

Impact of Mobility on Care Coordination

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HZINSS transforming health through IT



Today's Presenter

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Let's Have a Conversation: Why Mobile?

- The mobile health market, is expected to reach \$26 billion by 2017, according to 2013 report, Mobile Health Trends and Figures 2013-2017, from Research and Markets.¹
- A June 2013 Nielsen report indicated 3 out of 5 U.S. mobile subscribers, or more than 60 percent, own a smartphone, which is comparable to having an internetenabled computer in their pocket.
- According to industry estimates, 500 million smartphone users worldwide will be using a health care application by 2015, and by 2018, 50 percent of the more than 3.4 billion smartphone and tablet users will have downloaded mobile health applications.³
- Today, mobile devices are more powerful than ever before. A typical smartphone has more computing power than Apollo 11 did when it landed on the moon.⁴







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Drivers of Change and Managerial Approaches in Connected Health

- Key Drivers
 - Regulatory Requirements
 - Health Care Costs
 - Integrated Accountable Care
 - Emerging Technologies
 - Consumer Empowerment

- Managerial Approaches
 - Provide Information
 - Influence Decisions
 - Assess Lower Cost Options
 - Provide Access to Health System(s) and Connection to Providers
 - Retain Patients in Network
 - Support Ongoing Health Management



Emerging and Existing Topics in Health Policy

- Drivers of Change
 - Medicare Sustainable Growth Rate (SGR) Doc Fix
 - Medicare Payment Advisory Commission and Independent Medicare Payment Advisory Board (IPAB)
 - Meaningful Use Program
- Managerial Approaches Influence Decisions to Changes in Cost
 - Government Relations (GR) Review and Comment on Physician Fee Schedule
 - Maintain Active Engagement With Advocacy Groups and Internal GR



Financial Considerations



- · Drivers of Change
 - Integrated Accountable Care Organizations
 - Hospital Readmission Penalty Program
 - Private Insurance Market Self Insurance
 - Consumer Driven Disintermediation
- Managerial Approaches Provide Access to Health System(s) and Connection to Providers via Dashboards and Analytics – Watch for Expansion into Chronic and Population Health Management



Benefits of Patient Centered Coordinated Care

- Coordinated care through the implementation of an EMR (Internal Exchange of Information)
 - Up to 92% reduction in adverse drug events
 - 7.1% reduction in average length of stay
 - 50% reduction in serious medical errors
 - 30% reduction in medication waste
 - And more...



Benefits of Patient Centered Coordinated Care

".. emerging evidence is that patients who are actively involved in their health and health care achieve better health outcomes, and have lower health costs, than those who aren't."

The Patient Portal at Essentia Health (Stage 7 Primary Care EMRAM)

- 44% reduction in unnecessary admissions for high risk chronic disease patients through use of Patient Portal
- From 7% to 78% compliance on following asthma protocols
- CHF patients supplied Blue-tooth enabled weight scales
 - 42% reduction in annual admission rate

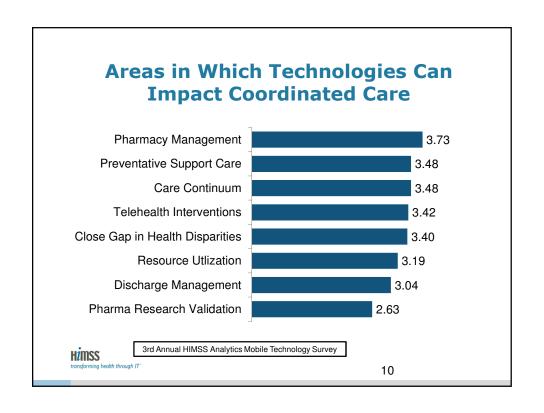
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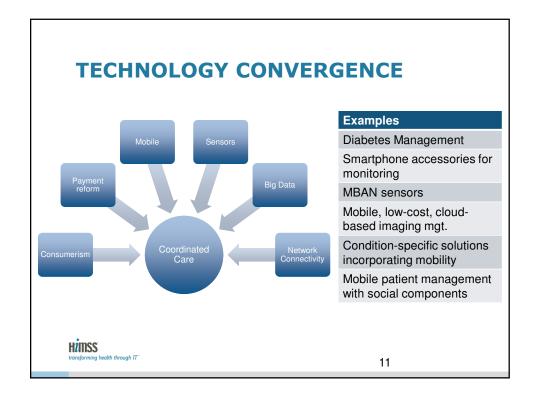
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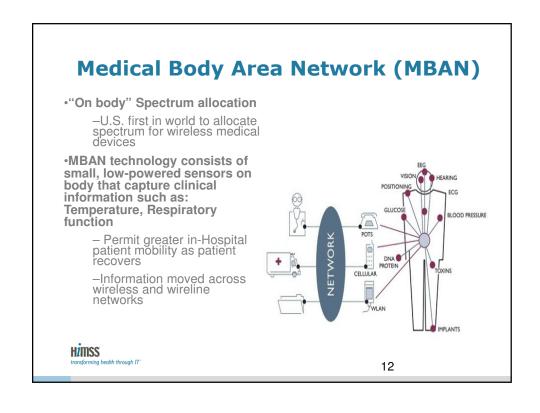
http://www.forbes.com/sites/davechase/2012/09/09/patient-engagement-is-the-blockbuster-drug-of-the-century/

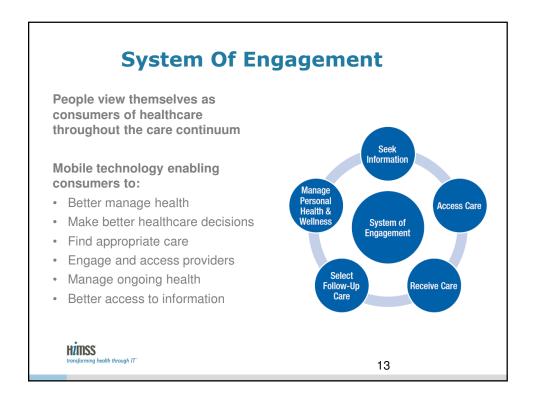
Use of Mobile Technology to Support Care -Top Ten

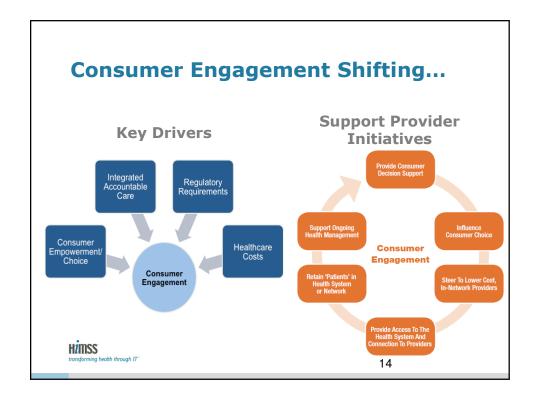
Item	Future Policy
View patient information	69%
Look up non PHI information	65%
Use for education/training	49%
Clinical notifications	41%
Secure communications regarding patients	39%
Tracking worklists	39%
Collecting data at the bedside	36%
E-prescribing	33%
Use bar code reader on device	28%
Monitor data from medical devices	26%
HINSS Analytics Mobile Technology Survey transforming health through IT	9

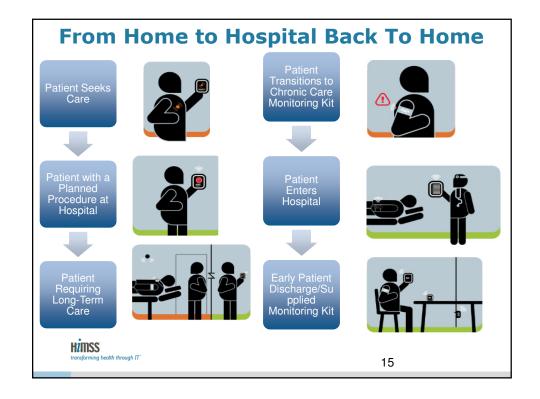












Overarching Technology Trends Requiring Bandwidth

Remote Patient Monitoring

Technologies that enable remote surveillance of patient vital functions through the use of internally and externally located patient devices.

Mobile System Access

Mobile technologies that enable remote/virtual access to current clinical systems:

- Electronic health records [EHRs]
- Picture archiving and communication systems [PACS]
- -SMART FHIR Standards



Aspects to Consider

Infrastructure

- Cellular coverage in hospitals
- Wi-Fi offloading and Managed Wi-Fi
- Guest Internet access
- How hospitals are crafting an environment to engage patients within and outside the hospital

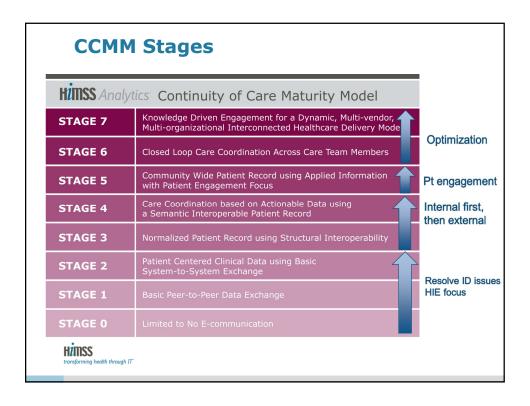
Emerging Opportunities

- How to assess and plan for new technologies
- Address issues of workflow and satisfaction
- $-\mbox{ How Meaningful}$ Use will play a role in healthcare delivery via mobile devices $-\mbox{ Stage 3}$



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CCMM and the Health IT Value STEPS™ **CCMM Pillars | EMRAM Davies Program** Satisfaction · Increase in overall patient satisfaction Treatment/Clinical · Improved clinical documentation Electronic · Improved claims management Information/Data Increased immunizations Prevention/ Patient Education · Increased cancer screenings S · Increased patient volume · Reduction in days accounts receivable Himss



3rd Annual HIMSS Analytics Mobile Technology Survey

- Clinicians are most likely to use technology to support patient care by either:
 - Looking up patient information; or
 - Looking up non PHI (personal health information).
- For the second consecutive year, pharmacy management topped providers' lists as the most likely use of mobile technologies, including medication reminders or medication reconciliation.



HIMSS Mobile Resources

www.himss.org/mobilehealthit

- The <u>mHealth Community</u> provides critical updates on mobile health IT policy, industry thought leadership, and the opportunity to network with stakeholders across the mHealth ecosystem.
- Monthly Open Mic (45 open mic)
 - 4th Friday of Every Month 1 PM
 - 4 facilitated questions with keynote speaker Committee discussants

Join Us

- Join us by signing on at HIMSS Member Center, selecting "other HIMSS initiatives" and mHealth Community
- Following activities and available resources at www.himss.org/mHealth
- For more information on the HIMSS mHealth Community please contact us at mHealth@himss.org

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HIMSS Mobile Resources – Case Studies

www.himss.org/mobilehealthit

Use Case Study: Geisinger Health System: Reducing Patient No-Shows

Patients missing appointments represents significant cost to providers, as well as reduces patient satisfaction and impacts quality of care. As part of its patient engagement initiative, Geisinger Health System implemented a platform to do text messaging and selected appointment reminders.

Use Case Study: Geisinger Health System: Weight Management Text Program

Patient lack of compliance to care plans is a barrier to successful chronic disease management. Geisinger Health System implemented a text message program to better engage patients and improve the quality of care

Use Case Study: Vanderbilt University Medical Center: Hand Hygiene Monitoring App According to the Centers for Disease Control and Prevention, keeping hands clean is the single most important way to prevent the spread of infection from one patient to another patient. The mobile app developed internally for tracking hand hygiene compliance at Vanderbilt University Medical Center has proven to be the right answer at the right time to effectively address this critical patient safety issue.



Continua and Personal Connected Health Alliance









Have a conversation about:

- How your organization is:
 - Communicating with patients when they are not present in your clinic.

Questions?

