

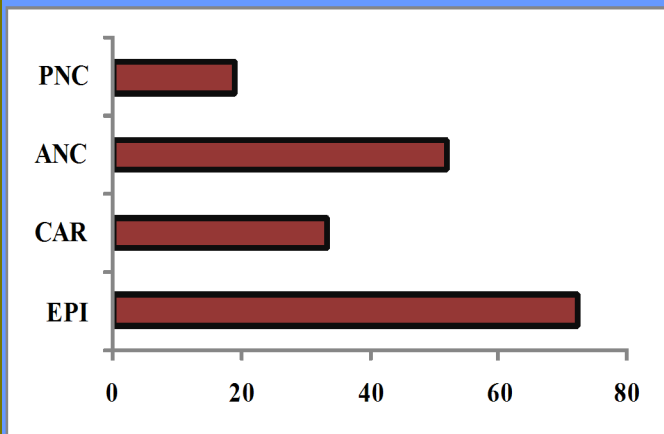


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Federal Democratic Republic of Ethiopia
Ministry of Health

Health and Health Related **INDICATORS**

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Planning and Programming Department ,FMOH



Health and Health Related Indicators

1999 E.C (2006/07 G.C.)

*Health information Processing and Documentation
Team*

Explanatory Notes

All years in this publication, unless otherwise stated are in Ethiopian calendar

The following symbols have been used in the tables throughout the report

- A blank in a table indicates that the items is not applicable
- A number in parenthesis () indicates a negative number
- NA in a table indicates data is not available

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November, 2007

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Preface

One of the basic characteristics of the Health Sector Development Program (HSDP) is its effectiveness in the planning, implementation and monitoring of the health sector development activities. The growing need for careful planning, strong implementation and systematic monitoring has given more significance to the availability of adequate and timely information.

Much effort has been put to improve the quality and scope of the data used in this issue. Current and previous years coverage indicators that needed population data have been adjusted based on “Central Statistical Agency 1999 E.C Abstract Report”

Among the sources of information used for the preparation of this publication are:

1. Regional annual reports
2. Departments of FMOH, Central & specialized Hospitals
3. Socio-Economic & Finance data: MOFED
4. World population Data sheet of 2007
5. Non-Governmental Organizations

As part of its main activities, the Planning and Programming Department will continue to update the Publication annually

Comments and suggestions are welcome and should be addressed to:

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Acknowledgements are due to all those who participated in providing the information and those whose invaluable comments and suggestions have made it possible the completion of this publication on time.

Health Information & Documentation Team

ACRONYMS

ADD	Acute Diarrheal Disease
AIDS	Acquired Immunodeficiency Syndrome
AFP	Acute Flaccid Paralysis
ARI	Acute Respiratory Infection
ART	Anti Retroviral Therapy
BCG	Bacilli Calmette Guerin
B. Dysentery	Bacillary Dysentery
BS	Both sex
BMI	Body Mass Index
CEOC	Comprehensive Emergency Obstetric Care
CSA	Central Statistics Agency
CBR	Crude Birth Rate
CDR	Crude Death Rate
CHA	Community Health Attendant
CMR	Child Mortality Rate
CPR	Contraceptive Prevalence Rate
CYP	Couple Year Protection
DOTS	Directly Observed Therapy Short Course
DKT	Dehandra K.T.Yaji
DPT	Diphtheria, Pertusis and Tetanus
ENT	Ear, Nose & Throat
EPI	Expanded Program on Immunization
ETB	Ethiopian Birr
FGAE	Family Guidance Association of Ethiopia
FLHW	Front line Health Workers
FMOH	Federal Ministry of health
GDP	Gross Domestic Product
GER	Gross Enrollment Ratio
GNIPPP	Gross National Income in Purchasing power parity
HC	Health Center
HCU	Health Care unit
HEW	Health Extension worker
HH	Household
HIV	Human Immunodeficiency Virus
HIS	Health Information System
HP	Health Post
HSDP	Health Sector Development plan
HSEP	Health Service Extension Program

IDS	Integrated Disease Surveillance & Response
IUCD	Intra Uterine Contraceptive Device
LB	Live birth
LE	Life Expectancy
MB	Multibacillary
MCH	Maternal and Child Health
MDG	Millennium Development Goal
MDT	Multi Drug Therapy
M. Meningitis	Meningococcal Meningitis
NER	Net Enrollment Ratio
NGO	Non Governmental Organization
NNT	NeoNatal Tetanus
NSS	National Sentinel Surveillance
NHC	Nucleus Health center
NVP	Nevirapin
Ob.Gyn	Obstetric &Gynecology
OGO	Other Governmental Organization
OPD	Out-Patient Department
OPV	Oral Polio Vaccine
PB	Paucibacillary
PLWHA	People living with HIV/AIDS
PMTCT	Prevent Mothers to Child Transmission
PF	Plasmodium Falciprum
PFI	Pathfinder International
PHCU	Primary health care unit
PHSC	Potential Health Service Coverage
PHW	Primary Health worker
PM	Plasmodium Malaria
PV	Plasmodium Vivax
R. Fever	Relapsing Fever
RNI	Rate of National Increase
SNNP	Southern Nation & Nationalities Peoples Region
SPM	Strategic Planning & Management
STD	Sexually Transmitted Disease
TB	Tuberculosis
VCT	Voluntary Counseling & Testing

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INTRODUCTION

The land area of Ethiopia is estimated at about 1.1 million square kilometer and the current population is approximately 77 million, of which more than 84 percent live in rural areas. Ethiopia is a Federal Democratic Republic composed of 9 National Regional states: namely Tigray, Afar, Amhara, Oromia, Somali, Benishangul-Gumuz, Southern Nations Nationalities and People Region (SNNPR), Gambella And Harari and two Administrative states (Addis Ababa City administration and Dire Dawa city council).

The national regional states as well as the two cities administrative councils are further divided into six hundred eleven woredas and around 15,000 kebeles (5,000 Urban & 10,000 Rural)

Ethiopia experiences a heavy burden of disease with a growing prevalence of communicable infections. Many Ethiopians face high disease morbidity and mortality largely attributable to potentially preventable infectious diseases and nutritional deficiencies. In response to such prevailing and newly emerging health problems the Ethiopian Government has developed a 20 year rolling Health Sector Development Program which proposes long-term goals for the sector, and the means to attain them by way of a series of phases.

Currently, HSDPIII covering the period of EFY 1998(2005/06 G.C) to EFY 2002 (2009/10 G.C) is now in its second year implementation. HSDP III, which is designed in align with the wider policy frameworks such as PASDEP and MDGs. The phases of all HSDP have clear strategies for making targeted interventions against poverty related diseases which are in the main HIV/AIDS, Malaria and Tuberculosis. Other focus areas of interventions are Child Survival, Reproductive Health and Maternal Health Care. One of the main priority area has been on the training and deployment of HEWs, to this end, it was planned to train 7500 Health Extension Workers (HEWs) each year for the period EFY 1998 – 2000. HEWs are being trained in 40 Technical and Vocational Education and Training (TVET) schools.

A national HMIS and M&E reform is piloted in selected sites and now full National scale up plan is going to be started in order to ensure standardization of procedures in data collection, analysis and reporting, to support decision-making at all levels and to provide a reliable resource and platform for evidence-based planning, implementation and monitoring. Following the government's decision to use the Business Process Reengineering (BPR) as the methodology to improve the design, implementation and management of services, it is known that the FMOH has identified the HMIS as one of its core processes for system design through the application of BPR principles.

2. SUMMARY OF HEALTH INDICATORS, 1999

Indicators	1995	1996	1997	1998	1999
Total population	67,220,000	69,127,021	73,043,510	75,067,000	77,127,000
PHS coverage (%)	61.3	64.0	72.1	76.9	86.7
PHS* coverage (%)	70.7	70.2	82.9	92.0	98.1
EPI coverage(%)	50.4	60.8	70.1	75.6	72.6
Health service utilization	0.29	0.36	0.3	0.33	0.32
Contraceptive acceptance rate	21.5	23.0	25.2	35.8	33.6
Antenatal coverage	27.4	40.8	42.1	50.4	52.1
No of facilities					
Hospital	119	126	131	138	143
Health center	451	519	600	635	690
Health stations +NHC	2,396	1,797	1,662	1,206	1,376
Private clinic not for profit	383	359	379	480	397
Private clinic for profit	1,229	1,299	1,578	1,784	1,756
Health posts	1,432	2,899	4,211	5,955	9,914
Pharmacies	302	275	276	246	320
Drug shop	299	375	381	476	577
Rural drug vendors	1,888	1,783	1,787	1,754	2,121
Human resource in service					
Physicians	2,032	1,996	2,453	2,115	1,806
Health officers	631	683	776	715	1151
Nurses	14,160	15,544	18,809	17,845	18,146
Health assistant	6,856	6,628	6,363	4,800	3184
Para medical	4,641	5,215	6,259	5,431	3,863
Health extension workers			2,737	8,901	17,653
Human resource graduates					
Specialists	103	96	183	57	207
General Practitioners	182	193	309	188	161
Health officer	181	249	333	247	789
Nurses	1,465	2,384	4,536	1,618	1,846
Para medicals	1,054	9,99	803	791	789
Health extension workers		2,737	7,090	7,136	8,560

*PHS coverage includes service provided by private health facilities

3. BASIC HEALTH SECTOR DEVELOPMENT PLAN AND ACHIEVEMENT, 1999

Indicators	HSDPIII Target	2nd year of HSDPIII
Primary health service coverage	100%	86.7%
Number of HEW's deployed and in place	30,000	17,653
Contraceptive acceptance rate	>=60	33.3%
Antenatal coverage	80%	52.1%
Proportion of deliverers attended by skilled health personnel's	32%	16.4%
Postnatal coverage	31%	19%
Immunization coverage under 1		
DPT3	80%	72.6%
Measles,	75%	64.9 %
Fully immunized children	85%	52.5%
HIV incidence	0.66%	0.28%
HIV Prevalence	Main- tain 3.5%	2.1
Proportion of hospitals, HC, and clinics Providing VCT service	100%	63.6%
Proportion of hospitals, HC, and clinics Providing PMTCT service	100%	38.2%
Number of PLWHA receiving ART	263,000	71,773
OPD visit per capita	0.5	0.32
Health staff to population ratio		
Doctors to population	1:14,662	1:42,706
Nurse to population		1:4,207
Health extension worker to population	1:2,500	1:4,369

4 .Demography and Vital Statistics

4.1 Demographic Indicators 1999 E.C

Regions	Total	Male	Female	Sex ratio	Urban%	Under one%	Surviving infants%	Under 5%	Female 15-49%	Dependency ratio	Average HH Size
Tigray	4,449,000	2,193,000	2,256,000	97.2	19.2	3.6	3.2	16.7	23.5	95.1	4.3
Afar	1,418,000	787,000	631,000	124.7	9.3	2.8	3.2	14.1	22.4	91.7	5.7
Amhara	19,624,000	9,805,000	9,819,000	99.9	11.7	3.2	3.2	16.4	23.4	92.3	4.5
Oromia	27,304,000	13,626,000	13,678,000	99.6	13.5	3.3	3.2	17.2	23.3	100	4.8
Somali	4,444,000	2,384,000	2,060,000	115.7	17.3	3.3	3.3	15.3	23.1	110.2	6.6
Ben-Gumuz	640,000	322,000	318,000	101.3	10.0	3.3	3.3	16.2	24.3	34.9	4.5
SNNPR	15,321,000	7,619,000	7,702,000	98.9	8.7	3.3	3.3	17.4	23.8	96.6	4.7
Gambella	253,000	129,000	124,000	104.0	19.4	2.9	3.3	14.9	26.8	75.9	4.5
Harari	203,000	104,000	99,000	105.1	62.6	3.1	3.3	14.9	26.5	69.7	4.3
Addis Ababa	3,059,000	1,469,000	1,590,000	92.4	100.0	2.2	3.3	10.4	34.4	52.3	5.1
Dire Dawa	412,000	206,000	206,000	100.0	74.8	2.9	3.3	15.6	27.3	67.8	4.7
National	77,127,000	38,644,000	38,483,000	100.4	16.5	3.2	3.3	16.5	23.9	84.3	4.8

4.2 VITAL STATISTICS, 1999

Regions	Population	CBR per 1000	RNI	TFR	IMR per 1000	CMR per 1000	Under 5 MR per 1000	Male LE	Female LE
Tigray	4,449,000	37.3	2.70	5.1	67	42	106	52.0	54.9
Afar	1,418,000	37.3	2.20	4.9	61	66	123.00	56.9	50.8
Amhara	19,624,000	37.3	2.70	5.1	94	66	154.00	53.4	56.0
Oromia	27,304,000	37.3	2.90	6.2	76	51	122.00	53.0	55.5
Somali	4,444,000	37.3	2.60	6.0	57	39	93.00	58.7	55.4
Ben-Gumuz	640,000	37.3	2.50	5.2	84	80	157.00	50.1	51.1
SNNPR	15,321,000	37.3	2.90	5.6	85	63	142.00	51.4	53.5
Gambella	253,000	37.3	2.60	4.0	92	70	156.00	57.6	58.3
Harari	203,000	35.7	2.40	3.8	66	40	103.00	55.6	54.7
Addis Ababa	3,059,000	35.7	1.50	1.4	45	28	72.00	60.3	64.1
DireDawa	412,000	35.7	2.50	3.6	71	70	136.00	54.1	55.8
National	77,127,000	35.7	2.70	5.4	77	50	123.00	53.4	55.4

*Maternal mortality ratio is 673 per 100,000 live births there is no desegregation by region

Source: CSA, Demographic and Health Survey ,2005

4.3 DEMOGRAPHIC DATA AND ESTIMATES FOR SOME COUNTRIES OF THE WORLD

	population mid-2007 (millions)	CBR	CDR	RNI	Projected population (millions)		IMR	TFR	%age of Population of age			L.E. at birth (year)		% of pop. ages 15-49 with HIV/AIDS 2005/2006	% of Married women 15-49 using contraceptive		% of children age 5 under weight	GNIPP per Capita (US\$) 2006
					Mid 2025	Mid 2050			<15	65+	Total	M	F		All Methods	Modern Methods		
WORLD	6,625	21	9	1.2	7,965	9,294	52	2.7	28	7	68	66	70	0.9	62	54	23	9,940
More developed	1,221	11	10	0.1	1,254	1,259	6	1.6	17	16	77	73	80	0.5	68	58	-	29,680
Less Developed	5,404	23	8	1.5	6,711	8,036	57	2.9	31	6	66	64	67	1.1	60	53	24	5,480
Less Developed (exc.china)	4,086	27	9	1.8	5,235	6,599	61	3.3	34	5	64	62	65	1.4	51	43	28	4,760
Africa	944	38	14	2.4	1,359	1,953	86	5	41	3	53	52	54	4.5	28	22	24	2,550
Sub-Saharan Africa	788	41	16	2.5	1,160	1,716	92	5.5	43	3	49	48	50	5.4	22	16	26	2,000
Northern Africa	195	26	7	1.9	253	310	42	3.1	33	5	68	67	70	0.4	50	44	15	4,660
Western Africa	283	42	15	2.7	419	616	98	5.7	44	3	51	50	51	3.0	13	8	27	1,330
Eastern Africa	294	41	15	2.5	438	650	83	5.5	44	3	48	48	49	6.2	25	20	25	1,180
Burundi	8.5	46	16	3.0	15	28.3	107	6.8	45	3	49	47	50	3.3	16	10	39	710
Comoros	0.7	37	7	2.9	1.0	1.5	59	4.9	42	3	64	62	66	<0.1	26	19	25	2,010
Djibouti	0.8	30	12	1.8	1.1	1.5	67	4.2	39	3	54	53	55	3.1	18	17	29	2,540
Eritrea	4.9	40	10	3	7.7	11.5	59	5.3	43	2	57	54	59	2.4	8	5	35	1,090
Ethiopia	77.1	40	15	2.5	108.7	145.9	77	5.4	43	3	49	48	50	1.4	15	14	35	1,190
Kenya	36.9	40	12	2.8	51.3	65.2	77	4.9	42	2	53	53	53	6.1	39	32	17	1,300
Madagascar	18.3	40	12	2.7	28.2	41.8	79	5.2	45	3	57	55	59	0.5	27	17	37	960
Malawi	13.1	46	18	2.8	20.6	30.9	96	6.3	46	3	40	40	40	12.7	42	39	19	720
Mauritius	1.3	14	7	0.7	1.4	1.5	14.4	1.7	24	7	72	69	76	0.6	76	42	-	13,500
Mauyotte	0.2	39	3	3.6	0.3	0.6	-	4.5	42	2	74	72	76	-	-	-	-	-
Mozambique	20.4	41	20	2.1	27.5	37.2	108	5.4	43	3	43	42	44	16.1	17	12	21	1,220
Renunion	0.8	19	6	1.3	1	1.1	7	2.4	27	7	76	72	80	-	70	-	-	-
Rwanda	9.3	43	16	2.7	14.6	21.7	86	6.1	46	3	47	47	48	3.0	17	10	23	1,270

Cont...

Cont...

Cont...	population mid-2007 (millions)	CBR	CDR	RNI	Projected population (millions)		IMR	TFR	%age of Population of age		LE at birth (year)		% of pop. ages 15-49 with HIV/AIDS 2005/2006	%of married women 15-49 using contraceptive		% of children under weight	GNIPPP per capita (US\$) 2006
					Mid 2025	Mid 2050			<15	65+	M	F		All Methods	Modern Methods		
										Total							
Seychelles	0.1	17	8	1.0	0.1	0.1	11	2.1	25	8	72	67	77				16,590
Somalia	9.1	46	17	2.9	14.9	25.5	117	6.8	45	3	48	46	50	8	1	23	
Tanzania	38.7	40	15	2.6	57.4	81.5	78	5.4	44	3	50	49	51	26	20	17	740
Uganda	28.5	48	16	3.1	55.9	117	83	6.7	50	3	47	47	47	24	18	20	1,490
Zambia	11.5	41	22	1.9	14.8	18.4	100	5.5	46	2	38	38	37	34	23	23	1,000
Zimbabwe	13.3	31	21	1.1	16	19.1	60	3.8	41	3	37	38	37	60	58	17	1,940
Middle Africa	118	46	18	2.8	191	315	113	6.3	46	3	46	45	47	25	6	29	1,370
Southern Africa	55	24	16	0.8	58	62	46	2.8	33	4	50	48	51	58	58	11	11,210
Northern America	335	14	8	4	387	462	6	2	20	12	78	75	81	72	69	1	43,290
Latin America / Caribbean/	569	21	6	1.5	691	784	24	2.5	30	6	73	70	76	71	62	5	8,630
Central America	148	23	5	1.8	181	205	23	2.7	33	5	74	72	77	66	58	6	9,700
Caribbean	40	19	8	1.1	46	51	32	2.5	28	8	71	69	73	59	55	11	
South America	381	21	6	1.5	463	528	24	2.4	29	6	72	69	76	75	66	4	8,790
Asia (excl.China)	4,010	19	7	1.2	4,768	5,378	48	2.4	28	6	68	67	70	66	60	27	6,630
Western Asia	223	26	6	2	292	367	41	3.4	34	5	70	68	72	51	33	12	8,180
South Central Asia	1,662	25	8	1.7	2,080	2,601	64	3	34	5	63	63	64	54	45	41	3,620
South East Asia	574	21	7	1.4	691	778	32	2.5	29	5	69	66	71	59	52	21	4,930
East Asia	1,550	12	7	0.5	1,705	1,632	5	1.6	19	9	73	72	75	84	82	6	10,270
Europe	733	10	11	-0.1	719	669	6	1.5	16	16	75	71	79	67	53		22,690
Western Europe	187	10	9	0.1	191	187	4	1.6	16	17	80	77	83	74	70		32,740
Eastern Europe	295	10	14	-0.4	271	229	9	1.3	15	14	69	63	74	63	42		11,610
Southern Europe	153	10	9	0.1	153	144	5	1.4	15	18	79	76	82	58	42		24,270
Oceania	35	18	7	1	42	49	27	2.1	25	10	75	73	78	59			23,320

Source: 2007 World Population Data Sheet of the Population Reference Bureau (PRB) Book Edition, June 2007G.C.

Note:- all years indicated are in GC

5. MATERNAL AND CHILD HEALTH SERVICE

5.1 IMMUNIZATION COVERAGE BY ANTIGEN,1999

Regions	Total population	Live Births	Surviving Infants	DPT3		Measles		Fully immunized	
				achieved	Cov	achieved	Cov	achieved	Cov.
Tigray	4,449,000	165,948	154,825	133,435	86.2	125,034	80.76	114,300	73.8
Afar	1,418,000	52,891	49,630	21,153	42.6	14,715	29.65	14,715	29.6
Amahara	19,624,000	731,975	663,292	485,624	73.2	448,122	67.56	337,118	50.8
Oromia	27,304,000	1,018,439	941,032	700,424	74.4	572,873	60.88	480,281	51.0
Somali	4,444,000	165,761	156,318	22,840	14.6	28,861	18.46	14,790	9.5
Ben-Gumuz	640,000	23,872	21,888	18,297	83.6	14,927	68.20	9,646	44.1
SNNPR	15,321,000	571,473	522,890	477,913	91.4	455,233	87.06	365,520	69.9
Gambella	253,000	9,437	8,569	2,966	34.6	3,404	39.72	3,390	39.6
Hararie	203,000	4,750	6,765	4,619	68.3	4,051	59.88	3,603	53.3
Addis Ababa	3,059,000	71,581	104,297	44,618	42.8	40,194	38.54	38,003	36.4
Dire Dawa	412,000	9,641	13,781	8,204	59.5	7,059	51.22	5,985	43.4
National	77,127,000.00	2,753,434	2,643,287	1,920,093	72.6	1,714,473	64.9	1,387,351	52.5

FIG 1 TREND IN DPT 3 COVERAGE, MEASLES IMMUNIZATION COVERAGE AND PERCENTAGE OF FULLY IMMUNIZED CHILDREN (ETHIOPIA,1994-99)

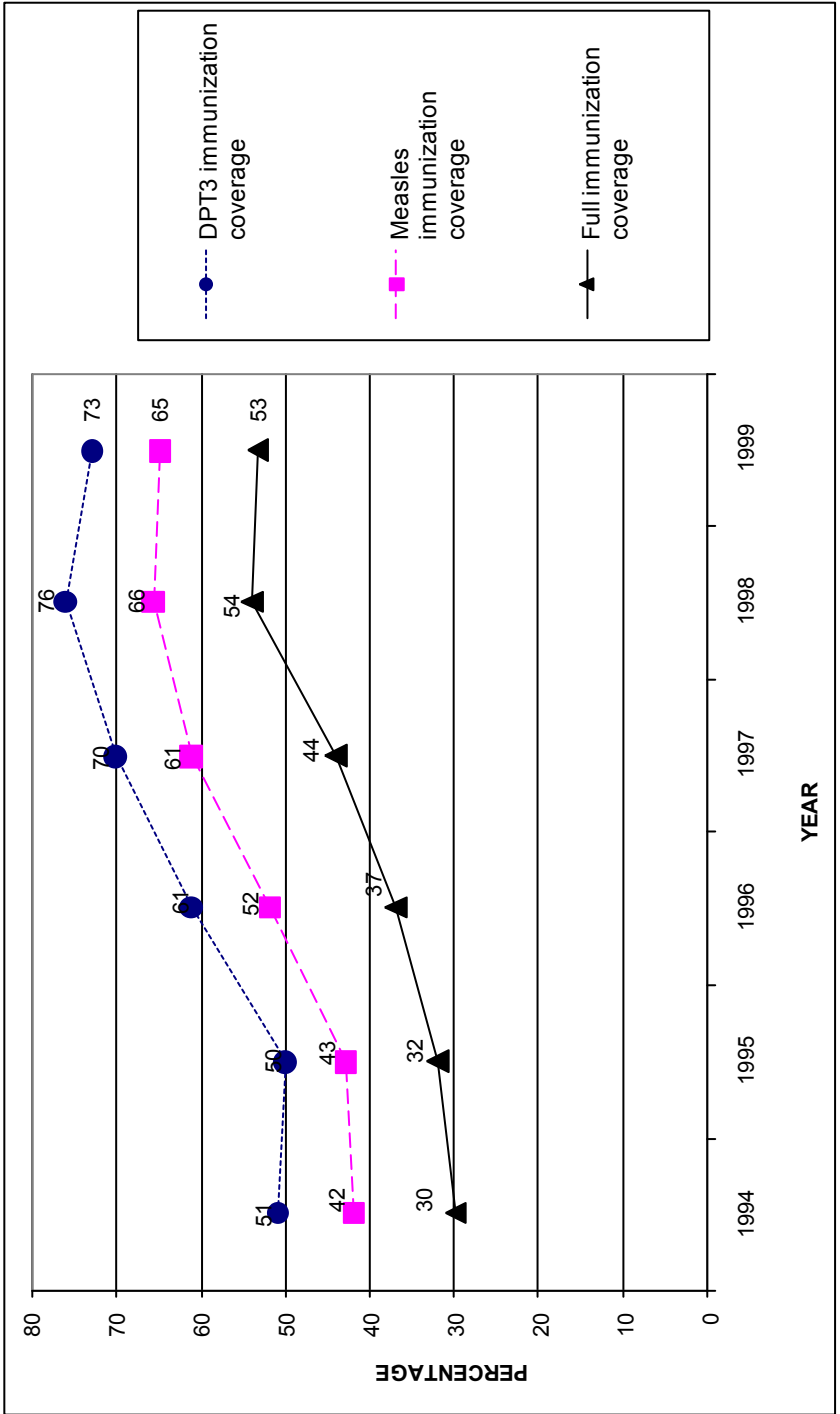
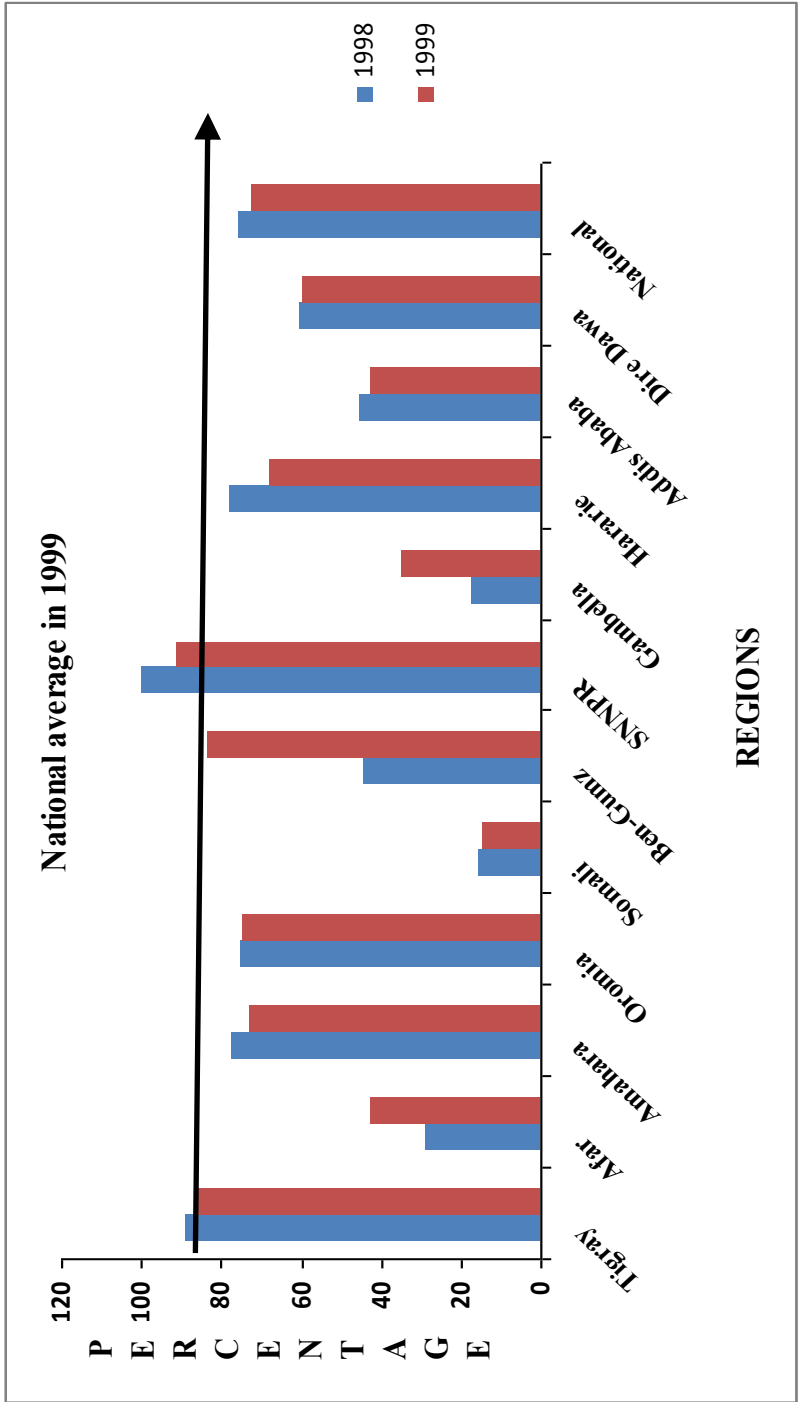


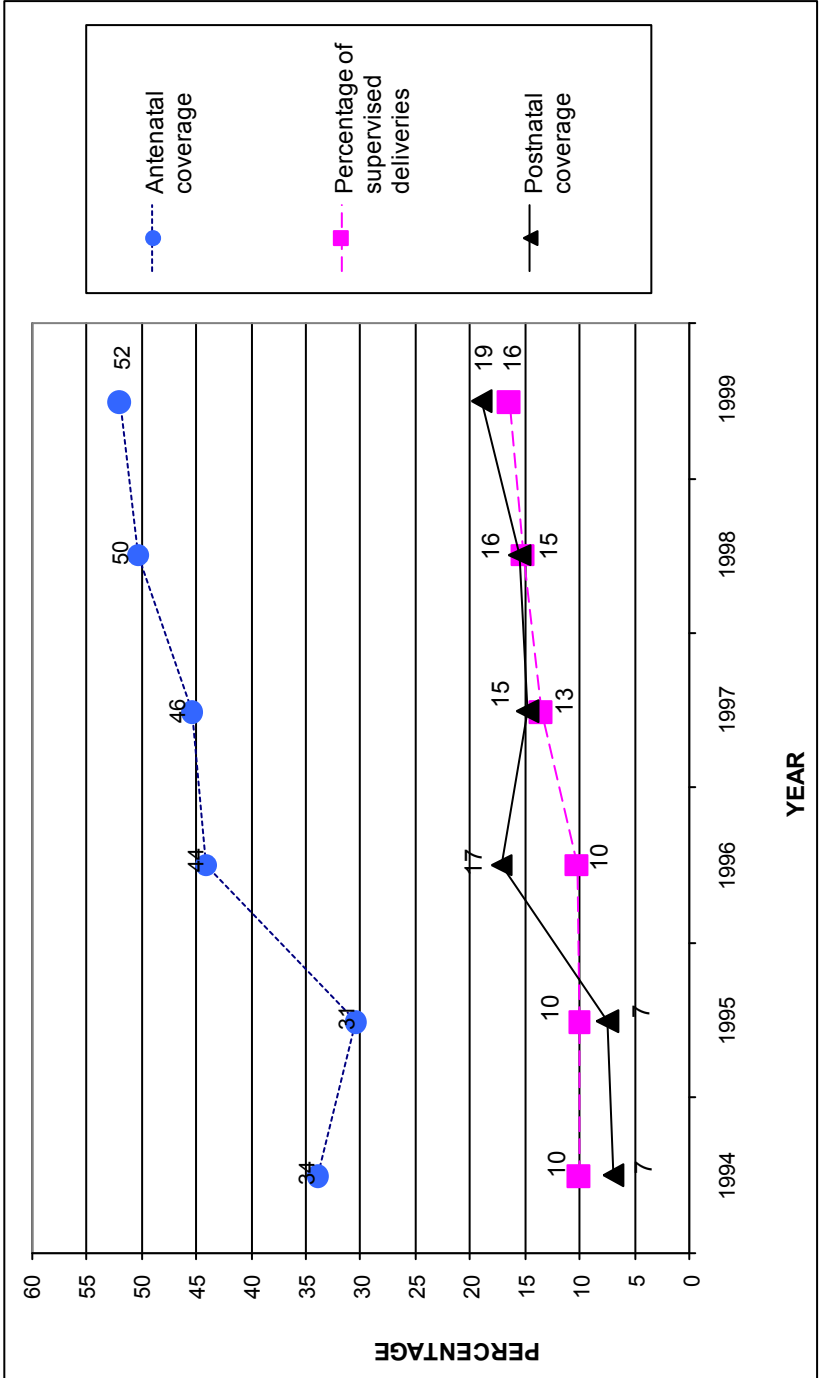
FIG. 2 COMPARISON OF DPT3 COVERAGE BY REGION (ETHIOPIA, 1998 AND 1999)



5.2 MATERNAL HEALTH SERVICE ACHIEVEMENT & COVERAGE BY REGIONS,1999

Regions	Expected Delivery	Antenatal		deliveries attended by skilled health personnel		deliveries Attended by HEWs		Postnatal service		Non pregnant women		family planning	
		achieved	Cov	achieved	Cov	achieved	Cov	achieved	Cov	achieved	Cov	Acceptors	Cov
Tigray	165,948	148,555	89.5	21,158	12.7	7,196	4.3	67,367	40.6	849,759	466,434	54.9	
Afar	52,891	10,132	19.2	5,404	10.2	0	0.0	2,431	4.6	269,704	19,000	7.0	
Amhara	731,975	362,288	49.5	57,875	7.9	89,779	12.3	151,842	20.7	3,816,868	1,616,023	42.3	
Oromia	1,018,439	404,559	39.7	123,332	12.1	105,163	10.3	110,322	10.8	5,225,985	1,365,799	26.1	
Somali	165,761	10,964	6.6	8,277	5.0	0	0.0	1,223	0.7	866,135	15,564	1.8	
Ben-Gumuz	23,872	4,989	20.9	1,448	6.1	37	0.2	345	1.4	129,920	13,851	10.7	
SNNPR	571,473	421,515	73.8	202,753	35.5	NA	NA	163,922	28.7	2,993,724	1,036,287	34.6	
Gambella	9,437	4,582	48.6	506	5.4	0	0.0	784	8.3	58,999	9,561	16.2	
Hararie	4,750	3,792	79.8	3,325	70.0	0	0.0	2,422	51.0	46,568	28,201	60.6	
Addis Ababa	71,581	57,988	81.0	23,678	33.1	0	0.0	21,365	29.8	982,857	468,020	47.6	
Dire Dawa	9,641	5,612	58.2	3,944	40.9	63	0.7	1,194	12.4	97,232	73,798	75.9	
National	2,753,434	1,434,976	52.1	451,700	16.4	202,238	7.3	523,217	19	15,337,751	5,112,538	33.3	

FIG. 3 TREND ANC COVERAGE PERCENTAGE OF DELIVERERS ATTENDED BY SKILLED HEALTH PERSONNEL AND PNC COVERAGE



5.3 AMOUNT OF CONTRACEPTIVE DISTRIBUTION BY TYPE OF CONTRACEPTIVE, 1999
5.3 .1 DISTRIBUTION OF CONTRACEPTIVE BY FMOH & NGO

Contraceptive by type	Unit	MOH	DKT	Pathfinder International	FGAE	Total	CYP	%CYP
Microgynon	cycle	17,835	566,334	267,624	193,308	1,045,101	70,022	1.71
Prudence	cycle	0	48,934			48,934	3,279	0.08
Rosel blue lady					1,442	1,442	94	0.00
EXCLUTON					2,076	2,076	135	0.00
Nordette					2072	2,072	134.68	0.00
ORAL-CON	cycle	0	3,448,210		37,702	3,485,912	233,556	5.69
LO-FEMENAL	cycle	0	0	1,634,522	254,698	1,889,220	126,578	3.09
Overate	cycle	0	0	164,090		164,090	10,994	0.27
postioner	cycle	631200	0	0	12,809	644,009	43,149	1.05
Copper T	psc	0		5,520	2,485	8,005	520	0.01
Foam Tablet					29	29	19	0.00
MVA		0	1,181			1,181	79,127	1.93
Male Condom	pcs	3,617,600	52,307,798	8,273,100	2,772,785	66,971,283	535,770	13.06
Female condom	pes		0	7,776	1,968	9,744	78	0.00
Norplant	set	4,880	0	50,813	351	56,044	196,154	4.78
Jadelle	set	0	1,500	400	769	2,669	26,422	0.64
IUD	insertion	14,324	13,800			28,124	9,342	0.23
Depo-Provera	vial	2,279,000	3,981,930	2,179,880	264,934	8,705,744	2,176,436	53.05
Norestrat					4,096	4,096	1,024	0.23
Megstron	vial	2,060,300	0	6,800		2,067,100	516,775	12.60
Emergency OC		0	10,512	0	0	10,512	1,168	0.03
Total							4,102,787.1	100.00
CYP%		29.8	44.4	22.7	3.1	100		

5.3.2 DISTRIBUTION OF CONTRACEPTIVES BY FMOH TO THE REGIONS,1999

Regions	Norplant	Depo-Provera	Megestron	IUD	Positioner	Microgen	Condom
Tigray	70	167,000	131,200	0	0	0	252,000
Afar		11,000	30,600	0	1,200	0	0
Amhara		356,000	662,200	0	3,000	612	1,980,000
Oromia	900	495,000	533,700	13,200	9,600	16,662	0
Somali		7,000	41,800	0	0	0	0
Ben-Gumuz		0	20,400	0	1,200	0	28,800
SNNPR		282,000	362,600	0	0	0	144,000
Gambela		0	37,000	0	0	0	36,000
Harari		16,000	15,400		1,200	0	0
Addis Ababa		895,000	165,000		594,600	0	0
Dire Dawa		25,000	23,000	300	1,200	0	0
Others	3,910	25,000	37,400	824	19,200	561	1,176,800
Total	4,880	2,279,000	2,060,300	14,324	631,200	17,835	3,617,600

5.4 PERCENTAGE OF CONTRACEPTIVE USERS BY TYPE OF CONTRACEPTIVE METHOD, 1999

Regions	pills			Depo-Provera			Norplant			IUD			Condoms			Other		
	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
Tigray	41.6	39.34	7.2	34.1	33.3	3.4	0.1	0.2	1.9	0.0	0.0	0.0	23.6	27.1	4.1	0.04	0.1	0.0
Afar	NA	21.25	0.1	NA	36.1	0.1	0.0	0.0	0.0	NA	0.0	0.0	NA	42.7	0.2	0	0.0	0.0
Amhara	NA	NA	2.9	NA	NA	4.8	NA	NA	70.3	NA	NA	69.6	NA	NA	1.9	NA	NA	0.0
Oromia	49.3	26.27	NA	37.3	50.2	NA	0.2	2.0	NA	0.0	2.8	NA	11.5	18.6	NA	0.57	0.2	NA
Somali	40.4	37.55	0.1	29.5	43.6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	30.1	18.8	0.2	0	0.0	79.9
Ben-Gu,mz	31.9	38.83	0.4	63.0	54.3	0.7	NA	0.5	0.3	0.0	0.0	0.1	5	6.3	0.3	NA	0.0	20.1
SNNPR	43.9	NA	84.8	4.3	NA	86.3	NA	NA	24.8	0.0	NA	2.4	14	NA	90.5	NA	NA	0.0
Gambella	34.9	17.49	0.1	38.4	55.9	0.1	NA	0.0	0.0	0.0	0.0	0.0	26.8	26.6	0.0	NA	0.0	0.0
Hararie	17.9	20.18	0.3	32.0	39.7	0.3	0.0	1.0	0.1	0.0	0.3	0.1	49.7	38.7	0.3	0	0.0	0.0
Addis Ababa	10	30.93	3.4	22.2	53.2	3.8	0.0	0.2	2.3	0.0	0.4	5.6	2	15.3	2.5	0	0.0	0.0
Dire Dawa	47.9	25.07	0.7	41.6	63	0.4	7.4	0.2	0.3	0.0	1.0	22.2	8.7	10.7	0.0	0.94	0.0	0.0
National	31.6	33.4	29	27.5	47.58	38.5	0.1	0.77	0.4	0.0	1.1	0.4	10.5	19.4	31.2	0.2	0.1	0.0

6. HEALTH INFRASTRUCTURE

6.1 POTENTIAL HEALTH SERVICE COVERAGE, 1999

Regions	Population	HC	NHC+HS	private clinic not for profit	Health post	Private clinic for profit	Potential Health Service Coverage %					
							HC&NHS	HC,NHS &PC for non profit	HC,NHS Hp &non profit PC	HC, NHS,HP & PC for profit	HC,NHS, HP non profit PC &PC for profit	
Tigray	4,449,000	42	113	16	529	25	49.0	50.8	105.6	107.4	108.5	110.2
Afar	1,418,000	14	45	6	154	22	56.4	58.5	110.7	112.8	118.5	120.6
Amhara	19,624,000	169	122	69	2,590	380	27.7	29.5	88.8	90.6	98.5	100.2
Oromia	27,304,000	202	701	195	1,985	575	44.2	47.7	73.1	76.6	83.6	87.2
Somali	4,444,000	19	95	0	149	2	32.1	32.1	48.8	48.8	49.1	49.1
Ben-Gumuz	640,000	14	94	8	88	49	201.6	207.8	207.8	214.1	246.1	252.3
SNNPR	15,321,000	163	167	77	4,258	208	37.5	40.0	40.0	114.4	118.6	121.1
Gambella	253,000	9	26	0	64	14	191.7	191.7	268.8	268.8	296.4	296.4
Hararie	203,000	3	3	10	22	22	51.7	76.4	105.9	130.5	160.1	184.7
Addis Ababa	3,059,000	28	7	8	37	442	25.2	26.5	31.2	32.5	103.5	104.8
Dire Dawa	412,000	7	3	8	38	17	49.8	59.5	59.5	69.2	80.1	89.8
National	77,127,000	670	1376	397	9,914	1,756	30.5	31.8	86.7	89.3	98.1	103.2

6. 2 DISTRIBUTION OF HEALTH INFRASTRUCTURE, 1999

Regions	Hospital			Health Center				NHC +HS	Health post	Private clinic not for profit	
	MOH	Others**	Total	Beds	MOH	Other*	Total				beds
Tigray	13	3	16	1,417	41	1	42	380	113	529	16
Afar	2	0	2	122	14	0	14	0	45	154	6
Amhara	16	3	19	1,615	169	0	169	369	122	2,590	69
Oromia	22	8	30	3,513	197	5	202	NA	701	1,985	195
Somali	6	0	6	436	20	0	20	276	95	149	0
Ben-Gumuz	2	0	2	205	15	0	15	150	94	88	8
SNNPR	14	6	18	1,897	176	4	180	NA	167	4,258	77
Gambella	1	0	1	100	5	4	9	50	26	64	0
Hararie	2	2	4	710	3	0	3	30	3	22	10
Addis Ababa	5	25	30	927	24	5	29	180	7	37	8
Dire Dawa	1	3	4	232	7	0	7	60	3	38	8
Central	4	5	9	2,460	0	0	0	0	0	0	0
National	88	55	143	13,677	671	19	690	1495	1,376	9,914	397

**private, OGO and NGO hospital

* facilities owned by OGA & NGO

Note: no. of beds from Addis Ababa & Dire Dawa does not include private& other hospitals

6.3 DISTRIBUTION OF HOSPITALS BY TYPE AND OWNERSHIP,1999

Regions	Hospitals							Total
	MOH			Others				
	Zonal	District	Specialized	OGA	OGA	NGO	Private	
			MOH					
Tigray	6	6	1	0	1	1	1	16
Afar	1	1	0	0	0	0	0	2
Amhara	4	10	2	1	0	0	2	19
Oromia	14	8	0	0	4	4	0	30
Somali	3	3	0	0	0	0	0	6
Ben-Gumz	1	1	0	0	0	0	0	2
SNNPR	6	7	1	0	0	4	2	20
Gambella	0	1	0	0	0	0	0	1
Hararie	2	0	0	0	2	0	0	4
Addis Ababa	5	0	0	0	0	0	25	30
Diredawa	0	1	0	0	1	0	2	4
Central	0	0	4	1	2	2	0	9
Total	42	37	8	2	10	10	31	143

6.4 DISTRIBUTION OF PRIVATE OWNED CLINCS BY TYPE AND REGION, 1999

Regions	Type of clinic				Total
	Special	Higher	Medium	Lower	
Tigray	0	2	4	19	25
Afar	0	0	17	5	22
Amhara	8	23	71	278	380
Oromia	7	21	84	463	575
Somali	0	0	1	1	2
Ben-Gumuz	0	0	11	38	49
SNNPR	2	10	27	169	208
Gambella	0	0	2	12	14
Hararie	0	1	16	5	22
Addis Ababa	94	99	146	103	442
Dire Dawa	0	5	7	5	17
National	111	161	386	1,098	1,756

**6.5 DISTRIBUTION OF PHARMACEUTICAL RETAIL OUTLETS, DRUG & MEDICAL
SUPPLIES BY REGION, 1999**

Regions	pharmacies	Drug shop	Rural Drug Vender	Drugs and Medical Supply		
				Importer & distributors	producer	Total
Tigray	106	129	192	3	0	3
Afar	0	20	39	0	0	0
Amhara	28	69	221	4	0	4
Oromia	42	143	1,117	14	0	14
Somali	2	2	55	0	0	0
Ben-Gumuz	0	8	35	0	0	0
SNNPR	20	69	421	4	0	4
Gambella	0	0	16	0	0	0
Harari	4	14	3	0	0	0
Addis Ababa	108	123	0	79	11	90
Dire Dawa	10	0	22	3	0	3
National	320	577	2,121	107	11	118

6.6 HEALTH FACILITY CONSTRUCTION, REHABILITATION & EXPANSION, 1999

Description	Activities									
	Construction		Rehabilitation	Expansion	Upgrading	Equipped	Furnished	Total		
	New	Ongoing								
Hospital	11	5	7	14	8	0	0	45		
Health center	19	25	5	7	0	0	0	56		
Nucleus Health Center	36	192	0	0	228	0	0	456		
Health post	2,645	1,064	5	3	4	0	0	3,721		
Training school	0	0	0	1	0	0	0	1		
Regional health bureau	0	1	1	0	0	0	0	2		
Zonal health department	0	0	0	5	0	0	0	5		
Woreda health office	0	0	0	0	0	0	0	0		
VCT center	4	0	0	0	0	0	0	4		
Regional pharmacy	0	0	1	0	0	0	0	1		
Total	2,714	1,287	19	30	240	0	0	4,291		

7. HUMAN RESOURCE

Profession	Tig	Afar	Amah	Orom	Som	Ben	SNNP	Gamb	Har	A/A	DD	Cent	Priv	NGO	OGA	Total
Physicians	59	10	133	149	53	6	155	4	41	118	31	214	788	11	34	1,806
Female	6	1	17	NA	2	0	21	0	2	18	3	33	60	0	8	171
Health officers	163	16	121	522	23	18	150	10	11	13	8	12	44	7	8	792
Female	13	0	16	NA	2	2	16	1	2	4	3	1	3	0	0	63
Pharmacists	12	4	1	48	6	4	12	2	2	3	5	49	24	0	6	178
Female	3	0	0	NA	0	0	1	0	0	1	1	9	10	0	4	29
Nurses	2,094	208	1,973	3,278	476	397	2,143	156	277	1,201	226	582	538	142	4,455	18,146
Female	1,108	0	687	NA	131	140	954	23	128	882	35	402	457	77	545	5,569
Env.health worker	84	16	304	336	34	12	248	13	8	9	20	20	5	0	0	1,109
Female	7	0	46	NA	5	3	0	0	1	0	3	6	0	0	0	71
Lab. Technologist)	49	0	NA	NA	19	6	18	4	4	7	5	5	0	50	5	172
Female	2	0	NA	NA	4	0	0	0	1	3	2	2	0	15	0	29
Lab.Tech	102	7	259	76	69	27	299	299	26	45	23	73	261	31	47	1,644
Female	40	0	50	NA	6	2	53	53	6	12	NA	21	67	0	26	336
Radiographer	NA	NA	25	41	0	0	0	0	0	0	NA	0	0	0	21	87
Female	NA	NA	1	NA	0	0	0	0	0	0	NA	0	0	0	2	3
pharm.tech	215	25	329	123	0	0	0	0	0	0	NA	15	44	16	256	1,023
Female	72	0	92	NA	0	0	0	0	0	0	NA	7	0	0	0	171
Health assistant	NA	42	647	1,540	97	13	313	10	0	37	19	70	313	58	25	3,184
Female	NA	0	204	NA	15	0	37	0	0	26	NA	33	72	0	58	445
Health ext..worker	1,235	64	5,950	5,553	135	86	4,465	47	39	0	79	0	0	0	0	17,653
FLHW	0	0	1,271	467	0	0	0	0	0	0	0	0	0	0	0	1,738
Female	0	0	262	0	0	0	0	0	0	0	0	0	0	0	0	262
social worker	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3
Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	0	0	0	0	0	0	0	0	0	0	0	38	73	0	42	153
Female	0	0	0	0	0	0	0	0	0	0	0	0	30	0	20	50
TOTAL	5,265	393	11,013	12,133	1,077	716	8,885	622	548	2,379	463	1,594	2,789	407	5,562	55,373

Note: No of Health officers reported from region is 792 how ever from the national source the total number is found to be 1151

7.2 DISTRIBUTION OF PHYSICIANS BY SPECIALIZATION AND REGION,1999

Profession	Tig	Afar	Amah	Orom	Som	Ben	SNNP	Gamb	Har	A/A	DD	Cent	Private	OGA	NGO	Total
Specialists	41	1	50	120	9	1	57	2	18	46	10	72	534	4	9	974
Internist	4	0	3	4	1	0	1	0	1	5	0	4	45	0	2	70
Surgeon	6	0	7	2	2	0	14	1	3	12	2	14	33	0	2	98
Pediatricians	2	0	4	0	2	0	0	0	1	6	2	6	50	0	2	75
Gynecologist	4	1	7	0	2	0	12	1	3	11	3	6	58	3	3	114
Ophthalmologist	1	0	5	1	1	0	2	0	1	2	1	18	20	1	0	53
Orthopedist	1	0	2	2	0	0	0	0	0		1	2	4	0	0	12
ENT Specialist	0	0	0	0	0	0	0	0	0	2	0	4	4	0	0	10
Anesthesiologist	0	0	4	0	0	0	10	0	1	1	0	2	5	0	0	23
Dentist	0	0	1	2	0	0	0	0	1	1	0	0	35	0	0	40
Radiologist	1	0	0	1	0	0	0	0	1	1	0	2	13	0	0	19
Physiotherapist	0	0	0	0	0	0	0	0	2	2	0	6	0	0	0	10
Pathologist	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3
Neurologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anatomist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physiologist	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Public health	21	0	17	107	0	0	0	0	4	1	1	0	0	0	0	151
Dermatologist	0	0	0	0	1	0	0	0	0	0	0	8	0	0	0	9
Pharmacologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Psychiatrist	0	0	0	1	0	1	18		0	0	0	0	267	0	0	287
G.P	18	9	83	29	44	5	98	2	23	72	21	142	254	7	25	832
Total	59	10	133	149	53	6	155	4	41	118	31	214	788	11	34	1,806

7.3 DISTRIBUTION OF NURSES BY SPECIALITY, REGION AND SEX, 1999

Regions	Nurse BSc		Midwife Nurse		Psychiatry Nurse		Anaesthist nurse		Dental Nurse		clinical & staff nurse		Public health nurse		other nurse		Total	
	BS	F	BS	F	BS	F	BS	F	BS	F	BS	F	BS	F	BS	F	BS	F
Tigray	51	5	13	10	6	4	15	1	2	0	1,905	1,005	0	0	102	83	2,094	1,108
Afar	2	0	22	0	0	0	0	0	0	0	173	0	11	0	0	0	208	0
Amhara	12	2	141	74	4	1	11	1	0	0	1,605	524	148	66	52	19	1,973	687
Oromia	21		253		0	0	4	0	2		2,590	0	384	0	24		3,278	0
Somali	21	2	59	50	1	0	4	0	1	0	364	77	21	0	5	2	476	131
Ben-Gumuz	12	2	38	20	2	0	5	1	1	0	260	93	66	11	13	13	397	140
SNNPR	23	7	223	92	18	5	14	4			1,569	761	283	82	13	3	2,143	954
Gambella	7	0	9	3	2	1	2	1	0	1	126	17	9	0	1	0	156	23
Harari	4	1	43	20	2	1	3	1	0	0	217	102	2	0	6	3	277	128
Addis Ababa	13	8	91	72	4	2	30	17	3	3	928	693	23	13	109	74	1,201	882
Dire Dawa	9	4	31	28	5	1	4	1	0	0	143	0	32	0	2	1	226	35
Central	7	3	11	11	14	8	19	10	2	1	450	312	0	1	79	56	582	402
NGO	2	0	0	0	8	0	0	0	0	0	131	77	0	0	1	0	142	77
OGA	67	12	38	2	17	8	89	9	11	4	3,707	186	54	6	428	318	4,455	545
Private	2	0	53	53	6	4	3	0	9	3	448	387	6	3	11	7	538	457
National	202		1012		83		188		29		12,711		1,039		744		18,146	

Other nurse includes ophthalmic nurse, OR nurse, pediatric nurse, head nurse, tutor nurse & MCH

7.4 HEALTH PROFESSIONAL TO POPULATION RATIO BY REGION,1999

Region	Population	Physicians		Physicians & health officer		Senior nurse		Senior and Junior Nurse		Environmental Health worker		Health extension worker	
		No	ratio	No	ratio	No	ratio	No	ratio	No	ratio	No	ratio
Tigray	4,449,000	59	75,407	222	20,041	1,005	4,427	2,094	2,125	84	52,964	1,235	3,602
Afar	1,418,000	10	141,800	26	54,538	115	12,330	208	6,817	16	88,625	64	22,156
Amhara	19,624,000	133	147,549	406	48,335	1,253	15,662	1,973	9,946	304	64,553	5,950	3,298
Oromia	27,304,000	149	183,248	671	40,692	2,150	12,700	3,278	8,329	336	81,262	5,553	4,917
Somali	4,444,000	53	83,849	76	58,474	182	24,418	476	9,336	34	130,706	135	32,919
Ben-Gumuz	640,000	6	106,667	24	26,667	102	6,275	397	1,612	12	53,333	86	7,356
SNNPR	15,321,000	155	98,845	305	50,233	958	15,993	2,143	7,149	248	61,778	4,465	3,431
Gambella	253,000	4	63,250	14	18,071	47	5,383	156	1,622	13	19,462	47	5,383
Harari	203,000	41	4,951	52	3,904	217	935	277	733	8	25,375	39	5,205
Addis Ababa	3,059,000	118	25,924	131	23,351	396	7,725	1,201	2,547	9	339,889	0	-
Dire Dawa	412,000	31	13,290	39	10,564	12	34,333	226	1,823	20	20,600	79	5,215
Cent, priv.,NGO,OGA		1047		1,118	-	4,822	-	5,717	-	25		0	
National	77,127,000	1,806	42,706	3,048	25,009	11,259	6,850	18,146	4,250	1,109	69,546	17,653	4,309
WHO standard			1:10,000					1:5,000					

8. BUDGET ALLOCATION & EXPENDITURE

8.1 REGIONAL RECURRENT HEALTH BUDGET ALLOCATION AND EXPENDITURE, 1999

Regions	Budget	Expenditure	%Expenditure
Tigray	93,410,000	94,500,000	101.2
Afar	26,160,000	24,300,000	92.9
Amhara	184,520,000	188,630,000	102.2
Oromia	275,240,000	266,270,000	96.7
Somali	43,600,000	42,880,000	98.3
Ben-Gumuz	2,540,000	25,620,000	100.9
SNNPR	321,650,000	157,460,000	49.0
Gambella	20,800,000	9,400,000	45.2
Harari	15,210,000	15,270,000	100.4
Addis Ababa	76,480,000	79,770,000	104.3
DireDawa	17,780,000	13,570,000	76.3
Federal FMOH	22,034,100	18,916,210	85.8
NATIONAL	1,122,284,100	936,586,210	83.5

8.2 REGIONAL CAPITAL BUDGET ALLOCATION & EXPENDITURE, 1999

Regions	Budget	Expenditure	%Expenditure
Tigray	14,880,000	7,550,000	50.7
Afar	13,540,000	3,970,000	29.3
Amhara	51,180,000	25,480,000	49.8
Oromia	123,900,000	113,590,000	916.8
Somali	34,740,000	33,880,000	97.5
Ben-Gumuz	6,290,000	1,380,000	21.9
SNNPR	53,890,000	52,450,000	97.3
Gambella	3,910,000	5,800,000	148.3
Harari	4,900,000	0	0
Addis Ababa	52,590,000	2,270,000	4.3
DireDawa	45,600,000	880,000	1.9
Federal	22,588,800	12,486,588	55.3
National	386,968,800	259,736,588	67.1

8.3 PUBLIC HEALTH EXPENDITURE PER CAPITA BY REGION, 1999

Regions	Population	Budget allocation	Total Expenditure	Per capita
Tigray	4,449,000	108,290,000	102,050,000	22.9
Afar	1,418,000	39,700,000	28,270,000	19.9
Amhara	19,624,000	235,700,000	214,110,000	10.9
Oromia	27,304,000	399,140,000	379,860,000	13.9
Somali	4,444,000	78,340,000	76,760,000	17.3
Ben-Gumuz	640,000	31,690,000	27,000,000	42.2
SNNPR	15,321,000	375,540,000	163,260,000	10.7
Gambella	253,000	24,710,000	13,310,000	52.6
Harari	203,000	20,110,000	15,270,000	75.2
Addis Ababa	3,059,000	129,070,000	82,040,000	26.8
DireDawa	412,000	63,380,000	14,450,000	4.7
Federal FMOH		44,622,900	31,402,798	
National	77,127,000	1,550,292,900	1,196,322,798	15.5

8.4 NATIONAL RECURRENT BUDGET ALLOCATION AND EXPENDITURE, 1989-1999

Year	Allocation	Expenditure	%Expenditure	%National
1989	362,590,000	333,340,000	91.9	6.0
1990	379,800,000	394,264,000	103.8	5.5
1991	478,870,000	455,807,000	95.2	5.6
1992	406,799,000	398,412,486	97.9	3.5
1993	466,110,000	444,380,000	95.3	4.0
1994	549,608,500	522,000,000	95.0	4.3
1995	1,020,100,000	526,600,000	51.6	7.4
1996	652,530,000	532,172,000	81.6	5.2
1997	986,089,000	873,820,000	88.6	6.6
1998	822,600,000	801,203,000	97.4	8.5
1999	1,122,284,100.00	936,586,210.00	83.5	10.8

Source: ministry of finance and economic development

8.5 NATIONAL CAPITAL BUDGET ALLOCATIONS AND EXPENDITURE 1990-1999

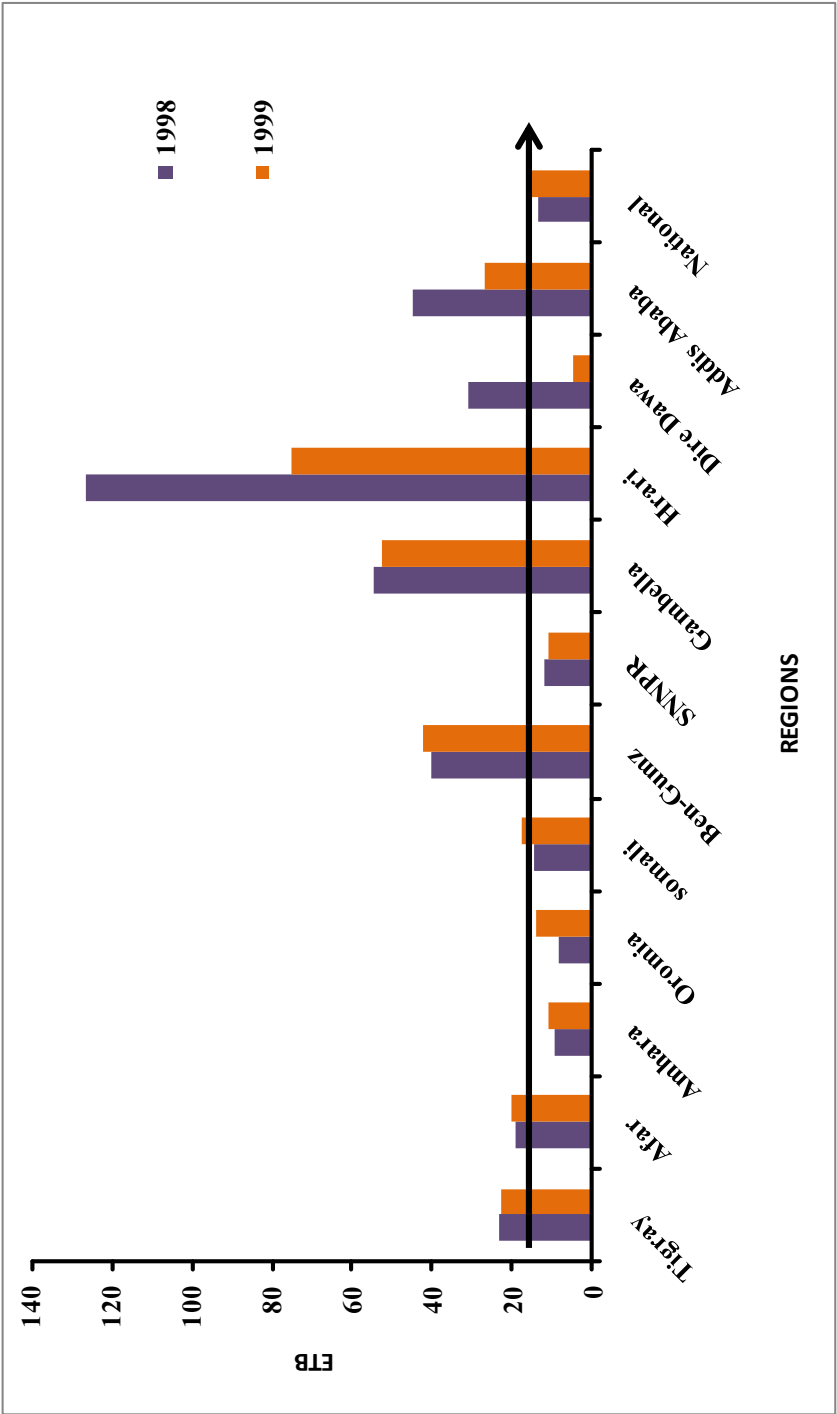
Year	Allocation	Expenditure	%Expenditure	%National
1990	354,200,000	276,910,000	78.2	6.6
1991	303,100,000	648,390,000	213.9	4.9
1992	360,537,000	176,700,000	49.0	4.8
1993	756,220,000	305,350,000	40.4	13.6
1994	503,565,855	235,100,000	46.7	8.4
1995	517,900,000	297,800,000	57.5	7.2
1996	517,810,000	378,416,000	73.1	6.4
1997	689,354,000	355,850,000	51.6	4.9
1998	361,440,000	198,367,000	54.9	6.5
1999	386,968,800	259,736,588	67.1	6.0

8.6 PUBLIC HEALTH EXPENDITURE PER CAPITA, 1990-1999

Year	Population	Budget Allocation	Total Expenditure	ETB
1990	59,882,000	734,000,000	671,174,000	11.2
1991	61,672,000	781,970,000	110,419,7000	17.9
1992	63,495,000	767,336,000	575,112,486	9.1
1993	65,344,000	1,222,330,000	749,730,000	11.5
1994	67,220,000	1,053,174,085	757,100,000	11.3
1995	69,127,021	1,538,000,000	824,400,000	11.9
1996	69,127,021	1,170,340,000	910,588,000	13.2
1997	73,043,510	1,675,443,000	1,229,670,000	16.8
1998	75,067,000	1,258,140,000	999,540,000	13.3
1999	77,127,000	1,438,782,900	1,196,322,798	15.5

Source: Ministry of Finance and Economic Development

**FIG.4 COMPARISON OF PER CAPITA PUBLIC EXPENDITURE ON HEALTH (IN ETB)
BY REGION (ETHIOPIA, 1998-1999**



9. DISEASE STATISTICS

9.1 OUT PATIENT VISIT & ADMISSION DATA ,1999

Regions	Population	Total Out patients	Visit per capita	Total Admission	Admission rate per 1000
Tigray	4,449,000	3,215,143	0.72	36,336	8.17
Afar	1,418,000	170,372	0.12	2,274	1.60
Amhara	19,624,000	4,166,728	0.21	24,521	1.25
Oromia	27,304,000	12,039,826	0.44	414,597	15.18
Somali	4,444,000	455,712	0.10	15,048	3.39
Ben-Gumuz	640000	384,591	0.60	9,040	14.13
SNNPR	15,321,000	2,391,354	0.16	43,505	2.84
Gambella	253000	10,000	0.04	1,611	6.37
Harari	203000	62,915	0.31	9,971	49.12
Addis Ababa	3,059,000	1,359,605	0.44	23,041	7.53
Dire Dawa	412000	92,926	0.23	9,027	21.91
Central		388,352.00		20,008	
National	77,127,000	24,737,524	0.32	689,904	7.90

9.2 NUMBER OF BEDS,DAYS SPENT IN HEALTH FACILITIES,DISCHARGE AND DEATH, 1999

Regions	No of beds	Total length of stay in days	Bed Occupancy rate	Total Discharge	Discharge Dead
Tigray	1,770	156,519	24.2	34,825	1,511
Afar	122	11,370	25.5	1,847	427
Amahara	1,984	147,126	20.3	24,033	488
Oromia	3,513	1,243,791	97.0	387,437	27,160
Somali	712	75,240	29.0	13,378	1,670
Ben-Gumz	355	89,910	69.4	8,991	49
SNNPR	1,897	162,433	23.5	41,029	2,476
Gambella	150	16,110	29.4	1,455	156
Hararie	740	89,826	33.3	9,392	579
Addis Ababa	1,107	134,165	33.2	21,853	1,188
Dire Dawa	292	90,903	85.3	8,564	463
Central	2,460	255,383	28.4	18,337	1,341
National	15,102	2,776,079	44.9	571,141	37,508

9.3 TOP 10 LEADING CAUSES ,1999

9.3.1 TOP 10 LEADING CAUSES OUT PATIENT VISITS

RANK	DIAGNOSIS	Cases	%
1	Acute upper respiratory infections	855,856	5.98
2	Other Helminths	745,730	5.21
3	Gastritis and Duodenitis	743,706	5.20
4	Homicide and injury purposely inflicted by other persons (not in war)	671,458	4.69
5	All other diseases of Genito-Urinary system	637,040	4.45
6	All types of Malaria	608,017	4.25
7	Bronchopneumonia	573,572	4.01
8	Infections of skin and subcutaneous tissue	522,022	3.65
9	Muscular rheumatism and rheumatism unspecified	488,043	3.41
10	Primary atypical, other, unspecified pneumonia	373,113	2.61
	Total of leading causes	6,218,557	43.5
	Total of all disease	14,310,793	100

Top 10 Leading Cause of Outpatient Visit For Females ,1999

RANK	DIAGNOSIS	CASES	%
1	Acute upper respiratory infections	453,463	6.0
2	Homicide and injury purposely inflicted by other persons	390,351	5.0
3	Other Helminthes	384,308	5.0
4	Gastritis and Duodenitis	373,808	5.0
5	All other diseases of Genito-Urinary system	346,791	5.0
6	Bronchopneumonia	303,664	4.0
7	All types of Malaria	289,852	4.0
8	Infections of skin and subcutaneous tissue	83,295	4.0
9	Muscular rheumatism and rheumatism unspecified	255,045	3.0
10	Primary atypical, other, unspecified pneumonia	216,865	3.0
	Total of leading causes	3,297,442	44.0
	Total of all disease	7,524,055	100

Amahara report is not available

9.4 MALARIA CASES BY PARASITE SPECIES, 1999

Region	P.falciparum		total	P.Vivax		Total	Total lab confirmed malaria cases
	<5yrs	>5 yrs		<5yrs	>5yrs		
Tigray	2,119	8,179	10,298	2,336	3,874	6,210	16,508
Afar	5,344	16,503	21,847	2,668	6,253	8,921	30,768
Amahar	9,476	34,990	44,466	5,210	21,193	26,403	70,869
Oromia	5,424	18,370	23,794	5,604	13,591	19,195	42,989
Somali	943	1,132	2,075	420	484	904	2,979
Ben-Gumuz	4,008	9,460	13,468	1,861	3,819	5,680	19,148
SNNPR	27,321	82,508	109,829	16,925	47,767	64,692	174,521
Gambella	2,021	5,662	7,683	107	246	353	8,036
Harari	60	1,386	1,446	32	1,119	1,151	2,597
Addis ababa	94	722	816	93	708	801	1,617
Dire Dawa	60	161	221	30	32	62	283
Total	56,870	179,073	235,943	35,286	99,086	134,372	370,315

9.5 TUBERCULOSIS AND LEPROSY

9.5.1 TUBERCULOSIS CASE FINDING ,1999

Regions	New smear-positive PTB		New smear negative PTB		New EPTB		Total new cases				Re-treat. cases				Total notified Cases		Smear conversion							
	M	F	Total	%	Cases	%	Cases	%	Relapse	Failer	Defaulter	Total	%	Cases	%	Registered	Cases	%	Cases	%	Positive	Negative	No done	
																								Cases
Tigray	1,084	767	1,851	18.0	3,738	36.4	4,679	45.6	10,268	141	25	5	171	1.6	10,439	1,838	1,607	87	50	2.7	1,409	76.7	148	8.1
Afar	763	691	1,454	38.6	1,380	36.7	931	24.7	3,765	30	30	54	114	2.9	3,879	1,066	1,369	128	43	4.0	470	44.1	628	58.9
Amhara	3,653	3,139	6,792	23.8	9,306	32.5	12,494	43.7	28,592	382	29	210	621	2.1	29,213	6,872	6,848	100	160	2.3	4,805	69.9	1,883	27.4
Oromiya	7,398	5,777	13,175	31.7	13,884	33.4	14,448	34.8	41,507	538	58	148	744	1.8	42,251	12,985	11,642	90	177	1.4	8,755	67.4	2,710	20.9
Somali ¹	594	352	946	41.0	784	34.0	577	25.0	2,307	92	10	16	118	4.9	2,425	1,288	972	75	36	2.8	842	65.4	94	7.3
Ben-Gumuz	119	95	214	20.6	375	36.1	450	43.3	1039	8	0	6	14	1.3	1,053	276	174	63	8	2.9	113	40.9	53	19.2
SNNPR	4,809	4,344	9,153	41.1	7,372	33.1	5,754	25.8	22,279	271	42	100	413	1.8	22,692	8,755	8,814	101	175	2.0	7,001	80.0	1,638	18.7
Gambella	151	99	250	35.4	288	40.8	168	23.8	706	28	18	7	53	7.0	759	281	329	117	5	1.8	282	100.4	42	14.9
Hareri	86	77	163	28.5	275	48.2	133	23.3	571	10	1	0	11	1.9	582	142	142	100	0	0.0	119	83.8	23	16.2
Addis Ababa	1,985	1,632	3,617	26	4,880	35	5,256	38	13,950	378	36	73	487	3	14,437	4,014	3,377	123	119	3	2,936	92	322	12
Dire Dawa ¹	181	119	300	26.7	797	71.0	222	19.8	1,122	97	8	9	114	9.2	1,236	396	292	74	5	1.3	240	60.6	47	11.9
TOTAL	20,823	17,092	37,915	30	43,079	34	45,112	36	126,106	1,975	257	628	2,860	2	128,966	37,913	35,338	93	778	2	26,972	71	7,588	20

¹ Incomplete report. 4th quarter report not included.

9. 5. 2 TUBERCULOSIS RESULT OF TREATMENT, 1999

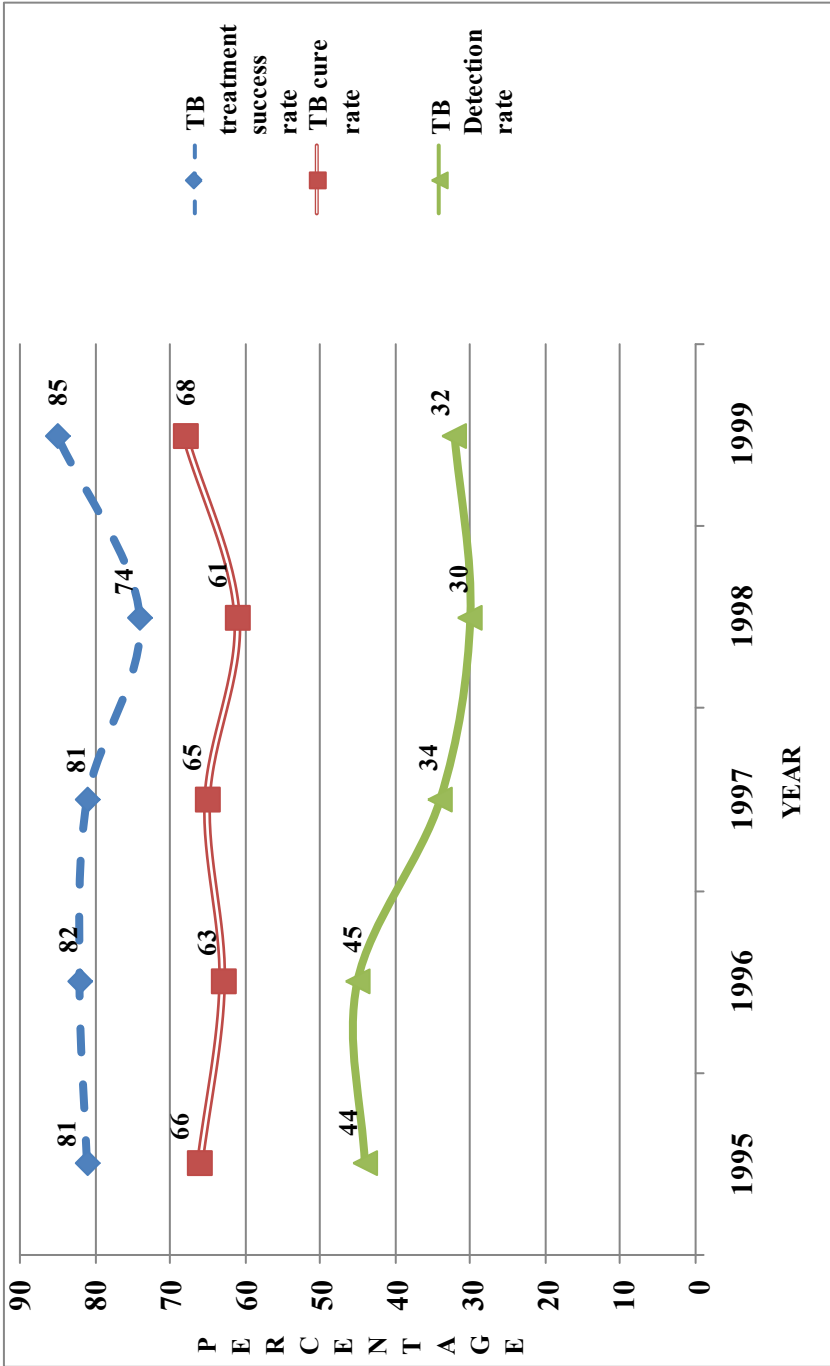
Regions	Classification	Registered		Evaluated		Cure rate		Treatment Completed		Treatment success		Died		Failure		Defaulted		Transfer out	
		Cases	%	Cases	%	Cases	%	Cases	%	Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Tigray	PTB pos	1,903	165	3,132	165	1,338	7	1,090	2,428	128	286	15	22	1	127	7	269	14	
	Re-tret	198	94	47	66	33	11	77	39	10	5	2	1	1	1	4	2		
Afar	PTB pos	1,173	100	1,176	100	576	49	539	1,115	95	27	2	8	1	14	1	12	1	
	Re-tret	158	158	100	70	44	72	142	90	11	7	0	0	0	0	0	5	3	
Amhara	PTB pos	6,686	98	6,520	98	4,595	69	865	5,460	82	375	6	31	0	181	3	473	7	
	Re-tret	433	414	96	250	58	72	322	74	48	11	7	2	15	3	22	5		
Oromiya	PTB pos	11,263	8,357	74	8,303	74	1,765	10,068	89	545	5	61	1	639	6	478	4		
	Re-tret	689	368	53	348	51	68	416	60	41	6	10	1	18	3	22	3		
Somali ¹	PTB pos	1,381	968	70	751	54	66	817	59	47	3	11	1	43	3	50	4		
	Re-tret	189	136	72	106	56	5	111	59	18	10	0	0	6	3	1	1		
Ben-Gumz	PTB pos	395	189	48	134	34	33	167	42	6	2	2	1	6	2	8	2		
	Re-tret	28	12	43	5	18	5	10	36	0	0	0	0	0	0	0	2	7	
SNNPR	PTB pos	8,896	8,973	101	6,319	71	1,565	7,884	89	327	4	21	0	404	5	337	4		
	Re-tret	379	399	105	208	55	116	324	85	24	6	5	1	29	8	17	4		
Gambella	PTB pos	640	274	43	141	22	75	216	34	15	2	0	0	22	3	21	3		
	Re-tret	160	43	27	29	18	8	37	23	0	0	0	0	0	0	6	4		
Hareri	PTB pos	167	169	101	106	63	21	127	76	11	7	1	1	3	2	27	16		
	Re-tret	21	20	95	11	52	4	15	71	2	10	0	0	2	10	1	5		
Addis Ababa	PTB pos	3,829	3,478	91	2,432	64	262	2,723	71	207	5	39	1	233	6	305	8		
	Re-tret	534	501	94	292	55	50	344	64	50	9	31	6	34	6	44	8		
Dire Dawa ¹	PTB pos	341	234	69	124	36	44	168	49	12	4	0	0	37	11	17	5		
	Re-tret	57	42	74	16	28	16	32	56	1	2	1	2	5	9	3	5		
National	PTB pos	36,674	33,470	91	24,819	68	6,325	31,144	85	1,858	5	196	1	1,709	5	1,997	5		
	Re-tret	2,846	2,187	77	1,401	49	427	1,828	64	205	7	56	2	110	4	127	4		
Standard									>=85									<10	

¹ Incomplete report. 4th quarter report not included.

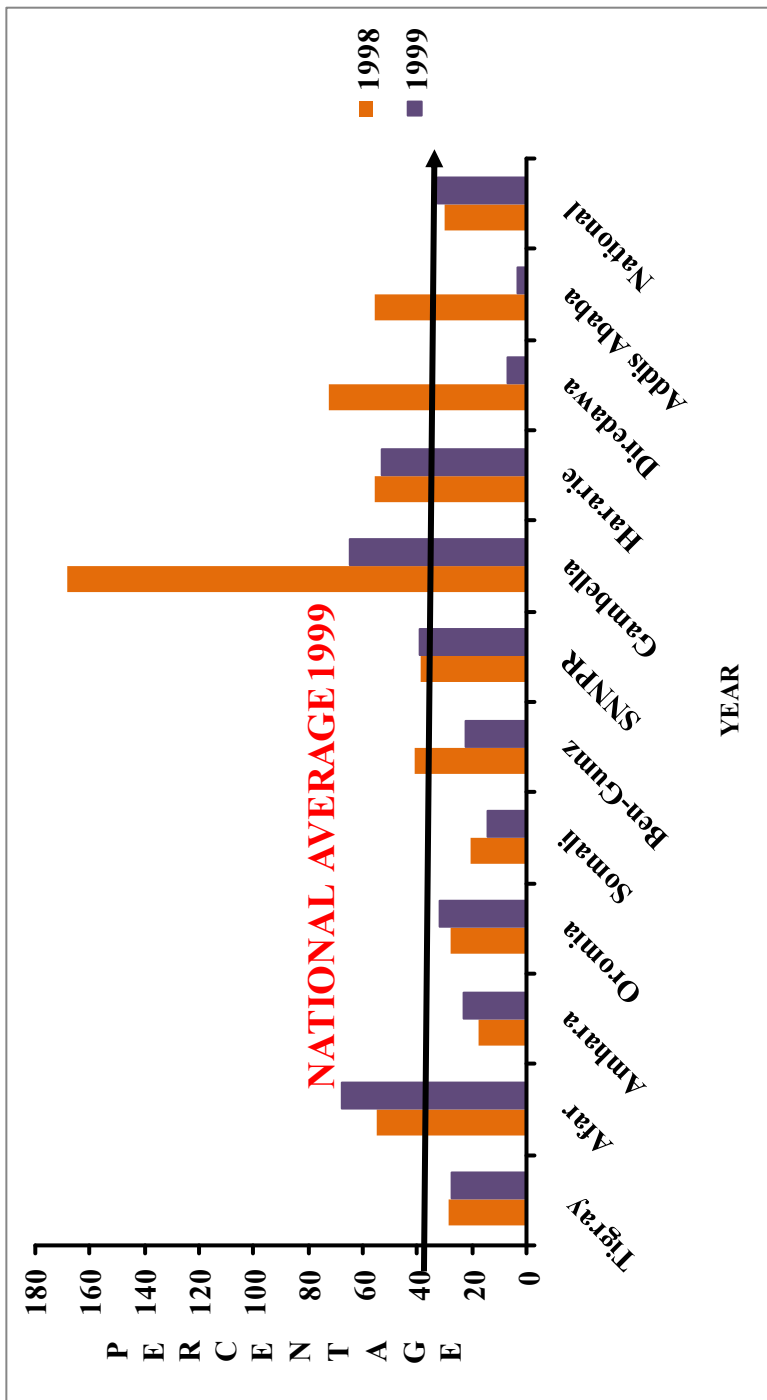
9. 5. 3 CASE DETECTION RATE OF PTB+ BY REGION,1999

Regions	Population	No of new TB Cases Detected	Estimated No of new sputum smear TB cases	Case Detection Rate
Tigray	4,449,000	1,851	6,762	27.4
Afar	1,418,000	1,454	2,155	67.5
Amhara	19,624,000	6,792	29,828	22.8
Oromia	27,304,000	13,175	41,502	31.7
Somali	4,444,000	946	6,755	14.0
Ben-Gumuz	640,000	214	973	22.0
SNNPR	15,321,000	9,153	23,288	39.3
Gambella	253,000	250	385	64.9
Hararite	203,000	163	309	52.8
Addis Ababa	412,000	3,347	4,650	2.9
Dire Dawa	3,059,000	300	626	6.5
National	77,127,000	37,645	117,233	32.1

FIG. 5 TREND IN TB CASE DETECTION, TREATMENT SUCCESS AND CURE RATES (ETHIOPIA, 1995-1999)



**FIG. 6 COMPARISON OF TB CASE DETECTION RATE BY REGION
(ETHIOPIA, 1998 AND 1999)**



9. 5. 5 LEPROSY RESULT OF TREATMENT, 1999

Regions	Classification	No of patients Registered	Evaluated		Treatment Completed		Died		Default		Transfer out	
			Cases	%	Cases	%	Cases	%	Cases	%	Cases	%
Tigray	MB	130	143	110.0	116	89.2	3	2.3	5	3.8	19	14.6
	PB	15	10	66.7	10	66.7	0	0.0	0	0.0	0	0.0
Afar	MB	71	73	102.8	70	98.6	1	1.4	1	1.4	1	1.4
	PB	50	44	88.0	43	86.0	0	0.0	0	0.0	1	2.0
Amhara	MB	1,393	1,400	100.5	1,198	86.0	7	0.5	85	6.1	110	7.9
	PB	185	175	94.6	165	89.2	1	0.5	6	3.2	3	1.6
Oromiya	MB	1,641	2,285	139.2	2,000	121.9	16	1.0	170	10.4	99	6.0
	PB	128	187	146.1	173	135.2	0	0.0	7	5.5	7	5.5
Somali ¹	MB	25	10	40.0	10	40.0	0	0.0	0	0.0	0	0.0
	PB	2	4	200.0	4	200.0	0	0.0	0	0.0	0	0.0
Ben-Gumz	MB	80	32	40.0	18	22.5	0	0.0	9	11.3	5	6.3
	PB	4	1	25.0	0	0.0	0	0.0	1	25.0	0	0.0
SNNPR	MB	393	373	94.9	277	70.5	20	5.1	53	13.5	23	5.9
	PB	40	37	92.5	34	85.0	1	2.5	1	2.5	1	2.5
Gambella	MB	243	64	26.3	52	21.4	2	0.8	6	2.5	4	1.6
	PB	35	17	48.6	14	40.0	0	0.0	1	2.9	2	5.7
Hareri	MB	35	34	97.1	30	85.7	0	0.0	2	5.7	2	5.7
	PB	2	3	150.0	3	150.0	0	0.0	0	0.0	0	0.0
Addis Ababa	MB	96	104	108.3	92	95.8	0	0.0	12	12.5	0	0.0
	PB	2	2	100.0	2	100.0	0	0.0	0	0.0	0	0.0
Dire Dawa ¹	MB	16	14	87.5	13	81.3	0	0.0	1	6.3	0	0.0
	PB	2	1	50.0	1	50.0	0	0.0	0	0.0	0	0.0
National	MB	4,123	4,532	109.9	3876	94.0	49	1.2	344	8.3	263	6.4
	PB	465	481	103.4	449	96.6	2	0.4	16	3.4	14	3.0

¹ Incomplete report. 4th quarter report not included.

9.6 NATIONAL SURVEILLANCE SYSTEM & EPIDEMIC REPORT

9.6.1 ANNUAL REPORT OF EPIDEMIC DISEASES, 1999

Region	Meningitis		Malaria		Acute watery diarrhea		Measles		Typhoid fever		Typhus		Mumps	
	cases	D	cases	D	cases	D	cases	D	cases	D	cases	D	cases	D
Tigray	0	0	0	0	1,737	17	670	25	0	0	0	0	0	0
Afar	0	0	0	0	8,445	129	0	0	0	0	0	0	0	0
Amhara	0	0	0	0	13,527	217	0	0	0	0	0	0	0	0
Oromia	15	1	0	0	34,372	296	534	4	3	0	110	0	11	0
Somali	0	0	0	0	5,295	164	0	0	0	0	0	0	0	0
Ben-Gumuz	0	0	0	0	0	0	153	15	0	0	0	0	0	0
SNNPR	647	10	693	0	16,427	119	414	28	0	0	0	0	0	0
Gambella	0	0	0	0	99	4	39	1	0	0	0	0	0	0
Hrarie	0	0	0	0	15,717	5	0	0	0	0	0	0	0	0
Addis Ababa	0	0	0	0	181	2	0	0	0	0	0	0	0	0
Dire Dawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
National	662	11	693	0	95,800	953	1,810	73	3	0	110	0	11	0

D: Death

9. 6. 2 IDSR REPORT, 1999

A. ANNUAL REPORT BY REGION COMPILED FROM WEEKLY REPORTABLE DISEASE

Region	Afp	Measles	NNT	Meningitis	yellow fever	Cholera	Dracuculiasis	Plague	V.hemorrhagic
Tigray	88	267	1	37	0	0	0	0	0
Afar	16	43	0	2	0	0	0	0	0
Amhara	138	562	5	85	0	0	0	0	0
Oromia	202	1,404	22	444	0	0	0	0	0
Somali	28	3	0	3	0	0	0	0	0
Ben-Gumz	5	200	2	2	0	0	0	0	0
SNNPR	188	624	45	737	0	0	0	0	0
Gambella	0	61	1	0	0	0	0	0	0
Harari	10	46	7	61	0	0	0	0	0
Addis Ababa	31	327	0	30	0	0	0	0	0
Dire Dawa	5	31	0	4	0	0	0	0	0
National	711	3,568	83	1,405	0	0	0	0	0

B. ANNUAL OUTPATIENT CASES REPORT BY REGION COMPILED FROM MONTHLY REPORTABLE DISEASE

Disease	Tig	Afar	Amh	Orom	Som	Ben-Gumuz	SNNPR	Gamb	Har	AA	DD	National
Onchocerciasis	0	0	114	801	0	333	482	22	0	53	0	1,805
Typhoid fever	449	759	8,973	20,256	0	2,235	29,228	385	8	23,377	480	86,150
Relapse fever	8	35	367	707	0	36	1,454	0	3	723	1	3,334
Epidemic typhus	38	0	120	856	0	9	391	0	0	14,519		15,933
Rabies	523	4	57	984	0	88	189	6	0	27	0	1,878
New AIDS cases	1,858	718	6,544	6,905	0	870	5,456	295	91	6,530	968	30,235
Male urethral Dis-charge	1,289	633	4,472	3,831	228	204	2,398	339	21	2,907	222	16,544
Male Genital ulcer	731	126	1,302	1,106	232	99	617	80	6	797	45	5,141
Female Genital ulcer	1,134	126	1,913	1,635	158	183	850	86	0	4,068	60	10,213
Diarrhea with blood	10,635	2,162	15,807	16,779	1,247	1,936	11,376	2,308	673	8,894	1,224	73,041
Malaria<5yrs	14075	20,323	62,152	29,197	6,705	21,159	106,703	7,451	632	190	267	268,854
Malaria>5yrs	64,872	64,758	255,221	109,647	7,688	62,585	342,877	16,451	3,215	1519	954	929,787
Lab conformed Malaria cases	16,508	30768	70,869	42,989	2,979	19,148	174,521	8,036	2,597	1617	283	370,315
Pneumonia<5yrs	21,271	3601	54,396	80,924	3,839	6,023	68,544	5,162	1,496	41125	3,024	289,405
Diarrhea with some dehydration<5 yrs	8,946	3,352	30,426	40,964	4,509	4,630	27,838	1,482	422	13,361	1116	137,046
Malaria in preg-nancy	675	1,605	3,705	1,828	1,083	2,109	4,808	451	10	5	1	16,280

**C. ANNUAL INPATIENT CASES REPORT BY REGION COMPILED FROM
MONTHLY REPORTABLE DISEASE**

Regions	Tig	Afar	Amh	Orom	Som	Ben	SNNP	Gamb	Har	DD	AA	Total												
	case	D	case	D	case	D	case	D	case	D	case	D												
Onchocerciasis	0	0	1	0	0	0	7	0	0	0	0	27												
Typhoid fever	67	0	179	11	558	11	0	0	23	0	1,190	16	403	3	0	98	0	182	1	2,324	442			
Relapse fever	8	0	2	0	144	5	220	13	0	0	495	9	2	0	1	0	1	0	277	8	1,150	35		
Epidemic typhus	0	0	0	0	14	2	5	0	0	0	16	0	1	0	0	0	0	0	14	0	50	2		
Rabies	20	0	0	2	0	5	3	0	0	0	6	1	0	0	0	0	0	0	34	34	67	38		
New AIDS cases	251	17	19	1	607	133	849	97	0	0	20	3	689	84	13	1	38	4	313	68	877	204	3,676	612
Diarrhea with blood	140	3	21	0	68	4	273	2	31	2	7	0	261	6	18	3	37	1	147	2	36	1	1,039	24
Diarrhea with sever dehydration <5 yrs	967	12	324	5	1,926	5	2,119	34	1102	8	37	1	1,761	47	112	12	146	4	141	4	745	18	9,380	150
Malaria <5yrs	625	5	238	22	585	23	666	41	480	62	401	13	3,739	127	321	24	51	4	39	0	2	0	7,147	321
Malaria >5yrs	2,384	26	555	23	3,254	131	1,525	82	295	14	594	12	10,668	347	723	31	90	4	75	0	34	0	20,197	670
Malaria in pregnancy	64	1	109	0	153	13	70	3	30	2	68	0	341	9	7	1	0	0	0	0	1	0	843	29
Sever anemia<5yrs	90	3	42	3	205	11	252	8	50	6	40	0	320	18	14	0	1	0	0	0	1	0	1,015	49
Sever anemia>5yrs	366	8	109	3	852	16	194	4	40	2	45	0	547	30	27	0	2	0	2	0	0	0	2,184	63
Sever Pneumonia <5yrs	2,403	43	303	2	3,690	90	5,163	123	1,149	25	213	4	4,450	258	217	15	271	9	213	4	1,482	16	19,554	589

D. death

9.7 HIV /PREVALENCE

Regions	HIV Prevalence			PLWA		New HIV infection		Adult HIV incidence	Total AIDS Orphans	Annual death all ages
	Male	Female	total	All Ages	Children	New HIV infection				
						All ages	Children			
Tigray	2.2	3.2	2.7	69,662	4,067	9,966	1,092	0.37	45,277	4,401
Afar	1.5	2.3	1.9	16,445	965	2181	216	0.26	12,424	1,309
Amhara	2.2	3.2	2.7	318,291	24,573	38,491	5,148	0.32	356,539	27,217
Oromia	1.2	1.8	1.5	236,808	16,511	28,523	3,992	0.18	201,779	1,7570
Somali	0.6	0.9	0.8	21,279	1,426	27,00	299	0.10	24,957	1,571
Ben-Gumz	1.5	2.2	1.8	7,129	385	980	117	0.25	4,118	480
SNINPR	1.2	1.7	1.4	132,410	9,849	18,739	2,305	0.21	126,978	10,297
Gambella	1.9	2.8	2.4	3,885	191	365	47	0.20	2,243	288
Hararie	2.6	3.8	3.2	3,911	189	514	28	0.49	3,289	210
Addis Ababa	6.0	8.9	7.5	156,577	6,097	21,585	808	1.52	112,647	7,993
Dire Dawa	3.3	5.0	4.2	10,999	560	1,484	95	0.65	8,100	566
National	1.7	2.6	2.1	977,394	64,813	125,528	14,148	0.28	898,350	71,902

9.7.2 NUMBER OF PMTCT CLIENTS, 1999

Regions	Pregnant women tested for HIV	pregnant women tested +ve	women receiving NVP	% of women receiving NVP	No of HIV positive babies receiving NVP
Tigray	11,847	633	302	47.7	280
Afar	223	25	7	28.0	2
Amhara	21,999	1,530	1,102	72.0	468
Oromia	31,000	1,421	693	48.8	465
Somali	1,193	62	26	41.9	47
Ben-Gumuz	23,792	767	699	91.1	229
SNNPR	1,580	61	21	34.4	24
Gambella	1,053	59	27	45.8	18
Hararie	705	63	19	30.2	23
Addis Ababa	24,584	1,778	844	47.5	1,042
Dire Dawa	3,487	223	114	51.1	115
police	6,081	33	25	75.8	23
National	127,544	6,655	3,879	58.3	2,736

9. 7. 3 PROPORTION OF HEALTH FACILITIES PROVIDING VCT, ART & PMTCT SERVICES

Regions	VCT			ART			PMTCT		
	Total No of HF Hospital, HC,& private clinic providing VCT	Prop %	Total No of HF Hospital, HC,& private clinic providing ART	prop %	Total No of HF Hospital, HC,& private clinic providing PMTCT service	prop %			
Tigray	195	72.3	195	33	195	22.6			
Afar	16	50.0	16	4	16	18.8			
Amhara	185	90.8	551	57	185	56.8			
Oromia	264	86.0	227	74	264	43.2			
Somali	25	12.0	25	3	25	16.0			
Ben-Gumz	16	81.3	16	5	16	50.0			
SNNPR	281	89.7	281	36	281	22.8			
Gambella	16	31.3	9	5	10	50.0			
Hararie	24	37.5	24	5	10	80.0			
Addis Ababa	509	31.2	509	44	58	81.0			
Dire Dawa	34	29.4	34	5	9	66.7			
National	1,565	63.6	1,887	271	1,069	38.2			

9.7.4 VOLUNTARY COUNCLING AND TESTING CLINTS

Regions	Tested	HIV +ve	%
Tigray	236,770	13,954	5.9
Afar	40,231	1,651	4.1
Amhara	376,088	34,952	9.3
Oromia	424,216	30,225	7.1
Somali	28,186	1,008	3.6
Ben Gumuz	379,683	14,175	3.7
SNNPR	18,855	1,241	6.6
Gambella	17,236	1,512	8.8
Hararie	4,139	752	18.2
DireDawa	58,182	3,270	5.6
Addis Ababa	316,178	37,746	11.9
Defense	11,527	NA	NA
Police	11,375	909	8.0
National	1,922,666	141,395	7.4

9.7.5 REGIONAL HIV/AIDS PATIENTS EVER STARTED AND CURRENTLY ON ART,1999

Regions	Ever enrolled	Ever started	Currently on ART
Tigray	12,483	7,240	5,380
Afar	1,137	738	572
Amhara	36,966	23,663	18,498
Oromia	32,378	16,595	13,039
Somali	836	588	358
Ben-Gumuz	1,583	820	708
SNNPR	12,943	6,830	5,005
Gambella	876	441	433
Hararie	2,510	1,415	1,117
Addis Ababa	52,036	31,852	22,885
Dire Dawa	3,433	1,993	1,556
Uniformed Forces	5,187	3,581	2,222
National	162,368	95,756	71,773

**FIG.7 NUMBER OF PLWHA ON ART BY REGION
(ETHIOPIA,1999)**

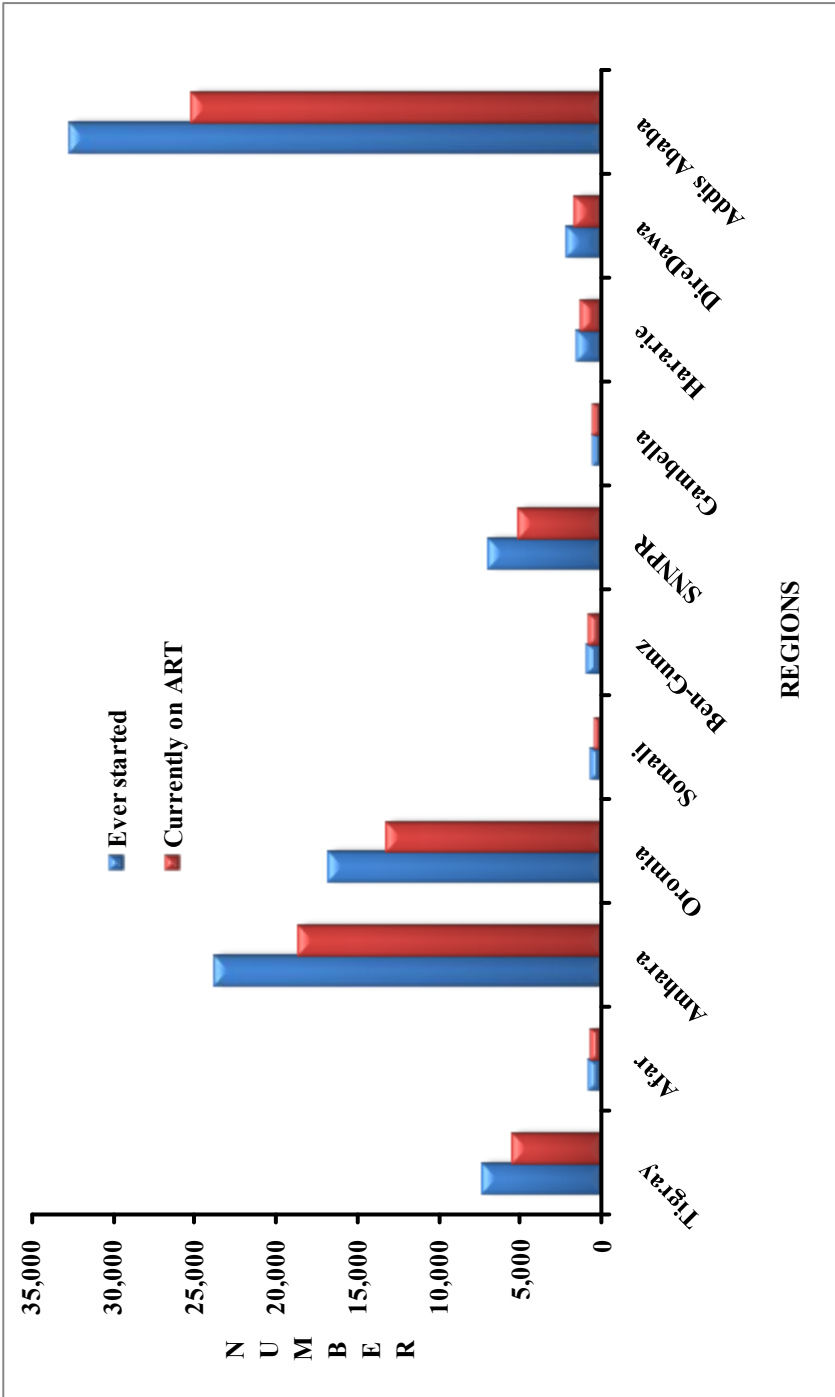
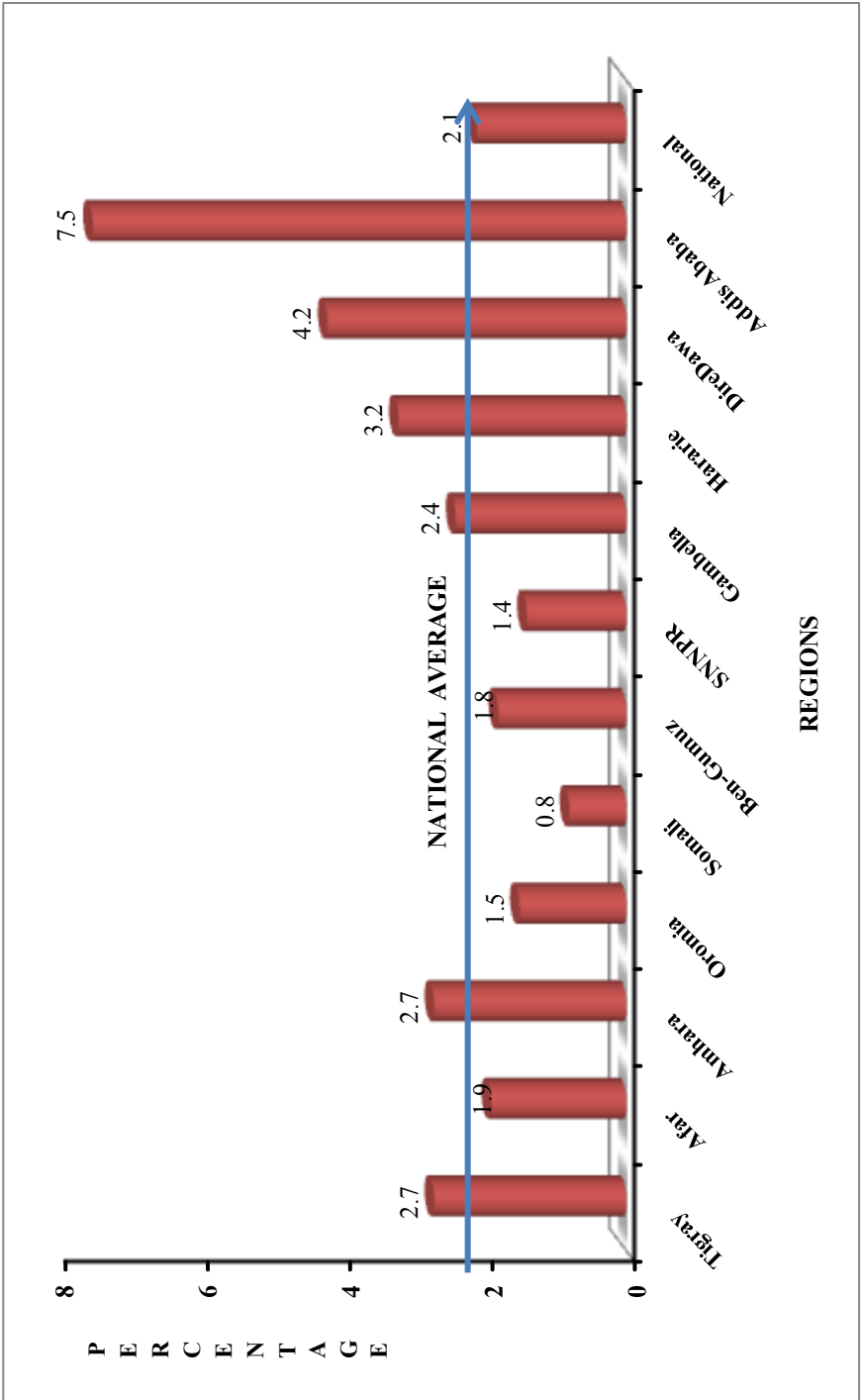


FIG 8 COMPARISON OF HIV PREVALENCE BY REGION, 1999



10 OUT PUT FROM PROFESSIONAL TRAINING SCHOOL

10.1 SUMMARY OF GRDUATES BY CATAGORY, 1999

Profession	1996		1997		1998		1999	
	BS	F	BS	F	BS	F	BS	F
Specialists	0	0	0	0	0	0	210	26
Medical doctor	289	31	309	21	180	25	161	31
Health officer	249	41	322	85	224	49	789	104
Pharmacist	57	11	70	12	51	16	48	24
Anesthesiologist	0	0	0	0	4	1	1	0
Anesthesiologist B.Sc	0	0	0	0	0	0	11	1
Dentist B.Sc	0	0	0	0	0	0	39	8
Nurse B.Sc	62	22	42	12	43	8	288	154
Health Education	0	0	0	0	0	0	38	8
Senior Clinical Nurse	1,288	514	3,300	1,702	719	379	143	94
Junior Clinical Nurse	444	210	958	111	419	146	1,157	89
Senior Midwife Nurse	144	87	40	27	28	10	25	16
Midwife Nurse B.Sc	0	0	0	0	0	0	53	28
Junior Midwife Nurse	30	12	3	1	2	2	62	51
Junior Pharmacy technician	0	0	0	0	0	0	39	12
Senior Laboratory Technologist	30	1	6	0	108	11	97	11
Junior Laboratory Technologist	0	0	0	0	0	0	422	105
Environmental Health Technologist	21	0	24	0	30	0	173	20
Senior Environmental Health	225	46	243	45	13	5	34	1
Junior environmental Health technician	34	4	224	41	58	9	198	10
Occupational Health	0	0	0	0	0	0	38	2
Radiographer	0	0	0	0	0	0	25	3
Druggist	0	0	0	0	0	0	514	228
Health extension worker	2,717	2,717	7,090	7,090	7,500	7,500	7,095	7,095
TOTAL	5,590	3,696	12,631	9,147	9,379	8,161	11,544	8,111

10. 2 DISTRIBUTION OF HEALTH TRAINING SCHOOLS (TYPES & NUMBER OF GRADUATES), 1999

A. GRADUATES OF HEALTH PROFESSIONAL FROM PUBLIC HIGHER EDUCATION

No.	Training School		Award	1997		1998		1999	
	Name	Type		BS	F	BS	F	BS	F
1	Addis Ababa University	Medicine	MD			55	10	62	18
		Anesthesiology	B.Sc.	0	0	36	5	1	0
		Lab. Technologist	B.Sc.	0	0	0	0	55	18
		Epidemiology)		0	0	0	0	4	1
		Anasesthesia	B.Sc.	4	1	4	1	0	0
		Dentist	B.Sc.	0	0	0	0	39	8
		Health Science Prof.	B.Sc.	0	0	13	2	0	0
		Clinical Nurse	Diploma	197	126	1	1	0	0
		Mid wife Nurse	B.Sc.					23	11
		Radiographer	B.Sc.	0	0	0	0	25	3
		Laboratory Tech.	Diploma	11	1	87	29	0	0
		Radiographer technician	Diploma	27	0	19	4	0	0
Nurse	B.Sc.	0	0	0	0	72	32		
Druggist	Diploma	45	10	74	22	81	30		
2	Gonder University	Medicine	MD	143	11	52	6	41	8
		Surgery		0	0	0	0	3	0
		Physiotherapy	BSC	0	0	0	0	37	11
		pharmacy	BSc	0	0	0	0	48	24
		Clinical Nurse	Diploma	103	44	95	61	0	0
		Health officer	B.Sc.	43	15	0	0	86	14
		Midwife Nurse	B.Sc.					30	17
		Midwife Nurse	Diploma	0	0	0	0	62	51
		Lab. Technician	Diploma	97	10	7	2	0	0
		Lab. Technologist	B.Sc.	0	0	0	0	66	23
		Occupational Health	B.Sc.	0	0	0	0	38	2
		Environmental Health	B.Sc.	0	0	0	0	79	2
Pharmacy Tech.	Diploma	0	0	63	16	39	12		
Ophthalmology	B.Sc.	0	0	0	0	15	8		
Anesthesiology	B.Sc.	0	0	0	0	11	1		
Nurse	B.Sc.	0	0	0	0	76	35		
3	Jimma University	Medicine	MD	166	10	73	9	58	5
		Lab. Technologist	B.Sc.	0	0	0	0	111	17
		Clinical Nurse	Diploma	151	71	18	10	17	7
		Health Education	Diploma	0	0	0	0	38	8
		Druggist	Diploma	170	7	83	15	41	12
		Anesthesiology	B.Sc.	0		36	9	0	0
		Environmental Health	B.Sc.	0	0	0	0	69	12
		Health Officer	B.Sc.	44	9	61	14	68	3
Nurse	B.Sc.	0	0	0	0	40	11		
4	Aromaya University	Environmental Health	Diploma	65	13	0	0	198	10
		Health Officer	B.Sc.	66	9	66	13	193	35
		Clinical Nurse	Diploma	62	7	50	14	243	35
5	Hawassa University	Lab. Technologist	B.Sc.	0	0	0	0	97	26
		Health Officer	B.Sc.	48	45	45	9	128	24
		lab technologist	B.Sc.	0	0	0	0	93	21
		Environmental Health	B.Sc.					25	6
6	Defense Engineering College	Clinical Nurse	Diploma	6	1	24	1	86	22
		Health Officer	B.Sc.	32		0	0	109	NA
		Nurse	B.Sc.	0	0	0	0	75	16
7	Mekele university	Clinical Nurse	Diploma	215	65	17	5	811	25
		Health officer	BSc					59	NA
TOTAL				1,695	455	979	258	3,552	624

A. GRADUATES OF HEALTH PROFESSIONAL FROM PRIVATE TRAINING SCHOOLS

No.	Training School		Award	1997		1998		1999	
	Name	Type		BS	F	BS	F	BS	F
1	Medico Bio-Medical Collage	Clinical Nurse	Certificate	2	2	0	0	0	0
		Clinical Nurse	Diploma	409	219	95	61	0	0
		Lab. Technician	Diploma	15	7	13	2	0	0
		Druggist	Diploma	134	81	44	25	126	55
2	Alkan Health College	Clinical Nurse	Diploma	0	0	24	19	0	0
		Druggist	Diploma	0	0	15	5	35	22
3	Tropical College of Medicine	Clinical Nurse	Diploma	72	57	60	49	0	0
		Lab. Technician	Diploma	21	10	9	5	0	0
		Druggist	Diploma	37	15	16	8	39	18
4	Universal Medical College	Clinical Nurse	Diploma	156	123	9	9	0	0
		Druggist	Diploma	94	19	8	3	22	8
5	Central Medical College	Clinical Nurse	Diploma	558	379	3	1	0	0
		Druggist	Diploma	75	31	0	0	133	61
6	Reft vally Health College	Clinical Nurse	Diploma	78	42	51	23	0	0
		Druggist	Diploma	0	0	10	1	0	0
7	Omega College	Clinical Nurse	Diploma	25	11	9	7	0	0
		Druggist	Diploma	75	31	15	12	37	22
8	SOS School of Nursing	Clinical Nurse	Diploma	7	5	1	1	0	0
TOTAL				2,103	1,256	382	231	392	186

B. GRADUATE OF HEALTH EXTENSION WORKERS AND NO OF SCHOOLS BY REGION.

Regions	1997	1998	1999	HEW's on training in the year 1999	Training Centers
Tigray	800	840	0	0	2
Afar	0	0	0	154	2
Amhara	3,500	3,500	2,631	700	7
Oromia	1,296	1,296	3,524	2,876	18
Somali	0	0	0	595	2
Ben-Gumuz	0	0	59	120	3
SNNPR	1,494	1,500	2,666	2650	5
Gambella	0	0	47	0	2
Harari	0	0	0	0	1
Addis Ababa	0	0	0	0	1
Dire Dawa	0	0	33	0	0
National	7,090	7,136	8,560	7095	40

10.3 POST BASIC AND POST GRDUATES, 1999

Training program	Training Type	Training Institute	1996		1997		1998		1999		
			BS	F	BS	F	BS	F	BS	F	
Post graduate studies	Epidemiology	Addis Ababa University	0	0	0	0	0	0	4	1	
	Anesthesiology		0	0	0	0	4	0	1	0	
	Public Health (MPH)		0	0	0	0	0	0	60	14	
	Reproductive Health		0	0	0	0	0	0	11	2	
	Internal Medicine		13	1	134	7	3	0	20	1	
	Microbiology		0	0	0	0	0	0	3	0	
	Obsterics & Gyn		11	1	14	1	7	0	19	0	
	Parasitology		0	0	0	0	0	0	5	0	
	Ophtalmology		5	2	4	2	3	1	5	2	
	Orthopedic Surgery		1	0			4	2	2	0	
	Anatomy		0	0	0	0	0	0	1	0	
	Epidemiology								4	1	
	Physiology		0	0	0	0	0	0	2	0	
	Environmental Health								9	0	
	Psychiatry		0	0	0	0	0	0	5	0	
	Pathology		1	0			2	0	1	0	
	Pediatrics		11	1	2	10	10	2	9	3	
	Plastic and Reconstructive Surgery		12	0	16	1	10	0	8	0	
	Surgery		0	0	0	0	0	0	20	0	
	Radiology		7	2	6	2	5	1	9	0	
Pharmacology	0	0	0	0	0	0	9	2			
Total	61	7	176	23	48	6	207	26			
Post basic Graduates	Health officer		28	3	7	3	9	0	60	14	
	Midwife nurse								25	16	
	Nurse								143	94	
	lab technologist	Gonder							57	7	
	Health officer								86	14	
	Lab. technologist									40	4
	Env.Health		Jimma							28	1
Lab-Technologist.								25	0		

GLOSSARY

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 coverage

A coverage is proportion of pregnant women attended, at least once during the current pregnancy, by a health professional, for reasons related to pregnancy.

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.

Child woman ratio

The number of children under age five per 1,000 women of childbearing age in a given year. This measure is used as a rough fertility indicator, especially when detailed data on births are lacking.

Contraceptive Accepters rate

The proportion of women of reproductive age (15-49 years) who are accepting a modern contraceptive method (new and repeat acceptors).

Crude birth rate

The number of births in a population during a specified period divided by the number of person-years-lived by the population during the same period. It is frequently expressed as births per 1,000 population.

Crude death rate

The number of deaths in a population during a specified period divided by the number of person-years-lived by the population during the same period. It is frequently expressed as births per 1,000 population.

Delivery attended

The service given for a pregnant woman during labor; management of normal delivery and detection of complications, management of risk cases in labor and complicated cases.

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.

Discharged patient

The number of patients who are discharged from the health institution (whether it is dead or alive) after being diagnosed and/or treated.

Drug shop

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

Enrolment ratio

The number of students attending a given school, divided by the total number of persons of the age normally in school at that level.

Fully immunized

Surviving infants who receive all doses of infant antigens.

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).

Gross Enrollment Ratio

The total enrolment in a given level of school regardless of age per 100 children of that schools age.

Health center

Establishment which provides both preventive and curative out-patient care. Health Centre is also responsible for training CHAs & TBAs.

Health post

One of the satellite facility in the Primary Health Care Unit

Health stations

The smallest health units in the conventional Health Service structure and are staffed with 1-3 health assistants.

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 with at least 25 beds that provides general medical care round the clock. It is at least equipped with basic laboratory, X-ray and basic treatment facilities. It is staffed with at least one medical practitioner.

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 ratio of the number of deaths under one year of age occurring in a given year to the number of births in the same year. Also used in a more rigorous sense to mean the number of deaths that would occur under one year of age in a life table with a radix of 1,000.

Infant mortality

The probability of dying between birth and age one per 1000 live births in a given year.

In-patient

A patient who is admitted and occupy bed in a health institution for diagnosis and/or treatment.

Life Expectancy at Birth

The average number of years a newborn infant can expect to live under current mortality levels.

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 outpatient clinic.

Maternal mortality rate

A measure of a woman's risk of dying from causes associated with pregnancy.

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 patient who receive ambulatory care (examination and treatment) without being admitted or occupying a bed.

Pharmacy

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

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 centers and health stations in catchment's area.

Rate of national increase

The difference between the births and deaths occurring during a given period divided by the number person-year lived by the population during the same period. 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 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.

School enrolment

The number of students who are enrolled and attend various educational institutions.

Sex ratio

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

Special clinic

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

Surviving infants

Infants who survive to their first birth day

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.

Under-five mortality

The probability of dying between birth and age five per 1000 live births in a given year.

Under 5 children

Under 5 year children visits to health institution for monitoring of growth and development, screening of risk cases, and for management of disease or mal development.

Vital events

Births, deaths, marriages and divorces.

