South Africa - Why do so many children die at home in Rural South Africa?

Jessica Price (PI)
Anthony Harden (supervisor)
Merlin Wilcox (co-supervisor)

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Overview

Identification

ID NUMBER
AHPU.ZA011.CHLDDETHRA.2015

Overview

ABSTRACT
This research will constitute Jessica's DPhil project in Primary Health Care Sciences at Oxford University. The projects aims to better understand the factors that contribute to the large proportion of under-5 deaths that occur at home (as opposed to in health facilities). This involves characterizing home deaths (in comparison to hospital deaths) by cause of death, household socioeconomic and sociodemographic risk factors, and determinants of treatment-seeking behavior/health care usage. It is suspected that many of the children who died at home had some engagement with the health system over the course of illness leading to death. Understanding how this engagement was interpreted, and why families did not access care again at the time of death is of great importance. A comparative analysis of findings across the 3 HDSS sites in South Africa will be included, in addition to a comparison of verbal autopsy findings from the HDSS sites to national statistics and local PPIP/ChIP data. A better understanding of the factors limiting access to care will better enable the design and modelling of health systems interventions to a "package of care" which is cost effective and practical within the specific constraints of the rural South African setting.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Jessica Price (PI)	
Anthony Harden (supervisor)	
Merlin Wilcox (co-supervisor)	

DDI DOCUMENT ID
AHPU.ZA011.CHLDDETHRA.2015

Sampling

Sampling Procedure

I would like to access the Verbal Autopsy data for all under-5 deaths in the Agincourt HDSS site dating back to 1992. I will produce descriptive statistics for the period, considering overall trends, in addition to analyzing the data according to place of death (home vs in-health facility). A comparative analysis will be conducted using data from the Africa Health Research institute and the Dikgale HDSS site. I will also present descriptive statistics relating to identified "barriers to care" as collected by the verbal autopsies. I would like to access sociodemographic explanatory variables from the household surveys and regular census updates of the community to allow for regressions to better compile a set of risk factors for under-5 mortality, and specifically for home deaths.

Following the initial secondary data analysis I would hope to conduct a series of interviews with the families of children who have died in the recent past, to better understand that barriers to accessing care). (This will be formally presented as a new project involving primary data collection). In addition I would like to analyse a sample of the "open narratives" recorded as part of the older verbal autopsies to provide insights into care pathways, points of delay, and barriers to access.

Finally I would like to design and model interventions (likely systems level interventions) to reduce under-5 mortality in the region, and to use priority setting methods (e.g. list tool) to determine a "package of care".

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
1992	2015	P1

Time Periods

Start	End	Cycle
1992	2015	N/A

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

Base_Table

Content	
Cases	2011
Variable(s)	36
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V1	Household_Anon	Household_Anon	discrete	character	
V2	ChildId_Anon	ChildId_Anon	discrete	character	
V3	ChildDoB	ChildDoB	discrete	character	
V4	ChildDoD	ChildDoD	discrete	character	
V5	ChildAge_at_Death	ChildAge_at_Death	discrete	numeric	
V6	ChildGender	ChildGender	discrete	character	
V7	ChildRefugee	ChildRefugee	discrete	character	
V8	DiedAt	DiedAt	discrete	character	
V9	DeathLocal	DeathLocal	discrete	character	
V10	Hospital	Hospital	discrete	character	
V11	DeathRegistration	DeathRegistration	discrete	character	
V12	MotherId_Anon	MotherId_Anon	discrete	character	
V13	MotherStatus	MotherStatus	discrete	character	
V14	MotherDoD	MotherDoD	discrete	character	
V15	Mother_Deceased	Mother_Deceased	discrete	character	
V16	Mother_Refugee_Status	Mother_Refugee_Status	discrete	character	
V17	Mother_Working	Mother_Working	discrete	character	
V18	MotherAge_at_ChildDeath	MotherAge_at_ChildDeath	discrete	numeric	
V19	MotherEducation	MotherEducation	discrete	character	
V20	MotherEducation_inYears	MotherEducation_inYears	discrete	numeric	
V21	MotherEducation_Date	MotherEducation_Date	discrete	character	
V22	Mother_MaritalStatus	Mother_MaritalStatus	discrete	character	
V23	FatherId_Anon	FatherId_Anon	discrete	character	
V24	FatherStatus	FatherStatus	discrete	character	
V25	FatherDoD	FatherDoD	discrete	numeric	
V26	Father_Deceased	Father_Deceased	discrete	character	
V27	Father_Refugee_Status	Father_Refugee_Status	discrete	numeric	

ID	Name	Label	Type	Format	Question
V28	Father_Working	Father_Working	discrete	character	
V29	FatherAge_at_ChildDeath	FatherAge_at_ChildDeath	discrete	numeric	
V30	Father_MaritalStatus	Father_MaritalStatus	discrete	character	
V31	HHHead_Id_Anon	HHHead_Id_Anon	discrete	character	
V32	HHHead_Gender	HHHead_Gender	discrete	character	
V33	HHHead_Working	HHHead_Working	discrete	character	
V34	SESabs_at_ChildDeath	SESabs_at_ChildDeath	discrete	numeric	
V35	Marital_Status	Marital_Status	discrete	character	
V36	Rnk	Rnk	discrete	numeric	

Labour_Status

Content	
Cases	65535
Variable(s)	4
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V37	Year	Year	discrete	numeric	
V38	Id_Anon	Id_Anon	discrete	character	
V39	Working	Working	discrete	character	
V40	Rnk	Rnk	discrete	numeric	

SES_Indices

Content	
Cases	13441
Variable(s)	3
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V41	Year	Year	discrete	numeric	
V42	Household_Anon	Household_Anon	discrete	character	
V43	SESabs	SESabs	discrete	numeric	

Base_Table

Content	
Cases	2011
Variable(s)	36
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V44	Household_Anon	Household_Anon	discrete	character	
V45	ChildId_Anon	ChildId_Anon	discrete	character	
V46	ChildDoB	ChildDoB	discrete	character	
V47	ChildDoD	ChildDoD	discrete	character	
V48	ChildAge_at_Death	ChildAge_at_Death	discrete	numeric	
V49	ChildGender	ChildGender	discrete	character	
V50	ChildRefugee	ChildRefugee	discrete	character	
V51	DiedAt	DiedAt	discrete	character	
V52	DeathLocal	DeathLocal	discrete	character	
V53	Hospital	Hospital	discrete	character	
V54	DeathRegistration	DeathRegistration	discrete	character	
V55	MotherId_Anon	MotherId_Anon	discrete	character	
V56	MotherStatus	MotherStatus	discrete	character	
V57	MotherDoD	MotherDoD	discrete	character	
V58	Mother_Deceased	Mother_Deceased	discrete	character	
V59	Mother_Refugee_Status	Mother_Refugee_Status	discrete	character	
V60	Mother_Working	Mother_Working	discrete	character	
V61	MotherAge_at_ChildDeath	MotherAge_at_ChildDeath	discrete	numeric	
V62	MotherEducation	MotherEducation	discrete	character	
V63	MotherEducation_inYears	MotherEducation_inYears	discrete	numeric	
V64	MotherEducation_Date	MotherEducation_Date	discrete	character	
V65	Mother_MaritalStatus	Mother_MaritalStatus	discrete	character	
V66	FatherId_Anon	FatherId_Anon	discrete	character	
V67	FatherStatus	FatherStatus	discrete	character	
V68	FatherDoD	FatherDoD	discrete	numeric	
V69	Father_Deceased	Father_Deceased	discrete	character	
V70	Father_Refugee_Status	Father_Refugee_Status	discrete	numeric	

ID	Name	Label	Type	Format	Question
V71	Father_Working	Father_Working	discrete	character	
V72	FatherAge_at_ChildDeath	FatherAge_at_ChildDeath	discrete	numeric	
V73	Father_MaritalStatus	Father_MaritalStatus	discrete	character	
V74	HHHead_Id_Anon	HHHead_Id_Anon	discrete	character	
V75	HHHead_Gender	HHHead_Gender	discrete	character	
V76	HHHead_Working	HHHead_Working	discrete	character	
V77	SESabs_at_ChildDeath	SESabs_at_ChildDeath	discrete	numeric	
V78	Marital_Status	Marital_Status	discrete	character	
V79	Rnk	Rnk	discrete	numeric	

Household_Anon (Household_Anon)
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Overview	

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Width: 5

Valid cases: 2011
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ChildId_Anon (ChildId_Anon)
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Format: character
Width: 5

Valid cases: 2011
Invalid: 0

ChildDoB (ChildDoB)
File: Base_Table

Overview	

Type: Discrete
Format: character
Width: 10

Valid cases: 2011
Invalid: 0

ChildDoD (ChildDoD)
File: Base_Table

Overview	

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Format: character
Width: 10

Valid cases: 2011
Invalid: 0

ChildAge_at_Death (ChildAge_at_Death)
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Decimals: 0
Range: 0-5

Valid cases: 2011
Invalid: 0

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Width: 1

Valid cases: 2011
Invalid: 0

ChildRefugee (ChildRefugee)
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Overview	

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Format: character
Width: 1

Valid cases: 2011
Invalid: 0

DiedAt (DiedAt)
File: Base_Table

Overview	

Type: Discrete
Format: character
Width: 1

Valid cases: 2011
Invalid: 0

DeathLocal (DeathLocal)
File: Base_Table

Overview	

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Format: character
Width: 1

Valid cases: 2011
Invalid: 0

Hospital (Hospital)
File: Base_Table

Overview	

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Format: character
Width: 2

Valid cases: 2011
Invalid: 0

DeathRegistration (DeathRegistration)
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Overview	

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Format: character
Width: 1

Valid cases: 2011
Invalid: 0

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Valid cases: 2004
Invalid: 0

MotherStatus (MotherStatus)
File: Base_Table

Overview	

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Format: character
Width: 1

Valid cases: 2011
Invalid: 0

MotherDoD (MotherDoD)
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Overview	

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Width: 10

Valid cases: 296
Invalid: 0

Mother_Deceased (Mother_Deceased)
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Width: 3

Valid cases: 2011
Invalid: 0

Mother_Refugee_Status (Mother_Refugee_Status)
File: Base_Table

Overview	

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Format: character
Width: 1

Valid cases: 2004
Invalid: 0

Mother_Working (Mother_Working)
File: Base_Table

Overview	

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Format: character
Width: 1

Valid cases: 404
Invalid: 0

MotherAge_at_ChildDeath (MotherAge_at_ChildDeath)
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Format: numeric
Decimals: 0
Range: 5-52

Valid cases: 2004
Invalid: 7

MotherEducation (MotherEducation)
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Valid cases: 1997
Invalid: 0

MotherEducation_inYears (MotherEducation_inYears)
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Format: numeric
Decimals: 0
Range: -1-15

Valid cases: 1997
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MotherEducation_Date (MotherEducation_Date)
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Width: 10

Valid cases: 1997
Invalid: 0

Mother_MaritalStatus (Mother_MaritalStatus)
File: Base_Table

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Format: character
Width: 1

Valid cases: 552
Invalid: 0

FatherId_Anon (FatherId_Anon)
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Overview	

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Format: character
Width: 5

Valid cases: 670
Invalid: 0

FatherStatus (FatherStatus)
File: Base_Table

Overview	

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Format: character
Width: 1

Valid cases: 551
Invalid: 0

FatherDoD (FatherDoD)
File: Base_Table

Overview	

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Format: numeric
Decimals: 0

Valid cases: 0
Invalid: 2011

Father_Deceased (Father_Deceased)
File: Base_Table

Overview	

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Format: character
Width: 3

Valid cases: 2011
Invalid: 0

Father_Refugee_Status (Father_Refugee_Status)
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Overview	

Type: Discrete
Format: numeric
Decimals: 0

Valid cases: 0
Invalid: 2011

Father_Working (Father_Working)
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Overview	

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Decimals: 0

Valid cases: 0
Invalid: 2011

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Valid cases: 447
Invalid: 0

HHHead_Id_Anon (HHHead_Id_Anon)
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Width: 5

Valid cases: 1957
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HHHead_Gender (HHHead_Gender)
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Format: character
Width: 1

Valid cases: 1957
Invalid: 0

HHHead_Working (HHHead_Working)
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Width: 1

Valid cases: 417
Invalid: 0

SESabs_at_ChildDeath (SESabs_at_ChildDeath)
File: Base_Table

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Type: Discrete
Format: numeric
Decimals: 2
Range: 1.07205580842252-3.7454153931319

Valid cases: 824
Invalid: 1187

Marital_Status (Marital_Status)
File: Base_Table

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Width: 1

Valid cases: 695
Invalid: 0

Rnk (Rnk)
File: Base_Table

Overview

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

Valid cases: 2011
Invalid: 0

Year (Year)
File: Labour_Status

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 2012-2016

Valid cases: 65535
Invalid: 0

Id_Anon (Id_Anon)
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Overview

Type: Discrete
Format: character
Width: 5

Valid cases: 65535
Invalid: 0

Working (Working)
File: Labour_Status

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 65535
Invalid: 0

Rnk (Rnk)
File: Labour_Status

Overview

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

Valid cases: 65535
Invalid: 0

Year (Year)
File: SES_Indices

Overview	

Type: Discrete
Format: numeric
Decimals: 0
Range: 2001-2016

Valid cases: 13441
Invalid: 0

Household_Anon (Household_Anon)
File: SES_Indices

Overview	

Type: Discrete
Format: character
Width: 5

Valid cases: 13441
Invalid: 0

SESabs (SESabs)
File: SES_Indices

Overview	

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Format: numeric
Decimals: 2
Range: 0.319801533603969-3.96129964419883

Valid cases: 13407
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ChildId_Anon (ChildId_Anon)
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Valid cases: 2011
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ChildDoB (ChildDoB)
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Overview	

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Format: character
Width: 10

Valid cases: 2011
Invalid: 0

ChildDoD (ChildDoD)
File: Base_Table

Overview	

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Valid cases: 2011
Invalid: 0

ChildAge_at_Death (ChildAge_at_Death)
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Overview	

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Format: numeric
Decimals: 0
Range: 0-5

Valid cases: 2011
Invalid: 0

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Format: character
Width: 1

Valid cases: 2011
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ChildRefugee (ChildRefugee)
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Overview	

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Valid cases: 2011
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Overview	

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Width: 1

Valid cases: 2011
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Overview	

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Valid cases: 2011
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Width: 2

Valid cases: 2011
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Valid cases: 2011
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Valid cases: 2004
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MotherStatus (MotherStatus)
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Valid cases: 2011
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MotherDoD (MotherDoD)
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Mother_Deceased (Mother_Deceased)
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Overview	

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Valid cases: 2011
Invalid: 0

Mother_Refugee_Status (Mother_Refugee_Status)
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Overview	

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Valid cases: 2004
Invalid: 0

Mother_Working (Mother_Working)
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Overview	

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Width: 1

Valid cases: 404
Invalid: 0

MotherAge_at_ChildDeath (MotherAge_at_ChildDeath)
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Overview	

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Format: numeric
Decimals: 0
Range: 5-52

Valid cases: 2004
Invalid: 7

MotherEducation (MotherEducation)
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Valid cases: 1997
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MotherEducation_inYears (MotherEducation_inYears)
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Range: -1-15

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MotherEducation_Date (MotherEducation_Date)
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Valid cases: 1997
Invalid: 0

Mother_MaritalStatus (Mother_MaritalStatus)
File: Base_Table

Overview	

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Width: 1

Valid cases: 552
Invalid: 0

FatherId_Anon (FatherId_Anon)
File: Base_Table

Overview	

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Width: 5

Valid cases: 670
Invalid: 0

FatherStatus (FatherStatus)
File: Base_Table

Overview	

Type: Discrete
Format: character
Width: 1

Valid cases: 551
Invalid: 0

FatherDoD (FatherDoD)
File: Base_Table

Overview	
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Decimals: 0	

Father_Deceased (Father_Deceased)
File: Base_Table

Overview	
Type: Discrete	Valid cases: 2011
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Father_Refugee_Status (Father_Refugee_Status)
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Overview	
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Format: numeric	Invalid: 2011
Decimals: 0	

Father_Working (Father_Working)
File: Base_Table

Overview	
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FatherAge_at_ChildDeath (FatherAge_at_ChildDeath)
File: Base_Table

Overview	
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Decimals: 0	

Father_MaritalStatus (Father_MaritalStatus)
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HHHead_Id_Anon (HHHead_Id_Anon)
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Overview

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Valid cases: 1957
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HHHead_Gender (HHHead_Gender)
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Width: 1

Valid cases: 1957
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HHHead_Working (HHHead_Working)
File: Base_Table

Overview

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Format: character
Width: 1

Valid cases: 417
Invalid: 0

SESabs_at_ChildDeath (SESabs_at_ChildDeath)
File: Base_Table

Overview

Type: Discrete
Format: numeric
Decimals: 2
Range: 1.07205580842252-3.7454153931319

Valid cases: 824
Invalid: 1187

Marital_Status (Marital_Status)
File: Base_Table

Overview

Type: Discrete
Format: character
Width: 1

Valid cases: 695
Invalid: 0

Rnk (Rnk)
File: Base_Table

Overview

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

Valid cases: 2011
Invalid: 0

Documentation

Questionnaires

Data Request

Title	Data Request
Author(s)	Jesica Price
Date	30/04/2018
Country	South Africa
Language	English
Filename	JessicaAgincourt_Data_Request_Form_v13.doc