

AIDS CASE SURVEILLANCE IN ETHIOPIA: JUNE 30, 1993

**National AIDS Control Programme
Ministry of Health**

INTRODUCTION

This report is published by the Department of Aids Control on a monthly basis. The major objectives of the publication are to: r. Notify the current status of AIDS epidemic in the country, and provide information for decision making and future planning.

2. Provide feedback to health institutions in the country. This material is being distributed free of charge for over 200 governmental and non-governmental institutions. From January 1986 to June 1993, a total of 6, 726 AIDS cases have been reported by forty-seven hospitals in the country .Out of the total reported cases, about 41% were residents of Addis Ababa. Other surveillance and research activities carried out in Ethiopia among different population groups have also indicated the extent of the HIV/AIDS epidemic and its progression.

2. Criteria used to diagnose AIDS patients in Ethiopia.

The World Health Organization (WHO) provisional case definition with positive serology test for HIV antibodies is used for the diagnose of AIDS in suspected cases. According to this definition, a case has to manifest at least; two major and one minor signs and show an HIV positive serology. (Refer to Table 13 of the report for a list of major and minor clinical symptoms/signs)

3.Summary or the month's report

In June 1993 alone, a total of 150 AIDS cases were reported by 6 hospitals; .132 cases were from 4 hospitals in Addis Ababa and other 18 cases were from 2 regional hospitals. the following table identifies the number of cases reported during this month, by reporting hospital and region/zone.

Note: (1) You are kindly requested to share the information with your staff. (2) comments and suggestions are appreciated for improving our reporting system.

Table 1. Summary of reported Aids cases in Ethiopia, as of 30 June 1993.

Variable	Cumulative value
Case Definition Criteria	WHO case definition with serology
Number of AIDS cases reported	6,726
Number of reporting hospitals	47
Average n(mean) delay in reporting	2 months
Proportion of cases aged 15 or less	1.5%
Average age of patients	30.2 years
Sexually active age group (15-49 yrs)	93.8%
Proportion of married people	33.4%
Proportion of elderly (age> 65 yrs.)	0.2%
Male to Female ratio of total cases	1.7:1
Heterosexual transmission	84.1%
Patients residing in Addis Ababa	40.3%
Proportion of reported cases by A. A. Hospitals	51.7%
Major clinical symptoms	
Weight Loss of > 10% body weight	92.9%
Prolonged Fever for > 1 month	88.2%
Chronic Diarrhoea for> 1 month	68.1%
Persistent Cough for > 1 month	70.6%

Table 2. Distribution of reported AIDS Cases by Hospital, for June 1993.

Hospital	Region/Zone	Number of reported cases	Period of diagnosis
ALERT	Addis Ababa	18	Apr.93-June 93
Central command	..	26	Dec. 92-May 93
St. Paulos	..	74	Mar.93-May 93
Yekatit 12	..	14	May 93-June 93
Bushulo	Sidamo	13	May 93-June 93
Wonji	E Shoa	5	May 93-June 93
Total		150	

Table 3: AIDS Cases by Quarter of Report.

Year-quarter	Males	Females	Total	Percent of Total Cases
86-1	1	0	1	0.01%
86-2	0	1	1	0.01%
87-1	4	0	4	0.06%
87-2	0	2	2	0.03%
87-3	2	2	4	0.06%
87-4	6	1	7	0.10%
88-1	4	3	7	0.10%
88-2	21	5	26	0.39%
88-3	19	4	23	0.34%
88-4	23	6	29	0.43%
89-1	11	4	15	0.22%
89-2	44	17	61	0.91%
89-3	21	16	37	0.55%
89-4	52	25	77	1.14%
90-1	49	27	76	1.13%
90-2	67	14	81	1.20%
90-3	92	49	141	2.10%
90-4	84	66	150	2.23%
91-1	218	82	300	4.46%
91-2	101	77	178	2.65%
91-3	161	80	241	3.58%
91-4	105	61	166	2.47%
92-1	145	108	253	3.76%
92-2	327	218	545	8.10%
92-3	603	397	1000	14.87%
92-4	909	549	1458	21.68%
93-1	618	403	1021	15.18%
93-2	528	294	822	12.22%
Total	4215	2511	6726	100.00%

Table 4. **Distribution of Aids Cases by Year of Report.**

Year	Number			Sex Ratio (M:F)	Percent of Total
	Male	Female	Total		
86	1	1	2	1:1	0.03%
87	12	5	17	2.4:1	0.25%
88	67	18	85	3.7:1	1.26%
89	128	62	190	2.1:1	2.82%
90	292	156	448	1.9:1	6.66%
91	585	300	885	1.9:1	13.16%
92	1984	1272	3256	1.6:1	48.41%
93	1146	697	1843	1.6:1	27.40%
Total	4215	1511	6726	1.7:1	100.00%

The proportion of female patients being reported has increased since 1992.

Table 5. **Age and Sex Distribution of Reported AIDS Cases.**

Age Group	Sex		Total	Percent
	Males	Females		
<1	16	17	33	0.49%
1-4	26	31	57	0.85%
5-14	5	3	8	0.12%
15-19	97	294	391	5.81%
20-24	586	727	1313	19.81%
25-19	1022	672	1694	25.19%
30-39	1562	538	2100	31.22%
40-49	650	163	813	12.09%
50-65	239	63	302	4.49%
>65	12	2	14	0.21%
Total	4215	2511	6726	100.00%
(Percent)	(62.7%)	(37.3%)		

Average (Mean) age for both sexes = 30.3 Years,
for males = 32.4 years, and for females =26.7 years.

Refer to Figure 2 showing the distribution of cases by age group.

Table 6.: **Distribution of Reported AIDS Cases by Marital Status**

Marital Status	Male	Female	Total	Percent of Total
Single	1944	895	2839	42.2%
Married	1580	666	2246	33.4%
Divorced	227	575	802	11.9%
Widowed	29	134	163	2.4%
Pediatric Cases (Age<15 years)	47	51	98	1.5%
Unspecified	388	190	578	8.7%
Total	4215	2511	6726	100.00%

Table 7. **Reported AIDS Cases by Occupation**

Occupation type	Males	Females	Both	Percent of Total
Armed forces	944	21	965	14.4%
Bar wokrs*	36	42	78	1.2%
Daily labourers	221	63	284	4.2%
Drivers	511	2	513	7.6%
Farmers	89	2	91	1.4%
Govdt employees	767	195	962	14.3%
Servants	11	192	203	3.0%
House wives	-	389	389	5.8%
Mechanics	138	1	139	2.1%
Merchants	385	100	485	7.2%
Others	573	420	993	14.7%
Sex workers	0	554	554	8.2%
Students	113	148	261	3.9%
Tella sellers	6	107	113	1.7%
Unspecified	421	275	696	10.3%

Total	4215	2511	6726	100.00%
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*Bar owners + people who didn't have high risk of exposure as sex workers.

Table 8. Average Number of AIDS Cases Reported per month and Number of Reporting Hospitals by Year.

Year	Average no of cases per month	Number or reporting hospitals form		
		Addis Ababa	Region	Total
Before 1988	0 to 1	7	0	7
1988	7	13	2	15
1989	16	15	4	19
1990	37	17	14	31
1991	74	17	22	39
1992	269	17	29	46
1993	350	17	30	47
Total		17	30	47

Table 9. Distribution of Aids Cases by Reporting Hospitals and by Year of Report, Addis Ababa Hospitals.

Reporting Hospitals	Year of Report									Total	Percent of Total
	86	87	88	89	90	91	92	93			
Alert	0	1	32	37	61	0	339	135	605	17.4%	
Amanuel	0	0	0	0	0	1	6	0	7	0.2%	
Armed Forces	0	4	3	22	59	64	36	11	199	5.7%	
Balacha	0	0	3	0	0	0	0	0	.3	0.1%	
C. Cinnabd	0	0	2	0	0	0	11	33	46	1.3%	
Ethio. Swedish	0	0	5	0	0	3	3	0	11	0.3%	
Ghandi	0	0	0	1	0	0	0	0	1	0.1%	
Menilk II	0	0	0	13	7	0	210	216	446	12.8%	
Paulos	0	0	4	0	1	23	18	87	133	3.8%	
Petros	0	1	1	4	84	39	76	142	347	10.0%	
Police	0	2	1	10	5	36	29	25	108	3.1%	
Ras Desta	0	1	0	30	44	106	196	18	395	11.4%	
Tatek	0	0	0	0	6	22	0	2	30	0.9%	
Tikur Anbessa	0	3	25	47	43	148	148	74	488	14.1%	
Yekatit 12	2	5	3	13	22	16	251	90	402	11.6%	
Zewditu	0	0	3	3	21	50	118	53	248	7.1%	
Total	2	17	82	180	358	508	1441	886	3474	100.0%	

Central Command Hospital

Table 10: Distribution AIDS Cases by Reporting hospitals and by Year of Report, Regions.

Reporting Hospitals	Year of Report									Percent Total
	86	87	88	89	90	91	92	93	Total	
Ambo	0	0	0	0	0	3	14	18	35	1.08%
Arbamich	0	0	0	0	7	24	41	31	103	3.17%
Asebe Teferi	0	0	0	0	0	12	6	7	25	0.77%
Asseb	0	0	2	0	0	0	0	0	2	0.06%
Assela	0	0	0	0	1	26	6	0	33	1.01%
Attat	0	0	0	0	0	14	59	70	143	4.40%
Borena	0	0	0	0	1	0	0	0	1	0.03%
Bushulo	0	0	0	0	0	0	20	44	64	1.97%
Debre Markos	0	0	0	0	0	0	8	0	8	0.25%
Debre Tabor	0	0	0		0	0	46	32	78	2.40%
Dessie	0	0	0	0	0	11	70	0	81	2.49%
Diredawa	0	0	0	0	0	19	86	0	105	3.23%
Felege Hiwot	0	0	0	8	13	31	72	112	228	7.01%
Ghimbi	0	0	0	0	1	18	575	0	602	18.51%
Goba	0	0	0	0	7	0	0	0	7	0.22%
Gonder College	0	0	0	0	0	5	0	0	5	0.05%
Heroes Center	0	0	0	0	32	82	214	80	408	12.55%
Hiwot Fana	0	0	0	0	1	3	0	1	5	0.15%
Hiwot Fana	0	0	0	0	14	59	93	125	291	8.95%
Hossana	0	0	0	0	0	0	34	0	34	1.05%
Jimma	0	0	1	1	0	12	0	83	97	2.98%
Metehara	0	0	0	0	0	0	1	0	1	0.03%
Mizan	0	0	0	0	0	1	5	0	6	0.18%
Nazareth	0	0	0	1	0	14	180	37	232	7.13%
Nekemt	0	0	0	0	0	0	0	19	19	0.58%
Pawie	0	0	0	0	0	0	59	60	119	3.66%
Shashemene	0	0	0	0	0	9	17	10	36	1.11%
Woldia	0	0	0	0	0	0	31	44	75	2.31%
Wonji	0	0	0	0	3	13	42	42	100	3.08%
Yirgalem	0	0	0	0	10	21	136	142	309	9.50%
Total	0	0	3	10	90	377	1815	957	3252	100.00%

Table 11 : Distribution of AIDS Cases by Region of Residence and by Year of Report

Region	Year of Report									Percent Total
	86	87	88	89	90	91	92	93	Total	
A.A	2	12	59	113	271	355	1204	694	2710	40.29%
ARSI	0	0	2	5	1	30	30	11	79	1.17%
ASSEB	0	0	8	4	19	27	21	9	88	1.31
ASSOSA	0	0	0	0	0	0	1	0	1	0.01%
BALE	0	0	0	2	2	10	18	17	49	0.73%
BORENA	0	0	0	0	3	1	9	14	27	0.40%
DIREDAWA	0	0	1	2	24	39	89	145	300	4.46%
E GOJAM	0	1	0	2	3	10	68	46	130	1.93%
E HARARGE	0	1	0	4	10	48	84	90	237	3.52%
E SHOE	0	1	2	10	16	49	251	102	431	6.41%
ERITREA	0	0	2	5	6	10	3	1	27	0.40%
GAMBELLA	0	0	0	1	4	0	3	5	13	0.19%
ILLUBABOR	0	0	1	2	0	17	10	88	118	1.75%
KEFFA	0	0	0	1	0	2	9	3	15	0.22%
METEKEL	0	0	0	2	2	3	72	58	137	2.04%
N GONDER	0	0	1	1	28	74	207	83	394	5.85%
N MOM	0	0	0	0	5	16	38	33	92	1.37%
N SHOA	0	1	1	2	2	6	26	13	51	0.76%
N WOLLO	0	0	1	0	2	15	41	49	108	1.61%
OGADEN	0	0	0	0	2	1	3	4	10	0.15%
S GIBDER	0	0	0	1	4	17	91	6	119	1.77%
S OMO	0	0	0	0	0	4	0	1	5	0.07%
S SHOA	0	0	0	0	7	16	89	47	159	2.36%
S WOLLO	0	1	0	8	9	31	97	16	162	2.41%
SIDAMO	0	0	1	0	9	16	127	140	293	4.36%
TIGRAY	0	0	1	4	2	8	8	4	27	0.40%
W GOJAM	0	0	1	11	6	24	556	5	603	8.97%
W HARARGE	0	0	0	0	3	18	19	16	56	0.83%
W SHOA	0	0	4	6	2	22	63	87	184	2.74%
WOLLEGA	0	0	0	2	5	8	9	31	55	0.82%
UNKNOWN	0	0	0	2	1	7	3	23	36	0.54%
OTHERS	0	0	0	0	0	1	7	2	10	0.13%
Total	2	17	85	190	448	885	3256	1843	6726	100.00%

- Others include patients who came from some other countries and diagnosed in one of the hospitals in Ethiopia. These patients were: 2 from Djibouti, 2 from Uganda, 2 from Somalia, 1 from South Africa, 1 from India and 2 from unspecified country.

Table 12: AIDS Cases by Risk Factor

Risk Factors;	Male	Female	Total	Percent
History of Multi-Partner Sexual Contact (MPSC)	3576	2077	5653	84.05%
History of Blood Transfusion	58	33	91	1.35%
Maternal HIV or Breast Feeding	42	46	88	1.31%
History of Illegal Injection	55	49	104	1.55%
IV drug abuse	4	2	6	0.09%
Unspecified	480	304	784	11.66

Table 13: Clinical Signs and Symptoms of Reported AIDS Cases.

Clinical Manifestation	Males	Females	Total	Percent
MAJOR SYMPTOMS				
Weight loss > 10% of body weight (Failure to thrive)	3892	2358	6250	92.92%
Prolonged Fever for > 1 month	3697	2235	5932	88.20%
Chronic Diarrhoea for > 1 month	2840	1737	4577	68.05%
MINOR SYMPTOMS				
Generalized Lymphadenopathy	1232	627	1859	27.64%
Persistent Cough for > 1 month	2950	1795	4745	70.55%
Skin rashes	115	61	176	2.62%
Tuberculosis (Pulmonary and/or Disseminated)	1009	577	1589	23.58%
Recurrent herpes Zoster	693	356	1049	15.60%
Generalized pruritic dermatitis	660	424	1084	16.12%
Orropharyngeal candidiasis	800	478	1278	19.00%
Pneumonia (including PCP)	378	209	587	8.73%
Chronic herpes simplex	40	39	79	1.17%
CNS derangement	98	43	141	2.10%
Night sweats & Generalized	110	57	167	2.48%
Body Weakness	17	5	22	0.33%
Loss of appetite	23	8	31	0.46%
Kaposi' Sarcoma				

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Reported AIDS Cases by Year of Report in Ethiopia, as of 30 June 1993.

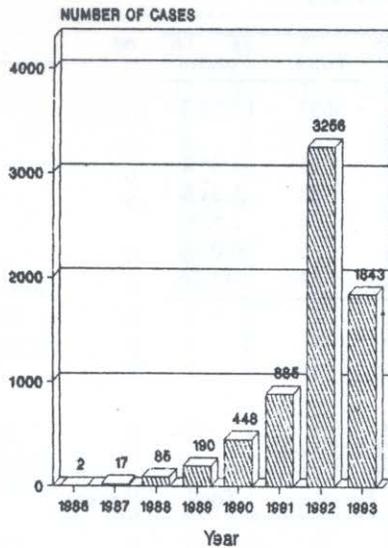


Figure 1. Reported AIDS Cases by Year of Report

Age Distribution of Reported AIDS Cases in Ethiopia, as of 30 June 1993.

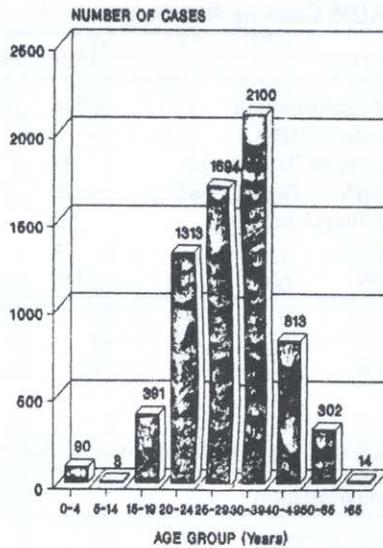


Figure 2. Age Distribution of Reported AIDS Cases in Ethiopia, as of 30 June 1993.

Distribution of reported AIDS cases: Addis Ababa and Regional Hospitals.

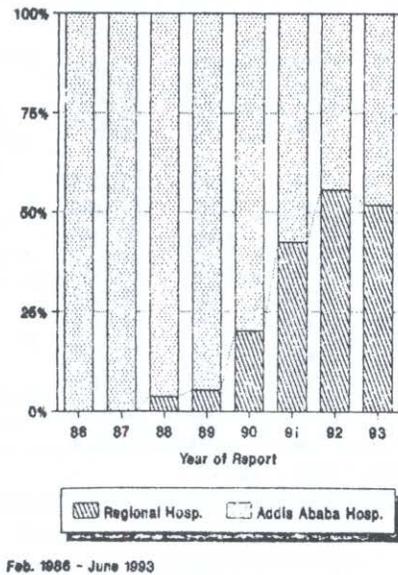


Figure 3. Distribution of Reported AIDS cases: Addis Ababa and Regional Hospitals.

Trend of reported AIDS cases by quarter of report, in Ethiopia.

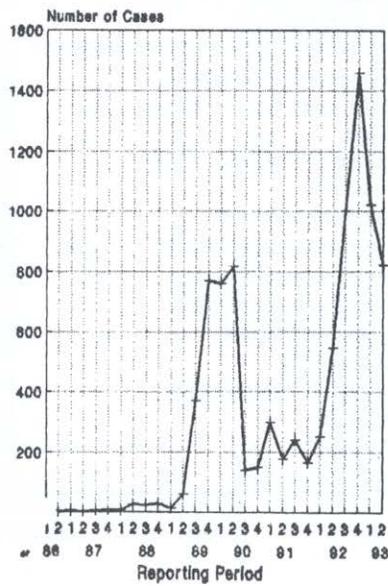


Figure 4. Trend of Reported AIDS Cases by Quarter of Report, in Ethiopia

