Evolution of Mobile Devices in healthcare

- Started with laptops and PDAs
- Netbooks became an inexpensive option
- Tablets, smartphones and mobile devices have emerged on the market
The future of Mobile device usage

Of the world’s 4 billion mobile phones in use, 1.08 billion are smartphones and a whopping 3.05 billion are SMS enabled (250 million are not SMS enabled).

How fast is mobile internet growing?

By 2014, mobile internet should take over desktop internet usage.

Global Mobile vs. Desktop Internet User Projection, 2007 - 2015E
mHealth
healthcare mobile apps, devices & solutions

PRESENT

Smartphones are most popular among doctors after the stethoscope, with 62% of physicians now using tablets, with over half of them using it at the point-of-care.

71% of nurses are using smartphones at work.

247mn people have downloaded a health app.

40,000 medical apps now available for Tablets and Smartphones.

59% of patients in emerging market use at least one mHealth application or service, compared with 35% in the developed world.

mHealth impact in Healthcare
The smartphone revolution is under-hyped, more people have access to phones than access to running water. We've never had anything like this before since the beginning of the planet.

(Marc Andreessen)
mHealth is “the delivery of healthcare services via mobile communication devices”
- Foundation for the National Institutes of Health (FNIH)
  www.caroltorgan.com/mhealth-summit/
What’s the goal of mhealth?

To improve the delivery of healthcare!
- Improve quality and access
- Care-coordination
- Lower rehospitalizations
- Improve outcomes
- Lower infection rates
- Monitor patient status in real time

...Unrealized possibilities!
Types of mHealth technology

• Tablets
• Smart phones
• Apps
• Wearables
• Implantables
Maximize portable technology in the patient encounter

- Point of Care documentation
- Real-time care coordination
- Labs & Imaging
- Patient education
- Therapy benefits
- Access to past medical history
- Countless additional benefits
Smartphones are ubiquitous in healthcare

- Care coordination
- External device connection for testing and diagnostics
  - Blood pressure monitoring
  - Blood glucose levels
- Use of smart apps
mHealth Apps

mHealth Apps have a wide range in scope

- Online apps or on a device
- Health & wellness
- Diagnostic and testing
- Patient education
- Labs & Imaging
- Social Media integration
Wearables

Most popular in the personal fitness space

• Track and trend activity levels
• Sense & analyze information from substances emitted from transdermal source.
• Use social media to enhance user accountability. “Peer pressure” effect
Implantables have been around but are being redefined!

- Possible vision correction & enhancement
- Vital sign or blood glucose monitoring
- Relay information back to Nurse Case Managers or Physician
- Lots of diagnostic & monitoring potential
WIRELESS IMPLANTABLE MEDICAL DEVICES

- Deep Brain Neurostimulators
- Cochlear Implants
- Gastric Stimulators
- Cardiac Defibrillators/Pacemakers
- Foot Drop Implants
- Insulin Pumps
mHealth is key to Consumer driven healthcare
Technology is not the panacea for the healthcare industry…but it is part of the solution!
mHealth as part of a Technology Strategy

CIO creates technology strategy

• Align with Strategic Plan
• Balance clinical delivery needs with tech needs
• Clinician input is essential
• Evaluate *value added* mHealth options
mHealth as part of a Technology Strategy

Things to consider when evaluating mHealth solutions:
• Examine mobile strategy and potential for interoperability with EHR and enterprise systems.
• Build a patient-centric model
• Understand your care delivery model and if the solution is feasible

-adapted from FierceMobile Healthcare
3 things CMOs should consider before taking mHealth "plunge"
mHIMSS Roadmap

Guide to professionals and HCOs on the adoption of mobile and mHealth devices.
6 sections
• New Care Models
• Technology
• Reimbursement, Payment Models & ROI
• Legal & Policy
• Standards & Interoperability
• Privacy & Security
mHIMSS Roadmap

• One of the most comprehensive guides available in the industry.

• Essential tool for decision makers to consider using when adopting mHealth technology in their organization.

Download here: http://www.himss.org/mobilehealthit/roadmap
Thank you! Questions?

Contact Us!

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