The *All of Us* Research Program

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*All of Us* Research Program

NIH National Institutes of Health
The All of Us Research Program is a historic, longitudinal effort to **gather data from one million or more people** living in the United States to **accelerate research and improve health**. By taking into account individual differences in **lifestyle, socioeconomics, environment, and biology**, we hope that researchers will one day uncover paths toward delivering **precision medicine** – or individualized prevention, treatment, and care – for all of us.

The All of Us Research Program is part of the broader Precision Medicine Initiative.

“All of Us is among the most ambitious research efforts that our nation has undertaken!”

*Former NIH Director Francis Collins, M.D., Ph.D.*
Integral to this mission is a commitment to health equity.
Enabling Research Discoveries that Drive More Precise Approaches to Care

Engages people & communities who have been left out of medical research in the past

Combines biological factors and social determinants on a large, inclusive scale

Easily accessible to any researcher with a secure internet connection

Follows participants as they move, age, and grow
Status of the *All of Us* Research Program (as of April 8, 2023)

- **Participants**: 785,000+
- **Electronic Health Records**: 432,000+
- **Biosamples**: 557,000+
- **Participants who have completed initial steps of the program**: 539,000+

**Race and Ethnicity**
- White: 53.1%
- Black, African American, or African: 16.9%
- Hispanic, Latino, or Spanish: 7.0%
- Asian: 3.2%
- More than one race/ethnicity: 1.6%
- None of these describe me: 1.0%
- Prefer not to say/Skip: 1.7%
- Middle Eastern/North African: 0.5%
- Native Hawaiian/Pacific Islander: 0.1%

**UBR Category**
- Race/Ethnicity (non-white race): 47.5%
- Healthcare Access (inadequate access): 27.9%
- Age at Consent (<18 and 65+): 26.4%
- Income (annual income ≤ $25k): 23.2%
- Disability: 20.1%
- Sexual and gender minorities: 10.4%
- Sexual Orientation (not straight): 10.0%
- Educational Attainment (less than GED): 8.7%
- Geography (rural area residents): 7.8%
- Gender Identity (not man or woman): 1.2%
- Sex assigned at birth (intersex): 0.02%
Engaging Communities Through Trusted Partners

Connections

Trust

Togetherness

Outreach

Education

Legacy
Genetic Ancestry and Traits (as of April 8, 2024)

297k+ participants were invited to receive their results

167k+ participants viewed their genetic ancestry results

170k+ participants viewed genetic trait results
Genomic Health-Related Return of Results (as of April 8, 2024)

Hereditary Disease Risk

*All of Us* currently looks for genetic variants in 59 genes associated with serious health conditions.

**Your result:**

Something very important for your health was found in your *BRCA1* gene.

**What does this mean?**

- If confirmed by a clinical DNA test, this result means that you are more likely to get some types of cancers than other people.
- It does not mean that you have some types of cancers.
- It does not mean that you will definitely get some types of cancers.
- This result is important and should not be ignored.

**Important!**

Share this report with your doctor.

- This report comes from a research program, so it is a research result. Your doctor will need to confirm these results with a clinical DNA test before using them in your care.
- Do not change your medical care before this result is confirmed by your doctor.
- Results provided are from an investigational device. An “investigational device” is a device that is the subject of a clinical study.

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Medicine and Your DNA

*All of Us* analyzes seven genes that can affect how bodies metabolize medicines.

**Your genes affect how we respond to medicines.**

They do that in many different ways. Some genes help move medicines to the right part of the body.

This test looked at a few of the genes in your DNA that can affect how medicines are used. The technical term for this kind of information is “pharmacogenetics.”

Doctors and pharmacists use this kind of information when they consider why medicines work differently for different people.

But doctors and pharmacists don’t make decisions based on just DNA. Some other important considerations can be age, weight, health, diet, and other medicines you are taking at the same time.

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**233k+** participants asked if they want health related results generated

**101k+** participants viewed HDR results

**97k+** participants viewed PGx results
Data Tiered Access Levels Enable Discovery

**PUBLIC TIER**

Public resources include:

- **Data Snapshots**: Aggregated, public-facing overviews of participant characteristics and data types
- **Data Browser**: Interactive preview into the *All of Us* dataset through public-facing aggregate data
  - Currently includes participant-provided survey responses, physical measurements, data from EHRs and wearables, and genomic data
- **Survey Explorer**: Details the questions included in each of the surveys
- **Research Projects Directory**: Descriptions of each research project within the Researcher Workbench

**REGISTERED TIER**

Registered researchers can access in-depth data and a variety of research tools to conduct a wide range of studies.

- Surveys
- Electronic Health Records
- Physical Measurements
- Wearables

Registered researchers with amended institutional agreements can access all of the data in the Registered Tier plus additional and expanded data types, including genomic data, real dates of health events, ICD codes, granular demographic data, and more.

**CONTROLLED TIER**

- Genomics
- Health and Lifestyle surveys

*Data have been processed to protect participant privacy*
Thank you to our 785,000+ participants!

AllofUs.NIH.gov
JoinAllofUs.org
ResearchAllofUs.org