Session 2: Bioethics, Social Responsibility, and Community Engaged Research

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Learning goals

- Describe the four principles of bioethics and apply them to case studies
- Identify shortcomings of the four principle of bioethics
- Identify key stakeholders and conflicts of stakeholdership in community-engaged research
- Understand the benefits of social responsibility and community-engaged

research

Taught by Alanna Pyke (she/her)

Taught by Naiomi Hunter (she/her)

Science and society

SCIENCE UNDER THE SCOPE BY SOPHIE WAN

5 min pairs / small groups

lightly adapted from source material at freerads.org

- What part of this reading surprised you?
- 2. What part of this reading made you uncomfortable?
- 3. What resonated with you?
- 4. Where have you seen examples of society influencing science in your field of study?

Dr. Daphne Martschenko

Introduction to bioethics

Activity: Social Responsibility Discussion

Think about these questions from opposing perspectives.

Guiding questions:

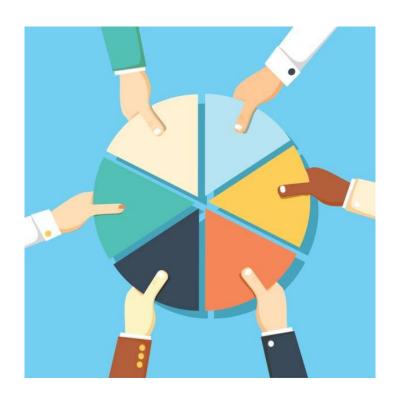
- 1. When do scientists have social responsibility?
- 2. Is it possible to create an ethical framework that will last over time?

3 min small group/pairs7 min large group discussion

Stakeholdership

Stakeholdership

- A stakeholder is one who is involved with or affected by a course of action
- To define a stakeholder, we must ask:
 - What is the course of action?
 - How is this stakeholder involved or affected by the action?
 - What is at stake for them?



Challenges of assessing stakeholdership in study design

- Determine who the stakeholders are, and their primary motivations
- Solicit input from stakeholders in ways that are equitable and accessible
- Prioritize and balance conflicting perspectives
- 4. Appropriate, thoughtful, tailored communication with each group



The Havasupai Tribe: Stewardship & Stakeholdership (6min)

https://www.nytimes.com/video/us/1247467672743/blood-journey.html

Activity: Practice identifying stakeholders

Split into groups of 4-5

7 mins

In your group reflect on the Havasupai Tribe story from the perspective of different stakeholders. The purpose here is not to judge, but reflect and assess.

Guiding questions:

- What is the course of action you are considering?
- Who were the stakeholders and what was at stake for them?
- Where did conflicts arise?
- What are some potential impacts of the outcome?
- Who else might be a stakeholder?

Community-based Participatory Research

Why do community engaged research?

Identify	New intersections through understanding how policy and power operate in the real world
Develop	culturally relevant and useful interventions
Disseminat e	Findings and interventions
Reach	key populations

Slide credit: Jen James

Priorities of Community Based Research

- Reciprocal Relationships and True Partnership
 - Requires true power sharing built on mutual respect and benefit
- Co-learning
 - Acknowledges the importance of everyone's contributions and individual expertise
- Transparent and Shared Decision-Making
 - Heightens accountability of researchers and demonstrates impact of community engagement

Successful community-based research: St. Regis Mohawk Tribe

Context

The reservation is downstream from a superfund site

- General Motors' industrial waste was dumped in the rivers
- PCBs, a carcinogen was released into environment

Conflict

Polluted waters were affecting the health of community members

- Subsistence living
- Fish intake was leading to dangerous levels of PCB in people
- Affecting breast milk!

Impact

Community-led and initiated study

- Mohawk mothers were participants
- Results published in newspaper and radio
- Research trusted by community members

Activity: Use the priorities of community-based participatory research & design a study on cardiac disease

You will be presented with a community-based research scenario and assigned a stakeholder role. Split into groups based on your assigned roles.

<u>10 mins</u>

- Take a minute on your own to read and reflect on your assigned role & perspectives
- In your groups, try to reach a consensus about the study design, data management, and informed consent policies.

25 mins

Group discussion

Activity: Use the principles of community-based participatory research & design a study on cardiovascular disease

Community background

- Tight-knit small town
- Medically underserved and most members are do not have scientific training
- Have been noticing a cardiovascular illness in community members

Disease background

- tends to affect community members
 around birth
- heart rate and breathing are affected
- when older, these members cannot exercise for more than
 5 minutes

Researcher background

- research institution specializing in cardiovascular genetics
- has never collaborated with this community before
- needs more
 publications to get more
 funding through grants

Activity: Use the principles of community-based participatory research & design a study on cardiac disease

- Community members (non-participants)
- Participant community members
- Community leadership (Tribal government, religious leader, community spokesperson, etc)
- Community members that are also researchers
- Lead researchers
- Research team members (trainees, techs, staff, etc)
- Collaborators
- Research institution administrators
- Funding agencies

Activity: Use the principles of community-based participatory research & design a study on cardiac disease

10 minutes in small groups; 25 - 30 minutes in large group

Study design

- What research questions do we investigate?
- What data do we collect & generate?

Data management

- Who owns & manages the data?
- What restrictions do we put in place on the data?

Study consent

- What should be included in the consent form?
- How will data anonymized, esp if sampling from a small group like a Tribal nation?
- What information will be returned to the community?
 How will interventions be put in place?
- Can participants opt to withdraw from the study? How?

Final Thoughts

- Scientists should consider their social responsibility when designing, conducting, and disseminating their research
- Existing regulations have done little to ensure or encourage social responsibility, but researchers should think about the downstream implications of their work
- Different stakeholders (researchers, participants, corporations) have different interests in genetic data, which should be balanced when designing a research study
- Equal partnership, co-learning, transparency and shared decision making are important priorities for CBPR

Session 3: Race, Ancestry, Identity, and Genetics Pt 1

Distinguish between race, ethnicity, ancestry, and nationality.

Differentiate between social identity and genetic ancestry, and in particular, understand how social identity is (often) discretized, while genetic ancestry is a continuum.

Discuss the history of eugenics and medical mistrust among racial/ethnic groups through discussions of historical cases/events, such as the case of Henrietta Lacks.

Understand how race/ethnicity becomes biological through the effects of racism and how this is relevant for genetic medicine and research.



Taught by Justin Gomez-Stafford (he/they)



Taught by Anjali Narain (she/her)