NCVHS Privacy and Confidentiality Subcommittee
Hyattsville, MD
January 23, 2007

Health Record Banks Enable Privacy in Health Information Infrastructure

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Outline

- Requirements for Community Health Information Infrastructure
- Health Record Banking Model
- Privacy Implications
- Policy Recommendations

Components of a Community Health Information Infrastructure

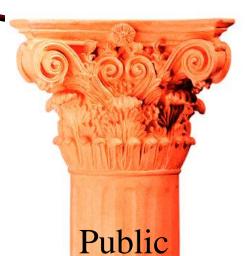




Stakeholder cooperation



Financial Sustainability



Trust

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- Most information is already electronic: Labs, Medications, Images, Hospital Records
- Outpatient records are mostly paper
 - Only 10-15% of physicians have EHRs
 - Business case for outpatient EHRs weak
- For outpatient information to be electronic, need financial incentives to ensure that physicians acquire and use EHRs
- Requirement #1: Financial incentives to create good business case for outpatient EHRs

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- Need single access point for electronic information
- Option 1: Gather data when needed (scattered model)
 - Pro: 1) data stays in current location; 2) no duplication of storage
 - Con: 1) all systems must be available for query 24/7/365; 2) each system incurs added costs of queries (initial & ongoing); 3) slow response time; 4) searching not practical; 5) huge interoperability challenge (entire U.S.); 6) records only complete if every possible data source is operational



- Need single access point for electronic information
- Option 2: Central repository
 - Pro: fast response time, no interoperability between communities, easy searching, reliability depends only on central system, security can be controlled in one location, completeness of record assured, low cost
 - Con: public trust challenging, duplicate storage (but storage is inexpensive)



- Need single access point for electronic information
- Requirement #2: Central repository for storage



Stakeholder cooperation

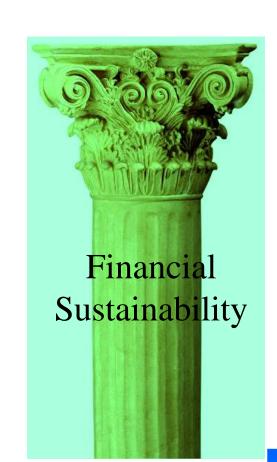


- Voluntary Impractical
- Financial incentives
 - Where find \$\$\$\$?
- Mandates
 - New | Impractical
 - Existing
 - HIPAA requires information to be provided on patient request
- Requirement #3: Patients must request their own information



- Government
 - Federal: unlikely
 - State: unlikely
 - Startup funds at best
- Healthcare Stakeholders
 - Paid for giving care
 - New investments or transaction costs difficult
- Payers/Purchasers
 - Skeptical about benefits
 - Free rider/first mover effects
- Consumers
 - 72% support electronic records
 - 52% willing to pay >=\$5/month

Requirement #4: Solution must appeal to consumers so they will pay





A. Public Trust = Patient Control of Information

Requirement #5: Patients must control all access to their information



B. Trusted Institution

- Via regulation (like banks) impractical ??
- Self-regulated
 - Community-owned non-profit
 - Board with all key stakeholders
 - Independent privacy oversight
 - Open & transparent
- Requirement #6: Governing institution must be self-regulating communityowned non-profit



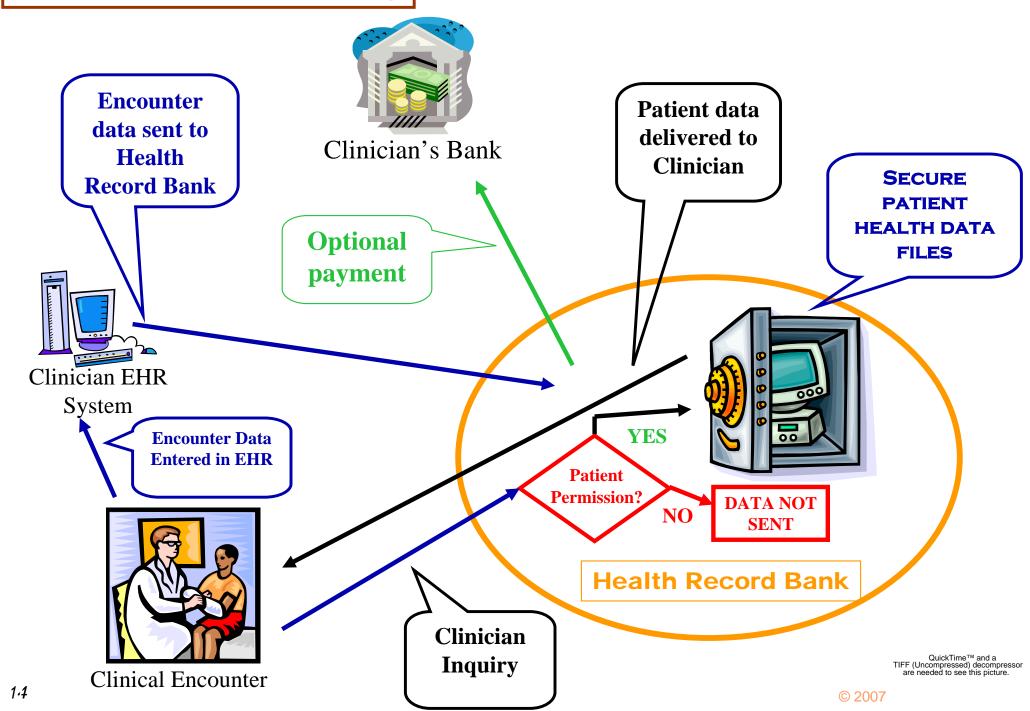
- **C.** Trustworthy Technical Architecture
 - Prevent large-scale information loss
 - Searchable database offline
 - Carefully screen all employees
 - Prevent inappropriate access to individual records
 - State-of-the-art computer security
 - Strong authentication
 - No searching capability
 - Secure operating system
 - Easier to secure central repository: efforts focus on one place
- Requirement #7: Technical architecture must prevent information loss and misuse

Health Record Banking Model

- All information for a patient stored in Health Record Bank (HRB) account
- Patient (or designee) controls all access to account information [copies of original records held elsewhere]
- Each HRB has three interfaces:
 - Withdrawal window record access
 - Deposit window receives new info
 - Search window authorized requests
- When care received, new records sent to HRB for deposit in patient's account
- All data sources contribute at patient request (per HIPAA)

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Health Record Banking



Privacy Implications

- Essential elements of privacy protection
 - Consumer control of information release
 - Each consumer customizes their own privacy policy
- Health record banks facilitate privacy through consumer control
 - Granularity of control limited to information visible at control point
 - Scattered model makes such control more difficult since only locations of information are known centrally

Policy Recommendations (1 of 2)

- Consumer has complete legal ownership and control of health record bank information
 - No exceptions needed as copies of information are elsewhere
 - Information protected from
 - Change in ownership
 - Failure of customer payment
 - Bankruptcy
- 2. All holders of electronic medical information required to provide it within 24 hours of creation at no charge (on patient request)

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are needed to see this picture.

Policy Recommendations (2 of 2)

- 3. Include health record banks as covered entities under HIPAA
 - Cover personal health information in all locations
- 4. Require independent privacy & confidentiality audits of health record banks
 - Certification of auditing entities
 - Public disclosure of audits
- 5. Require security procedures sufficient to enforce privacy & confidentiality policies

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Questions?

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