

# Consent and Stewardship: Rethinking Strategies for Sustaining Public Trust

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# ITHS

Institute of Translational Health Sciences

## *Institute for* Public Health Genetics



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**School of Public Health**

*and* Community Medicine



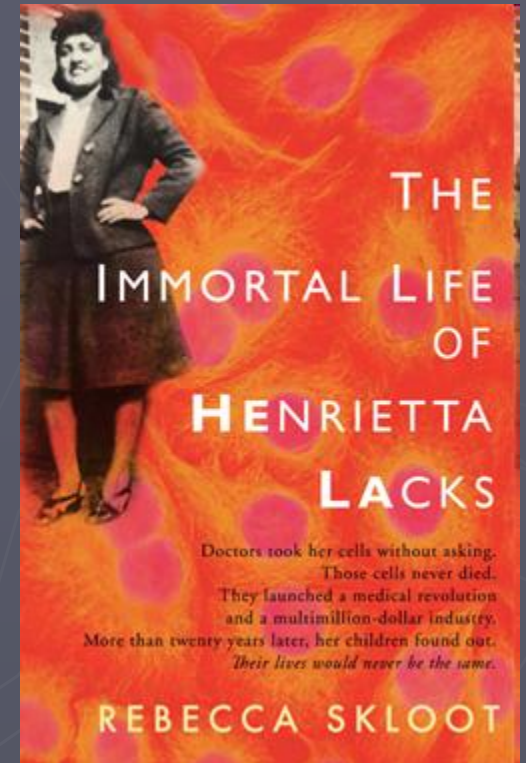
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# How to Proceed

- ▶ Thesis: Trustworthy practices in research are going to be critical to long-term success
- ▶ Problem: Regulatory and practice paradigms may no longer preserve public trust
  - § Upfront review preferred
  - § Heavy burden on consent procedures
  - § Focus on individual privacy and identifiability
- ▶ Proposed Solution: Transformed oversight and research practices are needed

# Current Public Climate for Research



"Where did you go with my DNA?" - NYT



# Lessons from these Stories?

- ▶ Regulations are the floor
  - § We may need other standards to guide us
- ▶ “Business as usual” practices can cause harm
  - § We cannot anticipate what “harm” looks like
- ▶ Engage the public
  - § Be transparent about research practices and intentions
  - § Communicate openly and clearly
  - § Ask permission before using samples if outside original scope or intentions

# TIES

Trust, Integrity, and Ethics in Science

## ► Building and Sustaining Public Trust: Lessons from Industry and Input from Community

### § Relationships

- Engage publics before starting to do a project
- Identify concerns and opportunities
- Educate about research processes, tech transfer
- Establish communication channels (bi-directional)

### § Accountability

- Develop mechanism for shared authority
- Traceable samples so participants can learn who has their samples, for what purpose
- Appreciate need for specific opt-out or withdrawal

Denver , 2005 & 2008; Yarborough et al. 2009

# Unique Features with NBS

- ▶ Collected for public health purposes
  - § If intentions change, we have to keep people informed and up-to-speed.
- ▶ Bloodspots are finite resources
  - § We have to choose carefully how they are expended.
- ▶ NBS programs are run by DOH staff
  - § If research uses and requests begin to rise, we have to take into account burden on public health agencies.

# Responsible Use of Public Resources

## ► Stewardship

- § Program-level decisions about who has access, for what purpose, relative to resource expenditure
- § Accountability for fair use, ethical practices, and follow-up with dissemination (where appropriate)

## ► Consent

- § Conveys respect by asking, inviting participation
- § Permits diverse beliefs, values, and preferences
- § Provides an opportunity for education and outreach



# Stewardship: A Governance Model

## ► Stewardship is:

- § Taking responsibility for the survival and well-being of something that is valued
- § Responsibility for taking good care of resources entrusted to one.
- § Science, art, and skill of responsible and accountable management of resources ([www.datagovernance.com](http://www.datagovernance.com))

## ► A steward:

- § Assumes responsibility for donor's intent, the manner resources are used, and the outcomes from their use (Jeffers 2001)

# Consent Options

- ▶ Community consent

  - § E.g. emergency medicine research, HapMap

- ▶ Blanket consent at birth

- ▶ Tiered consent at birth

- ▶ Waiver of consent

  - § E.g. “anonymized” datasets

- ▶ Notification with opt-out or withdrawal options

- ▶ Re-consent for each research use

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# Re-contact, Re-consent

We should explore new methods of re-contact (automated, electronic communication), which:

- § Keep participants engaged and informed about research activities
- § May contribute to science literacy
- § Builds and sustains relationships, which are important to trust
- § Creates good will in public programs and research enterprise

# Accountability: Task for Stewards

- ▶ A research repository governance system will need to build in accountability mechanisms that:
  - § Track the research uses of repository samples and data
  - § Develop plans for risk management
  - § Establish recourse or consequences if breaches occur
- ▶ Transparency about the systems for accountability will help enhance trust



# Stewardship of Resources: Washington State Example

- ▶ Data release to researchers with written informed consent from parent and IRB approval from DOH/DSHS.
  - ▶ Anonymous samples may be released if the department determines that the intended use has significant potential health benefit and that each of the following criteria have been met:
    - § The investigation design is adequate to assure anonymity.
    - § All newborn screening tests have been completed.
    - § At least one fully adequate spot will remain after the anonymous sample has been taken.
    - § Sufficient resources (personnel) are available for sampling.
    - § The DOH/DSHS human subjects research review board has reviewed and approved the investigation.
- § <http://www.doh.wa.gov/ehsphl/phl/newborn/privacy.htm>

# Washington State Experience

- ▶ Residual NBS bloodspot use for research:

- § Type 1 diabetes
- § Hearing loss
- § Maternal smoking
- § H1N1
- § Lysosomal storage diseases

- ▶ Participation rates as high as 90%

(~104,000 of ~116,000 approached for Type 1 diabetes study)

- ▶ Fewer than 10 requests for destruction since 2004  
(out of ~450,000 births)

§ Weiss et al. 2010 Report

# Conclusions

- ▶ We need to consider:
  - § The consent process as an essential element in trust building
  - § NBS programs must act as responsible stewards
  - § We cannot anticipate harms for everyone
  - § People will take risks if the payoff is worth it
- ▶ Residual bloodspot usage needs an approach that protects individual interests as well as promotes effective research.

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