult is a sub-category of "store-and-forward". eConsult is used to classify consultations between providers, often between a primary care physician and a specialty provider, to assess and determine a care plan for patients.

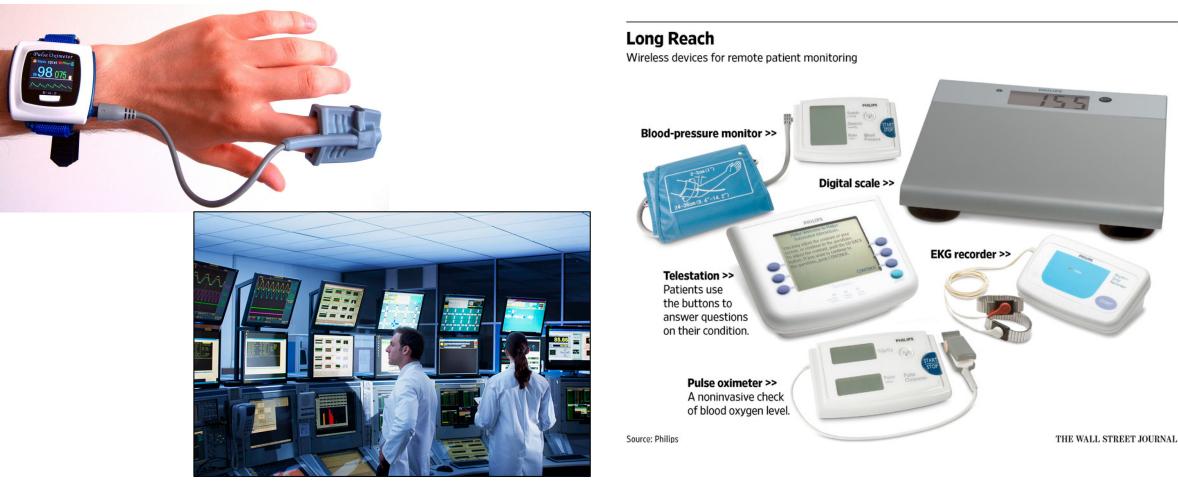








Remote Patient Monitoring (RPM)









mHealth Devices

- Mobile Phones
- Tablets
- Wearables









Benefits of Telehealth

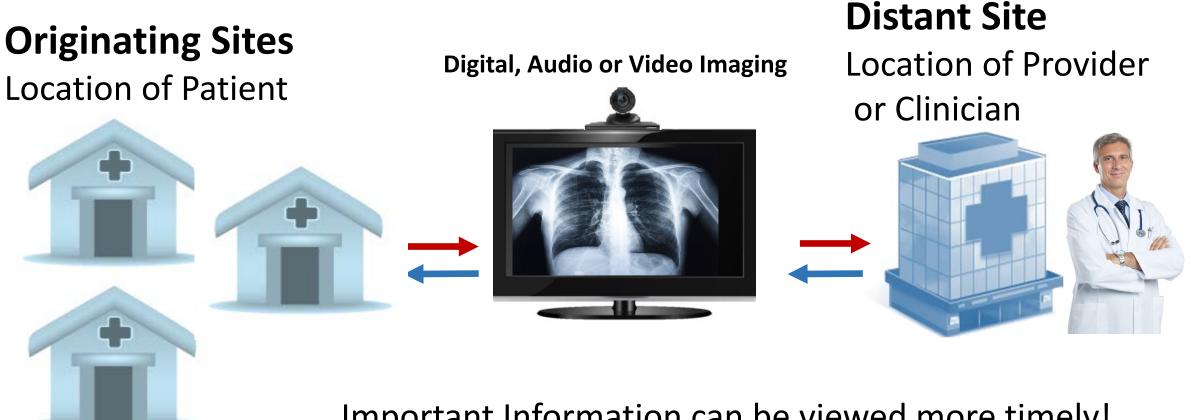
- Reduced unnecessary patient/provider travel.
- Addresses health care provider shortage.
- Patients can receive healthcare locally, especially in rural/heavily populated areas.
- Improved access to health care.
- Increased access to specialists.







Improved Access to Health Care



Important Information can be viewed more timely!







Broader Access to Specialists and Sub-Specialists

OB | eICU | Psychiatry | Cardiology

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











Applications of Telehealth

- 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











Telehealth Technology

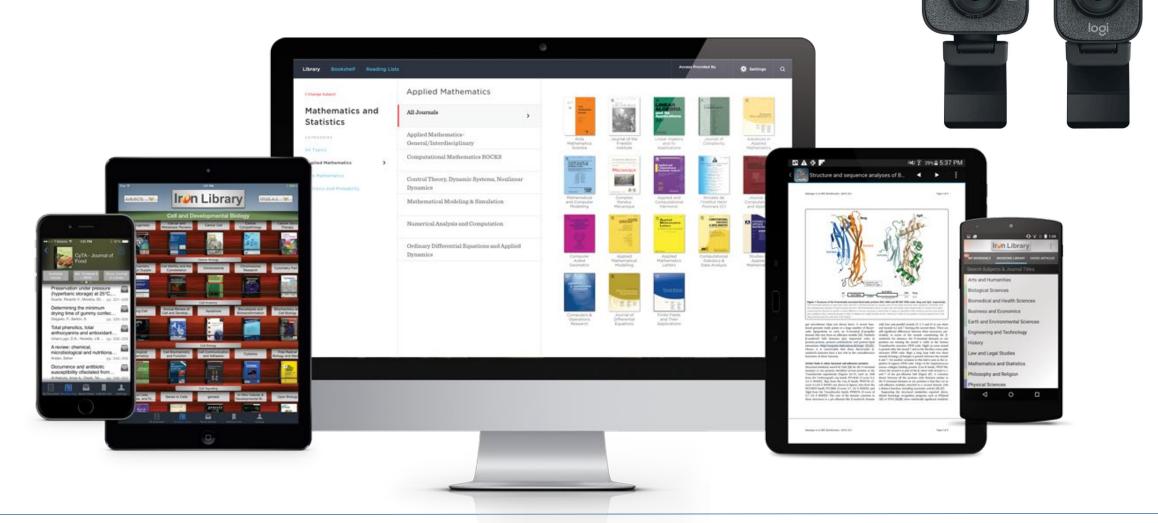
- Off-the-shelf products
- Components
- HIPAA
- Encryption
- Broadband
- Video platforms







Off-the-Shelf Devices









Telehealth and Telemedicine Technology Components



Clinical/ 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









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

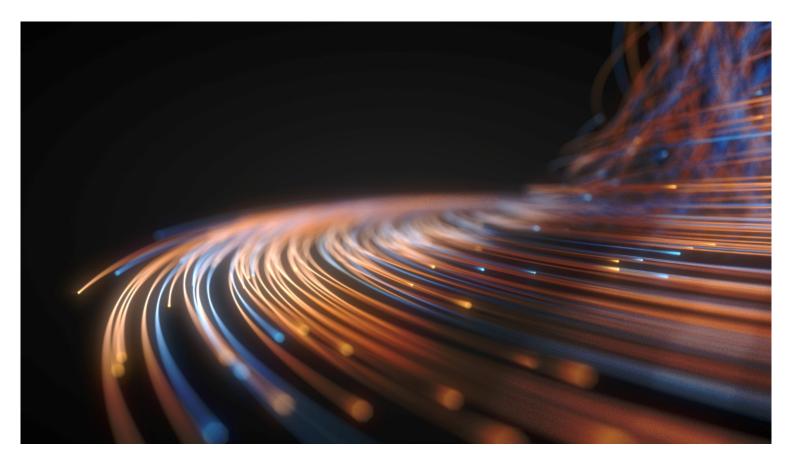








Broadband









Broadband









Video Platforms

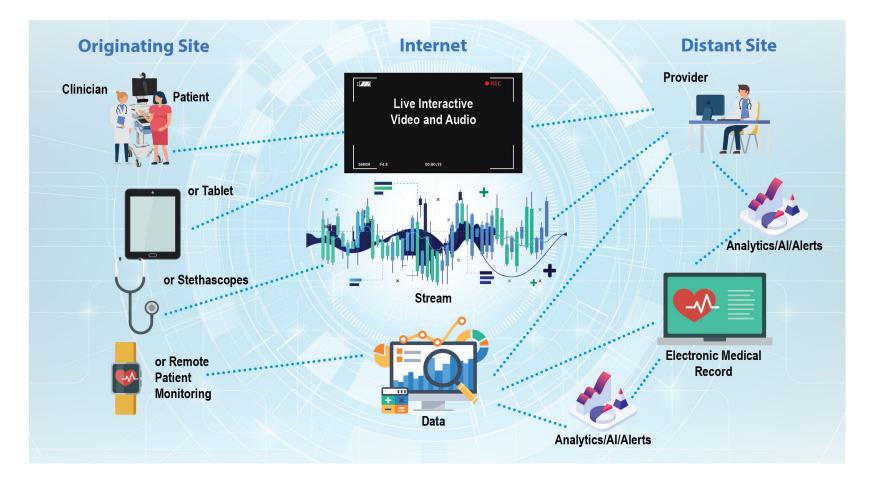








Telehealth in Action









Things to Consider

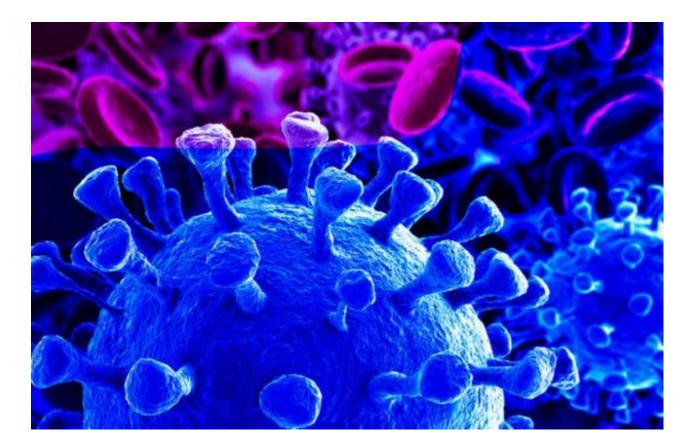
- COVID19 Coronavirus
- Where to begin?
- Payers
- Telehealth etiquette
- Champions needed







COVID19 (coronavirus)









Where to begin?

- What are you trying to accomplish?
- Start small









Know your payers









Telehealth Etiquette











Champions Needed









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Thank you!





