

Ethiopia - Gilgel Gibe HDSS Core Dataset 2006 - 2015 (Release 2018)

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

Overview

Identification

ID NUMBER
INDEPTH.ET021.CMD2015.v1

Version

VERSION DESCRIPTION
CMD2015.v1: Initial document for public distribution

PRODUCTION DATE
2018-05-23

NOTES
CMD2015.v1: Developed during iSHARE2 Workshop in May 2018

Overview

ABSTRACT

Gilgel Gibe Health and Demographic Surveillance System (GGHDSS) was established in 2005 and is located surrounding the Gilgel Gibe Hydroelectric dam, within four districts of Jimma Zone, Oromia Region, Southwest Ethiopia. Its global position is between latitudes 07.4253 and 07.5558oN and longitudes 037.1153 and 037.2033oE with agroclimatic zone of midland. The center comprised of 11 kebeles (smallest administrative structure in Ethiopia) of which 3 are small towns.

The primary purpose of this surveillance system was to monitor basic vital events indicators and generate relevant health, demographic and socioeconomic information for policies and programs. In addition, the center supports graduate and post graduate level research undertakings and conduct molecular to population level collaborative research with local and international stakeholders.

Populations of the center are updated every six months with resident data collectors supported by supervisors, local guides and surveillance team. The data are currently entered at Jimma University with the help of four data entry clerks and a data manager using HRS2 database. During the update pregnancy observations and outcome, death, in and out migration, marital change and locations are updated. Both electronic and hard copies of the data are stored at the center.

KIND OF DATA
Event history data

UNITS OF ANALYSIS
Individual

Scope

NOTES
The scope of the survey includes:

1. Individuals unique identifier, sex and date of birth
2. Events - start and end events like birth, death, migration, date of event
3. Mother and livebirth - Mother Id, number of live births

4. Location Id of each individual and Episode Id

TOPICS

Topic	Vocabulary	URI
Demography [N01.224]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Socioeconomic Factors [N01.824]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Population [N01.600]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Mental Health [N01.400.500]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Reproductive Health [N01.400.625]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Family Health [N01.400.300]	MeSH	http://www.ncbi.nlm.nih.gov/mesh
Demography [N06.850.505.400]	MeSH	http://www.ncbi.nlm.nih.gov/mesh

KEYWORDS

Mortality, Fertility, Migration

Coverage

GEOGRAPHIC COVERAGE

Gilgel Gibe Health and Demographic Surveillance System (GGHDSS) is located surrounding the Gilgel Gibe Hydroelectric dam, in four neighbouring districts, Kersa, Omonada, Tiro Afeta and Sekoru, of Jimma Zone, Oromia Region, Southwest Ethiopia. Its global position is between latitudes 07.4253 and 07.5558 oN and longitudes 037.1153 and 037.2033 oE with agroclimatic zone of midland. The center comprised of 11 kebeles (smallest administrative structure in Ethiopia) of which 3 were small towns.

UNIVERSE

All residents of the surveillance site

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Fasil Tessema	GGHDSS, Institute of Health Sciences Research, Jimma University

OTHER PRODUCER(S)

Name	Affiliation	Role
Dr. Muluemebet Abera	College of Public Health and Medical Sciences, Jimma University	Co-PI
Dr. Lelisa Sena	College of Public Health and Medical Sciences, Jimma University	Surveillance Team
Nigus Mehari	ICT	Data Manager
Zegeye Kelkilew	ICT	Data Manager
Tizita Fisseha	GGFRC	Data encoder
Fasika	GGFRC	Data encoder

FUNDING

Name	Abbreviation	Role
Ethiopia Public Health Association	EPHA	Financial and Technical Support
Centers for Diseases Control and Prevention, Ethiopia	CDC-Ethiopia	Financial and Technical Support

Name	Abbreviation	Role
Jimma University	JU	Financial and Administrative support

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Henok Asefa	GGHDSS, IHSR, JU	Data Manager
Zinash Solomon	College of Public Health and Medical Sciences	Administrator
Niguse Mehari	ICT, JU	Assistant data manager
The Population of The GGFC		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
iSHARE2 Technical Team	isTT	INDEPTH Network	Technical Support
INDEPTH Network	int.INDEPTH	INDEPTH	Agency
Fasil Tessema	FT	GGHDSS, Institute of Health Sciences Research, Jimma University	DDI Author

DATE OF METADATA PRODUCTION

2018-05-23

DDI DOCUMENT VERSION

ET021.CMD2015.v1

DDI DOCUMENT ID

DDI.INDEPTH.ET021.CMD2015.v1

Sampling

Sampling Procedure

Demographic surveillance population as a whole with more than 13,500 households that varied at the start in 2005 and one more kebele was added in 2008 which is a small town

Deviations from Sample Design

Not applicable

Response Rate

On an average the responserate is 99% over the years for every round.

Weighting

Not applicable

Questionnaires

Overview

The questionnaires are designed to capture the core HDSS information which includes the baseline, pregnancy observation, pregnancy outcome, birth, immigration, outmigration and death along with the other questionnaires.

Data Collection

Data Collection Dates

Start	End	Cycle
2006-01-01	2015-12-31	Release Coverage

Time Periods

Start	End	Cycle
2005-08-23		Round 0
2005-10-01		Round 1
2006-09-11		Round 2
2007-09-11		Round 3
2008-09-11		Round 4
2009-09-11		Round 5
2010-09-11		Reound 6 (Recensus)
2011-03-15		Round 7
2011-10-02		Round 8
2012-03-19		Round 9
2012-09-18		Round 10
2013-03-14		Round 11
2013-09-15		Round 12
2014-03-15		Round 13
2014-09-15		Round 14
2015-03-16		Round 15
2015-09-17		Round 16
2016-03-09		Round 17
2016-09-11		Round 18

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

Before each round update, refresher trainings for field workers, supervisors, data manager, data editors and surveillance team are given.

Field data collectors are high school complete and residents of the respective assigned area.

Questionnaires

The questionnaires are designed to capture the core HDSS information which includes the baseline, pregnancy observation, pregnancy outcome, birth, immigration, outmigration and death along with the other questionnaires.

Data Collectors

Name	Abbreviation	Affiliation
Resident Data Collectors		GGHDSS

Supervision

Supervision is conducted at two levels - level 1 includes supervisory support by resident supervisor assigned for 3 - 5 nearby Kebeles each. These are individuals upgraded from data collector level who worked for more than 10 years in the surveillance system. They are responsible to give on site supervisory support, request for materials and distribute to data collectors. In addition to on the job supervision, they review, edit, correct error with data collectors and submit to data editors at office level. The second group of supervision is made by surveillance team where their activities are based on data error and issues that appear from the database and during monthly surveillance meeting through on site visit of data collectors, supervisors and households.

Data Processing

Data Editing

Data was left censored to 1 Jan 2006 to account for the start-up phase of the surveillance.

Data Appraisal

Estimates of Sampling Error

Not Applicable

Other forms of Data Appraisal

CentreId MetricTable QMetric Illegal Legal Total Metric RunDate

ET021 MicroDataCleaned Starts 84970 2018-05-23 15:17

ET021 MicroDataCleaned Transitions 0 224115 224115 0. 2018-05-23 15:17

ET021 MicroDataCleaned Ends 84970 2018-05-23 15:17

ET021 MicroDataCleaned SexValues 224115 2018-05-23 15:17

ET021 MicroDataCleaned DoBValues 224115 2018-05-23 15:17

File Description

Variable List

ET021.CMD2015.V2

Content	This file contain event history data of Gilgel Gibe HDSS
Cases	264498
Variable(s)	14
Structure	Type: Keys: ()
Version	CMD2015.v2
Producer	Gilgel Gibe HDSS
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V1	RecNr	RecNr	contin	numeric	
V2	CountryId	CountryId	discrete	numeric	
V3	CentrelId	CentrelId	discrete	character	
V4	IndividualId	IndividualId	contin	numeric	
V5	Sex	Sex	discrete	numeric	
V6	DoB	DoB	discrete	character	
V7	EventCount	EventCount	discrete	numeric	
V8	EventNr	EventNr	discrete	numeric	
V9	EventCode	EventCode	discrete	character	
V10	EventDate	EventDate	discrete	character	
V11	ObservationDate	ObservationDate	discrete	character	
V12	LocationId	LocationId	contin	numeric	
V13	MotherId	MotherId	discrete	numeric	
V14	DeliveryId	DeliveryId	discrete	numeric	

RecNr (RecNr)

File: ET021.CMD2015.V2

Overview

Type: Continuous	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-167395	Maximum: 264498
	Mean: 132249.5
	Standard deviation: 76354.1

Description

A sequential number uniquely identifying each record in the data file

CountryId (CountryId)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
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: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: character	Invalid: 0
Width: 5	

Description

An identifier issued by INDEPTH to each member centre of the format CCNNNS, Where CCNNNS 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: ET021.CMD2015.V2

Overview

Type: Continuous	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-78723	Maximum: 85164
	Mean: 42589.5
	Standard deviation: 24612.9

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: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	
Range: 0-2	

Description

Sex of the individual

DoB (DoB)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: character	Minimum: NaN
	Maximum: NaN

Description

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

EventCount (EventCount)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	
Range: 2-9	

Description

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

EventNr (EventNr)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	
Range: 1-9	

Description

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

EventCode (EventCode)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: character	Invalid: 0
Width: 3	

Description

EventCode (EventCode)

File: ET021.CMD2015.V2

A code which identifies the type of event that has occurred

EventDate (EventDate)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
Format: character	Minimum: NaN
	Maximum: NaN

Description

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

ObservationDate (ObservationDate)

File: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 264498
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: ET021.CMD2015.V2

Overview

Type: Continuous	Valid cases: 264498
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-15223	Maximum: 17415
	Mean: 8690.7
	Standard deviation: 5043.7

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: ET021.CMD2015.V2

Overview

Type: Discrete	Valid cases: 36526
Format: numeric	Invalid: 227972
Decimals: 0	

Description

The individual of the mother, only provided for BTH events

DeliveryId (DeliveryId)

File: ET021.CMD2015.V2

Overview

Type: Discrete
Format: numeric
Decimals: 0

Valid cases: 36526
Invalid: 227972

Description

The RecNr of the delivery event associated with this birth

