



HAALSI

Project Director: Julia Rohr

Research Scientist: Elyse Jennings

Data Manager: David Kapaon

Plan for Webinar

- HAALSI background
- *Who, What, When, Where, How, and Why*
- HAALSI sample and survey
- Unique features of the data
- How to access/upcoming releases
- Questions



What is HAALSI?

- Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa
- HAALSI aims to examine and characterize a cohort of 5,059 men and women ≥ 40 years of age in rural South Africa with respect to health, physical and cognitive function, aging, and well-being
- HAALSI is designed to both address issues specific to South Africa, as well as harmonize with other international sister HRS studies



What is HAALSI?

- Launched in 2013
- 3 Waves of study
- *Wave 1: 2014-2015*
- *Wave 2: 2018-2019*
- *Wave 3: 2021-2022*



HAALSI Study Area

Who is HAALSI?

- Harvard University, Cambridge MA
- MRC/Wits Rural Public Health and Health Transitions Research Unit, University of Witwatersrand, South Africa
- Heidelberg University, Heidelberg, Germany
- Stanford University, Stanford CA
- University of California at San Francisco (UCSF), San Francisco CA
- Brigham and Women's Hospital, Boston MA



Why HAALSI?

- Sub-Saharan Africa demographic and epidemiological transition
- ART + HIV
- Increased life expectancies and socio-economic improvements
- Cardiovascular and metabolic diseases



Current HAALSI Projects

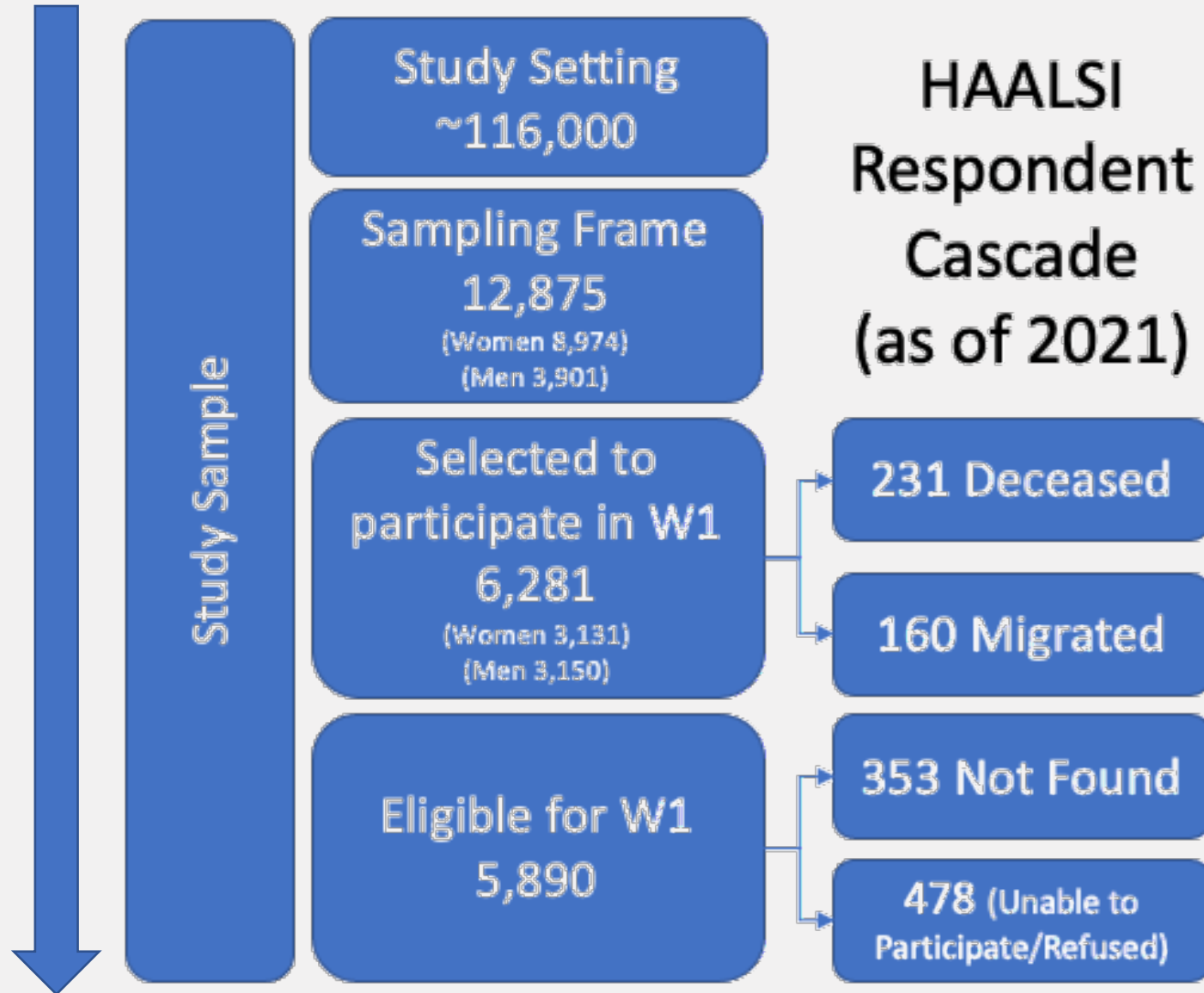
The HAALSI Program includes five tightly integrated projects that together will reveal the interrelationships among common chronic diseases and the determinants of population health and healthy aging:

- Project 1: Cognitive Impairment and Dementia
- Project 2: Cardiometabolic Disease in an Aging South African Cohort
- Project 3: HIV and HIV Interventions to Promote Healthy Aging
- Project 4: Public Policies to Improve Healthy Aging
- Project 5: Multimorbidity

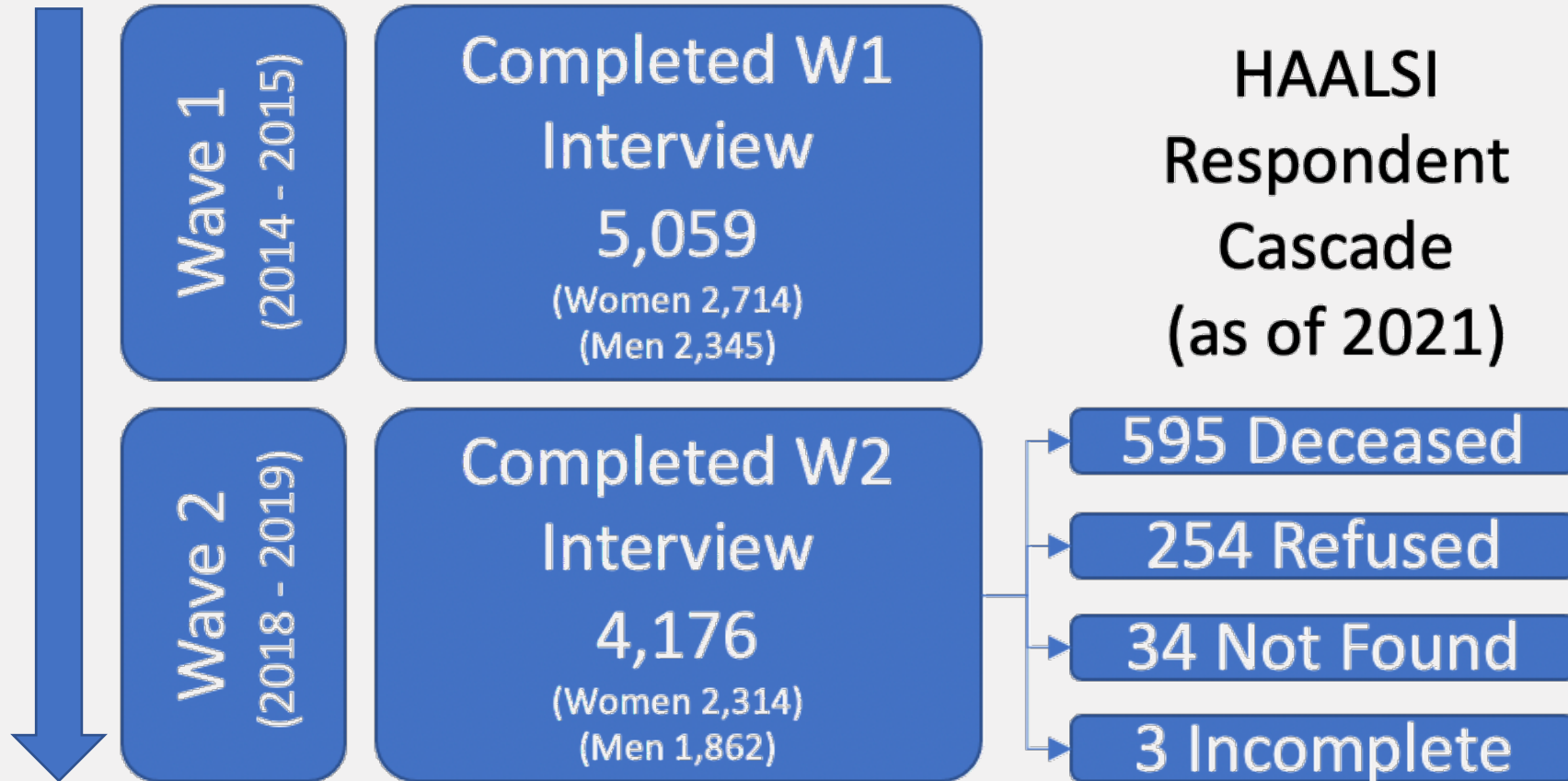


HAALSI Sample

Pre-Wave 1 Sampling



Wave 1 + 2 Samples



Wave 3 Sample





HAALSI Survey



HAALSI Survey (1 of 3)

- Consent
- Household Consumption
- Household Expenditures
- Household Labor Income
- Government Transfers
- Remittances
- Durables
- Housing
- Land Ownership
- Livestock
- Financial Assets
- Background
- General Health
- Subjective Well-Being
- Cognition
- Picture Naming



HAALSI Survey (2 of 3)

- Trails
- Numeracy
- Immediate Recall
- Incidental Memory
- Retrieval Fluency
- Social Conditions
- Weak Ties (W3)
- Proxy Cognition
- Employment Pensions
- Employment Benefits
- Health Service Utilization
- Food Security
- Pain
- Life History
- Biomarkers
- Performance Test



HAALSI Survey (3 of 3)

- Urine
- Vision Test (W3)
- PTSD
- Perceptions of Social Engagement
- Hearing and Vision
- Social Networks
- Physical Functioning
- Cardiometabolic
- Soft Drink Consumption
- CESD
- HIV
- IPV (W3)
- Sleep



Biomarkers and Point of Care Measures

- Anthropometric measures
- Lipids (W1 + W3), Hemoglobin, Glucose
- Urine (Sub-sample)
- DBS – HIV, HIV Viral Load, ART Screening, HbA1c, CRP
- Blood Pressure

Unique HAALSI Feature #1

Inverse Probability Weights

- Attrition
- Death
- Anthropometric Consent
- Biomarker Consent
- DBS Consent



Unique HAALSI Feature #2

Economic Shops data

- Sell certain goods, and price of goods too
- Coordinates
- Type of shop
- Advertisements



Unique HAALSI Feature #3

- In depth cognitive data on subsample of ~600
- *Dementia diagnosis + MRI data (in progress)*

Data Access

- INDEPTH Data Repository
- ICPSR
- Harvard's Dataverse

Data Access - INDEPTH Network

- Baseline Dataset
- Longitudinal Dataset



INDEPTH Data Repository

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South Africa - Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa [HAALSI] Baseline Survey: Agincourt, South Africa, 2015



Reference ID INDEPTH.ZA011.HAALSI.2015.v1

Year 2014 - 2015

Country South Africa

Producer(s) Lisa Berkman - Harvard T.H. Chan School of Public Health

Collection(s) [South Africa - Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Afr](#)

Metadata [Documentation in PDF](#)

Created on
Mar 28, 2017
Last modified
Mar 28, 2017
Page views
133684

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Data Access - ICPSR

- Longitudinal Dataset

Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa [HAALSI]: Agincourt, South Africa, 2015-2019 (ICPSR 36633)

Version Date: Nov 5, 2020 [Cite this study](#) | [Share this page](#)


Principal Investigator(s): [?](#)

[Lisa Berkman](#), Harvard T.H. Chan School of Public Health

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The baseline survey was conducted among 5,059 men and women aged 40 years or older, who were sampled from within the existing framework of the Agincourt health and socio-demographic surveillance system (AHDSS), in rural Mpumalanga province, South Africa. Survey data were collected on cognitive and physical functioning, social networks, cardiometabolic disease and risk factors, HIV and HIV risk, and economic well-being. The survey

1,063

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Data Access – Harvard Dataverse

- 7 Datasets
- *HAALSI Baseline*
- *HAALSI Longitudinal (W1 + W2)*
- *Dementia Baseline*
- *HCAP*
- *Baseline Lab Data*
- *DBS for C-Reactive Protein*
- *HIV Baseline - Restricted*

Harvard Dataverse > Harvard Center for Population and Development Studies Dataverse >

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Datasets (9)

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Publication Year

2021 (1)

2020 (1)

2019 (2)

2017 (3)

2016 (2)

Publication Status

Published (7)

Draft (2)

Subject

Medicine, Health and Life Sciences (9)

Social Sciences (4)

Author Name

Harvard Center for Population and Development Studies (8)

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Sort

HAALSI Dementia Wave 1

Mar 29, 2021



Harvard Center for Population and Development Studies, 2021, "HAALSI Dementia Wave 1", <https://doi.org/10.7910/DVN/YDGSBW>, Harvard Dataverse, V1, UNF:6:BUdOhTqZhuubxMUPI3KLZg== [fileUNF]

The Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community (HAALSI) Dementia study collects detailed neuropsychological and functional assessments, informant interviews as well as neurological and clinical evaluations on a sub-sample of HAALSI individuals aged 5...

HAALSI Wave 2 Survey

Feb 11, 2021



Harvard Center for Population and Development Studies (Harvard T.H. Chan School of Public Health), 2020, "HAALSI Wave 2 Survey", <https://doi.org/10.7910/DVN/UELYSV>, Harvard Dataverse, V2, UNF:6:2eUOokGkjXT14KWeC6Q+Zg== [fileUNF]

The Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa (HAALSI) study is a population-based survey implemented by the Harvard Center for Population and Development Studies and the MRC/Wits Rural Public Health and Health Transitions Research U...

HAALSI Baseline Laboratory Data

Aug 13, 2020



Harvard Center for Population and Development Studies, 2017, "HAALSI Baseline Laboratory Data", <https://doi.org/10.7910/DVN/TW84UI>, Harvard Dataverse, V3, UNF:6:Bf0cL7OIG3xDCHlhNIUFLA== [fileUNF]

HAALSI Baseline HIV Biomarker Data

Version 1.0



Harvard Center for Population and Development Studies, 2017, "HAALSI Baseline HIV Biomarker Data", <https://doi.org/10.7910/DVN/CXXYUU>, Harvard Dataverse, V1, UNF:6:gLQrVa8dEAJIX0FkjsOwA== [fileUNF]

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Description ?

For the Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa (HAALSI) baseline survey, HIV biomarkers were collected during the home survey through dried blood spots (DBS). DBS were tested for HIV, HIV viral load, and presence of antiretroviral drugs (emtricitabine and lamivudine, which are used in all standard first and second-line HIV regimens in South Africa). CD4 tests were performed on venous blood among the sub-sample of participants who visited the laboratory. * The HIV screening and confirmatory enzyme-linked immunosorbent assays used were the Vironostika HIV 1/2 Ag/Ab MicroELISA System (BioMérieux, Marcy-l'Étoile, France) and the Roche Cobas E411 Combi Ag, respectively. * The viral load platform was BioMérieux NucliSens with a lower limit of detection of 100 copies by DBS. * Testing for exposure to either emtricitabine (FTC) or lamivudine (3TC) was performed at the Pharmacokinetic Laboratory at the University of Witwatersrand, Johannesburg, South Africa.

[Read full Description](#) [+]

Subject ?

Medicine, Health and Life Sciences

Keyword ?

South Africa, Aging, Older adults, HIV, Viral load, CD4, Antiretroviral therapy, Agincourt, HAALSI

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Upcoming HAALSI Data Releases

- Longitudinal Economic Shops data
- MRI/Dementia diagnosis/Cognition data
- Apo-E Genotype data
- Wave 3

The background features a light gray gradient with several overlapping, semi-transparent white circles and lines. These shapes are arranged in a way that creates a sense of depth and movement, with some circles appearing to be in front of others. The overall aesthetic is clean and modern.

Questions?



Project 1 – Cognition and Dementia

- Determine the incidence and prevalence of dementia and mild cognitive impairment (MCI)
- Identify social and economic risk and resilience factors affecting cognitive decline and dementia
- Evaluate associations of Apo-E and markers of biological aging related to telomeres with cognitive decline



Project 2 – Cardiometabolic Disease

- Evaluate the scale and trajectory of CMD, including the prevalence, incidence and mortality of key conditions, and identify their associated risk factors
- Evaluate the effects of social determinants on CMD risk
- Develop models for identifying individuals at high risk for CMD and generate projections of future population-level CMD burden
- Assess the effects of South Africa's 2013 salt legislation on CMD risk



Project 3 – HIV Treatment

- Identify the key modifiable barriers to progression across the stages of the HIV prevention and treatment cascades among older adults
- Establish the effects of home-based delivery of HIV self-tests and an age-appropriate culturally-relevant motivational and instructional interactive app on HIV self-testing, HIV status knowledge, and linkage to care
- Establish the long-term impacts of HIV treatment on healthy aging



Project 4 – Public Policies & Health

- Measure and describe the relationship between socioeconomic conditions and the health and well-being of older people in rural South Africa
- Determine how social grants affect the health of older adults in rural South Africa, and ascertain the reasons for lack of uptake of grants among older people who appear to meet eligibility criteria
- Assess the effect of the introduction of (a) new taxes on SSBs and (b) limits on salt in processed foods on consumption and health risk factors.



Project 5 – Multimorbidity

- Develop a comprehensive portrait of the epidemiology of multimorbidity among older adults in rural South Africa
- Evaluate the consequences of multimorbidity on mortality, physical and mental function, and wellbeing
- Assess the implications of multimorbidity for healthcare service utilization, continuity of care, and health care spending
- Quantify the relationship between multimorbidity and frailty, and associated excess mortality risks, and develop integrative measures of healthy life expectancy



How to access HAALSI Data through NACDA

NACDA The National Archive of
Computerized Data on Aging



Go to
nacda-
aging.org



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The National Archive of Computerized Data on Aging (NACDA), located within ICPSR, is funded by the National Institute on Aging. NACDA's mission is to advance research on aging by helping researchers to profit from the under-exploited potential of a broad range of datasets.

NACDA acquires and preserves data relevant to gerontological research, processing as needed to promote effective research use, disseminates them to researchers, and facilitates their use. By preserving and making available the largest library of electronic data on aging in the United States, NACDA offers opportunities for secondary analysis on major issues of scientific and policy relevance.

The NACDA staff represents a team of professional researchers, archivists and technicians who work together to obtain, process, distribute, and promote data relevant to aging research.

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NACDA Program on Aging
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The July 2021 National Longitudinal Study of Adolescent to Adult Health (Add Health) Virtual Workshop video recordings are now available! The recordings will be hosted on the Carolina Population Center's YouTube channel until

NACDA Overview

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NATIONAL ARCHIVE OF COMPUTERIZED DATA ON AGING

News and Announcements

- [ICPSR will be closed until Tuesday, Sept. 7, in observance of Labor Day](#)
- [FREE Webinar on HAALSI Data Resources Next Week](#)
- [Wave V of Add Health Public-Use Data Released!](#)

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Study Title/Investigator

Released/Updated

- [Health and Aging in Africa: A Longitudinal Study of an INDEPTH Community in South Africa \[HAALSI\]: Agincourt, South Africa, 2015-2019 \(ICPSR 36633\)](#)
Berkman, Lisa

2020-11-05

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Harvard T.H. Chan School of Public Health

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Kathryn Lavender ▾

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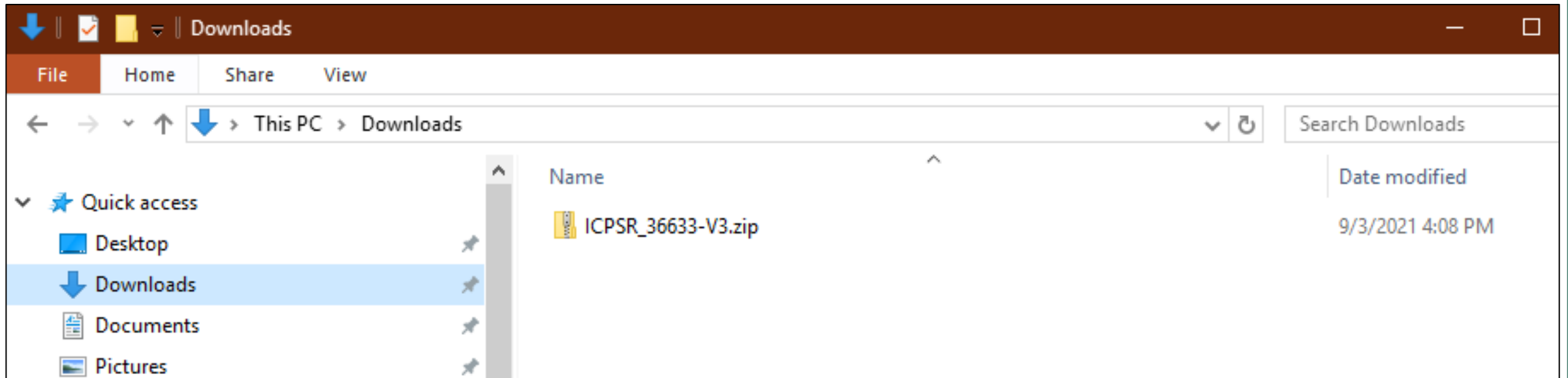
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- Internal Infrastructure
 - **We need to support both single and multi-dataset studies**
- Metadata reasons

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