

CENTER FOR HEALTH INFORMATION AND DECISION SYSTEMS

Ritu Agarwal, PhD, Director, CHIDS
 Corey Angst, MBA, Associate Director, CHIDS
 301.405.0702, chids@rhsmith.umd.edu

ROBERT H. SMITH
 UNIVERSITY OF MARYLAND
 CENTER FOR HEALTH INFORMATION AND DECISION SYSTEMS

© 2006 Robert H. Smith School of Business
 University of Maryland

The Impact of PHRs

- Improved Health outcomes?
- "...the most profound impact of personal health records may lie in their ability to encourage patients to become more active in managing their own care."¹
- "'patient-empowerment' - a key theme of the Nationwide Health Information Network"²

¹Tsai, C.C., Stanton, J. Patient Participation in Electronic Medical Records. *Journal of the American Medical Association*. 2001;285(13):1766

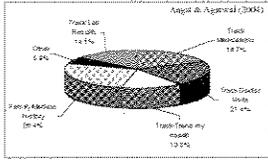
²Magyer, C., Baker, D., Buford, A., Cowles, K.E., Giving Patients Access to Their Medical Records via the Internet: The PCASSO Experience. *Journal of American Medical Association*. 2003;290:181-191

ROBERT H. SMITH
 UNIVERSITY OF MARYLAND
 CENTER FOR HEALTH INFORMATION AND DECISION SYSTEMS

© 2006 Robert H. Smith School of Business
 University of Maryland

What Do Patients Want?

- Patient-provider secure messaging¹
- Online refills
- Lab results
- Medication lists
- Disease Mngmt
- Empowerment



Feature	Percentage
Track Lab Results	18.1%
Track Medication	16.2%
Track Doctor Visits	21.4%
Track/Share my ePHR	13.2%
Share PHR with family	10.4%
Share PHR with friends	6.8%

¹Lansky, D., Wink, J., & Paddy, S. Overview of Personal Health Records. *Consulting for Health Workgroup Panel Discussion*.

²Angst, C. M., & Agarwal, R. (2004). Patients Take Control: Individual Empowerment with Personal Health Records. *Center for Health Information and Decision Systems Working Paper*.

ROBERT H. SMITH
 UNIVERSITY OF MARYLAND
 CENTER FOR HEALTH INFORMATION AND DECISION SYSTEMS

© 2006 Robert H. Smith School of Business
 University of Maryland

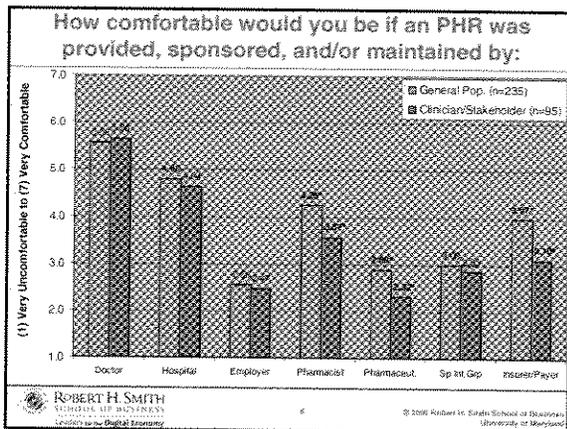
Will People Opt-Out?

- Privacy Concerns are an issue
- Will people relinquish some degree of privacy for the promise of better care?
- With properly crafted messages, most will¹

Angst, C. M., & Agarwal, R. (Working Paper) "Overcoming Personal Barriers to Adoption When Technology Enables Information To Be Available To Others." *Univ. of Maryland*

ROBERT H. SMITH
UNIVERSITY OF MARYLAND
CENTER FOR DIGITAL ECONOMY

© 2006 Robert H. Smith School of Business
University of Maryland



Defining the PHR

OPTION 1.
Paper Entry. You enter, update, and manage your health information on paper and store it in binders, folders, or filing cabinets.
 Primitive PHR



OPTION 2.
PC-based software. The software is installed on your home computer and you enter, update, and manage your health information.
 Detached PHR



ROBERT H. SMITH
UNIVERSITY OF MARYLAND
CENTER FOR DIGITAL ECONOMY

© 2006 Robert H. Smith School of Business
University of Maryland

Defining the PHR

OPTION 3.
USB Drive (Device-based). Software is installed on the USB Drive and you manage your health information, however, you can transport your entire record on the Key. Participating providers will accept the Drive and populate it through the USB port.
Chauffeured PHR



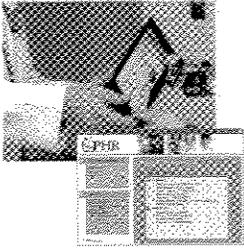
OPTION 4.
Internet Portal. The software resides on the internet and you access it using a username and password from any computer with internet access. Participating providers can populate your record and you can grant access to others.
Tethered PHR



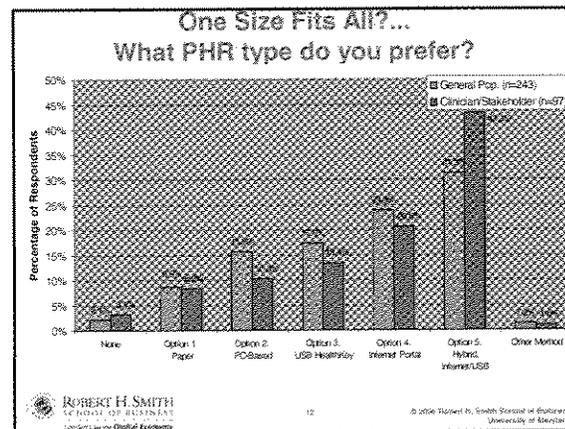
ROBERT H. SMITH
 LEADER IN THE ARTS OF LEARNING
 UNIVERSITY OF MARYLAND

Defining the PHR

OPTION 5.
Hybrid - Internet Portal with USB Drive. The software resides on the Internet and you access it using a username and password from any computer with Internet access. You can also store all of your information on the USB Drive so it is with you at all times. Participating providers populate your record through the USB port, and/or you can link to the Internet to send and receive information.
Networked PHR



ROBERT H. SMITH
 LEADER IN THE ARTS OF LEARNING
 UNIVERSITY OF MARYLAND



Research – Harris Interactive

- Two in five adults in the US keep their own personal and family health records
 - 13% keep them electronically
 - 40% planning to do so in the future
- More women (45%) than men (38%) kept records
- 58% of the over-65s filed information about their treatment
- 84% of all surveyed welcomed the PHR concept
- Out of the 13% in the Harris survey who kept electronic records, only one in thirteen kept them online at a health record website

Source: Harris Interactive, August 2004



16

© 2006 Robert H. Smith School of Business, University of Maryland

Summary

- PHRs are a crucial component of the NHIN infrastructure
- Use will gain momentum
 - Encouragement from "trusted" parties
- Issues to be resolved
 - Data protection and privacy
 - "Linkages" with overall system



17

© 2006 Robert H. Smith School of Business, University of Maryland
