When Science Outpaces Native Political Will:

The relationship of science to emerging indigenous partnerships

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Native Perspectives on Research

- Native Case Studies: Alaska & Hawai'i
- 'New' Era of Community Engagement & Participatory Research
- Native Wisdom Scientific Evidence
- Research that Benefits Native People

An issue of trust

- Native Americans have trust issues with both research and the Federal government
- Native sovereignty
- Do the benefits to the tribe outweigh trust issues?

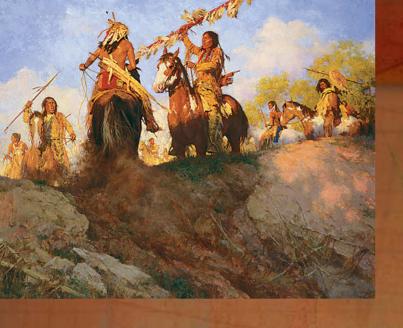


Specimen Bank: Case in Point

- The collection of biological materials
- Use and consent issues
- Benefits:
 - pre diagnostic markers
- Prevalence (e.g. Helicobacter pylori)
 - Individual identification

Specimen Bank: Case in Point

- Management: IHS, CDC, AK Native Tribal Health Organizations and State of Alaska (Public Health) Working Group
- Policies for the future
 - Consent to be in a research study
 - Consent to store and test samples
 - Option for individuals to opt out of stored specimens



Tribal questions

- Who owns the data?
- How will it be used?
- Do tribes have control of the final product (ie publications)?
- Who has access to these data?



A Woman's Risk of Getting Breast Cancer Increases with Age.

Risk is 1 in:

>28,000 19,608

Consent issues



- How was/is consent obtained?
- Ethics of the researchers
- Ethics education for Native entities
- Cross-cultural training of researchers



Empowering Tribes

- Training of individuals to do research in their communities
- Explaining of benefits to tribes
- Identifying PI's to do this research
- Utilizing focus groups

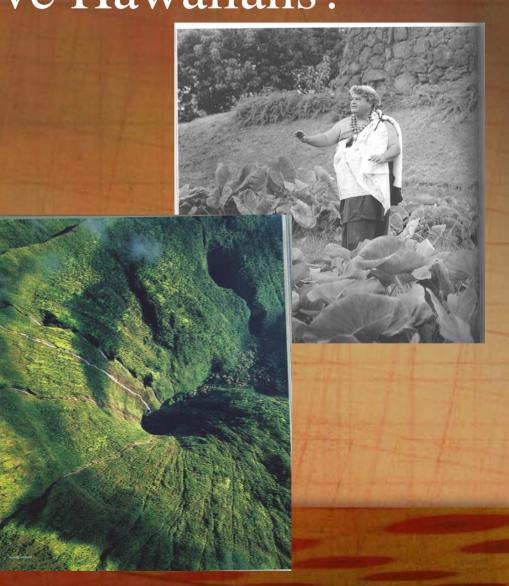




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Who are Native Hawaiians?

- ~500 AD: indigenous people of Hawai'i
- 1778: James Cook arrived
- 1893: Illegal overthrow of Hawaiian Kingdom by American businessmen





Queen Lili'uokalani (1838-1917) Reigned 1891 - 1893

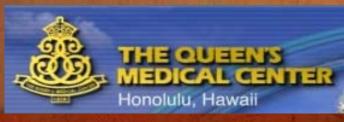
"I do under this protest, and impelled by said force, yield my authority until . . . the United States shall . . . undo the action of its representatives and reinstate me in the authority which I claim as the constitutional sovereign of the Hawaiian Islands."



Malama Pu'uwai Study

A Research Partnership: Department of Native Hawaiian Health & Queens Medical Center







John A. Burns School of Medicine University of Hawai'i at Manoa

NIH-NHLBI U01 HL 079613

The Malama Pu'uwai Project

- Mission: to address and reduce cardiovascular disparities, specifically heart failure, in Native Hawaiians and other Pacific Island Peoples
 - Research Studies, Training and Community Engagement
- Consists of 4 interrelated studies on heart failure among Native Hawaiians & Other Pacific Islanders
 - Randomized Control Trial
 - Community Health Worker Echo
 - Ethnic differences in Heart Failure
 - Family Heart Health History Study

'Ohana (Family) Heart Health History

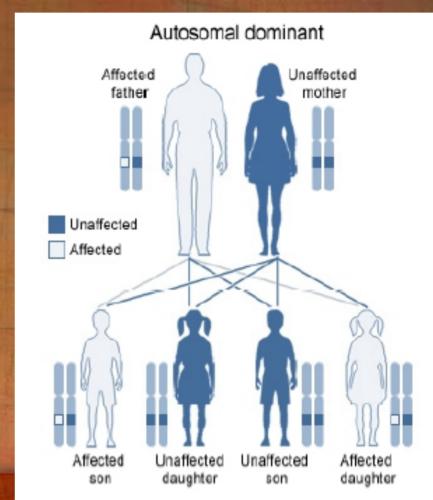
- Purpose: Identify & collect detailed family health histories in Native Hawaiian patients with diagnosed heart failure.
- Research Question: Are there inherited forms of cardiomyopathy that might explain excess heart disease?



'Ohana Heart Health History Study

 Native Hawaiian Probands with Diagnosed Heart Failure Identified & Enrolled (N=10)

• Detailed Family Histories were constructed for each family.



(Somewhat) Unexpected Findings: Inherited Cardiomyopathy in Native Hawaiians

- Predominant pattern of inheritance autosomal dominant
 - Patterns of inheritance allows genetic risk stratification
- Automatic Implantable Cardiac Defibrillator Lifesaving treatment in diagnosed cardiomyopathy
 - Non-invasive method for screening family members
- How best to inform family members about this potentially life-saving treatment for a genetic disease?

Currently: 'Ohana (Family) Heart Health History Study

• Specific Aim completed

Scientific/Research Pause
the to allow for families, native & clinical communities to learn of

Go: results & suggest future steps families (and larger community – native & clinical)

John A. Burns School of Medicine



at University of Hawai'i

So the question arises...

How to do Research with Native Communities?

Some thoughts worth considering...

Community Engagement & Participatory
Research: *Beyond Cross-cultural Communications*Researchers need a stronger understanding of...

- Meaningful partnerships with communities
- Context community, cultural, literacy
- Trust building, sustaining, strengthening
- Power-sharing knowledge, budget, resources
- Community needs understand benefit of research

AND Practical Experience / Mentorship on achieving them

What does Community Engagement Mean?

What is *Meaningful* Community Engagement?

... at it's HEART is...

Intersection of the complementary efforts of members of the lay community, health practitioners & medical & public health researchers to improve health.



CTSA Consortium's Community Engagement Key Function Committee Workshop Summary 2008

Key Ethical Issues in Native Communities

- Preparing for research in Native communities
- Developing the collaboration or partnership
- Informed consent issues
- Community knowledge collection
- Research data management
- Sustainability of research efforts

'Ohana Heart Health History: Lessons Learned Sustainability is KEY for Native Communities

- Sustainability for Communities means tangible benefits resulting from the study findings
 - How will this benefit our community?
 - Will we be teaching this new knowledge to the next generation?
 - Will there be better ways to keep our people healthy?
- Researchers need to engage in ACTIVE Listening
 - able to touch the essence of what the family/community needs may be.

