

South Africa

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

Study Documentation

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Metadata Production

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

Overview	
Identification	AHRI.Months.Mother.Dead-02
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
Unit of Analysis	Individual

Scope & Coverage	
Keywords	Child mortality; maternal death; rural; South Africa
Topics	Mortality [N01.224.935.698], Child Mortality [N01.224.935.698.150]
Time Period(s)	2000-2015
Countries	South Africa
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 & Sponsors	
Primary Investigator(s)	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
Other Producer(s)	Africa Health Research Institute (AHRI)
Other Acknowledgment(s)	We thank the outstanding field staff at the Africa Health Research Institute (AHRI) and MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt) 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. AHRI and Agincourt are nodes 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.

Sampling
Sampling Procedure

Household census

Data Collection

Data Collection Dates	start 2000-01-01 end 2015-12-04
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Data Processing & Appraisal**Data Editing**

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

Accessibility**Access Conditions**

The representative of the Receiving Organization agrees to comply with the following conditions:

1. Access to the restricted data will be limited to the Lead Researcher and other members of the research team listed in this request.
2. Copies of the restricted data or any data created on the basis of the original data will not be copied or made available to anyone other than those mentioned in this Data Access Agreement, unless formally authorized by the Data Archive.
3. The data will only be processed for the stated statistical and research purpose. They will be used for solely for reporting of aggregated information, and not for investigation of specific individuals or organizations. Data will not in any way be used for any administrative, proprietary or law enforcement purposes.
4. The Lead Researcher must state if it is their intention to match the restricted microdata with any other micro-dataset. If any matching is to take place, details must be provided of the datasets to be matched and of the reasons for the matching. Any datasets created as a result of matching will be considered to be restricted and must comply with the terms of this Data Access Agreement.
5. The Lead Researcher undertakes that no attempt will be made to identify any individual person, family, business, enterprise or organization. If such a unique disclosure is made inadvertently, no use will be made of the identity of any person or establishment discovered and full details will be reported to the Data Archive. The identification will not be revealed to any other person not included in the Data Access Agreement.
6. The Lead Researcher will implement security measures to prevent unauthorized access to licensed microdata acquired from the Data Archive. The microdata must be destroyed upon the completion of this research, unless the Data Archive obtains satisfactory guarantee that the data can be secured and provides written authorization to the Receiving Organization to retain them. Destruction of the microdata will be confirmed in writing by the Lead Researcher to the Data Archive.
7. Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from the Data Archive will cite the source of data in accordance with the citation requirement provided with the dataset.
8. An electronic copy of all reports and publications based on the requested data will be sent to the Data Archive.
9. The original collector of the data, the Data Archive, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.
10. This agreement will come into force on the date that approval is given for access to the restricted dataset and remain in force until the completion date of the project or an earlier date if the project is completed ahead of time.
11. If there are any changes to the project specification, security arrangements, personnel or organization detailed in this application form, it is the responsibility of the Lead Researcher to seek the agreement of the Data Archive to these changes. Where there is a change to the employer organization of the Lead Researcher this will involve a new application being made and termination of the original project.
12. Breaches of the agreement will be taken seriously and the Data Archive will take action against those responsible for the lapse if willful or accidental. Failure to comply with the directions of the Data Archive will be deemed to be a major breach of the agreement and may involve recourse to legal proceedings. The Data Archive will maintain and share with partner data archives a register of those individuals and organizations which are responsible for breaching the terms of the Data Access Agreement and will impose sanctions on release of future data to these parties.

Citation Requirements

Houle, B., Kabudula, C. W., Gareta, D., Herbst, K., & Clark, S. J. (2021). South Africa - Linking the timing of a mother's and child's death, 2000-2015 [Data set]. Africa Health Research Institute (AHRI). <https://doi.org/10.23664/AHRI.MONTHS.MOTHER.DEAD-02>

Files Description

Dataset contains 1 file(s)

MonthsMotherDead-02	
# Cases	3687035
# Variable(s)	21
Notes	
MonthsMotherDead-02.dta Anonymised data for public use 2021-01-12	

Variables List

Dataset contains 21 variable(s)

File MonthsMotherDead-02							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	child_id	Child ID number	continuous	numeric-9.0	3687035	0	-
2	mother_id	Mother ID number	continuous	numeric-9.0	3687035	0	-
3	dead	Child death	discrete	numeric-12.0	3687035	0	-
4	child_sex	Child sex	discrete	numeric-9.0	3687035	0	-
5	child_ag..	Child age group	discrete	numeric-12.0	3687035	0	-
6	dss_indi..	DSS indicator	discrete	numeric-9.0	3687035	0	-
7	time_per..	Time periods	discrete	numeric-9.0	3687035	0	-
8	months_m..	Months mother dead indicator	discrete	numeric-12.0	3687035	0	-
9	months_m..	Alternate months mother dead indicator	discrete	numeric-12.0	3687035	0	-
10	mother_a..	Mother's age at birth	discrete	numeric-9.0	3687035	0	-
11	multiple..	Multiple birth indicator	discrete	numeric-9.0	3687035	0	-
12	other_ch..	Number of other children in household	discrete	numeric-9.0	3687035	0	-
13	father_p..	Father present	discrete	numeric-12.0	3687035	0	-
14	brother_..	Brother present	discrete	numeric-9.0	3687035	0	-
15	sister_p..	Sister present	discrete	numeric-9.0	3687035	0	-
16	aunt_pre..	Aunt present	discrete	numeric-9.0	3687035	0	-
17	uncle_pr..	Uncle present	discrete	numeric-9.0	3687035	0	-
18	grandmot..	Grandmother present	discrete	numeric-12.0	3687035	0	-
19	child_cod	Child cause of death groups	discrete	numeric-26.0	56087	3630948	-
20	mother_cod	Mother cause of death groups	discrete	numeric-18.0	211051	3475984	-
21	ses_tert..	Household SES, tertiles	discrete	numeric-9.0	2723503	963532	-

Variables Description

Dataset contains 21 variable(s)

File : MonthsMotherDead-02

child_id: Child ID number

Information	[Type= continuous] [Format=numeric] [Range= 1-101111] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-] [Mean=44656.736 /-] [StdDev=31024.392 /-]
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mother_id: Mother ID number

Information	[Type= continuous] [Format=numeric] [Range= 1-61654] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-] [Mean=27693.296 /-] [StdDev=18363.774 /-]
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dead: Child death

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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child_sex: Child sex

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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child_age_group: Child age group

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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dss_indicator: DSS indicator

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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time_period: Time periods

Information	[Type= discrete] [Format=numeric] [Range= 2000-2008] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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months_mother_dead: Months mother dead indicator

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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months_mother_dead_pre_post: Alternate months mother dead indicator

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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mother_age_birth: Mother's age at birth

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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multiple_birth: Multiple birth indicator

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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other_children: Number of other children in household

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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father_present: Father present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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File : MonthsMotherDead-02

father_present: Father present

Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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brother_present: Brother present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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sister_present: Sister present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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aunt_present: Aunt present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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uncle_present: Uncle present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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grandmother_present: Grandmother present

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
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Statistics [NW/ W]	[Valid=3687035 /-] [Invalid=0 /-]
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child_cod: Child cause of death groups

Information	[Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]
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Statistics [NW/ W]	[Valid=56087 /-] [Invalid=3630948 /-]
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mother_cod: Mother cause of death groups

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
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Statistics [NW/ W]	[Valid=211051 /-] [Invalid=3475984 /-]
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ses_tertiles: Household SES, tertiles

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
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Statistics [NW/ W]	[Valid=2723503 /-] [Invalid=963532 /-]
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