NIH Policies, Protections, and Implications for the Ethical Conduct of Research with Tribal Communities, including Genetic Research

> Adam C. Berger, PhD Office of Science Policy, NIH

Sara Chandros Hull, PhD Tribal Health Research Office, NIH (Detail)

November 7, 2022



Overview

- Historical Review of Research Protections and Current Policies
- Contemporary Research Protection Insights and Practices
- Consent and Genomic Data Sharing
- Data Management and Sharing
- Importance of Inclusion and Diversity

Research Protections

- Why are they necessary?
- Developing an ethical enterprise



1937 – Sulfanilamide Elixir



Those who cannot remember the past are condemned to repeat it.

George Santayana



Nuremberg Trials and Code

TRIALS of WAR CRIMINALS before the NUERNBERG MILITARY TRIBUNALS



VOLUME II

"THE MEDICAL CASE" "THE MILCH CASE" 1946

Nuremberg Code (1948)

- The <u>voluntary consent</u> of the human subject is <u>absolutely essential</u>.
- 2. The <u>experiment</u> should be such as to yield fruitful results for the good of society, unprocurable by other methods or means of study, and <u>not random and unnecessary</u> in nature.
- The experiment should be so <u>designed and based on</u> <u>the results of animal experimentation</u> and a knowledge of the natural history of the disease or other problem under study, that the <u>anticipated</u> <u>results will justify the performance of</u> <u>the experiment</u>.
- The experiment should be so conducted as to avoid all unnecessary physical and mental suffering and injury.
- <u>No</u> experiment should be conducted, where there is an a priori <u>reason to believe that death or disabling</u> <u>injury will occur</u>; except, perhaps, in those experiments where the experimental physicians also serve as subjects.
- <u>The degree of risk</u> to be taken <u>should never exceed</u> that determined by the humanitarian importance of <u>the problem to be solved</u> by the experiment.

- Proper <u>preparations</u> should be <u>made</u> and adequate facilities provided to <u>protect</u> the <u>experimental subject against even</u> <u>remote possibilities of injury,</u> <u>disability, or death</u>.
- 8. The experiment should be <u>conducted only by</u> <u>scientifically qualified persons</u>. The highest degree of skill and care should be required

through all stages of the experiment of those who conduct or engage in the experiment.

- During the course of the experiment, the human subject should be at liberty to bring the experiment to an end, if he has reached the physical or mental state, where continuation of the experiment seemed to him to be impossible.
- 10. <u>During the course of</u> the experiment, the <u>scientist in</u> <u>charge must be prepared to terminate the</u> <u>experiment at any stage</u>, if he has probable cause to believe, in the exercise of the good faith, superior skill and careful judgement required of him, that a continuation of the experiment is likely to result in injury, disability, or death to the experimental subject



National Institutes of Health Office of Science Policy

Significant Failures to Protect Research Participants and the Public

1932-1972 Tuskegee



1946-1948 Guatemala



1953-1962 - Thalidomide





Declaration of Helsinki (1964)

Basic principles for physician involvement in research



Adopted by the 18th WMA General Assembly, Helsinki, Finland, June 1964 and amended by the: 29th WMA General Assembly, Tokyo, Japan, October 1975 35th WMA General Assembly, Venice, Italy, October 1983 41st WMA General Assembly, Hong Kong, September 1989 48th WMA General Assembly, Somerset West, Republic of South Africa, October 1996 52nd WMA General Assembly, Edinburgh, Scotland, October 2000 53rd WMA General Assembly, Washington DC, USA, October 2002 (Note of Clarification added) 55th WMA General Assembly, Tokyo, Japan, October 2004 (Note of Clarification added) 59th WMA General Assembly, Seoul, Republic of Korea, October 2008 64th WMA General Assembly, Fortaleza, Brazil, October 2013

- Based on animal experimentation first;
- Research protocols reviewed by independent body
- Conducted by scientifically qualified individuals and take responsibility for participants welfare
- Weigh benefit-risk
- Respect for participant privacy
- Voluntariness; use of informed consent



Further Developments

Surgeon General Policy (1966)

SURGEON GENERAL'S DIRECTIVES ON HUMAN EXPERIMENTATION

HE Surgeon General, Public Health Service, grantee institutions to assist the Service in the United States Department of Health, Educa- conduct of its study. L tion, the advice directives c No new, renewal, or continuation research or research 1 facilitate volving hu training grant in support of clinical research and investiga- ion. Public Hea tion involving human beings shall be awarded by the VART, M.D. Public Health Service unless the grantee has indicated 29, Revised in the application the manner in which the grantee institu-TO: tion will provide prior review of the judgment of the FROM principal investigator or program director by a committee SUBJECT: of his institutional associates. This review should assure an independent determination: (1) of the rights and welng Human fare of the individual or individuals involved, (2) of the On Febru linical Rerelating to appropriateness of the methods used to secure informed for Review including cl consent, and (3) of the risks and potential medical benefits nd Welfare group revie of the investigation. A description of the committee of the human involved of the associates who will provide the review shall be invice Grants training. ' cluded in the application. extended to an grants and awards of the rubbe PPO #129, February 8, 1966 SUPERSEDES: Health Service in the support of research, training, PPO #129 Supplement, April 7, or demonstration projects, including the projects 1966 supported through general research support and

those of fellows and trainees. The policy is not .1. 11 .

1. BACKGROUND

National Research Act (1974)



Belmont Report (1979)





Belmont Principles and Application

Principles

Respect for persons

- Individuals should be treated as autonomous agents
- Persons with diminished autonomy are entitled to protection

• Beneficence

- Do no harm
- Maximize possible benefits and minimize possible harms

• Justice

 Research benefits and risks need to be fairly distributed

Application

Informed consent

- Research participants should be given the opportunity to choose what happens to them
- Participation in research should be voluntary and free from undue influence/coercion
- Informed consent has 3 elements: information, comprehension, and voluntariness

• Risks and benefits must be systematically assessed

- Determine validity of the presuppositions of the research
- Distinguish nature, probability, and magnitude of risks (risks should be reduced to those necessary to achieve the research objective)

• Selection of participants

• Should be **fair** procedures and outcomes in the selection of research participants



"Common Rule" (1981-present)



- HEW and FDA revise human subjects regulations taking into account foundation laid by Belmont
- President's Commission calls for all federal agencies to adopt HHS human subjects regulations
- 1991 15 depts and agencies adopt Common Rule
- Today 20 departments and agencies
- Outlines basic provisions for IRBs (membership, function, operations, review, record keeping), informed consent (required elements, obtainment, documentation), and assurance of compliance



Revised Common Rule

- § 46.101 To what does this policy apply?
 - (f) This policy does not affect any state or local laws or regulations (including tribal law passed by the official governing body of an American Indian or Alaska Native tribe) that may otherwise be applicable and that provide additional protections for human subjects.
- § 46.114 Cooperative research.
 - (2) The following research is not subject to this provision:
 - (i)Cooperative research for which more than single IRB review is required by law (including tribal law passed by the official governing body of an American Indian or Alaska Native tribe);
- § 46.116 General requirements for informed consent.
 - (i) Preemption. The informed consent requirements in this policy are not intended to preempt any applicable Federal, state, or local laws (including tribal laws passed by the official governing body of an American Indian or Alaska Native tribe) that require additional information to be disclosed in order for informed consent to be legally effective.

HHS and FDA Harmonization

- 2018- <u>Harmonization</u> where possible FDA/ Common Rule
- 2022 Institutional Review Boards: Cooperative Research
- 2022 Protection of Human Subjects and Institutional Review Boards

"FDA requests comment on whether it is appropriate to include an exception for cooperative research for which use of a single IRB is unable to meet the needs of specific populations"



Benefits of Single IRB

- Enhance and streamline the IRB review process for multi-site trials to allow research to proceed expeditiously without compromising protections
- Eliminate unnecessarily duplicative IRB review
- Reduce administrative burden and systemic inefficiencies for investigators, institutions, IRBs, and NIH staff

Development of the NIH Single IRB Policy

- Draft NIH Single IRB Policy published in December 2014
 - 167 public comments received from a range of stakeholders including researchers, institutions, IRBs, patient advocates, scientific societies, Tribal Nation representatives, and others
- Final NIH Single IRB Policy published June 2016; effective date delayed until January 25, 2018
 - Applies to all competing grant applications for due dates on or after January 25, 2018
 - Applies to all R&D contract solicitations issued on or after January 25, 2018
 - Applies to intramural research studies submitted for initial review after January 25, 2018



Exceptions to this policy will be made where review by the proposed sIRB would be prohibited by a federal, tribal, or state law, regulation, or policy.

NOT-OD-16-094: Final NIH Policy on the Use of a Single Institutional Review Board for Multi-Site Research

Contemporary Research Protection Insights and Practices



October 3, 1995



Los Angeles Times

ıton

Clinton Apologizes for Radiation Tests : Experiments: Cabinet will study compensation for some victims and their families. About 4,000 secret studies through 1974 were disclosed.

October 04, 1995 | MARLENE CIMONS | TIMES STAFF WRITER



WASHINGTON — President Clinton apologized Tuesday to the survivors and families of those who unknowingly were subjects of government-sponsored radiation experiments, and ordered his Cabin devise a system of relief--including financial compensation.

"When the government does wrong, we have a moral responsibility to admit it," Clinton said. "The we owe to one another to tell the truth and to protect our fellow citizens from excesses like these is we can never walk away from."

Saying "our government failed in that duty," he apologized "to all the American people who must b to rely upon the United States to keep its word to tell the truth and to do the right thing."



White House apology ceremony, 16 May 1997. Participants and survivors of the study (first row): Herman Shaw, Fred Simmons, Charles Pollard, Frederick Moss, Carter Howard. White House officials (back row): U.S. Surgeon General David Satcher, President William J. Clinton, Vice-President Albert Gore.



NIH Tribal Consultation Advisory Committee Meeting February 25-26, 2016

> National Institutes of Health Building 31, Conference Room 10 31 Center Drive Bethesda, MD 20892

ETHICAL REVIEW OF RESEARCH WITH TRIBAL COMMUNIITES: NIH Training Opportunities

Sara Chandros Hull, PhD

Chair, NHGRI Institutional Review Board Faculty, Department of Bioethics Director, NHGRI Bioethics Core

titutes of Health

BIOETHICS AT THE NIH



Native Research Network Pre-Conference Workshop (2016)

Cherokee Nation

Akwesasne Mohawk

Overview of Human Subjects Sara Chandros Hull, PhD

Roles of IHS National and Area IRB Mose Herne, MPH, MS

Approaches to Human Subjects Research Protections Timothy Ricks, DMD, MPH Nashville Area IRB

pproaches to Human Subjects Research Protections Bobby Sunkeah, RN, MSHCE, CIP Chickasaw Nation, Chickasaw IRB

Open Discussion

Resorces and Tools for IRBs Lunch/Presentation on CRCAIH IRB Toolki Jyoti Angal, MPH, CIP Temana Andalcio, BA-CRCAIH Cherokee Nation, NCAI

ase Studies in Tribal Researc ibaa' Garrison, PhD

anessa Hiratsuka, PhD, MPH avajo (Dine)/Winnemem Wintu outhcentral Foundation

Institutional Review Board

June 5, 2016 Harrah's Cherokee Casino Resort 777 Casino Dr.

(IRB) Training

Cherokee, NC 28719

IHS and NIH will provide one day training on important issues related to IRB activities. Topics will include: Overview of 45 CFR Part 46 and the IRB review process; Orientation to IHS National and Area IRBs; Opportunities and challenges to establishing and maintaining an IRB or Research Review Committee; Tribal IRB jurisdictional issues; CRCAIH IRB toolkit; and an open discussion session.

Sponsored and hosted by:

Indian Health Service, Office of Public Heath Support, Division of Planning, Evaluation, and Research; National Institutes of Health, National Human Genome Research Institute, and Department of Bioethics; and National Institute on Minority Health and Health Disparities



Capacity Building: Partnering with PRIM&R (2016-present)

- Ongoing webinars and workshops on topics of relevance to Tribal research
 - e.g., NIH DMS Policy (2/23)
- Customized "On Demand" programs
- Additional scholarships/ networking for AI/AN IRB professionals
- Online portal of Tribal IRB resources
 - Ethics case studies
 - Model data sharing agreements

PRIM R Webinar Preserving a Role for Tribal Review of Research in the Context of Single IRB Policies Tuesday, September 20 • 1:00-2:30 PM ET







Some of research's most important questions regard Native sovereignty. See these questions explored at #AER17 primr.org/aer17

Panel II: Sovereignty in Research

The history of research with Indigenous populations in America includes important advances with respect to specific topics (e.g., vaccines, diabetes) and research approaches (e.g., community-based participatory research). Instances of egregious ethics violations, however, tend to dominate the narratives about tribal research both within and outside of tribal communities. For example, the Nutritional Studies in Residential Schools in Canada during the 1940s, the Study of Alcohol Abuse in a Northern Alaska community during the 1980s, and studies of Havasupai biospecimens in Arizona during the early 2000s, are three frequently cited examples of research harms that often drive present-day conversations about tribal research to start from a place of fear. The sovereign status of American Indian and Alaska Native nations, however, provides an opportunity for tribes to steward research in a way that reflects cultural values and that both benefits and protects their citizens and communities. In the context of changing federal and institutional research policies, it is increasingly important to move narratives about tribal sovereignty, and identify the practical needs necessary to support tribal research oversight. This session will provide an overview of historical experiences of tribal research, convey the importance tribal sovereignty in guiding research for the benefit of tribal peoples, and review implementation needs associated with rapidly evolving research technology and interest in research oversight among tribal nations.





Grappling with "Classic" Research Ethics Cases: An Exercise in Humility and Course Correction

Sara Chandros Hull, PhD Mose Herne, MPH, MS Senior Advisors, NIH Tribal Health Research Office

NHGRI Short Course in Genomics August 2, 2022



Example of equitable Tribal-State-academic partnership: Akwesasne

Akwesasne – "Land where the partridge drums" is in the St. Lawrence River Valley and used by Mohawks for thousands of years to

- fish, hunt, and trade Akwesasne Mohawks have maintained language, traditions,
- and ceremonies Home to the first and longest running Indigenous newspaper,
- Akwesasne Notes

Indian Tribe Wins Fight to Limit Research of Its DNA Jurs. More Photos »



Asara L. Santiago-Rivera, Gayle Skawennio Morse, and Anne Hunt State University of New York at Albany

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hwera:tor

Henry Lickers Akwesasne Task Force on the Environment, Mohawk Council Hogansburg, New York

NIH Support for Tribal IRBs

 NIH Tribal Consultation on the NIGMS Native American Research Centers for Health (NARCH) Program Evaluation (June 2021)

Key Outcome: Grants to support the establishment or enhancement of Tribal Institutional Review Boards (IRBs). These grants would support establishing additional Tribal IRBs or enhancing the function of existing ones (e.g., through additional support for staff, systems, and training) to help reduce delays in the IRB approval process and reliance on external IRBs, giving Tribes greater autonomy over their own research processes.

*9/15/2022 NIGMS Council/Concept Clearance



Project is supported by the National Institute on Minority Health and Health Disparities of the National Institutes of Health under Award Number U54MD008164.

- Teaching/mentorship of NIH investigators, trainees, IRB staff, program staff
 - ➢ NIH IRB: OHSRP Education Series
 - CC Bioethics Ethical and Regulatory
 Aspects of Clinical Research Course
 Conversations with Dr. Katrina
 - Claw, case discussions
 - NINDS Summer Internship -Health Disparities in Tribal Communities



OHSRP Education Series: Ethical Conduct of Research with American Indian and Alaska Native Participants: Extending Protections through Respect for Tribal Sovereignty

Thursday, September 2, 2021

Dr. Sara Hull, NIH and Dr. Dave Wilson, NIH

Read more

248 views (206 live, 42 VOD) - Runtime: 01:01:08

Facilitating the Ethical Conduct of Tribal Research within NIH

5.2 * Does this study include any of the following:

(select all that apply)

- Take place on American Indian/Alaska Native (AI/AN) land or territory
- Take place at an Indian Health Service (IHS) or other tribal AI/AN facility
- Use IHS resources (staff, funding, space or other support)
- Access non-research data collected at an IHS facility
- Target enrollment of any AI/AN population
- Involve specimens or data from American Indian/Alaska Native populations that was initially collected for other purposes

None of the above

* Has the protocol been reviewed and approved by an Indian Health Service IRB and/or a tribal IRB?

• Yes

C No

Consent and Genomic Data Sharing



§46.116 General Requirements and Basic Elements for Informed Consent

 Prospective participant must be provided with information "reasonable person would want to have in order to make an informed decision about whether to participate, and an opportunity to discuss that information"

Broad consent may be obtained in lieu of informed consent <u>only</u> for **storage, maintenance, and secondary research** uses of identifiable private information and identifiable biospecimens

RESPONSIBLE SHARING OF GENOMIC DATA NIH GENOMIC DATA SHARING (GDS) POLICY (EFFECTIVE JAN 2015)

- Applies to all NIH-funded research generating large-scale <u>human</u> or <u>non-human</u> genomic data and secondary research using these data
- Ensures broad, responsible, and timely sharing of genomic data
- Establishes baseline expectation of the importance of consent
- Developed through extensive stakeholder interactions



Informed Consent



- The GDS Policy expects IRBs to review the informed consent materials
 - Purpose of review is to determine whether it is appropriate for data to be shared for secondary research use.
 - Specific considerations may vary with the type of study and whether the data are obtained through prospective or retrospective data collections.



Informed Consent

- NIH expects investigators to obtain participants' consent for their genomic and phenotypic data to be used for future research purposes and to be shared broadly
- Expected even if the cell lines or clinical specimens are de-identified



 Expected IRBs consult with investigators and their institution about the appropriate secondary use of the data



NIH Guidance on Consent for Future Research Use and Broad Sharing of Human Genomic and Phenotypic Data Subject to the NIH Genomic Data Sharing Policy

Background

NIH-funded studies that generate large-scale human genomic data are subject to the NIH Genomic Data Sharing (GDS) Policy.¹ According to the GDS Policy, investigators who intend to use research or clinical specimens collected or cell lines created after January 25, 2015, to generate genomic data may only do so when informed consent processes explicitly discuss future research use and broad data sharing, even if the data are generated from specimens that are de-identified. NIH-designated data repositories will not accept genomic data derived from specimens or cell lines collected or created after January 25, 2015, without this type of consent.² NIH strongly encourages the broadest appropriate future use and sharing of genomic and phenotypic data.

NIH also recognizes that in some circumstances broad sharing may not be consistent with the consent of the research participants whose data are included in the dataset.³ If the research that involves the generation of genomic and phenotypic data is part of a larger study, such as a clinical trial, and a participant declines to consent to future research use and broad sharing of their data, the participant should not be excluded from the larger study on that basis. If future research use and data sharing are intrinsic to the study, investigators may decline to enroll participants who are unwilling to provide consent for future research use and broad data sharing.

NIH_Guidance_on_Elements_of_Consent_un der_the_GDS_Policy_07-13-2015.pdf



https://osp.od.nih.gov/wp-content/uploads/Informed-Consent-Resource-for-Secondary-Research-with-Data-and-Biospecimens.pdf NIH Guidance on Consent for Future Research Use and Broad Sharing of Human Genomic and Phenotypic Data Subject to the NIH Genomic Data Sharing Policy

Background

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cultural preferences or Tribal laws that will need to be taken into consideration prior to storage and

NIH also recognizes that in some circumstances broad sharing may not be consistent witl sharing of data and biospecimens.

the research participants whose data are included in the dataset.³ If the research that involves the generation of genomic and phenotypic data is part of a larger study, such as a clinical trial, and a participant declines to consent to future research use and broad sharing of their data, the participant should not be excluded from the larger study on that basis. If future research use and data sharing are intrinsic to the study, investigators may decline to enroll participants who are unwilling to provide consent for future research use and broad data sharing.

NIH_Guidance_on_Elements_of_Consent_un der_the_GDS_Policy_07-13-2015.pdf



https://osp.od.nih.gov/wp-content/uploads/Informed-Consent-Resource-for-Secondary-Research-with-Data-and-Biospecimens.pdf

Consent Contextualized



What Makes Clinical Research Ethical?

- Collaborative partnership
- Social value
- Scientific validity
- Fair selection of study population
- Favorable risk-benefit ratio
- Independent review
- Informed consent
- Respect for recruited participants and study communities



Culturally Appropriate Consent Processes (Sample Language)



Data Management and Sharing



Why does NIH Want Data to be Shared?

• Advance rigorous and reproducible research

- Enable validation of research results
- Make high-value datasets accessible
- Accelerate future research directions
- Increase opportunities for citation and collaboration







- Foster transparency and accountability
- Demonstrate stewardship over taxpayer funds
- Maximize research participants' contributions
- Support appropriate protections of research participants' data



NIH Policy for Data Management and Sharing

- Submission of Data Management & Sharing Plan for all NIH-funded research (how/where/when)
- Compliance with the ICO-approved Plan (may affect future funding)

• Effective January 25, 2023 (replaces 2003 Data Sharing Policy)

National Institutes of Health Office of Science Policy

Scope and Expectations

- Scope: All NIH-supported research generating scientific data
 - What's in: "Recorded factual material... of sufficient quality to validate and replicate research findings, regardless of whether the data are used to support scholarly publications"—relates to the proposed research questions and findings can include unpublished null results
- **Expectations:** Data sharing should be maximized (with justifiable limitations), responsibly implemented, and prospectively planned for at all stages of the research process



Potential Limitations on Sharing

- Data Management and Sharing Plans should <u>maximize appropriate</u> sharing:
 - Justifiable ethical, legal, and technical factors for limiting sharing of data include:
 - Informed consent will not permit or limits scope of sharing or use
 - Privacy or safety of research participants would be compromised and available protections insufficient
 - Explicit federal, state, local, or Tribal law, regulation, or policy prohibits disclosure
 - Restrictions imposed by existing or anticipated agreements with other parties
 - Datasets cannot practically be digitized with reasonable efforts
 - Reasons <u>not</u> generally justifiable to limit sharing include:
 - Data are considered too small
 - Researchers anticipate data will not be widely used
 - Data are not thought to have a suitable repository
 - Additional considerations:



NIH respects Tribal sovereignty and supports responsible management/sharing of AI/AN participant data

•NSBIR/STTR Program Policy Directive permits withholding data for 20 years, as stipulated in agreements and office of Science Policy consistent with program goals

Supplemental Information: Responsible Management and Sharing of American Indian/ Alaska Native Participant Data

- Information to assist in developing appropriate DMS Plans
- Emphasizes:
 - ✓ Respect for Tribal Sovereignty
 - ✓ Partnerships and mutual agreements
 - ✓ Building trust
- Developed through Tribal Consultation and stakeholder engagement beginning in 2019



NOT-OD-22-214

Best Practices for Responsible Management and Sharing of AI/AN Participant Data

Understand	Understand Tribal sovereignty and laws, regulations, policies, and preferences
Engage	Engage early with Tribes when developing a data management and sharing plan, before research begins, and continue throughout research
Establish	Establish mutually beneficial partnerships
Agree	Agree who will manage data (e.g., Tribe, researcher, trusted 3rd party)

National Institutes Consider additional protections, as necessary

Office of Science Policy



What are **FAIR Principles**, and what's all the fuss? In 2016, stakeholders came together to <u>endorse</u> "a concise and measurable set of principles" to improve the management and sharing of research data. Findable, Accessible, Interoperable, and Reusable (FAIR) principles are critical elements for making data maximally useful to the research community. Not long after, the <u>Collective Benefit, Authority to</u> <u>Control, Responsibility, and Ethics (CARE) Principles for Indigenous Data</u> <u>Governance</u> were developed, which aimed to ensure that data-sharing movements (like FAIR) would also consider Indigenous peoples' goals, values, and rights to selfdetermination.

> Eric Green, MD, PhD, NHGRI Director The Genomics Landscape

Listening in Albuquerque

Community Environmental Health Program Center for Native Environmental Health Equity Research

TRIBAL DATA SHARING & GENETICS Policy Development Workshop



August 31 - September 1, 2017 **UNM Comprehensive Cancer Center** 1201 Camino de Salud, NE , ABQ, NM 87131

sites.google.com/view/UNMCEHP17

livestream available beginning August 31 at http://206.192.150.42

Contact: C.J. Laselute | 505.272.7407 | claselute@salud.unm.edu

This workshop will bring together tribal policy and spiritual leaders, health researchers, and community members to discuss and understand the benefits and risks for Native American populations from participating in genetic research studies.

Through open dialogue, the goal will be to develop policy recommendations for genetic studies and sharing of research data.

Breakout Session Topi Tribal leaders are developing a policy for DNA analysis and data sharing. Cancer Diagnosis, Prever
 Month and the state of Policy Development Cultural Perspectives Biomedical Ethics Tribal Nations' Needs

Navajo Nation reconsiders ban on genetic research

may be able to offer a service that has been banned on tribal lands for 15 years: analysing the DNA of Navajo tribe members to guide treatments and study the roots of disease. That's because the Navaio, the second-largest

Native American group in the United States, are the reservation must drive hundreds of kiloconsidering whether to lift their long-standing metres to access specialized medical care off

government banned DNA studies in 2002 to prevent the misuse of its members' genetic material. Although there is still some apprehension about allowing researchers access to Navajo DNA, the tribe's leaders increasingly see genetic research as a tool to improve medical care for the 174,000 residents of their sprawling reservation, which is roughly the size of Scotland. As it now stands, Navajo people who live on

tribal lands, in large cities such as Phoenix, Arizona. "We spend millions of dollars outsourcing [care] for cancer and diabetes," says Walter Phelps, a delegate to the Navajo Nation Council. As the tribe - a nation independent of the United States - tries to expand the health services it offers, he says, "the moratorium could become a barrier when blood and tissue have to be collected".

Phelps is now working on the effort to create a policy by which the Navajo Nation would approve genetic-research projects >

12 OCTOBER 2017 | VOL 550 | NATURE | 165



artwork by Mallery Quetawki, Artist-in-Residence, UNM Center for Native Environmental Health Equity Research



NIH Tribal Advisory Committee Meeting (September 2017)



"American Indian and Alaska Native Cultural Wisdom Declaration" Recommendations

"Modify your requirements to fit the relevant traditional [T]ribal paradigm or allow room for flexibility when evaluating proposals submitted by American Indian and Alaska Native [T]ribal nations."



I HE NATIONAL I RIBAL BEHAVIORAL HEALTH AGENDA December 2016

Genomic Research Workshop, Anchorage Alaska (July 2018)



REVIEW ARTICLE Genetics inMedicine

Open

Alaska Native genomic research: perspectives from Alaska Native leaders, federal staff, and biomedical researchers

 Vanessa Y. Hiratsuka, PhD, MPH ¹, Michael J. Hahn, BA², R. Brian Woodbury, BA¹, Sara Chandros Hull, PhD², David R. Wilson, PhD², Vence L. Bonham, JD²,
 Denise A. Dillard, PhD¹, The Alaska Native Genomics Research Workshop Group, Jaedon P. Avey³, Andrea C. Beckel-Mitchener⁴, Juliana Blome⁴, Katrina Claw⁵, Elizabeth D. Ferucci⁶,
 Francine C. Gachupin⁷, Armen Ghazarian⁴, Lucia Hindorff⁴, Sonya Jooma⁴, Susan B. Trinidad⁸, Jennifer Troyer⁴ and Hina Walajahi⁴

Meaningful engagement of Alaska Native (AN) tribes and tribal health organizations is essential in the conduct of socially responsible and ethical research. As genomics becomes increasingly important to advancements in medicine, there is a risk that populations not meaningfully included in genomic research will not benefit from the outcomes of that research. AN people have historically been underrepresented in biomedical research; AN underrepresentation in genomics research is compounded by mistrust based on past abuses, concerns about privacy and data ownership, and cultural considerations specific to this type of research. Working together, the National Human Genome Research Institute and two Alaska Native health organizations, Southcentral Foundation and the Alaska Native Health Board, cosponsored a workshop in July 2018 to engage key stakeholders in discussion, strengthen relationships, and facilitate partnership and consideration of participation of AN people in community-driven biomedical and genomic research. AN priorities related to translation of genomics research to health and health care, return of genomic results, design of research studies, and data sharing were discussed. This report summarizes the perspectives that emerged from the dialogue and offers considerations for effective and socially responsible genomic research partnerships with AN communities.

Genetics in Medicine (2020) 22:1935-1943; https://doi.org/10.1038/s41436-020-0926-y

Keywords: Alaska Natives, North American; ethics; US National Institutes of Health; social responsibility; trust

What are the lessons?

• "[A] profound disconnect exists between common academic research practices and legitimate [tribal] community expectations, and justice requires that this gap be bridged."

Goering, Holland, and Fryer-Edwards (2008) HCR

Panel Presentation and Discussion: Data Sharing Approaches

- AN leaders not opposed to data sharing
 - Stressed reciprocity, transparency, respect
 - Themes included flexibilities that specific NIH policies have for AN communities
- Researchers must cultivate authentic relationships with AN communities to build trust, develop tailored approaches to consent
- More communication and education about risks, benefits, privacy, how to apply for exceptions

Home / News & Events / NIH and Alaska Native leaders identify how to achieve socially responsible genomics research

NIH and Alaska Native leaders identify how to achieve socially responsible genomics research



Importance of Inclusion and Diversity



NIH Policies

Inclusion of Women and Minorities as

Participants in Research

Inclusion of Individuals Across the

Lifespan as Participants in Research



Changing the Conversation about Diversity and Inclusion



Popejoy and Fullerton 2016 Nature

TRANSLATIONAL GENETICS

SCIENCE AND SOCIETY

Prioritizing diversity in human genomics research

Lucia A. Hindorff, Vence L. Bonham, Lawrence C. Brody, Margaret E. C. Ginoza, Carolyn M. Hutter, Teri A. Manolio and Eric D. Green

Genetics and Health Disparities

 "[I]nequities in the amount and quality of genetic and genomic data generated for various human populations have the potential to exacerbate existing health disparities as genetic discoveries are translated into clinical and public health interventions."

Knerr, Wayman, and Bonham (2011) JLM&E

Changing the Conversation about Diversity and Inclusion





(n=2,224)

Applying a Health Equity Lens to Genomics



Building a Diverse Genomics Workforce: An NHGRI Action Agenda





workforce and addressing health disparities.

NIH Tribal Health Research Office

Start your semester with some inspiration from Leah Nez! As an undergraduate student and post baccalaureate fellow, Leah conducted research with the National Institutes of Health (NIH). In this Q&A, she shares her background and experiences, path to studying #bioethics, and advice for other students interested in science, research, and health. https://dpcpsi.nih.gov/thro/student-spotlight-leah-nez

"The challenges you overcome will build you into the person you need to forward your career. So, don't shy away from hardship, but instead run towards it. Be patient and gentle with yourself." - Leah Nez

Bryan Leavelle

The Metropolitan State University of Denver

NINDS Brain for Life National Human Genome Research Institute #nativestudents #nativescholars #tribalhealth #nativehealth #researchtraining #postbac #students #research #science





PERSPECTIVE

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A framework for enhancing ethical genomic research with Indigenous communities

Katrina G. Claw¹, Matthew Z. Anderson^{2,3}, Rene L. Begay⁴, Krystal S. Tsosie ^{5,6}, Keolu Fox⁷, Summer internship for INdigenous peoples in Genomics (SING) Consortium & Nanibaa' A. Garrison (1) 8,9

Thank you!



