# Burkina Faso - BF021 Excess Mortality: Surveillance Episodes Datasets

Prof Steve Tollman - Agincourt
Prof Kathleen Khan - Agincourt
Dr Kobus Herbst - SAPRIN
Dr Chodziwadziwa Kabudula - Agincourt
Dr Beth Tippett-Barr - Nyanja Health Research Institute

Report generated on: December 22, 2023

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

## Overview

## **Identification**

ID NUMBER BF021-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
lopic	vocabulary	UKI

Topic	Vocabulary	URI
Episodes, Mortality, Migration		

**KEYWORDS** 

Episodes, Mortality, Migration

## Coverage

#### GEOGRAPHIC COVERAGE

The Nanoro Health and Demographic Surveillance System (HDSS), located in the rural centre of Burkina Faso, was established in 2009 by the Clinical Research Unit of Nanoro with the aim of providing a core framework for clinical trials and also to support the Burkina Faso health authorities in generating epidemiological data that can contribute to the setup and assessment of health interventions. In the baseline of initial census, 54 781 individuals were recorded of whom 56.1% are female. After the initial census, vital events such as pregnancies, births, migrations and deaths have been monitored, and data on individuals and household characteristics are updated during regular 4-monthly household visits. The available data are categorized into demographic, cultural, socio-economic and health information, and are used for monitoring and evaluation of population development issues. As a young site, our objective has been to strengthen our skills and knowledge and share new scientific experiences with INDEPTH and HDSS sites in Burkina Faso.

#### **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
Prof Steve Tollman	Agincourt
Prof Kathleen Khan	Agincourt
Dr Kobus Herbst	SAPRIN
Dr Chodziwadziwa Kabudula	Agincourt
Dr Beth Tippett-Barr	Nyanja Health Research Institute

#### OTHER PRODUCER(S)

Name	Affiliation	Role
Chodziwadziwa Kabudula	Agincourt	Technical Assistance
Kobus Herbst	SAPRIN	Technical Assistance
Daniel Ohene-Kwofie	Agincourt	Technical Assistance
Jean Bashingwa	Agincourt	Technical Assistance
Nkosinathi Masilela	Agincourt	Technical Assistance
Rhulani Silaule	Agincourt	Technical Assistance

#### **FUNDING**

Name Abbreviation Ro	Role
----------------------	------

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

DDI DOCUMENT ID BF021-EXMORTALITY-01

# 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**

StartEndCycle2015-01-01Agincourt

### **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**

# ${\bf BF021\_RawCensoredEpisodes}$

Content

Cases 104843

Variable(s) 13

Structure Type: Keys: ()

Version
Producer
Missing Data

## **Variables**

ID	Name	Label	Туре	Format	Question
V14	recnr	RecNr	contin	numeric	
V15	countryid	Countryld	discrete	numeric	
V16	centreid	Centreld	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: BF021 RawCensoredEpisodes

#### Overview

Type: Continuous Valid cases: 104843
Format: numeric Invalid: 0
Width: 12

 Width: 12
 Minimum: 1

 Decimals: 0
 Maximum: 104843

 Range: 1-104843
 Mean: 52422

Standard deviation: 30265.7

## CountryId (countryid)

File: BF021 RawCensoredEpisodes

#### **Overview**

Type: Discrete Format: numeric Width: 8 Decimals: 0 Range: 854-854 Valid cases: 104843

Invalid: 0

## CentreId (centreid)

File: BF021 RawCensoredEpisodes

#### **Overview**

Type: Discrete Format: character Width: 5

Valid cases: 104843

Invalid: 0

## IndividualId (individualid)

File: BF021 RawCensoredEpisodes

#### Overview

Type: Discrete Format: character Width: 12 Valid cases: 104843

Invalid: 0

Sex (sex)

File: BF021 RawCensoredEpisodes

#### Overview

Type: Discrete Format: numeric Width: 8 Decimals: 0 Range: 1-2 Valid cases: 104843

Invalid: 0

DoB (dob)

File: BF021 RawCensoredEpisodes

#### Overview

## DoB (dob)

## File: BF021 RawCensoredEpisodes

Type: Discrete Valid cases: 104843 Format: character Minimum: NaN Width: 11 Maximum: NaN

## Episode (episode)

## File: BF021 RawCensoredEpisodes

#### Overview

Type: Discrete Format: numeric Width: 8 Decimals: 0 Range: 1-5

Valid cases: 104843

Invalid: 0

## Episodes (episodes)

## File: BF021 RawCensoredEpisodes

#### **Overview**

Type: Discrete Format: numeric Width: 8 Decimals: 0 Range: 1-5

Valid cases: 104843

Invalid: 0

## StartEvent (startevent)

## File: BF021 RawCensoredEpisodes

#### **Overview**

Type: Discrete Format: character Width: 3

Valid cases: 104843

Invalid: 0

## Start Date (startdate)

## File: BF021 RawCensoredEpisodes

#### Overview

Type: Discrete Format: character Width: 11

Valid cases: 104843 Minimum: NaN Maximum: NaN

## EndEvent (endevent)

## File: BF021 RawCensoredEpisodes

#### **Overview**

Type: Discrete Format: character

Width: 3

Valid cases: 104843

Invalid: 0

# End Date (enddate)

# File: BF021\_RawCensoredEpisodes

### Overview

Type: Discrete Valid cases: 104843
Format: character Minimum: NaN
Width: 11 Maximum: NaN

# Days (days)

# File: BF021\_RawCensoredEpisodes

#### Overview

Type: Continuous Format: numeric Width: 8 Decimals: 0 Range: 1-2740 Valid cases: 104843 Invalid: 0 Minimum: 1 Maximum: 2740 Mean: 1547.5

Standard deviation: 935.7