

Describe your level of familiarity with public health data sharing laws: A Expert B. Intermediate C. Novice D. Beginner



DISCLAIMER

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Scenario: Disease Outbreak

Four new cases of hepatitis C virus (HCV) are diagnosed at a small, 100-bed hospital. It is quickly determined that all patients share a genetically similar strain of the virus, indicatin occurred in close proximity to each diagnoses occurred in close proximity to each and none of the patients had known or apparent HCV risk factors.

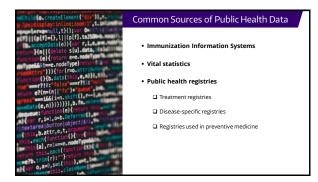
To prevent further HCV infections, the public health department came to the hospital and requested access to all patient electronic medical records to look for anyone suspected to be exposed, or a source. The hospital denied access to any patient information in the EMRs without prior patient consent.



Consider: In this scenario, is it legal for the provider to disclose the health information of these individuals?

- a. Yes public health activities like this allow providers to disclose patient data.
- **b. No** the patients have not given authorization.

PH Data Sharing Guidance How federal, state, and local public health data confidentiality laws apply to you depends on the following: • What is in the data? • Who has the data? • Who wants the data? • Why is the data being released?



National Notifiable Diseases Surveillance System (NNDSS) Allows any PH entity to voluntarily share notifiable disease-related health information with the federal government State and local laws Can require reporting of dangerous diseases to state or local health departments

How Is PH Data Used?

Disease Investigations

☐ All state (and some local) health departments have authority to investigate diseases and potential outbreaks

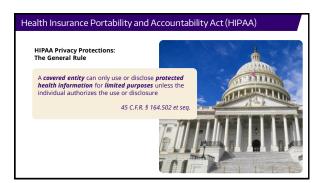
Disease Control

☐ All state (and some local) health departments have authority to *implement disease control measures*

Other Uses

☐ Many state health departments have laws to use and release data for activities like: treatment and coordination of care, partner notification or contact tracing, and public health research





Covered	Entities: To whom does HIPAA apply?
Covered Entities	Healthcare providers "who transmit any health information in electronic form in connection with a transaction" Health plans Healthcare Clearinghouses
Business Associates	Provide services on behalf of covered entities requiring the disclosure of protected health information
Hybrid Entities	Activities include "covered" and "non-covered" functions

Protected Health Information: What does HIPAA protect? Protected health information Individually identifiable health information that is transmitted or maintained by covered entity Individually identifiable health information Created or received by a covered entity and Relates to the health of an individual Identifies the individual or Reasonable to believe information can be used to identify the individual

Exceptions: When Do Covered Entities Disclose Data?

<u>Must</u> Disclose

- Individuals requesting access to their protected health information
- US Department of Health and Human Services undertaking compliance investigation, review, or enforcement action

May Disclose

- · Public health activities*
- Law enforcement
- Serious threats to health or safety
- National security
- Disaster response

HIPAA Permitted Use Exception: Pub	olic Health Activities
	A covered entity may use or disclose public health information to a public health authority: "for the purpose of preventing or controlling disease, injury, or disability, including, but not limited to, the reporting of disease, injury, vitol events such as birth or death, and the conduct of public health westigations, and public health interventions." 45 C.F.R. \$ 164.512(b)
	Image coursesy CDC

State Laws: PH Dat	a Sharing Protections
States generally have br	oad legal protections for individuals' information, including:
Vital statistics laws -	Example: Vital records information may only be released to "public agencies administering health, welfare, safety, law enforcement, or public assistance programs" "when deemed in the public interest" 410 ILCS 535/2-3
Public access laws -	Example: "Disclosure of a government record shall not constitute a clearly unwarranted invasion of personal privacy if the public interest in disclosure outweighs the privacy interests of the individual." HRS \$92E-14
Health information privacy laws	Example: A healthcare provider may not disclose individuals' health information to any other person without the patient's written authorization." MTST50-16-529, 530



State Laws: PH Information Privacy Laws

State privacy laws can dictate the following:

- What exact information can be shared with public health authorities
- What information is subject to or exempt from public records requests
- When information can be shared with other government entities
- Which government employees or agents may access information

Scenario: Disease Outbreak

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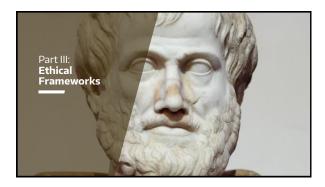
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Scenario: Disease Outbreak - Conclusions

This scenario demonstrates that we have laws which can protect the public's health and well-being. However...

- \checkmark Private health information has broad legal protection
- ✓ When private health information is shared for public health reasons, context matters
- ✓ **Individual privacy** and **public health activities** are legal distinctions, *not necessarily* ethical ones



Guidance on Public Health Ethics

- How are ethics used to identify and resolve dilemmas about what should be done?
- How does Bioethics contrast with Public Health Ethics?
- Which ethical framework is more appropriate for public health and big data?

Ethics Example: The Moral Machine

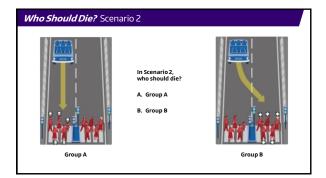
MIT's **scenario-based approach** for applying human ethics to machine intelligence decision-making, including self-driving cars

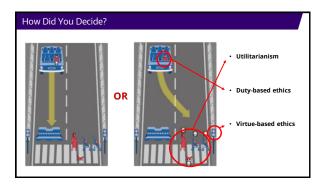


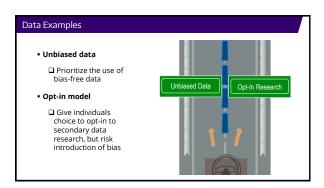


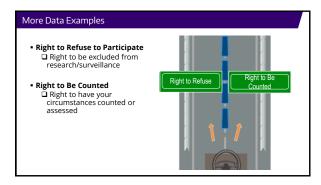
moralmachine.mit.edu

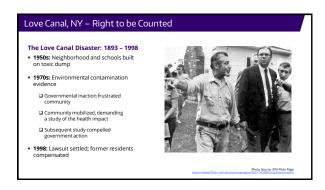
Who Should Die? Scenario 1 In Scenario 1, who should die? A. The driver B. The pedestrians Pedestrians

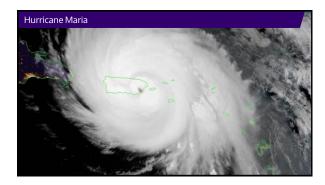




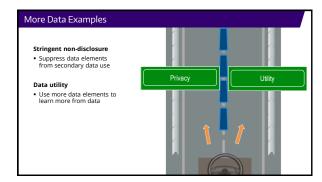


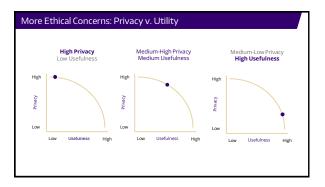


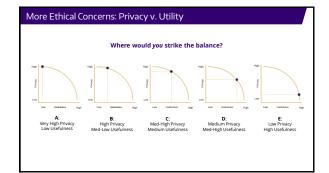




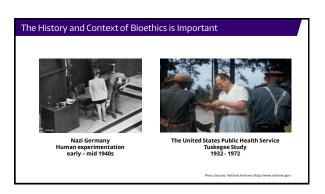












Bioethics (Belmont Report, Common Rule)

Respect for Persons

- Treat individuals as autonomous agents
- Persons with diminished autonomy are entitled to protection

- Do not harm
- Maximize benefits and minimize harms

Justice

• Who ought to receive the benefits of research and bear its burdens?

Bioethics is an Awkward Fit for Public Health

CIOMS International Guidelines for Ethical Review of Epidemiological Studies (1991)

Acknowledges the insufficiency of the bioethical model for public health



WHO Guidelines: Overview

✓ Common Good

Some benefits are fundamentally shared

- ✓ **Equity** Equitable conditions for humans to flourish
 - Unfair risk distribution may require balancing resources

✓ Respect for Persons

- When possible, involve individuals in decisions affecting them
 Engage individuals in when considering population interventions

✓ **Good Governance**• Accountability, transparency and community engagement

WHO Guidelines: Ethical Data Uses for Public Health

- Obligation to conduct public health surveillance (Guideline 1)
- Justification for collecting identifiable data (Guideline 11)
- Informed consent is not always ethically required (Guideline 12)
- Obligation to share data with public health (Guideline 14)
- Appropriate to use data for research purposes (Guideline 16)
- Inappropriate to share identifiable data with agencies likely to take action against individuals (Guideline 17)

Which Framework Should Apply?

Is the activity research or a public health activity?

 Historically, this has been a challenging distinction (partially addressed in recent Common Rule revisions)

What about big data analytics?

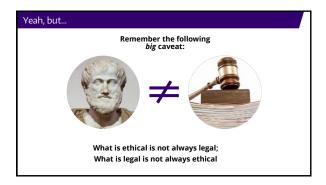
• Ongoing, systematic, data collection, and analysis of large number of individuals



Big Data Ethics Theorem

- n = Sample (of N pop) size
- N = Population size
- $BD_e(x)$ = Big data ethics applied to 'x' situation
- PH_e(x) = Public Health Ethics applied to 'x' situation
- $\lim_{n\to N} BD_e(x,n) = ?$
 - $\lim_{n\to N} BD_e(x,n) = PH_e(x)$





Action Items ✓ Data sharing practices are informed by the law and ethics. Understand the distinction! ✓ Consider which ethical frameworks guide your decision-making as a practitioner ✓ Use public health ethics for population-level data projects ✓ Refer to the WHO Guidelines (seriously...they are awesome...)



Resources	
US Depa	artment of Health and Human Services Office for Civil Rights
HIPAA an	nd Public Health Fact Sheet: w.healthit.gov/sites/default/files/12072016_hipaa_and_public_health_fact_sheet.pdf
Guideline	lealth Organization es on Ethical Issues in Public Health: wwwh.int/ethics/publications/public-health-surveillance/en/
The Mora	husetts Institute for Technology al Machine:
https://mor	ralmachine.mit.edu/