



**McMaster University**  
FAMILY MEDICINE

**Patient Controlled Personal Health Record:  
Engaging and Connecting the Patient**

## Patient Centered Care

**“...care that is respectful of and responsive to individual patient preferences, needs and values, ensuring that patient values guide all clinical decisions”**

IOM. (2001). *Crossing the Quality Chasm: A new health system for the 21<sup>st</sup> century*. Washington, DC: National Academy Press.



## Imagine a Patient’s Journey

- J.B. is a 61-year-old man who is a busy lawyer and has had type 2 diabetes for 11 years, presents at an annual physical with three complaints: GERD, depression and excessive sleepiness.

*Shortly after, it is confirmed that J.B. suffers from severe sleep apnea and hypertension.*



- In hopes to get more information, J.B. consults some clinical family members.
- Searches the web to solicit more information on his condition.
- J.B. has no access to his consultation notes, lab results, referrals, etc.
- J.B.'s clinician has no access to his self monitoring data.
- Limited access to accurate information.



## What could J.B. do with a PHR?

- Share information with any member within circle-of-care
- Engage by creating goals and trackers
- Receive and monitor test results
- Secure message his care team
- Track immunizations and other health information
- Note discrepancies in his record



## McMaster PHR

- is controlled by the person who decides which parts of their PHR can be accessed, by whom and for how long
- contains information from cradle to grave
- contains information from multiple health and wellness care providers.
- accessible from any place at any time
- private and secure
- transparent (auditable)
- enables exchange of information with other health information systems and health/wellness professionals
- allows users to personalize experience with context-specific apps



## McMaster PHR

- Captures the holistic context contributing to the health of an individual:
  - Living Environment
  - Social Environment
  - Psychological Environment
- While connecting the individual to their formal health and wellness service providers:
  - Secure messaging; Appointment booking; Sharing health Information



## McMaster PHR Apps

Through the PHR, patients can subscribe to a variety of Apps to enhance their healthcare experience and management of their own health.

**Clinic Apps**

- Clinic defines services available
- Includes automatic data synchronization

McMASTER PHR

**Care Apps**

- Captures and enables **plan of care**
- Shared across full circle
- Can be prescribed

**Wellness Apps**

- Trackers
- Devices (e.g. glucometer)
- Issue-specific activities, tools and information

**Research Apps**

- Offers and enables participation in studies of interest
- Effective study tool




*"I don't know which doctor to choose. One has more friends on Facebook, but the other one just retweeted my message."*



## General Clinical Barriers to Adoption

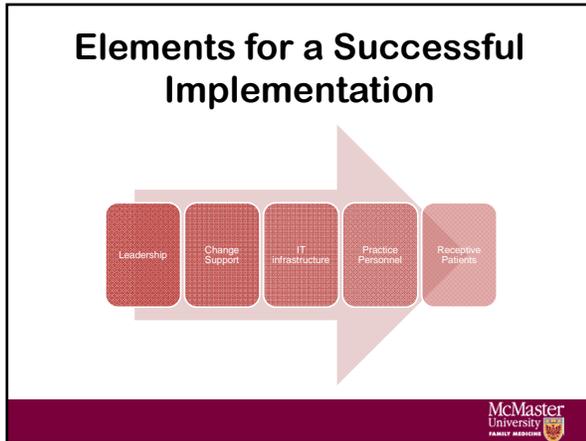
- Limitations of stand-alone software
- Revenue model of software
- Reimbursement for electronic consultation with patients
- Disruption to clinic workflow



## Recommendations

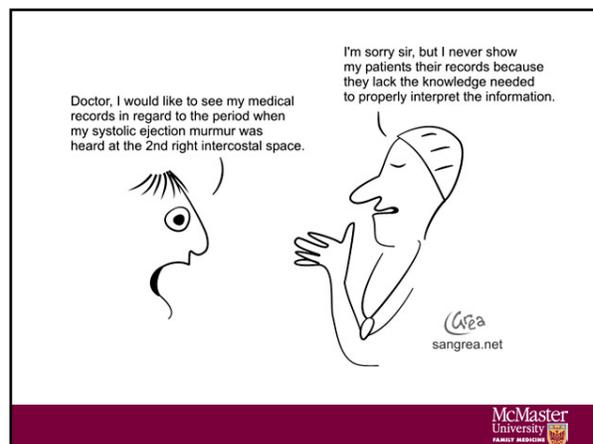
- Tight integration of PHR with EMR/HIS to enable person to connect anywhere they receive care (beyond the portal)
- Integration designs guided by provider workflow
- Clinical Education
- Patient Education

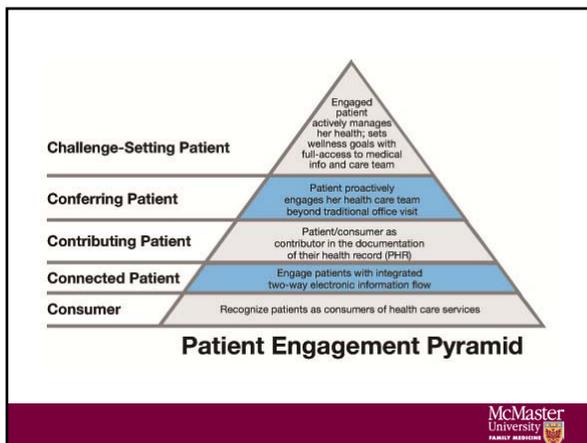




- Leadership
    - organizational level
    - practice level
    - individual level
  - Change Support
    - Champions
    - Facilitators
  - IT infrastructure
    - Technology that **supports** workflow
  - Practice Personnel
  - SMART/Receptive Patients
- 

- ## SMART Patients
- **S**elf-assured
  - **M**otivated
  - **A**ware
  - **R**esourceful
  - **T**alented
- Patricia Flahy Brennan, RN, PhD, FAAN  
 University of Wisconsin-Madison
- 





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**Dave Chase**, Contributor  
CEO of Avado:Powering the disruptive innovators reinventing healthcare

PHARMA & HEALTHCARE | 9/19/2012 @ 11:34AM | 4,068 views

**"Patient Engagement is the Blockbuster Drug of the Century"**

9 comments, 9 called-out

The insight of the year goes to **Leonard Kish**, a health IT strategy consultant, for making that statement regarding patient engagement. The corollary to this statement is a game changer: What happens when effective patient

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- ### Missing Links in the Patient-Centered System
1. Policies that support information exchange
  2. Interoperable infrastructure
  3. Engaged Providers
  4. Sustainable financial strategies
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