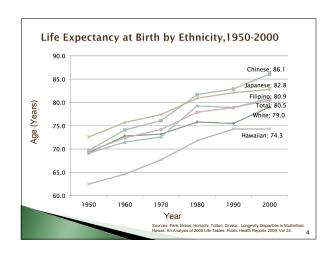


Acknowledgements

- ▶ Committee Members:
 - Jay Maddock, PhD
 - Maile Tauali'i, PhD, MPH
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 Title: Knowledge, Attitudes, and Practices on Bio-Banking among Native Hawaiians, U54 CA 153459-01 (Chong)





Ideal Candidates....

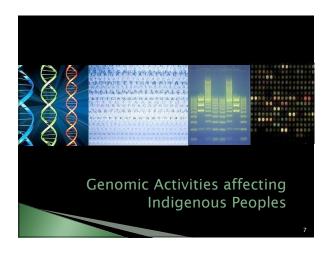
- ▶ Isolated populations are ideal for genetic studies
 - Genes are easier to study because relatively homogenous
 - Homogeneity may lead to immunity against certain genetic diseases, thus providing important insight into the treatment of those diseases
 - o Example: Native Hawaiian community

Source: Alice Hsieh, A Nation's Genes for a Cure to Cancer: Evolving Ethical, Social ar Legal Issues Regarding Population Genetic Databases, 37 Colum. J. L. & Soc. PROBS 359, 370 (2004).

Importance of Genomic Research

- To understand health disparities that exist in Indigenous populations
- Indigenous populations are genetically unique and targets for research

6



Native Hawaiian Genome Project

- 2003, the University of Hawaii proposed patenting the Native Hawaiian genome with the purpose of generating both economic- and health-related benefits for the Native Hawaiian people
- Proposal was strongly opposed by the Native Hawaiian community, who viewed it as an act of Western culture's invasion and destruction of Indigenous peoples
- Resolution Hawaiian Civic Clubs
 - Cease and Desist Until such the Native Hawaiian people have been consulted and given their full, prior and informed consent

8

Specific Aims of My Research

- Specific Aim 1: Conduct an international review and comparison of Indigenous research guidelines related to genetic research.
- Specific Aim 2: Using data from specific aim 1, develop policy recommendations for Indigenous communities interested in creating formal policies around the use of genetic information and protection of biological samples.

9

Methods

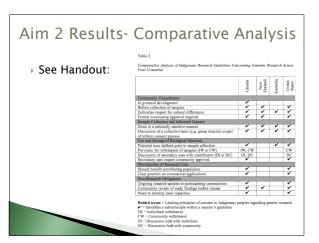
- A comparative analysis was conducted using key resources to identify best research practices and recommendations of Indigenous groups among four countries: Canada, New Zealand, Australia and the United States
- > Current international Indigenous guidelines identified
- Political relationships examined
- Resources were provided via the Native Hawaiian Epidemiology Center

10

Aim 1 Results-International Review

Table 1. Timeline of Indigenous Research Guidelines developed throughout United States, Australia, Canada and New Zealand.

	Title	Date	Author
ĺ	Indigenous Research Protection Act (US)	2000	Indigenous Peoples Council on Biocolonialism (IPCB)
	Values and Ethics: Guidelines for Ethical Conduct in Aboriginal and Torres Strait Islander Health Research (AUS)	2003	National Health and Medical Research Council (NHMRC)
	Guidelines for Health Research Involving Aboriginal People (CA)	2007	Canadian Institutes of Health Research (CIHR)
	Guidelines for Researchers on Health Research Involving Maori (NZ)	2008	Health Research Council of New Zealand (HRCNZ)



Limitations

- Recognizing significant crossovers due to wording and labeling differences
- Assessment of relevancy and merit of guidelines
- Selection criteria for guidelines is limited to those created by English-speaking countries

13

Discussion & Policy Implications

- Genomic research is a growing field
- Indigenous peoples continue to experience harm
- Policy enforcement regarding secondary uses of data, withdrawal of samples, and benefit sharing
- Clearinghouse of guidelines and resources may be helpful

14

Discussion & Policy Implications

- The comparative analysis comprise principles necessary to meet:
 - 1) Ethical requirements of the research process
 - 2) Utilization and governance over information obtained from research
- The comparative analysis suggests that principles established for the use and storage of biological materials needs to ensure:
 - 1) Research is first carried out ethically
 - 2) Research participants are not harmed by involvement in a biobank

15

Recommendations

- Development: Indigenous research guidelines concerning the use of genetic information and protection of biological samples throughout New Zealand, Australia and the United States.
- 2. **Trust:** Recognizing "trust" as a principle within Indigenous research guidelines.
- 3. **Implementation:** Enforcement of policy or law by repercussive actions on those who violate the rights of Indigenous peoples through research.

16

Take Home Message

"The measure of a country's greatness should be based on how well it cares for its most vulnerable populations."

-Mahatma Ghandi



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**References Available Upon Request