

Ethiopia - Gilgel Gibe HDSS Core Dataset 2005 - 2012 Release 2015

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

Overview

Identification

ID NUMBER

INDEPTH.ET021.CMD2012.V1

Version

VERSION DESCRIPTION

CMD2012.V1 Edited dataset for public distribution

PRODUCTION DATE

2015-06-11

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

Topic	Vocabulary	URI
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

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
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Dr. Tizta Tilahun	College of Public Health and Medical Sciences, Jimma University	Surveillance Team
Dr. Lelisa Sena	College of Public Health and Medical Sciences, Jimma University	Surveillance Team
Alemayehu Atomsa	College of Public Health and Medical Sciences, Jimma University	Surveillance Team
Dr. Esayas Alemayehu	College of Public Health and Medical Sciences, Jimma University	Surveillance Team

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
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
Tariku Dejene	AAU	Former data manager

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Gilgel Gibe HDSS	GGHDSS	Institute of Health Sciences Research, Jimma University, Ethiopia	Documentation of the study
iSHARE2 Technical Team	isTT	INDEPTH Network	Technical Support
INDEPTH Network	int.INDEPTH	INDEPTH	Agency

DATE OF METADATA PRODUCTION

2015-07-27

DDI DOCUMENT VERSION

CMD2012.V1

CMD2012.v2

DDI DOCUMENT ID

DDI.INDEPTH.ET021.CMD2012.V2

Sampling

Sampling Procedure

Demographic surveillance population as a whole with more than 12,500 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, birth, immigration, outmigration and death along with the other questionnaires.

Data Collection

Data Collection Dates

Start	End	Cycle
2005-08-23	2005-09-30	0
2005-10-01	2006-09-10	1
2006-09-11	2007-09-10	2
2007-09-11	2008-09-10	3
2008-09-11	2009-09-10	4
2009-09-11	2010-09-10	5
2010-09-20	2011-02-28	Recensus
2011-03-15	2011-09-15	7
2011-10-02	2012-03-13	8
2012-03-19	2012-09-09	9
2012-09-18	2013-02-14	10

Time Periods

Start	End	Cycle
2006-01-01	2012-12-31	N/A

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.

Data Collectors

Name	Abbreviation	Affiliation
Resident Data Collectors		GGHDSS

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	85736	2015-06-11	12:41		
ET021	MicroDataCleaned	Transitions	0	219496	219496	0	2015-06-11 12:41
ET021	MicroDataCleaned	Ends	85736	2015-06-11	12:41		

File Description

Variable List

ET021.CMD2012.V1

Content

Cases 202615

Variable(s) 14

Structure Type:
Keys: ()

Version

Producer

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.CMD2012.V1

Overview

Type: Continuous	Valid cases: 202615
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-167395	Maximum: 202615
	Mean: 101308
	Standard deviation: 58490.1

Description

A sequential number uniquely identifying each record in the data file

CountryId (CountryId)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
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.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
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: ET021.CMD2012.V1

Overview

Type: Continuous	Valid cases: 202615
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-78723	Maximum: 85777
	Mean: 39519.2
	Standard deviation: 22831.4

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.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
Format: numeric	Invalid: 0
Decimals: 0	
Range: 0-2	

Description

Sex of the individual

DoB (DoB)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
Format: character	Minimum: NaN
	Maximum: NaN

Description

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

EventCount (EventCount)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
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.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
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.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
Format: character	Invalid: 0
Width: 3	

Description

A code which identifies the type of event that has occurred

EventDate (EventDate)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202615
Format: character	Minimum: NaN
	Maximum: NaN

Description

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

ObservationDate (ObservationDate)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 202606
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.CMD2012.V1

Overview

Type: Continuous	Valid cases: 202611
Format: numeric	Invalid: 4
Decimals: 0	Minimum: 1
Range: 1-15223	Maximum: 16537
	Mean: 7603.6
	Standard deviation: 4414.8

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.CMD2012.V1

Overview

Type: Discrete	Valid cases: 26644
Format: numeric	Invalid: 175971
Decimals: 0	

Description

The individual of the mother, only provided for BTH events

DeliveryId (DeliveryId)

File: ET021.CMD2012.V1

Overview

Type: Discrete	Valid cases: 26644
Format: numeric	Invalid: 175971
Decimals: 0	

Description

DeliveryId (DeliveryId)

File: ET021.CMD2012.V1

The RecNr of the delivery event associated with this birth

