

# Bangladesh - BD013 Excess Mortality: Surveillance Episodes Datasets

**Syed Manzoor Ahmed Hanifi - Chakaria HDSS**

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

## Overview

### Identification

#### ID NUMBER

BD013-EXMORTALITY-02

### 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
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Topic	Vocabulary	URI
Episodes, Mortality, Migration		

## KEYWORDS

Episodes, Mortality, Migration

## Coverage

## GEOGRAPHIC COVERAGE

The data are collected from the Chakaria Health and Demographic Surveillance System (HDSS) situated in rural Southeast coast of Bangladesh, 348 kilometres from the capital city of Dhaka, and 8 kilometres off the shoreline of the Bay of Bengal.

The Chakaria HDSS currently covers approximately 90,000 individuals living in 18,000 households

## 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
Syed Manzoor Ahmed Hanifi	Chakaria HDSS

## OTHER PRODUCER(S)

Name	Affiliation	Role
Srizan Chowdhury	Chakaria HDSS	Technical Assistance
Ashish Paul	Chakaria HDSS	Technical Assistance
Md. Sharif Al Hasan	Chakaria HDSS	Technical Assistance
Md. Mehedi Hasan	Chakaria HDSS	Technical Assistance

## FUNDING

Name	Abbreviation	Role
Bill & Melinda Gates Foundation, Seattle, WA	BMGF	Current Funder
Government of Bangladesh	GoB	Current Funder
Global Affairs Canada	GAC	Current Funder

## OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Chakaria HDSS Data Team	Chakaria HDSS	Providing Data
SAMRC/Wits Agincourt Team	Agincourt	Data Review
Kobus Herbst	SAPRIN	Data Review And QA
Dr Beth Tippet-Barr	Nyanja Health Research Institute	Reviews

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## Sampling

### **Sampling Procedure**

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

# Questionnaires

## Overview

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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

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Start	End	Cycle
01-01-1999	31-12-2021	4

### Time Periods

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Start	End	Cycle
01-01-1999		4

### Data Collection Notes

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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

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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

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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

**BD013\_RawCensoredEpisodes**

Content

Cases 143536

Variable(s) 13

Structure Type:  
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	contin	numeric	
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: BD013\_RawCensoredEpisodes

**Overview**

Type: Continuous	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 12	Minimum: 1
Decimals: 0	Maximum: 143536
Range: 1-143536	Mean: 71768.5
	Standard deviation: 41435.4

## CountryId (countryid)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 50-50	

## CentreId (centreid)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: character	Invalid: 0
Width: 5	

## IndividualId (individualid)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Continuous	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 10	Minimum: 10300080006
Decimals: 0	Maximum: 35205890006
Range: 10300080006-35205890006	Mean: 23619691398.4
	Standard deviation: 8223898730.8

## Sex (sex)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-2	

DoB (dob)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Episode (episode)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-5	

Episodes (episodes)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: numeric	Invalid: 0
Width: 8	
Decimals: 0	
Range: 1-5	

StartEvent (startevent)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: character	Invalid: 0
Width: 3	

Start Date (startdate)

File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete	Valid cases: 143536
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

EndEvent (endevent)

File: BD013\_RawCensoredEpisodes

**Overview**

## EndEvent (endevent)

## File: BD013\_RawCensoredEpisodes

Type: Discrete  
 Format: character  
 Width: 3

Valid cases: 143536  
 Invalid: 0

## End Date (enddate)

## File: BD013\_RawCensoredEpisodes

**Overview**

Type: Discrete  
 Format: character  
 Width: 11

Valid cases: 143536  
 Minimum: NaN  
 Maximum: NaN

## Days (days)

## File: BD013\_RawCensoredEpisodes

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 8  
 Decimals: 0  
 Range: 1-2557

Valid cases: 143536  
 Invalid: 0  
 Minimum: 1  
 Maximum: 2557  
 Mean: 1534.6  
 Standard deviation: 943.6



