

South Africa - South Africa - Linking the timing of a mother's and child's death, 2000-2015

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Report generated on: January 18, 2021

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Overview

Identification

ID NUMBER

AHRI.Months.Mother.Dead-02

Overview

ABSTRACT

The effect of the period before a mother's death on child survival has been assessed in only a few studies. We conducted a comparative investigation of the effect of the timing of a mother's death on child survival up to age five years in rural South Africa. We used discrete time survival analysis on data from two HIV-endemic population surveillance sites (2000-2015) to estimate a child's risk of dying before and after their mother's death. We tested if this relationship varied between sites and by availability of antiretroviral therapy (ART). We assessed if related adults in the household altered the effect of a mother's death on child survival.

KIND OF DATA

Event History Data

UNITS OF ANALYSIS

Individual

TOPICS

Topic	Vocabulary	URI
Mortality [N01.224.935.698], Child Mortality [N01.224.935.698.150]	Africa Health Research Institute	www.ahri.org

KEYWORDS

Child mortality; maternal death; rural; South Africa

Coverage

GEOGRAPHIC COVERAGE

Demographic surveillance area: Agincourt, South Africa

Demographic surveillance area: Africa Health Research Institute, South Africa

UNIVERSE

All resident children under the age of five in the surveillance area

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Houle, Brian	School of Demography, The Australian National University
Kabudula, Chodziwadziwa W	MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, Faculty of Health Sciences, University of the Witwatersrand
Gareta, Dickman	Africa Health Research Institute
Herbst, Kobus	Africa Health Research Institute

Clark, Samuel J	Department of Sociology, The Ohio State University
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OTHER PRODUCER(S)

Name	Affiliation	Role
Africa Health Research Institute		

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
We thank the outstanding field staff at the Africa Health Research Institute for their work in conducting the demographic health survey field work, as well as the community and the study participants for their time and efforts. The Demographic Health surveillance is a node of the South African Population Research Infrastructure Network (SAPRIN) and funded by the South African Department of Science and Innovation and hosted by the South African Medical Research Council.		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Africa Health Research Institute	AHRI		

DDI DOCUMENT ID

DDI.AHRI.Months.Mother.Dead-02

Sampling

Sampling Procedure

Household census

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2000-01-01	2015-12-04	N/A

Data Processing

Data Editing

Cause of death information for both child and mother based on verbal autopsy interviews processed using InterVA-5.

Data Appraisal

No content available

File Description

Variable List

MonthsMotherDead-02

Content

Cases 3687035

Variable(s) 21

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	child_id	Child ID number	contin	numeric	
V2	mother_id	Mother ID number	contin	numeric	
V3	dead	Child death	discrete	numeric	
V4	child_sex	Child sex	discrete	numeric	
V5	child_age_group	Child age group	discrete	numeric	
V6	dss_indicator	DSS indicator	discrete	numeric	
V7	time_period	Time periods	discrete	numeric	
V8	months_mother_dead	Months mother dead indicator	discrete	numeric	
V9	months_mother_dead_pre_post	Alternate months mother dead indicator	discrete	numeric	
V10	mother_age_birth	Mother's age at birth	discrete	numeric	
V11	multiple_birth	Multiple birth indicator	discrete	numeric	
V12	other_children	Number of other children in household	discrete	numeric	
V13	father_present	Father present	discrete	numeric	
V14	brother_present	Brother present	discrete	numeric	
V15	sister_present	Sister present	discrete	numeric	
V16	aunt_present	Aunt present	discrete	numeric	
V17	uncle_present	Uncle present	discrete	numeric	
V18	grandmother_present	Grandmother present	discrete	numeric	
V19	child_cod	Child cause of death groups	discrete	numeric	
V20	mother_cod	Mother cause of death groups	discrete	numeric	
V21	ses_tertiles	Household SES, tertiles	discrete	numeric	

Child ID number (child_id)

File: MonthsMotherDead-02

Overview

Type: Continuous	Valid cases: 3687035
Format: numeric	Invalid: 0
Width: 9	Minimum: 1
Decimals: 0	Maximum: 101111
Range: 1-101111	Mean: 44656.7
	Standard deviation: 31024.4

Mother ID number (mother_id)

File: MonthsMotherDead-02

Overview

Type: Continuous	Valid cases: 3687035
Format: numeric	Invalid: 0
Width: 9	Minimum: 1
Decimals: 0	Maximum: 61654
Range: 1-61654	Mean: 27693.3
	Standard deviation: 18363.8

Child death (dead)

File: MonthsMotherDead-02

Overview

Type: Discrete	Valid cases: 3687035
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 0-1	

Child sex (child_sex)

File: MonthsMotherDead-02

Overview

Type: Discrete	Valid cases: 3687035
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 0-1	

Child age group (child_age_group)

File: MonthsMotherDead-02

Overview

Type: Discrete	Valid cases: 3687035
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 0-3	

DSS indicator (dss_indicator)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-2

Valid cases: 3687035
 Invalid: 0

Time periods (time_period)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 2000-2008

Valid cases: 3687035
 Invalid: 0

Months mother dead indicator (months_mother_dead)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-7

Valid cases: 3687035
 Invalid: 0

Alternate months mother dead indicator
(months_mother_dead_pre_post)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-3

Valid cases: 3687035
 Invalid: 0

Mother's age at birth (mother_age_birth)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 1-5

Valid cases: 3687035
 Invalid: 0

Multiple birth indicator (multiple_birth)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Number of other children in household (other_children)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-3

Valid cases: 3687035
 Invalid: 0

Father present (father_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Brother present (brother_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Sister present (sister_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Aunt present (aunt_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Uncle present (uncle_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Grandmother present (grandmother_present)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-1

Valid cases: 3687035
 Invalid: 0

Child cause of death groups (child_cod)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 26
 Decimals: 0
 Range: 1-9

Valid cases: 56087
 Invalid: 3630948

Mother cause of death groups (mother_cod)

File: MonthsMotherDead-02

Overview

Type: Discrete
 Format: numeric
 Width: 18
 Decimals: 0
 Range: 1-5

Valid cases: 211051
 Invalid: 3475984

Household SES, tertiles (ses_tertiles)

File: MonthsMotherDead-02

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 1-3

Valid cases: 2723503
Invalid: 963532

Documentation

Technical documents

Documentation:Linking the timing of mother's and child's death

Title Documentation:Linking the timing of mother's and child's death
Author(s) Sweetness H Dube
Date 18/01/2021
Country South Africa
Language English
Filename AHRI.Months.Mother.Dead-02.pdf

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Title DDI:Linking the timing of a mother's and child's death
Author(s) Sweetness H Dube
Date 18/01/2021
Country South Africa
Language English
Filename AHRI.Months.Mother.Dead-02_1.pdf
