

# Change in maternal and newborn health care. Data from two cross-sectional surveys in Ethiopia, 2012 and 2015

## Alternative Title:

Interactions between families and frontline workers – their frequency, quality, and equity – and coverage of interventions for mothers and newborns.

IDEAS Quantitative Survey Data Collection in Ethiopia, 2012 and 2015

## Data Creators

Tanya Marchant

## Data Description

This collection comprises the survey instruments and datasets for the household, health facility and frontline worker quantitative surveys which were conducted by the IDEAS project in Ethiopia in 2012 and 2015. Data were collected with the primary aims of demonstrating whether 1) interactions between families and frontline health workers had been enhanced between 2012 and 2015 by increasing in number, improving in quality and becoming more equitable; and 2) whether the coverage of life-saving interventions and behaviours has increased as a result of maternal and newborn health innovations.

## Data Collection Methods

The IDEAS Ethiopia quantitative surveys were conducted in the Ethiopian regions of Amhara, Oromia, Tigray and SNNP in 2012 and again in 2015. Each survey was composed of:

- A cluster-sampled household survey, in which all households within randomly selected clusters were visited for a face-to-face interview. At each household the head of the household or representative was interviewed, a roster of household residents was taken, resident women aged 15-49 years were identified from the roster and each of these women was asked a detailed series of questions relating to her health service use and the care she and her newborns received before, during and after her most recent pregnancy if this had been within two years of the interview date.
- A health facility survey, in which health facilities providing routine MNCH services to each sampled cluster were identified and a detailed interview conducted with the head of that facility about service provision and staffing, an inventory of equipment and commodities made, and data extracted from facility record books.
- A frontline worker survey, in which frontline health workers identified within the sampled cluster were asked a detailed series of questions about service provision, training, knowledge and workload, in relation to maternal and newborn care.

## Geographic regions

Data was collected in the Amhara, Oromia, Tigray and SNNP regions of Ethiopia.

## Key dates

A sample of 80 villages from four regions were surveyed in 2012 and again in 2015. In both surveys approximately 75 households were visited in each village and women of child-bearing age were interviewed about any births during the previous 24 months (2010-12 and 2013-15).

## Species

Human population

Change in maternal and newborn health care. Data from two cross-sectional surveys in Ethiopia, 2012 and 2015

### Privacy:

To preserve the anonymity of individual survey participants, the following modifications have been made to the datasets and/or survey documentation:

Information removed:

- Geographical information below zone level in each region
- Names relating to clusters (i.e. village names)
- GPS co-ordinates, including those for health facilities which are in a similar vicinity to household clusters
- Names of individuals and their children
- Birth dates

Information modified:

- Sampling clusters, households and individuals are only identified by numbers which were generated by these surveys. Numeric identifiers are not associated with data held by other organisations.
- Adult ages have been replaced with age groups in five-year intervals.

### Ethics

Ethics approval obtained from the London School of Hygiene & Tropical Medicine ethics committee.

### Keywords

Ethiopia, Maternal and Newborn Health

### Language of written material

Survey instruments written in English, Amharic and Tigrinya. Datasets documented in English.

## Project Information

### Project

IDEAS - Informed Decisions for Actions in Maternal and Newborn Health

### Funder/Sponsor

Bill & Melinda Gates Foundation

### Grant Number

ITDCVW72

### Associated Roles

Role	Forename	Surname	Faculty / Dept	Institution
<b>Principal Investigator / Data Creator</b>	Joanna	Schellenberg	Infectious & Tropical Disease > Disease Control	London School of Hygiene & Tropical Medicine
<b>Regional Co-ordinator</b>	Della	Berhanu	Infectious & Tropical Disease > Disease Control	London School of Hygiene & Tropical Medicine
<b>Data Manager</b>	Keith	Tomlin	Infectious & Tropical Disease > Disease Control	London School of Hygiene & Tropical Medicine

## File Description

The names, datatypes, labels and value labels of the datafile variables correspond with those in the accompanying questionnaires. Datafiles should be read in conjunction with the questionnaires for a full explanation of the data collected.

A brief summary of the data held in each datafile is given below.

### 2a. Health facility datafiles (questions asked of most senior staff member at health facility)

- Availability of equipment, drugs and vaccines on day of survey.
- Facility services, appropriate technology and usual practice.
- Staffing on day of survey.
- Supervision visits of staff.
- Records of facility deliveries, live births, and maternal & neonatal mortality in six months prior to survey.

### 2b. Frontline worker datafiles (questions asked of individual frontline health workers)

- Services provided by frontline worker.
- Background and training.
- Supervision received.
- Workload in the month prior to survey.
- Recalled activities at the last delivery.
- Knowledge of maternal and newborn care.

### 2c. Household survey eligible women datafiles

This datafile contains the records of individual women who were identified through the household survey as being of childbearing age (15-49) and who gave informed consent to be interviewed. Data on the characteristics of the household in which each woman lived have been merged into this datafile. In summary, the household datafiles contain:-

#### **For the household:-**

- Ethnicity of household head
- Characteristics of dwelling structure (floor & wall construction, toilet facilities, water supply, electricity supply)
- Household items and livestock owned for principle components analysis

#### **For each eligible woman:-**

- Age group
- Marital status
- Years of completed education
- Religion
- Health service use for all women (facilities and community).
- ANC care, awareness of danger signs and birth preparedness for current pregnancy, if applicable.
- ANC, intrapartum and postpartum care, vaccination history and care-seeking for sickness for the most recent birth within the last 2 years.

## File Description

File Name	File Format	Total Records	Data Collection Period
<b>ethiopia_health_facility_2012.zip</b>			
ethiopia_health_facility_2012.dta	STATA 12 dataset	162	May/June 2012
ethiopia_health_facility_2012.csv	CSV file of data	As above	As above
ethiopia_health_facility_2012.xls	Data codebook in MS Excel	-	-
ethiopia_health_facility_questionnaire_2012_English.pdf	Survey questionnaire in English	-	-
<b>ethiopia_health_facility_2015.zip</b>			
ethiopia_health_facility_2015.dta	STATA 12 dataset	190	March/April 2015
ethiopia_health_facility_2015.csv	CSV file of data	As above	As above
ethiopia_health_facility_2015.xls	Data codebook in MS Excel	-	-
ethiopia_health_facility_questionnaire_2015_English.pdf	Survey questionnaire in English	-	-
ethiopia_health_facility_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic	-	-
ethiopia_health_facility_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa	-	-
ethiopia_health_facility_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna	-	-
<b>ethiopia_frontline_worker_2012.zip</b>			
ethiopia_frontline_worker_2012.dta	STATA 12 dataset	315	May/June 2012
ethiopia_frontline_worker_2012.csv	CSV file of data	As above	As above
ethiopia_frontline_worker_2012.xls	Data codebook in MS Excel	-	-
ethiopia_frontline_worker_questionnaire_2012_English.pdf	Survey questionnaire in English	-	-
<b>ethiopia_frontline_worker_2015.zip</b>			
ethiopia_frontline_worker_2015.dta	STATA 12 dataset	320	March/April 2015
ethiopia_frontline_worker_2015.csv	CSV file of data	As above	As above
ethiopia_frontline_worker_2015.xls	Data codebook in MS Excel	-	-
ethiopia_frontline_worker_questionnaire_2015_English.pdf	Survey questionnaire in English	-	-
ethiopia_frontline_worker_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic	-	-
ethiopia_frontline_worker_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa	-	-
ethiopia_frontline_worker_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna	-	-
<b>ethiopia_household_all_2012.zip</b>			
ethiopia_household_all_2012.dta	STATA 12 dataset	3937	May/June 2012
ethiopia_household_all_2012.csv	CSV file of data	As above	As above
ethiopia_household_all_2012.xls	Data codebook in MS Excel	-	-
ethiopia_household_questionnaire_2012_English.pdf	Survey questionnaire in English	-	-
<b>ethiopia_household_all_2015.zip</b>			
ethiopia_household_all_2015.dta	STATA 12 dataset	6510	March/April 2015

Change in maternal and newborn health care. Data from two cross-sectional surveys in Ethiopia, 2012 and 2015

ethiopia_household_all_2015.csv	CSV file of data	As above	As above
ethiopia_household_all_2015.xls	Data codebook in MS Excel	-	-
ethiopia_household_questionnaire_2015_English.pdf	Survey questionnaire in English	-	-
ethiopia_household_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic	-	-
ethiopia_household_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa	-	-
ethiopia_household_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna	-	-
<b>Questionnaires.zip</b>			
ethiopia_health_facility_questionnaire_2012_English.pdf	Survey questionnaire in English		
ethiopia_health_facility_questionnaire_2015_English.pdf	Survey questionnaire in English		
ethiopia_health_facility_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic		
ethiopia_health_facility_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa		
ethiopia_health_facility_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna		
ethiopia_frontline_worker_questionnaire_2012_English.pdf	Survey questionnaire in English		
ethiopia_frontline_worker_questionnaire_2015_English.pdf	Survey questionnaire in English		
ethiopia_frontline_worker_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic		
ethiopia_frontline_worker_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa		
ethiopia_frontline_worker_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna		
ethiopia_household_questionnaire_2012_English.pdf	Survey questionnaire in English		
ethiopia_household_questionnaire_2015_English.pdf	Survey questionnaire in English		
ethiopia_household_questionnaire_2015_Amharic.pdf	Survey questionnaire in Amharic		
ethiopia_household_questionnaire_2015_Oromifa.pdf	Survey questionnaire in Oromifa		
ethiopia_household_questionnaire_2015_Tigrigna.pdf	Survey questionnaire in Tigrigna		
<b>Dataset_Codebooks.zip</b>			
ethiopia_health_facility_2012.xls	Data codebook in MS Excel	-	-
ethiopia_frontline_worker_2012.xls	Data codebook in MS Excel	-	-
ethiopia_frontline_worker_2012.xls	Data codebook in MS Excel	-	-
ethiopia_frontline_worker_2015.xls	Data codebook in MS Excel	-	-
ethiopia_household_all_2012.xls	Data codebook in MS Excel	-	-
ethiopia_household_all_2015.xls	Data codebook in MS Excel	-	-