

2012 Webinar Series

mHealth

keeping up with an expanding definition



Garret Spargo

Telehealth Technology Assessment Center









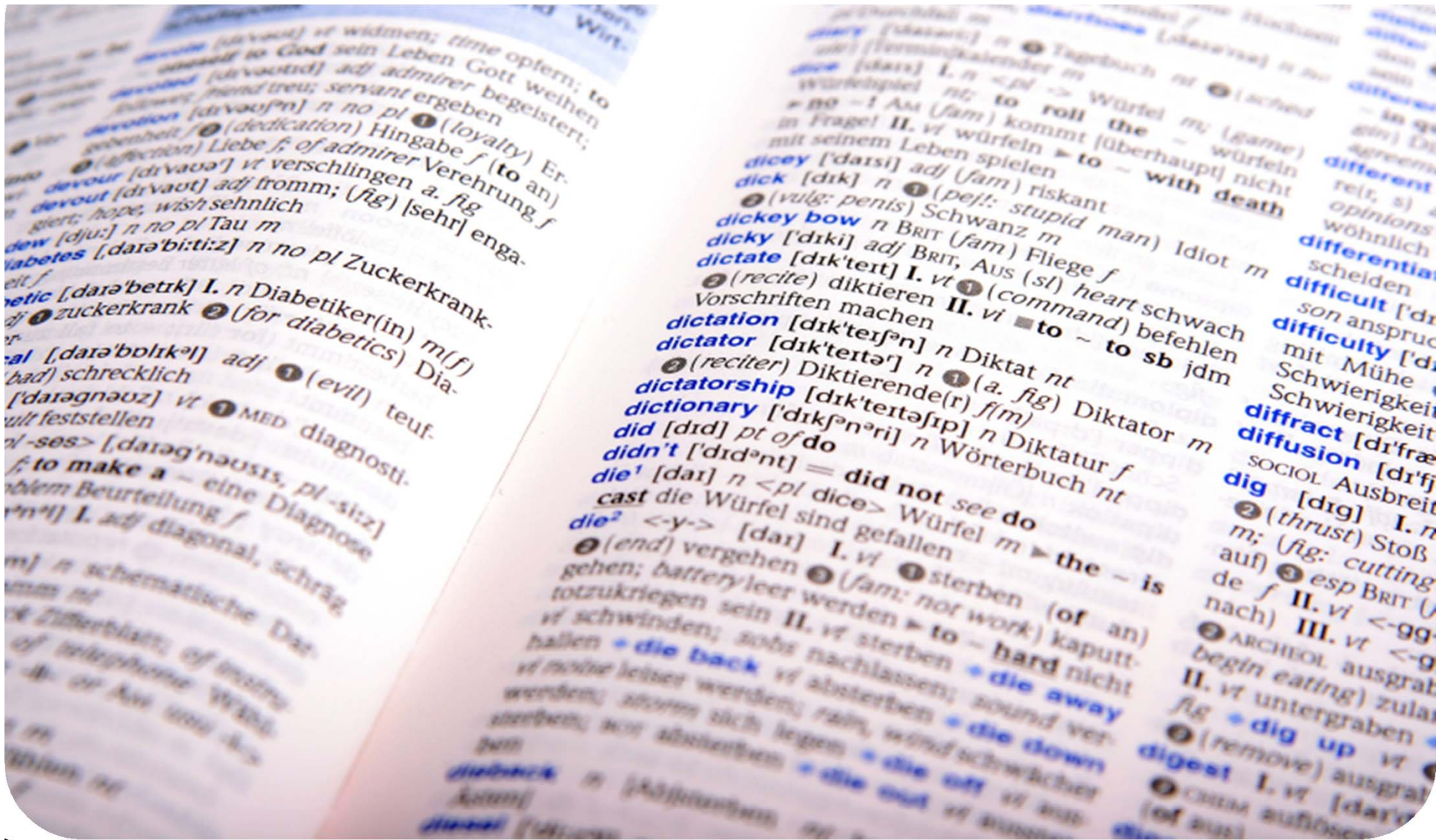






- 
- ▶ mHealth 101
 - ▶ The Market and Testing
 - ▶ The Big Issues

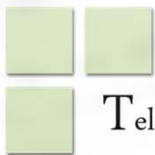
Introduction



What is mHealth?

Mobile Health, or mHealth, can be defined as medical and public health practice supported by mobile devices, such as mobile phones, patient monitoring devices, tablets, personal digital assistants (PDAs), and other wireless devices.

-mHealth Alliance



Telehealth TAC

What is mHealth?

A small form factor

Wireless network interface

Built-in data storage

Operating system that is not a full-fledged laptop or desktop OS

Applications available through multiple methods

Built-in features for synchronizing local data with a remote location

-National Institute of Standards and Technology

A small form factor

Wireless network interface

Built-in data storage

~~***Operating system that is not a full-fledged laptop
or desktop OS***~~

Applications available through multiple methods

***Built-in features for synchronizing local data with
a remote location***

-National Institute of Standards and Technology

Specialist referrals

Patient consultations

Remote patient monitoring

Medical education

Consumer medical and health information

-American Telemedicine Association

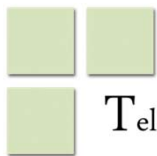
What is “health”?

mHealth: The Hardware



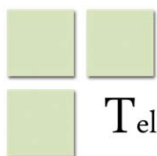
mHealth: Tablets

- ▶ Screens often 10" +
- ▶ WiFi, some 3G
- ▶ May have ports
- ▶ Hybrids and phablets
- ▶ iOS and Android are market leaders
- ▶ Windows 8 coming



mHealth: Smart Phones

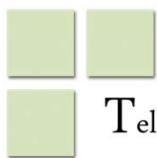
- ▶ Screens often 3–5”
- ▶ 3G and WiFi
- ▶ iOS, Android, Blackberry, Web OS, Windows
- ▶ Fewer ports



Telehealth TAC

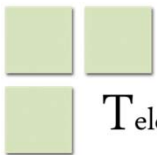
mHealth: Simple Phones

- ▶ Screens vary
- ▶ May be 3G, no WiFi
- ▶ May have “apps”
- ▶ Physical keys / keyboards
- ▶ Lower bandwidth
- ▶ SMS – Texting



mHealth: Laptops

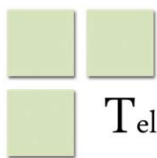
- ▶ Sizes vary widely
- ▶ WiFi, some 3G/4G
- ▶ Changes are happening in this market segment



Telehealth TAC

mHealth: Peripherals

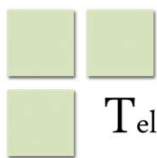
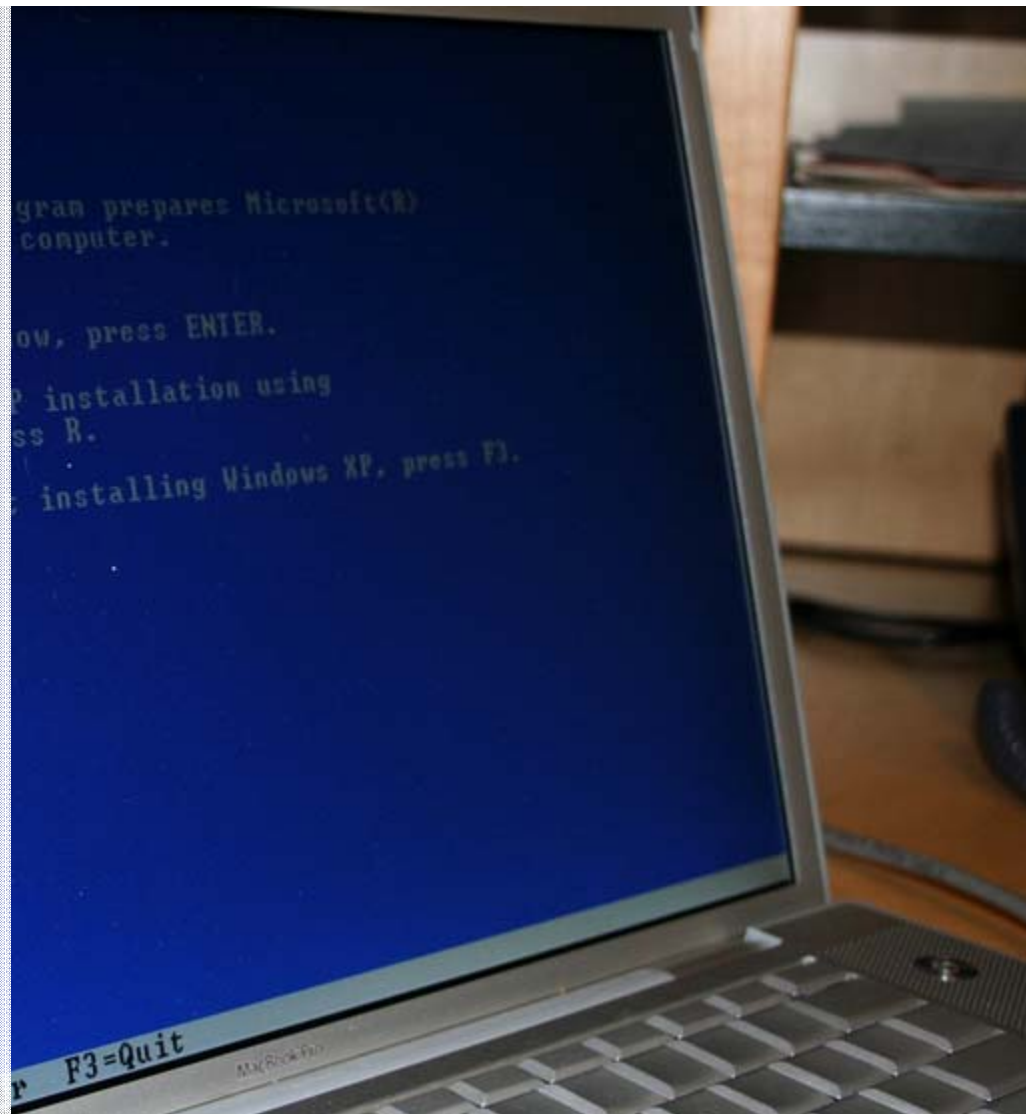
- ▶ Clinical devices
- ▶ Input devices
- ▶ Protection



Telehealth TAC

mHealth: The Software

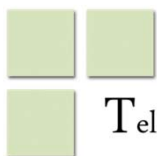
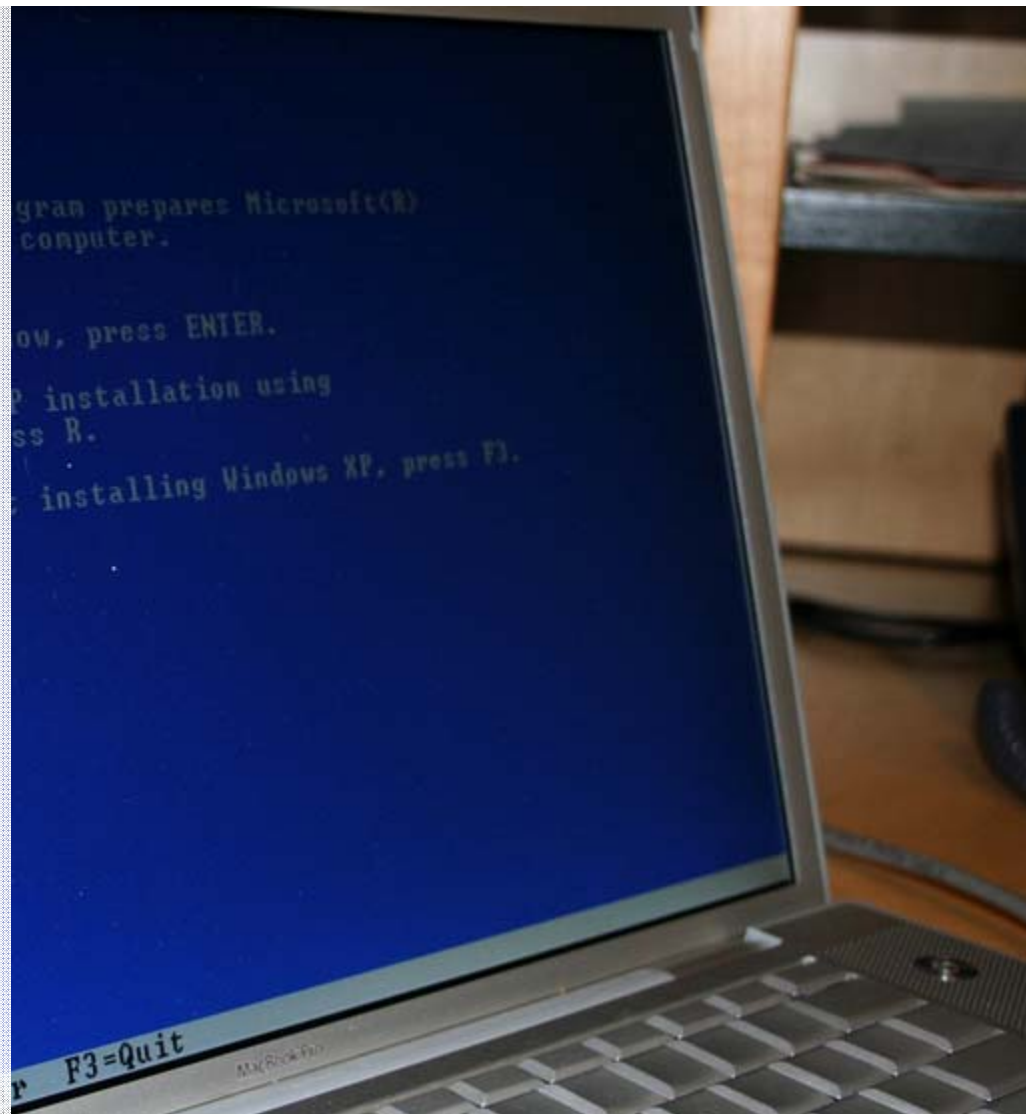
- ▶ Operating Systems
- ▶ App Stores
- ▶ Huge range in target customers, uses.



Telehealth TAC

mHealth: The Software

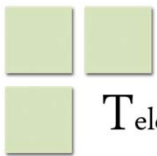
- ▶ Clinical reference
- ▶ EMR / EHR
- ▶ Epidemiology & Public Health
- ▶ Personal Wellness & Fitness



Telehealth TAC

mHealth: The Market

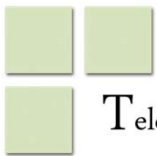
- ▶ Thousands of apps
- ▶ Hundreds of devices
- ▶ Frequent changes
- ▶ New clinical focus
- ▶ Expect rapid growth



Telehealth TAC

mHealth: Testing

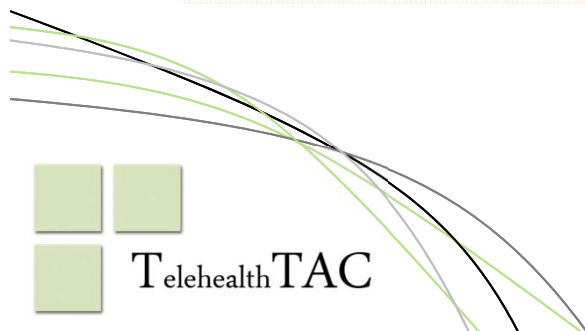
- ▶ Planning
- ▶ Establish clear goals
- ▶ Set your standards
- ▶ Review regularly
- ▶ Wash, rinse, repeat



Telehealth TAC

mHealth: The Issues

- ▶ Regulations
- ▶ Device Ownership
- ▶ Uncontrolled Devices
- ▶ Uncontrolled Access
- ▶ Uncontrolled Content





A wooden gavel is positioned diagonally across the frame, resting on a document. The document contains several paragraphs of text, some of which are partially obscured by the gavel. The background is a dark wooden surface.

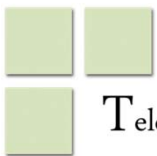
I am not a lawyer.



I am not **YOUR** lawyer.

mHealth: Regulatory

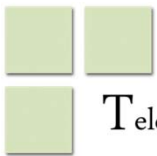
- ▶ HIPAA
- ▶ FDA – MDDS
- ▶ FDA – Hardware



Telehealth TAC

mHealth: Ownership

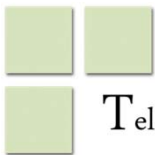
- ▶ Corporate devices
- ▶ “BYOD”
- ▶ Cost vs. Control



Telehealth TAC

mHealth: Device Control

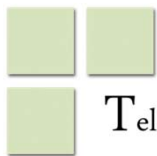
- ▶ Which devices will be supported?
- ▶ How will devices be updated / upgraded?
- ▶ Who is responsible for the devices?



Telehealth TAC

mHealth: Access Control

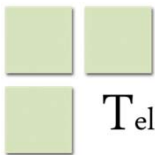
- ▶ Who can access critical systems?
- ▶ How will compatibility be ensured?
- ▶ What authentication will be required?



Telehealth TAC

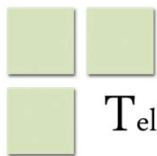
mHealth: Content Control

- ▶ Which applications can be installed?
- ▶ How will you block or filter content?
- ▶ Personal devices in professional settings, professional devices in personal settings.

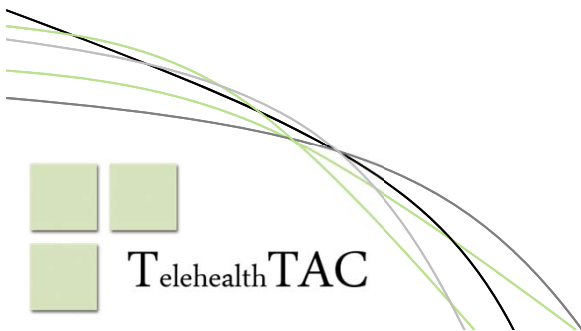


Telehealth TAC

mHealth: The Future



Telehealth TAC







www.TelehealthTAC.org

Questions?



Kirt J Beck
TTAC Director

kjbeck@TelehealthTAC.org

Main: 907.729.4703



Follow Us



TelehealthTAC

For additional information, please visit our website at www.TelehealthTAC.org

Additional resources for telehealth program development can be found at www.telehealthresourcecenters.org

Photo Credits (Creative Commons): Garret Spargo – 2-6, Jacob Bøtter – 7, Siddartha Thota – 15, Phil Roeder – 16, Kevin Driscoll – 17, Robert Donovan – 18, Alan Levine – 20, Brian Turner – 25

