

# Health Information System

# I. INTRODUCTION

## 1.1 Background

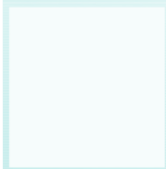
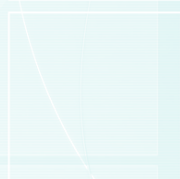
Ethiopia covers an area of about 1.1 million square kilometers between latitudes 30 and 150 north and longitude 330 and 480 east, in the horn of Africa. It has an estimated population of 79.8 million (2007 census projection), which is the second largest population in sub Saharan Africa. Female of reproductive age group constitutes 23.4% of the population and 83.7% of the population resides in rural areas. The country is divided in to 9 regions and 2 city administrations and further divided to 68 zones, 804 Woredas (Districts), and over 18,000 Kebeles. Primary health care coverage reached 89%, with 116 public hospitals, 2,142 health centers, 14,196 health posts, and more than 4,000 private for profit and for not profit clinics.

The health system is a three-tier system involve a primary health care unit (PHCU), comprising of five satellite Health Posts, one Health Centre and Primary hospital to serve 5,000, 25,000 and 100,000 people respectively; then General hospital with population coverage 1 million people; and specialized hospital which is expected to serve 5 million people.

## 1.2 Overview of the Ethiopian Health Information System



## II. SUMMARY



2.1 Summary of Basic Health Indicators

Indicators	1998	1999	2000	2001	2002
<b>Reproductive Health</b>					
Contraceptive Acceptance Rate	37.9	34.8	53.9	56.2	61.9
Antenatal Care Coverage	50.4	52.1	61.2	67.7	71.4
Deliveries Attended by Skilled Attendant	15.1	16.1	20.7	18.4	16.8
Postnatal care Coverage	16.1	19.2	25.9	34.3	36.2
<b>Child Health</b>					
Livebirths weighing < 2500gm	NA	NA	NA	NA	11,086
Moderate malnutrition in < 3yrs	NA	NA	NA	NA	350,017
Severe malnutrition in < 3yrs	NA	NA	NA	NA	52,970
HCs providing IMNCI service	NA	NA	548	930	1,237
<b>EPI</b>					
Penta 3 Immunization Coverage	76.8	76.8	85.4	81.6	86.0
Measles Immunization Coverage	66.7	68.4	75.9	76.6	82.4
Full Immunization Coverage	54.6	56.8	66.4	65.5	72.3
<b>DD Prevention and Control</b>					
<b>TB and Leprosy</b>					
TB Case Detection Rate	30.0	32.0	33.9	34.0	35.8
TB Treatment Success Rate	76.0	85.0	84.0	83.6	84.0
TB Cure Rate	62.0	69.0	67.4	67.0	65.2
New Cases of Leprosy	4,406	4,179	4,414	4,302	4,430
<b>HIV/AIDS</b>					
Mothers who received NVP from those tested positive	52.9	58.3	52.5	62.8	52.7
Persons Ever Enrolled in HIV Care	39,489	164,560	266,507	376,772	473,772
Persons Ever Started on ART	24,236	97,299	150,136	208,784	268,934
Persons Currently on ART	18,594	73,124	109,930	152,472	207,733
<b>Hygiene and environmental Health</b>					
Latrine coverage	-	-	37.0	60.0	74.9
Safe water Coverage	-	-	59.5	66.2	69.0

## Health Information System

### Basic Indicators Cont...

Indicators	1998	1999	2000	2001	2002
<b>Resources</b>					
<b>Assests</b>					
<b>Facility to population Ratio</b>					
HP	1:11,637	1:8,668	1:6,626	1:6,321	1:5,630
HC	1:113,457	1:107,128	1:103,607	1:57,130	1:37,299
Hospital (all types)	1:837,736	1:839,983	1:861,823	1:778,122	1:688,748
<b>Number of Available (Public)</b>					
HP	6,191	8,528	11,446	12,448	14,192
HC	635	690	732	1,362	2,142
Hospital (all types)	86	88	88	100	116
<b>Finance</b>					
Share of Health Budget as a Proportion of total Budget	NA	NA	9.1	10.1	10.4
Percapita public Expenditure	16.0	21.6	23.1	26.6	34.6
<b>Human Resource</b>					
<b>Health Staff to Population ratio</b>					
Physicians (GP + Specialist)	1:34,064	1:40,929	1:36,374	1:36,175	1:66,999*
Health Officers	1:100,763	1:64,221	1:61,063	1:48,451	1:31,560
All Nurses	1:4,037	1:4,074	1:4,524	1:3,870	1:3,567*
Midwife Nurses	1:60,593	1:73,042	1:60,965	1:56,427	1:51,719*
Health Extension Workers	1:7,277	1:4,187	1:3,087	1:2,545	1:2,578
<b>Health Systems</b>					
<b>Health Service Coverage and Utilization</b>					
PHC Coverage	77	87	90	90	89.0
OPD attendance percapita	0.34	0.33	0.25	0.30	0.29
Total Admissions	-	-	-	-	514,679
Total Length of stay	-	-	-	-	707,221
Health centers Providing BEOC Service	-	-	-	-	33.4
<b>HMIS and M&amp;E**</b>					
Report Representative Completeness					88.9
Report Timeliness (at FMOH Level)	-	-	-	-	33.3

\* It include only health professionals work in public health facilities

\*\* Source: HMIS DQ Assessment, 2010

## 2.2 Selected HSDP III Indicators: Baseline, Targets in HSDP III and Achievements (EFY 2002)

Indicators	Baseline	Target	5th year HSDPIII
<b>Expansion of Primary Health Care Services</b>			
<b>Health Extension Program</b>			
Number of Available Health Posts	4,211	13,635	14,192
Rural HEWs Deployed and in place	NA	30,000	30,995
Urban HEWs Deployed and in place	NA	NA	3,401
Cummulative Model House Hold Graduated	NA	NA	9,979,706
<b>Health Center</b>			
Number of Available Health Centers	600	3,153	2,142
Proportion of HCs provide IMNCI Services	36.0	90.0	59.2
Proportion of HCs provide BEOC Services	0.0	30.0	33.4
Proportion of HCs providing PMTCT Services	9.0	70.0	63.1
OPD Visits per capita	NA	0.5	0.29
<b>Improve Health of Mothers and Youth</b>			
Contraceptive Acceptance Rate	NA	>60.0	61.9
Antenatal care Coverage	42.0	80.0	71.4
Deliveries attended by Skilled Attendant	12.4	32.0	16.8
Clean and Safe Delivery (Attended by HEWs)	10.0	50.0	17.0
Postnatal care Coverage	14.0	31.0	36.2
Proportion of Mothers took full Course of Prophylaxis from the eligible	0.1	25.0	18.8
<b>Improve Child Health</b>			
Protection at birth (PAB)	NA	NA	85.9
Penta 3 Immunization Coverage	70.0	85.0	86.0
Measles Immunization Coverage	61.0	75.0	82.4
Fully Immunization Coverage	45.0	54.0	72.3
Vitamin A supplementation for 2 - 5 years age children	10.0	72.0	83.1

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HSDP III Cont...

Indicators	Baseline	Target	5th year HSDPIII
<b>Hygiene and Environmental Health</b>			
Latrine Coverage	29.0	80.0	74.9
Safe Water Supply	36.0	90.0	69.0
<b>Prevention and Control of Communicable Diseases</b>			
<b>Tuberculosis</b>			
Case Detection rate	34.0	50.0	35.8
Treatment Success Rate	76.0	85.0	84.0
Cure Rate	NA	NA	65.2
<b>HIV/AIDS</b>			
HIV prevalence rate	3.5	3.5	2.4
HIV Incidence rate	0.68	0.66	0.29
Currently on ART	13,000	263,000	207,733
<b>Non Communicable Disease*</b>			
Diabetes Mellitus	–	–	64,173
Hypertension	–	–	113,523
Breast Cancer	–	–	4,911
Cervical cancer	–	–	3,019
All other Cancer	–	–	84,489
Rheumatic heart Disease	–	–	40,027
Asthma	–	–	86,661
Road Traffic Accident	–	–	66,865
Injury, Poisoning and certain other consequences of external causes	–	–	471,478
<b>M &amp; E**</b>			
Report Representative Completeness	NA	80.0	88.9
Report Timeliness (at Federal Level)	NA	80.0	33.3

\* This report doesn't include Tigray, Afar, SNNPR, Amhara 1st Quarter, and Addis Ababa 1st, 2nd & 3rd Quarter IPD mortality report

\*\* Source: HMIS DQ Assessment, 2010



## 2.3 Health Related MDG Indicators: MDG Targets and Achievements (EFY 2002)

MDG Indicators	MDG Baseline in 1990	Current Performance in 2010
<b>Goal 1: Eradicate extreme Hunger and Poverty</b>		
Prevalence of Underweight children in < 5 years	47.6**	35.0^^
Prevalence of undernourishment (% of population)	71.0*	41.0^^
<b>Goal 4: Reduce Child Mortality</b>		
Under Five Mortality Rate	210.0	104.0
Infant Mortality Rate	124.0	69.0
Measles immunization Coverage	38.0	82.4
<b>Goal 5: Improve Maternal Health</b>		
Maternal Mortality Ratio	990.0	470.0
Deliveries Attended by Skilled Attendant	10.0**	16.8
Contraceptive Use among married women 15-49 years old (modern method)	2.9	13.7***
Adolescent fertility rate (births per 1,000 women ages 15-19)	109.0	102.0^^
ANC coverage atleast four visits	10.4*	12.2***
Unmet need for Family Planing (total)	35.8*	33.8***
<b>Goal 6: Combat HIV/AIDS, Malaria and Other diseases</b>		
HIV/AIDS Prevalence	0.7	2.4
Condom use at last high risk sex, 15-24 years old, women	17.1	28.4***
TB prevalence rate per 100,000 population	59.0	560.0^
TB Incidence rate per year per 100,000 population	160.0	370.0^
TB death rate per year per 100,000 population	12.0	64.0^
TB Case Detection Rate (Smear positive)	11.0***	36.0
TB Case Detection Rate (all forms)	44.0*	49.0^^
<b>Goal 7: Ensure Environmental Sustainability</b>		
Latrine Coverage	4.0	75.0
Safe water Coverage	17.0	69.0

\* 1991

\*\*1992

\*\*\*1994

\* 2000

\*\* 2001

\*\*\* 2005

^ 2008

^^ 2009

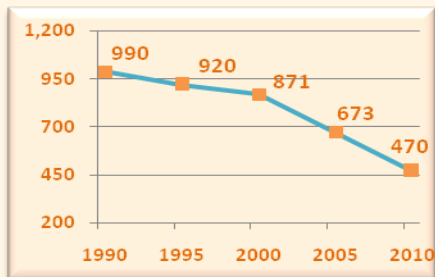
Source: World Development Indicator Database

**Figure 1: Progress Towards Millennium Development Goals (EFY 2002)**

## Maternal health

### Maternal Mortality Ratio

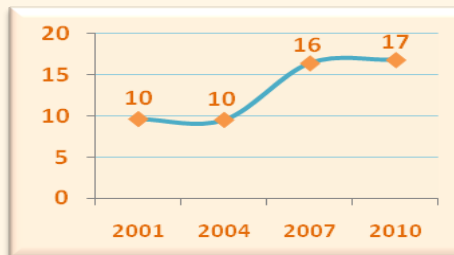
Per 100,000 live births



Source: World Development Indicators database

### Skilled Attended at Delivery

% of delivery attended by Skilled Health Personnel

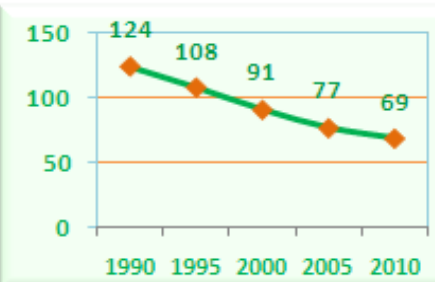


Source: Health and Health Related Indicators, 2001, 2004 and 2007

## Child Health

### Infant Mortality Rate

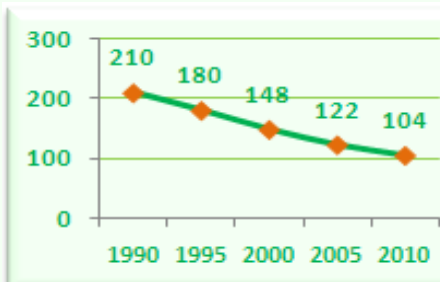
Deaths per 1000 live births



Source: World Development Indicators database

### Under 5 Mortality Rate

Deaths per 1000 live births



Source: World Development Indicators database

## Immunization

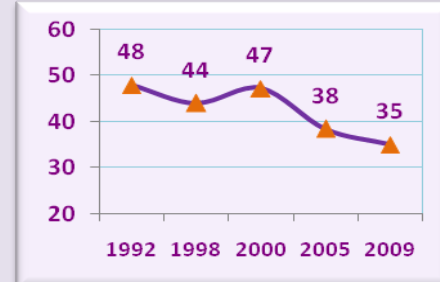
Percent Children immunized against Measles



Source: World Development Indicators database and Routine 2010 report


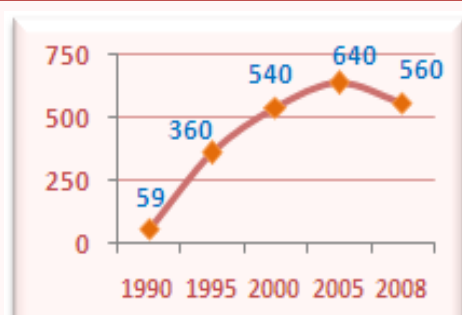
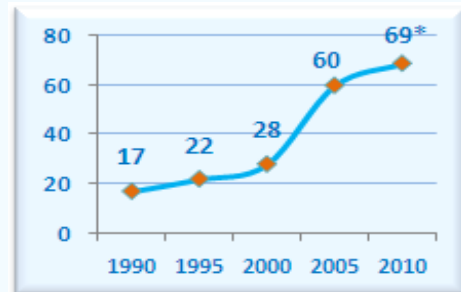
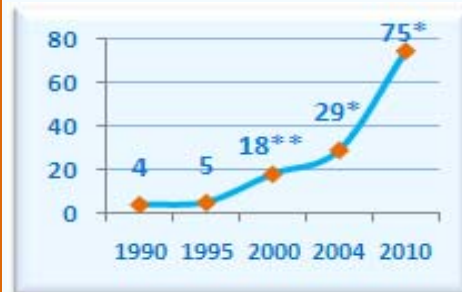

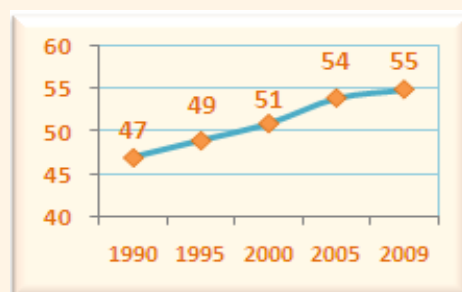
## Underweight Prevalence

Percent Children < 5 years Under Weight for Age



\* Source: DHS 2000 & 2005 and World Development Indicators database

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Communicable Disease																									
<p><b>HIV/AIDS Prevalence</b> % of population ages 15-49</p>  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <caption>HIV/AIDS Prevalence Data</caption> <thead> <tr> <th>Year</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr><td>1990</td><td>0.7</td></tr> <tr><td>1995</td><td>2.4</td></tr> <tr><td>2000</td><td>2.4</td></tr> <tr><td>2005</td><td>2.1</td></tr> <tr><td>2010</td><td>2.4*</td></tr> </tbody> </table> <p><small>Source: World Development Indicators database and * Single Point estimate, 2007</small></p>	Year	Prevalence (%)	1990	0.7	1995	2.4	2000	2.4	2005	2.1	2010	2.4*	<p><b>Tuberculosis Prevalence Rate</b> Per 100,1000 population (mid-point)</p>  <table border="1" style="margin-top: 10px; width: 100%; border-collapse: collapse;"> <caption>Tuberculosis Prevalence Rate Data</caption> <thead> <tr> <th>Year</th> <th>Rate (per 100,000)</th> </tr> </thead> <tbody> <tr><td>1990</td><td>59</td></tr> <tr><td>1995</td><td>360</td></tr> <tr><td>2000</td><td>540</td></tr> <tr><td>2005</td><td>640</td></tr> <tr><td>2008</td><td>560</td></tr> </tbody> </table> <p><small>Source: World Development Indicator Database</small></p>	Year	Rate (per 100,000)	1990	59	1995	360	2000	540	2005	640	2008	560
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### III. DEMOGRAPHIC AND VITAL STATISTICS



## 3.1 Some Demographic Indicators (EFY 2002)

Regions	Population			Sex ratio	Proportion by Age			Urban %	Dependency ratio
	Male	Female	Total		Under 1 %	Under 5 %	Female 15-49%		
<b>Tigray</b>	2,287,721	2,358,476	4,646,197	0.97	3.5	14.6	23.5	19.5	92.8
<b>Afar</b>	839,789	666,499	1,506,288	1.26	2.9	10.1	22.8	13.4	80.1
<b>Amhara</b>	9,249,260	9,157,683	18,406,943	1.01	3.3	13.5	23.6	12.6	87.3
<b>Oromia</b>	14,941,708	14,648,733	29,590,441	1.02	3.5	16.4	22.1	12.2	103.1
<b>Somali</b>	2,663,601	2,130,880	4,794,481	1.25	3.2	10.1	22.9	13.9	85.0
<b>Ben-Gumuz</b>	371,943	361,110	733,053	1.03	3.4	16.2	24.1	13.5	91.9
<b>SNNPR</b>	8,153,595	8,235,955	16,389,550	0.99	3.5	15.6	23.3	10.0	101.2
<b>Gambella</b>	179,776	166,459	346,236	1.08	3.0	13.5	26.1	25.2	76.5
<b>Harari</b>	99,503	98,517	198,020	1.01	3.1	12.9	26.1	50.5	70.0
<b>Addis Ababa</b>	1,388,539	1,525,867	2,914,406	0.91	2.2	7.2	34.6	100.0	37.6
<b>Dire Dawa</b>	185,512	183,675	369,187	1.01	3.4	12.1	27.6	67.5	61.2
<b>National</b>	40,342,920	39,551,882	79,894,802	1.02	3.4	14.6	23.4	16.3	93.0

**Source:** From 2007 population census report on December 2008.

## 3.2 Vital Statistics (EFY 2002)

Regions	Population**	CBR per 1000	RNI	TFR	Mortality Rates per 1000 population			Life Expectancy	
					IMR	CMR	Under 5 MR	Male	Female
Tigray	4,646,197	37.3	2.5	5	67	42	106	52.0	54.9
Afar	1,506,288	37.3	2.2	5	61	66	123	56.9	50.8
Amhara	18,406,943	37.3	1.7	5	94	66	154	53.4	56.0
Oromia	29,590,441	37.3	2.9	6	76	51	122	53.0	55.5
Somali	4,794,481	37.3	2.6	6	57	39	93	58.7	55.4
Ben-Gumuz	733,053	37.3	3.0	5	84	80	157	50.1	51.1
SNNPR	16,389,550	37.3	2.9	6	85	63	142	51.4	53.5
Gambella	346,236	37.3	4.1	4	92	70	156	57.6	58.3
Harari	198,020	35.7	2.6	4	66	40	103	55.6	54.7
Addis Ababa	2,914,406	35.7	2.1	4	71	70	136	54.1	55.8
Dire Dawa	369,187	35.7	2.5	1	45	28	72	60.3	64.1
<b>National</b>	<b>79,894,802</b>	<b>35.7</b>	<b>2.6</b>	<b>5</b>	<b>69*</b>	<b>50</b>	<b>104*</b>	<b>53.4</b>	<b>55.4</b>

\*\*2007 population census projection report

Source: Central Statistics Agency 2000 statistical Abstract

\* World Development Indicators Database

## 3.3 Population &amp; Health Data &amp; Estimates for Countries of the World (EFY 2002)

Country	Projected population mid - 2010 (in millions)	Life Expectancy		RNI	IMR	TFR	% of population by age group			% of population with HIV/AIDS (2008/09)		% of married women 15-49 using contraceptive		GNIPPP per Capita (US\$) 2008	
		Male	Female				Age < 15	Age 15-64	Age 65+	Total	Male	Female	All method		Modern method
<b>WORLD</b>	6,892	67	71	1.2	46	2.5	27	8	35	0.8	0.9	62	55	10,030	
<b>MORE DEVELOPED</b>	1,237	74	81	0.2	6	1.7	17	16	33	0.7	0.3	71	60	32,370	
<b>LESS DEVELOPED</b>	5,656	66	69	1.4	50	2.7	30	6	36	0.9	1.1	60	54	5,150	
<b>LESS DEVELOPED (Exc. China)</b>	4,318	63	67	1.7	54	3.1	33	5	38	1.1	1.4	52	44	4,880	
<b>LEAST DEVELOPED</b>	857	54	57	2.3	81	4.5	41	3	44	1.9	2.7	29	23	1,240	
<b>AFRICA</b>	1,030	54	57	2.4	76	4.7	41	3	44	3.2	4.8	29	23	2,630	
<b>SUB-SAHARAN AFRICA</b>	865	51	53	2.5	81	5.2	43	3	46	3.7	5.6	23	17	1,930	
<b>NORTHERN AFRICA</b>	209	67	71	1.9	42	3.0	33	4	37	0.3	0.4	49	44	5,370	
<b>WESTERN AFRICA</b>	309	50	52	2.6	81	5.5	43	3	46	2.1	3.0	14	10	1,600	
<b>EASTERN AFRICA</b>	326	52	54	2.7	72	5.3	44	3	47	4.5	6.7	28	23	1,030	
<b>Burundi</b>	9	49	52	2.1	98	5.4	41	3	44	1.6	2.4	9	8	380	
<b>Comoros</b>	1	62	66	2.6	53	4.1	38	3	41	<0.1	<0.1	26	19	1,170	
<b>Djibouti</b>	1	54	57	1.8	67	4.0	37	3	40	2.4	3.7	18	17	2,330	
<b>Eritrea</b>	5	57	62	2.9	54	4.7	42	2	44	1.0	1.5	8	5	630	
<b>Ethiopia</b>	85	54	57	2.7	77	5.4	44	3	47	1.6	2.4	15	14	870	
<b>Kenya</b>	40	56	57	2.7	52	4.6	42	3	45	4.3	8.0	46	39	1,580	
<b>Madagascar</b>	20	59	62	2.7	48	4.8	43	3	46	0.2	<0.1	40	29	1,040	
<b>Malawi</b>	15	48	50	2.9	80	6.0	46	3	49	10.2	13.5	41	38	830	
<b>Mauritius</b>	1	69	76	0.5	13	1.5	22	7	29	4.4	1.0	76	42	12,480	
<b>Mayotte</b>	0	72	76	3.6	—	4.5	44	2	46	—	—	—	—	—	

Cont...

Country	Projected population mid - 2010 (in millions)	Life Expectancy		RNI	IMR	TFR	% of population by age group			Age 15-24 (2007/08)		% of married women 15-49 using contraceptive		GNIPPP per Capita (US\$) 2008
		Male	Female				Age < 15	Age 65+	Total	Male	Female	All method	Modern method	
<b>Mozambique</b>	23	47	49	2.3	90	5.1	44	3	47	10.0	14.9	17	12	770
<b>Reunion</b>	1	75	82	1.3	8	2.4	26	8	34	—	—	67	64	—
<b>Rwanda</b>	10	50	53	2.9	102	5.4	42	2	44	2.3	3.2	36	27	1,010
<b>Seychelles</b>	0	68	78	1.0	12	2.3	22	10	32	—	—	—	—	19,770
<b>Somalia</b>	9	48	51	3.0	111	6.5	45	3	48	0.8	0.3	15	1	—
<b>Tanzania</b>	45	55	56	3.0	58	5.6	45	3	48	5.0	7.6	26	20	1,230
<b>Uganda</b>	34	52	53	3.4	76	6.5	49	3	52	4.3	6.6	24	18	1,140
<b>Zambia</b>	13	41	42	2.5	70	6.2	46	3	49	12.4	18.0	41	33	1,230
<b>Zimbabwe</b>	13	41	44	1.3	60	3.7	42	4	46	12.2	18.7	60	58	—
<b>MIDDLE AFRICA</b>	129	47	50	2.7	111	5.9	46	3	49	1.9	3.1	19	7	1,710
<b>SOUTHERN AFRICA</b>	6	53	57	1.0	48	2.5	32	5	37	14.7	22.3	59	58	9,390
<b>AMERICA</b>	929	72	78	1.0	17	2.2	25	9	34	0.8	0.3	75	69	23,370
<b>NORTHERN AMERICA</b>	344	76	81	0.6	6	2.0	20	13	33	0.9	0.3	78	73	45,890
<b>LATIN AMERICA / CAREBEAN</b>	385	71	77	1.3	22	2.3	29	7	36	0.7	0.4	73	67	10,140
<b>ASIA</b>	4,157	68	72	1.2	41	2.2	26	7	33	0.3	0.2	66	60	6,000
<b>ASIA (Exc. China)</b>	2,815	66	69	1.5	46	2.6	30	6	36	0.4	0.2	56	47	5,990
<b>EUROPE</b>	739	72	80	0.0	6	1.6	16	16	32	0.7	0.3	70	56	25,580
<b>OCEANIA</b>	37	74	78	1.1	21	2.5	24	11	35	0.6	0.3	82	63	24,380

**Source:-** Population Reference Bureau, 2010 ([http://www.prb.org/pdf09/09upds\\_eng.pdf](http://www.prb.org/pdf09/09upds_eng.pdf))





## IV. MATERNAL HEALTH

Indicators of Maternal Health include:

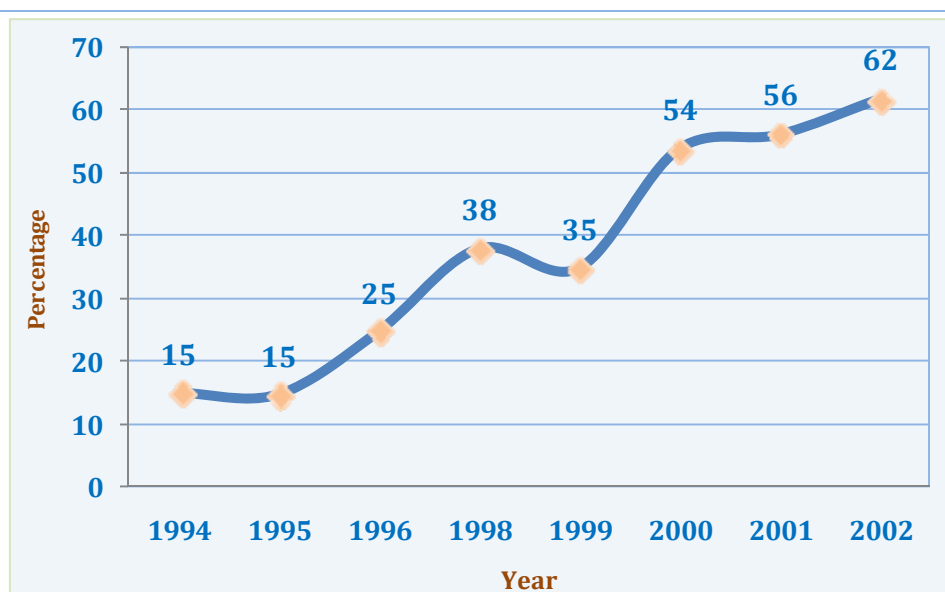
- ◆ **Contraceptive prevalence rate (CPR):** proportion of women of reproductive age (15-49 years) who are using (or whose partner is using) a contraceptive method, at a particular point in time.
- ◆ **Couple of years protection (CYP):** proportion of women who received a contraceptive product for one continuous year
- ◆ **Contraceptive acceptance rate (CAR):** proportion of women of reproductive age (15-49 years) who are not pregnant who are accepting a modern contraceptive method (new and repeat acceptors). Each acceptor is counted only once, the first time s/he receives contraceptive services in the calendar year.
- ◆ **Antenatal care (ANC) coverage:** proportion of pregnant women attended, at least once during the current pregnancy, by a health professional, for reasons related to pregnancy.
- ◆ **Deliveries attended by Skilled Health Attendant:** proportion of deliveries attended by skilled health attendants (excluding trained or untrained traditional birth attendants) is sometimes called “supervised deliveries.”. A *skilled health attendant* [skilled birth attendant] is an accredited health professional – such as a midwife, doctor or nurse – who has been trained in the skills needed to manage normal (uncomplicated) pregnancies, childbirth and the immediate postnatal period, and in the identification, management and referral of complications in women and newborns. This definition excludes Traditional Birth Attendants (TBAs), whether trained or not, from the category of skilled health workers.

- ◆ **Clean and safe Delivery:** proportion of deliveries attended by an HEW. This singles out the activities of the national HSEP program, in which clean and safe delivery services by HEWs is included as one of the activities. It is included in a separate category because it has not yet been well evaluated whether the skills they have and the extent of delivery care they could provide is up to the WHO definitions.
- ◆ **Caesarean Section Rate:** proportion of Caesarean sections among the total no of expected deliveries.
- ◆ **Abortion care:** number of safe abortion services provided as far as the law permits as a proportion of expected pregnancies.
- ◆ **Institutional Maternal Death:** proportion of maternal deaths from all deliveries attended in the given institution. It is death of a woman from conditions caused by pregnancy, which occurs from time of conception to six weeks postpartum, but not from incidental or accidental causes. The cause of death could be direct – abortion, hemorrhage, hypertension, obstructed labor or sepsis; or could be indirect like heart disease aggravated by pregnancy, or malaria in pregnancy.
- ◆ **Postnatal care (PNC) coverage:** proportion of women who seek care, at least once during postpartum (42 days after delivery), from a skilled health attendant, including HEWs, for reasons relating to post-partum.
- ◆ **Stillbirth Rate:** proportion of stillbirths from total births attended by skilled health attendants.
- ◆ **Institutional Early Neonatal Death Rate:** proportion of deaths within the first week of life from total births attended by skilled health attendants in the facility.

## 4.1 Contraceptive Acceptance Rate (CAR) by Region (2002 EFY)

Regions	Number of non pregnant women of reproductive age (15-49 years)	Number of new and repeat acceptors	Contraceptive Acceptance Rate (CAR)
Tigray	915,301	722,756	79.0
Afar	296,739	40,177	13.5
Amhara	3,662,982	2,697,500	73.6
Oromia	5,444,641	3,355,808	61.6
Somali	934,924	80,102	8.6
Ben-Gumuz	149,543	57,737	38.6
SNNPR	2,950,119	2,236,839	75.8
Gambella	78,942	10,383	13.2
Harari	44,951	14,301	31.8
Addis Ababa	941,353	295,729	31.4
Dire Dawa	88,974	79,094	88.9
<b>National</b>	<b>15,508,468</b>	<b>9,594,993</b>	<b>61.9</b>

Figure 2: Trends in Contraceptive Acceptance Rate (EFY 1998-2002)



## 4.2 Amount of Contraceptives Distributed by FMOH &amp; NGO (EFY 2002)

Contraceptive by type	Unit	MOH	DKT	IFHP	FGAE	Total	CYP
Microgynon	cycle	332,760		1,313,770	128,836	1,775,366	118,950
Rosel blue lady	cycle				131,893	131,893	8,837
Excluton	cycle				5,268	5,268	353
Nordette	cycle				654	654	44
ORAL-CON	cycle		1,941,334		64,755	2,006,089	134,408
LO-FEMENAL	cycle			411,984	72,382	484,366	32,453
postioner	cycle				14,329	14,329	960
levonorgestrol	cycle	194,160				194,160	13,009
Hyan	cycle		955,458			955,458	64,016
Trigestrel	cycle		222,885			222,885	14,933
Overitte	cycle			120,070		120,070	8,045
<b>Total pills</b>		<b>526,920</b>	<b>3,119,677</b>	<b>1,845,824</b>	<b>418,117</b>	<b>5,910,538</b>	<b>396,006</b>
Depo-Provera	vial	4,851,300		1,706,850	147,827	6,705,977	1,676,494
Norestrat	vial				350	350	88
Confidence	vial		2,286,597		12,330	2,298,927	574,732
<b>Total injectable</b>		<b>4,851,300</b>	<b>2,286,597</b>	<b>1,706,850</b>	<b>160,507</b>	<b>9,005,254</b>	<b>2,251,314</b>
Implant	Pcs	40,038	69,547		5,189	114,774	401,709
Implanon	Pcs	678,754				678,754	1,357,508
Norplant	set				4	4	14
Jadelle	Pcs	4,250		104,310	3,942	112,502	393,757
IUD	Pcs	65	39,586	8,493		48,144	168,504
Cu-T380	Pcs				2,193	2,193	7,676
Trust implant	Pcs				923	923	3,231
<b>Total implant</b>		<b>723,107</b>	<b>109,133</b>	<b>112,803</b>	<b>12,251</b>	<b>957,294</b>	<b>3,350,529</b>
Male Condom	Pcs		76,488,997	8,458,400	6,853,098	91,800,495	734,404
Female condom	Pcs		122,386		3,922	126,308	1,010
<b>Total condom</b>		<b>0</b>	<b>76,611,383</b>	<b>8,458,400</b>	<b>6,857,020</b>	<b>91,926,803</b>	<b>735,414</b>
Emergency OC	Pcs		677,200			677,200	33,860
MVA	Pcs		4,967		4,392	9,359	627,053
Misoprostol	Pcs		43,365			43,365	
<b>Total Miscellaneous</b>		<b>0</b>	<b>725,532</b>	<b>0</b>	<b>4,392</b>	<b>729,924</b>	<b>660,913</b>
<b>Total</b>							<b>7,394,176</b>

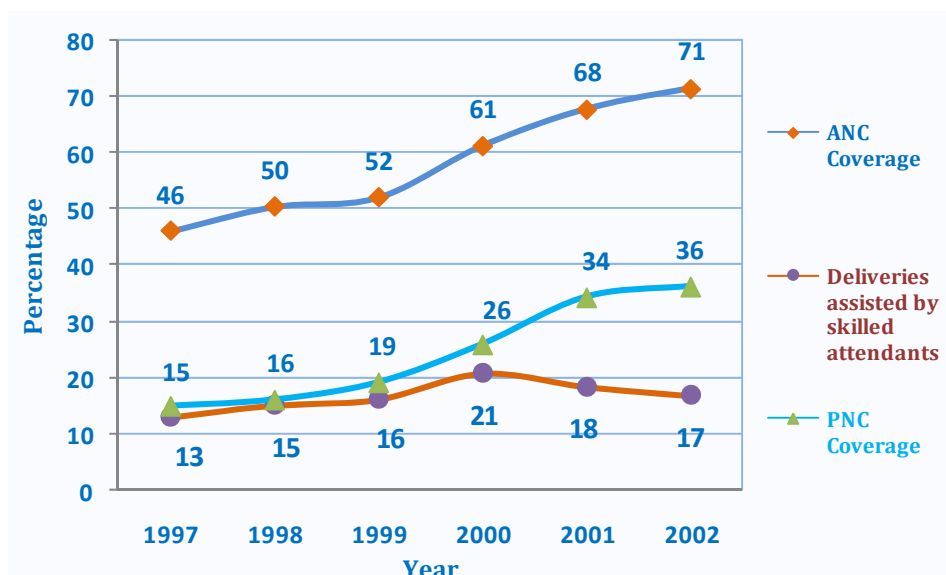
## 4.3 Distribution of Contraceptives by FMOH to Regions (EFY 2002)

Regions	Implanon (PCS)	Implant (Pcs)	Depo-Provera (Vial)	IUD (Kit)	Microgynon (Cycle)	Jadelle (Pcs)
Tigray	19,786	0	245,000	0	0	0
Afar	0	0	80,000	0	0	0
Amhara	152,896	0	2,689,000	0	227,520	0
Oromia	231,680	8,896	1,258,900	0	23,760	0
Somali	16,000	0	0	0	0	450
Ben-Gumuz	0	6,400	143,400	0	16,560	0
SNNPR	106,752	0	0	0	0	1,200
Gambella	0	0	0	0	0	0
Harari	264	0	12,400	0	0	0
Addis Ababa	0	3,968	360,600	65	840	0
Dire Dawa	1,360	2,304	12,000	0	0	0
Police	0	0	0	0	0	0
Defence	0	0	1,000	0	1,440	0
NGO	149,888	18,470	48,000	0	57,600	2,600
Central	0	0	0	0	0	0
Black Lion	128	0	1,000	0	5,040	0
<b>National</b>	<b>678,754</b>	<b>40,038</b>	<b>4,851,300</b>	<b>65</b>	<b>332,760</b>	<b>4,250</b>

## 4.4 ANC, Deliveries attended by Skilled Attendant, by HEW and PNC Coverage by Region (EFY 2002)

Regions	Total Number of expected Pregnancy	Antenatal care Coverage		Deliveries Attended by Skilled Attendant		Deliveries Attended by HEWs		Postnatal Care Coverage	
		Number	Coverage	Number	Coverage	Number	Coverage	Number	Coverage
<b>Tigray</b>	176,555	128,368	72.7	44,463	25.2	21,790	12.3	107,672	61.0
<b>Afar</b>	46,695	11,825	25.3	6,028	12.9	237	0.5	4,416	9.5
<b>Amhara</b>	681,057	449,818	66.0	99,284	14.6	69,650	10.2	257,823	37.9
<b>Oromia</b>	1,124,437	827,080	73.6	202,422	18.0	152,703	13.6	382,814	34.0
<b>Somali</b>	163,012	91,566	56.2	21,267	13.0	1,486	0.9	8,459	5.2
<b>Ben-Gumuz</b>	27,123	14,502	53.5	1,543	5.7	2,185	8.1	5,721	21.1
<b>SNNPR</b>	639,192	497,175	77.8	65,540	10.3	253,735	39.7	266,461	41.7
<b>Gambella</b>	11,426	3,578	31.3	1,226	10.7	46	0.4	339	3.0
<b>Harari</b>	6,733	5,455	81.0	3,572	53.1	100	1.5	2,341	34.8
<b>Addis Ababa</b>	69,946	72,856	104.2	42,593	60.9	0	0.0	27,792	39.7
<b>Dire Dawa</b>	12,922	8,032	62.2	3,736	28.9	146	1.1	5,496	42.5
<b>National</b>	<b>2,959,098</b>	<b>2,113,669</b>	<b>71.4</b>	<b>497,328</b>	<b>16.8</b>	<b>502,078</b>	<b>17.0</b>	<b>1,071,435</b>	<b>36.2</b>

**Figure 3: Trend in ANC, Deliveries attended by Skilled Attendant and PNC Coverage by Region (EFY 2002)**



#### 4.5 Abortion Care and Caesarian Section Rate by Region (EFY 2002)

Regions	Total Number of expected Pregnancy	Abortion Care		Caesarian Section Rate	
		Number	Percent	Number	Rate
Tigray	176,555	8,510	4.8	1,478	0.8
Afar	46,695	117	0.3	NA	NA
Amhara	681,057	6,979	1.0	1,262	0.2
Oromia	1,124,437	25,377	2.3	NA	NA
Somali	163,012	409	0.3	70	0.0
Ben-Gumuz	27,123	274	1.0	196	0.7
SNNPR	639,192	18,212	2.8	6,865	1.1
Gambella	11,426	230	2.0	57	0.5
Harari	6,733	863	12.8	746	11.1
Addis Ababa	69,946	2,994	4.3	2,896	4.1
Dire Dawa	12,922	2,273	17.6	389	3.0
<b>National</b>	<b>2,959,098</b>	<b>66,780</b>	<b>2.3</b>	<b>15,568</b>	<b>0.5</b>



## 4.6 Maternal and Child Institutional Death Rates by Region (EFY 2002)

Regions	Total Number of Deliveries in Health Institution	Maternal Deaths (Institutional)		Total Number of Births attended (Still and Live)	Stillbirth		Total no of Live Births attended	Neonatal Death (Institutional)	
		Number	Proportion		Number	Rate		Number	Rate
<b>Tigray</b>	44,463	91	0.2	33,413	832	2.5	32,581	168	0.5
<b>Afar</b>	6,028	NA	NA	NA	NA	NA	NA	NA	NA
<b>Amhara</b>	99,284	79	0.1	NA	NA	NA	NA	110	NA
<b>Oromia</b>	202,422	NA	NA	NA	NA	NA	NA	NA	NA
<b>Somali</b>	21,267	58	0.3	22,753	319	1.4	22,434	53	0.2
<b>Ben-Gumuz</b>	1,543	5	0.3	3,728	147	3.9	3,581	36	1.0
<b>SNNPR</b>	65,540	495	0.8	317,489	728	0.2	316,761	1,130	0.4
<b>Gambella</b>	1,226	2	0.2	1,272	28	2.2	1,244	4	0.3
<b>Harari</b>	3,572	26	0.7	3,681	345	9.4	3,336	14	0.4
<b>Addis Ababa</b>	42,593	7	0.0	NA	NA	NA	NA	807	NA
<b>Dire Dawa</b>	3,736	78	2.1	4,072	191	4.7	3,881	154	4.0
<b>Federal Hosp</b>	5,654	14	0.2	5,701	191	3.4	5,419	33	0.6
<b>National</b>	<b>497,328</b>	<b>855</b>	<b>0.2</b>	<b>392,109</b>	<b>2,872</b>	<b>0.7</b>	<b>389,237</b>	<b>2,509</b>	<b>0.6</b>

Remark: Total Live birth and stillbirth is less than total institutional delivery as Afar, Amhara, Oromia and Addis Ababa data is not included

## V. CHILD HEALTH

Indicators of child health include:

- ◆ **Proportion of Low birth weight (LBW):** percentage of live born babies who weigh less than 2500g.
- ◆ **Proportion of moderate/severe malnutrition:** percentage of weights reflecting moderate/severe malnutrition amongst weights-for-age recorded for children under 3 years of age.
- ◆ **IMNCI Implementation:** proportion of facilities that implement IMNCI, disaggregated by facility type.
- ◆ **Pentavalent first dose (DPT1-HepB1-Hib1) immunization coverage:** proportion of surviving infants who receive a first dose of pentavalent vaccine against DPT, HepB, and Hib before their first birthday.
- ◆ **Pentavalent third dose (DPT3-HepB3-Hib3) immunization coverage:** proportion of surviving infants who receive a third dose of pentavalent vaccine before their first birthday.
- ◆ **Measles immunization coverage:** proportion of surviving infants who receive a dose of measles vaccine before their first birthday.
- ◆ **Full immunization coverage:** proportion of surviving infants who receive all doses of infant antigens before their first birthday.
- ◆ **Protection at birth (PAB) against neonatal tetanus:** proportion of infants who were protected from neonatal tetanus (NNT) at birth by the immunization of their mothers with tetanus toxoid (TT) before the birth.

5.1 Proportion of Low Birth Weight by Region (EFY 2002)

Region	Total Number of Live Births Weighed	Number of Live Births Weighed < 2500 gm	Proportion of Low Birth Weight
Tigray	47,656	3,723	7.8
Afar	NA	NA	NA
Amhara	868	64	7.4
Oromia	NA	NA	NA
Somali	2,345	174	7.4
Ben-Gumuz	3,958	255	6.4
SNNPR	138,093	2,681	1.9
Gambella	1,093	74	6.8
Harari	4,226	735	17.4
Addis Ababa	13,203	1,619	12.3
Dire Dawa	4,805	1,130	23.5
<b>National</b>	<b>220,493</b>	<b>11,086</b>	<b>5.0</b>

5.2 Proportion of Moderate/Severe Malnutrition by Region (EFY 2002)

Region	Total Number of children under 3 years of age Weighed	No of weights reflecting recorded with moderate malnutrition	Proportion of Moderate Malnutrition	No of weights reflecting recorded with severe malnutrition	Proportion of Severe Malnutrition
Tigray	268,373	159,174	59.3	28,575	10.6
Afar	NA	NA	NA	NA	NA
Amhara	1,083,566	161,367	14.9	20,234	1.9
Oromia	1,202,637	NA	NA	NA	NA
Somali	39,285	7,866	20.0	983	2.5
Ben-Gumuz	18,616	7,123	38.3	846	4.5
SNNPR	NA	NA	NA	NA	NA
Gambella	3,389	704	20.8	413	12.2
Harari	13,291	4,564	34.3	288	2.2
Addis Ababa	32,375	7,210	22.3	810	2.5
Dire Dawa	13,048	1,953	15.0	821	6.3
<b>Federal</b>	<b>2,676,237</b>	<b>350,017</b>	<b>13.1</b>	<b>52,970</b>	<b>2.0</b>

### 5.3 Coverage of Under 5 children Receiving Vitamin A Supplementation by Region (EFY 2002)

Regions	Eligible	1st round(2002)		2nd round(2002)	
		Number	Coverage	Number	Coverage
Tigray	637,923	602,442	94.4	578,342	90.7
Afar	172,018	0	0.0	272,969	158.7
Amhara	2,370,814	2,577,968	108.7	817,114	34.5
Oromia	4,438,566	4,564,325	102.8	4,548,976	102.5
Somali	496,708	253,173	51.0	NA	NA
Ben- Gumuz	114,943	112,853	98.2	115,357	100.4
SNNPR	2,283,834	2,505,074	109.7	2,766,483	121.1
Gambella	49,339	52,843	107.1	NA	NA
Harari	26,871	28,456	105.9	NA	NA
Dire Dawa	45,115	38,629	85.6	NA	NA
<b>National</b>	<b>10,951,178</b>	<b>10,735,763</b>	<b>98.0</b>	<b>9,099,241</b>	<b>83.1</b>

### 5.4 Distribution of Coverage of U5 Children De-wormed by Region ( EFY 2002)

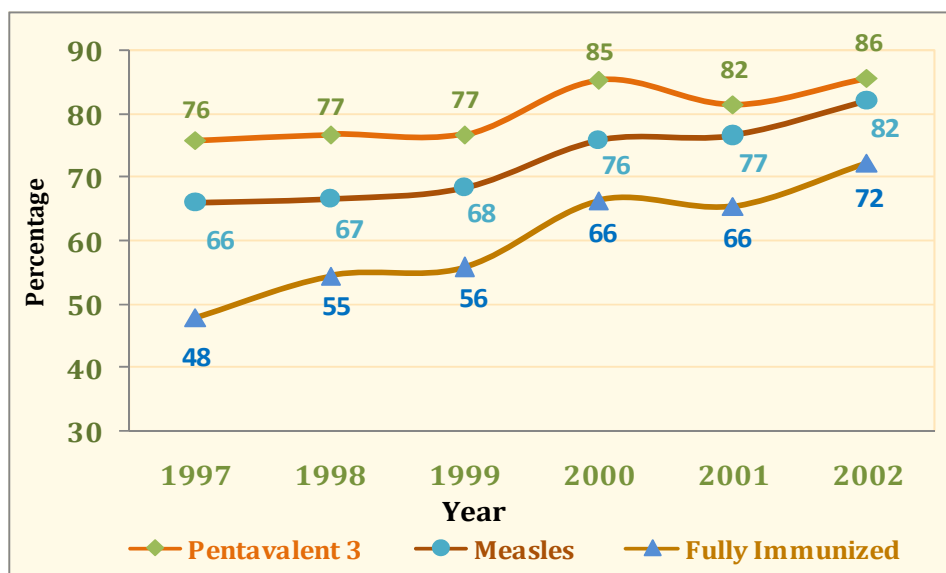
Regions	Eligible	1st Round(2002)		2nd Round(2002)	
		Number	Coverage	Number	Coverage
Tigray	427,915	406,239	94.9	256,866	60.0
Afar	113,725	0	0.0	172,107	151.3
Amhara	1,564,590	1,726,020	110.3	559,484	35.8
Oromia	3,172,095	3,023,417	95.3	3,255,376	102.6
Somali	383,558	167,646	43.7	NA	NA
Ben-Gumuz	76,311	73,049	95.7	77,420	101.5
SNNPR	1,708,780	1,635,460	95.7	2,017,290	118.1
Gambella	31,958	31,299	97.9	NA	NA
Harari	16,990	20,354	119.8	NA	NA
Dire Dawa	33,338	29,582	88.7	NA	NA
<b>National</b>	<b>7,658,658</b>	<b>7,113,066</b>	<b>92.9</b>	<b>6,338,543</b>	<b>82.8</b>

## 5.5 Immunization Coverage by Antigen and by Region (EFY 2002)

Regions	Surviving Infants	Pentavalent 1 Immunization Coverage		Pentavalent 3 Immunization Coverage		Measles Immunization coverage (< 1yr)		Full Immunization coverage (< 1yr)	
		Achieved	Coverage	Achieved	Coverage	Achieved	Coverage	Achieved	Coverage
Tigray	162,617	95,722	58.9	130,350	80.2	122,908	75.6	118,750	73.0
Afar	43,682	NA	NA	26,467	60.6	20,509	47.0	19,010	43.5
Amhara	607,429	519,400	85.5	487,907	80.3	479,744	79.0	417,983	68.8
Oromia	1,035,665	967,718	93.4	965,501	93.2	889,168	85.9	777,628	75.1
SNNPR	573,634	563,724	98.3	528,115	92.1	526,474	91.8	470,679	82.1
Ben-Gumuz	24,924	18,854	75.6	22,946	92.1	19,160	76.9	16,763	67.3
Gambella	10,387	4,147	39.9	7,255	69.8	7,503	72.2	5,013	48.3
Somali	153,423	102,473	66.8	78,977	51.5	89,112	58.1	58,277	38.0
Harari	6,139	6,348	103.4	5,433	88.5	4,373	71.2	4,079	66.4
Dire Dawa	12,552	8,748	69.7	7,710	61.4	7,215	57.5	7,209	57.4
Addis Ababa	64,117	12,852	20.0	54,601	85.2	53,889	84.0	50,102	78.1
<b>National</b>	<b>2,694,570</b>	<b>2,299,986</b>	<b>85.4</b>	<b>2,316,332</b>	<b>86.0</b>	<b>2,220,525</b>	<b>82.4</b>	<b>1,947,263</b>	<b>72.3</b>

*N.B Pentavalent 1 and Pentavalent 3 coverage is almost similar as Addis Ababa data is not complete and Afar data not included*

**Figure 4: Trend in DPT3/Pentavalent 3, Measles and Fully Immunization Coverage (EFY 1998 - 2001)**



### 5.6 Distribution of Infants Protected from Neonatal Tetanus at Birth by Region (EFY 2002)

Region	Total Estimated Live Births	Number of Infants Whose Mothers had Protective Doses	proportion of Live Births Protected from Neonatal Tetanus*
Tigray	176,555	85,379	48.4
Afar	46,695	26,618	57.0
Amhara *	681,057	860,626	126.4
Oromia	1,124,437	863,684	76.8
Somali	163,012	72,043	44.2
Ben-Gum	27,123	13,760	50.7
SNNPR	639,192	547,863	85.7
Gambella	11,426	5,822	51.0
Harari	6,733	4,482	66.6
Addis Ababa	69,946	54,017	77.2
Dire Dawa	12,922	8,032	62.2
<b>National</b>	<b>2,959,098</b>	<b>2,542,843</b>	<b>85.9</b>

\*TT2+ for pregnant women taken as a proxy for PAB

### 5.7 Distribution of Health Centers Providing IMNCI by Region (EFY 2002)

Region	Cumulative No of HCs available at end of 2002 EFY	HCs that provided IMNCI in EFY 2001	Cumulative No of HCs providing IMNCI service at end of 2002 EFY	Proportion of HCs provide IM-NCI service
Tigray	170	99	119	70.0
Afar	28	13	11	39.3
Amhara	520	225	398	76.5
Oromia	825	252	367	44.5
Somali	35	13	13	37.1
Ben-Gum	29	14	15	51.7
SNNPR	463	269	289	62.4
Gambella	23	8	8	34.8
Harari	8	4	6	75.0
Dire Dawa	15	7	15	100.0
Addis Ababa	26	26	26	100.0
<b>National</b>	<b>2,142</b>	<b>930</b>	<b>1,267</b>	<b>59.2</b>



## VI. DISEASE PREVENTION & CONTROL

### 6.1 ALL DISEASES

Indicators of all diseases include:

◆ *Top 10 causes of morbidity:*

1. The ten leading causes of morbidity amongst children under 5 years of age
2. The ten leading causes of morbidity amongst persons 5 years of age and older

◆ *Top 10 causes of Mortality:*

1. The ten leading causes of mortality amongst children under 5 years of age
2. The ten leading causes of mortality amongst persons 5 years of age and older

◆ *Inpatient mortality rate: patient deaths before discharge per 100 patients admitted .*



## 6.1.1 TOP 10 Causes of Morbidity Top 10 Causes of Morbidity (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Malaria (Clinical Without Laboratory Confirmation)	1,156,297	9%
2	Pneumonia	861,643	7%
3	Acute upper respiratory infections	729,709	6%
4	Helminthiasis	614,778	5%
5	Malaria (confirmed with P. falciparum)	582,385	5%
6	Diseases of the musculoskeletal system and connective tissue	512,111	4%
7	Other or unspecified infectious and parasitic diseases	497,201	4%
8	Dyspepsia	480,809	4%
9	Diarrhoea (non-bloody)	442,700	3%
10	Other or unspecified diseases of the respiratory system	365,028	3%
<b>Total of leading causes</b>		<b>6,242,661</b>	<b>49%</b>
<b>Total of all causes</b>		<b>12,663,250</b>	<b>100%</b>

**N.B** 4% of all the cases are presented as other or unspecified diseases.

### Top 10 Causes of Morbidity for Females (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Malaria (Clinical Without Laboratory Confirmation)	536,231	8%
2	Pneumonia	405,609	6%
3	Acute upper respiratory infections	349,308	6%
4	Helminthiasis	293,685	5%
5	Malaria (confirmed with P. falciparum)	268,587	4%
6	Dyspepsia	258,785	4%
7	Other or unspecified infectious and parasitic diseases	249,931	4%
8	Diseases of the musculoskeletal system and connective tissue	243,136	4%
9	Diarrhoea (non-bloody)	207,326	3%
10	Other or unspecified disorders of the genitourinary system	189,603	3%
<b>Total of leading causes</b>		<b>3,002,201</b>	<b>48%</b>
<b>Total of all causes</b>		<b>6,311,512</b>	<b>100%</b>

**N.B** 5% of all the cases under female are presented as other or unspecified diseases.

### Top 10 Causes of Morbidity Amongst Children Under 5 years (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	308,901	15%
2	Malaria (Clinical without laboratory confirmation)	248,215	12%
3	Acute upper respiratory infections	178,201	9%
4	Diarrhoea (non-bloody)	175,964	8%
5	Malaria (confirmed with P. falciparum)	112,226	5%
6	Helminthiasis	100,260	5%
7	Diarrhea with blood (dysentery)	97,004	5%
8	Other or unspecified diseases of the respiratory system	92,282	4%
9	Other or unspecified infectious and parasitic diseases	82,581	4%
10	Malaria (confirmed with species other than P. falciparum)	62,102	3%
<b>Total of leading causes</b>		<b>1,457,736</b>	<b>70%</b>
<b>Total of all causes</b>		<b>2,088,822</b>	<b>100%</b>

**N.B** 4% of all the cases under 5 are presented as other or unspecified diseases.

\* This report doesn't include Tigray, Amhara 1st Quarter and Addis Ababa 1st, 2nd & 3rd Quarter OPD morbidity report

## 6.1.2 TOP 10 Causes of Admission

### Top 10 Causes of Admission (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	32,057	8%
2	Single spontaneous delivery	29,685	7%
3	Malaria (Clinical without laboratory confirmation)	20,112	5%
4	Malaria (Confirmed with P.falciparum)	18,275	4%
5	Violence and other intentional injury	18,029	4%
6	Other or unspecified disorders of the genitourinary system	13,746	3%
7	Other causes of abnormal pregnancy, childbirth and puerperium	13,288	3%
8	Dyspepsia	12,681	3%
9	Helminthiasis	12,642	3%
10	Other or unspecified infectious and parasitic diseases	12,633	3%
<b>Total of leading causes admission</b>		<b>183,148</b>	<b>43%</b>
<b>Total of all causes of admission</b>		<b>424,139</b>	<b>100%</b>

**N.B** 4% of all the cases are presented as other or unspecified diseases.

### Top 10 Causes of Admission for Females (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Single spontaneous delivery	29,685	13%
2	Pneumonia	13,590	6%
3	Other causes of abnormal pregnancy, childbirth and puerperium	13,288	6%
4	Malaria (clinical without laboratory confirmation)	9,665	4%
5	Malaria (confirmed with P. falciparum)	9,228	4%
6	Other or unspecified disorders of the genitourinary system	7,299	3%
7	Other or unspecified obstetric conditions	6,947	3%
8	Violence and other intentional injury	6,712	3%
9	Dyspepsia	6,679	3%
10	Other or unspecified infectious and parasitic diseases	6,193	3%
<b>Total of leading causes admission</b>		<b>109,286</b>	<b>47%</b>
<b>Total of all causes of admission</b>		<b>234,091</b>	<b>100%</b>

**N.B** 3% of all the cases are presented as other or unspecified diseases.

### Top 10 Causes of Admission Amongst Children Under 5 years (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	15,514	25%
2	Diarrhoea (non-bloody)	4,602	8%
3	Malaria (clinical without laboratory confirmation)	4,491	7%
4	Malaria (confirmed with P.falciparum)	4,349	7%
5	Diarrhea with blood (dysentery)	2,626	4%
6	Acute upper respiratory infections	2,099	3%
7	Diarrhea with dehydration	2,095	3%
8	Malaria (confirmed with species other than P. falciparum)	1,708	3%
9	Helminthiasis	1,431	2%
10	Other or unspecified infectious and parasitic diseases	1,362	2%
<b>Total of leading causes admission</b>		<b>40,277</b>	<b>66%</b>
<b>Total of all causes of admission</b>		<b>61,196</b>	<b>100%</b>

\* This report doesn't include Tigray, Afar, Amhara 1st Quarter, and Addis Ababa 1st, 2nd & 3rd Quarter IPD morbidity report

## 6.1.3 TOP 10 Causes of Mortality

### Top 10 Causes of Mortality (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	1,043	9%
2	Tuberculosis	792	7%
3	Violence and other intentional injury	451	4%
4	Other or unspecified effects of external causes	412	3%
5	Human immunodeficiency virus [HIV] disease	380	3%
6	Other or unspecified obstetric conditions	373	3%
7	Hypertension and related diseases	354	3%
8	Other or unspecified infectious and parasitic diseases	328	3%
9	Peptic ulcer disease	323	3%
10	Diarrhoea (non-bloody)	318	3%
<b>Total of leading causes IPD death</b>		<b>4,774</b>	<b>40%</b>
<b>Total of all causes of IPD death</b>		<b>11,913</b>	<b>100%</b>

### Top 10 Causes of Mortality for Females (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	470	8%
2	Other or unspecified obstetric conditions	370	6%
3	Tuberculosis	323	5%
4	Other or unspecified effects of external causes	257	4%
5	Violence and other intentional injury	255	4%
6	Human immunodeficiency virus [HIV] disease	211	4%
7	Hypertension and related diseases	179	3%
8	Road traffic injuries	159	3%
9	AIDS	158	3%
10	Other or unspecified infectious and parasitic diseases	158	3%
<b>Total of leading causes IPD death</b>		<b>2,540</b>	<b>42%</b>
<b>Total of all causes of IPD death</b>		<b>5,984</b>	<b>100%</b>

### Top 10 Causes of Mortality Amongst Children Under 5 years (EFY, 2002)\*

Rank	Diagnosis	Case	%
1	Pneumonia	425	18%
2	Other or unspecified perinatal diseases	118	5%
3	Low birth weight of newborn	113	5%
4	Diarrhoea (non-bloody)	111	5%
5	Prematurity	100	4%
6	Tuberculosis	92	4%
7	Severe acute malnutrition	74	3%
8	Malaria (clinical without laboratory confirmation)	67	3%
9	Diarrhea with blood (dysentery)	63	3%
10	Neonatal sepsis	61	3%
<b>Total of leading causes IPD death</b>		<b>1,224</b>	<b>51%</b>
<b>Total of all causes of IPD death</b>		<b>2,409</b>	<b>100%</b>

\* This report doesn't include Tigray, Afar, SNNPR, Amhara 1st Quarter, and Addis Ababa 1st, 2nd & 3rd Quarter IPD mortality report

## 6.2 MALARIA

Malaria indicators include:

- ◆ ***Morbidity attributed to malaria:***
  - a. New malaria cases amongst children under 5 years of age
  - b. New malaria cases amongst persons 5 years of age and older
- ◆ ***HHs with at least one insecticide-treated nets (ITN): proportion of households*** in malarious area **with at least one LLINs.**
- ◆ ***Integrated residual spraying of houses:*** proportion of households in malarious area that were sprayed in the last 12 months
- ◆ ***Malaria case fatality rate [inpatients] :***
  1. Deaths in the facility of children who are under 5 years of age attributed to malaria per 100 admissions of children under 5 years of age with a diagnosis of malaria
  2. Deaths in the facility of persons 5 years of age and older attributed to malaria per 100 admissions of persons 5 years of age and older with a diagnosis of malaria.

6.2.1 Malaria Cases By Parasitic Species (EFY 2002)

Regions	Total Malaria Cases	Total Examined	Total Positive	PF	PV	Malaria Admission
Tigray	157,966	98,639	30,542	21,447	9,095	1,590
Afar	8,576	NA	7,765	1,911	5,854	0
Amhara	287,291	135,240	62,054	42,227	19,827	1,535
Oromia	160,191	66,219	64,605	32,372	32,233	1,154
Somali	NA	NA	NA	NA	NA	NA
B-Gumuz	2,846	1,191	1,048	908	140	129
SNNPR	209,805	159,270	89,498	56,234	33,264	2,896
Gambella	20	0	24	3	21	0
Harari	671	253	113	86	27	2
Addis Ababa	1,028	1,811	838	342	496	19
Dire Dawa	21	0	0	0	0	1
National	828,415	462,623	256,487	155,530	100,957	7,326

6.2.2 ITN Distribution and IRS spray by Region (EFY 2002)

Regions	Total No HHs in the Malarious area of the woreda during the year	IRS Spray		ITN Distribution	
		No of HH sprayed during the year	%	No of HHs with at least one LLINs	%
Tigray	762,731	129,621	17.0	212,822	27.9
Afar	266,542	54,104	20.3	283,611	106.4
Amhara	2,345,745	915,451	39.0	4,200,000	179.0
Oromia	3,561,506	2,987,224	83.9	2,584,598	72.6
SNNPR	2,279,689	1,537,660	67.5	1,531,983	67.2
Ben-Gum	153,820	94,711	61.6	132,166	85.9
Gambella	71,861	2,015	2.8	3,671	5.1
Somali	655,091	71,200	10.9	321,192	49.0
Harari	46,887	14,305	30.5	24,612	52.5
Dire Dawa	31,226	12,722	40.7	10,861	34.8
Addis Ababa	0	0	0.0	0	0.0
National	10,175,098	5,819,013	57.2	9,305,516	91.5

## 6.3 TUBERCULOSIS & LEPROSY

Indicators of TB and Leprosy include:

- ◆ ***Tuberculosis (TB) case detection rate:*** number of new smear positive TB cases detected , among the new smear-positive TB cases estimated to occur countrywide.
- ◆ ***TB treatment success rate:*** percentage of a cohort of new smear positive TB cases registered in a specified period that successfully completed treatment. Successful completion entails clinical success with or without bacteriological evidence of cure.
- ◆ ***TB cure rate:*** percentage of a cohort of new smear-positive TB cases registered in a specified period that was cured as demonstrated by bacteriologic evidence (a negative sputum smear result recorded during the last month of treatment and on at least on one previous occasion during treatment).
- ◆ ***TB defaulter rate:*** percentage of a cohort of new smear-positive TB cases registered in a specified period that interrupted treatment for more than 2 consecutive months.
- ◆ ***TB death rate:*** percentage of a cohort of new smear-positive TB cases registered in a specified period that died during treatment, irrespective of the cause.
- ◆ ***New Cases of Leprosy:*** number of new cases of leprosy, both MB and PB, never treated before and registered during the specified period of time.
- ◆ ***Grade II disability rate among new cases of leprosy:*** proportion of new cases of leprosy with disability grade II at the time of diagnosis
- ◆ ***Leprosy treatment completion rate:*** percentage of a cohort of PB/MB leprosy cases registered in a specified period that successfully completed treatment.

## 6.3.1 Tuberculosis Case Findings (EFY 2002)

Regions	New smear Positive PTB			New smear Negative PTB		New Extra-pulmonary TB		Total New Cases	Retreatment Cases			All TB cases		
	M	F	Total	% *	Cases	% **	Cases		% ***	Retreat-ment Cases	F		D	%@
Tigray	1,234	878	2,112	19.5	4,241	39.2	4,459	41.2	10,812	229	36	21	2.1	11,098
Afar	448	313	761	29.7	1,007	39.3	793	31.0	2,561	28	13	67	1.0	2,669
Amhara	4,264	3,468	7,732	22.9	11,026	32.7	14,970	44.4	33,728	415	86	49	1.2	34,278
Oromia	10,622	8,343	18,965	35.1	18,047	33.4	16,968	31.4	53,980	943	210	446	1.7	55,579
Somali	876	502	1,378	31.2	1,840	41.6	1,204	27.2	4,422	111	25	24	2.4	4,582
Ben-Gumuz	309	259	568	37.8	447	29.8	487	32.4	1,502	3	2	0	0.2	1,507
SNNPR	5,936	4,598	10,534	45.6	8,270	35.8	4,296	18.6	23,100	444	87	130	1.9	23,761
Gambella	174	185	359	39.3	291	31.8	264	28.9	914	0	0	0	0.0	914
Harari	381	329	710	32.1	942	42.6	560	25.3	2,212	0	0	0	0.0	2,212
Addis Ababa	1,427	1,171	2,598	21.1	5,099	41.5	4,594	37.4	12,291	348	18	29	2.7	12,686
Dire Dawa	294	199	493	27.7	656	36.9	631	35.4	1,780	0	0	0	0.0	1,780
Other Hosp.	147	62	209	15.1	305	22.0	872	62.9	1,386	19	4	6	1.3	1,415
<b>National</b>	<b>26,112</b>	<b>20,307</b>	<b>46,419</b>	<b>31.2</b>	<b>52,171</b>	<b>35.1</b>	<b>50,098</b>	<b>33.7</b>	<b>148,688</b>	<b>2,540</b>	<b>481</b>	<b>772</b>	<b>1.7</b>	<b>152,481</b>

\* Proportion of new smear positive PTB among new cases

\*\* Proportion of new smear negative PTB among all new cases

Note: F: Failed, D: Died, TO: Transfer Out

 \*\*\* Proportion of new EPTB among all new cases  
 @ Proportion of retreatment cases among all TB cases

6.3.2 Tuberculosis Results of Treatment (EFY 2002)

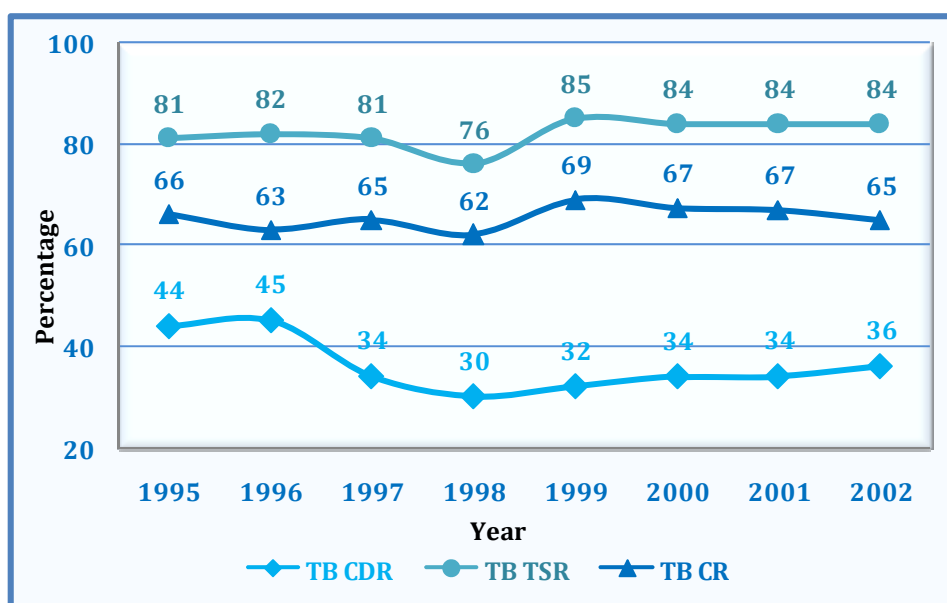
Regions	Classification	Evaluated		Cure rate		Treatment Completed	Treatment Success		Died		Failure		Defaulted		Transfer out	
		Cases	%	Cases	%		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Tigray	PTB pos	1,911	78.5	1,534	86.0	146	1,680	86.0	82	4.2	20	1.0	38	1.9	91	4.7
	Re-treat	192	54.2	96	85.9	56	152	85.9	21	11.9	3	1.7	8	4.5	8	4.5
Afar	PTB pos	1,501	29.8	439	92.0	915	1,354	92.0	29	2.0	22	1.5	59	4.0	37	2.5
	Re-treat	114	17.3	23	52.6	47	70	52.6	14	10.5	1	0.8	14	10.5	15	11.3
Amhara	PTB pos	7,268	69.2	5,086	84.8	1,146	6,232	84.8	257	3.5	57	0.8	204	2.8	518	7.1
	Re-treat	429	48.5	243	67.5	95	338	67.5	29	5.8	17	3.4	13	2.6	32	6.4
Oromia	PTB pos	16,692	69.1	12,138	85.5	2,879	15,017	85.5	437	2.5	79	0.4	458	2.6	701	4.0
	Re-treat	959	69.6	660	91.4	206	866	91.4	28	3.0	11	1.2	20	2.1	34	3.6
Somali	PTB pos	1,263	71.4	1,067	75.7	64	1,131	75.7	40	2.7	6	0.4	36	2.4	50	3.3
	Re-treat	109	52.3	91	52.9	1	92	52.9	7	4.0	2	1.1	2	1.1	6	3.4
Ben-Gumuz	PTB pos	437	72.7	333	85.2	57	390	85.2	18	3.9	0	0.0	11	2.4	18	3.9
	Re-treat	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SNNPR	PTB pos	9,816	59.7	6,223	84.4	2,578	8,801	84.4	235	2.3	79	0.8	322	3.1	379	3.6
	Re-treat	445	31.4	166	63.4	169	335	63.4	21	4.0	5	0.9	14	2.7	70	13.3
Gambella	PTB pos	297	51.9	154	93.9	125	279	93.9	4	0.2	0	0.0	9	0.5	5	0.3
	Re-treat	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Harari	PTB pos	200	51.3	137	69.7	49	186	69.7	7	2.6	0	0.0	7	2.6	0	0.0
	Re-treat	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Addis Ababa	PTB pos	2,543	65.6	1,787	78.8	361	2,148	78.8	112	4.1	23	0.8	103	3.8	157	5.8
	Re-treat	186	24.5	95	32.3	30	125	32.3	23	1.2	6	0.3	14	0.7	18	0.9
Dire Dawa	PTB pos	461	63.2	312	82.8	97	409	82.8	14	2.8	8	1.6	30	6.1	0	0.0
	Re-treat	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Hospitals	PTB pos	33	4.9	15	8.9	12	27	8.9	0	0.0	0	0.0	1	0.1	5	0.3
	Re-treat	3	0.0	0	1.9	1	1	1.9	0	0.0	0	0.0	1	0.1	1	0.1
National	PTB pos	42,422	65.2	29,225	84.0	8,429	37,654	84.0	1,235	2.8	294	0.7	1,278	2.9	1,961	4.4
	Re-treat	2,437	46.7	1,374	67.3	605	1,979	67.3	143	4.9	45	1.5	86	2.9	184	6.3



## 6.3.3 Case Detection Rate of PTB+ by Region (EFY 2002)

Regions	Estimated No of New Sputum Smear Positive TB Cases	No of new Sputum Smear Positive TB Cases Detected	Case Detection Rate
Tigray	7,573	2,112	27.9
Afar	2,455	761	31.0
Amhara	29,514	7,732	26.2
Oromia	48,232	18,965	39.3
Somali	7,815	1,378	17.6
Ben-Gumuz	1,195	568	47.5
SNNPR	26,715	10,534	39.4
Gambella	564	359	63.6
Harari	323	710	220.0
Addis Ababa	4,750	2,807	59.1
DireDawa	602	493	81.9
<b>National</b>	<b>129,740</b>	<b>46,419</b>	<b>35.8</b>

**Figure 5: Trend in TB Case Detection, Treatment Success and Cure Rates (EFY 1995 - 2002 )**



6.3.4 Leprosy Case finding by Region (EFY 2002)

Regions	New cases			Relapses			Defaulters			Others			Total			
	PB	MB	Total	% *	PB	MB	Total	PB	MB	Total	PB	MB	Total	PB	MB	Total
Tigray	10	68	78	87.2	0	14	14	0	15	15	0	0	0	10	97	107
Afar	26	57	83	68.7	0	0	0	0	0	0	0	0	0	26	57	83
Amhara	123	1,207	1,330	90.8	12	124	136	5	99	104	4	20	24	144	1,450	1,594
Oromiya	173	2,112	2,285	92.4	5	141	146	0	65	65	0	27	27	178	2,345	2,523
Somali	3	12	15	80.0	1	1	2	0	1	1	0	23	23	4	37	41
Benshangul	15	56	71	78.9	0	0	0	0	3	3	0	0	0	15	59	74
SNNPR	23	199	222	89.6	10	33	43	0	35	35	1	8	9	34	275	309
Gambella	0	0	107	39.0	0	0	0	0	0	0	0	0	0	0	0	107
Hareri	0	0	6	0.0	0	0	0	0	0	0	0	0	0	0	0	6
Addis Ababa	3	43	46	93.5	2	8	10	0	1	1	0	2	2	5	54	59
Dire Dawa	0	0	17	0.0	0	0	0	0	0	0	0	0	0	0	0	17
Other Hospitals	2	168	170	98.8	0	6	6	0	1	1	0	206	206	2	381	383
<b>National</b>	<b>378</b>	<b>3,922</b>	<b>4,430</b>	<b>88.5</b>	<b>30</b>	<b>327</b>	<b>357</b>	<b>5</b>	<b>220</b>	<b>225</b>	<b>5</b>	<b>286</b>	<b>291</b>	<b>418</b>	<b>4,755</b>	<b>5,303</b>

\* Proportion of MB forms among new leprosy cases

6.3.5 Leprosy in Children and Disability Rate by Region (EFY 2002)

Regions	New: 0 -14 yrs				New (Gr: 1)				New (Gr: 2)				Gr: unknown			
	PB	MB	Tot.	%*	PB	MB	Tot.	%**	PB	MB	Tot.	%***	PB	MB	Tot.	%****
Tigray	3	0	3	3.8	0	18	18	23.1	0	7	7	9.0	0	1	1	1.3
Afar	5	9	14	16.9	14	31	45	54.2	0	6	6	7.2	4	7	11	13.3
Amhara	7	43	50	3.8	26	232	258	19.4	5	154	159	12.0	4	52	56	4.2
Oromia	29	157	186	8.1	39	449	488	21.4	13	106	119	5.2	2	65	67	2.9
Somali	1	0	1	6.7	1	1	2	13.3	1	6	7	46.7	0	0	0	0.0
Ben_Gumuz	1	9	10	14.1	6	20	26	36.6	0	6	6	8.5	0	0	0	0.0
SNNPR	8	29	37	16.7	8	63	71	32.0	2	21	23	10.4	0	14	14	6.3
Gambella	0	0	2	1.9	0	0	0	0.0	0	0	14	13.1	0	0	0	0.0
Hareri	0	0	1	16.7	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0
Addis Ababa	0	1	1	2.2	0	11	11	23.9	0	1	1	2.2	0	0	0	0.0
Dire Dawa	0	0	0	0.0	0	0	0	0.0	0	0	6	35.3	0	0	0	0.0
Other Hospitals	1	26	27	15.9	0	65	65	38.2	0	29	29	17.1	1	20	21	12.4
National	55	274	332	7.5	94	890	984	22.2	21	336	377	8.5	11	159	170	3.8

\* Proportion of children among new leprosy cases

\*\* Proportion of grade 1 among new leprosy cases

\*\*\* Proportion of grade 2 among new leprosy cases

\*\*\*\* Disability grade unknown

6.3.6 Leprosy (MDT) Result of Treatment by Regions (EFY 2002)

Regions	Classification	No of patients Registered	Evaluated		Treatment completed		Died		Default		Transfer out	
			Number	%	Number	%	Number	%	Number	%	Number	%
Tigray	MB	94	66	70.2	56	59.6	0	0.0	3	3.2	7	7.4
	PB	8	7	87.5	7	87.5	0	0.0	0	0.0	0	0.0
Afar	MB	20	8	40.0	4	20.0	0	0.0	3	15.0	1	5.0
	PB	18	7	38.9	3	16.7	0	0.0	2	11.1	2	11.1
Amhara	MB	1,568	1,519	96.9	1364	87.0	8	0.5	100	6.4	47	3.0
	PB	160	171	106.9	158	98.8	1	0.6	5	3.1	7	4.4
Oromia	MB	2,407	2,345	97.4	2046	85.0	23	1.0	179	7.4	97	4.0
	PB	203	167	82.3	163	80.3	2	1.0	1	0.5	1	0.5
Somali	MB	35	18	51.4	17	48.6	0	0.0	1	2.9	0	0.0
	PB	1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ben_Gumuz	MB	38	36	94.7	32	84.2	0	0.0	4	10.5	0	0.0
	PB	4	4	100.0	0	0.0	0	0.0	0	0.0	0	0.0
SNNPR	MB	220	239	108.6	196	89.1	5	2.3	29	13.2	9	4.1
	PB	96	43	44.8	36	37.5	1	1.0	6	6.3	0	0.0
Gambella	MB	35	30	85.7	30	85.7	0	0.0	0	0.0	0	0.0
	PB	4	3	75.0	3	75.0	0	0.0	0	0.0	0	0.0
Hareri	MB	7	6	85.7	6	85.7	0	0.0	0	0.0	0	0.0
	PB	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Addis Ababa	MB	76	70	92.1	64	84.2	1	1.3	4	5.3	1	1.3
	PB	7	9	128.6	0	0.0	0	0.0	0	0.0	0	0.0
Dire Dawa	MB	2	13	650.0	13	650.0	0	0.0	0	0.0	0	0.0
	PB	1	3	300.0	3	300.0	0	0.0	0	0.0	0	0.0
TOTAL	MB	4,502	4,350	96.6	3,828	85.0	37	0.8	323	7.2	162	3.6
	PB	502	414	82.5	373	74.3	4	0.8	14	2.8	10	2.0



## 6.4 HIV/AIDS

Indicators of HIV/AIDS include:

### 1. VCT

- ◆ **Health Facilities Providing VCT Service:** number and proportion of facilities, by type, that provide VCT services
- ◆ **HCT testing rate:** proportion of individuals counseling who received HIV testing.
- ◆ **HCT positivity rate:** proportion of individuals tested who were HIV positive.

### 2. PMTCT

- ◆ **Health Facilities Providing PMTCT Service:** number and proportion of facilities, by type, that provide integrated MCH/PMTCT services.
- ◆ **PMTCT antenatal coverage:** proportion of pregnant women who attend a facility that provides PMTCT services for at least one ANC visit.
- ◆ **PMTCT testing rate:** proportion of pregnant women who receive ANC at PMTCT site who receive testing for HIV.
- ◆ **PMTCT positivity rate:** proportion of pregnant women who receive ANC and testing for HIV at PMTCT site who are positive for HIV.
- ◆ **PMTCT delivery coverage:** proportion of deliveries of HIV+ women that receive a full course of ARV prophylaxis (“full course” means that both mother and newborn receive prophylaxis).

### 3. ART

- ◆ **Health Facilities Providing ART Service:** number and proportion of facilities, by type, that provide ART services
- ◆ **Cumulative HIV care enrollment:** cumulative number of People Living with HIV/AIDS (PLWHA) ever enrolled in HIV care.
- ◆ **Cumulative ART care enrollment:** cumulative number of PLWHA ever started on ART.

## 6.4.1 HIV Prevalence Rate (EFY 2002)

Regions	PLWHA			HIV Prevalence			New HIV Infection			Adult HIV Incidence	Total AIDS orphans	Annual death
	Male	Female	Total	Male	Female	Total	All ages	Children				
<b>Tigray</b>	36,630	53,298	89,887	2.5	3.7	3.1	10,287	1,110	0.35	43,899	1,803	
<b>Afar</b>	8,515	12,081	20,606	1.8	2.7	2.2	2,501	227	0.28	11,251	478	
<b>Amhara</b>	155,694	223,372	379,096	2.3	3.5	2.9	42,543	5,029	0.34	318,220	9,739	
<b>Oromia</b>	118,228	169,011	287,301	1.3	1.9	1.6	30,644	3,861	0.17	194,485	6,854	
<b>Somali</b>	10,906	15,629	26,538	0.7	1	0.9	3,006	314	0.1	21,015	604	
<b>Ben-Gumuz</b>	3,725	5,377	9,100	1.7	2.6	2.2	1,092	125	0.26	4,231	203	
<b>SNNPR</b>	69,728	99,953	169,700	1.4	2	1.7	21,820	2,456	0.23	115,926	3,908	
<b>Gambella</b>	1,798	2,559	4,359	1.9	2.8	2.4	347	46	0.19	2,195	111	
<b>Harari</b>	2,148	3,063	5,212	3	4.5	3.8	588	32	0.52	2,607	104	
<b>Addis Ababa</b>	85,780	124,609	210,306	7.3	11	9.2	22,926	967	1.52	83,633	3,977	
<b>Dire Dawa</b>	6,086	8,714	14,802	3.9	5.8	4.9	1,740	109	0.68	6,723	291	
<b>National</b>	<b>499,239</b>	<b>717,669</b>	<b>1,216,908</b>	<b>1.9</b>	<b>2.9</b>	<b>2.4</b>	<b>137,494</b>	<b>14,276</b>	<b>0.29</b>	<b>804,184</b>	<b>18,073</b>	

Source: Single point HIV prevalence estimate, 2007

### 6.4.2 HIV/AIDS Counseling and Testing (HCT) by Region (EFY 2002)

Regions	No of individuals tested for HIV	No of individuals tested positive for HIV	% HIV positive individuals
Tigray	947,073	17,139	1.8
Afar	133,200	1,059	0.8
Amhara	3,121,232	49,618	1.6
Oromia	2,749,439	37,539	1.4
Somali	81,149	411	0.5
Ben-Gumuz	76,658	1,462	1.9
SNNPR	1,733,209	14,323	0.8
Gambella	27,172	1,831	6.7
Harari	54,128	862	1.6
Addis Ababa	243,791	15,588	6.4
Dire Dawa	94,921	1,469	1.5
Uniformed	183,646	1,706	0.9
<b>National</b>	<b>9,445,618</b>	<b>143,007</b>	<b>1.5</b>

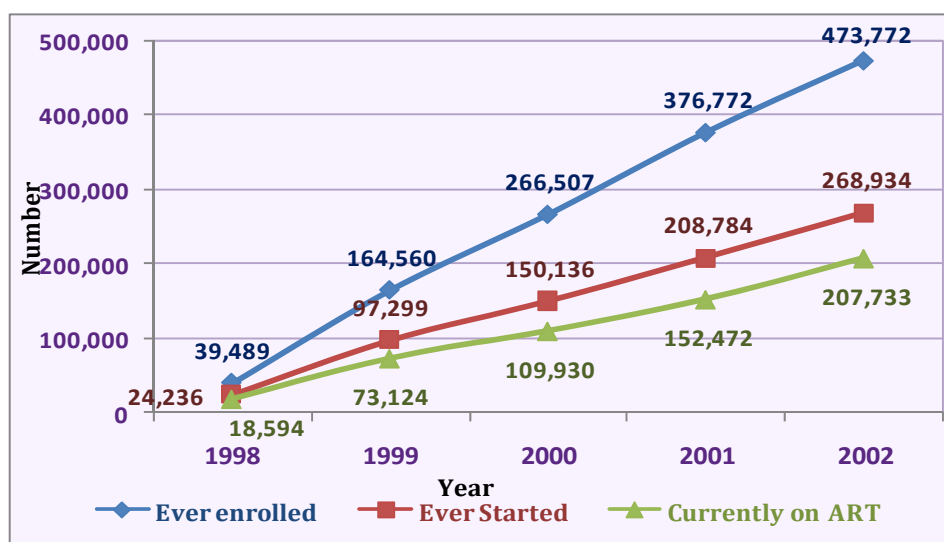
Source: Federal HIV/AIDS Prevention and Control Office 2002 report

### 6.4.3 AIDS Patients Ever Enrolled, Ever Started and Currently on ART by Region (EFY 2002)

Regions	Ever Enrolled	Ever Started	Currently on ART
Tigray	43,507	24,382	17,712
Afar	4,409	2,835	2,101
Amhara	117,272	72,316	64,648
Oromia	113,741	56,229	41,938
Somali	4,588	2,978	2,064
Ben-Gumuz	4,363	2,244	2,244
SNNPR	42,723	21,689	16,683
Gambella	4,567	1,812	1,440
Harari	5,361	2,857	2,020
Addis Ababa	108,189	66,144	47,887
Dire Dawa	10,580	5,774	3,481
Uniformed	14,472	9,674	5,515
<b>National</b>	<b>473,772</b>	<b>268,934</b>	<b>207,733</b>



**Figure 6: Trend in Number of People Living with AIDS who Accessed Chronic HIV Care and ART (EFY, 1998 - 2002 )**



**6.4.4 Number of health Facilities Providing HCT, ART AND PMTCT Services by Region (EFY 2002)**

Regions	Number of Health Facilities providing HCT services	Number of Health Facilities providing PMTCT services	Number of Health Facilities providing ART services
Tigray	184	109	60
Afar	42	12	8
Amhara	541	519	125
Oromia	599	260	144
Somali	32	23	7
Ben-Gumuz	28	18	13
SNNPR	376	301	121
Gambella	11	10	8
Harari	12	12	2
Addis Ababa	224	59	53
Dire Dawa	20	12	9
Uniformed	115	17	NA
<b>National</b>	<b>2,184</b>	<b>1,352</b>	<b>550</b>

Source: Federal HIV AIDS Prevention and Control Office

## 6.4.5 PMTCT Service by Region (EFY 2002)

Regions	ANC clients in Facilities providing PMTCT		Pre- Counseled		Pregnant women			Women who received NVP		Children Who received NVP
	Number	%	Number	%	Tested for HIV	Positive	% Positive	Number	%	
Tigray	120,215	74.1	89,096	74.1	75,274	1,174	1.6	613	52.2	312
Afar	7,979	75.9	6,057	75.9	5,316	210	4.0	129	61.4	54
Amhara	228,221	97.5	222,470	97.5	201,291	4,790	2.4	1,959	40.9	1,455
Oromia	219,096	81.7	178,892	81.7	167,367	3,324	2.0	1,719	51.7	1,124
Somali	4,458	100.0	4,458	100.0	4,391	34	0.8	12	35.3	6
Ben-Gumuz	7,494	100.0	7,494	100.0	7,494	125	1.7	85	68.0	80
SNNPR	139,184	98.3	136,831	98.3	134,956	1,081	0.8	796	73.6	548
Gambella	5,262	100.0	5,262	100.0	4,999	226	4.5	156	69.0	146
Harari	2,255	92.6	2,089	92.6	2,089	69	3.3	69	100.0	60
Addis Ababa	54,698	94.9	51,921	94.9	43,128	1,976	4.6	1,206	61.0	1,093
Dire Dawa	5,690	92.5	5,262	92.5	5,262	235	4.5	134	57.0	134
Uniformed	1,547	97.5	1,509	97.5	1,498	13	0.9	112	861.5	39
<b>National</b>	<b>796,099</b>	<b>89.4</b>	<b>711,341</b>	<b>89.4</b>	<b>653,065</b>	<b>13,257</b>	<b>2.0</b>	<b>6,990</b>	<b>52.7</b>	<b>5,051</b>

Source: Federal HIV/AIDS Prevention and Control Office



## VII. INTEGRATED DISEASE SURVEILLANCE REPORT

Indicators of communicable diseases, including diseases targeted for eradication or elimination:

- ◆ **Number of reported cases of meningitis:** number of cases of meningitis, as per the meningitis clinical case definition
- ◆ **Number of reported cases of Poliomyelitis:** number of reported cases of laboratory confirmed polio cases
- ◆ **Number of reported cases of Acute Flaccid Paralysis (non polio) (AFP):** number of cases of Acute Flaccid Paralysis (non polio) (AFP)
- ◆ **Number of reported cases of Measles:** Confirmed measles cases, including those confirmed clinically, epidemiologically, or by laboratory investigation
- ◆ **Number of reported cases of Neonatal tetanus:** number of suspected neonatal tetanus newborns according to the national surveillance system.
- ◆ **Number of reported cases of dracunculiasis:** number of reported suspected cases of dracunculiasis according to the national surveillance system.
- ◆ **Number of reported cases of Relapsing Fever:** number of reported suspected and confirmed cases of relapsing fever according to the national surveillance system.
- ◆ **Number of reported cases of Typhoid Fever:** number of reported suspected and confirmed cases of typhoid fever according to the national surveillance system
- ◆ **Number of reported cases of Typhus:** number of reported suspected and confirmed cases of typhus according to the national surveillance system.
- ◆ **Number of reported cases of Yellow fever:** number of confirmed yellow fever cases, including those confirmed clinically, epidemiologically, or by laboratory in according to the national surveillance system.

**7.1 Annual Report of Epidemic Diseases (EFY 2002)**

Region	Meningitis		Measles		AWD	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Tigray	62	0	136	0	0	0
Afar	NA	NA	36	0	1200	25
Amhara	37	2	743	0	1,995	38
Oromia	889	1	2329	10	5,345	89
Somali	NA	NA	42	0	1,405	19
Ben-Gumuz	NA	NA	23	0	0	0
SNNPR	59	0	918	2	1321	5
Gambella	NA	NA	1	0	0	0
Harari	0	0	24	0	49	0
Addis Ababa	58	2	241	0	9,593	14
Dire Dawa	NA	NA	3	0	0	0
<b>National</b>	<b>1,105</b>	<b>5</b>	<b>4,496</b>	<b>12</b>	<b>20,908</b>	<b>190</b>

**7.2 Annual Report By Regions Completed From Weekly IDSR Summary Report (EFY 2002)**

Regions	AFP	Neonatal Tetanus	Yellow fever	Dranculiasis	Viral Hemorrhagic fever
Tigray	53	0	0	0	0
Afar	28	1	0	0	0
Amhara	279	17	0	0	0
Oromia	342	8	0	0	0
Somali	15	6	0	0	0
B-Gumuz	7	0	0	0	0
SNNPR	175	22	0	0	0
Gambella	7	0	0	24	0
Harari	1	0	0	0	0
Addis Ababa	29	0	0	0	0
Dire Dawa	1	0	0	0	0
<b>Grand Total</b>	<b>937</b>	<b>54</b>	<b>0</b>	<b>24</b>	<b>0</b>

7.3 Annual Inpatient Cases Reported by Regions Completed From Weekly IDS Summary Report (EFY 2002)

Regions	Typhoid fever		Relapsing fever		Epidemic Typhus		Dysentery		Rabies		Total Malaria	
	Case	Death	Case	Death	Case	Death	Case	Death	Case	Death	Case	Death
Tigray	113	0	1	0	31	0	74	1	88	0	1,590	14
Afar	0	0	0	0	0	0	45	0	0	0	504	0
Amhara	25	0	1	0	0	0	14	0	14	1	1,535	1
Oromia	265	8	66	1	22	0	123	1	89	2	1,154	37
Somali	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-Gumuz	10	1	0	0	0	0	0	0	0	0	129	1
SNNPR	271	3	15	1	10	0	48	0	32	0	2,896	41
Gambella	0	0	0	0	0	0	0	0	0	0	0	0
Harari	0	0	0	0	0	0	5	0	0	0	2	0
Addis Ababa	73	0	170	4	24	0	34	0	0	0	19	0
Dire Dawa	0	0	0	0	0	0	0	0	0	0	1	0
National	757	12	253	6	87	0	343	2	223	3	7,830	94

**7.4 Annual Outpatient Cases Reported by Region Completed  
From Weekly IDS Summary Report (EFY 2002)**

Regions	Typhoid fever	Relapsing fever	Epidemic Typhus	Dysentery
Tigray	2,377	10	42	12,895
Afar	219	0	0	1258
Amhara	9,265	211	4,092	8,991
Oromia	39,125	1,197	5641	15877
Somali	NA	NA	NA	NA
B-Gumuz	281	1	14	60
SNNPR	23251	614	1778	4533
Gambella	NA	NA	NA	NA
Harari	143	0	0	345
Addis Ababa	17,392	266	9,145	5,206
Dire Dawa	NA	NA	NA	46
<b>Grand Total</b>	<b>92,058</b>	<b>2,299</b>	<b>20,712</b>	<b>49,211</b>

## VIII. HYGIENE & ENVIRONMENTAL HEALTH

Indicators of this section include:

- ◆ ***Households' access to any type of latrine facilities:*** proportion of households which has access to any type of latrine facilities.
- ◆ ***Safe water supply:*** proportion of households using an improved water source as their main source of drinking water.



## 8.1 Hygiene and Environmental Health Profile by Regions (EFY 2002)

Region	Access to Safe water			Access to Excreta Disposal		
	Urban%	Rural %	%	No of HHs in the Region	Cumulative No of HHs with Latrine	% coverage
Tigray	85.3	58.8	64.0	1,055,954	764,432	72.4
Afar	86.0	67.0	69.5	264,261	18,243	6.9
Amhara	90.0	80.0	76.0	4,280,684	3,635,201	84.9
Oromia	95.5	64.5	68.5	6,164,675	3,914,402	63.5
Somali	76.5	37.0	42.5	726,436	298,374	41.1
Ben-gumz	90.1	81.0	80.2	162,901	58,038	35.6
SNNPR	90.9	58.7	62.0	3,343,533	3,244,462	97.0
Gambella	73.0	63.1	65.7	75,269	16,867	22.4
Harari	95.0	53.0	75.8	50,774	21,836	43.0
Addis Ababa	96.0	—	96.0	710,830	661,073	93.0
Diredawa	79.7	76.0	78.1	82,042	40,178	49.0
<b>National</b>	<b>91.5</b>	<b>6.8</b>	<b>68.5</b>	<b>16,917,359</b>	<b>12,673,106</b>	<b>74.9</b>

Source for access to safe water: Ministry of Water Resource

NB: Water supply access is calculated based on the provision of 20 liter/capita/day for urban, and also 15 l/c/d for rural at radius of 0.5 kilometers, respectively

## IX. ASSETS

This section include:

- ◆ ***Number of health Facilities:*** the total number of health facilities (Hospitals, HCs, HPs, and Clinics) disaggregated by type and ownership;
- ◆ ***Functional facility to population ratio:*** reflects the number of persons served by each facility, by facility type.
- ◆ ***Primary health care coverage:*** Proportion of population living within 2 hours walking distance. It is a proxy indicator of equity in service access, estimated that a HP covers 5,000 persons and HC 25,000 persons, minus the population covered by HP. access one PHCU is for 25000 populations.

9.1 Health Facility Construction, Rehabilitation & Expansion by Region (EFY 2002)

Regions	Hospitals				Health Centers				Cumulative No of HPs available at the end of EFY 2002	
	New	Ongoing	Rehabilitation	Expansion	Total	By FMOH		By Regions		
						Cumulative No of Sites available plus under construction	No of Sites completed at the end of EFY 2002	Cumulative No of Sites available plus under construction		No of Sites completed at the end of EFY 2002
Tigray	2	1	-	2	14	83	65	73	65	552
Afar	1	4	-	-	4	43	14	0	0	251
Amhara	1	-	-	-	17	283	208	199	121	2,941
Oromia	2	14	5	7	42	454	328	411	305	5,930
Somali	-	1	-	-	7	79	13	17	7	701
Ben-gumz	-	1	-	-	2	15	14	2	0	291
SNNPR	-	2	-	-	16	264	180	167	122	3,340
Gambella	-	-	-	-	1	15	13	7	2	132
Harari	1	2	-	-	2	5	5	52	2	20
Addis Ababa	-	-	-	-	10	0	0	0	1	-
Diredawa	1	2	-	-	1	8	8	1	1	34
National	8	27	5	9	116	1,249	848	929	626	14,192

9.2 Health facility to population Ratio by Region (EFY 2002)

Regions	Population	Hospital		Health Center		Health Post	
		Number	Ratio	Number	Ratio	Number	Ratio
<b>Tigray</b>	4,646,197	14	1:331,871	170	1:27,331	552	1:8,417
<b>Afar</b>	1,506,288	4	1:376,572	28	1:53,796	251	1:6,001
<b>Amhara</b>	18,406,943	17	1:1082761	520	1:35,398	2941	1:6,259
<b>Oromia</b>	29,590,441	42	1:704,531	825	1:35,867	5930	1:4,990
<b>Somali</b>	4,794,481	7	1:684,926	35	1:136,985	701	1:6,839
<b>Ben-Gumuz</b>	733,053	2	1:366,526	29	1:25,278	291	1:2,519
<b>SNNPR</b>	16,389,550	16	1:1,024,347	463	1:35,399	3340	1:4,907
<b>Gambella</b>	346,236	1	1:346,236	23	1:15,054	132	1:2,623
<b>Harari</b>	198,020	2	1:99,010	8	1:24,752	20	1:9,901
<b>Addis Ababa</b>	2,914,406	10	1:291,441	26	1:112,093	NA	NA
<b>Dire Dawa</b>	369,187	1	1:369,187	15	1:24,612	34	1:10,858
<b>National</b>	<b>79,894,802</b>	<b>116</b>	<b>1:688,748</b>	<b>2,142</b>	<b>1:37,299</b>	<b>14,192</b>	<b>1:5,630</b>

## 9.3 Distribution of Health facilities by Type and Ownership (EFY, 2002)

Region	Hospital				Clinics					
	OGA	NGO	Private	Total	Special	Higher	Medium	Lower	Total	
Tigray	0	1	4	5	0	20	10	59	89	
Afar*	0	0	0	0	0	0	5	4	9	
Amhara	0	0	4	4	23	35	202	744	1,004	
Oromia	5	4	4	13	7	43	265	1,334	1,649	
Somali*	0	0	2	2	0	0	2	0	2	
Ben-Gumuz*	2	0	0	2	0	1	4	75	80	
SNNPR	0	5	3	8	0	12	110	459	581	
Gambella*	0	0	0	0	0	0	3	18	21	
Harari	2	0	2	4	0	0	23	6	29	
Addis Ababa	0	1	29	30	128	138	200	184	650	
DireDawa	0	1	3	4	0	6	12	17	35	
Central	4	2	0	6	0	0	0	0	0	
<b>Total</b>	<b>13</b>	<b>14</b>	<b>51</b>	<b>78</b>	<b>158</b>	<b>255</b>	<b>836</b>	<b>2,900</b>	<b>4,149</b>	

\* 2001 EFY Data

Remark: OGA = Other Governmental Authority (other than MOH), NGO = Non governmental Organization (eg. Mission)

## 9.4 Distribution of Pharmaceutical Retail Outlets by Region and Ownership (EFY 2002)

Region	Pharmacy					Drug Store				Rural Drug Vendor
	Public	NGO	OGA	Private	Total	OGA	NGO	Private	Total	
Tigray	0	0	0	5	5	0	0	111	111	121
Afar*	0	0	0	0	0	0	0	9	9	36
Amhara	55	0	0	36	91	0	0	215	215	217
Oromia	NA	NA	NA	NA	45	NA	NA	NA	371	550
Somali*	3	0	0	0	3	5	1	0	6	69
Ben-Gumz*	0	0	2	1	3	15	1	12	28	46
SNNPR	0	4	0	23	27	4	0	91	95	261
Gambella*	0	0	0	7	7	0	0	3	3	17
Harari	0	0	0	3	3	0	2	20	22	1
Addis Ababa	31	5	1	189	226	0	0	190	190	0
Dire Dawa	2	0	0	6	8	0	1	18	19	3
<b>Total</b>	<b>91</b>	<b>9</b>	<b>3</b>	<b>270</b>	<b>418</b>	<b>24</b>	<b>5</b>	<b>669</b>	<b>1069</b>	<b>1,321</b>

\* 2001 EFY Data



## X. FINANCE

Indicators of finance include:

- ◆ ***Share of health budget as a proportion of total budget*** : general government expenditure on health as a percentage of total expenditure on health
- ◆ ***Health Budget Utilization***: ratio of Health budget utilization to allocation :
- ◆ ***Per Capita Public Expenditure on Health***: the average public expenditure on health per person per year. Public expenditure includes government budget, donors support in the form of direct budget support (channel 1) and donors support to the MOH (Channel 2). However, it excludes out-of pocket spending by individuals (i.e. direct payments to private practitioners, traditional healers, private pharmacies, and government facilities in the form of user charges) as well as expenditure from private for profit and private-non-for-profit (NGOs).



## 10.1 Share of Health Budget as a Proportion of Total Budget (EFY 2002)

Region	Total Allocation in millions			Total Allocation for Health in millions			Proportion of Allocated Budget for Health
	Recurrent	Capital	Total	Recurrent	Capital	Total	
Tigray	1429.32	657.47	2086.79	150.38	27.54	177.92	8.5%
Afar	484.83	293.57	778.4	54.57	33.75	88.32	11.3%
Amhara	4165.12	1608.01	5773.13	396.28	148.71	544.99	9.4%
Oromiya	6077.03	2231.34	8308.37	602.91	472.27	1075.18	12.9%
Somali	990.98	1091.05	2082.03	94.63	164.08	258.71	12.4%
Ben-Gum	391.5	80	471.5	48.03	3.9	51.93	11.0%
SNNP	3410.28	1444.16	4854.44	448.16	178.29	626.45	12.9%
Gambella	290.77	73	363.77	27.54	13.66	41.2	11.3%
Harari	134.48	97.87	232.35	24.56	1.02	25.58	11.0%
Addis Ababa	3064.36	2263.68	5328.04	135.44	100.92	236.36	4.4%
Dire Dawa	213.9	122.05	335.95	25.46	17.59	43.05	12.8%
National	20652.56	9962.22	30614.78	2007.96	1161.73	3169.69	10.4%

10.2 Percentage of Health Budget Utilization to Allocation (EFY 2002)

Regions	Recurrent Budget			Capital Budget			Total Budget		
	Allocated	Expenditure	% Expenditure	Allocated	Expenditure	% Expenditure	Allocated	Expenditure	% Expenditure
Tigray	150.38	161.34	107.29	27.54	33.55	121.82	177.92	194.89	109.54
Afar*	54.57	39.69	72.73	33.75	8.81	26.10	88.32	48.5	54.91
Amhara	396.28	372.69	94.05	148.71	122.06	82.08	544.99	494.75	90.78
Oromiya	602.91	617.17	102.37	472.27	401.84	85.09	1075.18	1019.01	94.78
Somali	94.63	92.36	97.60	164.08	83.25	50.74	258.71	175.61	67.88
Ben-Gum	48.03	48.95	101.92	3.9	2.97	76.15	51.93	51.92	99.98
SNNP	448.16	394.48	88.02	178.29	86.94	48.76	626.45	481.42	76.85
Gambella	27.54	31.91	115.87	13.66	3.77	27.60	41.2	35.68	86.60
Harari	24.56	26.26	106.92	1.02	0.35	34.31	25.58	26.61	104.03
Addis Ababa	135.44	103.85	76.68	100.92	84.74	83.97	236.36	188.59	79.79
Dire Dawa	25.46	27.45	107.82	17.59	5.2	29.56	43.05	32.65	75.84
National	2007.96	1916.15	95.43	1161.73	833.48	71.74	3169.69	2749.63	86.75

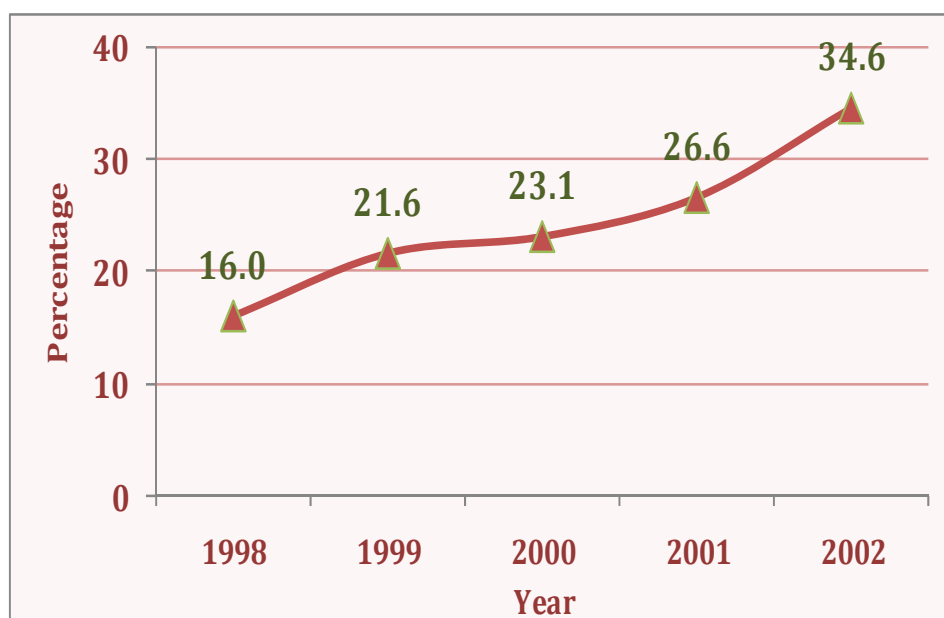
\* Nine Month Data

**10.3 Per Capita Public Expenditure on Health by Region (EFY 2002)**

Region	Total Population	Health total Expenditure	Per capita Health Expenditure
Tigray	4,646,197	194.89	41.9
Afar*	1,506,288	48.5	32.2
Amhara	18,106,982	494.75	27.3
Oromiya	29,590,441	1019.01	34.4
Somali	4,794,481	175.61	36.6
Ben-Gum	733,053	51.92	70.8
SNNP	16,389,550	481.42	29.4
Gambella	346,236	35.68	103.1
Harari	198,020	26.61	134.4
Addis Ababa	2,914,406	188.59	64.7
Dire Dawa	369,187	32.65	88.4
National	79,594,841	2749.63	34.5

\* Nine Month Data

**Figure 8: Trend in Per-capita Public expenditure (EFY 1998 - 2002)**





## XI. HUMAN RESOURCE

Indicators of human resource:

- ◆ Health Staff to population ratio by category (doctor, health officer, nurse, midwife, health extension worker, etc).

11.1 Distribution of Health Professionals in Public Sectors by Region (EFY 2002)

Profession	Tigray	Afar*	Amhara	Oromia	Somali	Ben_G*	SNNPR	Gambella*	Harari	A.A	D.D	Central	National
General Practitioner	61	12	97	215	52	8	148	10	21	110	40	45	819
Total Specialist	37	3	91	60	25	4	73	3	21	51	26	37	431
Health Officer	286	29	653	979	107	42	715	13	35	139	26	35	3,059
Pharmacist	48	8	185	203	52	9	23	5	12	50	24	44	663
Pharmacy Technician	462	55	817	729	92	39	504	6	48	140	35	19	2,946
Nurse B.Sc.	195	NA	339	652	135	NA	NA	NA	11	559	57	358	2,306
Clinical Nurse (Diploma)	2417	NA	4353	6620	1001	NA	NA	NA	255	1099	227	370	16,342
Midwives (Diploma+BSC)	17	0	294	680	246	37	460	4	25	157	34	45	1,999
All Nurses	2687	185	5049	8943	1418	452	3913	91	309	1900	363	895	26,205
Lab. Technologist	86	13	322	417	79	2	68	7	11	100	16	72	1,193
Lab Technician	264	27	644	547	127	33	548	2	61	109	52	20	2,434
Radiographer	7	NA	10	32	7	NA	NA	0	0	26	2	29	113
X-Ray Technician	16	NA	13	34	18	NA	17	NA	10	0	7	11	126
Environmental Health (Diploma+BSC)	47	16	263	823	56	23	261	9	6	46	10	9	1,569
Others	324	0	1080	785	64	22	342	11	5	19	2	90	2,744
<b>Total **</b>	<b>4,325</b>	<b>348</b>	<b>9,224</b>	<b>13,767</b>	<b>2,097</b>	<b>634</b>	<b>6,612</b>	<b>157</b>	<b>539</b>	<b>2,690</b>	<b>603</b>	<b>1,306</b>	<b>42,302</b>

\* 2001 data \*\* It doesn't include HEWs (Urban and Rural)

N.B All Nurses include: BSC & Diploma, midwives, psychiatry, dental, ophthalmic, OR, public, Anaesthetic etc... nurses

11.2 Distribution of Health Professionals to Population Ratio by Region (EFY 2002)

Region	Population	GP+Specialist		Health Officer		Midwives (Diploma+BSC)		All nurses		Pharmacy (BSC + Dip)		Lab (BSC + Dip)	
		Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Tigray	4,646,197	98	47,410	286	16,245	17	273,306	2687	1,729	510	9,110	350	13,275
Afar	1,506,288	15	100,419	29	51,941	0	-	185	8,142	63	23,909	40	37,657
Amhara	18,106,982	188	96,314	653	27,729	294	61,588	5049	3,586	1002	18,071	966	18,744
Oromia	29,590,441	175	169,088	979	30,225	680	43,515	8943	3,309	932	31,749	964	30,695
Somali	4,794,481	77	62,266	107	44,808	246	19,490	1418	3,381	144	33,295	206	23,274
Ben_G	733,053	12	61,088	42	17,454	37	19,812	452	1,622	48	15,272	35	20,944
SNNPR	16,389,550	221	74,161	715	22,922	460	35,629	3913	4,188	527	31,100	616	26,606
Gambella	346,236	13	26,634	13	26,634	4	86,559	91	3,805	11	31,476	9	38,471
Harari	198,020	42	4,715	35	5,658	25	7,921	309	641	60	3,300	72	2,750
Addis Ababa	2,914,406	161	18,102	139	20,967	157	18,563	1900	1,534	190	15,339	209	13,945
Dire Dawa	369,187	66	5,594	26	14,200	34	10,858	363	1,017	59	6,257	68	5,429
National	79,594,841	1,188	66,999	2,522	31,560	1,539	51,719	22,316	3,567	3,444	23,111	3,322	23,960

Remark: Ratio refers to population to health professional

### 11.3 Distribution of Health Professionals by Specialty (EFY 2002)

Profession	National
Internist	65
Surgeon	105
Pediatrician	36
Gynecologist	76
Ophthalmologist	26
Orthopedist	20
ENT Specialist	6
Anesthesiologist	18
Dentist	28
Radiologist	34
Physiotherapist	55
Neurologist	8
Public Health Specialist	91
Dermatologist	9
Psychiatrist	15
Others	10
<b>Total Specialist</b>	<b>602</b>

### 11.4 Health Extension Workers Training and Deployment by Type and Region (EFY 2002)

Region	Rural HEWs			Cumulative No of Urban HEWs trained and Deployed in EFY 2002
	No of HEWs newly trained and Deployed in EFY 2002	Cumulative No of HEWs trained and Deployed in EFY 2002	No of HEWs available in the end of EFY 2002	
<b>Tigray</b>	73	1,442	1,202	221
<b>Afar</b>	196	572	572	0
<b>Amhara</b>	330	7,342	6,188	462
<b>Oromia</b>	524	13,487	12,875	841
<b>Somali</b>	327	1,427	1,427	0
<b>B. Gumuz</b>	403	924	924	0
<b>SNNPR</b>	627	8,542	7,238	263
<b>Gambella</b>	0	457	429	0
<b>Harari</b>	8	47	38	59
<b>Addis Ababa</b>	0	0	0	1,470
<b>Dire Dawa</b>	63	142	102	85
<b>National</b>	<b>2,551</b>	<b>34,382</b>	<b>30,995</b>	<b>3,401</b>

### 11.5 Comparison of Baseline, Target and Performance for Cumulative Number of Model HHs Graduated by Region (EFY 2002)

Region	2002 Baseline	2002 Target	2002 Performance	Cumulative Performance %
Tigray	629,369	893,655	703,152	703,152
Afar	0	21,716	130	130
Amhara	1,262,943	2,732,508	2,508,472	2,508,472
Oromia	703,756	4,423,315	4,300,287	4,300,287
Somali	8,490	215,777	30,490	30,490
Ben_Gumuz	10,602	101,896	15,604	15,604
SNNPR	1,445,524	2,853,132	2,417,012	2,417,012
Gambella	0	14,967	0	0
Harari	428	12,933	2,159	2,159
Dire Dawa	420	4,009	2,400	2,400
<b>National</b>	<b>4,061,532</b>	<b>11,273,908</b>	<b>9,979,706</b>	<b>9,979,706</b>

### 11.6 Distribution of Graduating Health Professionals in Public Universities (EFY 2002)

Training School		2002
Name	Type	
<b>ADDIS ABABA UNIVERSITY</b>	General Practitioner	86
	Nursing	57
	Midwife Nurse	39
	Anaesthesia	41
	Radiography	53
	Pharmacy	72
	Laboratory	57
<b>GONDER UNIVERSITY</b>	General Practitioner	65
	Health Officer	112
	Nursing	80
	Midwife Nurse	44
	Environmental Health	46
	Pharmacy	101
	Physiotherapy	34
	Occupational Health	26
	Optometry	24
	Anesthesia	27
Laboratory	74	



Cont...

Training School		2002
Name	Type	
ARBAMINCH UNIVERSITY	Health Officer	67
	Nursing	47
	Laboratory	52
DEBREBIRHAN UNIVERSITY	Health Officer	80
	Nursing	41
HAWASSA UNIVERSITY	General Practitioner	37
	Health Officer	84
	Nursing	84
	Midwife Nurse	45
	Environmental Health	87
	Laboratory	82
	Optometry	16
HARUMAYA UNIVERSITY	Health Officer	124
	Nursing	68
	Midwife Nurse	24
	Environmental Health	60
	Laboratory	74
JIMMA UNIVERSITY	General Practitioner	83
	Health Officer	129
	Nursing	118
	Dental Medicine	37
	Health Education	71
	Anaesthesia	26
	Laboratory	101
JJIGA UNIVERSITY	Health Officer	90
	Nursing	53
MEDAWELABU UNIVERSITY	Health Officer	38
	Nursing	42
	Environmental Health	38
MEKELE UNIVERSITY	General Practitioner	65
	Pharmacy	30
WELAYTA UNIVERSITY	Health Officer	121
	Nursing	86
WOLEGA UNIVERSITY	Health Officer	48
	Nursing	51

## XII. HEALTH SERVICE COVERAGE & UTILIZATION

Health system indicators include:

- ◆ ***Outpatient (OPD) attendance per capita:*** average number of outpatient visits (including first and repeat visits) per person per year
- ◆ ***Admission rate:*** number inpatient admissions per 1000 population
- ◆ ***Bed occupancy rate:*** average percentage of occupied beds during the period under review (usually one year).
- ◆ ***Average length of stay (in days):*** of patients in an inpatient facility during a given period of time
- ◆ ***Availability of Basic Emergency Obstetric Care (BEOC):*** is one that performed all of the following six services (known as signal functions) at least once in the previous three months: administration of parenteral antibiotics, oxytocics and anticonvulsants; manual removal of the placenta; removal of retained products (e.g. manual vacuum aspiration); and assisted vaginal delivery (vacuum extraction or forceps). In Ethiopia the recommended standard is one BEOC facility (at a Nucleus Health Center) per 25,000 population.
- ◆ ***Availability of Comprehensive Emergency Obstetric Care (CEOC):*** is one that has performed surgery (caesarean section) and blood transfusion, in addition to all six BEOC services, at least once in the previous three months.

## 12.1 Total length of Stay by Region (EFY 2002)

Regions	Number of Admissions	Total length of stay (in days)	Number of discharges
Tigray	44,346	180,823	47,858
Afar	NA	NA	NA
Amhara	21,586	32,788	7,887
Oromia	359,098	NA	NA
Somali	9,364	NA	NA
Ben_Gumuz	6,065	18,671	5,093
SNNPR	NA	NA	NA
Gambella	1,705	2,297	NA
Harari	12,230	48,903	10,818
Addis Ababa	30,644	89,263	13,649
DireDawa	7,306	25,914	4,443
Federal Hospitals	22,335	308,562	20,036
<b>National</b>	<b>514,679</b>	<b>707221</b>	<b>109784</b>

## 12.2 OPD Attendance Per-capita and Admission Rate by Region (EFY 2002)

Regions	Population	Total No of OPD Visits	OPD Attendance per capita
Tigray	4,646,197	2,444,142	0.53
Afar	1,506,288	263,292	0.17
Amhara	18,406,943	4,477,997	0.24
Oromia	29,590,441	9,318,683	0.31
Somali	4,794,481	599,335	0.13
Ben_Gumuz	733,053	306,251	0.42
SNNPR	16,389,550	3,453,347	0.21
Gambella	346,236	39,215	0.11
Harari	198,020	89,625	0.45
Addis Ababa	2,914,406	1,994,341	0.68
DireDawa	369,187	148,713	0.40
<b>National</b>	<b>79,894,802</b>	<b>23,134,941</b>	<b>0.29</b>

### 12.3 Distribution of Health Centers providing EmONC by Region (EFY 2002)

Regions	Total No of Available Health Centers	Cumulative No of HCs providing B-EmONC	Coverage
Tigray	170	136	80.0
Afar	28	2	7.1
Amhara	520	147	28.3
Oromia	825	192	23.3
Somalia	35	0	0.0
Ben-Gum	29	6	20.7
SNNPR	463	178	38.4
Gambella	23	8	34.8
Harari	8	5	62.5
Addis Ababa	26	26	100.0
DireDawa	15	15	100.0
<b>National</b>	<b>2,142</b>	<b>715</b>	<b>33.4</b>



## GLOSSARY

### *Admission*

Formal acceptance, by a health facility, of a patient who is to receive medical or paramedical care while occupying a health facility bed. Healthy babies born in hospital should not be counted if they do not require special care.

### *Age dependency ratio*

The ratio of persons in the “dependent” ages (under 15 and older than 64 years) to those in the “economically productive” ages (15-64 years) in a population.

### *Antenatal Care coverage*

Percentage of women who utilized antenatal care provided by skilled birth attendance for reasons related to pregnancy at least once during pregnancy as a percentage of live births in a given time period.

### *Average household size*

The mean number of members per household

### *Child mortality*

The probability of dying between exact age one and the fifth birth day per 1000 children surviving to the first birth day.

### *Contraceptive Accepters rate*

The proportion of women of reproductive age (15-49 years) who are not pregnant and who are accepting a modern contraceptive method (new and repeat acceptors).

### *Crude birth rate*

The registered number of live births for every 1000 population in a given year or period of time. Disaggregated by gender.

### *Crude death rate*

The registered number of deaths for every 1000 population in a given year or period of time. Disaggregated by gender.

### ***Dependency ratio***

The ratio of persons in the 'dependent' age groups (under 15 years plus 65 years and above) to those in the 'economically productive' age group (15-64 years), expressed as a percentage.

### ***Demography***

The study of population and its characteristics, with reference to such factors as size, age structure, density, fertility, mortality, growth and social and economic variables.

### ***Drug store***

It is an establishment which offers medical preparations, cosmetics nursing and sanitary articles, dietetic products and other articles as approved for the purpose by the Ministry for sale to the public. but does not engage in the compounding preparation or manufacture of any medical preparation.

### ***Fully immunized***

Surviving infants who receive all doses of infant antigens. The Infant Antigens are: BCG, Pentavalent (DPT-HepB, Hib), doses 1 -3; OPV, doses 1—3; and Measles.

### ***General fertility rate***

The number of births occurring in a given year per 1000 women in the reproductive ages (i.e. women aged 15-49).

### ***Health center***

It is an establishment which provides both preventive and curative services. It comprises five satellite health posts and is expected to serve for 25,000 people.

### ***Health post***

One of the satellite facility in the Primary Health Care Unit which serves for 5,000 people (1 per Kebele).

### *Higher clinic*

Staffed at least by a general medical practitioner, a specialist and assisted by various specialists serve for general outpatient clinics. For emergency and delivery this clinic has up to 5 beds.

### *Hospital*

An establishment that provides general medical care round the clock. It is at least equipped with basic laboratory, X-ray and basic treatment facilities.

- ◆ **District /first level referral Hospital:** serves for 250,000 people
- ◆ **Regional Hospital:** serves for 1 million people
- ◆ **Specialized Hospital:** serves for 5 million people

### *Household*

A single person living alone or a group voluntarily living together, having common house keeping arrangements for supplying basic living needs, such as principal meals. The group may consist of related or unrelated persons.

### *Infant mortality rate*

The number of registered deaths among infants (below one year of age) per 1000 live births in a given year or period of time.

### *In-patient*

A person admitted to a health care facility and who usually occupies a bed in that health care facility.

### *Leading causes of morbidity*

The most frequently occurring causes of morbidity (usually 10) among in-patients for which the greatest number of cases have been reported during a given year.

### *Leading causes of mortality*

The most frequently occurring causes of mortality (usually 10) under which the greatest number of deaths have been reported during a given year. Causes of mortality are all those diseases, morbid conditions, or injuries which either resulted in or contributed to death, and the circumstances of the accident or violence that produced any such injuries.



### *Life Expectancy at Birth*

The average number of years a newborn baby is expected to live if mortality patterns at the time of its birth were to prevail throughout the child's life.

### *Live birth*

The complete expulsion or extraction from its mother of conception, irrespective of the duration of pregnancy, which after such separation shows any evidence of life.

### *Lower clinic*

Staffed at least by a health assistant or a nurse and serve for general out-patient clinic.

### *Maternal mortality rate*

The number of registered deaths among women, from any cause related to or aggravated by pregnancy or its management (excluding accidental or incidental causes) during pregnancy, childbirth or within 42 days of termination of pregnancy, irrespective of the duration or site of the pregnancy, for every 100 000 live births in a given year or period of time.

### *Medium Clinic*

Staffed at least by health officer or general medical practitioner & serve for general medical services.

### *Morbidity*

The extent of illness, injury or disability in a population.

### *Out-patient*

A person who goes to a health care facility for consultation, is not admitted to the facility and does not occupy a hospital bed for any length of time.

### *Paramedical staff*

Health care assistants, laboratory technicians, technologists, therapists, nutritionists, sanitarians, among others, who are actually working in the country and are graduates of 2- to 5-year health courses in recognized health training institutions.

### *Pharmacy*

Any store, shop or other place in which medicinal preparation are compounded or prepared and dispensed or sold to the public.

### *Population*

All the inhabitants of a given country or area considered together. Estimates are based on a recent census, official national data or United Nations projections. Presented in thousands or actual value.

### *Postnatal visits*

Women attended, at least once during postpartum (42 days after delivery), by health professional including HEW's for reasons relating to post partum.

### *Potential health service coverage*

The population covered in percentage based on the existing health centres and health posts in catchments' area.

### *Rate of National Increase*

A measure of population growth (in the absence of migration) comprising addition of newborn infants to the population and subtraction of deaths. Expressed as a percentage per annum. This rate, which specifically excludes changes resulting from migration, is equal to the difference between the crude birth rate and the crude death rate.

### *Rural.*

Those working rural areas or in areas outside cities and metropolitan areas generally regarded as underdeveloped in terms of infrastructure and specialized services

### *Rural drug vendor*

The lowest level of medicinal retail outlet that dispenses medical preparations as approved for this level by the Ministry, but does not engage in compounding preparation or manufacturing of any medical preparation.

### *Sex ratio*

The number of males in a population or specific sub-population, divided by corresponding number of females, conventionally multiplied by 100.

### *Skilled Birth Attendant*

An accredited health professional such as midwife, doctor or nurse who has been trained in the skills needed to manage normal (uncomplicated) pregnancies, child birth and the immediate postnatal period and in the identification, management and referral of complications in women and newborn. (exclude TTBA and HEWs)

### *Surviving infants*

Infants who survive to their first birth day

### *Special clinic*

Provides specific medical interventions such as medical, surgical, obstetric gynaecology, ophthalmology, etc. and is assisted by specialists in various disciplines.

### *Total fertility rate*

The average number of children that would be born per woman of all women lived to end of their childbearing years and born children according to a given set of age specific fertility rates.

### *Urban*

Those working in urban areas or in planned metropolitan communities in developed areas designed to be self-sufficient, with their own housing, education, commerce and recreation.

### *Under-five mortality rate*

The probability (expressed as a rate per 1000 live births) of a child born in a specified year dying before reaching the age of five if subject to current age-specific mortality rates.

### *Vital events*

Births, deaths, marriages and divorces

