

# Malawi - Karonga HDSS INDEPTH Core Dataset 2003 - 2011

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Report generated on: July 25, 2015

Visit our data catalog at: <http://indepth-ishare.org/index.php>

## Overview

### Identification

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**ID NUMBER**

INDEPTH.MW011.CMD2011.v4

### Version

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**VERSION DESCRIPTION**

1.v1: First version for internal use

CMD2011.V4: Edited dataset for public distribution

**PRODUCTION DATE**

2014-06-30

### Overview

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**ABSTRACT**

The Karonga Health and Demographic Surveillance System (Karonga HDSS) in northern Malawi currently has a population of more than 35 000 individuals under continuous demographic surveillance since completion of a baseline census (2002-2004). The surveillance system collects data on vital events and migration for individuals and for households. It also provides data on cause-specific mortality obtained by verbal autopsy for all age groups, and estimates rates of disease for specific presentations via linkage to clinical facility data. The Karonga HDSS provides a structure for surveys of socio-economic status, HIV sero-prevalence and incidence, sexual behaviour, fertility intentions and a sampling frame for other studies, as well as evaluating the impact of interventions, such as antiretroviral therapy and vaccination programmes. Uniquely, it relies on a network of village informants to report vital events and household moves, and furthermore is linked to an archive of biological samples and data from population surveys and other studies dating back three decades.

**KIND OF DATA**

Event history data

**UNITS OF ANALYSIS**

Individual

**TOPICS**

Topic	Vocabulary	URI
Demography [N01.224]	MeSH	<a href="http://www.ncbi.nlm.nih.gov/mesh">http://www.ncbi.nlm.nih.gov/mesh</a>

**KEYWORDS**

Demography,, Census,, Vital statistics,, Mortality, Population dynamics, Life expectancy, Malawi, Sub-Saharan Africa

### Coverage

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**GEOGRAPHIC COVERAGE**

The Karonga HDSS surrounds the port village of Chilumba, on Lake Malawi, in the southern part of Karonga District . The surveillance area is located between latitudes 10.388 and 10.508S and longitudes 34.088 and 34.278E, covering an area of approximately 135 km<sup>2</sup>. The lake shore and the Nyika National Park form the boundaries to the east and west, respectively, whereas the boundaries to the north and south are delineated by village boundaries

**UNIVERSE**

The DSS covers all the individuals of all age who are members of households and are residents within the geographical boundaries of the study area. Visitors too were captured in the baseline survey.

Of the 35 730 individuals under observation, at the end of 2011, the last year through which this data covers, 48% (16

818/35 730) were male, 18% (6265/35 730) were under 5 years and 48% (17 158/ 35 730) were under 15 years of age. In all, 47% (16 684/35 730) of the population were aged between 15 and 59 years, and 5% (1888/35 730) were aged 60 years and above. The majority of the population under surveillance are rural dwellers that depend on subsistence farming and fish from the lake as a source of their livelihood.

## Producers and Sponsors

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### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Menard Chihana	Karonga Prevention Study
Amelia C. Crampin	London School of Hygiene and Tropical Medicine

### OTHER PRODUCER(S)

Name	Affiliation	Role
Karonga Prevention Study	London School of Hygiene and Tropical Medicine	Original producer

### FUNDING

Name	Abbreviation	Role
Wellcome Trust		All stages of data production process

### OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Keith		

## Metadata Production

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### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Keith Branson	KB	INDEPTH Network	Data Manager
Karonga Prevention Study	KPS	LSHTM	agency
INDEPTH Network	INDEPTH	INDEPTH Network	agency
iSHARE2 Technical Team	isTT	INDEPTH Network	Technical Support

### DATE OF METADATA PRODUCTION

2015-07-25

### DDI DOCUMENT VERSION

DDI.INDEPTH.MW011.CMD2011.v2

### DDI DOCUMENT ID

DDI.INDEPTH.MW011.CMD2011.v2

# Sampling

## Sampling Procedure

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The whole population

## Weighting

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NA

# Questionnaires

## Overview

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Base Line Census

CBR

CENM

DEP

VA

gp\_hhold

## Data Collection

### Data Collection Dates

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2002-09-01	2013-12-31	yearly

### Time Periods

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2003-01-01	2011-12-31	N/A

### Data Collection Mode

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Face-to-face [f2f]

# Data Processing

## Data Editing

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Data was left censored to 1 Jan 2003 to account for the start-up phase of the surveillance.

## Data Appraisal

No content available



# File Description

# Variable List

**MW011.CMD2011**

Content Event HistoryDataset  
 Cases 203006  
 Variable(s) 14  
 Structure Type:  
 Keys: ()  
 Version 1.v1  
 Producer  
 Missing Data

**Variables**

ID	Name	Label	Type	Format	Question
V1	RecNr	RecNr	contin	numeric	
V2	CountryId	CountryId	discrete	numeric	
V3	CentrelId	CentrelId	discrete	character	
V4	IndividualId	IndividualId	contin	numeric	
V5	Sex	Sex	discrete	numeric	
V6	DoB	DoB	discrete	character	
V7	EventCount	EventCount	discrete	numeric	
V8	EventNr	EventNr	contin	numeric	
V9	EventCode	EventCode	discrete	character	
V10	EventDate	EventDate	discrete	character	
V11	ObservationDate	ObservationDate	discrete	character	
V12	LocationId	LocationId	contin	numeric	
V13	MotherId	MotherId	contin	numeric	
V14	DeliveryId	DeliveryId	discrete	numeric	



**RecNr (RecNr)**

File: MW011.CMD2011

**Overview**

Type: Continuous	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-192239	Maximum: 203006
	Mean: 101503.5
	Standard deviation: 58602.9

**Description**

A sequential number uniquely identifying each record in the data file

**CountryId (CountryId)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	
Range: 454-454	

**Description**

ISO 3166-1 numeric code of the country in which the surveillance site is situated

**CentreId (CentreId)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: character	Invalid: 0
Width: 5	

**Description**

An identifier issued by INDEPTH to each member centre of the format CCNNS, Where CCNNS is the INDEPTH Member site code, constructed as follows:

- CC the ISO 3166-1 alpha-2 code of the country where the site is situated
- NN is a sequential number uniquely identifying an INDEPTH member centre within the country. Starting with 01 to 99, for a maximum of 99 centres per country
- S is a sequential character uniquely identifying the geographical surveillance site. Starting with 1 to 9, thereafter A to Z, for a maximum of 35 sites per centre.

**IndividualId (IndividualId)**

File: MW011.CMD2011

**Overview**

Type: Continuous	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-60235	Maximum: 63017
	Mean: 31516.4
	Standard deviation: 18199

**Description**

A number uniquely identifying all the records belonging to a specific individual in the data file. This number is not the same as the identifier used by contributing centre to identify the individual.

**Sex (Sex)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	
Range: 0-2	

**Description**

Sex of individual

**DoB (DoB)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: character	Minimum: NaN
Width: 23	Maximum: NaN

**Description**

The date of birth of the individual Format: YYYY-MM-DD

**EventCount (EventCount)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	
Range: 2-22	

**Description**

The total number of events associated with the individual in this dataset

**EventNr (EventNr)**

File: MW011.CMD2011

**Overview**

Type: Continuous	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-22	Maximum: 25
	Mean: 2.9
	Standard deviation: 2.1

**Description**

A number increasing from 1 to EventCount for each event record in order of event occurrence

**EventCode (EventCode)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: character	Invalid: 0
Width: 3	

**EventCode (EventCode)**

File: MW011.CMD2011

**Description**

A code identifying the type of event that has occurred

**EventDate (EventDate)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: character	Minimum: NaN
Width: 23	Maximum: NaN

**Description**

The date on which the event occurred: Format YYYY-MM-DD

**ObservationDate (ObservationDate)**

File: MW011.CMD2011

**Overview**

Type: Discrete	Valid cases: 203006
Format: character	Minimum: NaN
Width: 23	Maximum: NaN

**Description**Date on which the event was observed (recorded), also known as surveillance visit date:  
Format YYYY-MM-DD**LocationId (LocationId)**

File: MW011.CMD2011

**Overview**

Type: Continuous	Valid cases: 203006
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-14463	Maximum: 14258
	Mean: 7153.7
	Standard deviation: 4120.3

**Description**

Unique identifier associated with a residential unit within the site and is the location where the individual was or became resident when the event occurred. For data anonymization purposes, this identifier should not be the same as the identifier used internally by the contributing centre, but the contributing centre should retain a mapping of this identifier to their internal location identifier

**MotherId (MotherId)**

File: MW011.CMD2011

**Overview**

Type: Continuous	Valid cases: 22673
Format: numeric	Invalid: 180333
Decimals: 0	Minimum: 10
Range: 56633-63158	Maximum: 63157
	Mean: 32216.2
	Standard deviation: 18488.6

## **MotherId (MotherId)**

File: MW011.CMD2011

### **Description**

The IndividualId of the mother. Only provided for BTH event

## **DeliveryId (DeliveryId)**

File: MW011.CMD2011

### **Overview**

Type: Discrete  
Format: numeric  
Decimals: 0  
Range: 1-6

Valid cases: 22673  
Invalid: 180333

### **Description**

The RecNr of the delivery event associated with this birth



