

**South Africa**

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## **Birth weight and human capital in South Africa, 2012-2014**

**Study Documentation**

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# Metadata Production

Metadata Producer(s)	Africa Health Research Institute (AHRI)
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## Birth weight and human capital in South Africa, 2012-2014

Overview	
<b>Identification</b>	AHRI.Siyakhula.Cohort.Study.And.Vertical.Transmission.Study.Datasets
<b>Version</b>	V1.0.0
<b><u>Abstract</u></b> The Siyakhula cohort study and Vertical Transmission Study provide measures of birth weight and perinatal factors and measures of cognition and education outcomes for children aged 10-11 years in 2012-2014 in rural South Africa.	
<b>Kind of Data</b>	Survey Data
<b>Unit of Analysis</b>	Individual

Scope & Coverage	
<b>Keywords</b>	Birth weight; cognition; human capital; rural; South Africa
<b>Topics</b>	Birth Weight; Cognition
<b><u>Time Period(s)</u></b>	2001-2014
<b><u>Countries</u></b>	South Africa
<b><u>Geographic Coverage</u></b> South Africa	
<b><u>Universe</u></b> Children ages 10-11 years in 2012-2014	

Producers & Sponsors	
<b>Primary Investigator(s)</b>	Rochat, Tamsen, University of the Witwatersrand Bland, Ruth, University of Glasgow Houle, Brian, The Australian National University
<b>Other Producer(s)</b>	Africa Health Research Institute (AHRI)
<b>Funding Agency/ies</b>	Grand Challenges Canada (Grand Challenges ) , Sponsor Wellcome Trust (Wellcome Trust ) , Sponsor

Sampling	
<b><u>Sampling Procedure</u></b> Nonrandomised, prospective, intervention cohort study with re-enrollment of HIV-negative children	

Data Collection	
<b>Data Collection Dates</b>	start 2001-01-01 end 2006-12-04 start 2012-01-01 end 2014-12-04

## 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 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

Rochat, T., Bland, R. and Houle, B. (2022) "Birth weight and human capital in South Africa, 2012-2014." Africa Health Research Institute. doi: 10.23664/AHRI.SIYAKHULA.COHORT.STUDY.AND.VERTICAL.TRANSMISSION.STUDY.DATASETS.

# Files Description

Dataset contains 1 file(s)

birthweight-human-capital-01	
# Cases	460
# Variable(s)	17
<b><u>Notes</u></b> 2021-12-01 Data preparation for ASSOCIATIONS BETWEEN BIRTH WEIGHT AND ADULT HUMAN CAPITAL IN LOW AND MIDDLE-INCOME COUNTRIES: A MULTI-COHORT STUDY	

# Variables List

Dataset contains 17 variable(s)

File birthweight-human-capital-01							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	<a href="#">child_id</a>	Child identifier	continuous	numeric-9.0	460	0	-
2	<a href="#">child_age</a>	Child age	discrete	numeric-9.0	459	1	-
3	<a href="#">child_male</a>	Child is male	discrete	numeric-9.0	460	0	-
4	<a href="#">child_twin</a>	Is child a twin?	discrete	numeric-9.0	460	0	-
5	<a href="#">child_tw_..</a>	Is twin in data set?	discrete	numeric-9.0	22	438	-
6	<a href="#">child_bi_..</a>	Child birthweight in kg	continuous	numeric-9.0	437	23	-
7	<a href="#">gestatio_..</a>	Gestational age in weeks	continuous	numeric-9.0	459	1	-
8	<a href="#">mother_a_..</a>	Mother's age at birth	continuous	numeric-9.0	460	0	-
9	<a href="#">mother_e_..</a>	Mother's education status at birth	discrete	numeric-37.0	460	0	-
10	<a href="#">mother_h_..</a>	Mother's HIV status at birth	discrete	numeric-9.0	460	0	-
11	<a href="#">exclusiv_..</a>	Months exclusive breastfeeding	discrete	numeric-9.0	459	1	-
12	<a href="#">ses_frid_..</a>	Household had fridge at birth	discrete	numeric-9.0	459	1	-
13	<a href="#">ses_moth_..</a>	Mother main income provider at birth	discrete	numeric-9.0	459	1	-
14	<a href="#">child_cr_..</a>	Did child attend creche?	discrete	numeric-9.0	460	0	-
15	<a href="#">child_in_..</a>	Is child currently in school?	discrete	numeric-9.0	459	1	-
16	<a href="#">current_..</a>	Child's current school grade	discrete	numeric-9.0	452	8	-
17	<a href="#">child_co_..</a>	Sum of scaled score MPI	continuous	numeric-9.0	459	1	-

# Variables Description

**Dataset contains 17 variable(s)**



# File : birthweight-human-capital-01

## # child\_id: Child identifier

Information	[Type= continuous] [Format=numeric] [Range= 24-2074] [Missing=*]
Statistics [NW/ W]	[Valid=460 /-] [Invalid=0 /-] [Mean=1023.822 /-] [StdDev=718.132 /-]

## # child\_age: Child age

Information	[Type= discrete] [Format=numeric] [Range= 10-11] [Missing=*]
Statistics [NW/ W]	[Valid=459 /-] [Invalid=1 /-]

## # child\_male: Child is male

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=460 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No	226	49.1%
1	Yes	234	50.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

## # child\_twin: Is child a twin?

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=460 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No	438	95.2%
1	Yes	22	4.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

## # child\_twin\_in\_data: Is twin in data set?

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=22 /-] [Invalid=438 /-]

Value	Label	Cases	Percentage
0	No	8	36.4%
1	Yes	14	63.6%
Sysmiss		438	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

## # child\_birthweight\_kg: Child birthweight in kg

Information	[Type= continuous] [Format=numeric] [Range= 0.800000011920929-4.599999990463257] [Missing=*]
Statistics [NW/ W]	[Valid=437 /-] [Invalid=23 /-] [Mean=3.084 /-] [StdDev=0.534 /-]

## # gestational\_age\_weeks: Gestational age in weeks

Information	[Type= continuous] [Format=numeric] [Range= 8-40] [Missing=*]
Statistics [NW/ W]	[Valid=459 /-] [Invalid=1 /-] [Mean=26.198 /-] [StdDev=6.423 /-]

## # mother\_age\_birth: Mother's age at birth

Information	[Type= continuous] [Format=numeric] [Range= 16-54] [Missing=*]
Statistics [NW/ W]	[Valid=460 /-] [Invalid=0 /-] [Mean=26.102 /-] [StdDev=7.027 /-]

## # mother\_edu\_birth: Mother's education status at birth

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=460 /-] [Invalid=0 /-]

## File : birthweight-human-capital-01

### # mother\_edu\_birth: Mother's education status at birth

Value	Label	Cases	Percentage
0	None	29	<div><div></div></div> 6.3%
1	Primary	193	<div><div></div></div> 42.0%
2	Some secondary	155	<div><div></div></div> 33.7%
3	Completed secondary and postsecondary	83	<div><div></div></div> 18.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # mother\_hiv\_birth: Mother's HIV status at birth

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=460 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0	Negative	262	<div><div></div></div> 57.0%
1	Positive	198	<div><div></div></div> 43.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # exclusive\_breastfeeding\_months: Months exclusive breastfeeding

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=459 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0	0-1 mo	37	<div><div></div></div> 8.1%
1	2-5 mo	128	<div><div></div></div> 27.9%
2	6 mo	294	<div><div></div></div> 64.1%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # ses\_fridge\_birth: Household had fridge at birth

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=459 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0	No	288	<div><div></div></div> 62.7%
1	Yes	171	<div><div></div></div> 37.3%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # ses\_mother\_main\_income\_birth: Mother main income provider at birth

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=459 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0	No	425	<div><div></div></div> 92.6%
1	Yes	34	<div><div></div></div> 7.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # child\_creche: Did child attend creche?

<b>Information</b>	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
<b>Statistics [NW/ W]</b>	[Valid=460 /-] [Invalid=0 /-]		

## File : birthweight-human-capital-01

### # child\_creche: Did child attend creche?

Value	Label	Cases	Percentage
0	No	51	<div></div> 11.1%
1	Yes	409	<div></div> 88.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # child\_in\_school: Is child currently in school?

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=459 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
0	No	0	
1	Yes	459	<div></div> 100.0%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

### # current\_school\_grade: Child's current school grade

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=452 /-] [Invalid=8 /-]

### # child\_cognition: Sum of scaled score MPI

Information	[Type= continuous] [Format=numeric] [Range= 20-105] [Missing=*]
Statistics [NW/ W]	[Valid=459 /-] [Invalid=1 /-] [Mean=51.196 /-] [StdDev=11.857 /-]