

Dagu Baseline Survey

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Aims

- The first set of primary data collected just before the full implementation of OHEP
- The main aims include:
 - (i) To obtain baseline information on the characteristics of health providers, households, women aged 13-49 and their children;
 - (ii) To enable an examination of the differences in characteristics of the study population between the eligible individuals in the intervention and comparison, and
 - (iii) To provide information on outcomes against which the OHEP project impact will be evaluated.



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Study population

- For the household survey
 - A representative sample of all households in the study woreda
 - with particular focus on women aged 13 to 49 years, and
 - Children under the age of 5 years.

- For the health provider survey
 - Health Centre staff who provide care for neonates and children under 5 years of age working at Health Centre in selected household clusters.
 - Health Extension Workers in the selected household clusters.
 - Women's Development Army members who reside in selected household clusters.







Sampling frame

- We used existing sampling frame from CSA
- the lists of enumeration Areas(EA) based on the 2007 Ethiopian Housing and Population Census were used.
- 200 enumeration areas were selected with probability proportional to size (PPS).

Stratification

- Stratified by intervention and comparison area
- Representtative sample drawn from each stratum





Designing the sample

• Sample size

Survey	Intervention group	Comparison group	Total
Household	3000	3000	6000
Children aged 2-59 months	1747	1747	3494
Health Posts	100	100	200
Sick children observed at health posts	400	400	800





Selection of comparison sites

- The comparison woredas were identified by Oromia, Tigray, SNNP and Amhara RHBS
- Support from their respective local universities- MU, HU, JU and UoG.
- Based on all or some of the following criteria:
 - 1. Woredas which are similar to intervention woredas in
 - Population size and number of PHCUs
 - performance data from 2007/2008
 - Length of WDA network establishment
 - Length of time since starting ICCM and CBNC program
 - Socio demographic status of the population
 - Prior exposure to other similar programs
 - Burden of disease. Malaria vs. non-Malaria kebeles
 - 2. Woredas with no presence of partners working on demand generation.
 - 3. Woreda's proximity to the intervention woredas
 - 4. Woredas adjacent to intervention Woredas.





Selection of comparison sites

For Oromia region

- Similar population size and socio demographic characteristics (for example Agrarian vs pastoralist)
- Distance from the intervention site to avoid contamination of information. So nearby districts were excluded.
- Similar exposure with the intervention district in terms of specific programs such as iCCM and CBNC programs or
- Specific burden of disease such as Malaria.

For SNNP region

- Similarities in length of time since iCCM and CBNC program started;
- Length of time since WDA network established;
- Population size and number of PHCUs
- Performance on service utilization (e.g. ANC, facility delivery, PNC and immunization)

For Tigray region

- Similarities in performance on iCCM and CBNC programs,
- Location of the Woredas (if Woreda is adjacent to intervention Woreda), and
- Proximity of the Woreda from the intervention Woredas

For Amhara region

- Similarities in service utilisation rate based on performance data from EFY 2008 (LAFP, Maternity service coverage including ANC4+, SBA, early PNC, immunization coverage, access to latrine, model HHs graduated);
- How accessible the Woreda is and
- No presence of active partners working on demand generation programs





Survey tools

Questionnaire design

- Developed by LSHTM research team
- Other sources also provided guides to the questionnaires;
 - Demographic and Health Survey,
 - IDEAS CBNC and Household Survey.
- These various sources ensured
 - A comprehensive coverage
 - Practicality and validity of questionnaires.

Questionnaire translation

- Final draft translated by partner universities
- Three local languages.
 - Amharic, Oromifia and Tigrigna





Survey tools

We have 8 tools:

- 1. Household Survey
- 2. Woman Development Army Survey
- 3. Health Extension Worker Survey
- 4. Health Provider Assessment Survey
- 5. Health Centre Staff Survey
- 6. Health Centre Survey
- 7. Health Post Survey
- 8. Woreda Contextual Survey





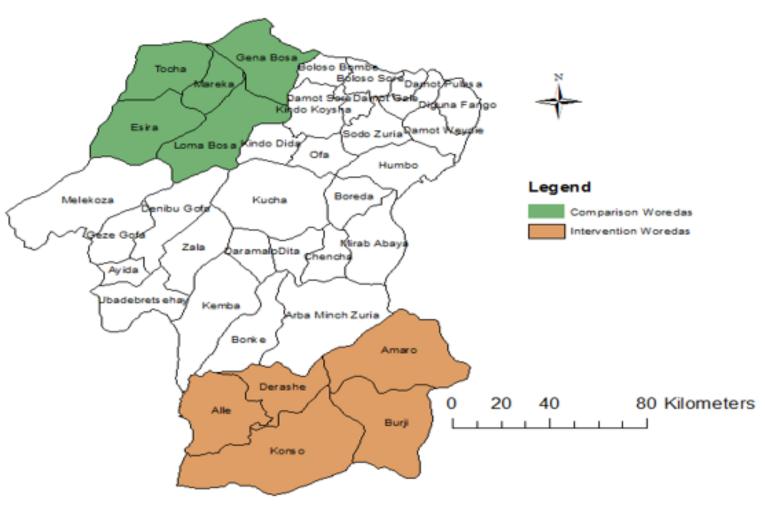
Study settings

- The survey was carried out in 52 woredas, 10 zones in four regions.
 - SNNP:
 - Segen and Dawuro zones
 - Tigray:
 - South East, Eastern, Southern and Central zones
 - Amhara:
 - Awi and North Gondar zones
 - Oromia:
 - Guji and West Hararge zones





Segen and Dawuro zone in SNNP Region

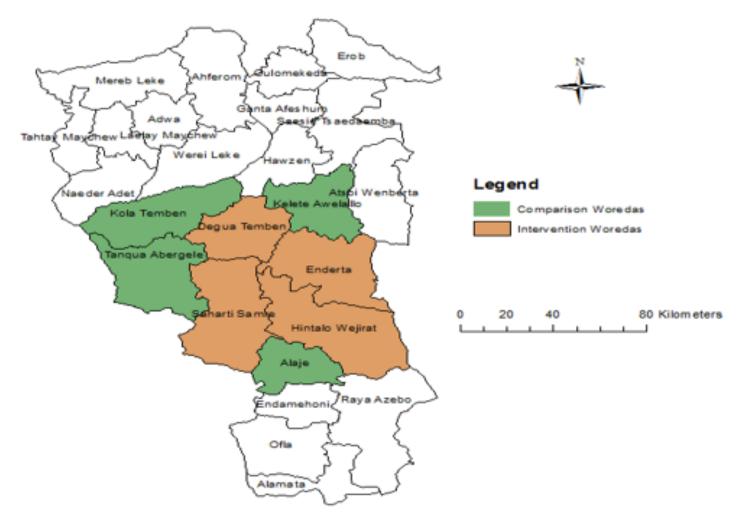




Evaluation, mutual capacity strengthening and learning to increase child health service use in Ethiopia



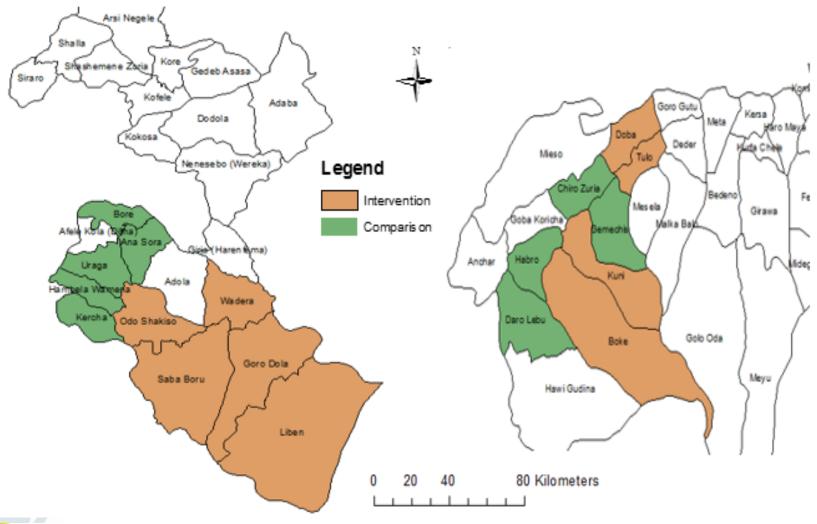
South East, Eastern, Southern and Central zone in Tigray Region







Guji and West Harage zones in Oromia Region

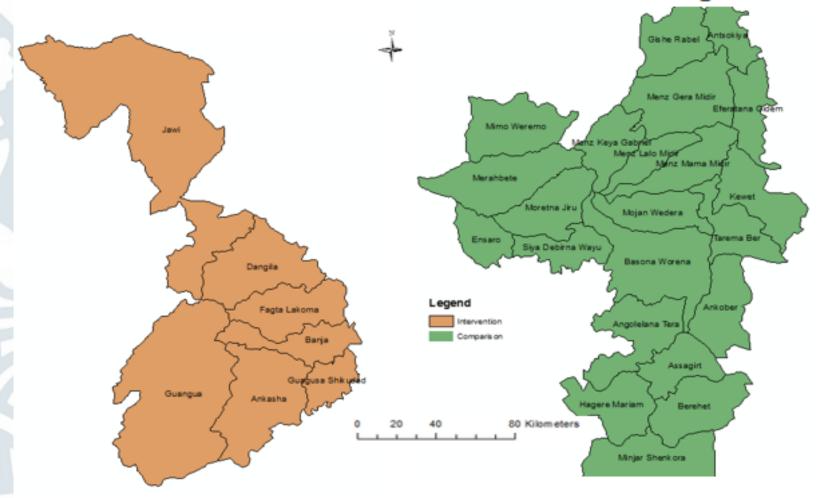




Evaluation, mutual capacity strengthening and learning to increase child health service use in Ethiopia



Awi and North Shewa Zones in Amhara Region

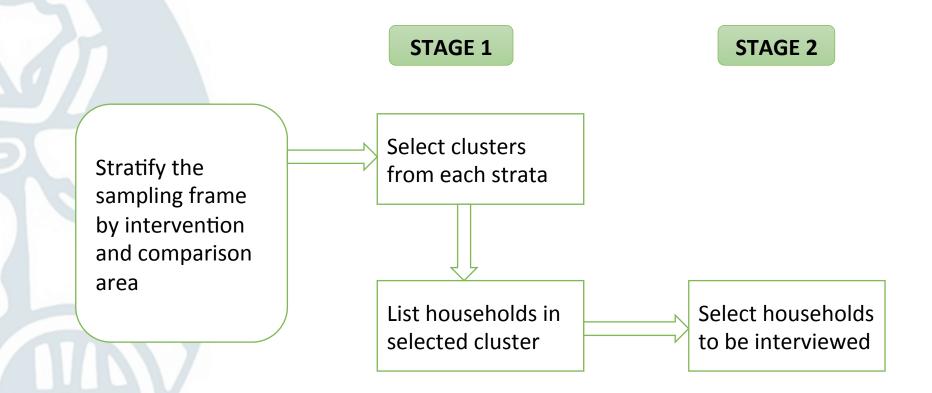






Household Sampling

A two-stage stratified cluster sampling technique







Household listing

First stage

- 200 clusters selected from 2007 census frame.
- -Systematically selected with probability proportional to size

Second stage

- A complete household listing was carried out in each selected cluster(EA)
- Based on the household listing, 30 households are selected from each cluster systematically.





Health Providers Sampling

- For every cluster of 30 households:
 - The WDA leader serving the household cluster were selected
 - The health post serving these households were selected.
 - The two HEWs serving the selected health post were selected.
 - The health centre serving the selected health post were selected.
 - Within the HC, we collect information on each member of health center staff who work on sick child services whether or not they have been trained in IMNCI and ICCM.
 - The woreda serving the selected health centre were selected

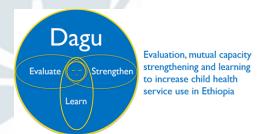




Sick Children Sampling

To identify sick children, for every cluster:

- Interviewers will conduct community mobilization
 - Interviewers contacted 1 to 30 WDA leaders,
 - Kebele focal person and
 - Other key figures in the community
 - We sampled on average 4 sick children per health post.





Field Staff by Region

Region	Number of Teams	Clusters	Number of HHs
Amhara	6	73	2190
Oromia	5	69	2070
SNNP	2	29	870
Tigray	2	29	870





Survey Field Staff

Recruitment

- 45 Interviewers
- 15 Team leaders
- 1 Data manager
- 1 Central Coordinator
- 4 Regional Coordinators (PhD Students)

Training

- Two weeks training
- 3 days field piloting

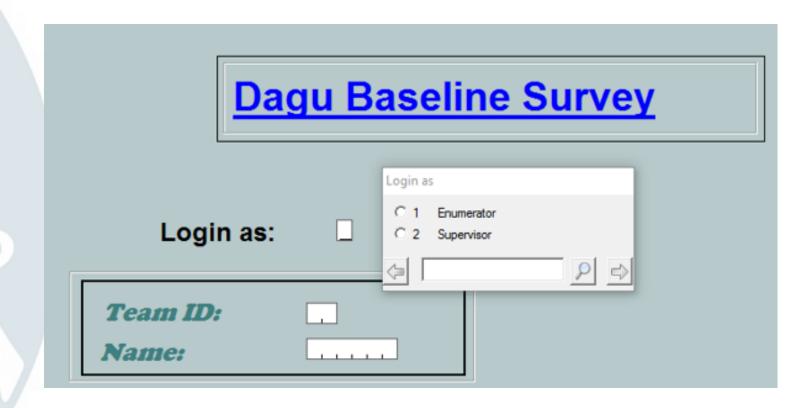
Field materials

- Field Manual
- Tablets
- GPS
- Other





Questionnaire in tablet







Questionnaire in tablet

	Module 3 – Child Health Section 3.1: Identification of and consent from care	givers			
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	397h. ከቤተሰቡ ውስጥ የልጆቹን አሳዳጊ ምረጥ			M _, am _, o, , , , , , , , , , , , , , , , , , ,	
	398h. የአሳዳጊዎቹን መለያ ምረጥ			2,8,0,7,0,1	
	399h. አሳዳኒዎቸን ቃለመጠየቐ ማድረማ ይቻላል?			1	
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	403h_oth. ሌላ (ይባለፅ)				
	413h. በወባ እንዳይታመሙ ከፈለጉ እራስዎን በምን መከላከል ይቸላሉ?		0,5,,,,		
	413h_oth. ሌላ (ይባለፅ)				
	423h. ስለ አልጋ አነበር መልክት ሰምተው ወይም አይተው ያውቃሉ			1	
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Evaluation strengther service use in Ethiopia

Data Transfer to Central Office

Data transfer mechanisms

- 1. IFSS(EVDO)
- 2. 3G modem
- 3. USB flash disk sent by regional coordinators





Quality Control

At the field

- Well trained interviewers and team leaders
- Team leaders repeat interview
- Regional coordinators supervision
- Weekly Progress report Regional coordinators

At Central Office

- Weekly Quality Control report
 - Internal inconsistenies
 - Feedback loop from Central Office
- Frequency check







Cluster ID	03	0				
House_No	Interviewer	Head of HH	Date	latitude	longitude	Distance
03001	MW	ALEMU BIRESAW	16-12-16	11.16333	36.91806	0.40
03002	MW	MELKE TADESSE	21-12-16	11.16639	36.91611	0.11
03003	EA	BAMLAK YUHANNES	21-12-16	11.16722	36.91556	0.31
03004	MW	ADANE ENDALEW	18-12-16	11.17000	36.91611	0.23
03005	MW	ADDIS GETNET	18-12-16	11.16917	36.91417	0.34
03006	EA	MELKAMU MEKONNO	27-12-16	11.16611	36.91444	1.78
03007	EA	KES MULE DAGNAW	21-12-16	11.15972	36.89944	1.45
03008	EA	FETENE ANAGAW	27-12-16	11.16694	36.91056	0.20
03009	EA	DEMELASH BIRLE	21-12-16	11.16833	36.91167	0.19
03010	MW	GASHAW ABE	19-12-16	11.17000	36.91111	0.22
03011	MW	MULUADAM ALENE	18-12-16	11.16861	36.90972	0.21

Cluster ID	00	04				
House_No	Interviewer	Head of HH	Date	latitude	longitude	Distance
00402	BD	FISHA HADUSH	24-12-16	13.22111	39.65694	38.98
00403	BD	GIDYE FETIYOE	24-12-16	13.57167	39.65861	0.53
00405	GH	BERHE GEBREYESUS	15-12-16	13.56694	39.65917	0.60
00406	GH	MEHARI TADELE	15-12-16	13.57222	39.66028	1.00
00407	GH	AMLESU HAILU	14-12-16	13.56972	39.65139	1.94
00408	BD	MANASIBO HAGOSE	24-12-16	13.55417	39.65944	1.61
00409	GH	HADAS KELELOM	14-12-16	13.56861	39.65944	0.15
00410	BD	TEKIA REDA	24-12-16	13.56833	39.66083	1.27
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Evaluation, mutual capacity strengthening and learning to increase child health service use in Ethiopia

Quality Control

Team	Interviewer Initial	Total Nr. of HHs		Prop, of HH with <5 children	Number of < 5 children	Prop. of children per HH		Prop. of eligible women per HH
	LM	107	80	0.75	145	1.36	112	1.05
	TM	85	58	0.68	85	1.00	95	1.12
11	DB	117	75	0.64	87	0.74	122	1.04
	НА	81	49	0.60	70	0.86	74	0.91
	KG	148	97	0.66	153	1.03	143	0.97
	MW	13	9	0.69	18	1.38	11	0.85
	NY	10	6	0.60	13	1.30	8	0.80
	GM	117	18	0.15	24	0.21	100	0.85
7	SP	36	14	0.39	18	0.50	32	0.89
	WH	147	47	0.32	68	0.46	127	0.86





Current status

• Data collection expected to be completed in first week of February.

No				<u> </u>				Number of survey conducted						
	Region	Number gion Of	Of Completed	Clusters not Completed	нн									
		Clusters		Completed	Total HH	Total Eligible Women	Total Eligible Child	WDA	HP	HEW	HPA	нс	HCS	WCF
1	Amhara	73	49	24	1531	3850	1835	64	52	84	192	41	53	13
2	Oromia	69	40	29	1408	2423	1441	59	44	76	130	29	35	12
3	SNNP	23	11	12	366	453	216	23	15	16	48	11	11	5
4	Tigray	29	15	14	479	504	197	28	18	29	28	17	16	4
	Total	194	115	79	3784	7230	3689	174	129	205	398	98	115	34





Next step

- Preparing the data for Analysis
- Analysis workshop (in March)
- PhD students writing their first paper
- Baseline report for
 - Implementers
 - FMoH



