

South Africa - AHRILink Individual Visits.2023

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Identification

SURVEY ID NUMBER

AHRI.AHRILink.Individual.Visits.v1

TITLE

AHRILink Individual Visits.2023

COUNTRY

Name	Country code
South Africa	ZA

ABSTRACT

AHRILink is an electronic data collection system used to record all patients' visits to the 11 clinics located in the AHRI Population Intervention Programme (PIP) study area. The system was implemented in 2017 to assist clinical research assistants (CRAs) stationed in these clinics to capture reasons for clinic attendance. AHRILink database for each of the clinics is linked to a central AHRILink database through ongoing replication process. On a daily basis the PIP surveillance database is synchronised with the central AHRILink database, allowing CRAs access to an up to date list of individuals to search in AHRILink. Individuals are searched using individual identifiers such as first names, surnames, date of birth, sex and South African civilian identifiers. Deterministic and fuzzy match approaches are used to search for the individuals in the database. Verification is done to ensure that the individual is correctly linked by checking with the individual to name the household members who form part of the household they are part of.

KIND OF DATA

The AHRILink Data is anonymised and mainly contains demographic data such as age, sex, date and time of visit, name of the clinic, reason for clinic attendance and whether or not the individual is linked to PIP database. Each record is a visit reason (VisitId) that each individual has made to the clinic. Individuals can visit the clinic for more than one reason and will then have multiple records in the dataset for the visit identified by the same VisitId. Patient Id is a sequential number used to denote all visits which belong to one individual

UNIT OF ANALYSIS

Each record is a visit reason per visit (VisitId) that each individual has had. Patient id is a sequential number used to denote all visits which belong to one individual.

Version

VERSION DESCRIPTION

v1.0.0

Scope

TOPICS

Topic	Vocabulary	URI
HIV infection; tuberculosis; non-communicable diseases; South Africa; population health; demographic and health survey; Clinic visits; population linkage	AHRI	www.ahri.org

KEYWORDS

Keyword	Vocabulary	URI
HIV infection; tuberculosis; non-communicable diseases; South Africa; population health; demographic and health survey; Clinic visits; population linkage	AHRI	www.ahri.org

Coverage

GEOGRAPHIC COVERAGE

uMkhanyakude district in northern KwaZulu-Natal

UNIVERSE

All individuals across all ages accessing care in the 11 clinics located within AHRI PIP. The clinics are:

Esiyembeni Clinic
 Gunjaneni Clinic
 Hluhluwe Clinic
 KwaMsane Clinic
 Machibini Clinic
 Madwaleni Clinic
 Mpukunyoni Clinic
 Mtubatuba Clinic
 Nkundusi Clinic
 Ntondweni Clinic
 Somkhele Clinic

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Kobus Herbst	AHRI
Mark Siedner	AHRI/MGH
Willem Hanekom	AHRI

PRODUCERS

Name
Africa Health Research Institute

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding
SAPRIN	SAPRIN	

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
Dickman Gareta	AHRI	Head of Research Data Management
Siphephelo Dlamini	AHRI	Research Nursing Manager
Thandeka Khoza	AHRI	Clinical Research Platform Manager
Patrick Gabela	AHRI	Clinical Research Coordinator
Nompilo Shelembe	AHRI	Clinical Research Nurse
Siyabonga Nxumalo	AHRI	Data Manager
Sweetness Dube	AHRI	Data Documentation

Sampling

SAMPLING PROCEDURE

All individuals across all ages accessing care in the 11 clinics located within AHRI PIP

Data Collection

DATES OF DATA COLLECTION

Start	End
2017-01-01	2023-02-28

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

Herbst, K., Siedner, M., & Hanekom, W. (2023). AHRILink Individual Visits.2023 [Data set]. Africa Health Research Institute. DOI:<https://doi.org/10.23664/AHRI.AHRILINK.Individual.Visits>

Metadata production

DDI DOCUMENT ID

DDI.AHRI.AHRILink.Individual.Visits.v1

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

Data Dictionary

Data file	Cases	Variables
AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1	1266894	13

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Cases: 1266894

Variables: 13

Variables

ID	Name	Label	Question
V35	PatientId	Patient Identification(sequential)	
V36	PersonUid	Person universally unique identifier	
V37	IlntId	PIP Individual Identifier	
V38	DoB	Date of birth	
V39	Age	Age(in years)	
V40	Sex	Sex	
V41	VisitId	Visit identifier	
V42	VisitDate	Clinic Visit Date	
V43	VisitDateHour	Hour of the visit	
V44	VisitDateMinute	Minutes of the visit	
V45	ProxyVisit	An individual who visits a facility on behalf of a patient	
V46	VisitReason	Reason for Visit	
V47	FacilityName	Name of the facility	

Total: 13

PATIENTID: Patient Identification(sequential)**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Invalid: 0 Minimum: 10 Maximum: 255158 Mean: 127956.482 Standard deviation: 73979.521

Type: Continuous Decimal: 0 Width: 12 Range: 10 - 255158 Format: Numeric

PERSONUID: Person universally unique identifier**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Invalid: 0

Type: Discrete Width: 36 Range: - Format: character

IINTID: PIP Individual Identifier**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 735429 Invalid: 531465 Minimum: 17 Maximum: 270144 Mean: 120395.974 Standard deviation: 77837.497

Type: Continuous Decimal: 0 Width: 12 Range: 17 - 270144 Format: Numeric

DOB: Date of birth**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Minimum: 1798-01-01 Maximum: 2023-02-15

Type: Discrete Width: 11 Range: - Format: character

AGE: Age(in years)**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Invalid: 0 Minimum: -1 Maximum: 222 Mean: 35.225 Standard deviation: 20.94

Type: Continuous Decimal: 0 Width: 12 Range: -1 - 222 Format: Numeric

SEX: Sex**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 9 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	342861	27.1%
2	Female	923517	72.9%
9	Unknown	516	0%

VISITID: Visit identifier

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Overview

Valid: 1266894 Invalid: 0 Minimum: 1 Maximum: 1373402 Mean: 686477.207 Standard deviation: 396488.309

Type: Continuous Decimal: 0 Width: 12 Range: 1 - 1373402 Format: Numeric

VISITDATE: Clinic Visit Date

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Overview

Valid: 1266894 Minimum: 2017-01-26 Maximum: 2023-02-17

Type: Discrete Width: 11 Range: - Format: character

VISITDATEHOUR: Hour of the visit

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Overview

Valid: 1266894 Invalid: 0 Minimum: 0 Maximum: 23 Mean: 10.123 Standard deviation: 2.273

Type: Continuous Decimal: 0 Width: 12 Range: 0 - 23 Format: Numeric

VISITDATEMINUTE: Minutes of the visit

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Overview

Valid: 1266894 Invalid: 0 Minimum: 0 Maximum: 59 Mean: 29.468 Standard deviation: 17.447

Type: Continuous Decimal: 0 Width: 12 Range: 0 - 59 Format: Numeric

PROXYVISIT: An individual who visits a facility on behalf of a patient**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266894 Invalid: 0
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	1227361	96.9%
1	Yes	39533	3.1%

VISITREASON: Reason for Visit**Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1****Overview**

Valid: 1266893 Invalid: 1
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 99 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Child Health - Vaccinations & Growth Monitoring	115991	9.2%
2	Chronic Care - ART Follow-up	480543	37.9%
3	Chronic Care - ART Initiation	2712	0.2%
4	Chronic Care - CCMDD	48895	3.9%
5	Chronic Care - Diabetes	30666	2.4%
6	Chronic Care - HIV Testing	14410	1.1%
7	Chronic Care - Hypertension	116855	9.2%
8	Chronic Care - Mental Health	9524	0.8%
9	Chronic Care - Other	26032	2.1%
10	Chronic Care - TB	8363	0.7%
11	Emergency care	1423	0.1%
12	Family Planning - First visit	9347	0.7%
13	Family Planning - Follow-up	22592	1.8%
14	Maternity - Antenatal	68919	5.4%
15	Maternity - Delivery	1023	0.1%
16	Maternity - PostNatal	8175	0.6%

17	Minor Ailment - First visit	238228	18.8%
18	Minor Ailment - Follow-up	43211	3.4%
19	Other - unspecified	2078	0.2%
20	Rehabilitation	3312	0.3%
21	Reproductive Health & Circumcision	2031	0.2%
22	Research - PIP Referral	1307	0.1%
23	Research - Study appointment	183	0%
24	Research - Study visit	3503	0.3%
25	Suspected COVID-19 Case	620	0%
26	STI Partner notification	0	0%
27	Reproductive Health : PrEP Follow-up	313	0%
28	Reproductive Health : PrEP Initiation	100	0%
99	Unable to ascertain reason for visit	6537	0.5%
Sysmiss		1	

FACILITYNAME: Name of the facility

Data file: AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

Overview

Valid: 1266894 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 99 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Esiyembeni Clinic	26238	2.1%
2	Gunjaneni Clinic	99157	7.8%
3	Hlabisa Hospital	2	0%
4	Hluhluwe Clinic	158446	12.5%
5	KwaMsane Clinic	205247	16.2%
6	Macabuzela Clinic	3	0%
7	Machibini Clinic	74096	5.8%
8	Madwaleni Clinic	66698	5.3%
9	Mpukunyoni Clinic	136070	10.7%
10	Mtubatuba Clinic	215862	17%
11	Nkundusi Clinic	96012	7.6%
12	Ntondweni Clinic	44545	3.5%
13	Sipho Zungu Clinic	2	0%

14	Somkhele Clinic	144348	11.4%
15	AHRI Mobile Clinic A	142	0%
16	AHRI Mobile Clinic D	21	0%
17	Africa Centre Building	0	0%
18	Other place outside surveillance area	2	0%
99	Unknown	3	0%

Download related resources

Technical documents

DDI:AHRIlink Individual Visits

Title	DDI:AHRIlink Individual Visits
Author(s)	Sweetness H Dube
Date	18/08/2023
Country	South Africa
Language	English
Publisher(s)	Sweetness H Dube
Filename	AHRI.AHRIlink.Individual.Visits.v1.pdf
