



Definitions

- Privacy right to keep things to yourself
- Confidentiality right to keep things about you from being disclosed to others
- Security protection of your personal information
- Individually identifiable health information (IIHI) any data that can be correlated with an individual
- Personal health information IIHI as defined by HIPAA Privacy Rule
- Consent (in context of privacy) written or verbal permission to allow use of your IIHI

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Personal privacy vs. the common good

- · There is a spectrum of views
 - One end holds that while personal privacy is important, there are some instances when the common good of society outweighs it, such as in bio-surveillance (Gostin, 2002; Hodge, 1999)
 - The other end holds that personal privacy trumps all other concerns (Privacy Rights Clearinghouse, 2009; see also Deborah Peel, MD and http://patientprivacyrights.org/)
 - Concerns expressed in ACLU video (ACLU, 2004) - More balanced views? - CHCF, 2008; ACP, 2009
- · Where do your views fit?

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There continue to be patient information disclosures

- Google can pick up not only patient data, but also access points to databases, which may not be well protected (Chin, 2003)
- Portland, OR Thieves broke into a car with back-up disks and tapes containing records of 365,000 patients (Rojas-Burke, 2006)
- Burke, 2006) Several episodes from VA, e.g., laptop with data of >1 million veterans, recovered without apparent access (Lee, 2006) HIMSS Analytics report (2008) found aggregated data in hospitals and healthcare facilities richest source for fraud and abuse; over 1.5 million names exposed in 2006-2007 HITECH powersering optification of bracehoes of our E00
- HTTECH now requires notification of breaches of over 500 individuals under HIPAA <u>http://www.hhs.gov/ocr/privacy/hipaa/administrative/breachnotificationrule/posted</u>

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Technology can worsen the problem

- USB ("thumb") drives run programs when plugged into USB port; can be modified to extract data from computer (Wright, 2007)
- · Personal health records based on Microsoft Access can easily have encryption compromised (Wright, 2007)
- 10% of hard drives sold by a second-hand retailer in Canada had remnants of personal health information (El Emam, 2007)

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What do other governments do?

- European Commission Directive 95/46/EC (EC, 2007)
 - Stringent rules allow data processing only with consent or highly specific circumstances (legal obligation, public necessity)
 - Countries that implement Directive 95/46/EC provide examples for how "consent" for use of information on Nationwide Health Information Network (NHIN) may proceed in US (Pritts, 2007)

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AHIMA Health Information Bill of Rights (AHIMA, 2009)

- The right to access your health information free of charge The right to access your health information during the course of treatment The right to expect that your health information is accurate and as complete as possible The right for you or your personal representative(s) to know who provides, accesses, and updates your health information, except as precluded by law or regulation The right to expect healthcare professionals and others with lawful access to your health information to be held accountable for violations of all privacy and security laws, policies, and procedures, including the sharing of user IDs and passwords The right to expect equivalent health information privacy and security protections to be available to all healthcare consumers regardless of state or geographic boundaries or the location (jurisdiction) of where the treatment occurs The right to the opportunity for private legal recourse in the event of a breach of one's
- The right to the opportunity for private legal recourse in the event of a breach of one's health information that causes harm
- See also: http://www.healthdatarights.org/

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So maybe "de-identified" data is more secure? Not necessarily

- Sweeney, 1997; Sweeney, 2002
 - 87% of US population uniquely identified by five-digit zip code, gender, and date of birth
 - Identified William Weld, governor of Massachusetts, in health insurance database for state employees by purchasing voter registration for Cambridge, MA for \$20 and linking zip code, gender, and date of birth to "de-identified" medical database
- Genomic data can aid re-identification in clinical research studies (Malin, 2005; Lumley, 2010)
- Social security numbers can be predicted from public data (Acquisti, 2009)

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Potential consequences of poor security • Rindfleish, 1997 - Patients avoid healthcare - Patients lie - Providers avoid entering sensitive data - Providers devise work-arounds

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• CHCF, 2005

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- 13% of consumers admit to engaging in "privacy-protective" behaviors that might put health at risk, such as
 - · Asking doctor to lie about diagnosis
 - · Paying for a test because they did not want to submit a claim
 - · Avoid seeing their regular doctor

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Medical identity theft

- A growing concern, emanating from general identity theft, defined as use of IIHI for obtaining access to property or services (AHIMA, 2008)
 - Victims are not only individuals but also health providers and plans as well as society at large
 - Value of medical identity information much higher than just Social Security number
- HHS report outlines approaches to prevention, detection, and remediation (2009)

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