South Africa - South Africa - Africa Health Research Institute HDSS Community Viral Load

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Report generated on: April 15, 2024

Visit our data catalog at: https://data.ahri.org/index.php

Identification

SURVEY ID NUMBER
AHRI.HDSS.Community.Viral.Load

TITLE
South Africa - Africa Health Research Institute HDSS Community Viral Load

COUNTRY

Name	Country code
South Africa	ZA

ABSTRACT
To determine the behavioural and biological pathways through which high ART coverage reduces HIV incidence at the population level. This study seeks to establish the effect of ART scale-up on population viral load and eventually HIV incidence. It will achieve this through re-analysis of dried blood spots (DBS) collected among participants participating in Africa Health Research Institute HDSS. All HIV positive DBS were tested for viral load.

KIND OF DATA
Community viral load

UNIT OF ANALYSIS
Each record is a viral load result from a specimen or multiple records for participants participating in individual surveillance HDSS.

Version

VERSION DESCRIPTION
v1.0.0
v1.0.1 - Dataset Update

Scope

TOPICS

Topic	Vocabulary	URI
HIV-1, HIV Incidence, Epidemics, Population Surveillance, Rural Population, HIV prevalence, South Africa, HIV Community Viral load, Population-based surveys	Africa Health Research Institute	www.ahri.org

KEYWORDS

Keyword	Vocabulary	URI
HIV Viral load; Population viral load; HIV incidence	Africa Health Research Institute	www.ahri.org

Coverage

GEOGRAPHIC COVERAGE
AHRI's HDSS Study Area, KwaZulu Natal, South Africa.

UNIVERSE
The study includes all HIV positive resident individuals aged 15 years and above from KwaZulu Natal South Africa who consented to HIV tests as part of the AHRI population-based HIV testing.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Frank, Tanser	Africa Health Research Institute
Till, Baernighausen	Africa Health Research Institute

PRODUCERS

Name
Africa Health Research Institute

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
National Institute of Health	NIH	Causal Pathways to population health impact of HIV antiretroviral treatment

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
Dickman, Gareta	Africa Health Research Institute	Data extraction, transformation and loading
Gregory Ording-Jesperson	Africa Health Research Institute	Lab Data Preparation
Sweetness H Dube	Africa Health Research Institute	Data Documentation
Theresa Smit	Africa Health Research Institute	Laboratory work
Thobeka Mngomezulu	Africa Health Research Institute	Data Collection

Sampling

SAMPLING PROCEDURE

All individual dried blood spots for HIV-positive individuals from the southern part of the HDSS area.

Data Collection

DATES OF DATA COLLECTION

Start	End
2011-01-17	2023-04-30

Access policy

ACCESS CONDITIONS

Access to the data requires accurate completion of the online data access application form accessible on the AHRI Data repository(<https://data.ahri.org/>). Data users are required to abide by the data use conditions stipulated on the application for access to the data. Failure to do so may result in their data access privileges being revoked by the Data Custodian. In order to recognise the effort and intellectual contributions of AHRI investigators in producing and curating the data, users of AHRI data must acknowledge the source of the data and abide by the terms and conditions under which the data is accessed and must cite the dataset in publication using the citation provided as part of this documentation. All analytical datasets published on the AHRI Data Repository are assigned digital object identifier (DOIs) and the DOIs can be found on the Data Repository under Study Description tab - Access policy. AHRI data users are required to always cite the

dataset using the relevant DOI.

CITATION REQUIREMENTS

Tanser, F., & Baernighausen, T. (2023). South Africa - Africa Health Research Institute HDSS Community Viral Load [Data set]. Africa Health Research Institute. DOI:https://doi.org/10.23664/AHRI.HDSS.COMMUNITY.VIRAL.LOAD

Metadata production

DDI DOCUMENT ID

DDI.AHRI.HDSS.CommunityViralLoad

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

Data Dictionary

Data file	Cases	Variables
CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1	35868	7

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Cases:	35868
Variables:	7

Variables

ID	Name	Label	Question
V122	IIntID	Unique Internal Id of Individual	
V123	VisitDate	Date of Visit	
V124	BMFStatusObservation	BMFStatusObservation	
V125	HIVSampleId	HIV Sample Id	
V126	VLDetectableLimit	Viral Load Detectable Limit	
V127	VLResult	Viral Load Result	
V128	VLResultCode	VL Result Status	

Total: 7

IINTID: Unique Internal Id of Individual

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Invalid: 0 Minimum: 17 Maximum: 268783 Mean: 75735.171 Standard deviation: 53555.252
Type: Continuous Decimal: 0 Width: 12 Range: 17 - 268783 Format: Numeric

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VISITDATE: Date of Visit

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Minimum: 2011-01-17 Maximum: 2023-04-30
Type: Discrete Width: 11 Range: - Format: character

BMFSTATUSOBSERVATION: BMFStatusObservation

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Invalid: 0 Minimum: 259143 Maximum: 658886 Mean: 476273.392 Standard deviation: 119170.252
Type: Continuous Decimal: 0 Width: 12 Range: 259143 - 658886 Format: Numeric

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HIVSAMPLEID: HIV Sample Id

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Invalid: 0
Type: Discrete Width: 20 Range: - Format: character

VLDETECTABLELIMIT: Viral Load Detectable Limit

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1550 - 1550 Format: Numeric

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VLRESULT: Viral Load Result

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 14015 Invalid: 21853 Minimum: 1550 Maximum: 21080000 Mean: 81244.134 Standard deviation: 372142.224

Type: Continuous Decimal: 0 Width: 12 Range: 1550 - 21080000 Format: Numeric

VLRESULTCODE: VL Result Status

Data file: CVL 01-01 AHRI.PIP.CommunityViralLoad Analytical Dataset.2024.V1

Overview

Valid: 35868 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 7 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Valid result	14015	39.1%
2	Below detectable limit	19174	53.5%
3	Invalid result	26	0.1%
4	Insufficient for testing	2617	7.3%
5	Specimen not found	22	0.1%
6	Excluded from testing due to insufficient funding or field error	14	0%
7	Other	0	0%

Download related resources

Technical documents

DDI:Community Viral Load

Title	DDI:Community Viral Load
Author(s)	Sweetness H. Dube
Date	15/04/2024
Country	South Africa
Language	English
Publisher(s)	Sweetness H Dube
Filename	AHRI.HDSS.CommunityViralLoad.pdf