

2004
Update



Nigeria

EPIDEMIOLOGICAL FACT SHEETS
ON HIV/AIDS AND SEXUALLY TRANSMITTED INFECTIONS



Joint United Nations Programme on HIV/AIDS

UNAIDS

UNHCR • UNICEF • WFP • UNDP • UNFPA
UNODC • ILO • UNESCO • WHO • WORLD BANK



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	3,600,000		
Low estimate	2,400,000		
High estimate	5,400,000		
Adults (15-49)	3,300,000	Adult rate (%)	5.4
Low estimate	2,200,000	Low estimate	3.6
High estimate	4,900,000	High estimate	8.0
Children (0-15)	290,000		
Low estimate	170,000		
High estimate	500,000		
Women (15-49)	1,900,000		
Low estimate	1,200,000		
High estimate	2,700,000		

Estimated number of deaths due to AIDS

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

Deaths in 2003	310,000
Low estimate	200,000
High estimate	490,000

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	1,800,000
Low estimate	1,200,000
High estimate	2,600,000

Assessment of the epidemiological situation 2004

HIV seroprevalence information among antenatal clinic (ANC) attendees is available since the mid-1980s from Nigeria. However, reporting from more than one or two sites per year did not begin until 1992. By 1993-1994 ten major urban sites reported HIV prevalence among ANC women. By 1988-1990, 1 percent of ANC women tested in Lagos were HIV positive. Among sites in major urban areas, median HIV prevalence reached 4 percent by 1993-1994 and stayed at that level in 1999 and 2001. Prevalence among 16 sites in 2001 ranged from 1 percent in Lagos (Ikeja) to 14 percent in Abuja (Nyanya).

By 1991-1992, 20 sites from ten states outside of the major urban areas reported HIV prevalence from sentinel surveillance of antenatal women. The number of sites increased to 69 sites in 2001 and then to 125 in 2003. Median HIV prevalence among ANC women tested at these sites increased from less than 1 percent in 1991-1992 to 4.6 percent in 2003. Prevalence among 125 sites in 2003 ranged from no evidence of infection in 10 sites to over 10 percent in 12 sites with 17 percent HIV prevalence in antenatal women tested in Badagry, Lagos.

HIV prevalence among 15-24 year old women was 5.7 in 1999, 5.9 in 2001 and 5.4 in 2003.

Testing of sex workers in Lagos began in 1988-1989. Two percent of sex workers tested at that time were HIV positive and increased to 15 percent in 1993. Median HIV prevalence among 7 sites in 1994 and 3 sites in 1995 was 29 percent and 33 percent, respectively. In 1996, 31 percent of sex workers tested in Lagos were HIV positive.

In 1986-1987, less than 1 percent of sex workers tested in Maiduguri in Borno State were HIV positive; by 1989-1990, 4 percent of sex workers tested HIV positive. In 1992, 14 sites outside of the major urban centers were reporting information on HIV prevalence among sex workers. At that time, a median of 11.5 percent of sex workers tested were HIV positive. The prevalence among these sites ranged from no evidence of HIV infection to 52 percent of sex workers tested. By 1995, median prevalence among 17 sites was 24 percent. Prevalence ranged from no evidence of infection to 68 percent of sex workers tested. In 1996, median HIV prevalence was 55 percent for 2 sites.

In major urban areas from 1992 to 1995, median HIV prevalence among STD clinic patients tested ranged from 1 percent to 6 percent. Median HIV prevalence from 22 sites outside of the major urban areas was 7 percent in 1993-1994. From 20 sites in 1995, median HIV prevalence was 12.5 percent among STD clinic patients tested. HIV prevalence ranged from 1 percent to 70 percent of STD clinic patients tested in 1995.

In 2000, 11 percent of soldiers tested in an unspecified area were HIV positive. In 1993-1994, 4 percent of long distance truck drivers tested in Anambra State were HIV positive.

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 globe.

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	127,117	UN population division database
Female population aged 15-24 (thousands)	2004	12,810	UN population division database
Population aged 15-49 (thousands)	2004	58,559	UN population division database
Annual population growth rate (%)	1992-2002	2.8	UN population division database
% of population in urban areas	2003	46.2	UN population division database
Average annual growth rate of urban population	2000-2005	4.4	UN population division database
Crude birth rate (births per 1,000 pop.)	2004	38.3	UN population division database
Crude death rate (deaths per 1,000 pop.)	2004	13.7	UN population division database
Maternal mortality rate (per 100,000 live births)	2000	800	WHO (WHR2004)/UNICEF
Life expectancy at birth (years)	2002	48.8	World Health Report 2004, WHO
Total fertility rate	2002	5.5	World Health Report 2004, WHO
Infant mortality rate (per 1,000 live births)	2000	103	World Health Report 2004, WHO
Under 5 mortality rate (per 1,000 live births)	2000	183	World Health Report 2004, WHO

SOCIO-ECONOMIC DATA	YEAR	ESTIMATE	SOURCE
Gross national income, ppp, per capita (Int.\$)	2002	780	World Bank
Gross domestic product, per capita % growth	2001-2002	-3.1	World Bank
Per capita total expenditure on health (Int.\$)	2001	31	World Health Report 2004, WHO
General government expenditure on health as % of total expenditure on health	2001	23.2	World Health Report 2004, WHO
Total adult illiteracy rate	2000	36	UNESCO
Adult male illiteracy rate	2000	27.8	UNESCO
Adult female illiteracy rate	2000	43.9	UNESCO
Gross primary school enrolment ratio, male	2000/2001	not available	UNESCO
Gross primary school enrolment ratio, female	2000/2001	not available	UNESCO
Gross secondary school enrolment ratio, male	2000/2001	not available	UNESCO
Gross secondary school enrolment ratio, female	2000/2001	not available	UNESCO

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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*

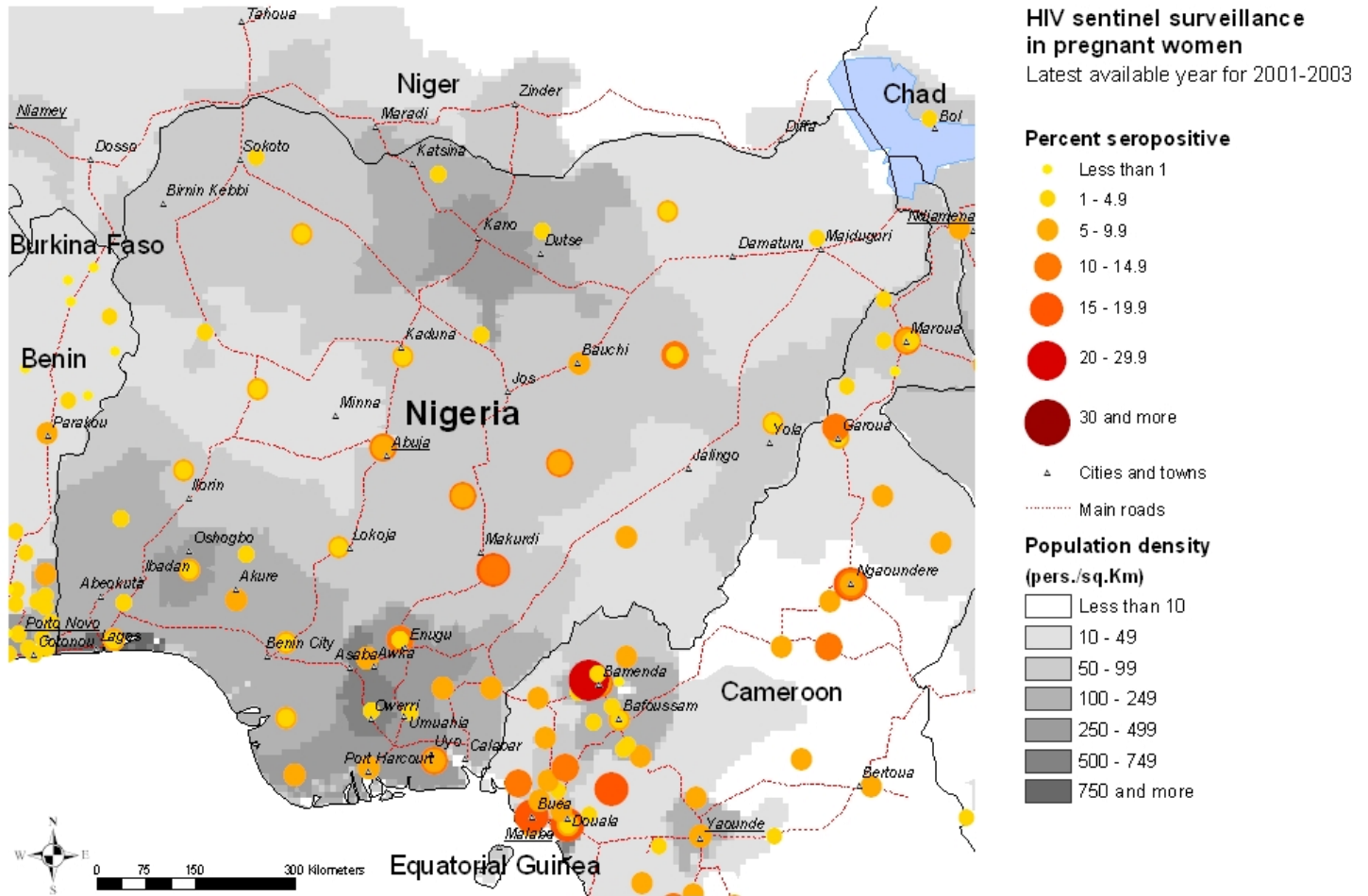
Group	Area		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Pregnant women	Major urban areas	N-Sites			2.00		2.00	8.00		10.00	5.00				10.00		16.00			
		Minimum			0		0.80	0		0.21	0				2.67		1.33			
		Median			0.50		3.15	0.66		3.98	1.00				4.50		4.17			
		Maximum			1.00		5.50	3.41		10.09	1.61				8.00		14.33			
	Outside major urban areas	N-Sites	1.00	1.00	1.00	2.00	1.00	21.00	1.00	33.00	52.00					63.00		70.00		
		Minimum	0	1.69	0	0	1.80	0	0.87	0	0					0.54		1.08		
		Median	0	1.69	0	0.08	1.80	0.50	0.87	2.90	2.42					4.33		5.22		
		Maximum	0	1.69	0	0.16	1.80	5.77	0.87	13.22	76.67					21.00		15.00		
Sex workers	Major urban areas	N-Sites			1.00			1.00	1.00	6.00	1.00	1.00								
		Minimum			1.71				9.94	15.30	9.89	81.73	30.50							
		Median			1.71				9.94	15.30	22.35	81.73	30.50							
		Maximum			1.71				9.94	15.30	46.00	81.73	30.50							
	Outside major urban areas	N-Sites	2.00	2.00	1.00	1.00			13.00		16.00	14.00	2.00							
		Minimum	0.21	0.49	0	4.26			0		0	6.78	48.80							
		Median	0.37	1.23	0	4.26			12.00		21.34	20.50	54.70							
		Maximum	0.52	1.97	0	4.26			51.79		57.89	67.74	60.60							
Injecting drug users	Major urban areas	N-Sites						3.00	1.00	6.00	2.00						2.00			
		Minimum							0	6.15	2.00	1.12					7.20			
		Median							0.67	6.15	5.00	2.07					8.35			
		Maximum							14.93	6.15	8.91	3.03					9.50			
	Outside major urban areas	N-Sites	1.00	1.00		1.00			11.00		21.00	20.00						8.00		
		Minimum	0.49	1.28		1.68			0		0	1.14						5.60		
		Median	0.49	1.28		1.68			1.74		7.00	12.43						13.65		
		Maximum	0.49	1.28		1.68			22.42		31.30	69.74						23.00		
Men having sex with men	Major urban areas	N-Sites	1.00		1.00	1.00		6.00		5.00	3.00						3.00			
		Minimum	2.60		2.00	0.90		0		0	0						4.20			
		Median	2.60		2.00	0.90		2.30		5.00	3.75						12.40			
		Maximum	2.60		2.00	0.90		14.29		20.00	7.37						20.80			
	Outside major urban areas	N-Sites							9.00		18.00	23.00	2.00					9.00		
		Minimum							0		1.00	0	12.99					9.30		
		Median							1.08		3.52	9.09	14.74					23.10		
		Maximum							5.45		25.00	39.24	16.50					35.10		

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

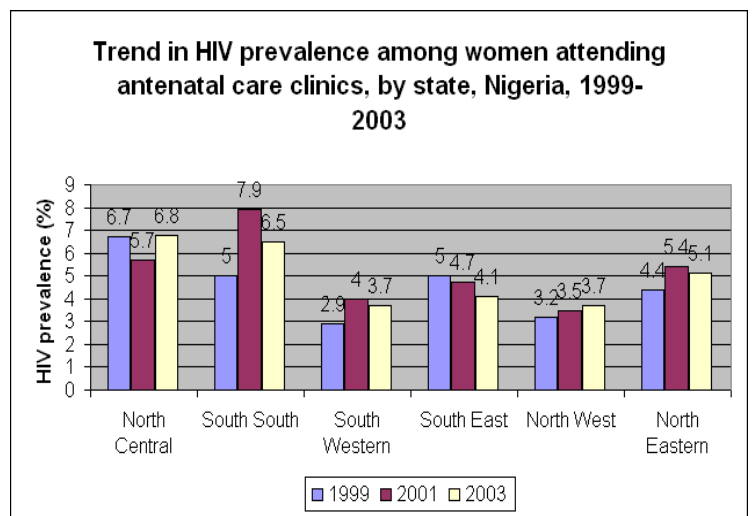
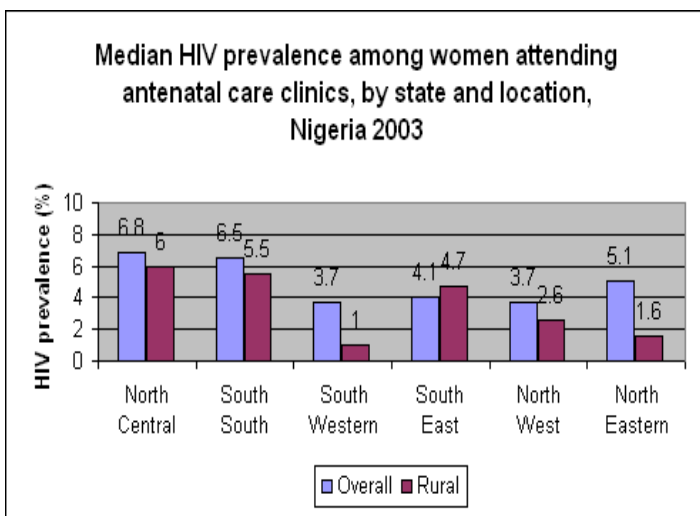
Maps & charts

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



Median prevalence and ranges are shown in areas with more than one sentinel site.

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
							2	2	33	58	163	341	484	719	1114	2829	2980	3815	18490
1999	2000	2001	2002	2003	Total	UNK	Date of last report												
16188	9715	3661			60564		11/22/2001												

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
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Comments:

Source:

Syphilis prevalence, women

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

Year	Area	Rate	Range
1997-1999	Urban/Rural	4.35	1.6-5.5
2000-2001	Urban/Rural	1.87	0-25.7

Comments:

Source: National AIDS/STD Control Programme. 1999 HIV/Syphilis Sentinel Sero-Prevalence Survey in Nigeria. Technical Report.

Estimated prevalence of curable STIs among female sex workers

- Chlamydia

Year	Area	Rate	Range
2002-2003	Urban	21.9	

Comments:

Source: Bakare RA. Prevalence of *Trichomonas Vaginalis* amongst Commercial Sex Workers (CSWs) in Ibadan, Nigeria. African Journal of Clinical and Experimental Microbiology 2002; 3 (2): 72-77.

- Gonorrhoea

Year	Area	Rate	Range

Comments:

Source:

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

Year	Area	Rate	Range
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Comments:

Source:

- Trichomoniasis

Year	Area	Rate	Range
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Comments:

Source:

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 (%)	1999	7.4	UNICEF/UNPOP
Percentage of contraceptive users using condoms			
% of births attended by skilled health personnel	2000	41.6	WHO
% of 1-yr-old children fully immunized - DPT	2002	26	WHO/UNICEF
% of 1-yr-old children fully immunized - Measles	2001	40	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

Adults on treatment

Number: 17,000

Source: WHO

Estimated number of adults (15-49) in need of treatment in 2003

Adults needing treatment

Number: 520,000

Source: WHO/UNAIDS

Coverage of HIV testing and counselling

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

Year	Area	N=
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Comments:

Source:

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 surveillance 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, particularly 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.

Year	Male	Female

Comments:

Source:

Reported condom use at last higher risk sex (young people 15-24)

Prevention indicator: Proportion of young people reporting the use of a condom during sex with a non-regular partner.

Year	Male	Female

Comments: For this indicator only data will be shown if they were collected after 1998.

Source:

Age-mixing in sexual partnerships among young women

The proportion of young women who have had sex in the last 12 months with a partner who is 10 or more years older than themselves.

Year	Area	Age group	Male	Female	All

Comments:

Source:

Reported non-regular sexual partnerships

Prevention indicator: Proportion of young people 15-24 having at least one sex partner other than a regular partner in the last 12 months.

Year	Male	Female

Comments:

Source:

Knowledge and behaviour (continued)Ever used a condom

Percentage of people who ever used a condom.

Year	Area	Age group	Male	Female	All
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Comments:

Source:

Adolescent pregnancy

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

Year	Percentage
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Comments:

Source:

Age at first sexual experience

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

Year	Male	Female
1999	8	16

Comments:

Source: DHS

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. These activities should be monitored and have resources directed to problem areas. 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
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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
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Comments:

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
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Comments:

Source:

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.

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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	Badagry, Lagos state					3.41		5.37							5.58				
		Epe, Lagos state					0		4.20					6.36		6.86				
		Garki, Abuja												8.00		11.00				
		Gwagwalada, Abuja												6.33		5.33				
		Ibadan			0															
		Ibadan, Oyo state						0.16		0.21	0.15				2.67		3.34			
		Ikeja, Lagos state						2.34		7.54					7.00		1.33			
		Ikorodu, Lagos state								6.75										
		Ilesa, Osun state								1.72					4.67		5.67			
		Ilorin, Kwara state								3.75	1.00				3.07		3.67			
		Kano AKTH, Kano state																3.33		
		Kano MMSH, Kano state																3.67		
		Kano, Kano state							1.95		0.75				3.67					
		Lagos Island, Lagos state							1.16		10.09							2.00		
		LUTH, Lagos			1.00		0.80													
		Nyanya, Abuja																	14.33	
		Ogbomosh, Oyo state							0			0							4.68	
		Oshogbo, Osun state							0		2.13	1.61				2.67		3.00		
		Saki, Oyo state										1.25				4.33		4.67		
		Surulere, Lagos state																	3.11	
	University College Hospital, Ibadan						5.50													
	Outside major urban areas	Aba, Abia state													3.86		4.01			
		Abakaliki, Ebonyi state						0.66		3.87	13.00				11.11		6.67			
		Abeokuta, Ogun state									0				1.00		2.88			
		Abudu, Edo state									6.25									
		Achi, Enugu state								5.45	8.45				4.27		13.64			
		Ado Ekiti, Ekiti state													1.67		2.33			
		Afikpo, Ebonyi state																5.67		
		Agbor, Delta state							0		8.75	5.39				5.00		9.33		
		Agidi, Anambra state									2.50									
		Akamkpa, Cross River state							0											
		Akure, Ondo state														2.73		6.33		
		Akwanga, Plateau state									6.30	11.68								
		Akwkwu, Delta state										0								
		Ankpa, Kogi state														7.85		6.67		7.67
		Argungu, Kebbi state															3.33		4.67	
		Auchi, Edo state							0			5.73				8.20				
		Awka, Anambra state									1.00	2.15				8.39		6.69		
		Azare, Bauchi state														0.67		6.90		
		Bairnin-Kudu, Jigawa state										0.99								
		Bali, Taraba state										2.14								
		Barikin-Ladi, Plateau state									13.22	14.36								
		Bauchi, Bauchi state														5.33		6.67		
		Benin City				0														
		Benin City, Edo state							0		1.75	0				4.00		4.33		
		Birnin Kebbi, Kebbi state														4.00		3.33		
		Biu, Borno state									4.80					4.67		3.50		
Bonny, Rivers state											0						8.19			
Bori, Rivers state														1.03		7.90				
Brass, Bayelsa state														5.34						

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
Pregnant women	Outside major urban areas	Calabar, Cross River state					0		4.74	1.03				6.33		8.33				
		Damaturu, Yobe state													2.55		5.00			
		Danbata, Kano state								0										
		Dogon Daji, Sokoto state																2.67		
		Dutse, Jigawa state													2.01		2.33			
		Ekpoma, Edo state																7.00		
		Ekwulobia, Anambra state									4.00	4.50				3.67		6.80		
		Enugu, Enugu state							0.50			9.66				5.00				
		Essien-Udim, Akwa Ibom state														13.33		8.33		
		Funtua, Katsina state														1.67		3.33		
		Gboko, Benue state							0.84		4.99									
		Geidam, Yobe state														0.54		1.08		
		Giwa, Kaduna state										15.22								
		Gombe, Gombe state														3.34		4.00		
		Gumel, Jigawa state										1.43								
		Gusau, Zamfara state														1.67		5.00		
		Gwarzu, Kano state							2.50		0									
		Hadejia, Jigawa state							5.77			5.00				1.33		1.33		
		Idah, Kogi state										0								
		Ife-Ejigbo or Ife, Osun state							0		0.25	0								
		Ihugh, Benue state									3.50								15.00	
		Ijebu-Ode, Ogun state										0.22				4.03		4.00		
		Ikole Ekiti, Ekiti state														3.03		4.00		
		Ikom, Cross River state							0		5.00					5.33		7.67		
		Ilaro, Ogun state										0								
		Ilella, Sokoto state									1.76									
		Isiokpo, Rivers state										0								
		Jalingo, Taraba state										1.26				4.00		6.69		
		Jos, Plateau state									4.99	4.50				7.79		11.33		
		Kaduna, Kaduna state							0.42		4.29					8.05		4.00		
		Kafanchan, Kaduna state							2.25		4.98	76.67				15.05		9.33		
		Kaltungo, Gombe state														6.00		12.33		
		Katsina, Katsina state														3.01		3.67		
		Keffi, Plateau state										11.97								
		Lafia, Nasarawa state														13.67		10.67		
		Lokoja, Kogi state										1.44				3.67		3.67		
Maiduguri		0			0.16															
Maiduguri, Borno state									8.00	0.25				4.33		4.33				
Makurdi, Benue state							0.40			2.25				12.67		14.38				
Minna, Niger state														9.00		5.67				
Mubi, Adamawa state														4.48		3.33				
N/Eggon, Nasarawa state														7.50		5.26				
Nchia, Rivers state										1.55										
Ngala, Borno state										0										
Nsukka, Enugu state							4.21			5.71										
Oblaruku, Delta state										0.92										
Offa, Kwara state									2.50	2.76				3.33		5.19				
Ogidi, Anambra state										4.00										
Ogoja, Cross River state									2.50	3.41										
Okene, Kogi state										0										

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
Pregnant women	Outside major urban areas	Omu-Aran, Kwara state							1.01	0										
		Ondo, Ondo state												2.99		7.00				
		Onitsha, Anambra state								2.00	7.41						6.02			
		Onueke, Ebonyi state													7.50					
		Orlu, Imo state													10.61		4.67			
		Oturkpo, Benue state							3.67		5.51				21.00		11.00			
		Owerri, Imo state													5.33		4.00			
		Parklane, Enugu state									0							4.67		
		Port Harcourt, Rivers state										1.46			4.67		7.05			
		Rano, Kano state							1.21		1.00				5.00		4.33			
		Sagamu, Ogun state										0								
		Sagbama, Bayelsa state																6.73		
		Saminaka, Kaduna state							0			27.61								
		Shendam, Plateau state													4.68		5.67			
		Sokoto, Sokoto state									1.49				2.67		3.00			
		Talata-Marafa, Zamfara state													3.69		2.00			
		Tudun-Wada Kaduna, Kaduna state										45.79								
		Uba, Borno state										2.60								
		Umuahia, Abia state													2.33		2.68			
		University of Maiduguri Teaching Ho			1.69	0		1.80	2.30	0.87										
		Unth, Enugu state									2.90							2.02		
		Uyo, Akwa Ibom state													11.67		13.00			
		Warri, Delta state							1.57		1.50	0.75			3.34		2.33			
		Wukari, Taraba state										8.92								
		Wushishi, Niger state													4.33		3.33			
		Yenogoa, Bayelsa state													3.37		7.58			
		Yola, Adamawa state									1.26	5.25			5.48		5.67			
		Zaria, Kaduna state																3.33		
		Zing, Taraba state										9.87			7.00		5.67			
		Sex workers	Major urban areas	Badagry, Lagos state							9.89									
Ikeja, Lagos state									46.00											
Ilesa, Osun state									39.33											
Ilorin, Kwara state										15.00	81.73									
Kano, Kano state								9.94		10.89										
Lagos					1.71				15.30											
Lagos Island, Lagos state										29.70										
Lagos state													30.50							
Abakaliki, Ebonyi state								12.00		37.14										
Agbor, Delta state								0		17.00										
Auchi, Edo state							2.17													
Awka, Anambra state									4.04	17.00										
Bairnin-Kudu, Jigawa state											7.07									
Barikin-Ladi, Plateau state									12.00	56.38										
Benin City, Edo state							1.30													
Biu, Borno state											12.17									
Borno state	0.52																			
Borno/Cross River state			0.49																	
Calabar				0																
Calabar, Cross River state								19.23												
Danbata, Kano state										0										
Enugu, Enugu state								27.27												
Gboko, Benue s							30.08		49.00											

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Sex workers	Outside major urban areas	Gumel, Jigawa state								6.78									
		Gwarzu, Kano state					10.78		0										
		Hadejia, Jigawa state						44.12			29.41								
		Ikom										48.80							
		Jalingo, Taraba state									60.87								
		Jos, Plateau state								37.96	67.74								
		Keffi, Plateau state									45.00								
		Maiduguri	0.21	1.97		4.26							60.60						
		Maiduguri, Borno state									25.68								
		Makurdi, Benue state							31.00		43.68								
		Mubi, Adamawa state									13.04								
		Ngala, Borno state										6.80							
		Onitsha, Anambra state									7.00	24.00							
		Oturkpo, Benue state							51.79										
		Port Harcourt, Rivers state										14.85							
		Rano, Kano state							11.00		14.00								
		Unth, Enugu state									57.89								
		Warri, Delta state							2.50		27.08	28.00							
		Yola, Adamawa state									28.28	17.00							
Injecting drug users																			
STI patients	Major urban areas	Ibadan, Oyo state					0.67												
		Ife-Ejigbo or Ife, Osun state							2.00	1.12									
		Ikeja, Lagos state								5.00									
		Ilorin, Kwara state								8.91									
		Kano state														7.20			
		Kano, Kano state						14.93		5.00									
		Lagos							6.15										
		Lagos Island, Lagos state								8.00									
		Oshogbo, Osun state						0		2.30	3.03								
		Oyo state														9.50			
		Outside major urban areas	Abakaliki, Ebonyi state					4.11			9.21								
			Abia state														8.00		
			Agbor, Delta state					0.52			10.00								
			Akwa Ibom state														21.20		
			Akwanga, Plateau state								16.50	8.00							
			Auchi, Edo state						0			3.00							
	Awka, Anambra state									5.00	17.82								
	Bairmin-Kudu, Jigawa state										11.00								
	Barikin-Ladi, Plateau state									4.10	9.00								
	Bauchi state															12.10			
	Benin City, Edo state							0											
	Benue state															23.00			
	Bonny, Rivers state											11.86							
	Borno state															17.50			
	Calabar, Cross River state										24.00								
	Ekwulobia, Anambra state									3.00	13.86								
	Enugu state														10.90				
	Enugu, Enugu state							6.49											
	Gboko, Benue state							0		9.47									
	Hadejia, Jigawa state							22.42											
	Ihugh, Benue state									11.00									
	Ikom, Cross River state									9.00									
Jalingo, Taraba state										6.12									

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
STI patients	Outside major urban areas	Jos, Plateau state							31.30										
		Kaduna state														15.20			
		Kaduna, Kaduna state						1.74											
		Kafanchan, Kaduna state								0.68									
		Keffi, Plateau state									10.00								
		Lokoja, Kogi state									16.98								
		Maiduguri	0.49	1.28		1.68													
		Maiduguri, Borno state								4.35									
		Makurdi, Benue state								30.00	17.00								
		Mubi, Adamawa state								8.00									
		Ngala, Borno state									5.34								
		Nsukka, Enugu state									32.14								
		Ogidi, Anambra state								4.00	13.00								
		Onitsha, Anambra state								7.00	25.00								
		Oturkpo, Benue state							6.85										
		Port Harcourt, Rivers state										1.14							
		Rano, Kano state							10.34		3.00								
		Rivers state																5.60	
		Saminaka, Kaduna state									28.70								
		Tudun-Wada Kaduna, Kaduna state									69.74								
		Warri, Delta state							0.58		5.83	14.00							
		Yola, Adamawa state									4.95								
		Zing, Taraba state										11.49							
Men having sex with men																			
Tuberculosis patients	Outside major urban areas	Benue state															35.10		
		Biu, Borno state									2.53								
		Bonny, Rivers state									0								
		Borno state																27.10	
		Calabar, Cross River state						1.33		9.00									
		Ekwulobia, Anambra state								1.00	15.48								
		Enugu state																14.40	
		Enugu, Enugu state						1.08			23.76								
		Gboko, Benue state									1.39								
		Abakaliki, Ebonyi state						1.08		11.84									
		Abeokuta, Ogun state									3.33								
		Abia state																9.30	
		Abudu, Edo state										4.00							
		Agbor, Delta state									2.00								
		Akwa Ibom state																14.00	
		Akwanga, Plateau state									2.86	25.00							
		Awka, Anambra state									3.00								
		Bairmin-Kudu, Jigawa state										9.09							
		Bauchi state																	23.10
		Ife-Ejigbo or Ife, Osun state							0		1.10	8.00							
		Ijebu-Ode, Ogun state										3.70							
		Ikrom, Cross River state									23.00								
		Ilaro, Ogun state										0							
Jos, Plateau state									25.00	39.24									
Kaduna state																	31.30		
Kaduna, Kaduna state							0												
Kafanchan, Kaduna state							1.60												
Keffi, Plateau state										30.00									
Maiduguri											16.50								

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
Tuberculosis patients	Outside major urban areas	Maiduguri, Borno state							20.00	13.21										
		Makurdi, Benue state						5.45		5.95	24.00									
		Nchia, Rivers state									3.03									
		Obafemi Awolowo University Teaching										12.99								
		Ogidi, Anambra state								3.00	18.97									
		Ogoja, Cross River state										3.57								
		Onitsha, Anambra state								4.04	26.00									
		Plateau state															30.40			
		Port Harcourt, Rivers state										3.07								
		Rano, Kano state							3.77											
		Rivers state																	14.30	
		Sokoto, Sokoto state									2.97									
		Unth, Enugu state									4.59									
		Warri, Delta state									8.91	6.06								
		Zing, Taraba state										17.11								
		Benin City, Edo state							0		1.98	11.27								
		Major urban areas	Ibadan	2.60																
	Ibadan, Oyo state							0.58		0										
	Ikeja, Lagos state							5.71												
	Ilorin, Kwara state									5.00	3.75									
	Kano state																	12.40		
	Kano, Kano state							14.29		19.00										
	Lagos							2.40												
	Lagos Island, Lagos state							2.20		20.00										
	Lagos state																20.80			
	LUTH, Lagos				2.00															
	Offa, Kwara state										0									
Oshogbo, Osun state							0		2.63	7.37										
Oyo state															4.20					
University College Hosp. & Jericho				0.90																