The *All of Us* Research Program and Public Libraries

Engagement Strategies for Creating a Research-Informed Community





The Precision Medicine Initiative (PMI)

A federal effort launched in 2015.

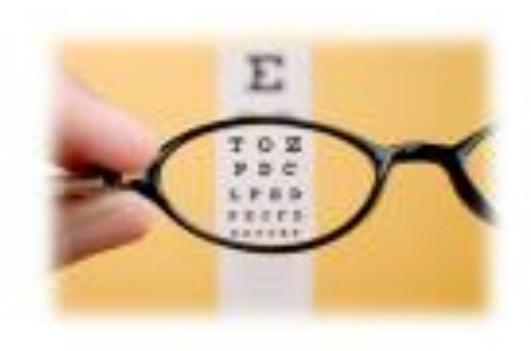
MISSION: To enable a new era of medicine through research, technology, and policies that empower participants, researchers, and providers to work together toward development of individualized care



Genes + Environment + Lifestyle = Health Status



Precision Medicine in Real Life Right treatment for the right person --



Prescription Eyeglasses



Insulin Pump



Blood Transfusions



Hearing Aid

One-size fits-all medicine

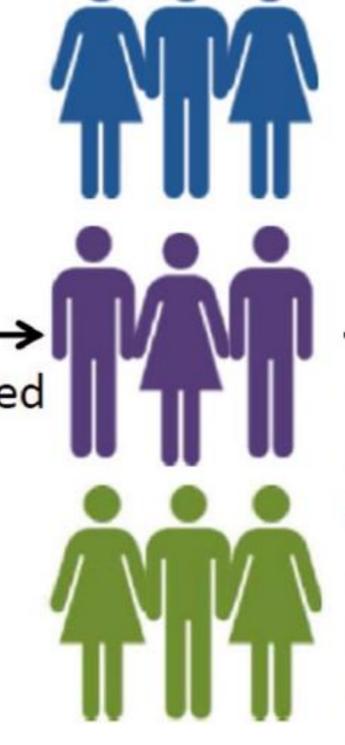
Stratified medicine

Precision medicine



Stratification

Patients are grouped by: Disease Subtypes Demographics Clinical features Biomarkers

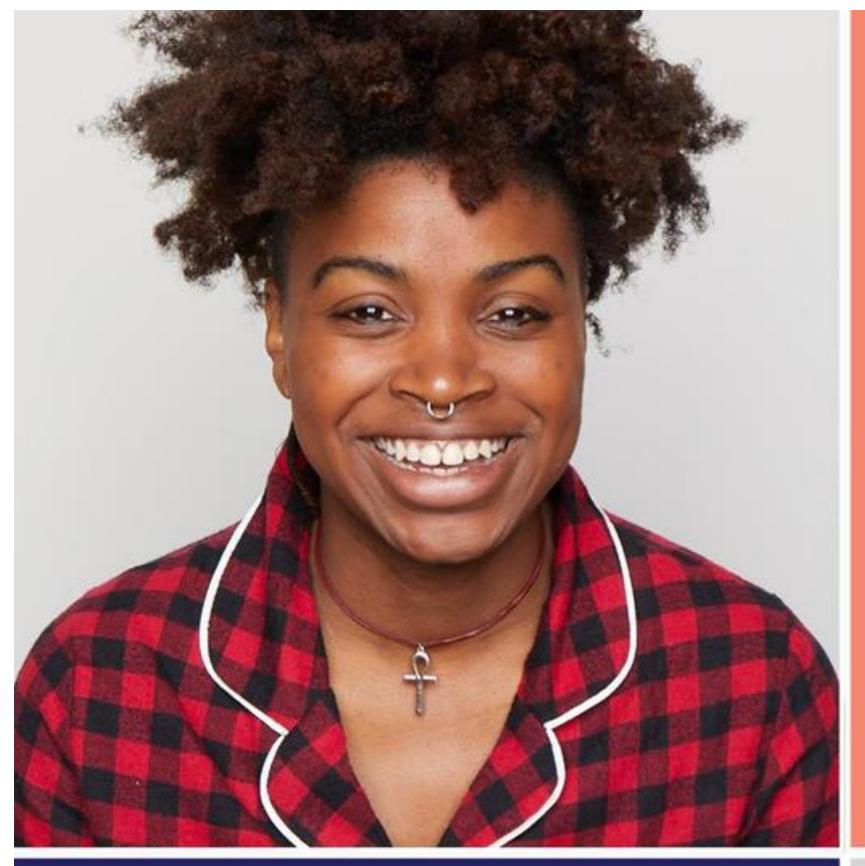


Personalisation

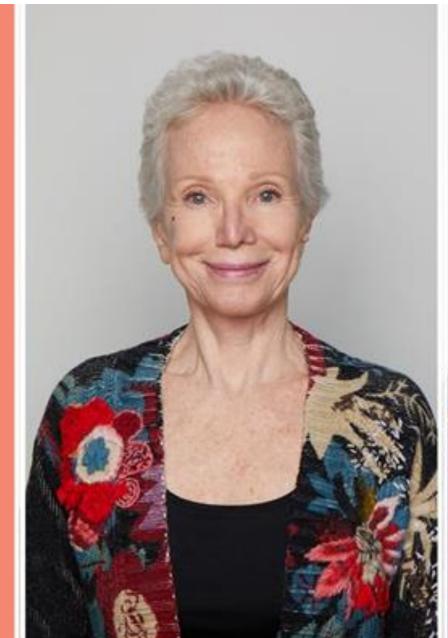
Patient individual:
Preferences,
Clinical features
Medication history
Environment
Behaviours & habits
Biomarker



Precision medicine



The future of health begins with you













Overview of All of Us Research Program



All of Us Research Program Data

The cornerstone of the larger Precision Medicine Initiative—led by the National Institutes of Health

The program will start by collecting data from sources that will include:

- Health questionnaires
- Electronic medical records
- Physical measurements
- Biospecimens (blood and urine samples)
- Mobile/wearable technologies
- Environmental data

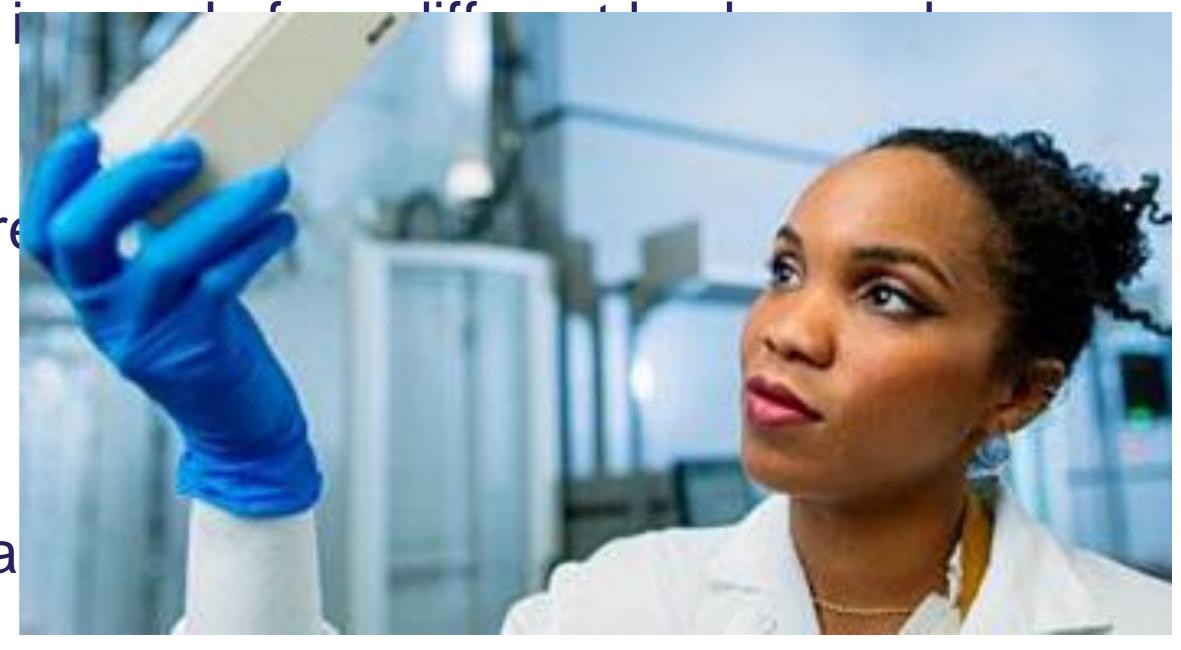
Data types will grow and evolve with science, technology, and trust.



Scientific Opportunities

- Be able to measure estimates of risk for a range of diseases
- Study how genes affect a person's response to medicine = pharmacogenomics
- Discover biological markers that signal increased or decreased risk of developing common diseases
- Develop solutions to health disparities i education, ethnicities, etc..
- Use mobile health technologies to get re exposures

- Empower study participants with data a
- Open the door for more clinical trials



How to Join All of Us

- Complete informed consent online or on smartphone
- Complete 3 surveys about lifestyle habits, overall health, and demographics
- Visit to enrollment center to provide physical measurements
 - Height, weight, blood pressure, heart rate, hip and waist circumference, blood and urine samples
- Participants receive \$25 compensation and future return of results

All of Us Pennsylvania Community Engagement Strategies

- Consistent presence at community health fairs, festivals, and conferences
 - Tabling displays
 - Lunch and Learn staff education
- Partnering with community leaders and agencies
 - Churches, libraries, non-profits, YMCAs, FQHCs, and more
- Mobile clinic team to reach communities with barriers to access

National Network of Inaugural Partners

National Partners

Regional Medical Centers

FQHCs

Community Partners



Current Consortium Members

DV Network

(Direct Volunteers)





Biobank







HPO Network

(Health Care Provider Organizations)



California Precision Medicine Consortium Illinois Precision Medicine Consortium New England Precision Medicine Consortium

Trans-American Consortium for the Health Care Systems Research Network

New York City Precision Medicine Consortium

Well Cornell Medicine

Southern All of Us Network

SouthEast **Enrollment Center**





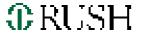
Kork Medical Center of USC







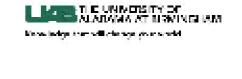
Blood Bank (Croates Strate















Medical Centers

Ullealth



















III HOSPITAL



















Barriers to participating in research

I'm interested but...

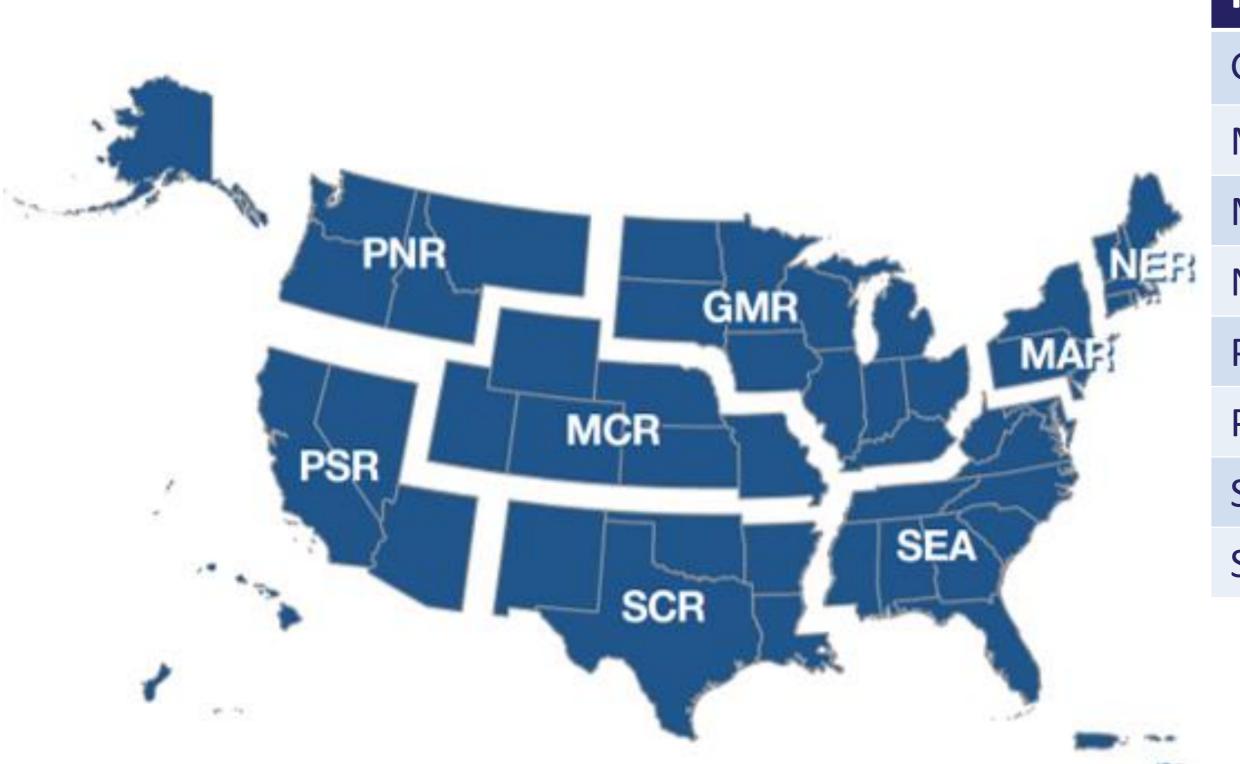
- Researchers aren't honest about their intentions.
- •Researchers aren't honoring my right to privacy.
- Researchers aren't personable.
- Researchers make me feel more like a patient and less like a partner.
- Researchers don't provide explanations for rejections from studies.

Solutions for Overcoming Barriers:

- •Invest time in building trusting, long-term relationships
- Accommodate participants' needs
- Be prepared to participate equally, honestly, and deeply
- Make research relevant to participants
- Work with a community liaison who knows population well

The All of Us and NNLM Partnership

National Network of Libraries of Medicine



	Regional Medical Libraries (RMLs)	
	Greater Midwest Region (GMR)	University of Iowa
	Middle Atlantic Region (MAR)	University of Pittsburgh
	MidContinental Region (MCR)	University of Utah
1	New England Region (NER)	University of Massachusetts
	Pacific Northwest Region (PNR)	University of Washington
	Pacific Southwest Region (PSR)	University of California Los Angeles
	South Central Region (SCR)	University of North Texas
	Southeastern/Atlantic Region (SEA)	University of Maryland

National Offices (Institution) DOCLINE Coordination (UMD) Evaluation (UW) Public Health Coordination (UMass) Training (Utah) Web Services (Pitt)

NNLM All of Us Community Engagement Network









Why Public Libraries?



Libraries are in a unique position to bring together the people, programs, and partners necessary to make health information and services accessible to everyone.

URL for Health Happens in Libraries

Health Information in Public Libraries

PEOPLE





of those who have gone online at a library using its computers, internet connections or Wi-Fi have done so for health-related searches.



Almost 3 in 4 say libraries help people find the health information they need

When community members don't have access to health information, services, and technology, they

- USE FEWER PREVENTATIVE SERVICES
- NOW LESS ABOUT CHRONIC DISEASE MANAGEMENT
- ARE HOSPITALIZED MORE OFTEN
- REPORT POORER HEALTH STATUSES

NNLM All of Us Community Engagement Activities













Activities and Outreach

- 1. Training opportunities on NLM's trusted consumer health information
- 2. Funded projects supporting community library and health organizations
- 3. Making community connections

Training Support Examples



Funding and Programming Support Examples



The Immortal Life of Henrietta Lacks

National Family Health History Day

NNLM Reading Club Selection Guide: Family Health History

Americans know that family history is important to health. A recent survey found that 96 percent of Americans believe that knowing their family

history is important. Yet, the same survey found that only 33 percent of Americans has tried to gather and write down their family's health

She Has Her Mother's Laugh

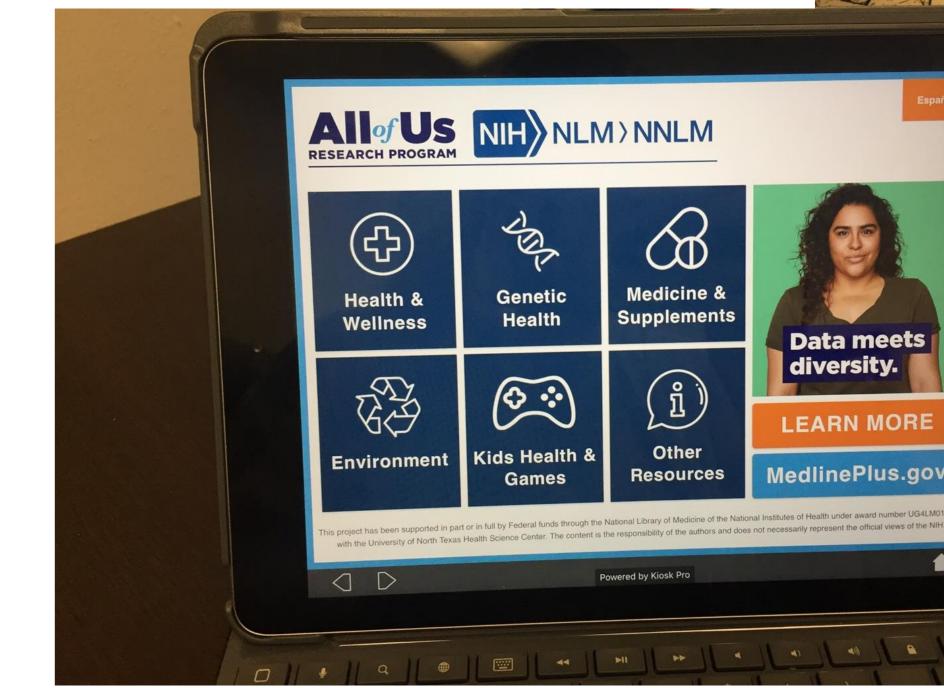
It's All Relative

Family Health History Resources

Air Quality Awareness Week begins April 29th

Learn more about your environmental health in **ToxTown** (toxtown.nlm.nih.gov), a resource of the **National Library of Medicine**.





TOXTOWN

NNLM All of Us Community Engagement Activities













Partnerships

- 1. Public Library Association
- 2. Collaborative Summer Library Program
- 3. All of Us Consortium Members
- 4. All of Us Journey

Collaborations with All of Us Research Program

All of Us Journey

- Host the Journey at an event
- Volunteer

2/11 - 2/17	Jackson, MS
2/18 -2/24	Memphis, TN
2/25 – 3/3	Louisville, KY
3/4-3/10	Charlotte, NC
3/11 – 3/17	Raleigh, NC
3/18 - 3/24	Takoma Park/Baltimore, MD
3/25 – 3/31	Washington DC
4/1-4/7	Germantown, MD
4/15-4/21	Philadelphia, PA
4/22-4/28	Philadelphia, PA
4/29 – 5/5	New Brunswick & Newark, NJ
5/6 - 5/12	Bridgeport & Middletown, CT
5/13 - 5/19	Danbury & Stamford, CT
5/20 - 5/ 26	Boston, MA
5/27 - 6/2	Harrisburg, PA
6/3 - 6/9	Youngstown & Warren, OH
6/10 - 6/16	Columbus, OH
6/17 – 6/ 23	Cincinnati, OH
6/24 – 6/30	Dearborn & Detroit, MI
7/8 - 7/14	Grand Rapids, MI
7/15 – 7/21	South Bend, IN
7/22 – 7/28	Chicago, IL
7/29 – 8/4	Elgin, IL







Collaborations with All of Us

- Presentation and Classes
- Amplifying messages
- Connection to All of Us partners
- Raise awareness through National Health Observances
- Discussing All of Us in health programs

Contact Us

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