

# Zimbabwe - ALPHA HIV Incidence and Mortality Data, Manicaland 1995-2016

**Manicaland Centre for Public Health Research, Network for Analysing Longitudinal Population HIV/ AIDS data on Africa**

Report generated on: August 23, 2024

Visit our data catalog at: <https://www.datafirst.uct.ac.za/dataportal/index.php>

## Identification

### SURVEY ID NUMBER

zwe-alpha-himm-1995-2016-v1

### TITLE

ALPHA HIV Incidence and Mortality Data, Manicaland 1995-2016

### SUBTITLE

Manicaland 1995-2016

### COUNTRY

Name	Country code
Zimbabwe	zwi

### STUDY TYPE

Open Population Cohort Study

### SERIES INFORMATION

The ALPHA (Analysing Longitudinal Population-based HIV/AIDS Data in Africa) Network is a collaboration among 10 longitudinal studies in sub-Saharan Africa. These studies collect data on HIV infection alongside demographic, behavioural, socio-economic and clinical data from residents of the study areas. The Network harmonises these data and conducts comparable and pooled analyses on HIV-related research questions. The ALPHA HIV Incidence and Mortality data, Manicaland is part of the international data harmonisation and analysis programme of the ALPHA network.

### ABSTRACT

The Manicaland dataset is created from harmonising longitudinal population-based demographic surveillance and repeated serological survey data collected by an Open Population Cohort Study in Manicaland, Zimbabwe. The data harmonisation is coordinated by the ALPHA Network which curates individual-level data on demographic surveillance, verbal autopsy interviews, serological and sexual behaviour surveys, and individually-linked data from HDSS and medical facilities.

The data from the Manicaland site in Zimbabwe is provided in two data files:

HIV incidence data:

This file includes data on resident study participants aged 15-49 who have had one negative HIV test and at least one subsequent HIV test done within the study for research purposes. Data may be split into multiple observations for each person to describe time spent in different residencies, different age groups and different calendar year periods. All timings are given as age at event, instead of the dates. Dates of birth were rounded to the 15th of the month, and all other dates were offset by the same amount and the time elapsed between the rounded dates is used as the age at event.

To enable multiple imputation of seroconversion dates the times (ages) of last negative test and first positive test have been provided

Mortality data:

This data file was created as described here <https://gatesopenresearch.org/articles/1-4>

### KIND OF DATA

Event History data

### UNIT OF ANALYSIS

Individuals

## Version

### VERSION DESCRIPTION

Version 1: Edited, anonymised data available with restrictions

### VERSION DATE

2022

## Scope

### NOTES

The data covers demographic surveillance and repeated serological survey data from the study site in Manicaland, Zimbabwe, collected through demographic surveillance, verbal autopsy interviews, serological and sexual behaviour surveys. Also included is data from HDSS and medical facilities.

## Coverage

### GEOGRAPHIC COVERAGE

The data covers the Manicaland open population cohort study area in Manicaland, Zimbabwe

### GEOGRAPHIC UNIT

The lowest level of geographic aggregation in the data is Village.

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name	Affiliation
Manicaland Centre for Public Health Research	Biomedical Research and Training Institute , Harare and Imperial College London
Network for Analysing Longitudinal Population HIV/ AIDS data on Africa	London School of Hygiene and Tropical Medicine

### PRODUCERS

### FUNDING AGENCY/SPONSOR

Name	Role
Wellcome Trust	Funding Agency
Bill and Melinda Gates Foundation	Funding Agency

### OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
Prof Simon Gregson	Imperial College London	Demographer and Manicaland Centre for Public Health Research director
Louisa Moorhouse	Imperial College London	Research Assistant/ Data Scientist
Dr Connie Nyamukapa	Biomedical Research and Training Institute/Imperial College London	Research Operations Director

## Data Collection

### DATES OF DATA COLLECTION

Start	End	Cycle
1998	2016	Mortality data
1995	2016	Incidence data

### DATA COLLECTION MODE

Face-to-face

## DATA COLLECTION NOTES

ALPHA data are harmonised datasets from ALPHA member sites and this dataset is from the Manicaland Prevention Study site.

## DATA COLLECTORS

Name	Affiliation
Manicaland Centre for Public Health Research	Biomedical Research and Training Institute , Harare and Imperial College London

## Access policy

## CONTACTS

Name	Affiliation	Email	URL
DataFirst helpdesk	University of Cape Town	support@data1st.org	www.support.data1st.org

## ACCESS CONDITIONS

Access under a Creative Commons CC-BY-NC (Attribution, Non-Commercial use only) License

## CITATION REQUIREMENTS

Manicaland Centre for Public Health Research and ALPHA Network. ALPHA HIV Incidence and Mortality data, Manicaland 1995-2016 [dataset]. Version 1. Manicaland and London: Manicaland Prevention Study and LSHTM [producers], 2017. Cape Town: DataFirst [distributors], 2022. DOI: <https://doi.org/10.25828/1k6w-fs49>

## ACCESS AUTHORITY

Name	Affiliation	Email
DataFirst	University of Cape Town	support@data1st.org

## ARCHIVE WHERE STUDY IS ORIGINALLY STORED

Karonga (MW011)

## Metadata production

## PRODUCERS

Name	Abbreviation	Affiliation	Role
Manicaland Centre for Public Health Research	Manicaland	Biomedical Research and Training Institute, Harare and Imperial College London	Metadata creator
Network for Analysing Longitudinal Population HIV/ AIDS data on Africa	ALPHA	London School of Hygiene and Tropical Medicine	Metadata creator
DataFirst		University of Cape Town	Metadata creator

## DATE OF METADATA PRODUCTION

2024-08-23

## DDI DOCUMENT VERSION

v2

**Data Description**

<b>Data file</b>	<b>Cases</b>	<b>Variables</b>
<b>incidence-manicaland-1995-2016</b>	26835	12
<b>mortality-manicaland-1998-2016</b>	63610	13



**Data file: incidence-manicaland-1995-2016**

Cases: 26835

Variables: 12

**Variables**

ID	Name	Label	Question
V53	study_name	Study name	
V54	idno	Participant ID number for sharing	
V55	sex	Sex	
V56	fouryear	Calendar year, grouped in 4 years post 2005	
V57	agegrp	Five year age group	
V58	timein	Start of episode (age)	
V59	timeout	End of episode (age)	
V62	fail	Seroconversion occurred at the end of this episode	
V63	t0	Stata variable: age at start of episode	
V64	t	Stata variable: age at end of episode	
V65	st	Stata variable: in survival analysis	
V66	d	Stata variable: failure (seroconversion)	

Total: 12

**Data file: mortality-manicaland-1998-2016**

Cases: 63610

Variables: 13

**Variables**

ID	Name	Label	Question
V68	study_name	Study name	
V69	idno	Participant ID number for sharing	
V70	sex	Sex	
V71	fouryear	Calendar year, grouped in 4 years post 2005	
V72	agegrp	Five year age group	
V73	hivstatus_broad	HIV status	
V74	timein	Start of episode (age)	
V75	timeout	End of episode (age)	
V76	fail	Seroconversion occurred at the end of this episode	
V77	t0	Stata variable: age at start of episode	
V78	t	Stata variable: age at end of episode	
V79	st	Stata variable: in survival analysis	
V80	d	Stata variable: failure (seroconversion)	

Total: 13



**STUDY\_NAME: Study name****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 10    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Karonga	0	0%
2	Kisesa	0	0%
3	Manicaland	26835	100%
4	Masaka	0	0%
5	Rakai	0	0%
6	uMkhanyakude	0	0%
7	Agincourt	0	0%
8	Kisumu	0	0%
9	Ifakara	0	0%
10	Nairobi	0	0%

**IDNO: Participant ID number for sharing****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0    Minimum: 0    Maximum: 1048235496    Mean: 268181652.686    Standard deviation: 234169794.364  
 Type: Continuous    Decimal: 0    Width: 10    Range: 1 - 9586    Format: Numeric

**SEX: Sex****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Men	11028	41.1%

2	Women	15807	58.9%
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## FOURYEAR: Calendar year, grouped in 4 years post 2005

Data file: incidence-manicaland-1995-2016

### Overview

Valid: 26835 Invalid: 0  
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 6 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	1995-99	3200	11.9%
1	2000-04	7881	29.4%
2	2005-08	7456	27.8%
3	2009-12	8298	30.9%
4	2013-16	0	0%
5	2017-20	0	0%
6	2021-24	0	0%

## AGEGRP: Five year age group

Data file: incidence-manicaland-1995-2016

### Overview

Valid: 26835 Invalid: 0  
Type: Discrete Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	0-4	0	0%
1	5-9	0	0%
2	10-14	0	0%
3	15-19	4901	18.3%
4	20-24	5350	19.9%
5	25-29	4517	16.8%
6	30-34	3554	13.2%
7	35-39	3117	11.6%

8	40-44	2849	10.6%
9	45-49	2547	9.5%
10	50-54	0	0%
11	55-59	0	0%
12	60-64	0	0%
13	65-69	0	0%
14	70-74	0	0%
15	75-79	0	0%
16	80-84	0	0%
17	85-89	0	0%
18	90+	0	0%

**TIMEIN: Start of episode (age)****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835 Invalid: 0 Minimum: 15 Maximum: 49.999 Mean: 29.179 Standard deviation: 9.61  
 Type: Continuous Decimal: 0 Width: 16 Range: 15 - 49.9986310746064 Format: Numeric

**TIMEOUT: End of episode (age)****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835 Invalid: 0 Minimum: 15.001 Maximum: 50 Mean: 30.811 Standard deviation: 9.724  
 Type: Continuous Decimal: 0 Width: 16 Range: 15.0006844626968 - 50 Format: Numeric

**FAIL: Seroconversion occurred at the end of this episode****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	26294	98%
1	Yes	541	2%

**T0: Stata variable: age at start of episode****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0    Minimum: 15    Maximum: 49.999    Mean: 29.179    Standard deviation: 9.61  
 Type: Continuous    Decimal: 0    Width: 16    Range: 15 - 49.9986310746064    Format: Numeric

**T: Stata variable: age at end of episode****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0    Minimum: 15.001    Maximum: 50    Mean: 30.811    Standard deviation: 9.724  
 Type: Continuous    Decimal: 0    Width: 16    Range: 15.0006844626968 - 50    Format: Numeric

**ST: Stata variable: in survival analysis****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		26835	100%

**D: Stata variable: failure (seroconversion)****Data file: incidence-manicaland-1995-2016****Overview**

Valid: 26835    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		26294	98%
1		541	2%



**STUDY\_NAME: Study name****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Karonga	0	0%
2	Kisesa	0	0%
3	Manicaland	63610	100%
4	Masaka	0	0%
5	Rakai	0	0%
6	uMkhanyakude	0	0%
7	Agincourt	0	0%
8	Kisumu	0	0%
9	Ifakara	0	0%
10	Nairobi	0	0%

**IDNO: Participant ID number for sharing****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610 Invalid: 0 Minimum: 726 Maximum: 1060995846 Mean: 268489506.659 Standard deviation: 236593415.233  
 Type: Continuous Decimal: 0 Width: 10 Range: 95807 - 123213 Format: Numeric

**SEX: Sex****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Men	26842	42.2%

2	Women	36768	57.8%
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## FOURYEAR: Calendar year, grouped in 4 years post 2005

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0  
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 6 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	earliest-1999	6864	10.8%
1	2000-04	18427	29%
2	2005-08	19787	31.1%
3	2009-12	18532	29.1%
4	2013-16	0	0%
5	2017-20	0	0%
6	2021-24	0	0%

## AGEGRP: Five year age group

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0  
Type: Discrete Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	0-4	0	0%
1	5-9	0	0%
2	10-14	0	0%
3	15-19	13516	21.2%
4	20-24	14582	22.9%
5	25-29	10908	17.1%
6	30-34	8175	12.9%
7	35-39	6570	10.3%

8	40-44	5442	8.6%
9	45-49	4417	6.9%
10	50-54	0	0%
11	55-59	0	0%
12	60-64	0	0%
13	65-69	0	0%
14	70-74	0	0%
15	75-79	0	0%
16	80-84	0	0%
17	85-89	0	0%
18	90+	0	0%

## HIVSTATUS\_BROAD: HIV status

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Negative	50751	79.8%
2	Positive	11443	18%
3	Unknown	1416	2.2%

## TIMEIN: Start of episode (age)

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0 Minimum: 15 Maximum: 49.999 Mean: 27.86 Standard deviation: 9.19  
 Type: Continuous Decimal: 0 Width: 16 Range: 15 - 49.9986310746064 Format: Numeric

## TIMEOUT: End of episode (age)

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0 Minimum: 15.001 Maximum: 50 Mean: 29.277 Standard deviation: 9.32  
 Type: Continuous Decimal: 0 Width: 16 Range: 15.0006844626968 - 50 Format: Numeric

**FAIL: Seroconversion occurred at the end of this episode****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63609    Invalid: 1  
 Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	62209	97.8%
1	Yes	1400	2.2%
Sysmiss		1	

**T0: Stata variable: age at start of episode****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610    Invalid: 0    Minimum: 15    Maximum: 49.999    Mean: 27.86    Standard deviation: 9.19  
 Type: Continuous    Decimal: 0    Width: 16    Range: 15 - 49.9986310746064    Format: Numeric

**T: Stata variable: age at end of episode****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610    Invalid: 0    Minimum: 15.001    Maximum: 50    Mean: 29.277    Standard deviation: 9.32  
 Type: Continuous    Decimal: 0    Width: 16    Range: 15.0006844626968 - 50    Format: Numeric

**ST: Stata variable: in survival analysis****Data file: mortality-manicaland-1998-2016****Overview**

Valid: 63610    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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1		63610	100%
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## D: Stata variable: failure (seroconversion)

Data file: mortality-manicaland-1998-2016

### Overview

Valid: 63610 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		62210	97.8%
1		1400	2.2%

## Download related resources

### Other materials

#### Contextual documentation for the shared ALPHA-Manicalnd prevention study data

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Title	Contextual documentation for the shared ALPHA-Manicalnd prevention study data
Date	2022-01-01
Country	Zimbabwe
Language	English
Contributor(s)	This document provides contextual information on the data
Filename	ahim-manicaland-1995-2016.pdf

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