HIV/AIDS IN AFRICA

Health Studies Branch
International Programs Center
Population Division
U.S. Bureau of the Census

Research Note No. 20

Prepared for the

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Preface

This research note is the 20th of a series of short research documents resulting from analysis conducted in the Health Studies Branch of the International Programs Center, Population Division, U.S. Bureau of the Census. Distribution in the research note format is intended to allow for rapid dissemination of results to a specialized audience, highlighting recent developments or emerging trends. Reports containing a more thorough presentation and discussion of research findings will continue to be issued in the International Programs Center Staff Paper series.

This note was prepared by the staff of the Health Studies Branch—Karen Stanecki De Lay, Chief, and Jinkie Corbin, Anne Ross, Peggy Seybolt, Lisa Mayberry, and David Rudolph. Peter O. Way, Special Assistant, International Programs Center, Population Division, also reviewed the report and provided comments. The preparation of this report was supported by funding from the U.S. Agency for International Development.

Comments and questions regarding this study should be addressed to Karen Stanecki De Lay or Peter Way, International Programs Center, Population Division, Bureau of the Census, Washington, D.C. 20233-8860; telephone (301) 457-1406.
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Country Profiles for African Countries:

Benin Botswana  
Burkina Faso  
Burundi  
Cameroon  
Central African Republic  
Chad  
Congo  
Côte d'Ivoire  
Djibouti  
Egypt  
Eritrea  
Ethiopia Gabon  
The Gambia Ghana  
Kenya  
Lesotho  
Madagascar  
Malawi  
Mali  
Morocco  
Mozambique  
Namibia  
Niger  
Nigeria  
Rwanda  
Senegal  
Sierra Leone  
South Africa  
Swaziland  
Tanzania  
Togo  
Uganda  
Zaire  
Zambia  
Zimbabwe
HIV Levels and Trends

As of mid-1995, the World Health Organization Global Programme on AIDS (WHO/GPA) estimated that over 11 million adult infections had occurred in Africa with an estimated 8.5 million HIV-infected adults still alive.¹ Of those infected, about one-half to two-thirds were in east and central Africa, an area which accounts for only about one-sixth of the total population of Sub-Saharan Africa. In the countries most affected by HIV and AIDS, a quarter or more of the adult urban populations is infected with HIV.

Recent evidence also shows that infant and child mortality levels are increasing in several countries most affected by AIDS.² Life expectancy, which had enjoyed a 40-year period of advance, is now declining in many of the most affected countries. In a prospective cohort study in rural Masaka District, Uganda, the HIV-1 epidemic has had a profound impact on adult mortality even though prevalence and incidence rates in adults are relatively low, 8 and 1 percent, respectively.³ The HIV-attributable mortality fraction was 44 percent for adult men, 50 percent for adult women, and 89 percent for adults aged 25-34 years (both sexes combined) (Figure 1). In a study in Rakai District, Uganda, 87 percent of all deaths in adults aged 20-39 years occurred in persons with HIV (Figure 1).⁴ The cumulative effect of national AIDS epidemics will be staggering.

Geographic Distribution

Despite the fact that HIV/AIDS epidemics in the region are now more than a decade old, much geographic variation remains in current levels of HIV infection between and within countries. Factors that can be shown or hypothesized to contribute to the observed geographical variation include the timing of HIV entry into the population, sexual practices before and outside of marriage, prevalence of sexually transmitted diseases in the population, and male circumcision, as well as socioeconomic factors such as urban migration for work (mostly single males) and proximity to major highways. The geographic pattern of infection is likely to change over time. In those rural areas where no studies have been conducted, HIV infection levels may be lower.

HIV-1 and HIV-2 have both been detected in Africa. Maps 1-4 show the most recently available data by country in Africa. Among high-risk urban populations, HIV-1 is highest in those countries along the Rift Valley; HIV-1 seroprevalence levels over 40 percent are seen from Ethiopia down to Zambia (Map 1). The epicenter for HIV-1 in West Africa is Abidjan, Côte d’Ivoire. HIV-1 seroprevalence levels are over 40 percent among high-risk urban populations in Côte d’Ivoire, Mali, Benin and

Introduction

As infection by the Human Immunodeficiency Virus (HIV) and the impact of the Acquired Immune Deficiency Syndrome (AIDS) spread within population groups throughout the world, they threaten to become the overriding demographic and social issues for countries in Africa, Latin America and Asia in the 1990's.

This report describes levels and trends of HIV infection along the themes of geography, time, and population, highlighting recent patterns and trends, emerging epidemics and the ever-expanding diffusion of HIV. Data presented in the following discussion are taken from the HIV/AIDS Surveillance Data Base, developed and maintained at the U.S. Bureau of the Census, with funding support from the U.S. Agency for International Development. Data are regularly compiled from the scientific and technical literature, as well as presentations at major international conferences. The HIV/AIDS Surveillance Data Base currently contains over 25,000 data records drawn from over 3,500 publications and presentations.

In this report we use the terms “high risk” and “low risk” to describe various sampled populations. By high risk we refer to studies of commercial sex workers and their clients and also include sexually transmitted disease (STD) clinic patients. Obviously, the relevant factor is the behavior of the population (i.e., unprotected sex with multiple partners) rather than any particular descriptive label. In the low-risk category, we include studies of pregnant (prenatal) women and general population samples. Low risk is not meant to imply no risk, since pregnant women are, by definition, recently sexually active.

<table>
<thead>
<tr>
<th>High-Risk populations include:</th>
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<tbody>
<tr>
<td>Commercial Sex Workers</td>
</tr>
<tr>
<td>STD Clinic Patients</td>
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<table>
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<tr>
<th>Low-Risk populations include:</th>
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<tbody>
<tr>
<td>Pregnant Women</td>
</tr>
<tr>
<td>General Population Surveys</td>
</tr>
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</table>
economic need is the force driving many women to commercial sex work. The selling of sex may be the only choice many women have for themselves and their children between starvation and survival.

Data are available on HIV infection among samples of urban commercial sex workers in the *HIV/AIDS Surveillance Data Base* for Sub-Saharan Africa (Figure 3). The most recent data show infection levels over 30 percent for many countries. In several countries more than half of these women are infected. As we will see with data from other population groups, infection levels in many countries are increasing. For example, in Abidjan, Côte d'Ivoire, seroprevalence among commercial sex workers rose from 69 percent in 1990 to 86 percent in 1992-93.

**STD Clinic Patients**

Patients attending STD clinics can be considered a sample of the population with frequent casual sexual contact, since they or their partners are likely to have had sexual contact with others. They are at elevated risk both due to the presence of multiple partners as well as due to the potentially enhanced risk of HIV infection among those with various other STDs.

Patterns of an increase in HIV infection among samples of STD patients for several Sub-Saharan African countries are shown in Figure 4. Continued growth in infection levels is noted in Tanzania, Kenya, Côte d'Ivoire, and most recently in South Africa (results for black females). The infection levels in the capital cities of these countries have reached over 20 percent for STD patients.

Recent data from Botswana indicate high levels of HIV seroprevalence in STD clinic patients. Rates among STD clinic patients from the 2nd National HIV Sentinel Surveillance Survey in 1993 have ranged from around 15 percent in Ghanzi and Lobatse districts to rates as high as 30 percent in Gabarone, 44 percent in Chobe/Kasane district, and 49 percent in Francistown.

Studies of STD patients in several other countries have documented HIV infection levels over 50 percent (Figure 5). Patterns of sex differentials in HIV infection are now becoming more consistent. In all of these cases, females have higher HIV infection levels than males. Data among STD clinic patients from the various provinces in Zambia, by sex, indicate 1991 HIV seroprevalence rates ranging from 40 to 70 percent for women and 35 to 60 percent for men (Figure 6). These findings highlight the particular vulnerability of women to HIV infection among STD patients.

**Pregnant Women**

Much information has been gathered on pregnant women. Since most pregnant women will attend a government antenatal clinic at some point, they are relatively easy to follow. Research has shown...

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Cameroon. Among low-risk urban populations, the same pattern is seen with higher HIV-1 seroprevalence levels in urban centers along the Rift Valley from Kenya to Zimbabwe (Map 2). In fact, in several of these countries, HIV-1 seroprevalence levels among the urban low-risk populations are around 25 percent.

HIV-2 is found only in a few countries predominantly in West Africa and in the former Portuguese colonies of Angola and Mozambique. The routes of transmission and risk factors for HIV-1 and HIV-2 are similar and both result in AIDS. However, the latency period for HIV-2 appears to be longer, and vertical transmission (from mother to child) is rare. Maps 3 and 4 show the geographic distribution of HIV-2 between high- and low-risk urban populations. High levels of HIV-2 seroprevalence are seen in Côte d'Ivoire, Mali, Benin and Angola.

Maps 5 through 9 are regional maps providing a more detailed geographic distribution of HIV seroprevalence among low-risk populations. These maps point out the variability of the epidemic not only among but also within countries.

Urban/Rural Differentials

Large differentials in HIV infection levels between urban and rural areas of a country have been shown in many Sub-Saharan countries. Data from Burundi, for example, found 20 percent of sampled pregnant women in Bujumbura to be infected in 1992, while 5 percent of pregnant women in semiurban areas and 2 percent of pregnant women in rural areas were HIV positive (Figure 2). In Malawi, 33 percent of urban pregnant women tested were HIV positive compared to 12 percent of rural pregnant women (1993). Similar patterns were seen from studies conducted in Côte d'Ivoire, Rwanda, Tanzania, and Uganda (see also Figures 9 and 10).

Commercial Sex Workers.

Given the predominant role that heterosexual transmission plays in the HIV epidemic in many countries, it should be no surprise that commercial sex workers and their clients have an important role in this pandemic. Commercial sex workers, because of the number of their sexual partners, are, in many countries, the group at greatest risk for HIV infection. From the beginning of the HIV/AIDS pandemic, commercial sex workers were stigmatized, discriminated against, and blamed by society as vectors of HIV infection. Before AIDS, few groups bothered investigating the underlying problems leading women to commercial sex work. Researchers are now beginning to document that

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Source references for the figures are contained in a separate listing following the text, maps, and charts.
Blood Donors

Early in the HIV/AIDS epidemic, concerns about the blood supply were often raised. As a result many countries began donor screening programs. Early in the epidemic, HIV seroprevalence among blood donors was used as an indicator of seroprevalence levels among the general population. While blood donors provided an easy population to test, it does not appear that this group represents a valid proxy for the general population.

As epidemics mature, and as populations become increasingly aware of the association of risk behavior and HIV infection, blood donors tend to be less representative of the general population. Data from Rwanda demonstrate this phenomenon—between 1985 and 1990, HIV infection among blood donors in Kigali decreased steadily from 13.5 to 2.1 percent, while surveillance data for the general population and pregnant women documented continued increases in HIV infection in the population at large.

Age and Sex Patterns

Age patterns are influenced by the tendency for males to choose a younger female as a spouse (as well as a casual sexual partner). This behavior results in higher HIV infection levels in younger women than males in the same age cohort, while older males tend to have higher infection levels than females of the same age. This pattern is shown in Figure 8 for Masaka, Uganda; Figure 9 for the Rakai District in Uganda; and Figure 10 for Mwanza, Tanzania.

Available data from several African countries in the latest round of sexual behavior surveys suggest that a differential in sexual behavior exists, with males more likely to engage in casual sexual contacts than females. However, the precarious state of women’s reproductive health in the world’s poorer nations combined with lack of treatment for STD’s among women who are asymptomatic or ashamed to seek care at an STD clinic place women at an augmented risk.

As was noted earlier, WHO now estimates that more women than men are being infected in Sub-Saharan Africa. However, the timing of the epidemic and sexual behavior patterns will influence these results. In Uganda, for example, serosurveys have found 1 infected male for each 1.4 infected females, while in Côte d’Ivoire, rural seroprevalence levels imply nearly 2 infected males per infected female in the rural area. In Mali, a national seroprevalence study found HIV prevalence levels were higher for women than men in nearly every region (Figure 11). In Masaka, Uganda, a low prevalence region (overall prevalence 4.8 percent) similar results were obtained, 5.3 percent of the women were HIV positive versus 4.4 percent of the men (Figure 8).
that women in traditional marriages and regular partnerships rarely exhibit risky sexual behaviors. However, WHO estimates that worldwide 50 percent of all new HIV infections are in women, and in Sub-Saharan Africa the share is 60 percent.9 A study of HIV positive Baganda women in Uganda suggested that the husband’s behavior put the women at risk since most of these women had no sexual partners outside of marriage.10 In another study in Kigali, Rwanda, 24 percent of women who thought they were in mutually monogamous relationships were HIV positive.11 Even among women who had only one lifetime partner—their husband—21 percent were infected. Although little or no information is available for the partners of these women, these findings imply that HIV seroprevalence among the men is at least as high if not higher.

Since 1985, HIV seroprevalence studies of pregnant women have been conducted in a number of African countries (Figure 7). A variety of studies over the past 8 or more years in Uganda, Zambia, and Malawi show a consistent and rapid increase in HIV infection levels among pregnant women in the capital cities of these countries. By 1990, more than 20 percent of the samples of pregnant women in those areas were infected. Kigali, Rwanda (not shown in Figure 7), with a reported infection rate of over 30 percent since 1989, is another major urban area with high levels of infection. In the neighboring country of Burundi, 20 percent of pregnant women attending prenatal clinics in Bujumbura were HIV positive in 1992.

In contrast, seroprevalence levels among pregnant women in Kinshasa have been relatively stable over the past several years. Researchers, however, suspect that these reported stable seroprevalence levels are masking increasing incidence levels among younger age groups.

Infection levels for pregnant women in Abidjan increased rapidly to around 10 percent by 1987, appeared to have reached a plateau by 1990, but have started increasing again. Rates are increasing in other West African countries. In Bobo Dioulasso, Burkina Faso, a study conducted from June 1990 to July 1991, reported infection rates of 13 percent among pregnant women. In Nigeria, the most populous country in Africa, rates reported from the antenatal clinics from the Sentinel Surveillance system, November 1991 to March 1992, ranged from 0 percent in Borno, Cross River and Edo States to 2 percent in Kano and Lagos states.

Alarming increases in rates of HIV seroprevalence have been recorded among pregnant women in Botswana. In Francistown, HIV seroprevalence increased from less than 10 percent in 1991 to over 30 percent in 1993 and in Gabarone, HIV seroprevalence rose from 6 percent in 1990 to 19 percent in 1993.

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Map 1
African HIV-1 Seroprevalence for High-Risk Urban Populations

Percent Seropositive
- 0.0 to 0.2
- 0.3 to 2.5
- 2.6 to 10.0
- 10.1 to 25.0
- 25.1 to 40.0
- Over 40.0
- No Data

Conclusion

The HIV/AIDS pandemic continues to spread throughout Africa. In each country the details of the epidemic vary, having its own distinct origin, geographic patterns of dispersion, and particular population subgroups affected. But across Africa the roots of the pandemic are shared. It is predominantly heterosexual, being transmitted by unprotected sex with multiple partners. Specific risk behaviors and practices differ from one culture to the next, but the common roots suggest that a common set of behavior changes can result in reduced numbers of new infections. Yet no country in the region can claim to be spared from this pandemic. Within the region, high proportions of women without high-risk activity are at risk for infection due to the behavior of their partners, and infants and children are at risk through maternal-child transmission.

However, there is some reason for cautious optimism. Recent data from a rural Uganda cohort indicates a potential decline in HIV-1 seroprevalence among young adults in a general population. A randomized trial conducted in rural Tanzania concluded that improved STD treatment reduced HIV incidences by about 40 percent in the population studied. These and other positive results coming from an aggressive anti-AIDS campaign in Thailand should encourage the active pursuit of AIDS control methods. We have learned that no single approach will contain the epidemic and all means are necessary.

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Map 3
African HIV-2 Seroprevalence for High-Risk Urban Populations

Percent Seropositive

- 0.0 to 0.5
- 0.6 to 5.0
- 5.1 to 7.5
- 7.6 to 10.0
- 10.1 to 12.5
- Over 12.5

No Data
Map 2
African HIV-1 Seroprevalence for Low-Risk Urban Populations

Percent Seropositive
- Less than 0.1
- 0.1
- 0.2 to 1.0
- 1.1 to 5.0
- 5.1 to 10.0
- Over 10.0
- No Data

Map 4
African HIV-2 Seroprevalence for Low-Risk Urban Populations

Percent Seropositive

- Less than 0.1
- 0.1
- 0.2 to 1.0
- 1.1 to 5.0
- 5.1 to 10.0
- Over 10.0
- No Data

Map 7: Seroprevalence of HIV-2 for Low-Risk Populations in West Africa

Pct. Seropositive

- 0.0
- 0.1 - 0.9
- 1.0 - 4.9
- 5.0 - 9.9
- 10.0 - 19.9
- 20.0 +

Map 6: Seroprevalence of HIV-1 for Low-Risk Populations in West Africa

Pct. Seropositive

- 0.0
- 0.1 - 0.9
- 1.0 - 4.9
- 5.0 - 9.9
- 10.0 - 19.9
- 20.0 +

Map 8: Seroprevalence of HIV-1 for Low-Risk Populations in Central Africa

Pct. Seropositive

- ○ 0.0
- ○ 0.1 - 0.9
- ○ 1.0 - 4.9
- ○ 5.0 - 9.9
- ○ 10.0 - 19.9
- ● 20.0 +
Figure 2: Urban - Rural Differentials in HIV Infection for Africa
Figure 1: Empirical Evidence of AIDS Impact on Mortality

Deaths per 1,000 population

- AIDS-related
- Non-AIDS

Rakai District, Uganda
Adult HIV Prevalence: 21%

Masaka District, Uganda
Adult HIV Prevalence: 8%
Figure 4: HIV Seroprevalence for STD Patients in Urban Areas of Selected African Countries: 1982-94

Note: Includes infection from HIV-1 and/or HIV-2.
Figure 3: HIV Seroprevalence for Commercial Sex Workers in Sub-Saharan Africa: Circa 1992

Côte d'Ivoire, 92-93
Kenya, 1992
Ethiopia, 1991
Mali, 1992
Cameroon, 1992
Djibouti, 1991
Tanzania, 1991
Benin, 1993
Ghana, 1991
Zaire, 1991
Niger, 1993
Nigeria, 1994
Senegal, 1992
Somalia, 1990

HIV Seroprevalence (%)

Note: Includes infection from HIV-1 and/or HIV-2
Figure 6: HIV Seroprevalence for STD Clinic Patients in Various Provinces
Zambia: 1991
Figure 5: HIV Seroprevalence for STD Patients by Sex in Selected African Countries

<table>
<thead>
<tr>
<th>Location</th>
<th>Year</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangui, CAR</td>
<td>1989</td>
<td></td>
<td>15%</td>
</tr>
<tr>
<td>Addis A., Eth</td>
<td>1989</td>
<td></td>
<td>10%</td>
</tr>
<tr>
<td>Nairobi, Kenya</td>
<td>1992</td>
<td></td>
<td>18%</td>
</tr>
<tr>
<td>Kigali, Rwanda</td>
<td>1991</td>
<td></td>
<td>45%</td>
</tr>
<tr>
<td>J'burg, S Afr</td>
<td>1994</td>
<td></td>
<td>20%</td>
</tr>
<tr>
<td>Kampala, Ugan</td>
<td>1990</td>
<td></td>
<td>40%</td>
</tr>
<tr>
<td>Dar., Tanzania</td>
<td>1991</td>
<td></td>
<td>20%</td>
</tr>
<tr>
<td>Lusaka, Zambia</td>
<td>1991</td>
<td></td>
<td>60%</td>
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</table>

HIV Seroprevalence (%)

Note: Includes infection from HIV-1 and/or HIV-2.
Figure 8: HIV Seroprevalence of Adult Population
Masaka, Uganda by Age and Sex: 1989-90
Figure 7: HIV Seroprevalence for Pregnant Women in Selected Urban Areas of Africa: 1985-1994

Note: Includes infection from HIV-1 and/or HIV-2.
Figure 10: HIV Seroprevalence for Mwanza, Tanzania by Age, Sex, and Residence: 1990-1991
Figure 9: HIV Seroprevalence for Rakai District by Age, Sex, and Residence: 1990
Sources for HIV/AIDS in Africa

The following list contains the complete citation for data used in the graphs and maps of the "HIV/AIDS in Africa" paper.


A0144 Acquaye, J. K., 1993, Screening of Blood Donors for Antibody to Human Immuno Deficiency Virus Type 1, West African Journal of Medicine, vol. 12, no. 2, pp. 93-95.


Figure 11: HIV Seroprevalence for General Population by Region and Sex, Mali: 1992

Note: Includes infection from HIV-1 and/or HIV-2.
Sources for HIV/AIDS in Africa cont.


Sources for HIV/AIDS in Africa cont.


Sources for HIV/AIDS in Africa cont.

K0117 Hawkes, S., N. Whittle, R. Jagne, et al., 1994, The Increase in HIV-1 Prevalence in Commercial Sex Workers (CSWs) in the Gambia, and Association with Other STDs Including ..., Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Session 393C.


Sources for HIV/AIDS in Africa cont.


HD115 Harry, T., 1994, Seven Years of HIV/AIDS in Maiduguri, Nigeria, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Abstract P.C.0043.

HD116 Hasan, M. A., 1994, Sexual Behaviour of Inhabitants of Cemeteries in Cairo, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Abstract 118D.
Sources for HIV/AIDS in Africa cont.


Sources for HIV/AIDS in Africa cont.


M0237 Maku, E. J. K., A. M. Kosa, N. Mansaray, 1992, A Strategy to Control HIV Infection among Female Commerical Sex Workers (CSW) and Their Clients in Freetown, Sierra Leone, VII International Conference on AIDS in Africa, Yaounde, Cameroon, 12/8-11, Abstract T.P.098.


Sources for HIV/AIDS in Africa cont.


Sources for HIV/AIDS in Africa cont.


Personal communication with Maria Wawer.
Sources for HIV/AIDS in Africa cont.


Sources for HIV/AIDS in Africa cont.


T0102 Tanzania Ministry of Health, 1992, National AIDS Control Programme, Surveillance Report No. 7., December, Epidemiology Unit, NACP.

T0123 Tanzania Ministry of Health, 1994, National AIDS Control Programme, Surveillance Report, no. 8, June, Epidemiology Unit, NACP.


U0026 U.S. Department of State, 1994, HIV/AIDS Update for Malawi, Unclassified Cable, September, Lilongwe 003358.

U0027 U.S. Department of State, 1994, AIDS in the Central African Republic, Unclassified Cable, April, Bangui 001505.


APPENDIX
Benin

- Studies of HIV infection among sexually transmitted diseases clinic attendees found prevalence increasing in three cities. In Tanguieta, HIV levels rose from 5.1 percent in 1992 to 8.3 percent in 1993. In Cotonou, levels rose from 0.5 percent in 1990 to 3.7 percent in 1993 and in Natitingou from 1.1 in 1992 to 1.5 in 1993. In Porto Novo and Parakou, HIV infection levels were less than 2 percent in 1990.

- In Porto Novo, the capital city, HIV infection levels among pregnant women rose from 0.6 percent to 1.4 percent in the 1990-93 period. In other cities, HIV infection levels were less than 1 percent.

- In rural areas, HIV infection levels among pregnant women showed a very slow but steady increase from 1990 to 1993. Results suggest HIV infection levels among rural pregnant women are similar to those seen in urban pregnant women.

### Benin

#### Demographic Indicators

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (1,000s)</td>
<td>5,342</td>
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<tr>
<td>Growth Rate (%)</td>
<td>3.3</td>
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<tr>
<td>Infant Mortality Rate</td>
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</tr>
<tr>
<td>Both Sexes</td>
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<tr>
<td>Male</td>
<td>119</td>
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<tr>
<td>Female</td>
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<tr>
<td>Life Expectancy</td>
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<td>Both Sexes</td>
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<td>Male</td>
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<td>Percent Urban</td>
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**Note:** Above indicators are for 1994.

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<th>Metric</th>
<th>Value</th>
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<tbody>
<tr>
<td>Cumulative AIDS rate (per 1,000) as of 5/9/94</td>
<td>0.14</td>
</tr>
<tr>
<td>Cumulative AIDS cases as of 5/9/94</td>
<td>742</td>
</tr>
</tbody>
</table>

**Sources:** U.S. Bureau of the Census, United Nations, World Health Organization.

### Epidemiological Data

- Female prostitutes are at high risk for HIV infection in Benin. The levels of HIV infection in prostitutes vary by province. In 1993, HIV seroprevalence ranged from 15 percent to 58 percent.

![HIV Seroprevalence for Prostitutes Six Provinces in Benin: 1993](chart)

Sources for Benin


Botswana

- Data from the second HIV sentinel surveillance survey among pregnant women show HIV seroprevalence levels ranging from 9.5 percent to 20.0 percent in various districts. In the capital city, Gaborone, the HIV seroprevalence level among pregnant women attending antenatal clinics is 19.2 percent. HIV seroprevalence in the rural districts of Serowe/Palapye and Chobe/Kasane was as high as those seen in Gaborone and the town of Lobatse. Kweneng and Ghanzi are rural districts.

- The highest HIV prevalence level among pregnant women in Botswana is found in Francistown. The national HIV sentinel surveillance surveys show a steady increase in HIV infection levels, reaching 34.3 percent in 1993.

- HIV seroprevalence among women in the age group of 15 to 29 years increased by more than 50 percent in just one year, 1992-1993. The pattern of HIV infection level by age among pregnant women in Francistown is similar to that found in other countries, whereby the peak infection level for women is in their twenties.

Botswana

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>1,359</th>
<th>Growth Rate (%)</th>
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<tr>
<td>Infant Mortality Rate</td>
<td>Both Sexes</td>
<td>Life Expectancy</td>
<td></td>
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<tr>
<td>Male</td>
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<td>Male</td>
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<td>66</td>
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<td>Crude Birth Rate</td>
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<td>Crude Death Rate</td>
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<tr>
<td>Total Fertility Rate</td>
<td>4.1</td>
<td>Percent Urban</td>
<td>30</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994:

Cumulative AIDS rate (per 1,000) as of 12/31/93 | 1.05
Cumulative AIDS cases as of 12/31/93 | 1,415


Epidemiological Data

- In 1993, the second HIV sentinel surveillance survey was carried out in Botswana. Thirty percent of the males attending sexually transmitted disease (STD) clinics in the capital city of Gaborone were HIV positive. Over 40 percent of males attending STD clinics in Francistown and Chobe/Kasane were HIV positive.

Sources for Botswana

Botswana

- In another study, data for blood donors show HIV infection ranging from 1 percent to 7 percent in various districts.

Burkina Faso

- Early studies among a small sample of sexually transmitted diseases patients in Ouagadougou showed evidence only of HIV-2 infection. In a more recent study in the city of Bobo Dioulasso, HIV levels were 14.6, 1.0 and 2.6 percent for HIV-1, HIV-2 and dual infection, respectively. Both viruses are present in Burkina Faso as indicated in these studies.

- Early studies done among a small sample of pregnant women in Ouagadougou during February 1985 and January 1987 reported 1.7 percent of pregnant women were HIV-1 infected, with no evidence of HIV-2 or dual infection. More recently, a study in Bobo Dioulasso reported HIV-2 and dual infection levels under 5 percent and an HIV-1 level of 7.2 percent. Thus, HIV has made substantial inroads into this population of relatively low risk.

- There have been very few studies published on HIV seroprevalence among blood donors in Burkina Faso. One study in the capital city, Ouagadougou, showed the overall HIV prevalence rate to be 10 percent among blood donors in 1988-89.

Burkina Faso

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>10,135</th>
<th>Growth Rate (%)</th>
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</tr>
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<tbody>
<tr>
<td>Infant Mortality Rate</td>
<td></td>
<td>Life Expectancy</td>
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</tr>
<tr>
<td>Both Sexes</td>
<td>118</td>
<td>Both Sexes</td>
<td>47</td>
</tr>
<tr>
<td>Male</td>
<td>125</td>
<td>Male</td>
<td>46</td>
</tr>
<tr>
<td>Female</td>
<td>112</td>
<td>Female</td>
<td>48</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>48</td>
<td>Crude Death Rate</td>
<td>18</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.9</td>
<td>Percent Urban</td>
<td>19</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/31/93 | 0.42 |
Cumulative AIDS cases as of 12/31/93 | 4,193 |


Epidemiological Data

- Among groups who engage in high-risk sexual behavior, such as prostitutes, high levels of HIV infection have been reported. Evidence of this is shown in a study of prostitutes in the capital city of Ouagadougou. By age, HIV-1 levels ranged from 0 to 14.3 percent with those 50+ most infected. HIV-2 levels ranged from 9.8 to 41.6 percent, with a maximum in ages 40-49.

Sources for Burkina Faso


Burundi

- In a study conducted among pregnant women from three clinics in Bujumbura in 1991-92, HIV infection levels were reported lowest among women aged 15-19 years and highest among women aged 20-24 years. This follows the same age pattern as seen in other African countries.

- Pregnant women visiting a prenatal clinic in Rumonge, a semiurban area, were tested for HIV infection during the 3-year period, 1991-93. The HIV infection level reached 17.2 percent for this area by 1993.

- Urban/rural differentials in HIV infection levels exist within Burundi as elsewhere. Infection levels in semiurban areas (important commercial centers) are twice as high as those in rural areas.

Burundi

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
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</tr>
<tr>
<td>Female</td>
<td>103</td>
<td>Female</td>
<td>42</td>
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<tr>
<td>Crude Birth Rate</td>
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<td>Crude Death Rate</td>
<td>21</td>
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<tr>
<td>Total Fertility Rate</td>
<td>6.7</td>
<td>Percent Urban</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/10/93 | 1.19 |
Cumulative AIDS cases as of 12/10/93 | 7,225 |


Epidemiological Data

- Seroprevalence studies of pregnant women attending antenatal clinics in the capital city of Bujumbura reported levels of HIV infection to be stable but over 15 percent since 1986.

Burundi

- HIV seroprevalence levels among blood donors remained essentially unchanged from 1988 to 1991. However, in 1992, HIV infection increased to 10.2 percent.

Sources for Burundi


Cameroon

- Similar to Yaoundé, HIV infection among commercial sex workers tested in the port city of Douala increased to 45 percent in 1992. A study conducted among commercial sex workers in 1993 documented HIV seroprevalence levels at 35 percent.

- Among sexually transmitted disease patients tested in Yaoundé, HIV-1 infection levels have been increasing, reaching 5.4 percent in 1994. There was no evidence of HIV-2 infection in this population over the 1988-94 period.

- In selected cities, HIV seroprevalence among STD clinic patients tested in 1992 ranged from 4.3 percent in Kumba to 8.8 percent in Ngaoundere.

Cameroon

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>13,852</th>
<th>Growth Rate (%)</th>
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</thead>
<tbody>
<tr>
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<td>Life Expectancy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
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<td>Both Sexes</td>
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<tr>
<td>Male</td>
<td>87</td>
<td>Male</td>
<td>52</td>
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<tr>
<td>Female</td>
<td>73</td>
<td>Female</td>
<td>54</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
<td>43</td>
<td>Crude Death Rate (per 1,000)</td>
<td>13</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.1</td>
<td>Percent Urban</td>
<td>45</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 12/31/94 | 0.39
Cumulative AIDS cases as of 12/31/94 | 5,375


Epidemiological Data

- HIV-1 infection dramatically increased among commercial sex workers in the capital city of Yaoundé from less than 10 percent in the late 1980s to over 25 percent in 1992. Studies conducted in the mid-1990s document seroprevalence of over 20 percent among commercial sex workers tested.

Cameroon

- HIV-1 infection levels among pregnant women in Bertoua, Garoua, Kumba, and Limbe increased from 1989-94. HIV infection in Kumba and Limbe, two cities in the Southwest Province, more than doubled in 2- and 4-year periods, respectively. Much higher seroprevalence levels were seen among pregnant women in Bertoua than in the other three cities.

- In Manyemen, a rural area located in South West Province, HIV-1 infection levels among pregnant women were just as high as HIV levels in some cities of Cameroon. There was no evidence of HIV-2 among these rural pregnant women.

- The level of HIV infection among blood donors in Yaoundé has remained virtually the same over the 7-year period 1987-93, fluctuating around 3-4 percent. The percent of blood donors testing HIV positive in Douala increased from less than 1 percent in 1987 to nearly 5 percent in 1990 and 1991.

Cameroon

- HIV infection has also been documented among low-risk populations in Cameroon. A 1992 study in the city of Batouri reported 2 percent of the general population tested were HIV-1 infected. Another study of individuals selected among the general population in Limbe, an industrial harbor in the Southwest Province, reported HIV-1 infection level of 9.7 percent in 1994.

- Since 1989, the percent of pregnant women testing HIV positive in Yaoundé has nearly quadrupled. HIV prevalence increased from 0.7 percent in 1989 to 2.7 percent in 1994. Pregnant women testing HIV positive in Douala increased from 1.1 percent in 1990 to nearly 6 percent in 1994.

- In Bamenda, the Northwest Province capital, HIV infection levels among pregnant women tested increased dramatically over the 5-year period 1989-1994 from less than 1 percent to nearly 8 percent.

Source for Cameroon


HIV infection levels among blood donors in other areas vary. In Limbe and Nkongsamba, HIV levels increased to nearly 6 percent. In Bamenda, 1992, and in Bertoua, 1991, HIV infection levels were 3.3 percent and 4.2 percent, respectively. Data from Batouri in 1991 and Bafoussam in 1992 showed no evidence of HIV infection.

Central African Republic

- Sentinel surveillance of STD clinic patients in three other cities indicates similar HIV infection levels. In Bambari, HIV infection increased among STD patients from 22 percent in 1990 to 31 percent in 1992. A study conducted in Bossangoa from 1991 to 1993 reported HIV infection levels fluctuating between 20 and 30 percent. In Bocar, the HIV infection level among STD patients was 18 percent in 1990.

- Annual surveys of pregnant women have documented a slow but steady increase of HIV-1 infection in Bangui over the 1986-1990 period from nearly 5 to 7.4 percent. However, data collected by local maternity clinics in 1993 reported HIV seroprevalence levels of 16 percent.

- A study conducted among pregnant women in three cities in Central African Republic reported different HIV seroprevalence levels. In Gamboula, located in Haute Sangha Prefecture on the border with Cameroon, the study found no HIV infection in 1989, but by 1992, the HIV infection level rose to 3.7 percent. In Batangafo, located in Ouham Prefecture, and in Bossangoa, HIV infection levels fluctuated between 5 and 7 percent from 1991 to 1993.

# Central African Republic

## Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>Growth Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,142</td>
<td>2.2</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Infant Mortality Rate</th>
<th>Life Expectancy</th>
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</thead>
<tbody>
<tr>
<td>Both Sexes</td>
<td>Both Sexes</td>
</tr>
<tr>
<td>137</td>
<td>43</td>
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<tr>
<td>Male</td>
<td>Male</td>
</tr>
<tr>
<td>146</td>
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<tr>
<td>Female</td>
<td>Female</td>
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<tr>
<td>128</td>
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<table>
<thead>
<tr>
<th>Crude Birth Rate</th>
<th>Crude Death Rate</th>
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</thead>
<tbody>
<tr>
<td>42</td>
<td>21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Fertility Rate</th>
<th>Percent Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4</td>
<td>50</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

- Cumulative AIDS rate (per 1,000) as of 11/30/92: 1.23
- Cumulative AIDS cases as of 11/30/92: 3,730


## Epidemiological Data

- In the capital city Bangui, seroprevalence studies report a steady increase of HIV infection from 21 percent in 1990 to 31 percent in 1993 among STD patients.

### HIV Seroprevalence for STD Clinic Patients in Bangui, CAR: 1990-1993

![HIV Seroprevalence Chart]

Sources for Central African Republic


U0027 U.S. Department of State, 1994, AIDS in the Central African Republic, Unclassified Cable, April, Bangui 001505.

Central African Republic

- In 1990, studies among pregnant women in various cities indicated HIV seroprevalence levels ranging from 6.5 percent to 8.5.

- A 1989 study reported the percent of blood donors positive for the HIV virus to be 9.2 percent in Bangui and 5 percent in Bouar. However, a 1990 study reported an increase in HIV level for Bouar to 8.5 percent.

Chad

- Results from the 1992 WHO report on AIDS surveillance in three towns in Chad showed the percent of pregnant women testing positive for HIV varied by town. Testing in the northern area, Abeche, had a low prevalence rate of 0.3 percent while the southern areas, Moundou and Sarh, had higher prevalence rates of 9.1 percent and 4.1 percent, respectively.

- In the same report, HIV seroprevalence levels among blood donors also varied by city. HIV levels ranged from 8.8 percent in Moundou city to 3.6 in the capital city, N'Djamena.

Chad

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Growth Rate (%)</th>
<th>Value</th>
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<tr>
<td>Infant Mortality Rate</td>
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<tr>
<td>Both Sexes</td>
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<td></td>
</tr>
<tr>
<td>Male</td>
<td>129</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>135</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life Expectancy</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>41</td>
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<td></td>
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<td>Male</td>
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<tr>
<td>Female</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>5.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Urban</td>
<td>36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/10/93: 0.28
Cumulative AIDS cases as of 12/10/93: 1,523


Epidemiological Data

- A sero-epidemiological survey conducted in four towns in Chad in 1989 among adults from the general population found levels of HIV-1 infection varying from 0 to 1.6 percent. HIV-2 infection was not detected.

Sources for Chad


Congo

- In two successive 6-month periods in Brazzaville, HIV infection among STD clinic patients increased 2 percentage points from 16.5, January-June 1990, to 18.5 percent, July-December 1990.

![HIV Seroprevalence for STD Clinic Patients in Brazzaville, Congo: 1990](chart)

- HIV infection in pregnant women in Brazzaville has tripled in recent years from 3 percent in 1988 to 9 percent in 1991.

![HIV Seroprevalence for Pregnant Women Brazzaville, Congo: 1988-1991](chart)

- HIV infection among pregnant women from these sentinel surveillance sites ranged from 5.2 percent to 12.5 percent. These sites cover a wide geographical range in the Congo.

![HIV Seroprevalence for Pregnant Women Selected Areas in Congo: 1992](chart)

Congo

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (1,000s)</td>
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<tr>
<td>Infant Mortality Rate</td>
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<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>111</td>
<td>Both Sexes</td>
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</tr>
<tr>
<td>Male</td>
<td>118</td>
<td>Male</td>
<td>46</td>
</tr>
<tr>
<td>Female</td>
<td>104</td>
<td>Female</td>
<td>49</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>40</td>
<td>Crude Death Rate</td>
<td>16</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>5.3</td>
<td>Percent Urban</td>
<td>43</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 3/23/94: 2.63
Cumulative AIDS cases as of 3/23/94: 6,393


Epidemiological Data

- A study conducted in 1987 reported HIV infection levels of 34.3 percent among prostitutes in the capital city of Brazzaville and 64.1 percent among prostitutes in the port city of Pointe Noire.

Sources for Congo


Congo

- Recent studies conducted in the city of Loubomo and in the port city of Pointe Noire have also found HIV infection rates ranging from 5 to 10.3 percent among pregnant women.

- Studies conducted among blood donors in Brazzaville from 1985-91 indicated a decrease in HIV infection levels. This may be attributed to donors who felt they may have been exposed to the virus declining to donate or to donor screening programs.

Côte d'Ivoire

- Male STD clinic patients provide the best opportunity to study HIV infection among "high-risk" males. A recent study in Abidjan confirms the exposure of this group to the risk of infection.

- In all age categories, HIV infection levels were higher among men than women except in the urban age group 15-24.

- HIV-1 infection has risen rapidly in pregnant women in Abidjan over the past several years. However, HIV-2 infection has remained 4 percent or below. Abidjan's infection level now places it among the more infected areas in Africa, surpassing areas which showed higher rates of infection in 1986.

Côte d'Ivoire

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
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<th>Growth Rate (%)</th>
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<td>Female</td>
<td>86</td>
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<td>Crude Birth Rate</td>
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<td>Crude Death Rate</td>
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<tr>
<td>Total Fertility Rate</td>
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<td>Percent Urban</td>
<td>43</td>
</tr>
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</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 2/24/94 | 1.32
Cumulative AIDS cases as of 2/24/94 | 18,670


Epidemiological Data

- Since 1986, HIV infection has increased dramatically among commercial sex workers in the capital and port city of Abidjan. In Abidjan, the rate of HIV-1 infection is higher than the rate of HIV-2.

Sources for Côte d'Ivoire


Côte d'Ivoire

- Levels of HIV seroprevalence in pregnant women in Côte d'Ivoire vary by regions. In 1987-88, HIV-1 infection levels ranged from 0 to 3.5 percent and HIV-2 levels varied from 0 to 1.3 percent.

- Over the last several years, patterns of HIV infection among blood donors in Abidjan show a mixed trend. As awareness of AIDS grows, those considering themselves at risk may be declining to donate. The rate of HIV-2 is generally less than HIV-1 in this population group.

Djibouti

- Studies conducted among sexually transmitted diseases patients in 1987 and 1990 showed seroprevalence levels of 0.9 percent and 1.9 percent, respectively, in the capital city, Djibouti. Although levels of HIV infection vary considerably across Africa, the infection level observed in Djibouti within this risk group was lower than studies from other East African countries.

Djibouti

Demographic Indicators

<table>
<thead>
<tr>
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<td>Both Sexes</td>
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<tr>
<td>Male</td>
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<tr>
<td>Female</td>
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<tr>
<td>Life Expectancy</td>
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</tr>
<tr>
<td>Both Sexes</td>
<td>49</td>
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<tr>
<td>Male</td>
<td>47</td>
</tr>
<tr>
<td>Female</td>
<td>51</td>
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<tr>
<td>Crude Birth Rate</td>
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<tr>
<td>Crude Death Rate</td>
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<tr>
<td>Percent Urban</td>
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</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 4/19/94: 1.19
Cumulative AIDS cases as of 4/19/94: 490


Epidemiological Data

- The prevalence of HIV infection among prostitutes in the capital city of Djibouti increased over the 4-year period from 1987 to 1991. The levels of HIV increased dramatically among street prostitutes from 4.6 percent in 1987 to 43 percent in 1991. Among barmaids, HIV levels increased from 1.4 percent in 1987 to 13.1 percent in 1991, showing both groups to be at high risk for acquiring HIV.

Sources for Djibouti


Egypt

- Serosurveys were conducted from April 1986 to March 1990 among high-risk groups and low-risk groups in Egypt. Results from these studies show low or no evidence of HIV prevalence among high-risk groups. In the low-risk groups, i.e., blood donors and pregnant women, there was no evidence of HIV infection.

Egypt

Demographic Indicators

<table>
<thead>
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</tr>
</thead>
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<tr>
<td>Crude Death Rate</td>
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<td>Total Fertility Rate</td>
<td>3.8</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>45</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 2/7/94: 0.00
Cumulative AIDS cases as of 2/7/94: 91


Epidemiological Data

- A 1987-88 study among male STD clinic patients attending an STD clinic in Cairo found the HIV-1 infection level to be 0.7 percent. A more recent study from the same STD clinic showed the prevalence of HIV-1 to have remained low, 0.8 percent.

Source for Egypt


Eritrea

- In 1988, an HIV seroprevalence study was conducted among prostitutes in different urban areas in Eritrea. Assab, located near Djibouti, had the highest HIV infection level, 31.5 percent. Results from Keren and Massawa, both located near Sudan, were much lower at 2.5 and 1.3 percent, respectively.

- Results from the Ethiopian Red Cross Society blood bank in Asmara show that between 1988 and 1991, approximately 1.5 percent of blood donors were HIV infected.

Eritrea

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>3,309</th>
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</tr>
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</tr>
<tr>
<td>Both Sexes</td>
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<td>Both Sexes</td>
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</tr>
<tr>
<td>Male</td>
<td>133</td>
<td>Male</td>
<td>48</td>
</tr>
<tr>
<td>Female</td>
<td>112</td>
<td>Female</td>
<td>51</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>43</td>
<td>Crude Death Rate</td>
<td>16</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.6</td>
<td>Percent Urban</td>
<td>13</td>
</tr>
</tbody>
</table>

Notes: Above indicators are for 1994. Percent urban refers to Ethiopia before Eritrea's independence.

Cumulative AIDS rate (per 1,000) as of 12/31/92: 0.12
Cumulative AIDS cases as of 12/31/92: 372


Epidemiological Data

- Very few studies among prostitutes in Eritrea have been reported. Results from studies conducted in Asmara, the capital, show HIV infection levels more than doubled from 1988 to 1989.

Sources for Eritrea


Ethiopia

- Significant levels of HIV infection have also been observed outside of Addis Ababa. The level of HIV infection observed in Metu's prostitutes was lower than any other city. However, all cities showed increasing levels of HIV infection.

- Studies conducted in Addis Ababa in 1987 and 1989 show more than a quadrupling of HIV infection for female STD patients and a doubling for males during this two-year period.

- Very few studies of HIV infection in the general population of Ethiopia have been published. However, in 1993, a study conducted in six rural areas reported an HIV seroprevalence level of 1.8 percent among the general population (age range 15-49).

Ethiopia

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (1,000s)</td>
<td>54,253</td>
</tr>
<tr>
<td>Growth Rate ($)</td>
<td>3.2</td>
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<tr>
<td>Infant Mortality Rate</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>122</td>
</tr>
<tr>
<td>Male</td>
<td>133</td>
</tr>
<tr>
<td>Female</td>
<td>112</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>50</td>
</tr>
<tr>
<td>Male</td>
<td>48</td>
</tr>
<tr>
<td>Female</td>
<td>51</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>47</td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>16</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>7.1</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>13</td>
</tr>
</tbody>
</table>

Notes: Above indicators are for 1994. Percent urban refers to Ethiopia before Eritrea's independence.

Cumulative AIDS rate (per 1,000) as of 6/3/94: 0.24
Cumulative AIDS cases as of 6/3/94: 12,958


Epidemiological Data

- In high risk populations, significant levels of HIV infection have been seen in Ethiopia. In Addis Ababa, the HIV infection level among prostitutes increased from 0.6 percent in 1985 to 54.2 percent in 1990.

Sources for Ethiopia


Ethiopia

- In 1989, a study conducted in the capital city, Addis Ababa, reported a level of HIV infection among pregnant women of 2.1 percent. Another study conducted in Dire Dawa and Metu reported HIV infection levels of 6.9 and 2.8 percent, respectively, in 1991.

- HIV seroprevalence data from the Ethiopian Red Cross Society blood banks show an increase in HIV infection levels among both sexes. Furthermore, HIV seroprevalence levels are higher among males than females.

- Data from the above study indicate HIV infection levels increased from 1990 to 1991 among blood donors in Dessie and Harrar/Dire Dawa. In Jimma, HIV levels remained relatively the same from 1989 to 1991.

Gabon

- In Franceville, HIV infection levels among the general population in 1993 were moderately low. This study found HIV-1 seroprevalence (1.0 percent) higher than HIV-2 (0.2 percent). In addition, dual infection was present (0.6 percent).

- A recent study from two areas reported HIV infection levels among pregnant women less than 2 percent. In Estuaire Province and Libreville region, HIV levels were 1.2 percent and 1.8 percent, respectively.

Gabon

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>Growth Rate (%)</th>
<th>Life Expectancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.139</td>
<td>1.5</td>
<td>Both Sexes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
</tr>
<tr>
<td>95</td>
<td></td>
<td>Female</td>
</tr>
<tr>
<td>107</td>
<td></td>
<td>55</td>
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<tr>
<td>83</td>
<td></td>
<td>52</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>58</td>
</tr>
</tbody>
</table>

Crude Birth Rate | 4.0
Crude Death Rate | 14
Percent Urban | 49

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/10/93 | 0.42
Cumulative AIDS cases as of 12/10/93 | 472


Epidemiological Data

- In the capital city, Libreville, HIV-1 infection among sexually transmitted diseases clinic attendees doubled between 1987 and 1988. HIV-2 and dual infections were absent in 1987 but were detected in 1988.

![HIV Seroprevalence for STD Clinic Patients in Libreville, Gabon: 1987-1988](image)

Sources for Gabon


The Gambia

- In Banjul, the capital city, a seroprevalence study of STD patients found somewhat equal levels of infection in both sexes. The most noticeable deviation occurred with dual infection. None of the females showed dual infection, while nearly 1 percent of males were so infected.

- A serosurvey carried out in greater Banjul and three other areas found about 2 percent of a sample of adults infected with HIV-2 but only 0.1 percent infected with HIV-1.

- In Banjul, at the Royal Victoria Hospital, a study of pregnant women found a notable difference between HIV-1 and HIV-2 infection levels. HIV-1 seroprevalence was only 0.1 percent compared with 1.3 percent for HIV-2.

The Gambia

Demographic Indicators

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value 1</th>
<th>Value 2</th>
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</thead>
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<tr>
<td>Population (1,000s)</td>
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</tr>
<tr>
<td>Growth Rate (%)</td>
<td>3.1</td>
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<tr>
<td>Infant Mortality Rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>124</td>
<td></td>
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<tr>
<td>Male</td>
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<td></td>
</tr>
<tr>
<td>Female</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>Female</td>
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<td></td>
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<tr>
<td>Crude Birth Rate</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.3</td>
<td></td>
</tr>
<tr>
<td>Percent Urban</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/31/93: 0.29
Cumulative AIDS cases as of 12/31/93: 277


Epidemiological Data

- Similar to other countries in West Africa, The Gambia has higher HIV-2 infection levels than HIV-1. Evidence of this is shown in this study conducted among prostitutes in three urban towns in The Gambia. The HIV-2 infection level is 21 percent while HIV-1 is 8 percent. About 6 percent of the prostitutes are dually infected with HIV-1 and HIV-2.

Sources for Gambia

W0117 Hawkes, S., M. Whittle, R. Jagne, et al., 1994, The Increase in HIV-1 Prevalence in Commercial Sex Workers (CSWs) in the Gambia, and Association with Other STDs Including ..., Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Session 393C.


The Gambia

- HIV infection among blood donors has remained under 1 percent as indicated by this study from Banjul. HIV-1 has fluctuated between 0 and 0.4 percent of donors. On the other hand, HIV-2 appears to have peaked in 1988 and has gradually declined to around 0.4 percent in 1991.

Ghana

- In the capital city, Accra, the prevalence of HIV infection in males attending a sexually transmitted diseases clinic more than quadrupled from 2.1 percent in 1988 to 8.6 percent in 1991.

- A study of blood donors was conducted for two months in high endemic areas of Ghana (where previous seroprevalence studies had reported high levels of HIV infection). A study of blood donors in a low endemic area was done for a period of one year. HIV-1 seroprevalence among blood donors in the high endemic area, 4.5 percent, was twice the HIV-1 level in the low endemic area, 2.2 percent. HIV-2 levels have remained under 1 percent in both areas.

Ghana

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
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<tbody>
<tr>
<td>Population (1,000s)</td>
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<tr>
<td>Infant Mortality Rate</td>
<td></td>
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<tr>
<td>Both Sexes</td>
<td>83</td>
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<tr>
<td>Male</td>
<td>90</td>
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<tr>
<td>Female</td>
<td>76</td>
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<tr>
<td>Life Expectancy</td>
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<tr>
<td>Both Sexes</td>
<td>56</td>
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<tr>
<td>Male</td>
<td>54</td>
</tr>
<tr>
<td>Female</td>
<td>58</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>44</td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>12</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.2</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 8/31/93: 0.69
Cumulative AIDS cases as of 8/31/93: 11,629


Epidemiological Data

- In Ghana, HIV infection levels among prostitutes increased from 25.2 percent in 1987 to 37.5 percent in 1991.

Sources for Ghana


Guinea

- Both HIV-1 and HIV-2 are present in Guinea. In 1990-91, a study in six urban areas, including the capital, reported HIV infection levels for pregnant women less than 1 percent (0.5 for HIV-1 and 0.2 for HIV-2) with no evidence of a double infection. Prevalence of HIV infection among pregnant women is lower than that reported in most other African urban areas.

- HIV-1 prevalence rates among blood donors in the capital city increased between 1987-88 and 1989-90.

Guinea

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
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<td>6,392</td>
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<td>Growth Rate (%)</td>
<td>2.4</td>
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<td>Infant Mortality Rate</td>
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<td>Both Sexes</td>
<td>139</td>
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<tr>
<td>Male</td>
<td>151</td>
</tr>
<tr>
<td>Female</td>
<td>127</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>44</td>
</tr>
<tr>
<td>Male</td>
<td>42</td>
</tr>
<tr>
<td>Female</td>
<td>46</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>44</td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>20</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>5.9</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>29</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/31/93: 0.15
Cumulative AIDS cases as of 12/31/93: 976


Epidemiological Data

- In Guinea, substantial regional variation is noted for HIV-1 infection among STD clinic attendees. Three percent of patients were HIV positive in Kindiau compared to no reported HIV infections in N’Zerekore.

Sources for Guinea

Kenya

- Those with sexually transmitted diseases (STDs) continue to be at high risk for infection. The level of HIV infection over a 4-year period among the STD clinic patients in Nairobi increased from 31.0 percent in 1989 to 58.6 percent in 1993.

- Among pregnant women in Nairobi, HIV infection was not detected until about 1985. HIV prevalence levels rose steadily at a large maternity hospital from 1985 to 1989, but may have leveled off in 1990, while levels at the Langata Health Center showed a strong continuous growth from 6.6 percent in 1989 to 15 percent in 1992.

- Sentinel surveillance data from four cities documented varying levels of HIV infection among pregnant women. The data from Mombasa, Nyeri, and Nakuru indicate increasing HIV seroprevalence levels from 1990 to 1993. Nearly 20 percent of pregnant women tested in Kisumu were HIV positive by 1990 and the rate remained constant during this period.

Kenya

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
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<tr>
<td>Population (1,000s)</td>
<td>28,817</td>
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<td>Infant Mortality Rate (per 1,000)</td>
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<tr>
<td>Both Sexes</td>
<td></td>
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<tr>
<td>Male</td>
<td>77</td>
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<tr>
<td>Female</td>
<td>70</td>
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<td>Life Expectancy</td>
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<tr>
<td>Both Sexes</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>51</td>
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<td>Female</td>
<td>54</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
<td>42</td>
</tr>
<tr>
<td>Crude Death Rate (per 1,000)</td>
<td>12</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>5.8</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>28</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 4/25/95: 1.97
Cumulative AIDS cases as of 4/25/95: 56,573


Epidemiological Data

- HIV infection has risen rapidly among prostitutes in Nairobi over the past 12 years. HIV infection increased from 7.1 percent in 1980 to 85.5 percent in 1992.

Sources for Kenya


Kenya

- HIV seroprevalence data from a rural community in Kajiado district showed a steady increase in infection levels among pregnant women tested. Infection levels rose from 0.9 percent in 1989 to 2.6 percent in 1992.

- Very few studies of HIV infection in blood donors for the capital of Kenya, Nairobi, have been published. In one study, the male prevalence level (6.2) was more than double that of the females (2.9). The overall HIV level was 5.6 percent.

Lesotho

- Reports from sentinel surveillance among STD patients in three out of 10 districts and Maluti Hospital in Lesotho note increasing HIV seroprevalence levels. In 1993, all four sites reported levels of over 10 percent. Maluti Hospital reported the highest HIV infection level, 21.3 percent of STD clinic patients tested.

- Sentinel surveillance among pregnant women in Maseru, the capital, noted HIV levels around 5-6 percent, from 1991 to 1993.

- HIV infection levels among pregnant women vary by site and over time. Data from Leribe district documented a dramatic increase in HIV infection level from 1992 to 1993. Maluti Hospital reported HIV infection levels also increased during the same period.

Lesotho

Demographic Indicators

<table>
<thead>
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<th>Population (1,000s)</th>
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<td>Infant Mortality Rate (per 1,000)</td>
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<tr>
<td>Both Sexes</td>
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</tr>
<tr>
<td>Male</td>
<td>70</td>
</tr>
<tr>
<td>Female</td>
<td>65</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>63</td>
</tr>
<tr>
<td>Male</td>
<td>61</td>
</tr>
<tr>
<td>Female</td>
<td>64</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
<td>33</td>
</tr>
<tr>
<td>Crude Death Rate (per 1,000)</td>
<td>9</td>
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<tr>
<td>Total Fertility Rate</td>
<td>4.4</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>23</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

 Cumulative AIDS rate (per 1,000) as of 12/31/94 | 0.26
 Cumulative AIDS cases as of 12/31/94 | 515


Epidemiological Data

- HIV seroprevalence in Maseru, the capital of Lesotho, among sexually transmitted diseases (STD) clinic patients increased rapidly in a short period of time from 1 percent in 1988-89 to over 10 percent by 1992. Various studies have documented that Lesotho has high levels of other STDs, increasing the risk of HIV transmission.

Sources for Lesotho

Lesotho

According to a national survey, levels of HIV seroprevalence among healthy blood donors have increased from less than 0.1 percent in 1987 to 1.8 percent in 1992.

Sources for Madagascar

## Madagascar

### Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
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</tr>
</thead>
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<tr>
<td>Population (1,000s)</td>
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<td>Growth Rate (%)</td>
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<tr>
<td>Both Sexes</td>
<td>89</td>
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<td>Male</td>
<td>96</td>
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<tr>
<td>Female</td>
<td>82</td>
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<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>54</td>
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<tr>
<td>Male</td>
<td>52</td>
</tr>
<tr>
<td>Female</td>
<td>56</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>45</td>
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<td>13</td>
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<td>Total Fertility Rate</td>
<td>6.7</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>26</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 3/14/94: 0.00
Cumulative AIDS cases as of 3/14/94: 9


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### Epidemiological Data

- Information on HIV seroprevalence in Madagascar is sparse. One 1989 study in six regional capitals and three tourist centers found HIV infection levels among several groups to be relatively low.

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Malawi

- In the capital city of Lilongwe, the HIV infection level among pregnant women has increased from 8.2 percent in 1987 to 17.9 percent in 1990. In Blantyre, HIV infection levels rose from 2 percent in 1985 to 33.0 percent in 1994.

- HIV infection varied by site of enrollment among pregnant women in rural Malawi. All four sites are located in Mangochi district. The highest levels, 11 percent, are found among those attending antenatal clinics in towns. Lower levels of 5 percent are found among women attending village clinics.

- The above study also presents HIV seroprevalence levels by age for the four sites. Pregnant women 20-24 years of age were at greater risk of HIV infection than any other age group. HIV infection was lowest among women 30 years of age and older.

Malawi

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>Growth Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,732</td>
<td>-1.1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Infant Mortality Rate</th>
<th>Life Expectancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both Sexes</td>
<td>Both Sexes</td>
</tr>
<tr>
<td>141</td>
<td>40</td>
</tr>
<tr>
<td>Male</td>
<td>Male</td>
</tr>
<tr>
<td>149</td>
<td>39</td>
</tr>
<tr>
<td>Female</td>
<td>Female</td>
</tr>
<tr>
<td>133</td>
<td>41</td>
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</table>

<table>
<thead>
<tr>
<th>Crude Birth Rate</th>
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</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Fertility Rate</th>
<th>Percent Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.4</td>
<td>13</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 2/10/94: 3.26
Cumulative AIDS cases as of 2/10/94: 31,857


Epidemiological Data

- The results of this HIV seroprevalence study among male STD clinic patients show infection levels were higher among those with a current genital ulcer, 57.2 percent, than those with urethritis, 44.1 percent. According to another study, levels of HIV infection among STD patients is high, 62.4 percent, in the capital, Lilongwe.

Sources for Malawi


L0163 Lule, G., F. Behets, I. Hoffman, et al., 1994, HIV Infection among Patients with Urethritis (U) and Genital Ulcer Disease (GUD) in Blantyre, Malawi, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P. C. 0564.


U0026 U.S. Department of State, 1994, HIV/AIDS Update for Malawi, Unclassified Cable, September, Lilongwe 003358.
Mali

- Regional data show HIV infection levels among prostitutes increased greatly over a 5-year period. Gao, Kayes, and Sikasso regions reported larger increases (two to sevenfold) in HIV infection than Mopti and Segou which already had high levels of HIV infection in 1987.

- Regional survey data among the general population show HIV infection levels ranging from 1 percent to 5 percent. In all regions except Sikasso, female HIV infection levels were higher than male HIV infection levels.

- Both HIV-1 and HIV-2 are present in the general population of Mali. One study, spanning a 7-year period, found 2.1 percent of the pregnant women infected with HIV-1, 1.3 percent with HIV-2, and 0.5 percent with dual infection.

Mali

Demographic Indicators

<table>
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<th>Value</th>
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</thead>
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<td>Both Sexes</td>
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<td>Male</td>
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<td>Female</td>
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<tr>
<td>Life Expectancy</td>
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</tr>
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<td>Both Sexes</td>
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<td>Male</td>
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<td>Female</td>
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<tr>
<td>Crude Birth Rate</td>
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</tr>
<tr>
<td>Crude Death Rate</td>
<td>20</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>7.3</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>26</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 8/31/93: 0.21
Cumulative AIDS cases as of 8/31/93: 1,874


Epidemiological Data

- HIV infection levels among prostitutes in the capital city of Bamako were already high in the late 1980's and continued high in the early 1990's. Clients of prostitutes clearly run a risk of exposure to HIV infection.

Source for Mali


Morocco

- Among STD patients in four Moroccan STD centers, HIV infection levels are lower than levels seen in Sub-Saharan Africa. The prevalence of HIV-1 infection in Agadir increased from 0.7 to 1.2 percent. In 1991, the HIV infection level was 0.3 percent in Marrakech and no evidence of infection was reported in Casablanca or Essaouira.

- Studies conducted in the capital city, Rabat, in 1993 reported 1.8 percent of blood donors and 0.2 percent of pregnant women HIV positive. However, a 1991 study reported no evidence of HIV infection among these same low risk groups in Casablanca, Marrakech, or Tangier.

Morocco

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>28,559</th>
<th>Growth Rate (%)</th>
<th>2.1</th>
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<tbody>
<tr>
<td>Infant Mortality Rate</td>
<td>Both Sexes</td>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>50</td>
<td>Both Sexes</td>
<td>68</td>
</tr>
<tr>
<td>Female</td>
<td>44</td>
<td>Male</td>
<td>66</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>29</td>
<td>Female</td>
<td>70</td>
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<tr>
<td>Crude Death Rate</td>
<td>6</td>
<td>Total Fertility Rate</td>
<td>3.8</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>48</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 5/20/94 | 0.01
Cumulative AIDS cases as of 5/20/94 | 196


Epidemiological Data

- Very few studies among prostitutes in Morocco have been reported. Results from these studies show HIV infection levels among prostitutes in Casablanca nearly doubled from 3.7 percent in 1984-87 to 7.1 percent in 1990.

Sources for Morocco


Mozambique

- Data from three sentinel posts in Mozambique indicate much higher levels of HIV infection among STD patients than the data from Maputo city. Reports from district/provincial health centers in Chimoio and Tete noted HIV levels of over 30 percent while Quelimane reported a level of 13 percent.

- A study conducted in Vilanculos, a rural area located in the north of Inhambane Province, documented levels of HIV seroprevalence among STD patients similar to those found in Maputo city. HIV-1 and HIV-2 have been detected in male patients, whereas there is no evidence of either infection among female patients.

- In 1994, sentinel data from four district/provincial health centers designated as sentinel posts show HIV seroprevalence levels among pregnant women ranging from 2.7 percent in Maputo to 18.1 percent in Tete. HIV infection levels in Maputo city were less than one-quarter of the levels in the rest of the areas.

Mozambique

Demographic Indicators

<table>
<thead>
<tr>
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<th>Value</th>
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</thead>
<tbody>
<tr>
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<td>Both Sexes</td>
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<tr>
<td>Male</td>
<td>138</td>
</tr>
<tr>
<td>Female</td>
<td>118</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
<td>46</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.4</td>
</tr>
<tr>
<td>Growth Rate (%)</td>
<td>6.4</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>44</td>
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<tr>
<td>Male</td>
<td>43</td>
</tr>
<tr>
<td>Female</td>
<td>45</td>
</tr>
<tr>
<td>Crude Death Rate (per 1,000)</td>
<td>20</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>34</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 5/31/95 | 0.11
Cumulative AIDS cases as of 5/31/95            | 1815


Epidemiological Data

- Sentinel surveillance reporting from Maputo city, the capital, has documented an increase in HIV infection among STD clinic patients. In one year, HIV seroprevalence more than tripled from 0.9 percent in the second quarter of 1990 to 3.0 percent in the second quarter of 1991. In 1994, the HIV infection level increased further to 3.8 percent.

Sources for Mozambique

B0246 Barreto, A., B. De Huisiers, A. Noya, et al., 1994, Interventions to Control STD/HIV Risk Situation Induced by Population Movements during Resettlement in Post-War Mozambique, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P.D.0531.

Mozambique

- In Zambezia Province, from 14 health posts in four rural districts, HIV infection levels among displaced (internal refugee) pregnant women tested were 1.5 percent and 0.5 percent for HIV-1 and HIV-2, respectively. There was no evidence of dual infection.

- Blood donor screening for the whole country showed a slow but steady increase in HIV prevalence among blood donors. HIV seroprevalence rose from 7.6 percent in 1991 to 9.8 percent in 1993.

Namibia

- According to the same study, the HIV infection level among pregnant women was 4.7 percent.

- Data from the Blood Transfusion Service of Namibia show HIV seroprevalence levels among blood donors increased from 0 percent in 1989 to 0.9 percent in 1993.

Namibia

Demographic Indicators

<table>
<thead>
<tr>
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</thead>
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<tr>
<td>Population (1,000s)</td>
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<td>Growth Rate (%)</td>
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<tr>
<td>Both Sexes</td>
<td>62</td>
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<tr>
<td>Male</td>
<td>70</td>
</tr>
<tr>
<td>Female</td>
<td>54</td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>62</td>
</tr>
<tr>
<td>Male</td>
<td>59</td>
</tr>
<tr>
<td>Female</td>
<td>64</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>43</td>
</tr>
<tr>
<td>Crude Death Rate</td>
<td>9</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.4</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>30</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 12/31/93: 3.25
Cumulative AIDS cases as of 12/31/93: 5,101


Epidemiological Data

- There has been little information reported on HIV seroprevalence for Namibia. One study reported an HIV infection rate among STD clinic patients of 7.2 percent in 1992.

Sources for Namibia

Niger

- Between 1987 and 1990, HIV-1 infection levels increased among the general population in the capital. Levels of dual infection remained the same. Overall HIV seroprevalence levels remained relatively low, under 3 percent.

- As early as 1987-88, HIV infection was reported among pregnant women in Niamey. Infection levels of HIV-1 and HIV-2 were 0.1 percent and the dual infection rate was 0.3 percent.

- Evidence of the risk of infection in the rural population was shown in a recent study from Niger. The HIV infection among pregnant women was 1.4 percent for a rural area located in Tahoua region.

Niger

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (1,000s)</td>
<td>8,972</td>
<td>3.4</td>
</tr>
<tr>
<td>Infant Mortality Rate</td>
<td>111</td>
<td>Both Sexes</td>
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<tr>
<td>Both Sexes</td>
<td>118</td>
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<td>Male</td>
<td>104</td>
<td>Female</td>
</tr>
<tr>
<td>Female</td>
<td></td>
<td></td>
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<tr>
<td>Crude Birth Rate</td>
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<td>Crude Death Rate</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>7.4</td>
<td>Percent Urban</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 6/15/93: 0.10
Cumulative AIDS cases as of 6/15/93: 921


Epidemiological Data

- Studies conducted in the capital, Niamey, reported moderately high HIV seroprevalence levels among commercial sex workers. The overall HIV seroprevalence level (including HIV-1, HIV-2 and dual infection) of 15.4 percent in 1993 is twice as high as the level seen in 1987-1988 (7.5 percent).

Sources for Niger


Niger

- A study of blood donors in Niamey reported relatively low levels of HIV infection. Preselection and/or prescreening may affect these results.

Nigeria

- Another study of commercial sex workers in Lagos State measured the seroprevalence of HIV-1 and HIV-2. Women in the lower class were not as likely to use condoms as the high class women. The overall prevalence rate varied by class: low class women had the highest HIV prevalence levels.

- The peak age for HIV-1 infection among commercial sex workers in Lagos State in this 1990-1991 study is 12-19 years of age. Infection with HIV-2 is present but the levels are much lower. HIV-2 infection levels vary from 1.9 percent among those 12-19 years of age to 4.1 percent among those 30-34 years old.

- The results from selected sentinel sites in various states show the range of HIV infection among STD clinic patients from 0.0 percent to 22.4 percent.

Nigeria

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
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<tr>
<td>Population (1,000s)</td>
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<td>Growth Rate (%)</td>
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<tr>
<td>Infant Mortality Rate</td>
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<td></td>
</tr>
<tr>
<td>Both Sexes</td>
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<tr>
<td>Male</td>
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</tr>
<tr>
<td>Female</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>Life Expectancy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>Crude Birth Rate</td>
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<td></td>
</tr>
<tr>
<td>Crude Death Rate</td>
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<td></td>
</tr>
<tr>
<td>Total Fertility Rate</td>
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<td></td>
</tr>
<tr>
<td>Percent Urban</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 4/4/94 0.01
Cumulative AIDS cases as of 4/4/94 1,148


Epidemiological Data

- The Federal Ministry of Health and Human Services with the World Health Organization conducted a serosurvey of HIV infection at selected sentinel sites in various states of Nigeria. The results of all the sites in each state show the range of HIV infection among commercial sex workers from 0.9 percent in Delta state to 34.6 in Benue state.

Nigeria

- Studies conducted among women attending an antenatal clinic in Maiduguri State in 1991 and 1993 report an HIV seroprevalence level of 2.1 percent and 2.4 percent, respectively.

- In Benin city, the HIV infection levels among the blood donors show a slow but steady increase to 0.4 percent in 1991.

- National HIV seroprevalence surveys among blood donors were conducted annually from 1985 through 1990 in Nigeria. The results show a steady increase in both HIV-1 and HIV-2 infection, from no evidence of infection in 1985 to 3.8 percent and 3.2 percent in 1990.

Nigeria

- The HIV infection level among male STD clinic patients in Lagos State is 14.3 percent which is more than double the infection level of 5.2 percent found among female patients attending the same clinic.

- Data collected on high risk populations in Maiduguri, Nigeria, show a steady increase in HIV infection between 1987 and 1990. In 1990, HIV seroprevalence reached 1.7 percent among STD patients and 4.3 percent among commercial sex workers (CSW).

- Reports from sentinel sites within the states of Nigeria show the overall HIV seroprevalence level among pregnant women to range from 0.2 percent in Oyo state to 5.8 percent in Jigawa state.

Sources for Nigeria


HO113 Harry, T., 1994, Seven Years of HIV/AIDS in Maiduguri, Nigeria, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Abstract P.C.0043.

10334 Ilori, O., C. M. Awolabi, G. K. Macaulay, et al., 1994, STD and HIV among Patients at a Public Health Lab, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P.C.0565.


Nigeria

- Studies conducted in Maiduguri City between 1987 and 1993 showed an increase in the HIV infection levels among blood donors. HIV seroprevalence levels increased from 0 percent in 1987 to 4.1 percent in 1992.

HIV infection levels among pregnant women in Kigali increased from 23.2 percent in 1989 to 33.4 percent in 1992-93.

During the second half of 1991 a sentinel surveillance study was conducted among pregnant women. HIV infection levels varied moderately between the different urban sites and were relatively high ranging from 20 percent to 30 percent.

According to the same sentinel surveillance study, pregnant women from the rural areas had much lower levels of HIV infection than urban women. In most rural areas, HIV infection levels among pregnant women were moderately low ranging from 0.5 percent to 3.0 percent, except in two semirural areas, Gahini and Kayove, 8.9 percent and 7.9 percent, respectively.

Rwanda

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>8,374</th>
<th>Growth Rate (%)</th>
<th>2.8</th>
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</thead>
<tbody>
<tr>
<td>Infant Mortality Rate</td>
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<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
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<td>Both Sexes</td>
<td>40</td>
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<tr>
<td>Male</td>
<td>126</td>
<td>Male</td>
<td>39</td>
</tr>
<tr>
<td>Female</td>
<td>111</td>
<td>Female</td>
<td>41</td>
</tr>
<tr>
<td>Crude Birth Rate</td>
<td>49</td>
<td>Crude Death Rate</td>
<td>21</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>8.2</td>
<td>Percent Urban</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 6/30/93 | 1.32
Cumulative AIDS cases as of 6/30/93 | 10,706


Epidemiological Data

- A survey conducted at the Health Center of Biryogo, located in the center of Kigali, the capital, showed high levels of HIV infection among STD clinic patients. Women visiting this STD clinic had higher levels of HIV infection than men.

Sources for Rwanda


Rwanda

- In a sample of pregnant women from mostly rural areas in the Butare region, HIV prevalence in 1989-91 peaked at 14 percent for ages 20-24 years. A similar age pattern is seen in a study of pregnant women in Kigali. HIV seroprevalence levels peaked in ages 20-24 at 36.6 percent during 1992-93.

- In 1988, HIV seroprevalence for blood donors in the urban areas of Rwanda was much higher than in rural areas (18 percent compared to 2 percent). However, by 1992, the HIV infection level among blood donors in the rural areas doubled to 4.3 percent.

- As epidemics mature, blood donors become less representative of the general population if action is taken to screen out persons at high risk of having been infected with HIV. Results from a study conducted in Kigali, the capital city, over the past 7 years indicated a decrease in the HIV seroprevalence among blood donors even though rates among pregnant women continue to increase.

Senegal

- Sentinel surveillance data from 4 of the 10 regions show the variability in HIV infection among prostitutes. In each case however, the level of HIV-2 was higher than the level of HIV-1.

- In Dakar, levels of HIV-1 infection among STD clinic attendees increased between 1989-1992, while at the same time, HIV-2 infection levels fluctuated. Other studies in Senegal over this period document the gradual spread of HIV-1 to other regions of the country.

- In Casamance Region, the level of HIV-2 infection among the general population in 1990 was the same for males and females, 0.8 percent. However, the HIV-1 infection level among males was 0.1 percent and there was no evidence of HIV-1 infection among women.

Senegal

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Both Sexes</td>
<td>76</td>
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<td>Male</td>
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<tr>
<td>Female</td>
<td>72</td>
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<tr>
<td>Life Expectancy</td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>57</td>
</tr>
<tr>
<td>Male</td>
<td>55</td>
</tr>
<tr>
<td>Female</td>
<td>58</td>
</tr>
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<td>Crude Birth Rate</td>
<td>43</td>
</tr>
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<td>Crude Death Rate</td>
<td>12</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.1</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>42</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 5/31/93: 0.11
Cumulative AIDS cases as of 5/31/93: 911


Epidemiological Data

- HIV-1 infection levels increased from 0 in 1985 to 3.9 percent in 1992 among registered prostitutes in the capital, Dakar. Over the same period, infection levels of HIV-2 increased from 7.0 percent to 9.1 percent. Studies in other cities in Senegal among registered prostitutes showed similar patterns.

Senegal

- Analysis of data for blood donors from November 1987 to March 1990 showed that HIV-2 seroprevalence declined over the period. HIV-1 was evident in 1988 and has been 0.1 percent throughout the study period.

- Levels of HIV seroprevalence in blood donors were less than 1 percent in several regions of Senegal. However, HIV-2 prevalence in the Kaolack Region was slightly over 1 percent in 1992.

Senegal

- According to a study conducted among the general population in a rural area of Senegal in 1990, ages 25-29 years were at greater risk of having been infected with HIV-2 than any other age group. HIV-1 was only present in the age groups 25-29 and 30-39.

- In a 1987-88 study of pregnant women in Dakar, no evidence of HIV-1 was found and HIV-2 had a prevalence of 0.1 percent. However, in a more recent study during 1991-93, HIV-2 levels increased to 0.5 percent and HIV-1 prevalence was 0.3 percent.

- HIV infection levels among pregnant women vary by region. During 1989-92, HIV-2 seroprevalence levels were generally higher than HIV-1. In Saint Louis Region no evidence of HIV-1 was found.

Source for Senegal


Sierra Leone

- A study conducted among STD clinic patients in Freetown found the total HIV infection to be 4.5 percent in 1988, over one-half attributable to HIV-1 and dual infection.

- Studies conducted in Freetown among blood donors showed a slight increase in the level of HIV infection, 6.7 percent to 7.1 percent between 1987-89 and 1990-91.

- A regional analysis of HIV infection levels among blood donors showed HIV infection present in the Western area (1.7 percent), Northern Province (1.0 percent), Eastern Province (3.6 percent) and Southern Province (1.8 percent).

Sierra Leone

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
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</tr>
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<tbody>
<tr>
<td>Infant Mortality Rate</td>
<td>Life Expectancy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sexes</td>
<td>Both Sexes</td>
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<td></td>
</tr>
<tr>
<td>Male</td>
<td>Male</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>Female</td>
<td>49</td>
<td></td>
</tr>
<tr>
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<td>45</td>
<td>Crude Death Rate</td>
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</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.0</td>
<td>Percent Urban</td>
<td>35</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 7/7/93 | 0.02 |
Cumulative AIDS cases as of 7/7/93 | 95 |


Epidemiological Data

- There are few studies available on HIV seroprevalence among prostitutes in Sierra Leone. However, one recent study conducted in Freetown, the capital city, during a one day workshop in December 1991 found 27.5 percent of prostitutes HIV positive.

HIV Seroprevalence for Prostitutes
Freetown, Sierra Leone: 1991

Sources for Sierra Leone


South Africa

- Studies of STD clinic patients in Johannesburg indicate an increase in the level of HIV infection among both males and females for almost all population groups from 1988 to the early 1990's. The greatest increases and the highest infection levels have been observed among the black population. Female STD clinic patients had higher seroprevalence levels than males in the black, coloured, and Asian subgroups, but among whites, male clinic patients had higher levels.

- In 1993, the fourth national HIV seroprevalence survey was conducted in South Africa among pregnant women. Based on all four surveys, HIV infection increased in all four provinces. However, the HIV level in Natal/KwaZulu Province more than tripled.

- In 1994, the fifth national HIV seroprevalence survey included data for the newly formed provinces. As in the previous four surveys, HIV infection was highest among pregnant women in KwaZulu/Natal Province. Cape Province has been subdivided into three new provinces with the highest HIV seroprevalence reported from Eastern Cape, 4.6 percent. Levels varied from 1.6 percent in Western Cape Province to 13.5 percent in KwaZulu/Natal Province.

South Africa

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
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<th>2.6</th>
</tr>
</thead>
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<td>Life Expectancy</td>
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</tr>
<tr>
<td>Both Sexes</td>
<td>46</td>
<td>Both Sexes</td>
<td>65</td>
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<tr>
<td>Male</td>
<td>44</td>
<td>Male</td>
<td>63</td>
</tr>
<tr>
<td>Female</td>
<td>48</td>
<td>Female</td>
<td>68</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
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<td>Crude Death Rate (per 1,000)</td>
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<td>4.4</td>
<td>Percent Urban</td>
<td>51</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 7/27/94: 0.09
Cumulative AIDS cases as of 7/27/94: 3,849


Epidemiological Data

- Sentinel surveillance from Johannesburg documents the steady but marked increase in HIV seroprevalence among STD clinic patients over a 6-year period. Infection levels increased from 0.9 percent in 1988 to 20.1 percent in 1994.

South Africa

- HIV seroprevalence surveys among women attending antenatal clinics in a rural health district hospital, Hlabisa Health Ward, located in northern Zululand, South Africa, reported an increase in HIV levels. The data indicated rapidly rising HIV seroprevalence to 7.9 percent in 1993.

- The Department of Health blood donor surveillance has documented the increase in HIV prevalence among black blood donors from 1987 through 1994. HIV levels among women were slightly higher than those among men.

South Africa

- The 1991, 1992, 1993, and 1994 national HIV seroprevalence surveys documented the pattern of HIV infection by age. Data from all four years showed a similarity in age patterns; the peak of HIV infection was in the 20-24 year age group. The data from 1994 documented a marked increase in HIV seroprevalence levels over 1993.

- HIV seroprevalence levels among black pregnant women varied by area. The 1991-1993 data showed a doubling in HIV levels for Ciskei, Transkei, and Venda. However, KaNgwane continued to have the highest HIV infection level.

- Serosurveillance conducted by the National Institute for Virology and the Johannesburg City Health Department indicated a variation in HIV infection among pregnant women. HIV infection levels among black pregnant women were the highest compared to White, Asian and Coloured pregnant women.

Sources for South Africa


W0096 Wilkinson, D., 1994, Anonymous Antenatal HIV Seroprevalence Surveys in Rural South Africa, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Session 070C.
Swaziland

- From the above study, analysis of the age specific patterns for all regions shows the most affected age group among males was 35-39 and among females, 30-34.

- According to the same sentinel surveillance study, a regional analysis of HIV infection levels among pregnant women showed HIV infection to be present in all regions. The HIV level of infection was around 4 percent in all regions except for Lubombo which had an HIV prevalence level of 2.0 percent.

- The HIV infection level among blood donors shows a steady increase over a 3-year period, 1990-1992.

Swaziland

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
<th>936</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth Rate (%)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Infant Mortality Rate</th>
<th>Life Expectancy</th>
</tr>
</thead>
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<tr>
<td>Both Sexes</td>
<td>Both Sexes</td>
</tr>
<tr>
<td>Male</td>
<td>Male</td>
</tr>
<tr>
<td>Female</td>
<td>Female</td>
</tr>
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<td>93</td>
<td>56</td>
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<td>84</td>
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<table>
<thead>
<tr>
<th>Crude Birth Rate</th>
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<tbody>
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<td>43</td>
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<table>
<thead>
<tr>
<th>Total Fertility Rate</th>
<th>Percent Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>30</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 2/1/94: 0.45
Cumulative AIDS cases as of 2/1/94: 413


Epidemiological Data

- In 1992, the first HIV sentinel surveillance study was conducted in all four administrative regions. Female STD patients had lower levels of HIV infection than male patients, except in Hhohho region.

HIV Seroprevalence by Region for STD Clinic Patients in Swaziland: 1992

Sources for Swaziland

Tanzania

- HIV infection levels among commercial sex workers in Mwanza and Morogoro also show very high prevalence in the early 1990s.

- Female STD clinic patients in Dar es Salaam generally had higher HIV seroprevalence levels than male patients. Data from several reports showed HIV rates for females fluctuating between 20 and 40 percent since 1988.

- In the Mbeya region, HIV infection levels among STD clinic patients steadily increased over a 4-year period from 22.5 to 34.3 percent.

Tanzania

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Both Sexes</td>
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<td>Male</td>
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<tr>
<td>Female</td>
<td>97</td>
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<td>Life Expectancy</td>
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<tr>
<td>Both Sexes</td>
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</tr>
<tr>
<td>Male</td>
<td>41</td>
</tr>
<tr>
<td>Female</td>
<td>44</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
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<td>Crude Death Rate (per 1,000)</td>
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<tr>
<td>Total Fertility Rate</td>
<td>6.2</td>
</tr>
<tr>
<td>Percent Urban</td>
<td>24</td>
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</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 6/30/94: 1.64
Cumulative AIDS cases as of 6/30/94: 45,968


Epidemiological Data

- In the capital city, Dar es Salaam, reported HIV infection levels among commercial sex workers already exceeded 40 percent during 1988-1991.

Tanzania

- Sentinel surveillance in Tanzania has documented the variability of HIV seroprevalence in pregnant women tested. For all regions except Mara region, an increase in HIV levels was noted. HIV seroprevalence among pregnant women ranged from less than 10 percent in Mara to over 20 percent in Bukoba, Iringa, and Rukwa.

- Sentinel surveillance documents urban/rural differentiation in HIV infection levels for the Mbeya region. In both areas, HIV infection levels in pregnant women tested are increasing. From late 1988 to 1993, HIV infection levels for rural pregnant women more than quadrupled, rising from 2.9 percent to 13.2 percent. The HIV infection levels for urban pregnant women doubled from 9.5 percent to 19.8 percent during this same period.

- In the urban area of Mwanza region, the level of HIV infection for pregnant women remained virtually the same over the period 1988-1993, with about one woman in eight infected.

Tanzania

- According to a study conducted among adults from rural villages in Mwanza region for 1992, the highest rate of HIV infection fell in the age range of 25-34 years for both sexes. The overall HIV infection level was slightly higher among females than males.

- HIV-1 prevalence levels among the adult population in the Arusha region, northern Tanzania, from low and high socioeconomic status (SES) urban areas and rural villages were 10.7, 5.2, and 1.6 percent, respectively. In the urban areas, HIV prevalence levels were higher among females than males: 6.5 and 1.7 percent, respectively.

- HIV infection levels among pregnant women in the capital city, Dar es Salaam, almost doubled from 8.9 percent in 1989 to 16.1 percent in 1993.

Tanzania

- A national AIDS surveillance study of blood donors showed HIV levels of infection varying considerably by age. HIV infection among male blood donors was about 6 percent in their twenties and thirties, and slightly lower in older age groups. Female blood donors in their twenties had an HIV infection level of 8 percent. In most older age groups, the male infection rate among blood donors was higher than the female.

Tanzania

- Sentinel surveillance data collected in four centers from towns and rural areas of Unguja and Pemba Islands indicate the spread of HIV infection to Zanzibar. The HIV infection levels are under 1 percent for both pregnant women and male blood donors. However, among pregnant women HIV levels increased while among male blood donors there was a reported decrease.

- In the Mbeya region in southwest Tanzania, HIV seroprevalence among blood donors remained the same from 1988 to 1990. However, in 1992 HIV levels increased to 13.1 percent.

- In 1991, HIV seroprevalence among blood donors in the urban areas of Mwanza region was more than double the HIV seroprevalence in nonurban areas.

Sources for Tanzania


T0101 Tanzania Ministry of Health, 1991, National AIDS Control Programme, Surveillance Report No. 5, August, Epidemiology Unit, NACP.

T0102 Tanzania Ministry of Health, 1992, National AIDS Control Programme, Surveillance Report No. 7., December, Epidemiology Unit, NACP.


Togo

- Women attending an antenatal clinic in the rural area around Dapaong were screened for HIV infection. Researchers found a three-fold increase in the HIV infection level among pregnant women, from 1.1 percent in 1991 to 3.0 percent in 1993.

- According to the same study, HIV seroprevalence levels among pregnant women showed a peak in the age group 20-24 years old in 1992. In 1993, the highest seroprevalence level was found in the 30-34 year age group.

- HIV seroprevalence levels among blood donors in the same rural area around Dapaong fluctuated around 2 percent between 1991 and 1993.

Togo

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Growth Rate (%)</th>
<th>Life Expectancy</th>
<th>Percent Urban</th>
</tr>
</thead>
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<tr>
<td>Population (1,000s)</td>
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</tr>
<tr>
<td>Both Sexes</td>
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<tr>
<td>Male</td>
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<tr>
<td>Female</td>
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<td></td>
<td>Female</td>
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<tr>
<td>Crude Birth Rate</td>
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<td>Crude Death Rate</td>
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<tr>
<td>Total Fertility Rate</td>
<td>6.9</td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 2/23/94: 0.83
Cumulative AIDS cases as of 2/23/94: 3,472


Epidemiological Data

- In a rural area around Dapaong, the largest town in Northern Togo, sentinel surveillance reports HIV seroprevalence among STD patients falling from 9.7 percent in 1991 to 7.3 percent in 1993. The results are contradictory to the results among pregnant women from the same area shown in the following chart.

HIV Seroprevalence for STD Patients
Dapaong, Togo: 1991-1993

Sources for Togo

Uganda

- Available studies tend to show a large differential in HIV infection levels between urban and rural areas. Data from a study of adults in the Rakai District in Uganda demonstrate both the typical age pattern of infection and the urban/rural differentiation in infection levels.

- Sentinel surveillance in Kabarole district, Western Uganda, found HIV seroprevalence levels less than 10 percent among the general population (5 years and older) in 1993. Data from the semiurban site, Rwimi, document higher HIV levels among both males and females than in the rural site, Nyabani. Infection levels among females were higher than among males in both Rwimi and Nyabani.

- The above sentinel surveillance in Kabarole district also presents HIV seroprevalence levels by age for adults only. Data from this study follow the same urban/rural pattern as in the Rakai District, namely higher HIV prevalence levels in the semiurban area, Rwimi, than in the rural area, Nyabani. These data show HIV infection levels to be higher among women than men in all age groups except 40 years of age and over in both areas.

Uganda

Demographic Indicators

<table>
<thead>
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<th>19,573</th>
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<tr>
<td>Infant Mortality Rate (per 1,000)</td>
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<tr>
<td>Both Sexes</td>
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<td>Male</td>
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<tr>
<td>Female</td>
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<td>37</td>
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<tr>
<td>Crude Birth Rate (per 1,000)</td>
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<td>24</td>
</tr>
<tr>
<td>Total Fertility Rate</td>
<td>6.7</td>
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<td>13</td>
</tr>
<tr>
<td>Crude Death Rate (per 1,000)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Urban</td>
<td></td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 12/31/94 | 2.38  |
Cumulative AIDS cases as of 12/31/94           | 46,120 |


Epidemiological Data

- The AIDS epidemic in Uganda is probably as severe as anywhere in the world. Those with sexually transmitted diseases continue to be at high risk for infection. The combination of high-risk behavior and increased susceptibility contributed to their high levels of infection. One study in Kampala shows females visiting STD clinics had levels of HIV infection higher than the males.

Uganda

- In cities throughout Uganda, HIV infection levels among pregnant women increased over the 1989-92 time period. During 1992, Mbarara, capital of Western Region, had the highest HIV level among these sites, 30.2 percent.

- The trend in HIV infection among pregnant women in Mbale, capital of Eastern Region, a semirural area, is similar to those seen in cities. HIV infection levels increased slowly but steadily reaching 17 percent in 1992.

- In sentinel surveillance studies, HIV infection levels in blood donors vary among the different hospital sites. These sites reported an increase in HIV infection levels from 1986 to 1990. Nsambya is the exception, which reported a mixed trend.

Uganda

- HIV infection levels among adults in a rural sub-county of Masaka district, located in Southwest Uganda, hovered around 8 percent from 1990 to 1993.

- HIV infection levels among pregnant women were already high in the mid-1980s and have increased to about one-quarter. Data from Mulago hospital indicate HIV infection continued to increase up to 1990.

- HIV seroprevalence levels among pregnant women in Kabarole district follow the same patterns as for all adults with the HIV prevalence levels higher in urban areas than rural. Data from 1991 to 1994 show infection levels remaining relatively steady in all three areas.

Sources for Uganda


Uganda

- HIV infection levels among blood donors in and around Kampala seem to be slowly decreasing. Family members of those requiring blood have higher rates of infection than volunteer blood donors.

- In a national study, family donors were once again found to have higher HIV infection levels than volunteer donors. Also, female blood donors had higher levels of HIV infection than males regardless of age and type of donor.

Zaire

- Also, in Kinshasa, HIV infection levels in samples of pregnant women continued to hover around 7 percent.

- In Kananga, the capital city of the west Kasai Region, HIV infection levels reached 6 percent among pregnant women in 1990. Data for 1989 in Goma city found HIV levels to be 7.1 percent, in Likasi, Kalemie and Lubumbashi cities for 1991, around 3 percent, and in Kimpese city for 1990-91, 3.9 percent among pregnant women.

- In Kinshasa, HIV seropositive levels for blood donors underwent a substantial decline between 1986 and 1989. In 1986, the seroprevalence of donors was 9.0 percent, dropping to 3.6 percent in 1989, and continues to slowly decline. This may be due to donor screening programs and reduced donations from high risk individuals.

Zaire

Demographic Indicators

<table>
<thead>
<tr>
<th></th>
<th>Population (1,000s)</th>
<th>Growth Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant Mortality Rate</td>
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<tr>
<td>Both Sexes</td>
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<tr>
<td>Male</td>
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</tr>
<tr>
<td>Female</td>
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<td></td>
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<tr>
<td>Crude Birth Rate</td>
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<tr>
<td>Crude Death Rate</td>
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</tr>
<tr>
<td>Percent Urban</td>
<td>29</td>
<td></td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1994.

Cumulative AIDS rate (per 1,000) as of 4/26/94: 0.54
Cumulative AIDS cases as of 4/26/94: 22,747


Epidemiological Data

- In the capital city of Zaire, Kinshasa, HIV infection levels for prostitutes were reported to be high, 26.8 percent, as early as 1985 and continued to increase to 38 percent in 1989. In the early 1990's, HIV infection levels remained around 30 percent.

Sources for Zaire


Zaire

• Several studies among blood donors were carried out in various urban areas of Zaire. The range of HIV infection was 1.6 percent in Kamina to 10.3 percent in Basankusu.

• In the rural areas of Zaire, HIV infection levels among blood donors were in the same range as those for the urban areas. Studies in the rural areas reported HIV infection levels ranged from 1.1 percent to 9.0 percent.

In Lusaka, the capital city, the HIV infection level among STD clinic patients reached a high of 54 percent. Data from another study in the Northern area of Zambia showed prevalence levels for Solwezi, a semiurban area, at 53 percent, and rural areas ranging from 22 percent to 56 percent.

In Lusaka, the level of infection in pregnant women increased from 8 percent in 1985 to nearly 25 percent in 1990. Since 1990, the seroprevalence level has remained around 25 percent.

Sentinel surveillance in rural sites of Zambia show a variety of HIV infection levels among pregnant women. Data for 1993 show levels ranging between 9 and 18 percent.

Zambia

Demographic Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
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</tr>
</thead>
<tbody>
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<td>Male</td>
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<td>Female</td>
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<tr>
<td>Life Expectancy (Both Sexes)</td>
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<tr>
<td>Male</td>
<td>43</td>
</tr>
<tr>
<td>Female</td>
<td>43</td>
</tr>
<tr>
<td>Crude Birth Rate (per 1,000)</td>
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<td>Crude Death Rate (per 1,000)</td>
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<tr>
<td>Total Fertility Rate</td>
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</tr>
<tr>
<td>Percent Urban</td>
<td>43</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 10/20/93: 3.30
Cumulative AIDS cases as of 10/20/93: 29,734


Epidemiological Data

- Results from studies in Zambia show high levels of HIV infection among both male and female STD clinic attendees in all regions of the country. By province, no fewer than 33 percent and as many as 71 percent of STD clinic patients were found to be HIV seropositive in a 1991 study.

Sources for Zambia


Zambia

- A study conducted from 1990-1993 among male voluntary blood donors at the University Teaching Hospital Lusaka Blood Bank found males aged 30 to 39 to have the highest HIV rate. The overall level of HIV infection was 10.4 percent.

Zimbabwe

- A study carried out from March 1991 to March 1993 at Murewa District Hospital reported HIV seroprevalence levels of 46 percent among both male and female STD clinic patients. HIV prevalence peaks among females 20 to 29 years of age and males 40 to 55 years of age.

- Zimbabwe’s well-developed roads facilitate the spread of HIV infection to rural areas. A 1991 study of STD patients in Karoi District reported high levels of infection among males and females.

- A 1990 study conducted at Harare Maternity Hospital and two Municipal clinics reported that 18 percent of expectant mothers tested positive for the HIV virus. Another study conducted among the various provinces in 1990 found the highest levels of HIV seroprevalence, 20 percent, among pregnant women in Mashonaland West Province where a 1992-93 study found the infection level had risen to 25.9 percent.

Zimbabwe

Demographic Indicators

<table>
<thead>
<tr>
<th>Population (1,000s)</th>
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</thead>
<tbody>
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<td>Male</td>
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<td>Female</td>
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<td>Life Expectancy</td>
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</tr>
<tr>
<td>Both Sexes</td>
<td>41</td>
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<tr>
<td>Male</td>
<td>40</td>
</tr>
<tr>
<td>Female</td>
<td>43</td>
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<tr>
<td>Crude Birth Rate (per 1,000)</td>
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<tr>
<td>Crude Death Rate (per 1,000)</td>
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<td>Total Fertility Rate</td>
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<tr>
<td>Percent Urban</td>
<td>32</td>
</tr>
</tbody>
</table>

Note: Above indicators are for 1995.

Cumulative AIDS rate (per 1,000) as of 11/29/94 | 2.99
Cumulative AIDS cases as of 11/29/94          | 33,083


Epidemiological Data

- In a 1990 sentinel survey conducted among STD patients, the HIV level in Matebeleland North Province was 32.6 percent, and in Midlands Province, 24.5 percent. In Mashonaland West Province, levels of HIV infection increased from 45.8 percent in 1990 to 52.1 percent in 1992-93. In Harare, the capital city, the Herald (a local newspaper) reported that among STD patients, 28.6 percent of unskilled workers were HIV positive.

Sources for Zimbabwe


Zimbabwe

- During 1993, a study from Manicaland Province reported higher HIV infection levels among pregnant women tested in urban areas than in rural areas. Data from the urban area noted almost 50 percent of the sample of pregnant women positive for HIV, while prevalence in the rural areas was much lower, around 15 percent.

- Very few studies of HIV infection in the general population of Zimbabwe have been published. One study from the National Blood Transfusion Service reported steadily increasing HIV infection among blood donors from 1986 to 1989. After 1989, the HIV infection rate declined among blood donors to 2.2 percent for the period January-June 1994.

- Studies of blood donors in various urban centers were conducted in 1990, 1991, and 1994. All of the urban centers reported a slight decline in HIV infection levels from 1990 to 1994, which may reflect blood donor screening programs.