

UPDATE

AIDS CASE SURVEILLANCE IN ETHIOPIA: OCTOBER 31, 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:

- * Notify the current status of AIDS epidemic in the country , and provide information which has prominence in decision making and future planning.
- ** Provide feedback to health institutions in the country.

From January 1986 to October 1993, a total of 8,622 AIDS cases have been reported by forty-eight hospitals in the country. Out of the total reported cases, about 42.1 % 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 the criteria used to diagnose AIDS. According to the case definition, a patient has to manifest at least major and one minor signs and show HIV Positive serology. (See page 9 of the report for the list of major and minor clinical symptoms/signs).

3. Summary of the report for the month of October, 1993. In October 1993 alone, a total of 246 AIDS cases were reported by 12 hospitals; 73 cases were from 5 Addis Ababa hospitals and the rest 173 cases were from 7 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 AIDS Cases reported in Ethiopia, as of 31, October 1993.

| Variable | Cumulative value |
|--|------------------|
| Number of AIDS cases reported | 8.622 |
| Number of reporting hospitals | 48 |
| Average (mean) delay of reporting in month | 2 |
| Average age of patients | 30 |
| Heterosexual transmission | 85% |
| Sexually active age group (15-49) | 94% |
| Proportion of married people | 34% |
| Proportion of elderly (age >60 yrs). | 0.8% |
| Proportion of paediatric cases (age <15 yrs) | 1.5% |
| Male to Female ration of total cases | 1.7:1 |
| Patients residing in Addis Ababa | 42% |
| Reported cases by A>A hospitals | 53% |
| Major clinical symptoms | |
| Weight Loss of > 10% body weight | 92% |
| Prolonged Fever for > 1 months | 87% |
| Chronic Diarrhoea for >1 month | 66% |
| Persistent cough for > 1 month | 69% |

Note: See the full report for the details

Tale 2: Distribution of reported AIDS Cases by hospital, for the month October, 1993

| Hospital | Region/Zone | Period of Diagnosis | Reported Cases |
|------------------|-------------|---------------------|----------------|
| Alert | Addis Ababa | July 93-Sep.93 | 23 |
| Central prison | " | Sep. 93 | 4 |
| Kolfie TBC | " | Sep. 93-Oct. 93 | 5 |
| St. Paulos | " | July 93-Oct. 93 | 29 |
| Yekatit 12 | " | Sep. 93 | 12 |
| | | Sub Total = | 73 |
| Ambo | West Shoa | Aug. 93 | 13 |
| Attat | West Shoa | Sep 93 | 13 |
| Bushulo | Sidamo | Sep .93 | 11 |
| Debre Berhan | North Shoa | Aug. 93 | 7 |
| Dire Dawa | Dire Dawa | Aug 93 | 72 |
| Hailemariam Mamo | East Shoa | July 93-Oct. 93 | 55 |
| Wonji | East Shoa | Sep. 93 | 2 |
| | | Sub Total = | 173 |
| | | Total = | 246 |

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 | 0.05% |
| 87-2 | 0 | 2 | 2 | 0.02% |
| 87-3 | 2 | 2 | 4 | 0.05% |
| 87-4 | 6 | 1 | 7 | 0.08% |
| 88-1 | 4 | 3 | 7 | 0.08% |
| 88-2 | 21 | 5 | 26 | 0.30% |
| 88-3 | 19 | 4 | 23 | 0.27% |
| 88-4 | 23 | 6 | 29 | 0.34% |
| 89-1 | 11 | 4 | 15 | 0.17% |
| 89-2 | 44 | 17 | 61 | 0.71% |
| 89-3 | 21 | 16 | 37 | 0.43% |
| 89-4 | 52 | 25 | 77 | 0.89% |
| 90-1 | 49 | 27 | 76 | 0.88% |
| 90-2 | 67 | 14 | 81 | 0.94% |
| 90-3 | 92 | 49 | 141 | 1.64% |
| 90-4 | 84 | 66 | 150 | 1.74% |
| 91-1 | 218 | 82 | 300 | 3.48% |
| 91-2 | 101 | 77 | 178 | 2.06% |
| 91-3 | 161 | 80 | 241 | 2.80% |
| 91-4 | 105 | 61 | 166 | 1.93% |

| | | | | |
|-------|------|------|------|---------|
| 92-1 | 145 | 108 | 253 | 2.93% |
| 92-2 | 327 | 218 | 545 | 6.32% |
| 92-3 | 603 | 397 | 1000 | 11.60% |
| 92-4 | 909 | 549 | 1458 | 16.91% |
| 93-1 | 618 | 403 | 1021 | 11.84% |
| 93-2 | 528 | 294 | 822 | 9.53% |
| 93-3 | 1030 | 620 | 1650 | 19.14% |
| 93-4 | 148 | 98 | 246 | 2.85% |
| Total | 5393 | 3229 | 8622 | 100.00% |

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Table 4: **Distribution of AIDS Cases by Year of Report.**

| Year | Number | | Total | Sex Ratio (M:F) | Percent of Total |
|-------|--------|--------|-------|--------------------|------------------|
| | Male | Female | | | |
| 86 | 1 | 1 | 2 | 1:1 | 0.02% |
| 87 | 12 | 5 | 17 | 2.4:1 | 0.20% |
| 88 | 67 | 18 | 85 | 3.7:1 | 0.99% |
| 89 | 128 | 62 | 190 | 2.1:1 | 2.20% |
| 90 | 292 | 156 | 448 | 1.9:1 | 5.20% |
| 91 | 585 | 300 | 885 | 1.9:1 | 10.26% |
| 92 | 1984 | 1272 | 3256 | 1.6:1 | 37.76% |
| 93 | 2324 | 1415 | 3739 | 1.6:1 | 43.37% |
| Total | 5393 | 3229 | 8622 | 1.7:1 | 100.00% |

*The proportion of female patients has increased since 1992.

Table 5: **Age and Sex Distribution of reported AIDS Cases.**

| Age Group | Sex | | Total | Percent |
|-------------------------|----------|---------------|-------|---------|
| | Males | Females | | |
| 0-4 | 55 | 58 | 113 | 1.31% |
| 5-14 | 8 | 6 | 14 | 0.16% |
| 15-19 | 128 | 380 | 508 | 5.89% |
| 20-29 | 2038 | 1760 | 3798 | 44.05% |
| 30-39 | 1980 | 713 | 2693 | 31.23% |
| 40-49 | 860 | 224 | 1084 | 12.57% |
| 50-59 | 265 | 74 | 339 | 3.93% |
| 60+ | 59 | 13 | 72 | 0.84% |
| Total | 5393 | 3229 | 8622 | 100.00% |
| (Percent) | (62.55%) | (37.45%) | | |
| Average age for females | | = 26.8 years, | | |
| “ “ males | | =32.5 years, | | |
| “ “ both sex | | =30..3 years. | | |

(The bar chart is attached on the last page of this report).

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

| Marital Status: | Male | Female | Total | Percent of |
|---------------------------------------|------|--------|-------|------------|
| Single | 2474 | 1185 | 3659 | 42.33% |
| Married | 2053 | 866 | 2919 | 33.86% |
| Divorced | 293 | 715 | 1008 | 11.69% |
| Widowed | 39 | 186 | 225 | 2.61% |
| Paediatric Cases (Age < 15 years)) | 62 | 65 | 127 | 1.47% |
| Unspecified | 472 | 211 | 683 | 8.04% |
| Total | 5393 | 3229 | 8622 | 100.00% |

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

| Occupation type | Males | Females | Both | Percent |
|-----------------|-------|---------|------|---------|
| AGE < 15 YEARS | 62 | 65 | 127 | 1.47% |
| ARNED FIRCES | 1136 | 26 | 1162 | 13.48% |
| BAR WORKER* | 55 | 54 | 109 | 1.26% |
| DAILY LABOURER | 277 | 75 | 352 | 4.08% |
| DRIVER | 624 | 4 | 628 | 7.28% |

| | | | | |
|----------------|------|------|------|---------|
| FARMER | 108 | 2 | 110 | 1.28% |
| GOVT EMPLOYEE | 979 | 243 | 1222 | 14.17% |
| HOUSE MAID | 11 | 205 | 216 | 2.51% |
| HOUSE WIFE | 0 | 534 | 534 | 6.19% |
| MECHANIC | 179 | 2 | 181 | 2.10% |
| MIERCHANT | 524 | 129 | 653 | 7.57% |
| PRISONER | 6 | 0 | 6 | 0.07% |
| SERVANT | 1 | 26 | 27 | 0.31% |
| SEX WORKER | 0 | 650 | 650 | 7.54% |
| STUDENT | 153 | 204 | 357 | 4.14% |
| TELLA/TEJ SELL | 9 | 136 | 145 | 1.68% |
| OTHERS | 573 | 387 | 960 | 11.13% |
| UNEMPLOYED | 68 | 106 | 174 | 2.02% |
| UNSPECIFIED | 628 | 381 | 1009 | 11.70% |
| TOTAL | 5393 | 3229 | 8622 | 100.00% |

- Bar Worker include bar owners and those who are not at high risk as sex workers.

Table 8: Average number of AIDS cases per month and number of reporting hospitals by year.

| Years | Average no of cases per month | Number of reporting hospitals from | | |
|-------------|-------------------------------|------------------------------------|--------|-------|
| | | 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 | 372 | 18 | 30 | 48 |
| Total | -----> | 18 | 30 | 48 |

Tale 9: Distribution of AIDS Cases by Reporting Hospitals and by Year of Report for Addis Ababa Hospitals.

| Reporting Hospitals | Year of Report | | | | | | | | |
|---------------------|----------------|----|----|-----|-----|-----|------|------|--|
| | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | |
| ALERT | 0 | 1 | 32 | 37 | 61 | 0 | 339 | 190 | |
| AMANUEL | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 5 | |
| ARMED FORCES | 0 | 4 | 3 | 22 | 59 | 64 | 36 | 20 | |
| BALCH* | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | |
| CENTRAL COMMAND | 0 | 0 | 2 | 0 | 0 | 0 | 11 | 33 | |
| CENTRAL PRISON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | |
| ETHIO-SWEDISH | 0 | 0 | 5 | 0 | 0 | 3 | 3 | 0 | |
| GHANDI* | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| KOLFIE TBC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | |
| MINILIK II | 0 | 0 | 0 | 13 | 7 | 0 | 210 | 307 | |
| ST. PAULOS | 0 | 0 | 4 | 0 | 1 | 23 | 18 | 182 | |
| ST. PETROS | 0 | 1 | 1 | 4 | 84 | 39 | 76 | 193 | |
| POLICE | 0 | 2 | 1 | 10 | 5 | 36 | 29 | 52 | |
| RAS DESTA | 0 | 1 | 0 | 30 | 44 | 106 | 196 | 233 | |
| TATEK | 0 | 0 | 0 | 0 | 6 | 22 | 0 | 2 | |
| TIKUR ANBBESSA | 0 | 3 | 25 | 47 | 43 | 148 | 148 | 369 | |
| YEKATIT 12 | 2 | 5 | 3 | 13 | 22 | 16 | 251 | 159 | |
| ZEWDITU | 0 | 0 | 3 | 3 | 21 | 50 | 118 | 182 | |
| TOTAL | 2 | 17 | 82 | 180 | 358 | 508 | 1441 | 1980 | |

- Balcha and Ghandi Hospitals reported AIDS cases only once.

Table 10: Distribution of AIDS cases by reporting hospitals and by year of report, for Regional Hospitals.

| Reporting HOSPITALS | Year of Report | | | | | | | | |
|---------------------|----------------|----|----|----|----|----|----|----|--|
| | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | |
| AMBO | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 42 | |
| ARBAMINCH | 0 | 0 | 0 | 0 | 7 | 24 | 41 | 55 | |
| ASSAB* | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |
| ASSEBE TEFERI | 0 | 0 | 0 | 0 | 0 | 12 | 6 | 12 | |
| ASSEKA | 0 | 0 | 0 | 0 | 1 | 26 | 6 | 0 | |

| | | | | | | | | |
|---------|---|----|----|-----|-----|-----|------|------|
| Unknown | 0 | 0 | 00 | 2 | 1 | 7 | 3 | 23 |
| TOTAL | 2 | 17 | 85 | 190 | 448 | 885 | 3256 | 3739 |

Table 12: AIDS Cases by Risk Factors.

| Risk Factors | Male | Female | Total | Percent |
|--------------------------------|------|--------|-------|---------|
| History of multi-Partner | 4658 | 2721 | 7379 | 85.58% |
| Sexual Contact (MPSC) | | | | |
| History of Blood Transfusion | 63 | 39 | 102 | 1.18% |
| Maternal HIV or Breast Feeding | 54 | 56 | 110 | 1.28% |
| History of Illegal Injection | 56 | 50 | 106 | 1.23% |
| IV drug abuse | 4 | 2 | 6 | 0.07% |
| Unspecified | 557 | 361 | 918 | 10.65% |

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

| Clinical manifestations: | Males | Females | Total |
|--|-------|---------|--------|
| Major Symptoms | | | |
| Weight loss > 10% of body weight (Failure to thrive) | 4898 | 3001 | 7899 |
| Prolonged Fever for > 1 month | 4635 | 2834 | 7469 |
| Chronic Diarrhoea for > 1 month | 3514 | 2143 | 5657 |
| Minor Symptoms | | | |
| Generalized Lymphadenopathy | 1473 | 759 | 2232 |
| Persistent Cough for > 1 month | 3748 | 2239 | 5987 |
| Skin rashes | 115 | 61 | 176 |
| Tuberculosis (pulmonary and/or Disseminated) | 1068 | 613 | 1681 |
| Recurrent herpes zoster | 874 | 448 | 1322 |
| Generalized pruritic dermatitis | 891 | 582 | 1473 |
| Oropharyngeal candidiasis 1079 | | 1712 | 19.86% |
| Pneumonia (including PCP) 378 | 633 | 589 | 6.83% |
| Chronic herpes simplex | 211 | 44 | 89 |
| CNS derangement | 45 | 44 | 144 |
| Night sweats & Generalized 110 | 100 | 167 | 1.94% |
| Body Weakness | 57 | | |
| Loss of appetite | 18 | 6 | 24 |
| Kaposi's Sarcoms | 27 | 8 | 35 |

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Table 14. Status of AIDS cases report for Addis Ababa Hospitals, January-October, 1993.

| Hospital | J | F | M | A | M | J | J | A | S | O |
|-----------------|---|---|---|---|---|---|---|---|---|---|
| Alert | X | | X | X | X | X | X | X | | X |
| Amanuel | | | | | | | | X | | |
| Armed Forces | | X | | | X | | X | | | |
| Balcha | | | | | | | | | | |
| Central Command | | | X | | | X | | | | |
| Central Prison | | | | | | | | | X | X |
| Ethio-Swedish | | | | | | | | | | |
| Ghandi | | | | | | | | | | |
| Kolfie TBC | | | | | | | | X | | X |
| Minilik II | | X | X | X | X | | | | X | |
| St. Paulos | X | | | | | X | X | | X | X |
| St. Petros | | X | X | | X | | X | | X | |
| Police | X | X | | | | | | | X | |
| Ras Desta | | | X | | | | X | X | | |
| Tatek | | | X | | X | | | | | |
| Tikur Anbesa | | X | | | | | X | | X | |
| Yekatit 12 | X | X | X | X | | X | X | | X | X |
| Zewditu | X | | X | | | | X | X | | |

- ◆ Aert, Yekatit 12, Menelik II, St, Petros, Zewditu and Tikur Anbesa Hospitals are cooperative in reporting at least every two or three months.
- ◆ Amanuel, Central Command, Central Prison, Kolfie TBC, Police, Ras Desta and Tatek Hospitals are not frequently reporting.
- ◆ Balcha, Ethio-Swedish and Ghandi Hospitals gave no reports for the last ten months of 1993.

Table 14. Status of AIDS cases report for Regional Hospitals, January-October, 1993.

| Hospital | J | F | M | A | M | J | J | A | S | O |
|----------------|---|---|---|---|---|---|---|---|---|---|
| Ambo | X | | | X | | | | X | | X |
| Arbaminch | | X | | | | | | X | X | |
| Asebe teferi | X | | | | | | | | X | |
| Assela | | | | | | | | | | |
| Attat | X | | X | | X | | X | | X | X |
| Bornea | | | | | | | | | | |
| Bushulo | X | X | X | X | X | X | X | X | X | X |
| Debre berhan | | | | | | | X | | | X |
| Debre markos | | | X | | | | | | | |
| Debre tabor | | | | | | | | | | |
| Dissie | | | | | | | | | | |
| Dire dawa | | X | X | | X | | X | | | X |
| Felege hiwot | | | | | | | | | | |
| Ghimbi | | | | | | | | | | |
| Goba | | | | | | | | | | |
| Gondar college | | | | X | | | X | | | |
| Heroes center | X | | | | | | | | | |
| Hiwot fana | X | | X | | X | | X | | | |
| Hossana | | | | | | | | | | |
| Jimma | | X | X | X | | | X | | X | |
| Metehara | | | | | | | | | | |
| Mizan | | | | | | | | | | |
| Nazreth | | | | | X | | | | X | X |
| Nekemet | X | X | | | | X | | | | |
| Pawie | | X | | | X | | | | | |
| Shashemene | | | | X | | | | | | |
| Woldiya | | | | X | | | | | | |
| Wonji | X | X | | X | X | X | | X | | X |
| yirgalem | X | X | | X | | | X | | | |

- ◆ Bushulo Halth Center has been reporting every month.
- ◆ Wonji, Attat, Dawa, jimma, Ambo, Hiwot Fana and Yirgalem Hospitals also report some report some how every tow or three months.
- ◆ Arbaminceh, Nazerth, Nekempt, Asebe Teferi, Debre Berhan, Gondar College, Pawi, Debre markos, Heros Center, Shashemene and Woldiya hospitals report cases although not regular.
- ◆ While Asela, Borena, Debre Tabor, Dessie, Felege Hiwot, Ghimbi, Goba, Hossana, Metehara and Mizan Hospitals have not reported for the last 10 months of the year.

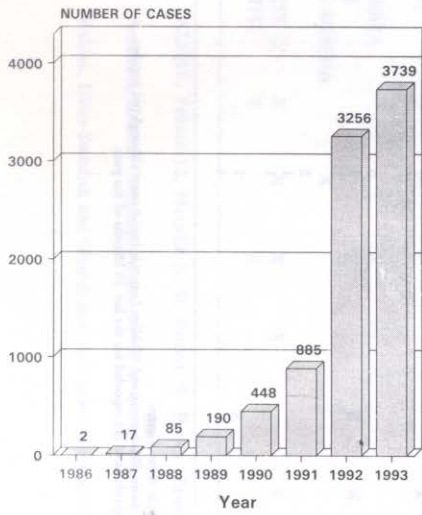


Figure 1. Reported AIDS Cases by Year of Report

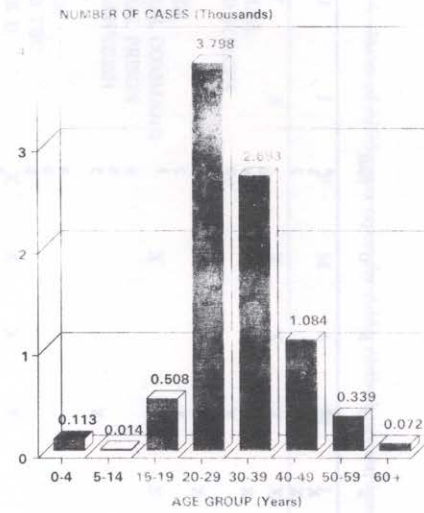
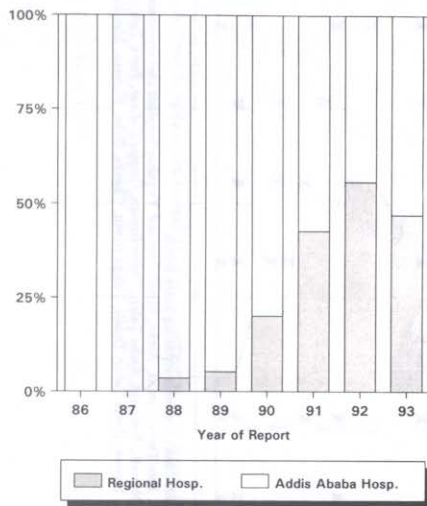


Figure 2. Age Distribution of Reported AIDS Cases in Ethiopia, as of October 31, 1993.



Feb. 1986 - October 1993.

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

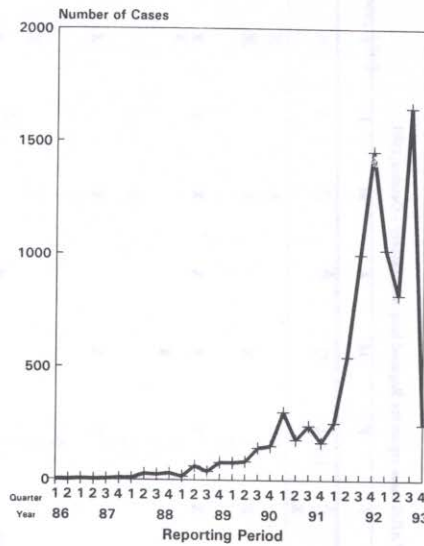


Figure 4. Trend of Reported AIDS Cases by Quarter of Report, in Ethiopia