

BURKINA FASO - Nanoro HDSS INDEPTH Core Dataset 2009-2013 (Released 2016)

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

Overview

Identification

ID NUMBER

INDEPTH.BF021.CMD2013.v1

Version

VERSION DESCRIPTION

CMD2013.v1: Edited dataset for public distribution

PRODUCTION DATE

2016-05-22

Overview

ABSTRACT

CLINICAL RESEARCH UNIT OF NANORO, NANORO HDSS PROFILE The Nanoro Health and Demographic Surveillance System (HDSS) was established in 2009 by the Clinical Research Unit of Nanoro - Institut de Recherche en Sciences de la Sant (IRSS-CRUN) with the aim of providing a core framework for clinical trials and also to support the Burkina Faso health authorities in generating epidemiological data that can contribute to the setup and assessment of health interventions. This is achieved by providing an excellent platform for generating epidemiological data fully compliant with international standards. The site activities are currently oriented towards the research (drugs and vaccines) on diseases of public health importance with a specific focus on malaria.

Nanoro is a rural area located in the Centre-West of the country, at approximately 85 Km from the capital city, Ouagadougou. The HDSS area lies between longitudes 192537 and 23146 W and latitudes 1257955 and 1272863 N and covers 24 villages which represents a surface of 594.3 Km² (~36% of the Nanoro Health District area). In this area, health care is provided by seven peripheral health posts and one referral hospital. Nanoro HDSS is in the Sudano-Sahelian climate which has two main seasons: a rainy season from June to October (average rainfall of 450-700 mm/year, average temperature >30C) followed by a dry season from November to May (the temperature may vary from 17C in December to a maximum of 43C in April).

The population under surveillance is about 63 395 residents (in 2011) with a majority of illiterate people. They are subsistence farmers, cattle-keepers and housewives. The main ethnic groups are Mossi, Gourounsi and Fulani.

KIND OF DATA

Event history data

UNITS OF ANALYSIS

Individual

TOPICS

| Topic | Vocabulary | URI |
|----------------------|------------|---|
| Demography [N01.224] | MeSH | http://www.ncbi.nlm.nih.gov/mesh |

KEYWORDS

Fertility, Mortality, Migration, Population

Coverage

GEOGRAPHIC COVERAGE

Nanoro is a rural area located in the Centre-West of the country, at approximately 85 Km from the capital city, Ouagadougou. The HDSS area lies between longitudes 192537 and 23146 W and latitudes 1257955 and 1272863 N and covers 24 villages which represents a surface of 594.3 Km² (~36% of the Nanoro Health District area). In this area, health care is provided by seven peripheral health posts and one referral hospital.

UNIVERSE

All individual resident in the HDSS

Producers and Sponsors**PRIMARY INVESTIGATOR(S)**

| Name | Affiliation |
|-------------------|--------------------|
| TINTO Halidou | IRSS- Centre Muraz |
| DERRA Karim | CRUN |
| VALEA Innocent | IRSS- Centre Muraz |
| TAHITA Marc | CRUN |
| ROUAMBA Eli | CRUN |
| OUEDRAOGO Sayouba | CRUN |

OTHER PRODUCER(S)

| Name | Affiliation | Role |
|----------------|-------------|---------------------------------|
| KAZIENGA Adama | | Data Manager upto December 2015 |
| HIEN S. Franck | CRUN | Data Manager from April 2016 |

FUNDING

| Name | Abbreviation | Role |
|--|-----------------|------|
| Malaria Clinical Trials Alliance | MCTA | |
| Malaria Vaccine Initiative | MVI | |
| European and Developing Clinical Trial Partnership | EDCTP | |
| European Union | FP(7) | |
| MALARIA IN PREGNANCY CONSORTIUM (GATES FONDATION) | MiP Consortium | |
| National Institute of Health | NIH | |
| WHO/TROPICAL DISEASE RESEARCH | WHO/TDR | |
| BELGIUM CORPORATION (FRAMEWORK AGREEMENT 3 WITH ITM ANTWERP,BELGIUM) | BC | |
| PHARMACEUTICAL COMPANIES (GSK, SANOFI AVENTIS, SIGMA TAU, NOVARTIS) | | |
| INDEPTH NETWORK | INDEPTH NETWORK | |

OTHER ACKNOWLEDGEMENTS

| Name | Affiliation | Role |
|--|---------------|------|
| Field Team | CRUN | |
| Data Clerks | CRUN | |
| Nanoro Community and their Chiefs | | |
| Nanoro Health District and Adminatrative Authorities | | |
| Institute of Tropical Medecine, Belgium | ITM - Antwerp | |

Metadata Production**METADATA PRODUCED BY**

| Name | Abbreviation | Affiliation | Role |
|------|--------------|-------------|------|
|------|--------------|-------------|------|

| Name | Abbreviation | Affiliation | Role |
|------------------------|---------------------|--------------------|----------------------------|
| iSHARE2 Technical Team | iS2TT | INDEPTH Network | Documentation of the study |
| INDEPTH Network | int.indepth | INDEPTH Network | agency |
| Nanoro HDSS | NHDSS | IRSS | agency |
| Karim Derra | KD | CRUN-IRSS | DDI Author |

DATE OF METADATA PRODUCTION

2016-06-30

DDI DOCUMENT VERSION

CMD2013.v1: 2016-05-13

CMD2013.v2: 2016-06-30

DDI DOCUMENT ID

DDI.INDEPTH.BF021.CMD2013.V2

Sampling

Sampling Procedure

No sampling is done

Deviations from Sample Design

Not Applicable

Response Rate

No refusals

Weighting

Not Applicable

Questionnaires

Overview

The questionnaires are designed by the Demographer in collaboration with the other member of the HDSS team. It contains the household questionnaire, the compound questionnaire and all the events forms needed for the data capture concerning the events (marriage, pregnancy, birth, in/out-migration, death, verbal autopsy...) which must be registered during the round. After the validation of the questionnaires, the data management team makes the copy of each questionnaire for the field team. Then, they print the household register by cluster for the field team before starting the next round. The data are collected by FW and controlled by FS.

Data Collection

Data Collection Dates

| Start | End | Cycle |
|------------|------------|------------------|
| 2009-03-19 | 2013-12-31 | Release Coverage |

Time Periods

| Start | End | Cycle |
|------------|-----|-------|
| 2009-03-19 | | 0 |
| 2009-08-31 | | 1 |
| 2010-01-01 | | 2 |
| 2010-05-01 | | 3 |
| 2010-09-01 | | 4 |
| 2011-01-01 | | 5 |
| 2011-05-01 | | 6 |
| 2011-09-20 | | 7 |
| 2012-01-01 | | 8 |
| 2012-09-14 | | 9 |
| 2013-02-01 | | 10 |
| 2013-05-27 | | 11 |
| 2013-10-01 | | 12 |

Data Collection Mode

Proxy Respondent [proxy]

DATA COLLECTION NOTES

Nanoro HDSS use paper based collection during the initial census and the different rounds. The field team is composed by a Demographer, a Geographer, Field Supervisors (FS), Field workers (FW), and Community key informants. The Demographic Surveillance area is divided into four part belong to each FS with two or three FW in his charge. All the compounds in the HDSS were numbered with a unique code and geocoded. These data were entered into a geographic information system (GIS) before to the start of surveillance.

During data capture, if some inconsistency checks is found due to the system that is used for data entry who is HRS2, the questionnaire is send back to the FS. The FS will correct the questionnaire and then send back to the data entry team.

Data Collectors

| Name | Abbreviation | Affiliation |
|--------------------------|--------------|-------------|
| Coordinators | | CRUN |
| Field Supervisors | | CRUN |
| Field Workers | | CRUN |
| Community Key Informants | | CRUN |

SUPERVISION

The FS visit is done in order to ensure the quality of data collected by the FW. For that, they select a sample of household and make his own update and then compare to the update of these household by the FW. During a visit, the FS listens and observes as the FW conducts the interviews without interrupting. The FS uses a checklist to write observations and comments for feedback and further training.

After data collection and before data entry, the FS checks questionnaires for completeness, consistency and accuracy. If a questionnaire failed to meet the quality standard requirements, the FS send back the questionnaires to the FW for correction on the field. After these corrections the FS send the household register to the field coordinator who make a checks on the questionnaire before sending to the data entry team.

Data Processing

Data Editing

The forms are controlled by supervisor before moving for data entry

Data Appraisal

Other forms of Data Appraisal

CentreId MetricTable QMetric Illegal Legal Total Metric RunDate
BF021 MicroDataCleaned Starts 94403 2016-05-21 16:04
BF021 MicroDataCleaned Transitions 224478 224478 2016-05-21 16:04
BF021 MicroDataCleaned Ends 94403 2016-05-21 16:04
BF021 MicroDataCleaned SexValues 224478 2016-05-21 16:04
BF021 MicroDataCleaned DoBValues 224478 2016-05-21 16:04

File Description

Variable List

BF021.CMD2013.v1

Content
Cases 237870
Variable(s) 14
Structure Type:
Keys: ()
Version CMD2013.V1
Producer
Missing Data

Variables

| ID | Name | Label | Type | Format | Question |
|------|-----------------|-----------------|----------|-----------|----------|
| V124 | RecNr | RecNr | contin | numeric | |
| V125 | CountryId | CountryId | discrete | numeric | |
| V126 | CentreId | CentreId | discrete | character | |
| V127 | IndividualId | IndividualId | contin | numeric | |
| V128 | Sex | Sex | discrete | numeric | |
| V129 | DoB | DoB | discrete | character | |
| V130 | EventCount | EventCount | discrete | numeric | |
| V131 | EventNr | EventNr | discrete | numeric | |
| V132 | EventCode | EventCode | discrete | character | |
| V133 | EventDate | EventDate | discrete | character | |
| V134 | ObservationDate | ObservationDate | discrete | character | |
| V135 | LocationId | LocationId | contin | numeric | |
| V136 | MotherId | MotherId | contin | numeric | |
| V137 | DeliveryId | DeliveryId | contin | numeric | |

RecNr (RecNr)

File: BF021.CMD2013.v1

Overview

| | |
|------------------|-----------------------------|
| Type: Continuous | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | Minimum: 1 |
| Range: 1-237870 | Maximum: 237870 |
| | Mean: 118935.5 |
| | Standard deviation: 68667.3 |

Description

A sequential number uniquely identifying each record in the data file

CountryId (CountryId)

File: BF021.CMD2013.v1

Overview

| | |
|-----------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | |
| Range: 231-231 | |

Description

ISO 3166-1 numeric code of the country where the surveillance site is situated

CentreId (CentreId)

File: BF021.CMD2013.v1

Overview

| | |
|-------------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: character | Invalid: 0 |
| Width: 5 | |

Description

An identifier issued by INDEPTH to each member centre of the format CCNNS, Where CCNNS is the INDEPTH Member site code, constructed as follows:- CC the ISO 3166-1 alpha-2 code of the country where the site is situated- NN is a sequential number uniquely identifying an INDEPTH member centre within the country. Starting with 01 to 99, for a maximum of 99 centres per country-S is a sequential character uniquely identifying the geographical surveillance site. Starting with 1 to 9, thereafter A to Z, for a maximum of 35 sites per centre

IndividualId (IndividualId)

File: BF021.CMD2013.v1

Overview

| | |
|------------------|-----------------------------|
| Type: Continuous | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | Minimum: 1 |
| Range: 1-94442 | Maximum: 94442 |
| | Mean: 47279.5 |
| | Standard deviation: 27268.5 |

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 a contributing centre to be identify the individual

Sex (Sex)

File: BF021.CMD2013.v1

Overview

| | |
|-----------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | |
| Range: 1-2 | |

Description

Sex of the individual
1=Male
2=Female

DoB (DoB)

File: BF021.CMD2013.v1

Overview

| | |
|-------------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: character | Minimum: NaN |
| | Maximum: NaN |

Description

The date of birth of the individual Format YYYY-MM-DD

EventCount (EventCount)

File: BF021.CMD2013.v1

Overview

| | |
|-----------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | |
| Range: 2-12 | |

Description

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

EventNr (EventNr)

File: BF021.CMD2013.v1

Overview

| | |
|-----------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: numeric | Invalid: 0 |
| Decimals: 0 | |
| Range: 1-12 | |

Description

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

EventCode (EventCode)

File: BF021.CMD2013.v1

Overview

| | |
|-------------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: character | Invalid: 0 |
| Width: 3 | |

EventCode (EventCode)

File: BF021.CMD2013.v1

Description

A code which identifies the type of event that has occurred

EventDate (EventDate)

File: BF021.CMD2013.v1

Overview

| | |
|-------------------|---------------------|
| Type: Discrete | Valid cases: 237870 |
| Format: character | Minimum: NaN |
| | Maximum: NaN |

Description

The date on which the event occurred Format: YYYY-MM-DD

ObservationDate (ObservationDate)

File: BF021.CMD2013.v1

Overview

| | |
|-------------------|---------------------|
| Type: Discrete | Valid cases: 237862 |
| Format: character | Minimum: NaN |
| | Maximum: NaN |

Description

Date on which the event was observed (recorded), also known as surveillance visit date Format YYYY-MM-DD

LocationId (LocationId)

File: BF021.CMD2013.v1

Overview

| | |
|------------------|--------------------------|
| Type: Continuous | Valid cases: 237834 |
| Format: numeric | Invalid: 36 |
| Decimals: 0 | Minimum: 1 |
| Range: 1-5474 | Maximum: 5474 |
| | Mean: 2759.3 |
| | Standard deviation: 1567 |

Description

Unique identifier associated with a residence unit within the site and is the location where the individual was or became resident, when the event occurred. this identifier is not the same as the identifier used internally by the contributing centre

MotherId (MotherId)

File: BF021.CMD2013.v1

Overview

| | |
|------------------|-----------------------------|
| Type: Continuous | Valid cases: 18795 |
| Format: numeric | Invalid: 219075 |
| Decimals: 0 | Minimum: 3 |
| Range: 3-94441 | Maximum: 94441 |
| | Mean: 47866.6 |
| | Standard deviation: 27211.6 |

Description

The individual of the mother, only provided for BTH events

DeliveryId (DeliveryId)

File: BF021.CMD2013.v1

Overview

| | |
|------------------|----------------------------|
| Type: Continuous | Valid cases: 18795 |
| Format: numeric | Invalid: 219075 |
| Decimals: 0 | Minimum: 1 |
| Range: 1-12246 | Maximum: 12246 |
| | Mean: 5785.7 |
| | Standard deviation: 3441.3 |

Description

The RecNr of the delivery event associated with this birth

