Uganda - Iganga/Mayuge INDEPTH Core Dataset 2005-2016 (Release 2019)

Dr. Dan Kajungu - Makerere University Center for Health and Population Research
Report generated on: July 1, 2019

Visit our data catalog at: http://www.indepth-ishare.org/index.php
Overview

Identification

ID NUMBER
INDEPTH.UG011.CMD2016.v1

Version

VERSION DESCRIPTION
CMD2016.v1: Edited dataset for public distribution

PRODUCTION DATE
2019-06-23

Overview

ABSTRACT
Iganga/Mayuge DSS in Uganda, was established in August 2004. It is located in the eastern part of the country 115km from Kampala the capital city. According to results from end of round 13 which was conducted between may-August 2012, the DSS has a population of about 79,000 people, about 61% living in rural and 39% peri-urban areas. Data for update rounds is collected 2 times in a year. The Iganga/Mayuge DSS is using paper based protocol of data collection but is gradually changing to use of tablets.

The core demographic events covered are Migrations, Birth Death and Verbal Autopsy. Other modules collected are Pregnancy, Education and Socio-economic status.

Objectives

1. Capacity Building: To develop operational research capacity for Makerere University staff and graduate students

2. Monitoring and Evaluation: To provide a platform for high quality household survey data for operational field trials of health, agriculture, socio-economic, veterinary and technological interventions in rural and peri urban populations;

3. Services: To contribute to the development of the new sentinel Surveillance system by providing unique, essential, household level information individually tailored for policy, planning and research needs.

Priority Research Areas

Health, research by Masters & PhD students from Agriculture, technology/water, social science faculties is also conducted

KIND OF DATA
Event history data

UNITES OF ANALYSIS
Individual

Scope

NOTES
This study represents a portion of the total data associated with the complete Iganga/Mayuge surveillance as described in the study abstract.
It specifically only includes the events defining the resident exposure of individuals under surveillance as well as delivery events of resident women. Each type of event contains minimal attributes describing the event.

Attributes common to each event:

Event type,
Event Date,
Observation date
Migration
Origin & Destination
Delivery:
live born and still born counts

**TOPICS**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Vocabulary</th>
<th>URI</th>
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</table>

**KEYWORDS**

Migration, Mortality, Fertility

**Coverage**

**GEOGRAPHIC COVERAGE**
The Iganga/mayuge Hdss is located astride the two eastern districts of Iganga and Mayuge which is about 120 kilometres or two and half hour drive east from kampala, capital city of uganda along uganda-kenya high way.

**UNIVERSE**

Resident household members of households resident within the demographic surveillance area. Immigrants are defined by intention to become resident, but actual residence episodes of less than 90 days are censored. Outmigrants are defined by intention to become residents else where, but actual periods of non-residence less than 90 days are censored. children born to resident women are considered residents by default, irrespective of actual place of birth.

The dataset contains the events of all individuals ever resident during the study period (Jan 2005 - 31 Dec 2016)
Producers and Sponsors

PRIMARY INVESTIGATOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Dan Kajungu</td>
<td>Makerere University Center for Health and Population Research</td>
</tr>
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OTHER PRODUCER(S)

<table>
<thead>
<tr>
<th>Name</th>
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<th>Role</th>
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<tbody>
<tr>
<td>Edward Galiwango</td>
<td>Makerere University Center for Health and Population Research</td>
<td>Site Coordinator</td>
</tr>
<tr>
<td>Judith Nanyonga</td>
<td>Makerere University Center for Health and Population Research</td>
<td>Field Manager</td>
</tr>
<tr>
<td>Davis Natukwatsa</td>
<td>Makerere University Center for Health and Population Research</td>
<td>Data Manager</td>
</tr>
<tr>
<td>Tryphena Nareeba</td>
<td>Makerere University Center for Health and Population Research</td>
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FUNDING

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<td>Sida</td>
<td>current funder</td>
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OTHER ACKNOWLEDGEMENTS

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<td>Iganga and Mayuge districts &amp; population</td>
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Metadata Production

METADATA PRODUCED BY

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<td>iSHARE2 Technical Team</td>
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<td>agency</td>
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<tr>
<td>Davis Natukwatsa</td>
<td>DN</td>
<td>Makerere University Center for Health and Population Research</td>
<td>DDI author</td>
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</table>

DATE OF METADATA PRODUCTION

2019-06-23

DDI DOCUMENT VERSION


DDI DOCUMENT ID

DDI.INDEPTH.UG011.CMD2016.v1
Sampling

Sampling Procedure

The dataset is not based on a sample but contains information from the complete demographic surveillance area. The number of households in the HDSS have been varying since 2005 because of immigrants or entrants who establish new home steads in the HDSS.

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Households</th>
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<td>11,742</td>
</tr>
<tr>
<td>2006</td>
<td>11,904</td>
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<td>2007</td>
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<tr>
<td>2013</td>
<td>16,204</td>
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<tr>
<td>2014</td>
<td>16,224</td>
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<tr>
<td>2015</td>
<td>17,767</td>
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<td>2016</td>
<td>18,248</td>
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Deviations from Sample Design

None

Response Rate

On average since the baseline round, the response rate in the peri-urban setting has been 97%. 2.5% being not found at home and 0.5% being refusals. In the rural setting, the response rate has been 99% with 1% being not found at homes. The refusal rate in the rural setting is almost negligible. In both cases, follow ups are always made to reduce this non-response rate as much as possible.

Weighting

Not applicable
Questionnaires

Overview

we have the following list of questionnaires used

house hold registration form
used to update the residency status of current residents.

Individual form
records basic information of individuals new to the dss

individual information form
records extensive individual information about individuals including education, marital status of individual

death
records information about deaths

pregnancy registration form
registers pregnancies

Pregnancy outcome
used to get information about birth

in and out migration forms

exit and entry forms

social economic form

Immunisation form

Injury form for collecting information on injuries

These questionnaires were developed in English and each form is translated in the local language, for each question in English there is a corresponding local language question.
Data Collection

Data Collection Dates

<table>
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<tr>
<th>Start</th>
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<th>Cycle</th>
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<tr>
<td>2005-01-01</td>
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Time Periods

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<td>Baseline</td>
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<tr>
<td>2006-01-16</td>
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<td>Round 1</td>
</tr>
<tr>
<td>2006-09-11</td>
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<td>Round 2</td>
</tr>
<tr>
<td>2007-02-12</td>
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<td>Round 3</td>
</tr>
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<td>2008-04-07</td>
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<td>Round 4</td>
</tr>
<tr>
<td>2008-10-06</td>
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<td>Round 5</td>
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<tr>
<td>2009-04-01</td>
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<td>Round 6</td>
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<td>Round 8</td>
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<td>2010-08-05</td>
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<td>Round 9</td>
</tr>
<tr>
<td>2011-02-07</td>
<td></td>
<td>Round 10</td>
</tr>
<tr>
<td>2011-08-01</td>
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<td>Round 11</td>
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<td>2016-05-10</td>
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<td>Round 17</td>
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Data Collection Mode

Proxy Respondent [proxy]

Data Collection Notes

Enumerators were trained immediately prior to the baseline data collection and then refresher trainings were conducted for one week between each surveillance round.

New field workers received a standard 6 week training course prior to appointment as data collectors. Data entry staff received field work training in addition to training in the data entry programs.

Questionnaires

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**Data Collectors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Abbreviation</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Iganga/Mayuge Hdss</td>
<td>UG011</td>
<td>Makerere university school of public health</td>
</tr>
</tbody>
</table>

**Supervision**

Field workers operated in teams of 5-6 supervised by a team leader. Team leaders conducted supervised visits and quality control visits and reviewed field workers data collection.
Data Processing

Data Editing

On data entry data consistency and plausibility were checked by 455 data validation rules at database level. If data validation failure was due to a data collection error, the questionnaire was referred back to the field for revisit and correction. If the error was due to data inconsistencies that could not be directly traced to a data collection error, the record was referred to the data quality team under the supervision of the senior database scientist. This could request further field level investigation by a team of trackers or could correct the inconsistency directly at database level.

No imputations were done on the resulting micro data set, except for:

a. If an out-migration (OMG) event is followed by a homestead entry event (ENT) and the gap between OMG event and ENT event is greater than 180 days, the ENT event was changed to an in-migration event (IMG).

b. If an out-migration (OMG) event is followed by a homestead entry event (ENT) and the gap between OMG event and ENT event is less than 180 days, the OMG event was changed to an homestead exit event (EXT) and the ENT event date changed to the day following the original OMG event.

c. If a homestead exit event (EXT) is followed by an in-migration event (IMG) and the gap between the EXT event and the IMG event is greater than 180 days, the EXT event was changed to an out-migration event (OMG).

d. If a homestead exit event (EXT) is followed by an in-migration event (IMG) and the gap between the EXT event and the IMG event is less than 180 days, the IMG event was changed to an homestead entry event (ENT) with a date equal to the day following the EXT event.

e. If the last recorded event for an individual is homestead exit (EXT) and this event is more than 180 days prior to the end of the surveillance period, then the EXT event is changed to an out-migration event (OMG).

In the case of the village that was added (enumerated) in 2006, some individuals may have outmigrated from the original surveillance area and settled in the new village prior to the first enumeration. Where the records of such individuals have been linked, and individual can legitimately have an outmigration event (OMG) followed by an enumeration event (ENU). In a few cases a homestead exit event (EXT) was followed by an enumeration event in these cases. In these instances the EXT events were changed to an out-migration event (OMG).
Data Appraisal

**Estimates of Sampling Error**

Not applicable

**Other forms of Data Appraisal**

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<td>22:49</td>
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<td>22:49</td>
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File Description
Variable List
UG011.CMD2016.v1

Content: Event History Micro Data Set
Cases: 393457
Variable(s): 14
Structure: Type: Keys: ()
Version: CMD2016.v1
Producer: Iganga/Mayuge HDSS

Variables

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RecNr (RecNr)
File: UG011.CMD2016.v1

Overview
Type: Continuous
Format: numeric
Decimals: 0
Range: 1-330062
Valid cases: 393457
Invalid: 0
Minimum: 1
Maximum: 393457
Mean: 196729
Standard deviation: 113581.4

Description
A sequential number uniquely identifying each record in the data file.

CountryId (CountryId)
File: UG011.CMD2016.v1

Overview
Type: Discrete
Format: numeric
Decimals: 0
Range: 800-800
Valid cases: 393457
Invalid: 0

Description
ISO 3166-1 numeric code of the country in which surveillance site is situated.

CentreId (CentreId)
File: UG011.CMD2016.v1

Overview
Type: Discrete
Format: character
Width: 5
Valid cases: 393457
Invalid: 0

Description
An identifier issued by INDEPTH to each member centre of the format CCCSS, where CCC is a sequential centre identifier and ss is a sequential identifier of the site within the centre in the case of multiple site centres.

IndividualId (IndividualId)
File: UG011.CMD2016.v1

Overview
Type: Continuous
Format: numeric
Decimals: 0
Range: 1-124526
Valid cases: 393457
Invalid: 0
Minimum: 1
Maximum: 157682
Mean: 78815.9
Standard deviation: 45516.7

Description
A number uniquely identifying all the records belonging to a specific individual in the data file. This number is not the same as the identifier used by contributing centre to identify the individual.

Sex (Sex)
File: UG011.CMD2016.v1
Sex (Sex)
File: UG011.CMD2016.v1

Overview
Type: Discrete  
Format: numeric  
Decimals: 0  
Range: 0-2  
Valid cases: 393457  
Invalid: 0

Description
sex of individual

DoB (DoB)
File: UG011.CMD2016.v1

Overview
Type: Discrete  
Format: character  
Valid cases: 393457  
Minimum: NaN  
Maximum: NaN

Description
The date of birth of the individual. format: YYYY/MM/DD

EventCount (EventCount)
File: UG011.CMD2016.v1

Overview
Type: Discrete  
Format: numeric  
Decimals: 0  
Range: 2-13  
Valid cases: 393457  
Invalid: 0

Description
The total number of events associated with this individual in this data set

EventNr (EventNr)
File: UG011.CMD2016.v1

Overview
Type: Discrete  
Format: numeric  
Decimals: 0  
Range: 1-13  
Valid cases: 393457  
Invalid: 0

Description
A number increasing from 1 to EventCount for each event record in order of event occurrence

EventCode (EventCode)
File: UG011.CMD2016.v1

Overview
Type: Discrete  
Format: character  
Width: 3  
Valid cases: 393457  
Invalid: 0

Description
**EventCode (EventCode)**  
*File: UG011.CMD2016.v1*  
A code identifying the type of event that has occurred.

**EventDate (EventDate)**  
*File: UG011.CMD2016.v1*  
**Overview**  
Type: Discrete  
Format: character  
Valid cases: 393457  
Minimum: NaN  
Maximum: NaN  
**Description**  
The date on which the event occurred. Format: YYYY/MM/DD

**ObservationDate (ObservationDate)**  
*File: UG011.CMD2016.v1*  
**Overview**  
Type: Discrete  
Format: character  
Valid cases: 319627  
Minimum: NaN  
Maximum: NaN  
**Description**  
The date on which the event was observed (recorded), also known as surveillance visit date. Format: YYYY/MM/DD

**LocationId (LocationId)**  
*File: UG011.CMD2016.v1*  
**Overview**  
Type: Continuous  
Format: numeric  
Decimals: 0  
Range: 1-14022  
Valid cases: 234635  
Invalid: 158822  
Minimum: 1  
Maximum: 16621  
Mean: 8367  
Standard deviation: 4795.6  
**Description**  
Unique identifier associated with a residential unit within the site and is the location where the individual was or became resident when the event occurred. This identifier is not to be the same as the identifier used internally by the contributing centre.

**MotherId (MotherId)**  
*File: UG011.CMD2016.v1*  
**Overview**  
Type: Continuous  
Format: numeric  
Decimals: 0  
Range: 10-124526  
Valid cases: 39405  
Invalid: 354052  
Minimum: 2  
Maximum: 157667  
Mean: 79601.8  
Standard deviation: 45115  
**Description**  
The individual id of the mother. Only provided for BTH events.
DeliveryId (DeliveryId)
File: UG011.CMD2016.v1

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<td>Mean: 17634.9</td>
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<td>Standard deviation: 8703.1</td>
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Description
The RecNr of the delivery event associated with this birth