AAMC Research on Care Community (ROCC) and AAMC Collaborative for Health Equity: Act, Research, Generate Evidence (CHARGE) Webinar

The All of Us Researcher Workbench Tool—Accessing and Using Data from the NIH’s All of Us Research Program

July 15, 2021
Moderators:

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Health Equity Research Analyst
AAMC

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Lead Specialist, Implementation Research & Policy
AAMC
Speakers:

Courtney Wallin, PhD
Research Engagement Lead
National Institutes of Health’s All of Us Research Program

Adrienne Roman, PhD
Project Manager, Data and Research Center
National Institutes of Health’s All of Us Research Program

Carrie Crook
Medical Student
Tulane University School of Medicine
The All of Us Researcher Workbench Tool—Accessing and Using Data from the NIH’s All of Us Research Program

July 15, 2021
Courtney Wallin, PhD, NIH’s All of Us Research Program
Adrienne Roman, PhD, All of Us Data and Research Center
Carrie Crook, Tulane University School of Medicine
Goals

- Share the mission and objectives of the All of Us Research Program
- Offer AAMC members an opportunity to learn more about the All of Us Research Hub and the Researcher Workbench
- Hear from a researcher exploring the All of Us Research Hub
Program Overview

Courtney Wallin, PhD
All of Us Research Program
Division of Engagement
National Institutes of Health
The *All of Us* Research Program: An Innovative Research Effort

- Diversity at the scale of 1 million people or more
- Focus on participants as partners
- Longitudinal design, ability to recontact
- **Multiple data types:** EHR, surveys, baseline physical measurements, biospecimens, genomics
- **National, open resource for all:** broadly accessible to all researchers with open-source software & tools
- **Security and privacy safeguards** for all participant data
All of Us Mission

Nurture relationships with one million or more participant partners, from all walks of life, for decades

Deliver the largest, richest biomedical dataset ever that is easy, safe, and free to access

Our Mission
To accelerate health research and medical breakthroughs, enabling individualized prevention, treatment, and care for all of us

Catalyze the robust ecosystem of researchers and funders hungry to use and support it

Build and maintain a strong All of Us Team capable of achieving the program’s mission
How will *All of Us* lead to discoveries?

**Participants Share Data**
Participants share health data online. This data includes health surveys and electronic health records. Participants also may be asked to share physical measurements and blood and urine samples.

**Researchers Study Data**
In the future, approved researchers will use this data to conduct studies. By finding patterns in the data, they may make the next big medical breakthroughs.

**Data Is Protected**
Personal information, like your name, address, and other things that easily identify participants will be removed from all data. Samples—also without any names on them—are stored in a secure biobank.

**Participants Get Information**
Participants will get information back about the data they provide, which may help them learn more about their health.

**Researchers Share Discoveries**
Research may help in many ways. It may help find the best ways for people to stay healthy. It may also help create better tests and find the treatments that will work best for different people.
Enable research that will:

- Increase wellness and resilience, and promote healthy living
- Reduce health disparities and improve health equity in populations that are historically underrepresented in biomedical research (UBR)
- Develop improved risk assessment and prevention strategies to preempt disease
- Provide earlier and more accurate diagnosis to decrease illness burden
- Improve health outcomes and reduce disease impact through improved treatment and development of precision interventions
Example Use Case: Blood Pressure

**Risk & Prevention**
How do age-related changes in blood pressure in children and young adults impact the development of hypertension and hypertension-related conditions in adulthood?

**Health Equity**
What is the impact of economic stability on rates of screening, likelihood of receiving treatment, and blood pressure levels?

**Wellness & Resilience**
What genomic, environmental, and lifestyle factors underlie the different patterns in age-related trajectories of blood pressure, thereby increasing or reducing the risk of high blood pressure?

**Diagnosis**
Does ambulatory blood pressure monitoring (ABPM) or home blood pressure monitoring (HBPM) provide a more accurate estimate of cardiovascular risk?

**Treatment & Outcomes**
What are effective and scalable community-based interventions to improve blood pressure levels, medication prescription and medication fill rates?
Creating a demographically diverse researcher cohort: promote responsible and ethical use of our data, return value to our participant communities, and accelerate research impact.

- Encouraging student assemblies and early-stage investigators: bring fresh, creative perspectives & innovative research outcomes.

- Ensuring access for researchers from various institutions/organizations: establish a truly equitable resource for all.

*All of Us* is committed to engaging diverse investigators to explore and interrogate our dataset.
Research Hub

Adrienne Roman, PhD
All of Us Data and Research Center
Vanderbilt University Medical Center
The *All of Us* Research Hub


[https://www.researchallofus.org/](https://www.researchallofus.org/)
Diverse data types are curated for research.

Data Collection from Consented Research Participants:
- Participant Surveys
- Electronic Health Records
- Physical Measurements
- Mobile/Wearable Tech
- Biospecimens (Coming later)

Data Curation:
- Raw Data Repository
- Curated Data Repository

Data Access through secure Google-Cloud-based platform

Research Hub
Principles of Access & Privacy: “Share Widely and Wisely”

**Broad and Open Access**
- A data resource for All of Us (Academic Researchers and Community Scientists)
- Removal of unnecessary barriers to access

**Commitment to Protecting Privacy**
- Privacy first, privacy always
- Strive to build a system that participants can trust
Data and resource access is tiered.

- **Individual Biospecimen and Participant Data** (Available in the future)
  - Could recontact participants, use biospecimens, issue new surveys or DHT, enroll in clinical trials

- **Controlled Tier** (Available in the future)
  - No obvious PII. Genomics, Clinical Narrative data, Data Linkages, Other Data Types

- **Registered Tier** (Available Now)
  - Surveys, EHRs, Physical Measurements
  - Exceeds HIPAA Safe Harbor Standards

- **Public Tier** (Available Now)
  - Summary Statistics Aggregate Counts

Resources:
- **Future ancillary studies**
- **Researcher Workbench** [ResearchAllOfUs.org/Apply/]
- **Data Browser** [databrowser.researchallofus.org]
Data from >315k participants are currently available for research.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Participant Count*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey</td>
<td>&gt;315,000</td>
</tr>
<tr>
<td>COPE Survey</td>
<td>&gt;63,000</td>
</tr>
<tr>
<td>Physical Measurement</td>
<td>&gt;265,000</td>
</tr>
<tr>
<td>Electronic Health Record</td>
<td>&gt;204,000</td>
</tr>
<tr>
<td>FitBit</td>
<td>&gt;8,000</td>
</tr>
</tbody>
</table>

*Counts reflect unique participants with ANY of data of the specified.
Participants included in *All of Us* research data are diverse.

<table>
<thead>
<tr>
<th>UBR Category</th>
<th>“New” CDR (% out of 315,007 participants)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At least one UBR</td>
<td>78%</td>
</tr>
<tr>
<td>Non-white race or Hispanic/Latino ethnicity</td>
<td>49%</td>
</tr>
<tr>
<td>Age &gt;= 65</td>
<td>27%</td>
</tr>
<tr>
<td>Less than GED</td>
<td>10%</td>
</tr>
<tr>
<td>Annual Income &lt;= $25k</td>
<td>28%</td>
</tr>
<tr>
<td>Sexual and Gender Minorities</td>
<td>13%</td>
</tr>
</tbody>
</table>
All of Us Research Data Pipeline

Data Collection from Consented Research Participants
- Participant Surveys
- Electronic Health Records
- Physical Measurements
- Mobile/Wearable Tech
- Biospecimens

Data Curation
- Raw Data Repository
- Curated Data Repository
  - Data Harmonization
  - Privacy
  - Methodology
  - QA/CC

Research Hub
- Data Access through secure Google-Cloud-based platform

Coming later
The Research Hub

The Research Hub is home to *All of Us* data, research tools, and research projects.

“**The Public Website**”

“**The Workbench**”
Public tools enable researchers to learn about data.

Data Snapshots

- Enrollment Numbers
  - Graph showing participant numbers with labels: 377,000+ Participants, 276,000+ Participants

Survey Explorer

- Survey Explorer
  - Survey: Medical research tools are valuable because they efficiently capture information on a variety of health-related topics. Participants in the study in AARP's program responded to various questions on a variety of topics, including demographics, health care, and lifestyle.
  - The program has tested each survey for reliability and validity. The survey process randomizes people from different educational backgrounds and geographic locations to capture a sample that reflects the U.S. population.
  - Participants complete the core survey (The Basics, Overall Health, etc.) monthly. They may complete additional surveys on health care access, personal and family medical history, and other topics.
  - Learn more about the All of Us Research Program at [https://www.researchallofus.org/](https://www.researchallofus.org/)

Data Browser

- Illustration of data browser interface
  - Top 10 by Descending Participant Counts
  - Categories: Pain, Disorder due to inf., Metabolic disorder, et al.
  - Health care access: Top Concepts (50 of 20776 concepts for this domain)

Source: [https://www.researchallofus.org/](https://www.researchallofus.org/)
Participants at a Glance

Enrollment Numbers
This graph represents participants who have consented to join the program and those who have completed all initial steps of the program. The initial steps are consenting, agreeing to share electronic health records, completing the first three surveys, providing physical measurements, and donating at least one biospecimen to be stored at the biobank.

The following numbers are approximate to protect participants’ privacy. Numbers are updated as of July 7, 2023.

391,000+
Participants

287,000+
Participants who have completed all steps of the program

100+
Funded Partner Organizations

350+
Sites Collecting Samples and Measurements

Outreach
These counts represent the number of program partner awards and enrollment sites launched. These numbers are updated on an as-needed basis.

Geography
This map reflects the number of participants in each state who have completed the initial steps of the program. The counts are updated daily. Note: Recruitment partners are located throughout the United States. Areas with a robust clinic presence will have a greater percentage of participants. As the program adds more sites and other ways to enroll, this map will become more uniform over time.
## Search Across Data Types

<table>
<thead>
<tr>
<th>EHR Domains:</th>
<th>Conditions</th>
<th>Drug Exposures</th>
<th>Labs &amp; Measurements</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Counts:</strong></td>
<td>24,770</td>
<td>27,311</td>
<td>13,631</td>
<td>27,702</td>
</tr>
<tr>
<td><strong>Participants:</strong></td>
<td>186.000 in this domain</td>
<td>174.600 in this domain</td>
<td>182.000 in this domain</td>
<td>182.000 in this domain</td>
</tr>
<tr>
<td></td>
<td>View Top Conditions</td>
<td>View Top Drug Exposures</td>
<td>View Top Labs &amp; Measurements</td>
<td>View Top Procedures</td>
</tr>
</tbody>
</table>

## Survey Questions:

<table>
<thead>
<tr>
<th>Domain:</th>
<th>Questions:</th>
<th>Participants</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Basics</td>
<td>28</td>
<td>296.700</td>
<td>This survey includes participant demographic information.</td>
</tr>
<tr>
<td>Oral Health</td>
<td>21</td>
<td>296.700</td>
<td>Survey includes information about how participants report levels of oral health.</td>
</tr>
<tr>
<td>Lifestyle</td>
<td>26</td>
<td>296.700</td>
<td>Survey includes information on participant smoking, alcohol, and recreational drug use.</td>
</tr>
<tr>
<td>Personal Medical History</td>
<td>465</td>
<td>85.640</td>
<td>This survey includes information about past medical history, including medical conditions and approximate age of diagnosis.</td>
</tr>
<tr>
<td>Health Care Access &amp; Utilization</td>
<td>57</td>
<td>389.849</td>
<td>Survey includes information about a participant's access to and use of health care.</td>
</tr>
<tr>
<td>Family Health History</td>
<td>186</td>
<td>92.080</td>
<td>Survey includes information about the medical history of a participant’s immediate biological family members.</td>
</tr>
<tr>
<td>COVID-19 Participant Experiences (COPE)</td>
<td>166</td>
<td>82.930</td>
<td>Survey includes information about the impact of COVID-19 on participant mental and physical health.</td>
</tr>
</tbody>
</table>

## Physical Measurements and Wearables:

<table>
<thead>
<tr>
<th>Domain:</th>
<th>Measurements</th>
<th>Participants</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Physical Measurements</td>
<td>8</td>
<td>209.700</td>
<td>Participants have the option to provide a standard set of physical measurements as part of the enrollment process (&quot;program physical measurements&quot;).</td>
</tr>
<tr>
<td>Fitbit</td>
<td>4</td>
<td>6,660</td>
<td>Fitbit data includes heart rate and activity summaries.</td>
</tr>
</tbody>
</table>
Publications

The stories, projects, & publications made possible by All of Us are shared publicly & transparently.

Source: https://www.researchallofus.org/
Research Projects Directory

627 ACTIVE PROJECTS
This information was updated 9/8/2021

Information about each project within the Researcher Workbench is available in the Research Projects Directory below. Approved researchers provide their project’s research purpose, description, populations of interest, and more. This information helps All of Us ensure transparency on the type of research being conducted.

At this time, all listed projects are using data in the Registered Tier. The Registered Tier contains individual-level data from electronic health records, surveys, physical measurements, and wearables. Personal identifiers have been removed from these data to protect participant privacy.

Note: Researcher Workbench users provide information about their research projects independently. Views expressed in the Research Projects Directory belong to the relevant users and do not necessarily represent those of the All of Us Research Program. Information in the Research Projects Directory is also cross-posted on AllOfUs.nih.gov in compliance with the 21st Century Cures Act.

Search By:  
Project title: enter keywords you are looking for

Erwin Update: DJJS: Duplicate of JAMA PheWAS Final Review 07-06-2021
As a demonstration project, this study will present the results of Phenome-Wide Association Studies (PheWAS) to show how the various sources of data contained within All of Us research dataset can be used to inform scientific discovery. We will perform...

DJJS: Duplicate of JAMA PheWAS Final Review 07-06-2020
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ARI Workspace V4
The goal of our research is to determine prevalence of autoimmune diseases, individually and as a class of disease, in the US. This work will help understand the likelihood of having autoimmune disease and we hope it will improve the...
Spotlights

Meet the Researchers

A new study to better understand the health outcomes of sexual and gender minority people

Meet Dr. Mitch Lunn. He's on a mission to better understand and support the health needs of sexual and gender minority people.

Meet the Researchers

An exploration of reproductive health issues that disproportionately affect Black women

Meet Dr. Nyia Noel, an OBGYN at a Boston hospital, is leveraging the All of Us Research Program dataset to study hypertensive disorders in pregnancy and uterine fibroids.
LEARN MORE ABOUT THE DATA AVAILABLE

Explore what data are currently available with the Data Browser and view the amount of information available with the Data Snapshots. Then, learn about the Data Access & Use Policies and our workbench.

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COMPLETE ALL OF US RESPONSIBLE CONDUCT OF RESEARCHER TRAINING

Understand more about our privacy safeguards and the ethics surrounding the use of participant data.

SIGN DATA USER CODE OF CONDUCT

Sign the Data User Code of Conduct.
The Researcher Workbench

A secure enclave where researchers access & analyze All of Us data.
The Workbench offers analysis tools & resources.

**WORKSPACES**
USES: Organizing research projects, collaboration, transparency

**NOTEBOOKS**
USES: Analysis, queries

**DATASET BUILDER**
USES: Pre-populated analysis, dataset previews

**COHORT BUILDER**
USES: Cohort creation

**WORKBENCH USER SUPPORT HUB**
USES: Learning, support, guides
Already have a Researcher Workbench account?

Sign In

 Trouble Signing in?

Don't have an account?

CREATE ACCOUNT

WARNING NOTICE
You are accessing a website created by the All of Us Research Program, funded by the National Institutes of Health.

Unauthorized attempts to upload information, change information, or use of this website may result in disciplinary action, civil, and/or criminal penalties.

Unauthorized use of this website should have no expectation of privacy regarding any communications or data processed by this website.

By continuing to log in, anyone accessing this website expressly consents to monitoring of their actions and all communications or data transferred or stored on related to this website and is advised that such monitoring serves possible evidence of criminal activity. NIH may provide that evidence to law enforcement officials.
Welcome to the RESEARCHER WORKBENCH
The secure platform to analyze All of Us data

Workspaces

- HbA1c Distributions of Type 2 Diabetics
  - Owner: Last changed: 03/26/20, 02:01 PM

- Original - How to Get Started with Registered Tier Data
  - Reader: Last changed: 03/26/20, 09:46 AM

- R2019Q4R3 - How to Get Started with Registered Tier Data
  - Reader: Last changed: 12/06/20, 01:25 PM

- How to Work with All of Us Survey Data
  - Reader: Last changed: 01/06/21, 01:39 PM

Recently Accessed Items

<table>
<thead>
<tr>
<th>Item type</th>
<th>Name</th>
<th>Workspace name</th>
<th>Last changed</th>
<th>Dataset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cohort</td>
<td>T2D_survey-any_hba1c</td>
<td>HbA1c Distributions of Type 2 Diabetics</td>
<td>May 14 2020</td>
<td>All of Us Dataset v3</td>
</tr>
<tr>
<td>Cohort</td>
<td>test</td>
<td>Type 2 diabetes Test with Lou</td>
<td>Apr 28 2020</td>
<td>All of Us Dataset v3</td>
</tr>
<tr>
<td>Notebook</td>
<td>Medication Sequences Code</td>
<td>Medications pathway (sequences) - Phase 1</td>
<td>Apr 27 2020</td>
<td>All of Us Dataset v3</td>
</tr>
<tr>
<td>Notebook</td>
<td>test</td>
<td>Feedback</td>
<td>Apr 23 2020</td>
<td>All of Us Dataset v3</td>
</tr>
<tr>
<td>Notebook</td>
<td>Concept Longitudinal CDR</td>
<td>CDR Characterization</td>
<td>Apr 23 2020</td>
<td>All of Us Dataset v3</td>
</tr>
</tbody>
</table>

Showing 5 most recent items

Quick Tour and Videos

- Workbench Quick Tour
- Introduction to the Researcher Workbench: 2:31
- Cohort Builder & Cohort Review: 2:26
- Dataset Builder & Concept Sets: 2:43
- Notebooks & Code Snippets: 2:54
Cohort + Dataset Builders

All of Us RESEARCHER WORKBENCH

Cohorts
A cohort is a group of participants based on specific criteria.

Datasets
A dataset is a table containing data about a cohort that can be exported for analysis.

Help Tips
Search

Cohorts
A "cohort" is a group of participants that a group of researchers are interested in. The cohort builder allows you to create and review cohorts and annotate participants in a researcher's study group.

Concept Sets
Concepts describe information in a patient's medical record, such as a condition they have, a prescription they are taking, or their physical measurements. Subject areas such as conditions, drugs, measurements, etc. are called "domains." Concept sets are collections of concepts from a particular domain, that users can save and use to create a dataset for analysis.

Datasets
Datasets are analysis-ready tables that can be exported to analysis tools such as notebooks. Users can build and preview a dataset for one or more cohorts by selecting the desired concept sets and values for the cohorts.

Not finding what you're looking for? Visit our User Support Hub page or contact us.
4 Data Availability Part 2

How to delve a little deeper into data availability within each major data type (Modules 1-6, Physical 1

4.1 How many participants have data for each survey?
Tracking Social Determinants of Health Using *All of Us* Data

Carrie Crook  
Tulane University School of Medicine  
2021 *All of Us* Minority Student Research Symposium Scholar
Since 1987, pregnancy-related deaths have increased steadily in the US, and have disproportionately affected non-Hispanic Black women.

Multiple theories for the environmental and structural barriers contributing to maternal-infant health disparities have been explored.

Previous studies have expanded the Minorities’ Diminished Returns Framework to evaluate disparities in maternal health outcomes like pre-eclampsia, low birth weight infants, and preterm birth.
Risk for preeclampsia (OR, 95% CI) for low SES white women, low SES Black women, and high SES Black women, compared with high SES White women, from a population-based California cohort of singleton births (2007–2012).

Research Questions

1. Is there an association between level of educational attainment, annual income, or housing situation and diagnosis of pre-eclampsia in the peripartum period?

2. Is there an association between annual income, educational attainment, or housing situation and preterm labor?
Proposed Methods

**Identification**

Using the All of Us Data Browser, identify individuals whose medical records contain ICD codes denoting “preterm/premature labor” and “pre-eclampsia.”

**Stratification**

Stratify these populations based on ethnicity, housing situation, socioeconomic status, and educational attainment using demographic information collected via survey.

**Analysis**

Subgroups can be compared using descriptive and comparison statistical analyses, using one-way ANOVA for continuous variables and chi-squared test for categorical variables.
## Data from All of Us Data Browser

<table>
<thead>
<tr>
<th>Proposed Metrics</th>
<th>Data Collected via All of Us Research Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preterm/Premature Labor</td>
<td>Premature Labor total: 2940</td>
</tr>
<tr>
<td></td>
<td>Preterm Labor with Preterm Delivery: 700</td>
</tr>
<tr>
<td></td>
<td>Preterm Labor without Delivery: 520</td>
</tr>
<tr>
<td>Pre-Eclampsia</td>
<td>1500</td>
</tr>
</tbody>
</table>
Survey Questions from All of Us Data Browser

What is your annual household income from all sources?
- Less than $10,000
- $10,000-$24,999
- $25,000-$34,999
- $35,000-$49,999
- $50,000-$74,999
- $75,000-$99,999
- $100,000-$149,999
- $150,000-$199,999
- $200,000 or more

Do you own or rent the place where you live?
- Own
- Rent
- Other arrangement

What is the highest grade or year of school you completed?
- Never attended school or only attended kindergarten
- Grades 1 through 4 (Primary)
- Grades 5 through 8 (Middle School)
- Grades 9 through 11 (some high school)
- Grade 12 or GED (High school graduate)
- 1 to 3 years after high school (Some college, Associate’s degree or technical school)
- College 4 years or more (College graduate)
- Advanced degree (Master’s, Doctorate, etc.)
- Prefer not to answer

Which categories describe you? Select all that apply.
Future Directions and Opportunities

- The All of Us Study provides a unique opportunity to understand the environmental characteristics of maternal populations with pre-eclampsia and preterm labor.
- Once the baseline characteristics are understood, researchers can evaluate how these environmental factors reduce or induce risk for pregnant women.
- Precision medicine can be combined with demographic and census data to provide tailored interventions to pregnant women at particularly high risk for pre-eclampsia or preterm labor.
Challenges using the All of Us Data Browser tool

- The utility of this proposal is limited by the presence or absence of identifiable genetic risk for the peripartum conditions.
- The Data Browser Tool contains de-identified data in aggregate.
- Mother-infant outcomes are not linked in the Data Browser tool.
Acknowledgments

A special thanks to my research mentors Dr. Anderson and Dr. Collins and the All of Us Inaugural MSRS. Thank you to Dr. Wallin for the opportunity to present to you all.
References


What’s Next?

Courtney Wallin, PhD
All of Us Research Program
Division of Engagement
National Institutes of Health
Beta Phase of the Researcher Workbench

- *All of Us* is different from other research programs and launching in beta reflects our program’s iterative design.
- Currently, the Workbench supports R or Python coding languages. Additional analytical tools will come later.
- Researchers may apply for access to the Workbench if they:
  - Have an eRA Commons account
  - Are affiliated with U.S. institutions that have signed Data Use and Registration Agreement
- We welcome input from researchers during the beta testing phase to help make the Workbench more robust over time.
**STEP 1**
LEARN MORE ABOUT THE DATA AVAILABLE

Explore what data are currently available with the Data Browser, and view the amount of information available with the Data Snapshots. Then, learn about the Data Access & Use Policies and our workbench.

**STEP 2**
CHECK FOR YOUR INSTITUTION’S AGREEMENT

Check that your institution has signed the Data Use and Registration Agreement. If your institution is not listed, please fill out the form to initiate the process.

**STEP 3**
REGISTER AS A RESEARCHER

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**STEP 4**
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**STEP 5**
COMPLETE ALL OF US RESPONSIBLE CONDUCT OF RESEARCHER TRAINING

Understand more about our privacy safeguards and the ethics surrounding the use of participant data.

**STEP 6**
SIGN DATA USER CODE OF CONDUCT

Sign the Data User Code of Conduct.
Overview of Contracting Timeline (for the Registered Tier)

- **Researcher submits Institutional Agreement Request**
  - The researcher does this by completing the Step 2 request survey available on the Research Hub.

- **Internal processing**
  - DRC team pulls down requests daily and logs via internal process.

- **Contracting Contact outreach**
  - DRC contracting official reaches out to the contracting contact listed on the requester's form to provide background information, agreement template, and next steps.

- **Communication with Contracting Contact**
  - Until the DRC contracting official receives the partially executed contract, the contracting official follows up with each researcher provided contact every 2 weeks.

- **Execution of agreement and completion of domains form**
  - The contracting contact sends the partially executed contract and email domains form to the DRC contracting official who will fully execute the contract.

- **Institutional Access Granted**
  - Upon executing the contract, the DRC team configures access to the user institution and alerts the initial requestor to the access granted.

Timeline:
- 1-2 days following request
- 1-2 days following processing
- Timeline determined by institution
- 1-2 days following receiving partially executed DURA
- 1-2 days following executed DURA
- 1-2 days following institutional access granted
Tips and Tricks in the Contracting Process

- A contracting contact is anyone who can get the AoU Contracting team to the institutional signing authority for the respective institution or organization

- Go to your direct supervisor to confirm who your contracting contact is at your institution if you are unsure

- Contact your contracting contact ahead of time and brief them on the All of Us Research program before completing the access request form.

- Follow up periodically with your contracting contact to receive updates in the contracting process
How to Find Funding Opportunities

- Workbench users can explore funding opportunities to support their research:
  - Government-wide (NIH, CDC, CMS, NSF, etc.): https://www.grants.gov/web/grants/home.html
  - NIH Parent Announcements, including Training Grants: https://grants.nih.gov/grants/guide/parent_announcements.htm
  - Other NIH awards can be found by searching by terms: (e.g., “secondary data analyses”, “data science”) https://grants.nih.gov/funding/index.htm

Important Note: Any funding opportunities found via these links were not published by the All of Us Research Program; the program has involvement neither in the application review nor selection processes.
Funding Opportunity Example
RFA-HG-21-025: New Investigators to Promote Workforce Diversity in Genomics, Bioinformatics, or Bioengineering and Biomedical Imaging Research

- Intended to support:
  - Independent research projects (R01) that are within the scientific mission areas of the National Human Genome Research Institute (NHGRI), National Institute of Biomedical Imaging and Bioengineering (NIBIB), and All of Us Research Program.
  - Early Stage Investigators and New Investigators from groups underrepresented in the health-related sciences.

- Application due dates: August 3, 2021; February 22, 2022; February 22, 2023

Learn More and Help Us Spread the Word!

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