

Swaziland

EPIDEMIOLOGICAL FACT SHEETS ON HIV/AIDS AND SEXUALLY TRANSMITTED INFECTIONS







World Health Organization

HIV/AIDS estimates

In 2003 and during the first quarter of 2004, UNAIDS and WHO worked closely with national governments and research institutions to recalculate current estimates on people living with HIV/AIDS. These calculations are based on the previously published estimates for 1999 and 2001 and recent trends in HIV/AIDS surveillance in various populations. A methodology developed in collaboration with an international group of experts was used to calculate the new estimates on prevalence and incidence of HIV and AIDS deaths, as well as the number of children infected through mother-to-child transmission of HIV. Different approaches were used to estimate HIV prevalence in countries with low-level, concentrated or generalised epidemics. The current estimates do not claim to be an exact count of infections. Rather, they use a methodology that has thus far proved accurate in producing estimates that give a good indication of the magnitude of the epidemic in individual countries. However, these estimates are constantly being revised as countries improve their surveillance systems and collect more information.

Adults in this report are defined as women and men aged 15 to 49. This age range covers people in their most sexually active years. While the risk of HIV infection obviously continues beyond the age of 50, the vast majority of those who engage in substantial risk behaviours are likely to be infected by this age. The 15 to 49 range was used as the denominator in calculating adult HIV prevalence.

Estimated number of adults and children living with HIV/AIDS, end of 2003

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 2003:

Adults and children	220,000		
Low estimate	210,000		
High estimate	230,000		
Adults (15-49)	200,000	Adult rate (%)	38.8
Low estimate	190,000	Low estimate	37.2
High estimate	210,000	High estimate	40.4
Children (0-15)	16,000	-	
Low estimate	11,000		
High estimate	23,000		
Women (15-49)	110,000		
Low estimate	110,000		
High estimate	120,000		

,000

Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 2003:

Adults and Children	17,000
Low estimate	13,000
High estimate	23,000

Estimated number of orphans

Estimated number of children who have lost their mother or father or both parents to AIDS and who were alive and under age 17 at the end of 2003:

Current living orphans	65,000
Low estimate	43,000
High estimate	93,000

Assessment of the epidemiological situation

2004

HIV information among antenatal clinic attendees is available from Swaziland since 1992 from sentinel surveillance. Sentinel surveillance is conducted every two years. In 1992, 4 percent of antenatal clinic women tested in Hhohho were HIV positive as well as 4 percent of the women tested outside of Hhohho in Lubombo, Manzini, and Shiselweni. By 2002, 37 percent of antenatal women tested in Hhohho. Nationally, 38.6 percent of women attending antenatal care clinics were HIV positive in 2002.

HIV sentinel surveillance information is available for STD clinic patients since 1992. In Hhohho, HIV prevalence among male STD clinic patients tested increased from 10 percent in 1992 to 53 percent in 1998. Among female patients in Hhohho, HIV prevalence rose from 11 percent in 1992 to 47 percent in 1998. In 2000, among both male and female patients, 49 percent were HIV positive in Hhohho. Outside of Hhohho, HIV prevalence information is available from Lubombo, Manzini and Shiselweni. Median HIV prevalence among male STD clinic patients increased from 12 percent in 1992 to 45 percent in 1998. Among female STD clinic patients, median HIV prevalence in 1998 had reached 50 percent of women tested outside of Hhohho. In 2000, among both male and female patients outside of Hhohho, 51 percent were infected.

UNAIDS/WHO Working Group on Global **HIV/AIDS and STI Surveillance**

Global Surveillance of HIV/AIDS and sexually transmitted infections (STIs) is a joint effort of WHO and UNAIDS. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, initiated in November 1996, guides respective activities. The primary objective of the Working Group is to strengthen national, regional and global structures and networks for improved monitoring and surveillance of HIV/AIDS and STIs. For this purpose, the Working Group collaborates closely with national AIDS programmes and a number of national and international experts and institutions. The goal of this collaboration is to compile the best information available and to improve the quality of data needed for informed decision-making and planning at national, regional, and global levels. The Epidemiological Fact Sheets are one of the products of this close and fruitful collaboration across the alobe.

Within this framework, the Fact Sheets collate the most recent country-specific data on HIV/AIDS prevalence and incidence, together with information on behaviours (e.g. casual sex and condom use) which can spur or stem the transmission of HIV.

Not unexpectedly, information on all of the agreed upon indicators was not available for many countries in 2003. However, these updated Fact Sheets do contain a wealth of information which allows identification of strengths in currently existing programmes and comparisons between countries and regions. The Fact Sheets may also be instrumental in identifying potential partners when planning and implementing improved surveillance systems.

The fact sheets can be only as good as information made available to the UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance. Therefore, the Working Group would like to encourage all programme managers as well as national and international experts to communicate additional information to them whenever such information becomes available. The Working Group also welcomes any suggestions for additional indicators or information proven to be useful in national or international decision-making and planning.

Basic indicators

For consistency reasons the data used in the table below are taken from official UN publications.

DEMOGRAPHIC DATA	YEAR	ESTIMATE	SOURCE
Total population (thousands)	2004	1,083	UN population division database
Female population aged 15-24 (thousands)	2004	128	UN population division database
Population aged 15-49 (thousands)	2004	503	UN population division database
Annual population growth rate (%)	1992-2002	1.9	UN population division database
% of population in urban areas	2003	23.5	UN population division database
Average annual growth rate of urban population	2000-2005	1.4	UN population division database
Crude birth rate (births per 1,000 pop.)	2004	33.3	UN population division database
Crude death rate (deaths per 1,000 pop.)	2004	27.7	UN population division database
Maternal mortality rate (per 100,000 live births)	2000	370	WHO (WHR2004)/UNICEF
Life expectancy at birth (years)	2002	39	World Health Report 2004, WHO
Total fertility rate	2002	4.6	World Health Report 2004, WHO
Infant mortality rate (per 1,000 live births)	2000	86	World Health Report 2004, WHO
Under 5 mortality rate (per 1,000 live births)	2000	135	World Health Report 2004, WHO
SOCIO-ECONOMIC DATA	YEAR	ESTIMATE	SOURCE
Gross national income, ppp, per capita (Int.\$)	2002	4,530	World Bank
Gross domestic product, per capita % growth	2001-2002	-0.1	World Bank
Per capita total expenditure on health (Int.\$)	2001	167	World Health Report 2004, WHO
General government expenditure on health as % of total expenditure on health	2001	68.5	World Health Report 2004, WHO
Total adult illiteracy rate	2000	20.4	UNESCO
Adult male illiteracy rate	2000	19.2	UNESCO
Adult female illiteracy rate	2000	21.4	UNESCO
Gross primary school enrolment ratio, male	2000/2001	128	UNESCO
Gross primary school enrolment ratio, female	2000/2001	121	UNESCO
Gross secondary school enrolment ratio, male	2000/2001	not available	UNESCO
Gross secondary school enrolment ratio, female	2000/2001	not available	UNESCO

Contact address

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HIV prevalence in different populations

This section contains information about HIV prevalence in different populations. The data reported in the tables below are mainly based on the HIV database maintained by the United States Bureau of the Census where data from different sources, including national reports, scientific publications and international conferences are compiled. To provide a simple overview of the current situation and trends over time, summary data are given by population group, geographical area (Major Urban Areas versus Outside Major Urban Areas), and year of survey. Studies conducted in the same year are aggregated and the median prevalence rates (in percentages) are given for each of the categories. The maximum and minimum prevalence rates observed, as well as the total number of surveys/sentinel sites, are provided with the median, to give an overview of the diversity of HIV-prevalence results in a given population within the country. Data by sentinel site or specific study from which the medians were calculated are printed at the end of this fact sheet.

The differentiation between the two geographical areas Major Urban Areas and Outside Major Urban Areas is not based on strict criteria, such as the number of inhabitants. For most countries, Major Urban Areas were considered to be the capital city and - where applicable - other metropolitan areas with similar socio-economic patterns. The term Outside Major Urban Areas considers that most sentinel sites are not located in strictly rural areas, even if they are located in somewhat rural districts.

HIV sentinel surveillance*

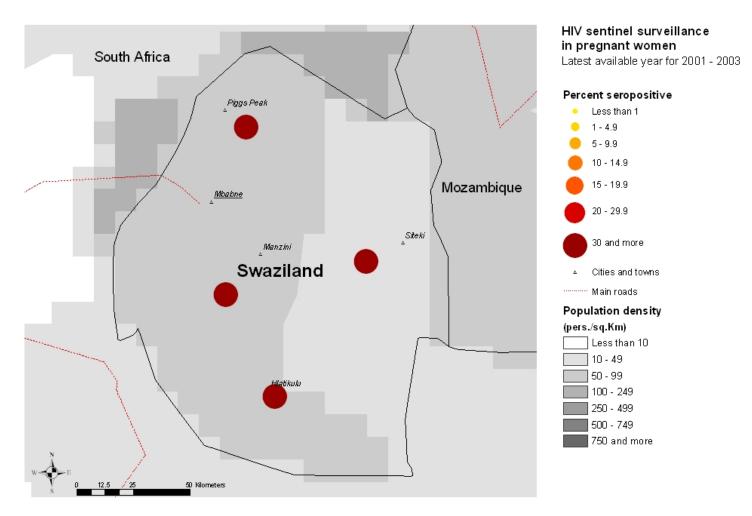
Group	Area		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Pregnant	Major urban	N-Sites						1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00	
women	areas	Minimum						4.30	21.90	15.52	19.07	26.31		30.30		32.30		36.60	
		Median						4.30	21.90	15.52	19.07	26.31		30.30		32.30		36.60	
		Maximum						4.30	21.90	15.52	19.07	26.31		30.30		32.30		36.60	
	Outside major urban areas	N-Sites						3.00		3.00		3.00		3.00		3.00		3.00	
	urban areas	Minimum						2.04		15.58		23.88		29.60		27.00		37.90	
		Median						4.09		16.74		26.53		31.50		34.50		38.50	
		Maximum						4.17		16.79		27.66		34.80		41.00		41.20	
Sex workers																			
Injecting drug users																			
STI patients	Major urban	N-Sites						2.00	1.00	2.00	1.00	2.00		2.00		1.00			
	areas	Minimum						10.05	26.70	20.56	28.00	35.20		47.40		48.90			
	Median						10.63	26.70	23.28	28.00	38.05		50.05		48.90				
		Maximum						11.21	26.70	26.00	28.00	40.90		52.70		48.90			
	Outside major	N-Sites						6.00		6.00		6.00		6.00		3.00			
	urban areas	Minimum						1.45		23.43		30.40		39.00		49.40			
		Median						10.97		27.36		37.05		46.95		51.30			
		Maximum						15.50		33.33		42.60		50.70		51.80			
Men having sex with men	x																		
Tuberculosis	Major urban	N-Sites						1.00		1.00				1.00		1.00			
patients	areas	Minimum						19.44		31.13				58.10		72.90			
		Median						19.44		31.13				58.10		72.90			
		Maximum						19.44		31.13				58.10		72.90			
	Outside major	N-Sites														3.00			
	urban areas	Minimum														78.90			
		Median														80.00			
		Maximum														80.20			

*Detailed data by site can be found in the Annex.

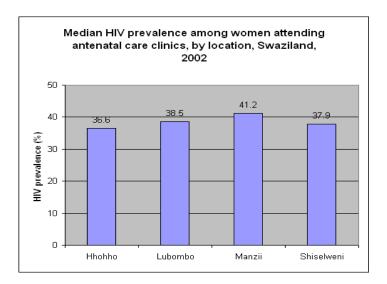
Maps & charts

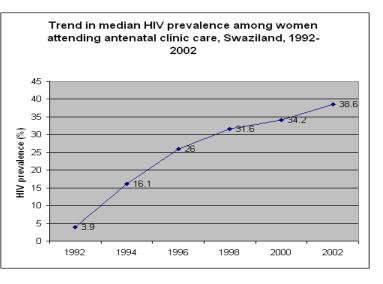
Mapping the geographical distribution of HIV prevalence among different population groups may assist in interpreting both the national coverage of the HIV surveillance system as well in explaining differences in levels of prevalence. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, in collaboration with the WHO Public Health Mapping Team, Communicable Diseases, is producing maps showing the location and HIV prevalence in relation to population density, major urban areas and communication routes. For generalized epidemics, these maps show the location of prevalence of antenatal surveillance sites.

Trends in antenatal sentinel surveillance for higher prevalence countries, or in prevalence among selected populations for countries with concentrated epidemics, are a new addition. These are presented for those countries where sufficient data exist.



Trends in HIV prevalence among antenatal clinic attendees





The boundaries and names shown and the designations used on the map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement. WHO 2004, all rights reserved.

Reported AIDS cases

Following WHO and UNAIDS recommendations, AIDS case reporting is carried out in most countries. Data from individual AIDS cases are aggregated at the national level and sent to WHO. However, case reports come from surveillance systems of varying quality. Reporting rates vary substantially from country to country and low reporting rates are common in developing countries due to weaknesses in the health care and epidemiological systems. In addition, countries use different AIDS case definitions. A main disadvantage of AIDS case reporting is that it only provides information on transmission patterns and levels of infection approximately 5-10 years in the past, limiting its usefulness for monitoring recent HIV infections.

Despite these caveats, AIDS case reporting remains an important advocacy tool and is useful in estimating the burden of HIV-related morbidity as well as for short-term planning of health care services. AIDS case reports also provide information on the demographic and geographic characteristics of the affected population and on the relative importance of the various exposure risks. In some situations, AIDS reports can be used to estimate earlier HIV infection patterns using back-calculation. AIDS case reports and AIDS deaths have been dramatically reduced in industrialized countries with the introduction of Anti-Retroviral Therapy (ART).

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
0	0	0	0	0	0	0	0	1	2	7	20	31	216	165	120	154	613	1466	733
1999	2000	2001	2002	2003		Total	l	JNK	Date	of last re	port								
1259						4787		0	1	1/22/2001									

Curable sexually transmitted infections (STIs)

The predominant mode of transmission of both HIV and other STIs is sexual intercourse. Measures for preventing sexual transmission of HIV and STIs are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STIs facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Thus, detection and treatment of individuals with STIs is an important part of an HIV control strategy. In summary, if the incidence/prevalence of STIs is high in a country, then there is the possibility of high rates of sexual transmission of HIV. Monitoring trends in STIs provides valuable insight into the likelihood of the importance of sexual transmission of HIV within a country, and is part of second generation surveillance. These trends also assist in assessing the impact of behavioural interventions, such as delaying sexual debut, reducing the number of sex partners and promoting condom use.

Clinical services offering STI care are an important access point for people at high risk for both STIs and HIV. Identifying people with STIs allows for not only the benefit of treating the STI, but for prevention education, HIV testing, identifying HIV-infected persons in need of care, and partner notification for STIs or HIV infection. Consequently, monitoring different components of STI prevention and control can also provide information on HIV prevention and control activities within a country.

STI syndromes

Reported cases	1996	1997	1998	1999	2000	2001	2002	2003	Incidence 2003
Comments:									
Source:									

Syphilis prevalence, women

Percent of blood samples taken from pregnat women aged 15-49 that test positive for syphilis - positive reaginic and treponemal testduring routine screening at selected antenatal clinics.

	Year	Area	Rate	Range					
	2002		4.2						
Comments:	ts: In 2004, the prevalence of Gonorrhoea and Trichomoniasis was 10.2% and 18.2% respectively.								

Source: MOHSW

Estimated prevalence of curable STIs among female sex workers

- Chlamydia									
	Year	Area	Rate	Range					
Comments:									
Source:									
- Gonorrho	bea								
	Year	Area	Rate	Range					

Comments:

Estimated prevalence of curable STIs among female sex workers (continued)

- Syphillis

	Year	Area	Rate	Range
Comments:				
Source:				
Trichomoni	asis			
	Year	Area	Rate	Range

Comments:

Health service and care indicators

HIV prevention strategies depend on the twin efforts of care and support for those living with HIV or AIDS, and targeted prevention for all people at risk or vulnerable to the infection. It is difficult to capture such a large range of activities with one or just a few indicators. However, a set of well-established health care indicators may help to identify general strengths and weaknesses of health systems. Specific indicators, such as access to testing and blood screening for HIV, help to measure the capacity of health services to respond to HIV/AIDS - related issues.

Access to health care

Indicators	Year	Estimate	Source
% of population with access to health services - total			
% of population with access to health services - urban			
% of population with access to health services - rural			
Contraceptive prevalence rate (%)	2002	38.6	Community Health Survey
Percentage of contraceptive users using condoms	2002	16.2	Community Health Survey
% of births attended by skilled health personnel	2000	55.4	WHO
% of 1-yr-old children fully immunized - DPT	2002	77	WHO/UNICEF
% of 1-yr-old children fully immunized - Measles	2001	72	WHO/UNICEF
% of ANC clinics where HIV testing is available			

Number of adults (15-49) with advanced HIV infection receiving ARV therapy as of June 2004

Ad	Adults on treatment										
Number:	3,200										
Source:	WHO										
Estimated number of adults (15-49) in need of treatment in 2003											
Adult	Adults needing treatment										
Number:	32,000										
Source:	WHO/UNAIDS										

Coverage of HIV testing and counselling

Number of public and NGO services providing testing and counselling services.

 Year	Area	N=				
 2004	National	20				

Comments: There has been a rapid scaling up of VCT services since 2002. Before end of 2006, there will be additional 10 VCT centres.

Source: VCT coordinator, Ministry of Health and Social Welfare.

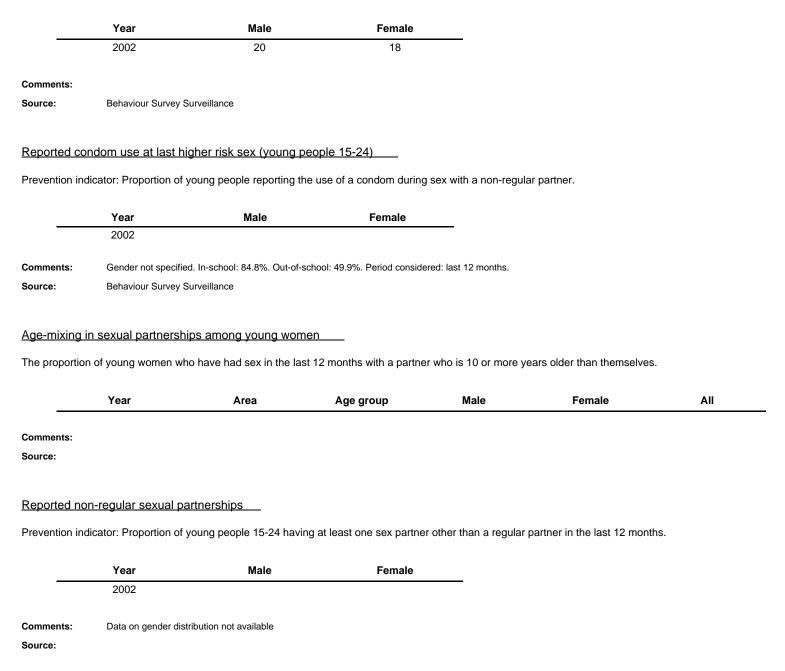
Knowledge and behaviour

In most countries the HIV epidemic is driven by behaviours (e.g.: multiple sexual partners, injecting drug use) that expose individuals to the risk of infection. Information on knowledge and on the level and intensity of risk behaviour related to HIV/AIDS is essential in identifying populations most at risk for HIV infection and in better understanding the dynamics of the epidemic. It is also critical information in assessing changes over time as a result of prevention efforts. One of the main goals of the 2nd generation HIV serveillance systems is the promotion of a standard set of indicators defined in the National Guide (Source: National AIDS Programmes, A Guide to Monitoring and Evaluation, UNAIDS/00.17) and regular behavioural surveys in order to monitor trends in behaviours and to target interventions.

The indicators on knowledge and misconceptions are an important prerequisite for prevention programmes to focus on increasing people's knowledge about sexual transmission, and, to overcome the misconceptions that act as a disincentive to behaviour change. Indicators on sexual behaviour and the promotion of safer sexual behaviour are at the core of AIDS programmes, particulary with young people who are not yet sexually active or are embarking on their sexual lives, and who are more amenable to behavioural change than adults. Finally, higher risk male-male sex reports on unprotected anal intercourse, the highest risk behaviour for HIV among men who have sex with men.

Knowledge of HIV prevention methods

Prevention indicator: Percentage of young people 15-24 who both correctly identify two ways of preventing the sexual transmission of HIV and who reject three misconceptions about HIV transmission.



Knowledge and behaviour (continued)

Ever used a condom

Percentage of people who ever used a condom.

|--|

Comments:

Source:

Adolescent pregnancy

Percentage of teenagers 15-19 who are mothers or pregnant with their first child.

Year Percentage

Comments:

Source:

Age at first sexual experience

Proportion of 15-19 year olds who have had sex before age 15.

Year Male Female	Year	Male	Female
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Comments:

Prevention indicators

Male and female condoms are the only technology available that can prevent sexual transmission of HIV and other STIs. Persons exposing themselves to the risk of sexual transmission of HIV should have consistent access to high quality condoms. AIDS Programs implement activities to increase both availability of and access to condoms. Thes activities should be monitored and have resources directed to problem aresas. The indicator below highlights the availability of condoms. However, even if condoms are widely available, this does not mean that individuals can or do access them.

Condom availability nationwide

Total number of condoms available for distribution nationwide during the preceding 12 months, divided by the total population aged 15-49.

 Year
 N
 Rate

 2003
 5,100,000
 11.9

Comments:

Source:

Prevention of mother-to-child transmission (MTCT) nationwide

Percentage of women who were counselled during antenatal care for their most recent pregnancy, accepted an offer of testing and received their test results, of all women who were pregnant at any time in the preceding two years.

 Year
 N
 Rate

 2003
 1,011
 2.5

Comments: Estimated 40,000 annual deliveries

Source:

Blood safety programs aim to ensure that the majority of blood units are screened for HIV and other infectious agents. This indicator gives an idea of the overall percentage of blood units that have been screened to high enough standards that they can confidently be declared free of HIV.

Screening of blood transfusions nationwide

Percentage of blood units transfused in the last 12 months that have been adequately screened for HIV according to national or WHO guidelines.

Year N Rate

Comments:

Sources

Data presented in this Epidemiological Fact Sheet come from several sources, including global, regional and country reports, published documents and articles, posters and presentations at international conferences, and estimates produced by UNAIDS, WHO and other United Nations agencies. This section contains a list of the more relevant sources used for the preparation of the Fact Sheet. Where available, it also lists selected national Web sites where additional information on HIV/AIDS and STI are presented and regularly updated. However, UNAIDS and WHO do not warrant that the information in these sites is complete and correct and shall not be liable whatsoever for any damages incurred as a result of their use.

Dlamini-Kapenda, W. 1993 First HIV Sentinel Surveillance in Swaziland, 1992 February, unpublished report.

Nxumalo, R. 1997 HIV Sentinel Surveillance in Swaziland Presented at the UNAIDS Regional Workshop on "Evidence of Behavioural Change in the Context of HIV Decline in Uganda," 10 - 13, February, Nairobi, Kenya.

Swaziland Ministry of Health 1995 Third HIV Sentinel Surveillance Report - 1994 Swaziland National AIDS/STDs Program, Ministry of Health, Mbabane, Swaziland, August, unpublished report.

Swaziland Ministry of Health 1996 Fifth HIV Sentinel Surveillance -- Final Report Ministry of Health, Swaziland National AIDS/STDs Programme, unpublished report.

Swaziland Ministry of Health 1998 Sixth HIV Sentinel Surveillance Report: 1998 Ministry of Health and Social Welfare, Swaziland National AIDS/STDs Programme, Mbabane, September, unpublished report.

Swaziland Ministry of Health 2000 7th HIV Sentinel Serosurveillance Report: 2000 Ministry of Health and Social Welfare, Swaziland National AIDS/STDs Programme, Mbabane, October, unpublished report.

Swaziland Ministry of Health 2002 8th HIV Sentinel Serosurveillance Report Year 2002 Ministry of Health and Social Welfare, Swaziland National AIDS/STDs Programme, Mbabane, Swaziland.

Websites: www.aids.africa.com

Annex: HIV surveillance by site

Group	Area		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Pregnant women	Major urban areas	Hhohho region						4.30		15.52		26.31		30.30		32.30		36.60	
		National							21.90		19.07								
	Outside major urban areas	Lubombo region						2.04		16.74		26.53		31.50		34.50		38.50	
		Manzini region						4.09		15.58		27.66		34.80		41.00		41.20	
		Shiselweni region						4.17		16.79		23.88		29.60		27.00		37.90	
Sex workers																			
Injecting drug users																			
STI patients	Major urban areas	Hhohho region						10.63		23.28		38.05		50.05		48.90			
		National							26.70		28.00								
	Outside major urban areas	Lubombo region						6.76		30.80		41.10		49.50		49.40			
		Manzini region						14.24		28.51		37.60		41.25		51.30			
		Shiselweni region						8.04		24.73		30.90		47.70		51.80			
Men having sex with men																			
Tuberculosis patients	Major urban areas	Hhohho region														72.90			
		National						19.44		31.13				58.10					
	Outside major urban areas	Lubombo region														78.90			
		Manzini region														80.20			
		Shiselweni region														80.00			