# Kenya - KE021 Excess Mortality: Surveillance Episodes Datasets

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

# Overview

## Identification

ID NUMBER
KE021-EXMORTALITY-01

## Version

VERSION DESCRIPTION
v1: Dataset for public distribution.

PRODUCTION DATE
2023-06-01

NOTES
v1: Dataset for public distribution.

## Overview

ABSTRACT
Following the declaration of COVID-19 as a pandemic by the World Health Organization, there have been high levels of reported deaths, at least in countries with functioning civil registration and vital statistics (CRVS). These largely under-represent the true mortality due to COVID-19. A fundamental question, then, is what is the impact of COVID-19 on mortality and the scale of excess deaths, and the population sub-groups most affected, particularly in low- and middle-income settings? Constructing a true representation of COVID-19 deaths can be useful for social policies and future pandemic preparedness planning. The goal of this initiative is to characterise all-cause mortality rates and trends, by age and sex, across a range of rural and urban sub-Saharan African and South Asian settings under continuous health and demographic surveillance.

This a multinational initiative bringing together 17 sites/centres from Africa and South Asia. This dataset represents a snapshot of the continually evolving data in the underlying longitudinal databases maintained by the nodes.

KIND OF DATA
Event history data

UNITS OF ANALYSIS
Exposure Episodes

## Scope

NOTES
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 or marital status, will likewise result in a new episode on the date of the change.

TOPICS

| Topic | Vocabulary | URI |
|---|---|---|

| Topic | Vocabulary | URI |
|---|---|---|
| Episodes, Mortality, Migration | | |

KEYWORDS
Episodes, Mortality, Migration

# Coverage

GEOGRAPHIC COVERAGE
Contiguous site located in Siaya County (HDSS comprises Asembo, Gem and Karemo sub-countries), situated northeast of Lake Victoria, Nyanza Province, Western Kenya.

UNIVERSE
Households resident in dwellings within the study area will be eligible for inclusion in the surveillance. All individuals identified by the household proxy informant as a member of the household will be enumerated. A resident household member is an individual that intends to sleep the majority of time at the dwelling occupied by the household over a four-month period. Households will 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 most of the time. They 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

PRIMARY INVESTIGATOR(S)

| Name | Affiliation |
|---|---|
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OTHER PRODUCER(S)

| Name | Affiliation | Role |
|---|---|---|
| Chodziwadziwa Kabudula | Agincourt | Technical Assistance |
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| Jean Bashingwa | Agincourt | Technical Assistance |
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| Rhulani Silaule | Agincourt | Technical Assistance |

FUNDING

| Name | Abbreviation | Role |
|---|---|---|
| Bill & Melinda Gates Foundation, Seattle, WA | BMGF | Current Funder |
| South African Population Research Infrastructure Network, South Africa | SAPRIN | Current Funder |
| Wellcome Trust, UK | Wellcome | Previous Funder |

OTHER ACKNOWLEDGEMENTS

| Name | Affiliation | Role |
|---|---|---|
| SAMRC/Wits Agincourt Team | Agincourt | Data Review |
| Kobus Herbst | SAPRIN | Data Review And QA |
| CHAMPS Team | CHAMPS | Reviews |

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| SAMRC/Wits Agincourt Team | Agincourt | Data Review |
| Kobus Herbst | SAPRIN | Data Review And QA |
| CHAMPS Team | CHAMPS | Reviews |

# Sampling

## Sampling Procedure

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

# Questionnaires

## Overview

The data on this Repository is not the result of a single questionnaire but is a result of harmonised data from three different sites longitudinally collected over more than twenty years using different questionnaires that varied over time and site.

# Data Collection

## Data Collection Dates

| **Start** | **End** | **Cycle** |
|---|---|---|
| 2015-01-01 | 2021-12-31 | Agincourt |

## Time Periods

| **Start** | **End** | **Cycle** |
|---|---|---|
| 2015-01-01 | | Agincourt |

## Data Collection Notes

In all the HDSS nodes, data are collected from a household proxy respondent, preferably the head of household or any next available senior adult resident household member, after informed consent was obtained by trained fieldworkers. Respondents are informed of the purpose and confidentiality of the interview, their right to refuse participation or withdraw from the study, and that scientists would be given access to anonymised data to analyse and publish information.

## Questionnaires

The data on this Repository is not the result of a single questionnaire but is a result of harmonised data from three different sites longitudinally collected over more than twenty years using different questionnaires that varied over time and site.

# Data Processing

## Data Editing

The first step in the data preparation process is quality assurance. The Data Management hub team assess the data submitted to ensure it is in the correct format and falls within expected value ranges. Other potential issues checked include: missing data, incorrect data types, unexpected duplicate or orphan records. The principle of the data quality checks is that if the data conversion conducted by the nodes was complete and accurate, there should be little or no difference in the data quality and demographic indicators between the base and versions of the nodal data. If the data submitted by the nodes meets the criteria for inclusion into the consolidated dataset the data moves to the second step of the data production process. However, if the data fail the inclusion checks, this could then lead to another iteration of data submission and quality control checks until Data Management hub is satisfied that they have high quality data.

# Data Appraisal

## Estimates of Sampling Error

Not Applicable

# File Description

# Variable List

# KE021_RawCensoredEpisodes

| Content | |
|---|---|
| Cases | 589030 |
| Variable(s) | 13 |
| Structure | Type:<br>Keys: () |
| Version | |
| Producer | |
| Missing Data | |

## Variables

| ID | Name | Label | Type | Format | Question |
|---|---|---|---|---|---|
| V14 | recnr | RecNr | contin | numeric | |
| V15 | countryid | CountryId | discrete | numeric | |
| V16 | centreid | CentreId | discrete | character | |
| V17 | individualid | IndividualId | discrete | character | |
| V18 | sex | Sex | discrete | numeric | |
| V19 | dob | DoB | discrete | character | |
| V20 | episode | Episode | discrete | numeric | |
| V21 | episodes | Episodes | discrete | numeric | |
| V22 | startevent | StartEvent | discrete | character | |
| V23 | startdate | Start Date | discrete | character | |
| V24 | endevent | EndEvent | discrete | character | |
| V25 | enddate | End Date | discrete | character | |
| V26 | days | Days | contin | numeric | |

# RecNr (recnr)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Continuous
Format: numeric
Width: 12
Decimals: 0
Range: 1-589077

Valid cases: 589030
Invalid: 0
Minimum: 1
Maximum: 589077
Mean: 294527.7
Standard deviation: 170051.2

# CountryId (countryid)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 404-404

Valid cases: 589030
Invalid: 0

# CentreId (centreid)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 5

Valid cases: 589030
Invalid: 0

# IndividualId (individualid)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 13

Valid cases: 589030
Invalid: 0

# Sex (sex)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 1-2

Valid cases: 589030
Invalid: 0

# DoB (dob)
## File: KE021_RawCensoredEpisodes

**Overview**

# DoB (dob)
## File: KE021_RawCensoredEpisodes

Type: Discrete
Format: character
Width: 11

Valid cases: 589030
Minimum: NaN
Maximum: NaN

# Episode (episode)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 1-10

Valid cases: 589030
Invalid: 0

# Episodes (episodes)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: numeric
Width: 8
Decimals: 0
Range: 1-10

Valid cases: 589030
Invalid: 0

# StartEvent (startevent)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 3

Valid cases: 589030
Invalid: 0

# Start Date (startdate)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 11

Valid cases: 589030
Minimum: NaN
Maximum: NaN

# EndEvent (endevent)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 3

Valid cases: 589030
Invalid: 0

## End Date (enddate)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Discrete
Format: character
Width: 11

Valid cases: 589030
Minimum: NaN
Maximum: NaN

## Days (days)
## File: KE021_RawCensoredEpisodes

**Overview**

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 1-2922

Valid cases: 589030
Invalid: 0
Minimum: 1
Maximum: 2922
Mean: 1154.3
Standard deviation: 914.5