

# South Africa - AHRI.Individual HSE Episodes

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

## Identification

### SURVEY ID NUMBER

AHRI.IndividualHSE.Episodes

### TITLE

AHRI.Individual HSE Episodes

### COUNTRY

Name	Country code
South Africa	ZA

### ABSTRACT

Africa Health Research Institute (AHRI) is a multidisciplinary, independent research institute. AHRI's goal is to become a source of fundamental discoveries into the susceptibility, transmission and cure of HIV, TB and related diseases. We also seek ways to improve diagnosis, prevention and treatment. To achieve this, we bring together leading researchers from different fields, use cutting edge science to improve people's health, and help to train the next generation of African scientists.

AHRI has conducted individual and household demographic surveillance since 2000. Demographic surveillance data are processed for longitudinal analyses by organizing the demographic surveillance data into individual and household residency episodes at a geographical physical location, and individual membership episodes within a household. Start events of residency and memberships include enumeration, birth, in-migration and relocating into a household from within the study population. Exit events of residency and memberships include death (by cause), out-migration and relocating to another location in the study population. AHRI annually produces a suite of Individual Demographic surveillance datasets which contains detailed records of all individuals under surveillance since January 2000. The datasets detail individual residency and membership patterns, household mortality (including cause of death), fertility, migration, HIV status, health care utilization, and household socio-economic profile.

Each record in the dataset represents a period of observation for an individual during which all the recorded characteristics of the individual stay constant. For example, on the birthday of the individual a new episode will start, because the age of the individual has changed. An out-migration will result in a new episode, because the location or residential status has changed. Any change in one of the status values, such as education, marital status, social-economic status and HIV will likewise result in a new episode on the date of the change.

The following are the versions of the Demographic surveillance datasets:

CoresidencyEpisodes  
 EducationCleaned  
 EducationStatuses  
 HIVStatusEpisodes  
 HouseholdAssets  
 HouseholdMap  
 HouseholdObservations  
 HouseholdSocioEconomicStatus  
 HouseholdStatusEpisodes  
 IndividualHSEEpisodes  
 IndividualMap  
 LabourEpisodes  
 LabourStatuses  
 LocationMap  
 MaritalStatuses  
 PartnerEpisodes  
 SurveillanceEpisodesBasic  
 SurveillanceEpisodesYrAge  
 SurveillanceEpisodes YrAge\_Coresidency  
 SurveillanceEpisodesYrAge\_HIV  
 SurveillanceEpisodes VrAge\_HSE  
 SurveillanceEpisodes YrAge\_Labour

SurveillanceEpisodesYrAge\_Partners  
 SurveillanceEpisodesYrAgeDel  
 SurveillanceEpisodes VrAgeDel\_HSE  
 SurveillanceEpisodesYrAgeDeL\_HSE\_Labour  
 SurveillanceEpisodesYrAgeDeL\_HSE\_Labour\_Partner\_Parents  
 SurveillanceEpisodes VrAgeDel\_HSE\_Labour\_Partner\_Parents\_HIV  
 SurveillanceEpisodesYrAgeDeL\_HSE\_Labour\_Partners

## KIND OF DATA

Event History Data

## UNIT OF ANALYSIS

Episodes of exposure

## Version

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## VERSION DESCRIPTION

v2.0.0

## Scope

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## TOPICS

Topic	Vocabulary	URI
Individual HSE Episodes	Africa Health Research Institute	www.ahri.org

## KEYWORDS

Keyword	Vocabulary	URI
Fertility, Mortality, Migration, Social-economic status, HIV, ART	Africa Health Research Institute	www.ahri.org

## Coverage

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## GEOGRAPHIC COVERAGE

AHRI is situated in the south-east portion of the uMkhanyakude district of KwaZulu-Natal province near the town of Mtubatuba. It is bounded on the west by the Umfolozi-Hluhluwe nature reserve, on the south by the Umfolozi river, on the east by the N2 highway (except form portions where the KwaMsane township strangles the highway) and in the north by the provincial road R22. The surveillance area is approximately 850km<sup>2</sup> in size.

## UNIVERSE

Households resident in dwellings within the study area are eligible for inclusion in the household component of AHRI Demographic Surveillance. All individuals identified by the household proxy informant as members of the households are enumerated. A resident household member is an individual that intends to sleep majority of time at the dwelling occupied by the household over a four-month period. Households include resident and non-resident members. An individual is a non-resident member if they have close ties to the household, but do not physically reside with the household at the dwelling most of the time. Non-resident members can also be called temporary migrants and they are enumerated within the household list. Because household membership is not tied to physical residency, an individual may be a member of more than one household.

## Producers and sponsors

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## PRIMARY INVESTIGATORS

Name	Affiliation
Dr Kobus Herbst	AHRI, SAPRIN

Dr Guy Harling	AHRI
Dr Mark Siedner	AHRI
Prof Willem Hanekom	AHRI

## PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

## FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding
SAPRIN	SAPRIN	

## OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
AHRI Research Data Management Team	AHRI	Research Data Management
AHRI Data Collection Team	AHRI	Data Collection
AHRI Community Engagement Team	AHRI	Community Engagement

## Sampling

## SAMPLING PROCEDURE

This dataset is not based on a sample but contains information from the complete demographic surveillance areas.

## Data collection

## DATES OF DATA COLLECTION

Start	End
2000-02-22	2024-12-20

## 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.

<https://github.com/SAPRIN-MRC/SaprinEpisodes.jl.git>

## CITATION REQUIREMENTS

Herbst, K., Harling, G., Siedner, M., & Hanekom, W. (2026). AHRI.Individual HSE Episodes [Data set]. Africa Health Research Institute.

DOI: <https://doi.org/10.23664/AHRI.INDIVIDUALHSE.EPISODES>

## Metadata production

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DDI DOCUMENT ID

DDI.AHRI.IndividualHSE.Episodes

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

**Data Dictionary**

<b>Data file</b>	<b>Cases</b>	<b>Variables</b>
<b>IndividualHSEEpisodes</b>	2335772	7



**Data file: IndividualHSEEpisodes**

Cases: 2335772

Variables: 7

**Variables**

ID	Name	Label	Question
V52	IndividualId	Unique individual identifier	
V53	HouseholdId	Unique household identifier	
V54	StartDate	Start Date (inclusive)	
V55	EndDate	End Date (inclusive)	
V56	ObservationId	Unique observation identifier	
V57	Episode	This episode number	
V58	HouseholdStatusChange	Change in household socio-economic status	

Total: 7



**INDIVIDUALID: Unique individual identifier****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Invalid: 0 Minimum: 1 Maximum: 263153 Mean: 114748.443 Standard deviation: 77594.346

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 263153 Format: Numeric

**HOUSEHOLDID: Unique household identifier****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Invalid: 0 Minimum: 1 Maximum: 41014 Mean: 20442.056 Standard deviation: 11766.417

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 41014 Format: Numeric

**STARTDATE: Start Date (inclusive)****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Minimum: 2000-02-22 Maximum: 2024-12-20

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

**ENDDATE: End Date (inclusive)****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Minimum: 2000-04-08 Maximum: 2024-12-30

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

**OBSERVATIONID: Unique observation identifier****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Invalid: 0 Minimum: 1 Maximum: 290708 Mean: 159895.249 Standard deviation: 76992.816

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 290708 Format: Numeric

**EPISODE: This episode number****Data file:** IndividualHSEEpisodes**Overview**

Valid: 2335772 Invalid: 0 Minimum: 1 Maximum: 36 Mean: 7.919 Standard deviation: 5.91

Type: Continuous    Decimal: 0    Width: 9    Range: 1 - 36    Format: Numeric

## HOUSEHOLDSTATUSCHANGE: Change in household socio-economic status

Data file: IndividualHSEEpisodes

### Overview

Valid: 2335772    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 15    Range: -1 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	0	0%
1	Yes	2335772	100%

# Download related resources

## Technical documents

### DDI:Individual HSE Episodes

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Title	DDI:Individual HSE Episodes
Author(s)	Nompumelelo Mkwanazi
Date	2026-02-19
Country	South Africa
Language	English
Publisher(s)	Nompumelelo Mkwanazi
Filename	Individual HSE Episodes.pdf

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