Participants' perspectives and the evolution of genomic data sharing policies

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• The views expressed are my own

Overview

- Evolution of genomic data sharing policies
- Participant perspectives on data sharing
 - Sources of diversity
 - Sampling of empirical studies
 - Consent/willingness to participate
 - Strategies to build trust and significance of trust
 - Return of results
 - Governance
 - Indigenous groups

Policy Evolution

Events	Autism, PXE biobanks Nuu-chah-nulth case	Havasupai case	Homer et al: can identify from pooled data	_	GA4GH	Precision Medicine Initiative	Cambridge Analytica	Equifax Breach	Golden State Killer case	
	1990s	2005				2015				2020
Policies	Bermuda Principles	GC Data Release and Resource Sharing	GWAS/dbGaP	GSR to controlled access	Genomic Data	Sharing			Most GSR back to unrestricted access	Data Management and Sharing

1

Tri-Agency Research Data Management



Sources of Diversity

Patients

Public

Research participants

Serious, optionslimited condition Groups with distinctive concerns

Perspectives: A Sampling

Consent/Willingness to Share

SYSTEMATIC REVIEW inMedicine

Open

A systematic literature review of individuals' perspectives on broad consent and data sharing in the United States

Nanibaa' A. Garrison, PhD^{1,2}, Nila A. Sathe, MA, MLIS^{3,4}, Armand H. Matheny Antommaria, MD, PhD⁵, Ingrid A. Holm, MD, MPH^{6,7}, Saskia C. Sanderson, PhD⁸, Maureen E. Smith, MS, CGC⁹, Melissa L. McPheeters, PhD, MPH^{3,4} and Ellen W. Clayton, MD, JD^{1,2,4,10}

Purpose: In 2011, an Adva proposed that de-identified h in biobanks only if patients p of Health Genomic Data Sh requiring broad consent from

Methods: We conducted a toward biobanking, broad co databases included MEDLI GenETHX. Study screening v

Results: The final 48 studies (n = 8), mixed methods (n = 1) analyses (n = 2). Study quali fair (n = 27), and poor (n = 2)

Vast amounts of genomic for many types of researcl gated from several sites to These data are often place which may exist at both th gated or centralized sites, : and Phenotypes. These da one purpose—whether for project—frequently can be facts raise two distinct, but what conditions data can a

research in order to increase what can be learned from them. The second is whether data can and should be shared with other investigators in academic institutions, the government, and the commercial sector.

Currently, regulations for the protection of research participants and the Health Information Technology for Economic and Clinical Health Act amendments to the Health Insurance Portability and Accessibility Act Privacy Rule' permit the sharing and repurposing of data under certain conditions

While the majority often expressed support for broad consent when that was the only choice offered, only a minority of respondents favored broad consent when other options, such as tiered or study-by-study consent, were offered... Willingness to give broad consent increased if data were de-identified. While individuals were generally willing for data or biospecimens to be shared with other academic researchers, individuals were less willing for their data to be shared in federal databases or with commercial enterprises.

> Nonetheless, questions remain about the ethical and practical desirability and acceptability of broad consent for research and data sharing. Approaches to obtain permission for use of genomic samples and data include no consent, opt-out, opt-in, case-by-case, tiered or categorical,⁴ and broad or blanket consent. Many have argued that blanket consent for unanticipated future research uses is unethical⁵ or unworkable,⁶ whereas others argue that such consent is acceptable as long as additional protections are in place,⁷ especially since broad data sharing

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ARTICLE

Public Opinion about the Importance of Privacy in Biobank Research

David J. Kaufman,^{1,*} Juli Murphy-Bollinger,¹ Joan Scott,¹ and Kathy L. Hudson¹

Concerns about priva requires understanding willingness to particip conducted. Ninety per information, and 37% provide consent for ea only when responden Among respondents w

Nearly half (48%) would prefer to give permission once...for all research approved by an oversight panel. Slightly fewer (42%) wanted to be asked permission for each research project Nearly half (48%) would separately, and 10% preferred to select categories of tively, would grant acc research.... 81% agreed that [being asked for consent] would make them feel 'respected and involved'...

ingness. Survey respondents valued both privacy and participation in biomedical research. Despite pervasive privacy concerns, 60% would participate in a biobank. Assuring research participants that their privacy will be protected to the best of researchers' abilities may increase participants' acceptance of consent for broad research uses of biobank data by a wide range of researchers.

Introduction

Large, prospective cohort studies that use DNA samples annotated with varying amounts of medical, lifestyle, and environmental information are becoming standard research tools for examining the effects of genes, environment, and lifestyle on common complex diseases,¹⁻⁵ but

The National Institutes of Health (NIH) and other federal agencies have contemplated the creation of a large biobank that would recruit a nationwide representative sample of at least 500,000 people. A proposed study design¹² would establish recruitment sites across the country for the collection of biospecimens and the performance of a comprehensive baseline exam on each participant. Hospital

	"I Would Allow These Researchers to Use My Samples and Information for Research."							"If I Could Not Be Identified,		
i	Academic or Medical Researchers in the United States		Government-Funded Researchers		Pharmaceu Researcher	tical-Company s	 I Would Be Willing to Have My Information and Research Results Available on the Internet to Anyone." 			
	Aaree ^a	p Value	Aaree ^a	p Value	Aaree ^a	p Value	Aaree ^b	p Value		
Household Ir	ncome									
\$0-24,999	89%	0.004	77%	0.02	72%	0.47	49%	0.91		
\$25,000– 49,999	90%		76%		75%		47%			
\$50,000– 74,999	94%		80%		75%		48%			
\$75,000+	95%		88%		77%		54%			
Education										
Bachelor's degree or higher	95%	0.01	87%	0.0004	74%	0.40	53%	0.39		
No bachelor's degree	90%		77%		75%		48%			
Race or Ethn	ic Group									
Black, non-Hispanic	85%	0.004	71%	0.06	71%	0.07	49%	0.13		
Hispanic	89%	0.47	78%	0.48	69%	0.04	46%	0.33		
White, non-Hispanic	93%	reference	81%	reference	76%	reference	50%	reference		

Kaufman et al 2009

Example: Perspectives into Policy

- NIH Genomic Data Sharing Policy requires consent for genomic research with specimens/cell lines created or collected after January 25, 2015:
 - Even if de-identified
 - Can be broad consent
 - Exception for "compelling scientific reasons"

The reason the Policy expects consent for research for the use of data generated from deidentified clinical specimens and cell lines...is because the evolution of genomic technology and analytical methods raises the risk of reidentification. Moreover, requiring that consent obtained is respectful of research be participants, and it is increasingly clear that participants expect to be asked for their permission to use and share their de-identified specimens for research.

SPECIAL ARTICLE

Clinical Trial Participants' Views of the Risks and Benefits of Data Sharing

Michelle M. Mello, J.D., Ph.D., Van Lieou, B.S., and Steven N. Goodman, M.D., Ph.D.

ABSTRACT

BACKGROUND

From the Department of Health Research and Policy, Stanford University School of Medicine (M.M.M., V.L., S.N.G.) and Stanford Law School (M.M.M.) — both in Stanford, CA. Address reprint requests to Dr. Mello at Stanford Law School, 559 Nathan Abbott Way, Stanford, CA 94305, or at mmello@law.stanford.edu.

N Engl J Med 2018;378:2202-11. DOI: 10.1056/NEJMsa1713258 Copyright © 2018 Massachusetts Medical Society. Sharing of participant-level clinical trial data has potential benefits, but concerns about potential harms to research participants have led some pharmaceutical sponsors and investigators to urge caution. Little is known about clinical trial participants' perceptions of the risks of data sharing.

METHODS

We conducted a structured survey of 771 current and recent participants from a diverse sample of clinical trials at three academic medical centers in the United States. Surveys were distributed by mail (350 completed surveys) and in clinic waiting rooms (421 completed surveys) (overall response rate, 79%).

RESULTS

Less than 8% of respondents felt that the potential negative consequences of data sharing outweighed the benefits. A total of 93% were very or somewhat likely to allow their own data to be shared with university scientists, and 82% were very or somewhat likely to share with scientists in for-profit companies. Willingness to share data did not vary appreciably with the purpose for which the data would

Make sure people's participation in clinical trials leads to the most scientific benefit possible	4	6.6	33	14.6	3.8-1.2	
Support learning about diseases that only a small number of people have (by combining data from many clinical trials)	-	49.9	3	11.4	13,4	4.6 0.8
Help patients and groups of patients learn more about health problems that affect them		50.9		31.3	11.5	4.9 -1.5
Help get answers to scientific questions faster using information that others have already gathered	4	6.6	31.	6	17.0	3.4-1.3
elp scientists check the accuracy of research results announced by other scientists or companies (by re-doing the analyses)	41.0		36.3		15.8	5.5 -1.5
Discourage scientists and companies from hiding or distorting their clinical trial results (by making it possible for others to check their analyses)	35.1		32.2	18.2	10.0	0 4.4
Help ensure that research dollars are spent as wisely as possible	34.5		36.6	20	1	7.1 -1.8
Lower the cost of developing new medical products	31.4		27.9	26.0	10.0	4.7
Help lawyers prove their case in lawsuits claiming that medical products are unsafe	21.8	20.9	24.4	22.8		10.2

			1	concer	ned	con	cerned	co	ot at all ncerned	d
9.5	1	27.1		>	31.4			32.0)	
11.2	2	2.6			32.0			34.2		
12.9 17.6				33.8			35.7			
8.7	8.7 19.3			33.2			38.8			
7.1	19.2			35.0			38.7			
8.2	16.6			35.5		39.7				
8.4	15.4		3	32.1			44.1			
6.6	14.9		27.9	27.9			50.7			
6.1	14.0		32.3	3			47.7			
6.3	12.3		34.6	34.6			46.8			
4.7	9.5	28.	.6				57.2			
0	10 2	0	30	40	50	60	70	80	90	1
	12.9 8.7 7.1 8.2 8.4 6.6 6.1 6.3 6.3	12.9 1 8.7 19.3 7.1 19.2 8.2 16.6 8.4 15.4 6.6 14.9 6.1 14.0 6.3 12.3	12.9 17.6 8.7 19.3 7.1 19.2 8.2 16.6 8.4 15.4 6.6 14.9 6.1 14.0 6.3 12.3 4.7 9.5 28.	12.9 17.6 8.7 19.3 7.1 19.2 8.2 16.6 8.4 15.4 6.6 14.9 27.9 6.1 14.0 32.3 34.6 4.7 9.5 28.6	12.9 17.6 33 8.7 19.3 33.2 7.1 19.2 35.0 8.2 16.6 35.5 8.4 15.4 32.1 6.6 14.9 27.9 6.1 14.0 32.3 6.3 12.3 34.6 4.7 9.5 28.6	12.9 17.6 33.8 8.7 19.3 33.2 7.1 19.2 35.0 8.2 16.6 35.5 8.4 15.4 32.1 6.6 14.9 27.9 6.1 14.0 32.3 6.3 12.3 34.6 4.7 9.5 28.6	12.9 17.6 33.8 8.7 19.3 33.2 7.1 19.2 35.0 8.2 16.6 35.5 8.4 15.4 32.1 6.6 14.9 27.9 6.1 14.0 32.3 6.3 12.3 34.6 4.7 9.5 28.6	12.9 17.6 33.8 8.7 19.3 33.2 7.1 19.2 35.0 8.2 16.6 35.5 8.4 15.4 32.1 4 6.6 14.9 27.9 50.7 6.1 14.0 32.3 47 6.3 12.3 34.6 46 4.7 9.5 28.6 57.2	12.9 17.6 33.8 35.7 8.7 19.3 33.2 38.8 7.1 19.2 35.0 38.7 8.2 16.6 35.5 39.7 8.4 15.4 32.1 44.1 6.6 14.9 27.9 50.7 6.1 14.0 32.3 47.7 6.3 12.3 34.6 46.8 4.7 9.5 28.6 57.2	12.9 17.6 33.8 35.7 8.7 19.3 33.2 38.8 7.1 19.2 35.0 38.7 8.2 16.6 35.5 39.7 8.4 15.4 32.1 44.1 6.6 14.9 27.9 50.7 6.1 14.0 32.3 47.7 6.3 12.3 34.6 46.8

ARTICLE

Global Public Perceptions of Genomic Data Sharing: What Shapes the Willingness to Donate DNA and Health Data?

Anna Middleton,^{1,2,*} Richard Milne,^{1,3} Mohamed A. Almarti,⁴ Shamim Anwer,⁵ Jerome Atutornu,¹ Elena E. Baranova,⁶ Paul Bevan,⁴ Maria Cerezo,⁷ Yali Cong,⁸ Christine Critchley,^{9,10} Josepine Fernow,¹¹ Peter Goodhand,¹² Qurratulain Hasan,^{13,14} Aiko Hibino,¹⁵ Gry Houeland,¹¹ Heidi C. Howard,^{11,39} S. Zakir Hussain,¹⁴ Charlotta Ingvoldstad Malmgren,^{16,17} Vera L. Izhevskaya,¹⁸ Aleksandra Jedrzejak,¹⁹ Cao Jinhong,²⁰ Megumi Kimura,²¹ Erika Kleiderman,²² Brandi Leach,²³ Keying Liu,^{24,25} Deborah Mascalzoni,^{26,11} Álvaro Mendes,²⁷ Jusaku Minari,²⁸ Nan Wang,⁸ Dianne Nicol,¹⁰ Emilia Niemiec,¹¹ Christine Patch,^{1,29} Jack Pollard,²³ Barbara Prainsack,^{40,31} Marie Rivière,³² Lauren Robarts,¹ Jonathan Roberts,¹ Virginia Romano,^{11,26} Haytham A. Sheerah,²⁴ James Smith,⁴ Alexandra Soulier,¹¹ Claire Steed,⁴ Vigdis Stefånsdóttir,³³ Cornelia Tandre,¹¹ Adrian Thorogood,²² Torsten H. Voigt,³⁴ Anne V. West,³⁵ Go Yoshizawa,³⁶ and Katherine I. Morley^{23,37,38}

Summary

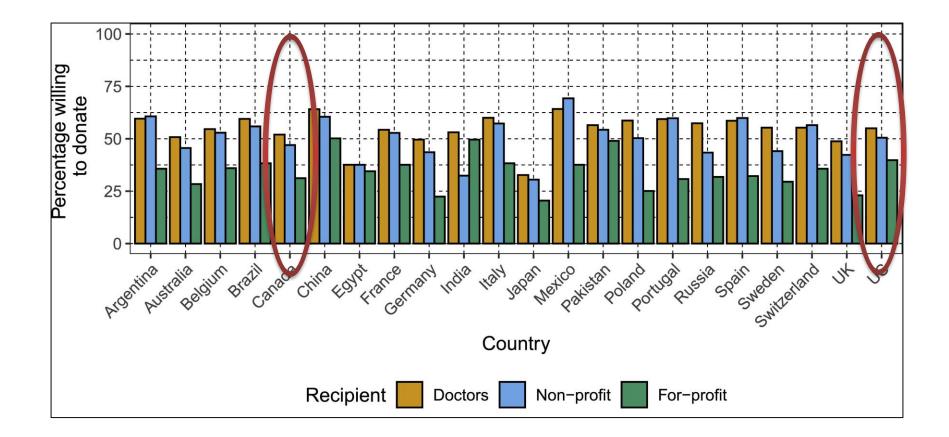
Analyzing genomic data across populations is central to understanding the role of genetic factors in health and disease. Successful data sharing relies on public support, which requires attention to whether people around the world are willing to donate their data that are then subsequently shared with others for research. However, studies of such public perceptions are geographically limited and do not enable comparison. This paper presents results from a very large public survey on attitudes toward genomic data sharing. Data from 36,268 individuals across 22 countries (gathered in 15 languages) are presented. In general, publics across the world do not appear to be aware of, nor familiar with, the concepts of DNA, genetics, and genomics. Willingness to donate one's DNA and health data for research is relatively low, and trust in the process of data's being shared with multiple users (e.g., doctors, researchers, governments) is also low. Participants were most willing to donate DNA or health information for research when the recipient was specified as a medical doctor and least willing to donate when the recipient was a for-profit researcher. Those who were familiar with genetics and who were trusting of the users asking for data were more likely to be willing to donate. However, less than half of participants trusted more than one potential user of data, although this varied across countries. Genetic information was not uniformly seen as different from other forms of health information, but there was an association between seeing genetic information as special in some way compared to other health data and increased willingness to donate. The global perspective provided by our "Your DNA, Your Say" study is valuable for informing the development of international policy and practice for sharing genomic data. It highlights that the research community not only needs to be worthy of trust by the public, but also urgent steps need to be taken to authentically communicate why genomic research is necessary and how data donation, and subsequent sharing, is integral to this.

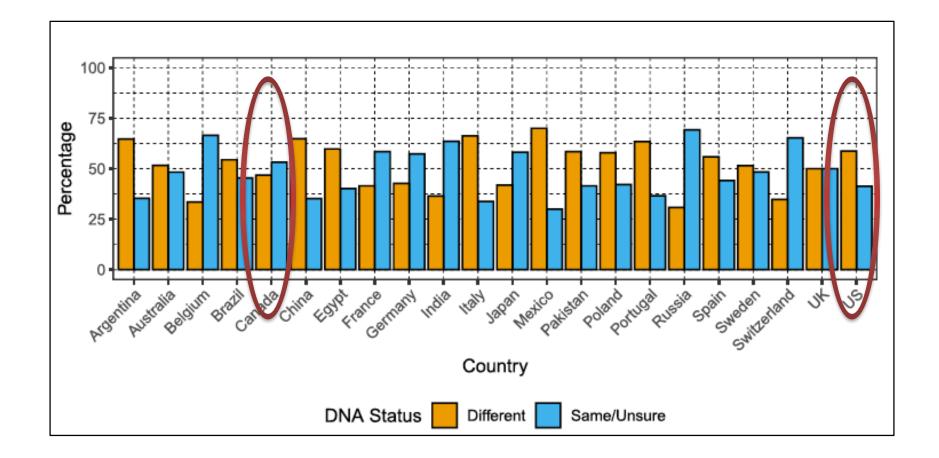
¹Society and Ethics Research Group, Connecting Science, Wellcome Genome Campus, Cambridge CB10 1SA, UK; ²Faculty of Education, University of Cambridge, Cambridge CB2 8PQ, UK; ³Institute of Public Health, University of Cambridge, Cambridge CB2 0SR, UK; ⁴Wellcome Sanger Institute, Cambridge CB10 1SA, UK; Skeynote IAS, New Delhi 110060, India; Russian Medical Academy of Continuous Professional Education, Moscow 119049, Russia; 7EMBL-EBI, Wellcome Genome Campus, Cambridge CB10 1SA, UK; ⁸Medical Ethics Program, Peking University Health Science Center, Beijing 100191, China; ⁹Department of Psychological Sciences, Swinburne University of Technology, Melbourne, VIC 3122, Australia; ¹⁰Centre for Law and Genetics, University of Tasmania, Hobart, TAS 7001, Australia; ¹¹Centre for Ethics & Bioethics, Uppsala University, Uppsala SE-751 22, Sweden; ¹²Ontario Institute for Cancer Or samaning, Marks Centre, Toronto, ON MSG 0A3, Canada; ¹³Department of Genetics & Molecular Medicine, Kamineni Hospitals, Hyderabad 500 068, India; ¹⁴SAAZ Genetics, Hyderabad 500033, India; ¹⁵Faculty of Humanities and Social Sciences, Hirosaki University, Hirosaki 036-8560, Japan; ¹⁶Department of Public Health and Caring Science, Uppsala University, Uppsala 751 22, Sweden; ¹⁷Department of Molecular Medicine and Surgery, Karolinska Institutet, Solna 171 76, Sweden; ¹⁸Research Centre for Medical Genetics, Moscow 115522, Russia; ¹⁹Independent Scholar, Warsaw, Poland; ²⁰Department of Epide-miology and Biostatistics, School of Health Sciences, Wuhan University, Wuhan 430071, China; ²¹Institute of Innovation Research, Hitotsubashi University, Tokyo 186-8603, Japan; ²²Centre of Genomics and Policy, McGill University, Montreal, QC H3A 0G1, Canada; ²³RAND Europe, Cambridge CB4 1YG, UK; 24Public Health, Department of Social Medicine, Osaka University Graduate School of Medicine, Osaka 565-0871, Japan; 25School of Public Health, Peking University Health Science Center, Beijing 100191, China; ²⁶EURAC, Institute of Biomedicine, Bolzano 39100, Italy; ²⁷UnIGENe and CGPP (Centre for Predictive and Preventive Genetics), IBMC (Institute for Molecular and Cell Biology), i3S (Instituto de Investigação e Inovação em Saúde), Universidade do Porto, Porto 4200-135, Portugal; 28 Uehiro Research Division for iPS Cell Ethics, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto 606-8507, Japan; 29 Genomics England, Queen Mary University of London, London EC1M 6BQ, UK; 30 Department of Political Science, University of Vienna, Vienna 1010, Austria; ³¹Department of Global Health & Social Medicine, King's College London, London WC2R 2LS, UK; ³²Diltec, Sorbonne Nouvelle, Paris 75005, France; ³³Landspitali, the National University Hospital of Iceland, Reykjavík 101, Iceland; ³⁴Institute of Sociology, RWTH Aachen University, Aachen 52062, Germany; ³⁵Indiana University Maurer School of Law, Bloomington, IN 47405, USA; ³⁶Work Research Institute (AFI), Oslo Metropolitan University, Oslo 0130, Norway; 37 Institute of Psychiatry, Psychology & Neuroscience, King's College London, London SE5 8AF, UK; 38 Centre for Epidemiology and Biostatistics, Melbourne School of Global and Population Health, The University of Melbourne, Melbourne, VIC 3010, Australia; 39 Medical Ethics, Lund Universitet, Lund SE-221 00, Sweden

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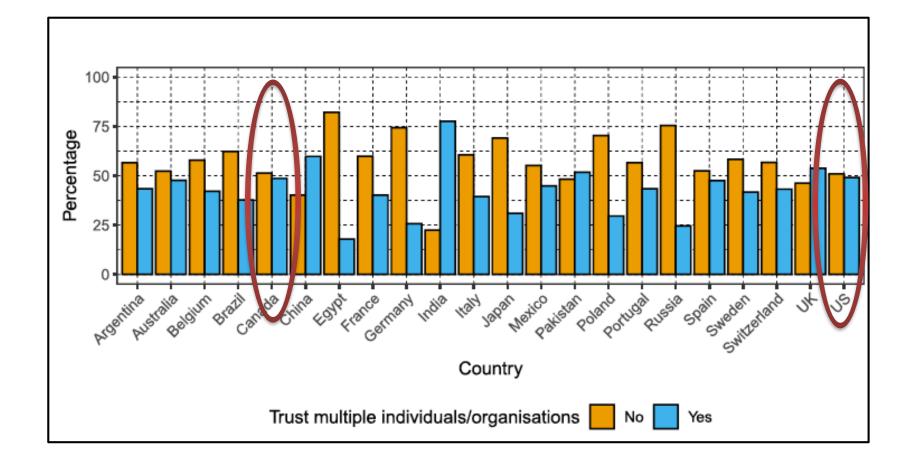
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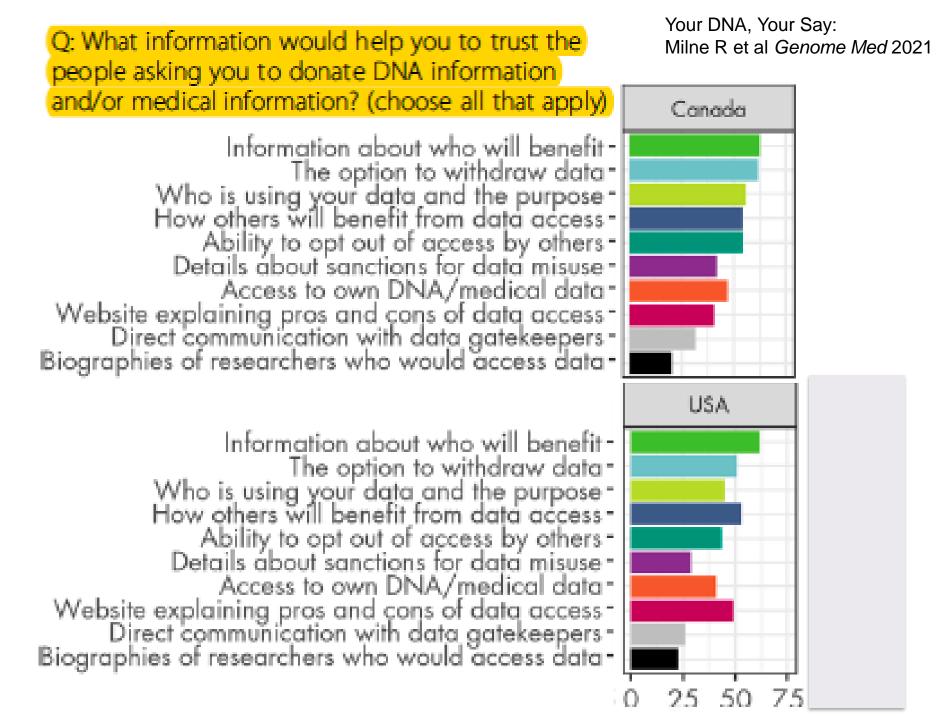
The American Journal of Human Genetics 107, 743-752, October 1, 2020 743





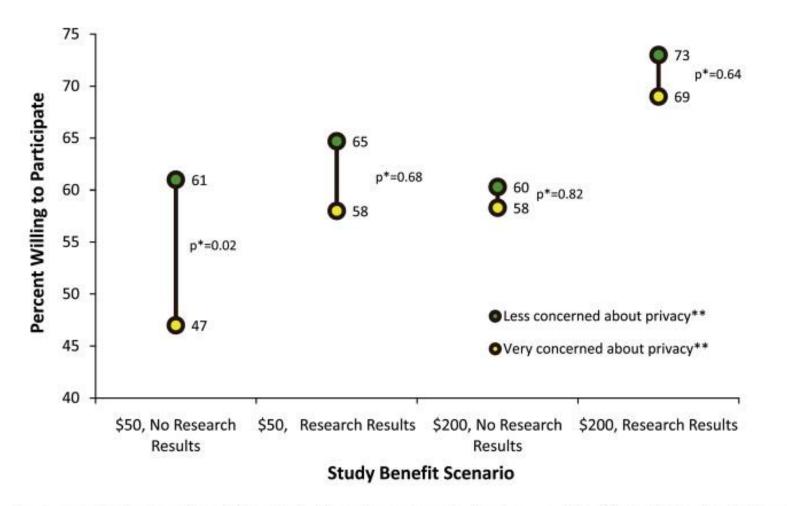
(Building) Trust





		Occurrence		
	Theme	(n = 22)	Representative quotes	
	Trust in the Health System	9	"I think with the reputation and just	
			being attached to [the university] somehow, I think there is a	
			pretty good chance that it's secure. I am	
\backslash			really not concerned about that" (p. 4540).	
	Sharing Information with the Biobank is Low Risk	8	"I know there's certain DNA that's in blood that they could	
	Low rush		match. But other than	
			that, I mean my blood	
			sample, I don't see that they would be	
			able to take anything	
			out of the blood	
			without matching it	
			with something else	
			to know that it's me" (p. 4982).	
	Assume Sharing Will	14	"I would assume it	
	be Limited to		would be for their	
	Trusted Entities		purposes, that it	
			wouldn't be like	
			somewhere in Illinois	
			is asking for you to	
			send my information.	
			[] It would stay	
			within [the health	
			system] or the university" (p. 1788).	
	De-identification	12	"Even if oney have	
	Means Safety is	12	access to the medical	
	Guaranteed		history, it's more in an	
			anonymous fashion	
			that's not going to be	
			able to easily identify	
			me." (p. 5179)	
				•

Return of Results



*p values are for the comparison of the odds that those less concerned with privacy would participate to the odds that those very concerned would participate, adjusting for age, gender, race and ethnicity, household income, and education.

**These categories represent those who said they would be "very concerned" about "protecting my privacy" if they were participating in the study and those who said they would be somewhat concerned, a little concerned ,or not at all concerned

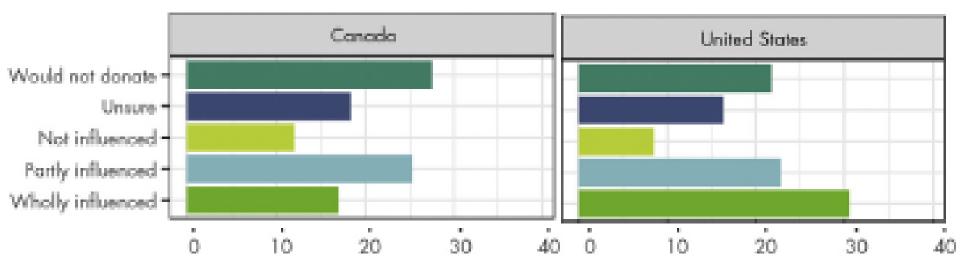
Value of items that could be returned from a study, by educational attainment of respondents to the Return of Value survey, 2018

	Educational attainment							
ltem	All participants (N = 2,549)	High school or less (n = 569)	Some college (n = 685)	College graduate (n = 688)	Advanced degree (n = 597)			
How I may respond to some medications based on my genetics ^a	6.30	5.78	6.40	6.50	6.44			
How my genetics affect my risk of getting a medical condition ^a	6.28	5.74	6.41	6.44	6.46			
How my lifestyle affects my risk of getting a medical condition ^a	5.98	5.62	6.08	6.12	6.06			
Information about clinical trials near me ^a	5.81	5.43	6.05	5.92	5.80			
Information about how researchers are using my information ^a	5.77	5.53	5.78	5.84	5.92			
My ancestry ^a	5.70	5.42	5.91	5.74	5.69			
Monetary compensation for taking part in the study	5.64	5.60	5.64	5.67	5.64			
Basic information about me (my lab results, survey responses, height, weight, etc.)	5.39	5.46	5.38	5.36	5.37			
Information from my medical record ^a	5.35	5.50	5.54	5.28	5.09			
How my health and behaviors compare to others'	5.31	5.18	5.47	5.32	5.25			
My genetic traits	5.29	5.38	5.39	5.20	5.23			
How to connect with others like me in the study"	4.08	4.52	4.22	3.89	3.76			

source Authors' analysis of Return of Value survey data from 2018. **Notes** Ratings used a scale from 1 ("not valuable") to 7 ("very valuable"). A fuller version of the exhibit is available in appendix exhibit A6 (see note 16 in text). "Some college" and "advanced degree" are explained in the notes to exhibit 1. Ten participants did not provide their educational attainment levels. "Bonferroni corrected p < 0.000055 (p values are from an F test for analysis of variance for differences in means).

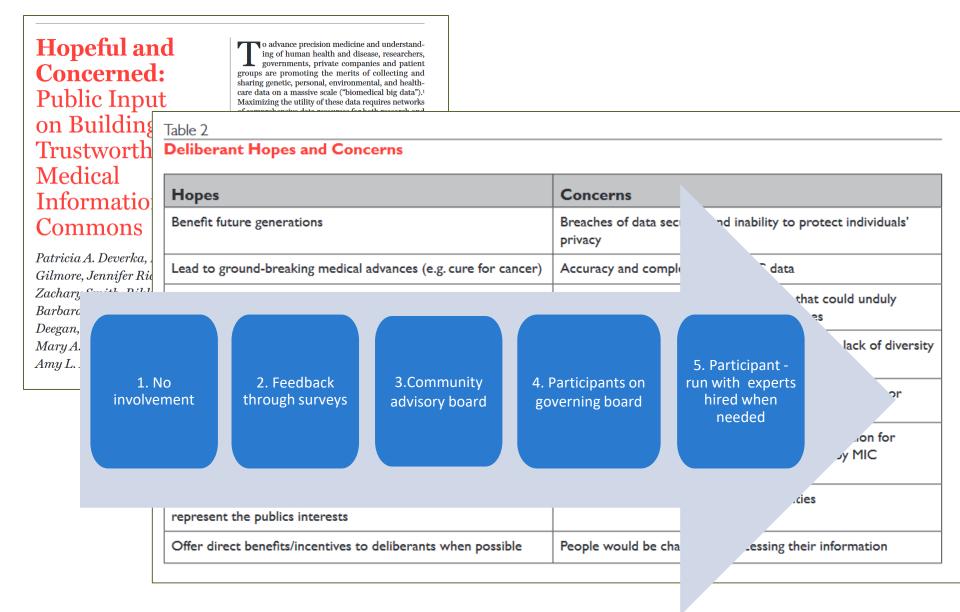
Wilkins C et al. Understanding what information is valued by research participants, and why. Health Aff 38;2019: 399-407.

Let's assume you were asked to consider donating your DNA information for research. Would being offered a DNA readout influence your decision to donate?



Your DNA, Your Say: Milne F et al. *Genet Med* 2022

Governance



Indigenous Groups

Should Navajo Nation moratorium
on genetic research be lifted?Not sure316 (46%)Yes251 (36%)No122 (18%)

Claw KG et al. Perspectives on genetic research: Results from a survey of Navajo community members. Front Genet 12;2021

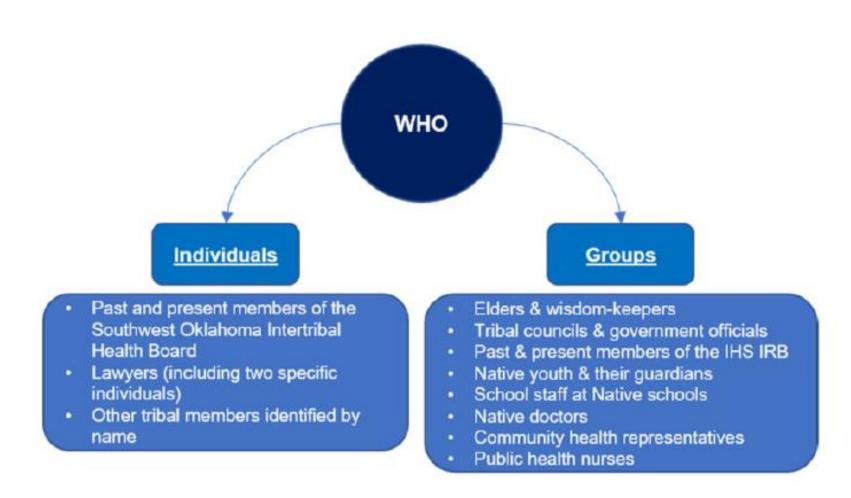
Comment Examples

"We need to have more information on the subject."

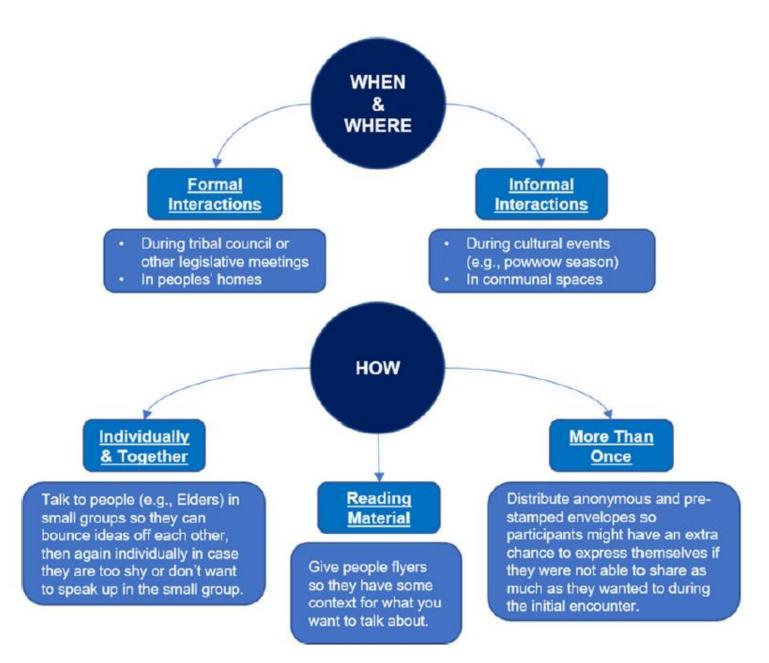
"This isn't a simple question of 'yes, it should be lifted' or 'no, it should not be lifted.' The NN need to have the proper staff, resources, policies, procedures, and infrastructure in place to exercise appropriate oversight and to protect our people."

Majority rated "Very important":

- Data sharing protections in place
- Research benefits to Navajo tribe
- Inclusion of cultural knowledge



Triplett C, et al. Codesigning a community-based participatory research project to assess tribal perspectives on privacy and health data sharing: A report of the Strong Heart Study. *JAMIA* 29;2022: 1120-1127



Triplett C, et al. 2022



https://www.gida-global.org/care



https://fnigc.ca/ocap-training/

Summary

Concerns/Consent

- Data hoarding violates the expectations and wishes of many participants
- Most participants want to be asked and prefer to be given choices, have reservations about sharing with for-profits, government
 - But in practice, most willing to consent to broad data sharing
- Not accommodating all preferences in policies ≠ violating rights BUT

Context

- Steps can be taken to increase comfort/trust, demonstrate respect, and establish trustworthiness (e.g., deidentification, return of value, care re access rules and other aspects of governance including participant voice, vigilance re privacy and security)
- Especially important if aiming for more representative data resources

Cautions

- Groups with cause for greater concern, sensitive research: special measures to involve and protect warranted
- Requires different mindset (e.g., communal focus, much longer time horizon, ceding control)

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