

South Africa

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AHRILink Individual Visits.2023

Study Documentation

August 18, 2023

Metadata Production

Metadata Producer(s)	Africa Health Research Institute (AHRI)
Identification	DDI.AHRI.AHRILink.Individual.Visits.v1

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AHRILink Individual Visits.2023

Overview	
Identification	AHRI.AHRILink.Individual.Visits.v1
Version	v1.0.0
Abstract	
<p>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.</p>	
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.

Scope & Coverage	
Keywords	HIV infection; tuberculosis; non-communicable diseases; South Africa; population health; demographic and health survey; Clinic visits; population linkage
Topics	HIV infection; tuberculosis; non-communicable diseases; South Africa; population health; demographic and health survey; Clinic visits; population linkage
Time Period(s)	2017-2023
Countries	South Africa
Geographic Coverage	
uMkhanyakude district in northern KwaZulu-Natal	
Universe	
<p>All individuals across all ages accessing care in the 11 clinics located within AHRI PIP. The clinics are:</p> <ul style="list-style-type: none"> Esiyembeni Clinic Gunjaneni Clinic Hluhluwe Clinic KwaMsane Clinic Machibini Clinic Madwaleni Clinic Mpukunyoni Clinic Mtubatuba Clinic Nkundusi Clinic Ntondweni Clinic Somkhele Clinic 	

Producers & Sponsors	
Primary Investigator(s)	Kobus Herbst, AHRI Mark Siedner, AHRI/MGH Willem Hanekom, AHRI
Other Producer(s)	Africa Health Research Institute (AHRI)
Funding Agency/ies	Wellcome Trust (WT) , Core funding SAPRIN (SAPRIN)
Other Acknowledgment(s)	Dickman Gareta , Head of Research Data Management , AHRI Siphephelo Dlamini , Research Nursing Manager , AHRI Thandeka Khoza , Clinical Research Platform Manager , AHRI Patrick Gabela , Clinical Research Coordinator , AHRI Nompilo Shelembe , Clinical Research Nurse , AHRI Siyabonga Nxumalo , Data Manager , AHRI Sweetness Dube , Data Documentation , AHRI

Sampling
<p><u>Sampling Procedure</u> All individuals across all ages accessing care in the 11 clinics located within AHRI PIP</p>

Data Collection	
Data Collection Dates	start 2017-01-01 end 2023-02-28

Accessibility
<p><u>Access Conditions</u> 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.</p>
<p><u>Citation Requirements</u> 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</p>

Files Description

Dataset contains 1 file(s)

AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1	
# Cases	1266894
# Variable(s)	13

Variables List

Dataset contains 13 variable(s)

File AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	PatientId	Patient Identification(sequential)	continuous	numeric-12.0	1266894	0	-
2	PersonUid	Person universally unique identifier	discrete	character-36	1266894	0	-
3	IintId	PIP Individual Identifier	continuous	numeric-12.0	735429	531465	-
4	DoB	Date of birth	discrete	character-11	1266894	-	-
5	Age	Age(in years)	continuous	numeric-12.0	1266894	0	-
6	Sex	Sex	discrete	numeric-12.0	1266894	0	-
7	VisitId	Visit identifier	continuous	numeric-12.0	1266894	0	-
8	VisitDate	Clinic Visit Date	discrete	character-11	1266894	-	-
9	VisitDat ..	Hour of the visit	continuous	numeric-12.0	1266894	0	-
10	VisitDat ..	Minutes of the visit	continuous	numeric-12.0	1266894	0	-
11	ProxyVisit	An individual who visits a facility on behalf of a patient	discrete	numeric-2.0	1266894	0	-
12	VisitRea ..	Reason for Visit	discrete	numeric-12.0	1266893	1	-
13	Facility ..	Name of the facility	discrete	numeric-12.0	1266894	0	-

Variables Description

Dataset contains 13 variable(s)

File : AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

PatientId: Patient Identification(sequential)

Information [Type= continuous] [Format=numeric] [Range= 10-255158] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-] [Mean=127956.482 /-] [StdDev=73979.521 /-]

PersonUid: Person universally unique identifier

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-]

IntId: PIP Individual Identifier

Information [Type= continuous] [Format=numeric] [Range= 17-270144] [Missing=*]

Statistics [NW/ W] [Valid=735429 /-] [Invalid=531465 /-] [Mean=120395.974 /-] [StdDev=77837.497 /-]

DoB: Date of birth

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-]

Age: Age(in years)

Information [Type= continuous] [Format=numeric] [Range= -1-222] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-] [Mean=35.225 /-] [StdDev=20.94 /-]

Sex: Sex

Information [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Male	342861	27.1%
2	Female	923517	72.9%
9	Unknown	516	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

VisitId: Visit identifier

Information [Type= continuous] [Format=numeric] [Range= 1-1373402] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-] [Mean=686477.207 /-] [StdDev=396488.309 /-]

VisitDate: Clinic Visit Date

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-]

VisitDateHour: Hour of the visit

Information [Type= continuous] [Format=numeric] [Range= 0-23] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-] [Mean=10.123 /-] [StdDev=2.273 /-]

VisitDateMinute: Minutes of the visit

Information [Type= continuous] [Format=numeric] [Range= 0-59] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-] [Mean=29.468 /-] [StdDev=17.447 /-]

ProxyVisit: An individual who visits a facility on behalf of a patient

Information [Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]

Statistics [NW/ W] [Valid=1266894 /-] [Invalid=0 /-]

File : AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

ProxyVisit: An individual who visits a facility on behalf of a patient

Value	Label	Cases	Percentage
0	No	1227361	96.9%
1	Yes	39533	3.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

VisitReason: Reason for Visit

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=1266893 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
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	0.0%
24	Research - Study visit	3503	0.3%
25	Suspected COVID-19 Case	620	0.0%
26	STI Partner notification	0	
27	Reproductive Health : PrEP Follow-up	313	0.0%
28	Reproductive Health : PrEP Initiation	100	0.0%
99	Unable to ascertain reason for visit	6537	0.5%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

FacilityName: Name of the facility

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=1266894 /-] [Invalid=0 /-]

File : AL01-01 AHRI.HDSS.AHRILinkVisits.2023.V1

FacilityName: Name of the facility

Value	Label	Cases	Percentage
1	Esiyembeni Clinic	26238	2.1%
2	Gunjaneni Clinic	99157	7.8%
3	Hlabisa Hospital	2	0.0%
4	Hluhluwe Clinic	158446	12.5%
5	KwaMsane Clinic	205247	16.2%
6	Macabuzela Clinic	3	0.0%
7	Machibini Clinic	74096	5.8%
8	Madwaleni Clinic	66698	5.3%
9	Mpukunyoni Clinic	136070	10.7%
10	Mtubatuba Clinic	215862	17.0%
11	Nkundusi Clinic	96012	7.6%
12	Ntondweni Clinic	44545	3.5%
13	Sipho Zungu Clinic	2	0.0%
14	Somkhele Clinic	144348	11.4%
15	AHRI Mobile Clinic A	142	0.0%
16	AHRI Mobile Clinic D	21	0.0%
17	Africa Centre Building	0	
18	Other place outside surveillance area	2	0.0%
99	Unknown	3	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.