

South Africa - ZA Excess Mortality: Surveillance Episodes with Clinic Records

**The MRC/Wits Rural Public Health and Health Transitions Research Unit -
University of the Witwaterstrand**

Report generated on: December 18, 2023

Visit our data catalog at: <https://data.agincourt.co.za/index.php>

Overview

Identification

ID NUMBER
ZA011-000001

Version

VERSION DESCRIPTION
1.0

Overview

UNITS OF ANALYSIS
Individuals

KEYWORDS
HIV, Hypertension, Diabetes

Coverage

GEOGRAPHIC COVERAGE

The dataset contains records from individuals accessing care for HIV, hypertension and diabetes from primary health care facilities within the Agincourt surveillance area and are linked to the Agincourt Health and socio-demographic surveillance (AHDSS). The AHDSS database contains the data resulting from the exhaustive coverage of demographic events within a geographically defined population, namely the Agincourt sub-district of the Bushbuckridge district of South Africa. As of May 2013, the study site consists of 30 research villages with a population of 116,000 people, living in some 21,000 households.

UNIVERSE

The data used for the study comes from the Agincourt HDSS-clinic-hospital record linkage system. This system collects healthcare services utilisation data from the health facilities in the Agincourt HDSS study area and two district hospitals located some 25-60km away from the HDSS study area. The data collected through the record-linkage system for each individual is linked to the corresponding HDSS data for that individual using a combination of deterministic and probabilistic record linkage techniques applied to conventional personal identifiers

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
The MRC/Wits Rural Public Health and Health Transitions Research Unit	University of the Witwaterstrand

OTHER PRODUCER(S)

Name	Affiliation	Role
The MRC/Wits Rural Public Health and Health Transitions Research Unit	University of the Witwaterstrand	Research Site

FUNDING

Name	Abbreviation	Role
Bill & Melinda Gates Foundation, Seattle, WA	BMGF	Funder

Name	Abbreviation	Role
South African Population Research Infrastructure Network, ZA	SAPRIN	Funder
Wellcome Trust, UK	Wellcome	Funder

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
The MRC/Wits Rural Public Health and Health Transitions Research Unit	Agincourt	Wits University	Research Site

DATE OF METADATA PRODUCTION

2023-12-18

DDI DOCUMENT ID

ZA011-000001

Sampling

Sampling Procedure

The surveillance data is collected from annual visits to households whereas clinical data is collected from the patient files at the health facilities for individuals who have consented to be part of the linkage platform.

Questionnaires

No content available

Data Collection

Data Collection Mode

The data used for the study comes from the Agincourt HDSS-clinic-hospital record linkage system. This system collects healthcare services utilisation data from the health facilities in the Agincourt HDSS study area and two district hospitals located some 25-60km away from the HDSS study area. The data collected through the record-linkage system for each individual is linked to the corresponding HDSS data for that individual using a combination of deterministic and probabilistic record linkage techniques applied to conventional personal identifiers [26,27]. Clinical records of every consenting patient are linked to the HDSS records if s/he lives/or have lived in the HDSS area. Currently, the system collects data on clinical visits, diagnosis and treatments from patients aged at least seven years with chronic conditions (including HIV) or who come in to test for those conditions.

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

ZA011_RawCensoredEpisodesWithClinic_Public

Content

Cases 17000

Variable(s) 26

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V1	individualid	Individual ID	discrete	character	
V2	centreid	HDSS/Nodal Centre ID	discrete	character	
V3	countryid	Country Id	discrete	numeric	
V4	sex	Sex	discrete	numeric	
V5	episode	Episode	discrete	numeric	
V6	startdate	Start date	discrete	character	
V7	enddate	End date	discrete	character	
V8	startevent	Start Event	discrete	character	
V9	endevent	End Event	discrete	character	
V10	hiv	Has HIV	discrete	numeric	
V11	hypertension	Has Hypertension	discrete	numeric	
V12	diabetes	Has Diabetes	discrete	numeric	
V13	first_hiv_visit	First HIV Visit	discrete	character	
V14	last_hiv_visit	Last Hiv Visit	discrete	character	
V15	LastHIVResults	Last HIV results	discrete	character	
V16	DateofHIVDiagnosis	Date of HIV diagnosis	discrete	character	
V17	YearOfHIVDiagnosis	Year of HIV diagnosis	discrete	character	
V18	first_hpt_visit	First Hypertension Visit	discrete	character	
V19	last_hpt_visit	Last Hypertension Visit	discrete	character	
V20	first_diabetes_visit	First Diabetes Visit	discrete	character	
V21	last_diabetes_visit	Last Diabetes Visit	discrete	character	
V22	visit_year	Clinic Visit Year	contin	numeric	
V23	days	Days	contin	numeric	
V24	dob	Date of birth	discrete	character	
V25	dod	Date of death	discrete	character	
V26	died	Died ?	discrete	numeric	

Individual ID (individualid)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: character	Invalid: 0
Width: 5	

HDSS/Nodal Centre ID (centreid)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: character	Invalid: 0
Width: 5	

Country Id (countryid)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 710-710	

Sex (sex)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

Episode (episode)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-1	

Start date (startdate)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Start date (startdate)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Type: Discrete
 Format: character
 Width: 11

Valid cases: 17000
 Minimum: NaN
 Maximum: NaN

End date (enddate)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 17000
 Minimum: NaN
 Maximum: NaN

Start Event (startevent)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete
 Format: character
 Width: 3

Valid cases: 17000
 Invalid: 0

End Event (endevent)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete
 Format: character
 Width: 3

Valid cases: 17000
 Invalid: 0

Has HIV (hiv)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0-1

Valid cases: 17000
 Invalid: 0

Has Hypertension (hypertension)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0-1

Valid cases: 17000
 Invalid: 0

Has Diabetes (diabetes)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 10	
Decimals: 0	
Range: 0-1	

First HIV Visit (first_hiv_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 10868
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Last Hiv Visit (last_hiv_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 10685
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Last HIV results (LastHIVResults)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 8311
Format: character	Invalid: 0
Width: 8	

Date of HIV diagnosis (DateofHIVDiagnosis)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 7103
Format: character	Invalid: 0
Width: 10	

Year of HIV diagnosis (YearOfHIVDiagnosis)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 3524
Format: character	Invalid: 0
Width: 4	

First Hypertension Visit (first_hpt_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 6668
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Last Hypertension Visit (last_hpt_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 6378
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

First Diabetes Visit (first_diabetes_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 1199
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Last Diabetes Visit (last_diabetes_visit)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 1060
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Clinic Visit Year (visit_year)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Continuous	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 9	Minimum: 2001
Decimals: 0	Maximum: 2022
Range: 2001-2022	Mean: 2018.8
	Standard deviation: 2.6

Days (days)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Days (days)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Type: Continuous	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 8	Minimum: 1
Decimals: 0	Maximum: 2922
Range: 1-2922	Mean: 2383.5
	Standard deviation: 830.4

Date of birth (dob)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Date of death (dod)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 1820
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Died ? (died)

File: ZA011_RawCensoredEpisodesWithClinic_Public

Overview

Type: Discrete	Valid cases: 17000
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

