

All of Us | Researcher
RESEARCH PROGRAM | Academy

Encouraging Students into the World of Undergraduate Research through the *All of Us* Researcher Workbench

Dr. Kimberly Raiford, Dr. Alecia Anderton-Georgie, Dr. Dorothy Browne, Samira Briscoe
Shaw University Faculty

IRTI
INTERNATIONAL

Agenda

- Welcome & Logistics
- Community Campus Partnerships for Health (CCPH)
- New Directions in Health Research & Equity Webinar Series
- Presentations
- Q&A/Panel Discussion
- Announcements & Updates
- Attendee Insights (CCPH)
- Closing Remarks

Who We Are

Community-Campus Partnerships for Health (CCPH) promotes health equity and social justice through partnerships between communities and academic institutions.

We view health broadly as physical, mental, emotional, social and spiritual well-being and emphasize partnership approaches to health that focus on changing the conditions and environments in which people live, work, study, pray and play.



**Community-Campus
Partnerships for Health**
Promoting Health Equity and Social Justice

CCPH's *All of Us* Researcher Academy Team



Alan Richmond, MSW
Executive Director



Angela Balfour Franklin, MDiv
Engagement Lead



Paul J. Kuttner, EdD
Director of Partnerships

CCPH's *All of Us* HBCU/MSI Engagement



New Directions in Health Research & Equity Webinar Series

This six webinar series spotlights innovative scholarship leveraging publicly available data from the *All of Us* Research Program.

These scholars, members of the *All of Us* Researcher Academy network, are pushing the boundaries of health research and education through equity-focused questions, cutting-edge methods, and data that reflect the rich diversity of our country.



**Community-Campus
Partnerships for Health**
Promoting Health Equity and Social Justice

Using the *All of Us* Researcher Workbench as a Course-Based Undergraduate Research Experience (*CURE*)

Using the *All of Us* Research Workbench as a Course-Based Undergraduate Research Experience (CURE)

Overview

- How did I start?
CURE Course
- How well does it work?
Issues encountered and modifications year 2
- How did it end?
Presentations at the annual Shaw University Research Symposium

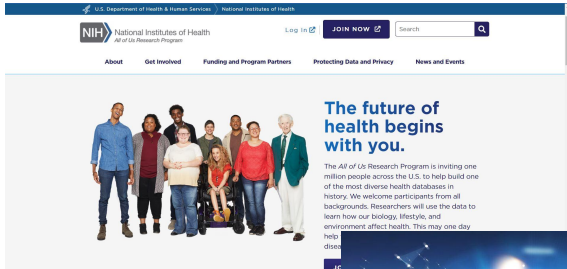


THE CURE COURSE

Biology majors at Shaw University must complete a Senior Capstone course that “is designed to integrate and assess skills and concepts acquired from the biology undergraduate courses, including classroom-based and experiential components. Comprehension competence of topics will be demonstrated in both written and oral forms by students.”

~ Shaw University. Course Catalog 2024-2025. [Shaw University Course Catalogue](#) Accessed 8 Nov 2024

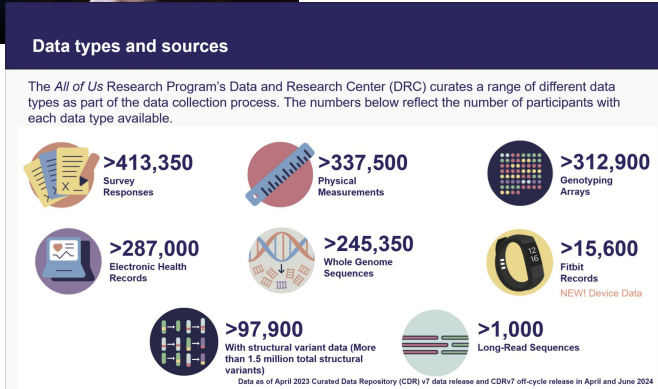
Course Overview



- Introduce Health Disparities



- Brainstorm and develop a study question



- Create and analyze datasets



- Present data

Course Activities

Research/Paper Topic Part 1

- Topic Assignment
- Completed draft 1 (Observation, Background, Define Study question)
- Peer Reviews
- Oral Presentation
- Final Paper

Research/Paper Topic Part 2

- Topic Assignment
- Completed draft 2 (Identify Dataset, Analysis of Data with R or Python)
- Peer Reviews
- Oral Presentation
- Final Paper

Research/Paper Topic Part 3

- Oral Presentation at Student Research Symposium
- Final Paper

Example of Topic Assignment

1. What observation did you make that led you to the framework of your project?
 - ***Ex. I'm interested in maternal health.***
2. What health disparities are associated with that observation?
 - ***Ex. Black women did a lot more than others during childbirth.***
3. Describe why your observation is/has a health disparities issue.
 - ***Ex. Inadequate access to prenatal health care. Doctors don't listen to women who complain with pain issues. Etc.***
4. What is your hypothesis?
 - ***Ex. Black woman will die at a higher rate than other women. Black women have more negative outcomes associated with postpartum recovery due to socioeconomic issues that I will identify.***

Example of Topic Assignment

5. What data in the *All of Us* dataset will you use?

A. Who are the subjects in the dataset that you will be conducting your study on? Why?

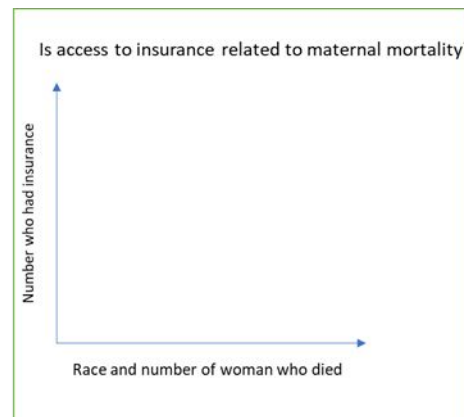
- ***Ex. Woman 18-50, women that have kids, all races, etc. I am looking to make comparisons between races with respect to my hypothesis.***

B. What other *All of Us* data are you using to study/analyze/support your hypothesis?

- ***Ex. Survey questions on whether they have insurance to address socioeconomic inequalities with respect to healthcare.***

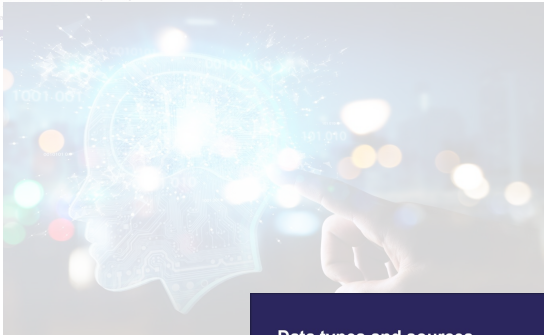
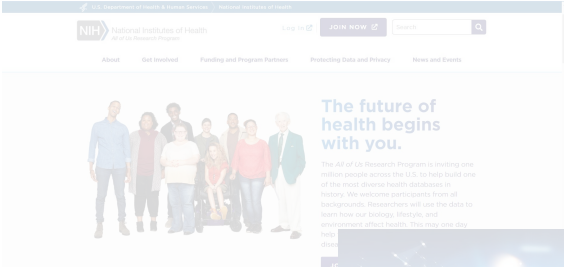
6. What analysis/graphical representations will you use to display the answers to your questions (results)?

- ***Ex.***

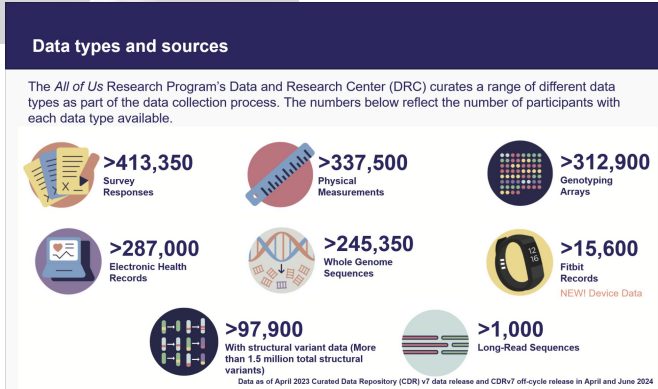


Course Overview

- Introduce Health Disparities



- Brainstorm and develop a study question



- Create and analyze datasets



- Present data

Issues encountered and modifications that were made year 2



Student Access to the Dataset



- Time Intensive
- International students can't pass verification step
- Frustrating with individual accounts



- Started earlier. Required checkpoint completions sooner.
- Everyone worked off professor account as class project



R and Python Language Learning Curve



- Time Intensive
- Students had no background
- Underestimated computer and networking speed that was needed



- Used computers hard wired into the network
- Trainings! Trainings! Trainings! Start day one
- Have students prepare datasets and run the data for them



Presentation at the Shaw University Student Research Symposium

Poster and Oral presentations

The Annual Shaw University (SU) Student Research Symposium (SUSRS) is an event that features oral and poster presentations of research projects and internships by students from departments and colleges across the Shaw campus and undergraduates from local universities. Students will have the opportunity to share their research and creative work with fellow peers, faculty, staff, administrators, and the broader community. |

The symposium will showcase ongoing research of the students from Shaw University. It will be an excellent venue to learn about exciting research, to exchange ideas, and to network. We warmly welcome undergraduates from Saint Augustine's University, North Carolina State University, North Carolina Central University, William Peace University, and Meredith University to participate in this scholarly event.

The goal of the SU Student Research Symposium is to help raise and maintain the quality of research and education at SU and partner with local universities and colleges by encouraging participation of undergraduate students to showcase research and gain experience presenting results.

Objectives of the SU Student Research Symposium are to:

- Recognize, encourage, and reward student achievements in research.
- Provide students with the educational experience of preparing a research presentation and presenting to an audience of their peers.
- Facilitate learning about new directions in research and the many different areas of current research interests.
- Promote interaction among outstanding students from across local universities.
- Encourage students to consider careers in research and education.



STUDENT RESEARCH SYMPOSIUM

Learn more » www.shawu.edu/SUSRS

April 19, 2024

Maternal Mortality Rate of African American Women Compared to Other Counterparts

Janell Odom, Mentors Kimberly Raiford, Ph.D. and Eric Butler, Ph.D.
Department of Health, Human & Life Sciences, Shaw University, Raleigh, North Carolina 27601



Abstract

The African American population has undergone hundreds of years of healthcare discrimination and unethical practices. African American women are the main population impacted negatively by maternal health. Black women have the highest maternal mortality rate compared to their White, Hispanic, and Asian counterparts (Howell, 2018). This is an alarming issue that is slowly gaining more awareness due to social media outcry for change. Using data from the Researcher All of Us database, it is expected that there is indeed a substantial gap between the maternal mortality rates of African American women and their counterparts among various health disparities (primarily racial and socioeconomic).

Background

Health disparities are factors that negatively impact the health care of an individual based on various factors such as race, ethnicity, geographical location and socioeconomics. The African American community have faced various healthcare disparities from events such as the Tuskegee Experiment as well as Henrietta Lacks. Recently, there has been an increase of awareness towards maternal health where women have been prone to sharing their birthing experiences on social media. There seems to be a trend towards African American women and their rate of care. It is not a surprise due to the "Founder of Gynecology", Marion J Sims, who used African American enslaved women and children for his experiments which caused them pain, harm and sometimes even death. He used African American enslaved women and children to perfect methods for birthing, treatments and even using specific instruments. The story of Henrietta Lacks is a prime example of the unethical treatment towards black women. Celebrities such as Serena Williams and Beyonce have even discussed their traumatic birthing experiences that they endured. Howell (2018) stated that black women have the highest maternal death rate compared to their white, Hispanic and Asian counterparts. There are various factors that contribute to the maternal mortality rate. Howell stated that black women in North Carolina have a higher mortality rate than white women in labor from hemorrhaging (4.9%), cardiomyopathy (4.6%) and respiratory problems (6.1%) (2018). There are various factors that may contribute to these high numbers such as financial issues, location of healthcare, type of insurance coverage, and genetic predispositions. With these high numbers, there is not a vast amount of research on this topic which is alarming. As an African American woman, who has personally undergone healthcare disparities, this information is crucial to determine.

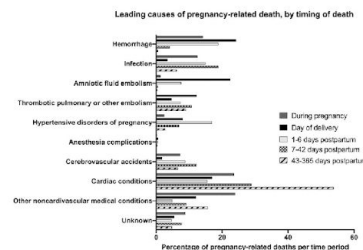


Figure 1: Common causes of maternal deaths with the maternal time frame of death (Collier, Molina 2020).

Methods

Data was collected from the Researcher All of Us database. The data collected includes research regarding various types of labor complications with the demographics highly affected, any predispositions of possible labor complications due to genetic makeup. Within the database, the cohort parameters included races (African American, White, Asian, Hispanic). Women (sex assigned at birth) and the age group from 18-60. The cohort parameters excluded men, not woman only (bisexual) and those who preferred not to answer. The cohort parameter also exclude the ages 61 and up due to the possibility of labor complications be due to an outside reason (premenopausal). Using the All of Us database, the data selected will be compared between the various races to support or deny my hypothesis. Survey questions will be used regarding various health disparities. There are survey questions on whether they have insurance, the type of insurance, and the frequency of receiving healthcare.

Data/Results

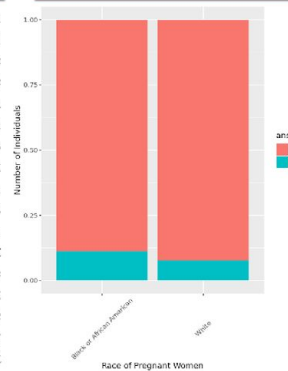


Figure 2: Pregnant women who stated that their healthcare insurance was accepted (All of Us)

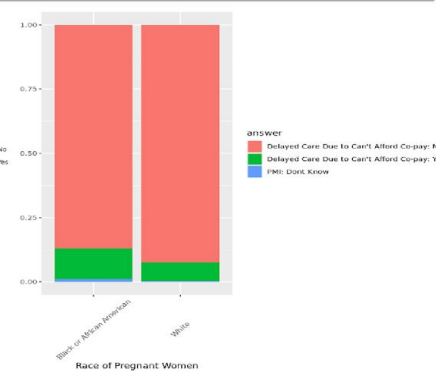


Figure 3: Pregnant women who stated that they had to delay their medical care due to not affording the copay (All of Us)

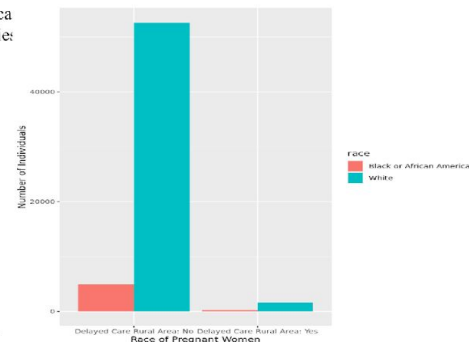


Figure 4: Pregnant women who had delay of care due to residing in rural area (All of Us)

Conclusions

- High rate of pregnant African American and White women that stated that their insurance was not covered. There was a higher percent of pregnant White women who stated their insurance was not covered compared to their African American counterparts.
- Higher rate of African American women stating that they had a delay in healthcare due to not affording the copayment.

Future Directions

- Prolong data analysis
- Focus on specific areas in the United States (i.e North Carolina) and compare nationally
- Further research on specific health predispositions within African American and White women.

References

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- Howell EA. Reducing Disparities in Severe Maternal Morbidity and Mortality. *Clin Obstet Gynecol*. 2018 Jun;61(2):387-399.
- "The All of Us Research Program is supported by the National Institutes of Health, Office of the Director: Regional Medical Centers: 1 OT2 OD026549; 1 OT2 OD026554; 1 OT2 OD026557; 1 OT2 OD026556; 1 OT2 OD026550; 1 OT2 OD 026552; 1 OT2 OD026553; 1 OT2 OD026548; 1 OT2 OD026551; 1 OT2 OD026555; IAA #: AOD 16037; Federally Qualified Health Centers: HHSN 263201600085U; Data and Research Center: 5 U2C OD023196; Biobank: 1 U24 OD023121; The Participant Center: U24 OD023176; Participant Technology Systems Center: 1 U24 OD023163; Communications and Engagement: 3 OT2 OD023205; 3 OT2 OD023206; and Community Partners: 1 OT2 OD025277; 3 OT2 OD025315; 1 OT2 OD025337; 1 OT2 OD025276. In addition, the All of Us Research Program would not be possible without the partnership of its participants."

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Overview of Diabetes in Hispanic Americans/Latinos in the U.S.

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¹ Department of Health, Human & Life Sciences, Shaw University, Raleigh, North Carolina 27601



Abstract

The present study investigated the overview of diabetes in Hispanics/Latinos in the U.S and examined how health disparities was related to poor healthcare treatment. Health disparities that were mentioned were language, cultural differences, and immigration. This study was to address this and point out the health disparities that affect Hispanics/Latinos by using the all of us data set with statistical analysis. The information that was gather from the all of us database was over the cases of diabetes in different levels of income. A snapshot was then provided to illustrate the findings. Overall, the expected findings from this research study are that Hispanics/Latinos have a higher prevalence of contracting diabetes for those lower in income.

Background

Hispanic Americans/Latinos are a significant minority group confronting many obstacles when dealing with medical treatment and health care. Since I am apart of this minority group this topic touched home because I seen times where my family would struggle because of these disparities. Overall, the primary purpose of this research study is to illustrate the barriers that Hispanics/Latinos go through in the world and how that can lead to poor healthcare treatment and severe health conditions such as diabetes. This study is critical because it can show how Hispanics/Latinos have a higher risk of developing diseases. Many factors are put into place that can increase the risk of malpractice in healthcare. This can lead to the struggle or fear of receiving medical treatment, as many people cannot get help. This research study will be run through the All of Us data set over the cases of diabetes in different areas of income. Gathering information from other races or ethnic groups can also be helpful in comparing the diabetes rates among each other. In all, the expected findings from this research study are that Hispanics/Latinos have a higher prevalence of contracting diabetes in low-income areas.



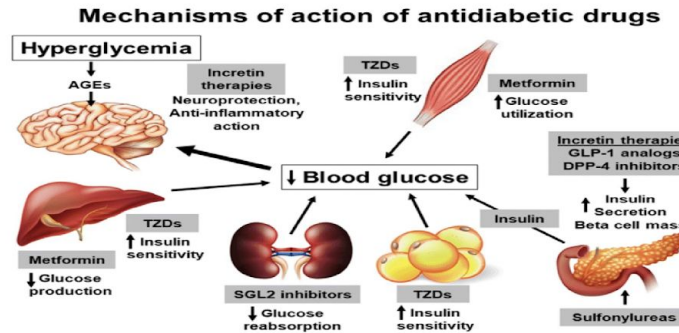
Through the advancement of technology there has been a successful increase in recognizing diabetes earlier, however, Hispanics/Latinos, the fastest-growing minority in the US, have not had a positive impact with these advancement. This is due to the diversity of the Hispanic/Latino

community in language, socioeconomic backgrounds, birthplaces, and cultures (Aviles-Santa et al. 2017).

Language can pose a challenge for the Hispanic/Latino community since English is not their first language. This can be a challenge because if you aren't able to communicate with providers or they don't understand your values and preferences, you're less likely to treatment instructions and lifestyle changes.

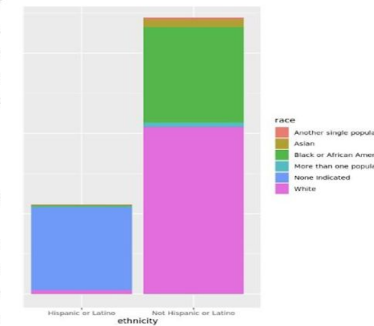
Immigrants play a huge role in the healthcare system of the United States. As a immigrants created a situation where they pay more money to the government than they do in medical treatment. Immigrants also fill crucial gaps in jobs at every level, ranging from construction workers to surgeons. Effects of immigration enforcement may also play a role in healthcare for Hispanic/Latino people. There has been evidence indicating that immigration enforcement and policy have impacted the well-being of Hispanic immigrants by increasing their stress and discouraging people from seeking care (Rhodes et. 2015).

Mechanisms

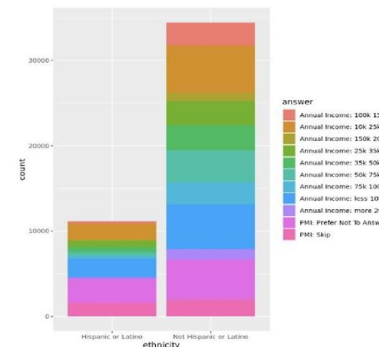


Preliminary Data/Results

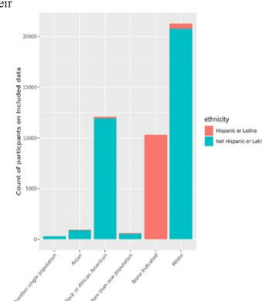
Graph 1: Ethnic self identification:



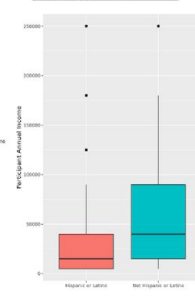
Graph 2: Ethnic Self Identification based on Income:



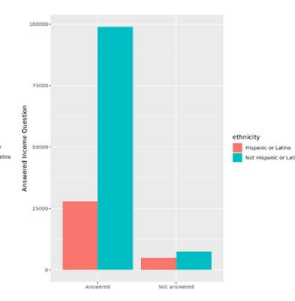
Graph 3: Race Participant Count



Graph 4: Chi square analysis of ethnicity based on income



Graph 5: Ethnic answered income question



Methods

For this research study, the method of collecting data will be used on the All of Us workbench database of the prevalence of diabetes in the United States, more so this information will be used to draw a conclusion whether Hispanics/Latinos have a higher chance of contracting diabetes based on income level.

Information was gathered from those who identify themselves as hispanic/Latinos and those who aren't such as African Americans, Whites, Asian, etc. to be compared to side by side. People aged from 18-50 and all genders were included.

People that were targeted were those with type 1, type 2, and gestational diabetes. Other medical conditions other than this were excluded from the cohort in the all of us data settings

Survey questions regarding income levels were included such as:

- "What is your annual household income sources?"
- "Are you currently covered by any of the following types of health insurance or health coverage plans?"

Conclusions

- Through chi square analysis using the all of us data set it can be inferred that the hispanic/Latino group does in fact show a positive correlation of prevalence of diabetes and low income.
- In graph 4 chi square analysis was done and it resulted that the Hispanic/Latino group have a lower median of annual income compared to not hispanic/latino.
- Another interesting thing that was included was the number of people who skipped on the income question in graph 5. It concluded that Hispanic/Latino who earned a lower annual income was less likely to answer the question maybe due to the fact that they are ashamed of admitting that they are poor on paper.
- Another interesting thing that was pointed out in graph 2 was that from the participants who answered the income question there was a lower count in the hispanic/latino group.

Future Directions

Further directions for this experiment would be to include specific areas or locations. Which could be used to add more data and significance to the survey results.

References

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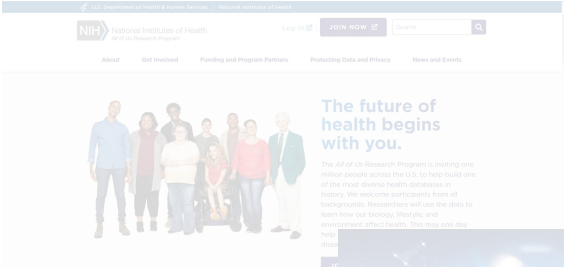
Acknowledgements

- NIEHS All of Us Research Program
- Dr. Eric Butler for his assistance with the data coding in R.

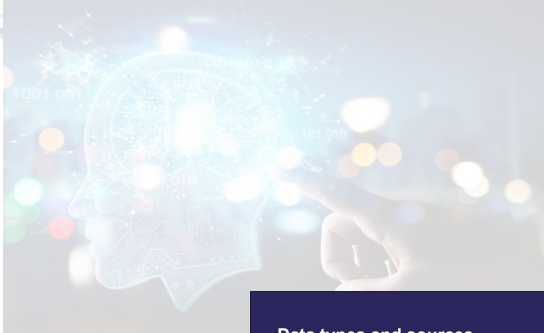
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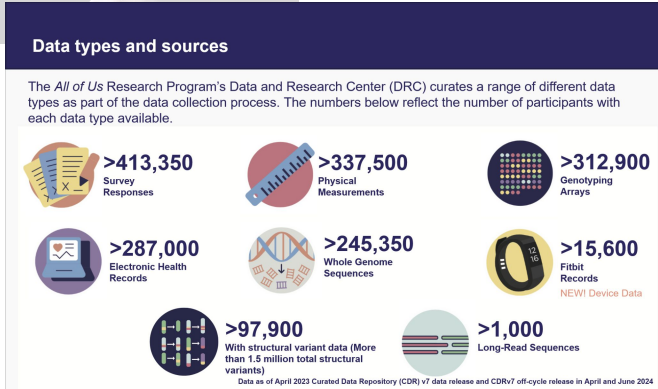
Course Overview



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- Brainstorm and develop a study question



- Create and analyze datasets



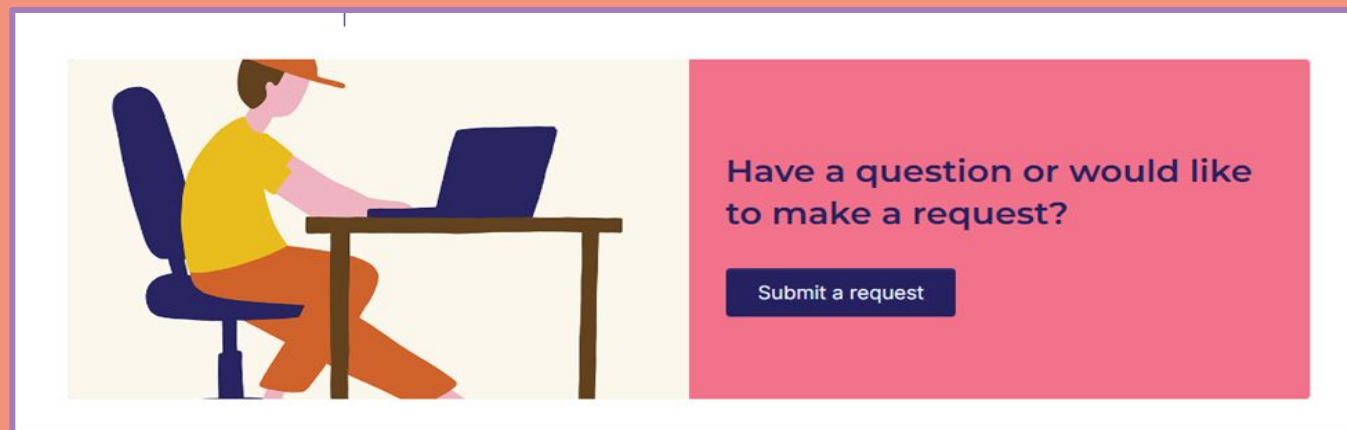
- Present data

Accessibility

- *All of Us* Research Support
- *All of Us* Office Hours Support
- Verification Issues
- Change of Phone numbers - Google verification code



Submitting a Request



All of Us
RESEARCH PROGRAM

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User Support / [Submit a request](#)

Search

Submit a request

Please choose your issue below

-
- Ask a question or report an issue
- Share your feedback
- Make suggestions or ask questions for Office Hours
- Request Large Download
- Request a Researcher Workbench Demonstration

Submitting a Request (cont.)

- Convey the issue/ask a question
- Submit proper contact information
- Include subject
- Short narrative
- Include screenshots

Submit a request

 Providing as much information as possible in your request will allow us to help you faster

Please choose your issue below

Ask a question or report an issue

Your email address *

Request type (optional)

General Support

For technical issues, please upload a screenshot of the error or bug you are encountering. Reminder: sharing participant data is strictly forbidden, do not attach any participant level data to this support request.

Subject *

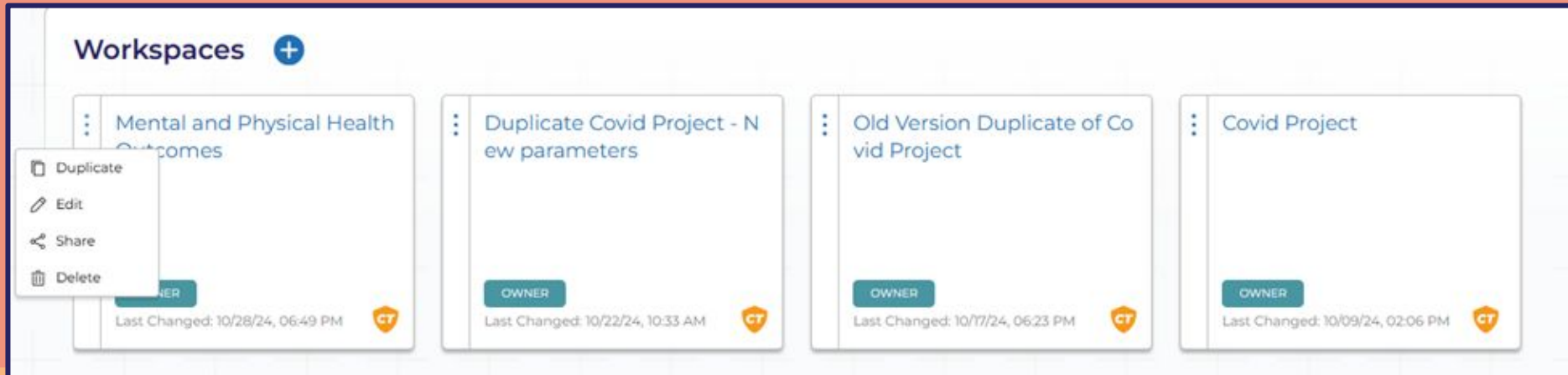
How can we help you further in this request? *

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Please enter the details of your request. A member of our support staff will respond as soon as possible.

Patience

- Learning and navigating researcher workbench
- Multiple log Ins
- Unsure who to contact for assistance
- What is normal versus what is abnormal?



Workspace Success


Workspaces > Mental and Physical Health Outcomes >
Edit Workspace

DATA
ANALYSIS
ABOUT

Edit workspace "Mental and Physical Health Outcomes" (Required) ⓘ

Workspace name

Data access tier ⓘ

Dataset version ⓘ

All of Us billing account

The *All of Us* Research Program provides \$300 in initial credits per user. Please refer to this article to learn more about the initial credit program and how it can be used. Once you have used up your initial credits, you can either select a shared billing account or create a new one using either Google Cloud Platform or a Google billing partner.

Please note: If creating a billing account via a Google billing partner, it may take a few days to show up in the **Select account** dropdown.

Select a current billing account

▼
CREATE BILLING ACCOUNT

Research Use Statement Questions Best practices for Research Use Statement questions

The *All of Us* Research Program requires each data user of the *All of Us* data to provide a meaningful description of the intended purpose of data use for each workspace they create. To provide transparency to *All of Us* Research Program participants, your answers below will be made available publicly in the [Research Hub Directory](#) on our public website. **Your responses will not be used to make decisions about data access.**

Note that you are required to create separate workspaces for each project for which you access All of Us data, hence the responses below are expected to be specific to the project for which you are creating this particular workspace.

1. What is the primary purpose of your project? Publicly displayed ⓘ

Research purpose ▼

Choose options below to describe your research purpose

Workspace Success (cont.)

1. What is the primary purpose of your project? Publicly displayed ⓘ

Research purpose ▼

Choose options below to describe your research purpose

Disease-focused research

The primary purpose of the research is to learn more about a particular disease or disorder (e.g. type 2 diabetes), a trait (e.g. blood pressure), or a set of related conditions (e.g. autoimmune diseases, psychiatric disorders).

Methods development/validation study

The primary purpose of the use of *All of Us* data is to develop and/or validate specific methods/tools for analyzing or interpreting data (e.g. statistical methods for describing data trends, developing more powerful methods to detect gene-environment, or other types of interactions in genome-wide association studies).

Research Control

All of Us data will be used as a reference or control dataset for comparison with another dataset from a different resource (e.g. Case-control studies).

Genetic Research

Research concerning genetics (i.e. the study of genes, genetic variations, and heredity) in the context of diseases or ancestry.

Social/Behavioral Research

The research focuses on the social or behavioral phenomena or determinants of health.

Population Health/Public Health Research

The primary purpose of using *All of Us* data is to investigate health behaviors, outcomes, access, and disparities in populations.

Ethical, Legal, and Social Implications (ELSI) Research

This research focuses on ethical, legal, and social implications (ELSI) of or related to design, conduct, and translation of research.

Drug/Therapeutics Development Research


The primary focus of the research is drug/therapeutics development. The data will be used to understand treatment-gene interactions or treatment outcomes relevant to the therapeutic(s) of interest.

Educational Purpose

The data will be used for education purposes (e.g. for a college research methods course, to educate students on population-based research)

Cohorts

Show: [Show All](#) [Cohorts](#) [Cohort Reviews](#) [Concept Sets](#) [Datasets](#)

	Item type ↑↓	Name ↑↓	Last Modified Date ↑↓	Last Modified By
		<input type="text" value="Search Name"/> 		
⋮	Cohort	10-21 Intersectionality and Disability	Oct 28, 2024	jametrel@researchallofus.org
⋮	Cohort	10-24 Intersectionality and Disability	Oct 28, 2024	jametrel@researchallofus.org
⋮	Cohort	Intersectionality and Well-being	Oct 28, 2024	jametrel@researchallofus.org

<< < 1 > >>

Concept Sets

Show: [Show All](#) [Cohorts](#) [Cohort Reviews](#) [Concept Sets](#) [Datasets](#)

	Item type ↑↓	Name ↑↓	Last Modified Date ↑↓	Last Modified By
		<input type="text" value="Search Name"/> Y		
⋮	Concept Set	Anxiety	Oct 28, 2024	sbriscoe@researchallofus.org
⋮	Concept Set	COVID Diagnosis	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Disability Inquiry	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Discrimination	Oct 28, 2024	sbriscoe@researchallofus.org
⋮	Concept Set	Education	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Employment	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Food and Housing Insecurity	Oct 29, 2024	sbriscoe@researchallofus.org
⋮	Concept Set	Gender Identity	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Health Insurance	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Health Status	Oct 28, 2024	sbriscoe@researchallofus.org

<< < 1 2 3 > >>

Concept Sets

Anxiety ✎

Participant Count: 130,571 Domain: Survey

Find more information about each survey in the Survey Explorer

🔍 Search across all Surveys by code or description ⓘ

Name ⓘ	Concept Id ⓘ	Source/Standard ⓘ	Vocab ⓘ	Code ⓘ	Roll-up Count ⓘ	Item Count ⓘ	View Hierarchy
Including yourself, who in your family has had anxiety reaction/pani...	836850	Source	PPI	MentalCondition...	130,571	130,571	

Anxiety ✎

Participant Count: 130,571 Domain: Survey

Find more information about each survey in the Survey Explorer

🔍 Including yourself, who in your family has had anxiety reaction/panic disorder? Select all that apply. ⓘ

← RETURN TO LIST

- Including yourself, who in your family has had anxiety reaction/panic disorder? Select all that apply. **130,571**
 - Self **39,887**
 - Mother **16,904**
 - Father **5,989**
 - Sibling **16,766**
 - Daughter **10,226**
 - Son **6,634**
 - Grandparent **6,996**
 - Skip **70,390**
- > Are you still seeing a doctor or health care provider for anxiety reaction/panic disorder? **39,875**
- > About how old were you when you were first told you had anxiety reaction/panic disorder? **39,875**
- > Are you currently prescribed medications and/or receiving treatment for anxiety reaction/panic disorder? **39,875**
- > Including yourself, who in your family has had attention-deficit/hyperactivity disorder (ADHD)? Select all that apply. **15,810**

Concept Sets (cont.)

10-24 Intersectionality and Disability

DATA ANALYSIS ABOUT All of Us Controlled Tier Data

Include Participants

1. Female-Black-Gay-With Disability

Contains Surveys Codes | 307,516

ADD CRITERIA

Temporal Group Count: 307,516

AND

2. Female-Black-Gay-Without Disability

Contains Surveys Codes | 342,219

ADD CRITERIA

Temporal Group Count: 342,219

AND

3. Female-Black-Not Gay-With Disability

Contains Surveys Codes | 395,625

ADD CRITERIA

And Exclude Participants

Group 18

ADD CRITERIA

Total Count: 51,674

Results by

Race Age at CDR REFRESH

Race

Race	# Participants
Asian	~1,000
Black or African American	~10,000
I prefer not to answer	~1,000
Middle Eastern or North Afr...	~1,000
More than one population	~5,000
Native Hawaiian or Other P...	~1,000
None Indicated	~7,000
None of these	~1,000
Skip	~1,000
White	~28,000

Race and Age at CDR

Race	# Participants
Asian	~1,000
Black or African American	~10,000
I prefer not to answer	~1,000
Middle Eastern or North Afr...	~1,000
More than one population	~5,000
Native Hawaiian or Other P...	~1,000
None Indicated	~7,000
None of these	~1,000
Skip	~1,000
White	~28,000

Save Cohort

Concept Sets (cont.)

10-24 Intersectionality and Disability

Include Participants

1. Female-Black-Gay-With Disability

Contains Surveys Codes | 307,516

What was your biological sex assigned at birth? - Female

Which categories describe you? Select all that apply. Note, you may select more than on...

Which of the following best represents how you think of yourself? - Gay

Which of the following best represents how you think of yourself? - Lesbian

Which of the following best represents how you think of yourself? - Bisexual

[View/edit all criteria \(6 more\)](#)

ADD CRITERIA ▾

OR



Temporal

Group Count: 307,516

AND

2. Female-Black-Gay-Without Disability

Contains Surveys Codes | 342,219

What was your biological sex assigned at birth? - Female

Which categories describe you? Select all that apply. Note, you may select more than on...

Which of the following best represents how you think of yourself? - Gay

Which of the following best represents how you think of yourself? - Lesbian

Which of the following best represents how you think of yourself? - Bisexual

[View/edit all criteria \(6 more\)](#)

ADD CRITERIA ▾

OR



Temporal

Group Count: 342,219

Dataset

Show: [Show All](#) Cohorts Cohort Reviews Concept Sets Datasets

	Item type ↑↓	Name ↑↓	Last Modified Date ↑↓	Last Modified By
		<input type="text" value="Search Name"/>		
⋮	Concept Set	Sex At Birth	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Sexual Orientation	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Sexual Preference	Oct 28, 2024	jametrel@researchallofus.org
⋮	Concept Set	Social Support	Oct 29, 2024	sbriscoe@researchallofus.org
⋮	Concept Set	Stress and Coping	Oct 29, 2024	sbriscoe@researchallofus.org
⋮	Dataset	Intersectionality and Well-being dataset	Oct 28, 2024	
⋮	Dataset	Sexuality Exploration Dataset	Oct 28, 2024	
⋮	Dataset	Intersectionality Duplicate	Oct 28, 2024	
⋮	Dataset	Sexuality Duplicate	Oct 28, 2024	
⋮	Dataset	Final Exploration	Oct 28, 2024	

<< < 1 2 **3** 4 > >>

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Q & A Discussion

Attendee Insights

We want to hear from you



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Thank You!