

South Africa - DREAMS baseline study in females aged 15-24 years in rural KwaZulu Natal, South Africa, 2006-2015

Dr Kobus Herbst - AHRI

Professor Deenan Pillay - UCL; AHRI

Ms Kathy Baisley - LSHTM; AHRI

Professor Till Barnighausen - University of Heidelberg; AHRI

Mr Sphephelo Dlamini - AHRI

D

Report generated on: February 18, 2019

Visit our data catalog at: <http://indepth-ishare.org/index.php>

Overview

Identification

ID NUMBER

AHRI.DREAMS.DREAMS.AGYW.Baseline.2018.v1

Version

VERSION DESCRIPTION

v1.0.0

Overview

ABSTRACT

The datasets provided here were used for the publication: Chimbindi N, Mthiyane N, Birdthistle I, Floyd S, McGrath N, et al. Persistently high incidence of HIV and poor service uptake in adolescent girls and young women in rural KwaZulu-Natal, South Africa prior to DREAMS. PLOS ONE 2018 (add full citation when available). In this paper, we describe HIV incidence and uptake of HIV and sexual, reproductive health (SRH) by adolescent girls and young women (AGYW) in KwaZulu-Natal, prior to the roll-out of the DREAMS. The DREAMS Partnership is an ambitious programme aimed at reduction HIV infection among young women through a combination HIV prevention package to target biological, behavioural, social and structural sources of risk. The study uses existing longitudinal data collected by Africa Health Research Institute (AHRI) (formally the Africa Centre for Health and Population studies), as part of their demographic surveillance system (DSS). The study uses annual anonymised HIV serosurvey data from 2006-2015, and results of the annual individual-level surveys in 2011 and 2015. The aim of the study was to describe trends in HIV incidence, and the uptake of SRH services (specifically, HIV testing and contraception) in a population-based sample of AGYW prior to DREAMS roll out in 2015. We explore factors associated with SRH service uptake to inform implementation of DREAMS.

KIND OF DATA

Survey data

UNITS OF ANALYSIS

For the individual survey data, each record is for a single participant in each year (2011 and 2015). For the HIV incidence data, there are multiple records for each participant in the serosurvey, representing episodes of residence within the DSS area.

TOPICS

Topic	Vocabulary	URI
HIV infection; adolescents; reproductive health; contraception	Africa Health Research Institute	www.ahri.org

KEYWORDS

HIV; Sexual health; adolescents girls and young women; multi-level HIV prevention

Coverage

GEOGRAPHIC COVERAGE

uMkhanyakude district in northern KwaZulu-Natal.

UNIVERSE

Young girls and adolescent women aged 15-24 years who are resident members of households in the AHRI DSS

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Dr Kobus Herbst	AHRI
Professor Deenan Pillay	UCL; AHRI
Ms Kathy Baisley	LSHTM; AHRI
Professor Till Barnighausen	University of Heidelberg; AHRI
Mr Sphephelo Dlamini	AHRI
Dr Guy Harling	UCL; AHRI
Dr Olivier Koole	LSHTM; AHRI
Dr Theresa Smit	AHRI
Dr Maryam Shahmanesh	UCL; AHRI
Dr Isolde Birdthistle	LSHTM
Dr Sian Floyd	LSHTM
Professor Janet Seeley	LSHTM; AHRI

OTHER PRODUCER(S)

Name	Affiliation	Role
Africa Health Research Institute		

FUNDING

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding
SAPRIN	SAPRIN	
Bill and Melinda Gates Foundation	BMGF	

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Dickman Gareta	AHRI	Head of Research Data Management
Jaco Dreyer	AHRI	Data management, data cleaning
Nondumiso Mthiyane	AHRI	Statistical analysis, data cleaning
Natsayi Chimbindi	AHRI	Oversee data and analysis plan

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Africa Health Research Institute	AHRI		

DDI DOCUMENT ID

DDI.AHRI.DREAMS.DREAMS.AGYW.Baseline.2018.v1

Sampling

Sampling Procedure

N/A. All individuals aged 15 years and older who are resident members of households in the DSS area are eligible to participate in the annual individual questionnaire survey and HIV serosurvey.

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2006-01-01	2015-12-31	N/A

Data Processing

Data Editing

The HIV incidence dataset contains derived variables summarising the dates of the first and last HIV negative test, and first and last HIV positive test, as applicable, for all individuals who have participated in the serosurvey.

Data Appraisal

No content available

File Description

Variable List

DREAMS_AGYW_baseline_SHARE

Content

Cases 6018

Variable(s) 27

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V1	newid	ID number	contin	numeric	
V2	year	Year	discrete	numeric	
V3	mstatus	Marital status	discrete	numeric	
V4	ever_con	Ever used contraception	discrete	numeric	
V5	modern_con	Currently using modern contraception	discrete	numeric	
V6	know_HIV12m	Reports having HIV test in past 12m	discrete	numeric	
V7	hiv_status	HIV status from serosurvey	discrete	numeric	
V8	plife_cat	Lifetime partners	discrete	numeric	
V9	sex12m	Had sex in past 12m	discrete	numeric	
V10	pm12m_yn	More than 1 partner in past 12m	discrete	numeric	
V11	mrp_5ydif	Age difference with most recent partner 5+ years	discrete	numeric	
V12	mrp_5yolder	Most recent partner 5+ years older	discrete	numeric	
V13	preg_ever	Ever been pregnant	discrete	numeric	
V14	mrp_cond	Used condom at last sex	discrete	numeric	
V15	no_condom	Any condomless sex in past 12m	discrete	numeric	
V16	casual_12m	Any casual partner in past 12m	discrete	numeric	
V17	hear_art	Has heard about ART	discrete	numeric	
V18	where_art	Knows where to get ART	discrete	numeric	
V19	clinic_yn	Visited clinic in last 6m	discrete	numeric	
V20	employed	Employed	discrete	numeric	
V21	agecat_current	Age group	discrete	numeric	
V22	sescat3	3 quantiles of ses_score	discrete	numeric	
V23	educ_INOUT	Education	discrete	numeric	
V24	mig_cat	Migration episodes	discrete	numeric	
V25	educ3	Education group	discrete	numeric	
V26	area	Geographic area	discrete	numeric	
V27	job	Employment	discrete	numeric	

DREAMS_HIV_incidence_nonresident_females_SHARE

Content

Cases 49849

Variable(s) 13

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V28	newid	ID number	contin	numeric	
V29	enter	Episode start date	discrete	character	
V30	exit	Episode end date	discrete	character	
V31	sex	Sex	discrete	numeric	
V32	dateofbirth	Date of birth	discrete	character	
V33	dt_first_neg	Date first HIV negative test in serosurvey	discrete	character	
V34	dt_last_neg	Date last HIV negative test in serosurvey	discrete	character	
V35	dt_first_pos	Date first HIV positive test in serosurvey	discrete	character	
V36	dt_last_pos	Date last HIV positive test in serosurvey	discrete	character	
V37	hivstatus	HIV status in interval	discrete	numeric	
V38	age	Age	discrete	numeric	
V39	year	Calendar year	discrete	numeric	
V40	agegp	Age group	discrete	numeric	

DREAMS_HIV_incidence_resident_females_SHARE

Content

Cases 46622

Variable(s) 13

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V41	newid	ID number	contin	numeric	
V42	enter	Episode start date	discrete	character	
V43	exit	Episode end date	discrete	character	
V44	sex	Sex	discrete	numeric	
V45	dateofbirth	Date of birth	discrete	character	
V46	dt_first_neg	Date first HIV negative test in serosurvey	discrete	character	
V47	dt_last_neg	Date last HIV negative test in serosurvey	discrete	character	
V48	dt_first_pos	Date first HIV positive test in serosurvey	discrete	character	
V49	dt_last_pos	Date last HIV positive test in serosurvey	discrete	character	
V50	hivstatus	HIV status in interval	discrete	numeric	
V51	year	Calendar year	discrete	numeric	
V52	age	Age	discrete	numeric	
V53	agegp	Age group	discrete	numeric	

ID number (newid)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Continuous	Valid cases: 6018
Format: numeric	Invalid: 0
Width: 9	Minimum: 1001
Decimals: 0	Maximum: 6440
Range: 1001-6440	Mean: 3706.2
	Standard deviation: 1567.4

Year (year)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 6018
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 2011-2015	

Marital status (mstatus)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5859
Format: numeric	Invalid: 159
Width: 22	
Decimals: 0	
Range: 1-2	

Ever used contraception (ever_con)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5827
Format: numeric	Invalid: 191
Width: 9	
Decimals: 0	
Range: 0-1	

Currently using modern contraception (modern_con)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5827
Format: numeric	Invalid: 191
Width: 9	
Decimals: 0	
Range: 0-1	

Reports having HIV test in past 12m (know_HIV12m)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5854
Format: numeric	Invalid: 164
Width: 9	
Decimals: 0	
Range: 0-1	

HIV status from serosurvey (hiv_status)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 4467
Format: numeric	Invalid: 1551
Width: 35	
Decimals: 0	
Range: 0-1	

Lifetime partners (plife_cat)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 4777
Format: numeric	Invalid: 1241
Width: 9	
Decimals: 0	
Range: 0-2	

Had sex in past 12m (sex12m)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 4791
Format: numeric	Invalid: 1227
Width: 9	
Decimals: 0	
Range: 0-1	

More than 1 partner in past 12m (pm12m_yn)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 4791
Format: numeric	Invalid: 1227
Width: 9	
Decimals: 0	
Range: 0-1	

Age difference with most recent partner 5+ years (mrp_5ydif)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 2159
Format: numeric	Invalid: 3859
Width: 9	
Decimals: 0	
Range: 0-1	

Most recent partner 5+ years older (mrp_5yolder)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 2159
Format: numeric	Invalid: 3859
Width: 9	
Decimals: 0	
Range: 0-1	

Ever been pregnant (preg_ever)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5848
Format: numeric	Invalid: 170
Width: 9	
Decimals: 0	
Range: 0-1	

Used condom at last sex (mrp_cond)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 2250
Format: numeric	Invalid: 3768
Width: 9	
Decimals: 0	
Range: 0-1	

Any condomless sex in past 12m (no_condom)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 2250
Format: numeric	Invalid: 3768
Width: 9	
Decimals: 0	
Range: 0-1	

Any casual partner in past 12m (casual_12m)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 2255
Format: numeric	Invalid: 3763
Width: 9	
Decimals: 0	
Range: 0-1	

Has heard about ART (hear_art)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5806
Format: numeric	Invalid: 212
Width: 9	
Decimals: 0	
Range: 0-1	

Knows where to get ART (where_art)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5788
Format: numeric	Invalid: 230
Width: 9	
Decimals: 0	
Range: 0-1	

Visited clinic in last 6m (clinic_yn)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5849
Format: numeric	Invalid: 169
Width: 9	
Decimals: 0	
Range: 0-1	

Employed (employed)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 3130
Format: numeric	Invalid: 2888
Width: 12	
Decimals: 0	
Range: 0-2	

Age group (agecat_current)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 6018
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 1-2	

3 quantiles of ses_score (sescat3)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5306
Format: numeric	Invalid: 712
Width: 8	
Decimals: 0	
Range: 1-3	

Education (educ_INOUT)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5348
Format: numeric	Invalid: 670
Width: 37	
Decimals: 0	
Range: 1-6	

Migration episodes (mig_cat)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 6018
Format: numeric	Invalid: 0
Width: 11	
Decimals: 0	
Range: 0-2	

Education group (educ3)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete	Valid cases: 5348
Format: numeric	Invalid: 670
Width: 25	
Decimals: 0	
Range: 1-3	

Geographic area (area)

File: DREAMS_AGYW_baseline_SHARE

Overview

Type: Discrete
Format: numeric
Width: 10
Decimals: 0
Range: 1-3

Valid cases: 6018
Invalid: 0

Employment (job)

File: DREAMS_AGYW_baseline_SHARE

Overview

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

Valid cases: 3130
Invalid: 2888

ID number (newid)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Continuous	Valid cases: 49849
Format: numeric	Invalid: 0
Width: 9	Minimum: 1001
Decimals: 0	Maximum: 7895
Range: 1001-7895	Mean: 4337.1
	Standard deviation: 1937.6

Episode start date (enter)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete	Valid cases: 49849
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Episode end date (exit)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete	Valid cases: 49849
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Sex (sex)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete	Valid cases: 49849
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 1-2	

Date of birth (dateofbirth)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete	Valid cases: 49849
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Date first HIV negative test in serosurvey (dt_first_neg)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Date first HIV negative test in serosurvey (dt_first_neg)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Type: Discrete
Format: character
Width: 11

Valid cases: 49849
Minimum: NaN
Maximum: NaN

Date last HIV negative test in serosurvey (dt_last_neg)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: character
Width: 11

Valid cases: 49849
Minimum: NaN
Maximum: NaN

Date first HIV positive test in serosurvey (dt_first_pos)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: character
Width: 11

Valid cases: 14600
Minimum: NaN
Maximum: NaN

Date last HIV positive test in serosurvey (dt_last_pos)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: character
Width: 11

Valid cases: 14600
Minimum: NaN
Maximum: NaN

HIV status in interval (hivstatus)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: numeric
Width: 23
Decimals: 0
Range: 0-1

Valid cases: 49849
Invalid: 0

Age (age)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 15-24

Valid cases: 49849
Invalid: 0

Calendar year (year)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 2006-2015

Valid cases: 49849
Invalid: 0

Age group (agegp)

File: DREAMS_HIV_incidence_nonresident_females_SHARE

Overview

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

Valid cases: 49849
Invalid: 0

ID number (newid)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Continuous	Valid cases: 46622
Format: numeric	Invalid: 0
Width: 9	Minimum: 1001
Decimals: 0	Maximum: 7895
Range: 1001-7895	Mean: 4349.8
	Standard deviation: 1944.9

Episode start date (enter)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete	Valid cases: 46622
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Episode end date (exit)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete	Valid cases: 46622
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Sex (sex)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete	Valid cases: 46622
Format: numeric	Invalid: 0
Width: 9	
Decimals: 0	
Range: 1-2	

Date of birth (dateofbirth)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete	Valid cases: 46622
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Date first HIV negative test in serosurvey (dt_first_neg)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Date first HIV negative test in serosurvey (dt_first_neg)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Type: Discrete
 Format: character
 Width: 11

Valid cases: 46622
 Minimum: NaN
 Maximum: NaN

Date last HIV negative test in serosurvey (dt_last_neg)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 46622
 Minimum: NaN
 Maximum: NaN

Date first HIV positive test in serosurvey (dt_first_pos)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 13371
 Minimum: NaN
 Maximum: NaN

Date last HIV positive test in serosurvey (dt_last_pos)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 13371
 Minimum: NaN
 Maximum: NaN

HIV status in interval (hivstatus)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
 Format: numeric
 Width: 23
 Decimals: 0
 Range: 0-1

Valid cases: 46622
 Invalid: 0

Calendar year (year)
 File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 2006-2015

Valid cases: 46622
 Invalid: 0

Age (age)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

Type: Discrete
Format: numeric
Width: 9
Decimals: 0
Range: 15-24

Valid cases: 46622
Invalid: 0

Age group (agegp)

File: DREAMS_HIV_incidence_resident_females_SHARE

Overview

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

Valid cases: 46622
Invalid: 0

