

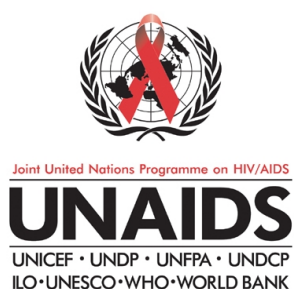
India

Epidemiological Fact Sheets

on HIV/AIDS
and Sexually
Transmitted
Infections



2002 Update



Estimated number of people living with HIV/AIDS

In 2001 and during the first quarter of 2002, 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 1997 and 1999 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 generalized 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 which 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 2001

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 2001:

Adults and children	3,970,000		
Adults (15-49)	3,800,000	Adult rate (%)	0.8
Women (15-49)	1,500,000		
Children (0-15)	170,000		

■ Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 2001:

Deaths in 2001

■ 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 15 at the end of 2001:

Current living orphans

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 2001. 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.

Assessment of the epidemiological situation (2002)

The first case of AIDS in India was detected in 1986. Since then, HIV infections have been reported in all States and Union Territories. With a population of one billion—about half in the 15-49 year-old population—HIV epidemics in India will have a major impact on the overall spread of HIV in Asia and the Pacific, as well as globally.

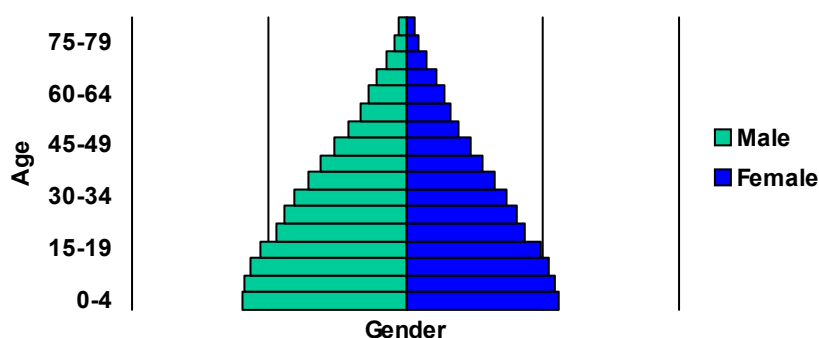
The spread of HIV within India is as diverse as the societal patterns between its different regions, states and metropolitan areas. The epidemics are focused very sharply in a few southern States, with most of India having extremely low rates of infection. An overwhelming majority of the total reported national AIDS cases—96%—were reported by only 10 of the 31 states. The major impact is being felt in Maharashtra in the west, Tamil Nadu in the south with adjacent Pondicherry, and Manipur in the north-east. The epidemics vary between states, with heterosexually transmitted infections predominating in Maharashtra and Tamil Nadu, while infections concentrated among injecting drug users (IDU) and their partners predominate in Manipur. With a high prevalence of tuberculosis infection in India, the problem of tuberculosis related to HIV infection also poses a major public health challenge.

Between 1994 and 1997, HIV prevalence among STI clinic attendees in Maharashtra state increased from 6% to 36%, and prevalence among IDUs in Manipur increased from 25% to 61%. However, there were insufficient numbers of sentinel surveillance sites to get an adequate picture of the overall HIV situation. In 1998, the number of HIV Sentinel Surveillance sites increased from 55 to 180: 83 STI, 89 ANC and 8 IDU. HIV prevalence data were collected twice in 1998, February – March and August – October. The 1998 HIV Sentinel Surveillance data from antenatal clinics in seven metropolitan cities showed HIV prevalence to be over 2% in Mumbai, more than 1% in Hyderabad and Bangalore, and below 1% in Calcutta, Ahmedabad and Delhi. HIV prevalence levels outside these major urban agglomerations were in general lower, and no infection was found in a number of rural HSS sites.

In late 1998, NACO convened a group of national and international experts to review the results of the first round of the expanded HSS to produce state-specific and national estimates on HIV/AIDS. The new calculations provide greater consistency in making a national estimate of HIV prevalence in India. The national prevalence estimate was increased for 2001 to 3.97 million.

Country Information

Population pyramid, 2001



Indicators	Year	Estimate	Source
Total Population (thousands)	2001	1,025,096	UNPOP
Population Aged 15-49 (thousands)	2001	533,580	UNPOP
Annual Population Growth	1995-2000	1.7	UNPOP
% of Urban Population	2000	28	UNPOP
Average Annual Growth Rate of Urban Population	1995-2000	2.8	UNPOP
GNI Per Capita (US\$)	1999	440	World Bank
GNI Per Capita Average Annual Growth Rate	1999	4.9	World Bank
Per Capita Expenditure of Health	1995	20	World Bank
% of Government Budget Spent on Health Care	1998	5.6	WHO
Total Adult Literacy Rate	1997	55	UNESCO
Adult Male Literacy Rate	1997	67	UNESCO
Adult Female Literacy Rate	1997	43	UNESCO
Male Primary School Enrolment Ratio	1996	109.1	UNESCO
Female Primary School Enrolment Ratio	1996	89.7	UNESCO
Male Secondary School Enrolment Ratio	1996	58.8	UNESCO
Female Secondary School Enrolment Ratio	1996	39.3	UNESCO
Crude Birth Rate (births per 1,000 pop.)	1995-2000	26	UNPOP
Crude Death Rate (deaths per 1,000 pop.)	1995-2000	9	UNPOP
Maternal Mortality Rate (per 100,000 live births)	1995	440	WHO
Life Expectancy at Birth	1995-2000	62	UNPOP
Total Fertility Rate	1995-2000	3.3	UNPOP
Infant Mortality Rate (per 1,000 live births)	1995-2000	73	UNPOP
Under 5 Mortality Rate	1995-2000	86	UNPOP

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

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4 - India

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	
Pregnant women	Major Urban Areas	N-sites		2	2	3	2	3	3	4	4	3	4	7	7			
		Minimum		0	0	0	0	0	0	0	0	0	0	0	0.25	0		
		Median		0	0	0	0	0	0.7	1.05	0.48	1.14	0.85	2.5	2			
	Maximum		0	0	0	0	0.5	0.8	2.5	2.3	2.38	3	3.8	3.25				
	Outside Major Urban Areas	N-sites	1	1	3	4	10	5	4	3	6	4	5	75	87	3		
		Minimum	0.1	0.1	0	0	0	0.1	0	0.1	0	0.3	0.25	0	0	1		
Median		0.1	0.1	0	0	0.35	0.7	0.2	0.8	0.45	0.5	1.25	0.25	0.25	2			
Maximum	0.1	0.1	0	0.1	2.4	1	1.9	0.8	4.3	2.5	3.6	28.24	6.5	3.9				
Sex workers	Major Urban Areas	N-sites	2	3	1	2	4	3	2	2	2	2	1	1				
		Minimum	0	0.1	13.2	0.2	0	0.7	1.4	1.6	1.2	11.3	11.9	5.3				
		Median	0.45	4.5	13.2	10.65	4.05	0.9	26.2	26.3	2.4	31.15	11.9	5.3				
	Maximum	0.9	8.8	13.2	21.1	33.9	26.6	51	51	3.6	51	11.9	5.3					
	Outside Major Urban Areas	N-sites	5	3	5	5	5	7	6	3				1	2	1		
		Minimum	0	0	0	0	0	0	1	1				4.76	11	3.4		
Median		3.1	1.4	4.9	12.5	19	23.7	23.25	29				4.76	15.5	3.4			
Maximum	12	5	8.5	24.2	31.6	36.5	46.8	34.9				4.76	20	3.4				
Injecting drug users	Major Urban Areas	N-sites					1	1		1	1	1						
		Minimum					1.9	1.5		1.2	1.7	3.5						
		Median					1.9	1.5		1.2	1.7	3.5						
	Maximum					1.9	1.5		1.2	1.7	3.5							
	Outside Major Urban Areas	N-sites	1	1	1	1	1	2	2	3	6	2	2	5	7	1		
		Minimum	0	0	8.6	39.1	44.8	52.7	1.5	25.4	0	55.7	67.1	0.96	1.2	8		
Median		0	0	8.6	39.1	44.8	59.95	43.28	39	25.45	64.5	72	70.3	29.5	8			
Maximum	0	0	8.6	39.1	44.8	67.2	85.06	55	61.1	73.3	76.9	76.1	68.4	8				
STI patients, Males/both & females	Major Urban Areas	N-sites	3	3	3	7	7	8	10	3	3	4	9	5	6			
		Minimum	0	0.09	0.03	0	0.09	0.13	0.5	0.58	0.86	2.13	0	1.6	0.8			
		Median	1	2	2.5	3.2	5.3	4.65	8.7	3.78	5.7	15.955	5.5	32	6.35			
	Maximum	1.5	9.7	9.9	13.8	16.4	22.8	27.9	29	31.41	32.6	42	58.8	64.4				
	Outside Major Urban Areas	N-sites	6	6	6	6	9	8	6	22	24	16	6	61	71	3		
		Minimum	0	0	0.94	0.6	1.3	2.6	0	0	0	0	4.8	0	0	2		
Median		0.15	0.71	1.47	2.14	2.76	5.155	3.92	4.75	4.65	5.75	15.6	2.857143	2.4	4.8			
Maximum	0.8	1.4	3	4.8	6.63	13.75	6.2	20.5	21.7	19.3	22.4	50.25381	44.8	12				
Men who have sex with men	Major Urban Areas	N-sites					1	1										
		Minimum					1.1	20.3										
		Median					1.1	20.3										
	Maximum					1.1	20.3											
	Outside Major Urban Areas	N-sites	1	2														
		Minimum	0	0														
Median		0	0.2															
Maximum	0	0.4																

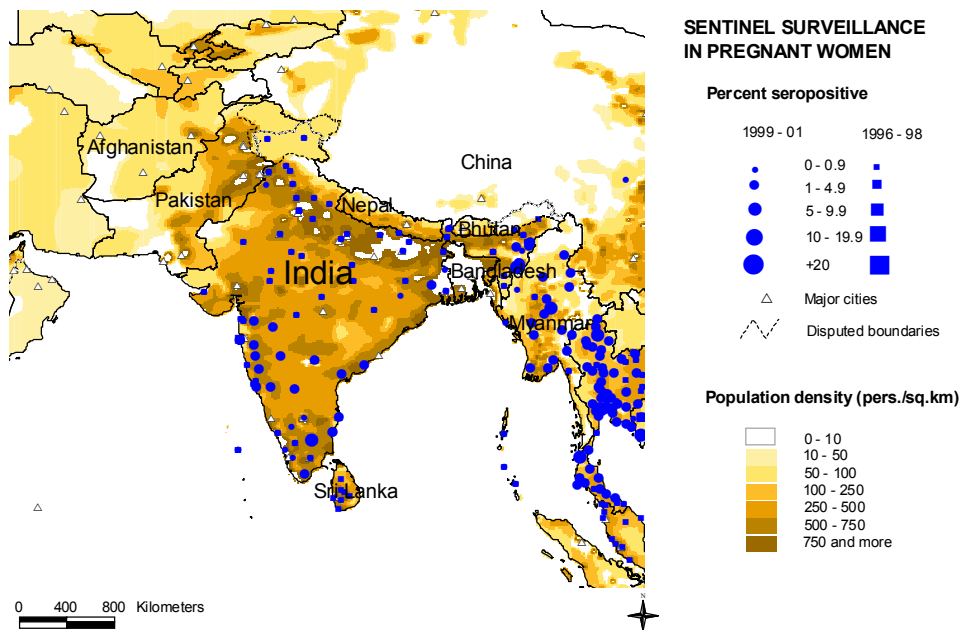
■ Additional data

Group	Area		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Blood donors																	
Tuberculosis patients	Major Urban Areas	N-sites	1	1	3	2	3	4	2	2	2	3	3	1	1		
		Minimum	0	2.4	0	3.9	0.4	0	0	1	0.5	1.5	2.9	30	33		
		Median	0	2.4	2.3	3.95	7.1	4.6	5.3	6	5.6	3.2	3.4	30	33		
	Maximum	0	2.4	3.8	4	7.9	10.6	10.6	11	10.7	16.8	23	30	33			
	Outside Major Urban Areas	N-sites				1	4	4	3	3	5	4	3	5	4		
		Minimum				0	0.7	0.9	0	3.2	2.3	3.6	4.4	6	2.8		
Median					0	1.4	1.15	3.2	4	5.2	13.8	21.4	11.2	13			
Maximum				0	4.5	2.5	11.5	14.3	12.1	18.5	21.5	17.6	20.1				

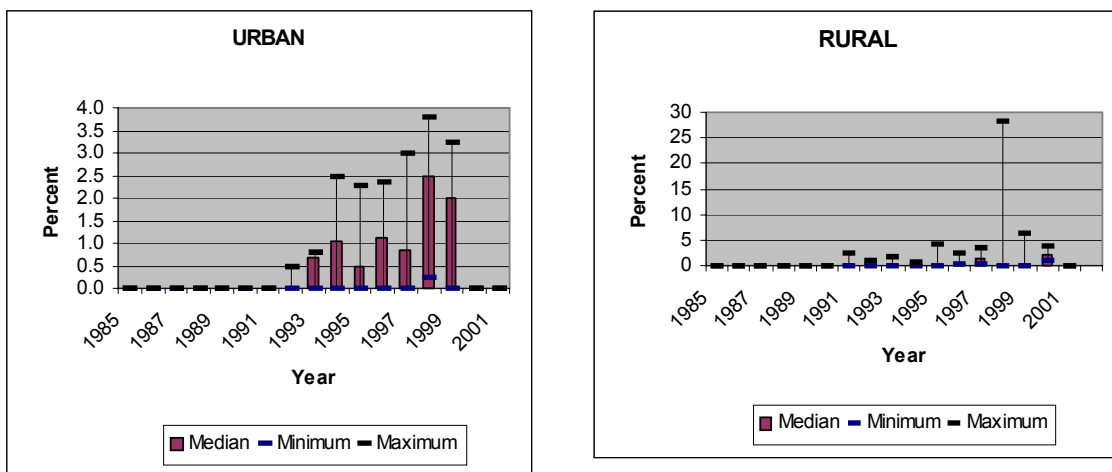
Maps of HIV sentinel sites

Mapping the geographical distribution of HIV sentinel sites for different population groups may assist in interpreting both the national coverage of the HIV surveillance system as well in explaining differences in levels and trends 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 of HIV sentinel sites in relation to population density, major urban areas and communication routes.

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 will be 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.
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6 - India

Reported AIDS cases

AIDS cases by year of reporting

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
0	0	0	0	0	0	0	0	0	0	0	57	45	140	252	523	1091	888	2108	1148		

2001	Total	Unk
	8438	2186

Date of last report: 31-Aug-1999

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 HAART (Highly Active Anti-Retroviral Therapy).

AIDS cases by mode of transmission

Hetero: Heterosexual contacts.

Homo/Bi: Homosexual contacts between men.

IDU: Injecting drug use. This transmission category also includes cases in which other high-risk behaviours were reported, in addition to injection of drugs.

Blood: Blood and blood products.

Perinatal: Vertical transmission during pregnancy, birth or breastfeeding.

NS: Not specified/unknown.

Sex	Trans. Group	<97	1997	1998	1999	2000	2001	Unkn.	Total	%
All	All									
	Hetero									
	Homo/Bi									
	IDU									
	Blood									
	Perinatal									
	Other knowr									
	Unknown									
Male	All									
	Hetero									
	Homo/Bi									
	IDU									
	Blood									
	Perinatal									
	Other knowr									
	Unknown									
Femal	All									
	Hetero									
	Homo/Bi									
	IDU									
	Blood									
	Perinatal									
	Other knowr									
	Unknown									
NS	All									
	Hetero									
	Homo/Bi									
	IDU									
	Blood									
	Perinatal									
	Other knowr									
	Unknown									

AIDS cases by age and sex

Sex	Age	<97	1997	1998	1999	2000	2001	Unkn.	Total	%
All	All									
	0-4									
	5-9									
	10-14									
	15-19									
	20-24									
	25-29									
	30-34									
	35-39									
	40-44									
	45-49									
	50-54									
	55-59									
	60+									
NS										
Male	All									
	0-4									
	5-9									
	10-14									
	15-19									
	20-24									
	25-29									
	30-34									
	35-39									
	40-44									
	45-49									
	50-54									
	55-59									
	60+									
NS										
Female	All									
	0-4									
	5-9									
	10-14									
	15-19									
	20-24									
	25-29									
	30-34									
	35-39									
	40-44									
	45-49									
	50-54									
	55-59									
	60+									
NS										

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 STI are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STI facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Also significant is the observation of a sharp decline in the concentration of HIV in genital secretions when the infection is treated. Monitoring trends in STI can provide valuable information on the sexual transmission of HIV as well as the impact of behavioural interventions, such as promotion of condom use.

Clinical services offering STI care are an important access point for people at high risk for both AIDS and STIs, not only for diagnosis and treatment but also for information and education. Therefore, control and prevention of STIs have been recognized as a major strategy in the prevention of HIV infection and ultimately AIDS. One of the cornerstones of STI control is adequate management of patients with symptomatic STIs. This includes diagnosis, treatment and individual health education and counselling on disease prevention and partner notification. Consequently, monitoring different components of STI control can also provide information on HIV prevention within a country.

■ Reported STI syndromes

Syndrome	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	Unk
Urethral discharge														
Genital Ulcer														
Vaginal discharge														
Lower Abdominal Pain														
Neonatal conjunctivitis														

Date of last report:

■ Incidence of urethral discharge, men

Year	Area	Age Group	Rate	N=

Comments:

Sources:

■ Syphilis prevalence, women

Percent of blood samples taken from women aged 15-24 that test positive for syphilis during routine screening at selected antenatal clinics.

Year	Area	Age Group	Rate	N=

Comments:

Sources:

8 - India

Estimated size of populations at increased risk of HIV infection

	Year	Area	High estimate	Low estimate
Number of female sex workers				
Number of injecting drug users				
Number of men who have sex with men				

Comments:

Sources:

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	48.2	UNICEF/UNPOP
Percentage of contraceptive users using condoms:			
% of births attended by skilled health personnel:	1999	42.3	WHO
% of 1-yr-old children fully immunized - DPT:	2000	93.9	WHO/UNICEF
% of 1-yr-old children fully immunized - Measles:	2000	88.5	WHO/UNICEF
% of ANC clinics where HIV testing is available:			
% of PLWHA who have access to ARV:			

■ Number of people living with HIV/AIDS (PLWHA) receiving highly active antiretroviral therapy (HAART)

	1995	1996	1997	1998	1999	2000	2001	Total	Unk
People initiating HAART therapy									

■ Coverage of HIV Voluntary Counselling and Testing (VCT)

Number of functioning VCT sites per 100,000 population aged 15-49.

Year	Area	N=	Rate

Comments:

Sources:

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**

Proportion of people citing correctly at least two acceptable ways of protection from HIV infection.

Year	Area	Age Group	Male	Female	All

Comments:

Sources:

■ **Misconception about AIDS (no incorrect beliefs)**

Proportion of people who correctly reject the two most common local misconceptions about AIDS transmission or prevention, and who know that a healthy looking person can transmit AIDS

Year	Area	Age Group	Male	Female	All
2001	All	15-49		20.0	

Comments:

Sources: BSS

■ **Median age at first sexual experience**

The age by which one half of young men or young women aged 15-24 have had penetrative sex (median age) of all young people surveyed.

Year	Area	Age Group	Male	Female	All

Comments:

Sources:

■ **Higher risk sex in the last year (adults)**

Proportion of adult respondents who have had sex with a non-regular (non-marital, non-cohabiting) partner in the last 12 months, of all adult respondents reporting sexual activity in the last 12 months.

Year	Area	Age Group	Male	Female	All

Comments:

Sources:

■ **Young people having multiple partners in last year (youth)**

Proportion of respondents who have had sex with more than one partner in the last 12 months.

Year	Area	Age Group	Male	Female	All

Comments:

Sources:

Knowledge and behaviour

■ Condom use in last higher risk sex (adults)

The percentage of adult respondents who say they used a condom the last time they had sex with a non-regular (non-marital, non-cohabiting) partner, of those who have had sex with such a partner in the last 12 months.

Year	Area	Age Group	Male	Female	All
------	------	-----------	------	--------	-----

Comments:

Sources:

■ Young people using a condom during premarital sex (youth)

Proportion of young single people who used a condom at last sex.

Year	Area	Age Group	Male	Female	All
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Comments:

Sources:

■ Commercial sex in the last year

Proportion of men reporting sex with a sex worker in the last 12 months.

Year	Area	Age Group	Rate	All
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Comments:

Sources:

■ Reported condom use in commercial sex

Proportion of men reporting condom use the last time they had sex with a sex worker, of those who report having had sex with a sex worker in the last 12 months.

Year	Area	Age Group	Rate	All
------	------	-----------	------	-----

Comments:

Sources:

■ Higher risk male-male sex in the last year

The percentage of men who have had anal sex with more than one male partner in the last 6 months, of all men surveyed who have had sex with a male partner.

Year	Area	Age Group	Rate	All
------	------	-----------	------	-----

Comments:

Sources:

■ Injecting drug users sharing equipment at last injection nationwide

Percentage of injecting drug users active in the last month who report sharing injecting equipment the last time they injected drugs.

Year	Area	Age Group	Rate	All
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Comments:

Sources:

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:

Sources:

■ **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:

Sources:

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:

Sources:

12 - India

Sources

Data presented in this Epidemiological Fact Sheet come from several different 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.

AIDS Prevention and Control 1997 Sentinel Surveillance Data for March and September 1997 AIDS Prevention and Control Project, Department of Health, tables.

Ambwani, P. N., I. S. Gilada, J. Karkare, et al. 1998 Prevention of Perinatal Transmission: IHO-Wadia Model 12th World AIDS Conference, Geneva, 6/28-7/3, Abstract 23309.

Ashok, S., K. Dr. Jayapaul 2000 Long Term Impact on STD Case Management Paves Way for Prevention of HIV/AIDS among the Sex Workers - Pondicherry ... XIII International AIDS Conference, Durban, South Africa, 7/9-14, Abstract WePeC4358.

Bhave, G. G., U. D. Wagle, S. Desai, et al. 1992 HIV II Prevalence in Prostitutes of Bombay VIII International Conference on AIDS, Amsterdam, 7/19-24, Poster PoC 4623.

Babu, P. G., T. Ishida, V. Nerurkar, et al. 1994 Epidemiology of Retroviral Infections in South India Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P.C.0082.

Bhave, G., S. Desai, V. Parkar 1996 Trends of HIV-1 and HIV-2 Infection in STD Patients and Pattern of Transmission to Their Spouses in Bombay, India XI International Conference on AIDS, Vancouver, 7/7-14, Poster, Mo.C.1496.

Bhurushundi, M., R. Munje, A. Saraf, et al. 2000 HIV Seropositivity in Tuberculosis XIII International AIDS Conference, Durban, South Africa, 7/9-14, Abstract WePeC4412.

Chakrabarty, M. S., P. N. Dey, S. Paul, et al. 1994 Seroepidemiology of HIV Infection in Calcutta Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P.C.0083.

Deo, S. 1991 Sero-Surveillance of HIV Infection in the Red-Light Areas of Sangli District Tropical Doctor, pp. 82-83.

Datta, M. 1995 Tuberculosis Related to HIV/AIDS 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Session WS10.

Dey, S. K., N. K. P. Pal, N. B. Bhattacharjee, et al. 1998 Spectrum of HIV Infection in Tuberculosis (TB) - Urban and Rural Experiences of Different Perspectives, West Bengal, India 12th World AIDS Conference, Geneva, 6/28 - 7/3, Abstract 22152.

Dey, S. K., N. K. P. Pal, N. B. Bhattacharjee, et al. 1998 Changing Pattern of HIV Infection in Some Risk Groups: 1987-1996, West Bengal, India 12th World AIDS Conference, Geneva, 6/28 - 7/3, Poster 43491.

Dey, S. K., N. Pal, U. Ganguly, et al. 1999 Measuring the Impact of Interventions in HIV Epidemic - Experience from a Rural Belt of North Bengal and Urban Calcutta, India 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PSCD111.

Dey, S. K. 1999 Spectrum of HIV Infection among STD Clinic Attenders: Experiences of Different Perspectives from Rural North Bengal and Urban .. 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PTAB034.

Ekstrand, M., C. Lindan, G. Bhave, et al. 1998 Male STD Patients in Mumbai, India are in Urgent Need of Culturally Specific and Feasible AIDS Prevention Programs 12th World AIDS Conference, Geneva, 6/28 - 7/3, Abstract 14209.

Gopalakrishnan, P. B., S. Padmarajan, M. Johnson, et al. 1992 HIV the 3rd Generation STD Problem 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Poster A403.

Gilada, I., R. Mahajan, S. Hira 1994 HIV Infection in Pregnant Women in Bombay Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Poster P.C.0081.

Gadkari, A. D., et al. 1995 HIV Seroprevalence in STD and TB Clinics TB & HIV, no. 8, p. 28.

Gupta, P., C. J. VanDam, V. Talwar, et al. 1997 RTI's and HIV amongst MCH Attendants of East Delhi, India 4th International Congress on AIDS in Asia and the Pacific, Manila, Philippines, 10/25-29, Abstract AP081.

Hussain, M., N. Islam, Z. Hossain, et al. 1999 Study on Prevalence of HBV, HCV and HIV Markers among Blood Donors and Pregnant Women in Bangladesh Department of Transfusion Medicine, IPGMR, Dhaka, Bangladesh, November, report.

John, T. J., P. G. Babu, H. Jayakumari, et al. 1987 Prevalence of HIV Infection in Risk Groups in Tamil Nadu, India Lancet, Jan. 17, vol. 1, no. 8525, pp. 160-161.

Jagavkar, C., P. Dalaa, A. Chowdhary 1995 GUD and HIV Infection in STD Centennial Surveillance in Bombay IUVDT World STD/AIDS Congress, Singapore, 3/19-23, Free Paper 11.

- John, T. J., N. Bhushan, P. G. Babu, et al. 1993 Prevalence of HIV Infection in Pregnant Women in Vellore Region Indian Journal of Medical Research, vol. 97, pp. 227-230.
- Jagtap, M. 1995 HIV Epidemic in Maharashtra State, India 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Abstract PB115.
- Jacob, M., T. J. John, G. Soshamma, et al. 1995 Increasing Prevalence of Human Immunodeficiency Virus Infection among Patients Attending a Clinic for Sexually Transmitted . . . Indian Journal of Medical Research, vol. 101, pp. 6-9.
- James, R. A. 1999 HIV/STD Intervention for CSWs, Truck Drivers and Eunuchs in Vellore 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PTAB035.
- Jerajani, H., M. S. Setia, R. S. Dhurat 2000 A Study of the Trends of Clinic Attendance in an STD Clinic XIII International AIDS Conference, Durban, South Africa, 7/9-14, Poster WePeC4363.
- Kamat, H. A., D. D. Banker 1993 Human Immunodeficiency Virus-1 Infection among Patients with Sexually Transmitted Diseases in Bombay The National Medical Journal of India, vol. 6, no. 1, pp. 11-13.
- Kant, S., P. Seth, K. Martin, et al. 1995 HIV Prevalence among Pregnant Women Residents of Selected Slums of Delhi 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Poster PB117.
- Kura, M., M. Kohli, R. D. Kulkarni, et al. 1996 Pattern of STD in Bombay XI International Conference on AIDS, Vancouver, 7/7-14, Abstract Pub.C.1271.
- Khan, M. A. 1998 Behavioural Aspects of HIV Infection amongst the Sex Workers of Agra 12th World AIDS Conference, Geneva, 6/28 - 7/3, Poster 23549.
- Khan, M. A. 1999 Counselling: Effect on KAP against HIV/AIDS and STDs among CSWs 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PMCD081.
- Krishnamurthy, P. 1999 Community Prevalence of STD - in Tamil Nadu, India Presented at Monitoring the AIDS Pandemic (MAP) in Asia Symposium, Network Consultative Meeting, 10/19-21, Kuala Lumpur, Malaysia.
- Lal, S., et al. 1991 AIDS Control Programme of India Government of India, Nirman Bhawan, New Delhi, India, Unpublished report.
- Li, P. C., E. K. Yeoh 1992 Current Epidemiological Trends of HIV Infection in Asia AIDS Clinical Review, pp. 1-23.
- Lakshmi, N., A. G. Kumar 1991 HIV Infection in Tirupati, India Genitourinary Medicine, vol. 67, pp. 427-428.
- Lal, S., L. Khodakevich, P. Salil 1994 HIV Infection in India - Trends Analysis Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Session 039C.
- Lindan, C., G. Bhave, P. Gupte, et al. 1997 High Prevalence of HIV among Male STD Patients in Bombay Heralds Spread to the General Population 4th International Congress on AIDS in Asia and the Pacific, Manila, Philippines, 10/25-29, Abstract BP120.
- Mehendale, S., J. J. Rodrigues, R. Gangakhedkar, et al. 1994 STDs and HIV Infection in CSWs of Pune, India Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Abstract P.C.0351.
- Mathur, D., V. Acharya, N. K. Mathur 1995 STD/HIV Prevalence in Urban Areas of Jaipur 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Poster PB116.
- Misra, K., A. Rao, A. Dey, et al. 1996 "Truckers & STDS/HIV" a One Year Study at Uluberia a Checkpost in West Bengal, India XI International Conference on AIDS, Vancouver, 7/7-14, Poster Mo.C.1631.
- Murugasampillay, S. 1993 HIV and AIDS Surveillance at State Level in India a Public Health Tool for AIDS and STD Control National AIDS Control Organisation - India and Global Programme on AIDS, World Health Organisation, 12th August - 8th December, draft report.
- Mathur, D., P. Durlabhji, N. M. Singhvi, et al. 1997 HIV Sentinel Surveillance in STD and Antenatal Clinic Attenders 4th International Congress on AIDS in Asia and the Pacific, Manila, Philippines, 10/25-29, Abstract AP115.
- Marques, L., A. Purohit 1999 Counseling Plays an Important Role in HIV Prevention among CSWs 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PMCD086.
- Mehta, N. M., A. Purohit, J. Chakraborty, et al. 1999 Update of the Study of Incidence of HIV Seropositivity at the Blood Bank in Jodhpur, India 5th International Congress on AIDS in Asia and the Pacific, Kuala Lumpur, Malaysia, 10/20-27, Abstract PTCD009.
- Mohanty, K. C., R. M. Sundrani 2000 Prevalence of Tuberculosis & HIV in Indoor Patients XIII International AIDS Conference, Durban, South Africa, 7/9-14, Abstract WePeC4419.
- Narain, J. P., A. Jha, S. Lal. et al. 1994 Risk Factors for HIV Transmission in India AIDS, vol. 8, suppl. 2, pp. S77-S82.
- National STD Control Programme 1995 National STD Control Programme Ministry of Health and Family Welfare.
- National AIDS Control Programme 1997 HIV Sentinel Surveillance Report National AIDS Control Programme, India, unpublished document.
- National AIDS Control Organisation 1998 Country Scenario 1997-98 National AIDS Control Organisation, Ministry of Health and Family Welfare, Government of India, pp. 15-31.

- National AIDS Control Organisation 1998 HIV Sentinel Surveillance Report: August - October 1999 National AIDS Control Organisation, India, unpublished tables.
- Porterfield, D. S., A. D. Nageswari, R. Paramasivam, et al. 1992 HIV Infection, Sexual Habits and Tuberculosis in South India 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Abstract B331.
- Pankajalakshmi, V. V., A. Uma, R. Sethuraman, et al. 1992 HIV Seropositivity among STD Patients 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Poster B704.
- Palaniappan, K. 1995 Trend of HIV among STD Patients, Pregnant Women and Truckers through Unlinked Anonymous Screening in India 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Poster PB120.
- Pal, N. K., A. Das, P. K. Halder, et al. 1995 HIV and Syphilis in CSWs Clients and IV Drug Abusers in Calcutta 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Poster PB123.
- Panda, S., G. Kame, M. Pamei, et al. 1994 Clinical Features of HIV Infection in Drug Users of Manipur National Medical Journal of India, vol. 7, no. 6, pp. 267-269.
- Purohit, A., N. M. Mehta, R. Behra, et al. 1998 Incidence of HIV Seropositivity at the Blood Bank in Jodhpur, India 12th World AIDS Conference, Geneva, 6/28-7/3, Poster 23259.
- Rose, A., H. Srinivasa, R. S. Macaden, et al. 1992 Anonymous HIV Screening of Pregnant Women, Women with Bad Obstetric History and Patients from Psychiatry 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Abstract A602.
- Rajan, R. 1992 Documentation - Need within Different User Category 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Poster D205.
- Ray, K., V. Ramesh, S. N. Karmakar, et al. 1996 Increasing Trend of HIV Seropositivity in a Sexually Transmitted Diseases Centre and Epidemiology of HIV Seropositive . . . International Journal of STD and AIDS, vol. 7, no. 1, pp. 48-50.
- Raviglione, M. C., F. Luelmo 1996 Update on the Global Epidemiology of Tuberculosis Current Issues in Public Health, vol. 2, pp. 192-197.
- Solomon, S., Sundararaman, G. Babu, et al. 1988 Quantitative Estimation of HIV Antibodies in Prostitutes IV International Conference on AIDS, Stockholm, 6/15-16, Poster 5512.
- Singh, B. 1988 Screening of HIV Antibody among High Risk Groups in Manipur IV International Conference on AIDS, Stockholm, 6/15-16, Abstract 5509.
- Seth, P., A. N. Malaviya, U. Kiran, et al. 1988 Lack of Evidence of Endemicity of Human Immunodeficiency Virus Infection in Northern India Indian Journal of Medical Research, vol. 87, pp. 108-112.
- Singh, Y. N., A. N. Malaviya, S. P. Tripathy, et al. 1990 HIV Serosurveillance among Prostitutes and Patients from a Sexually Transmitted Diseases Clinic in Delhi, India Journal of Acquired Immune Deficiency Syndromes, vol. 3, no. 3, pp. 287-289.
- Sankari, S., S. Solomon, et al. 1991 Trends of HIV Infections in Antenatal/Infertility Clinic - An Ominous Sign: VII International Conference on AIDS, Florence, Italy, 6/16-21, Poster W.C.3236.
- Solomon, S., T. Jagadeeswari, K. Anuradha 1992 Sentinel Surveillance for HIV Infection VIII International Conference on AIDS, Amsterdam, 7/19-24, Abstract PoC 4086.
- Saxena, D. M., J. K. Kosambiya 1992 HIV Seropositivity in Sex Workers of Surat 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Poster B338.
- Singh, Y. N., K. Singh, B. Joshi, et al. 1993 HIV Infection among Long-Distance Truck Drivers in Delhi, India Journal of Acquired Immune Deficiency Syndromes, vol. 6, no. 3, p. 323.
- Simoës, E. A. F., P. G. Babu, H. M. Jeyakumari, et al. 1993 The Initial Detection of Human Immunodeficiency Virus 1 and its Subsequent Spread in Prostitutes in Tamil Nadu, India Journal of Acquired Immune Deficiency Syndromes, vol. 6, no. 9, pp. 1030-1034.
- Sarkar, S., N. Das, S. Panda, et al. 1993 Rapid Spread of HIV among Injecting Drug Users in North-Eastern States of India Bulletin on Narcotics, vol. XLV, no. 1, pp. 91-105.
- Singh, Y. N., A. N. Malaviya 1994 Experience of HIV Prevention Interventions among Female Sex Workers in Delhi, India International Journal of STD and AIDS, vol. 5, no. 1, pp. 56-57.
- Singh, N. B., Y. I. Singh, H. L. Singh 1991 Epidemic of HIV Infection among Intravenous Drug Users in Manipur, India Virus Information Exchange Newsletter, vol. 8, no. 1, p. 20.
- Solomon, S., S. Anuradha, M. Ganapathy, et al. 1994 Sentinel Surveillance of HIV-1 Infection in Tamilnadu, India International Journal of STD and AIDS, vol. 5, pp. 445-446.
- Singh, R., A. Kumar, S. Kumar, et al. 1995 AIDS Surveillance and Education Programme on Truckers 3rd International Conference on AIDS in Asia and the Pacific, Chiang Mai, Thailand, 9/17-21, Poster PB1707.
- Sterne, J. A. C., A. C. Turner, P. E. M. Fine, et al. 1995 Testing for Antibody to Human Immunodeficiency Virus Type 1 in a Population in Which Mycobacterial Diseases are Endemic Journal of Infectious Diseases, vol. 172, no. 2, pp.

Sato, P. 1992 HIV Sero-Survey Data, India Presented/discussed during Calcutta Workshop, October 28, document.

Sengupta, S., C. Priyamvada 1997 HIV Surveillance in Poor Women of the General Population Vis-a-Vis STD Prevalence 4th International Congress on AIDS in Asia and the Pacific, Manila, Philippines, 10/25-29, Poster AP061.

Salunke, S., M. R. Jagtap, S. Hira, et al. 1997 Rapid Rise in HIV Prevalence among Women Attending Government STD Clinic in Mumbai (Bombay), India International Journal of STD and AIDS, vol. 8, no. 4, p. 280.

Shaukat, M. 1999 Current Status and Trend of HIV/AIDS Epidemic in India Presented at Monitoring the AIDS Pandemic (MAP) in Asia Symposium, Network Consultative Meeting, 10/19-21, Kuala Lumpur, Malaysia.

Sandras Panchatchara, M. T. J., D. Daniels, S. Kumar, et al. 2000 Trends in Transmission of HBV, HCV and HIV Infections in Injecting Drug Users (IDUS) in Tamilnadu, India: Point Prevalence ... XIII International AIDS Conference, Durban, South Africa, 7/9-14, Abstract ThPeD5507.

Tripathy, S. P., K. Banerjee, S. G. Deshpande, et al. 1993 Prevalence of HIV-2 Infection in STD Patients in Pune City in India IX International Conference on AIDS, Berlin, 6/6-11, Poster PO-C20-3077.

Tripathy, S., K. Banerjee, J. Rodrigues, et al. 1993 Increasing HIV Infection in Western India IX International Conference on AIDS, Berlin, 6/6-11, Poster PO-C08-2764.

Tripathy, S. P., D. Joshi, P. Menon, et al. 1996 Seroprevalence of HIV-1 Infection in Tuberculosis Patients at Pune, India XI International Conference on AIDS, Vancouver, 7/7-14, Abstract Pub.B.1091.

Tripathy, S. P., D. R. Joshi, P. Menon, et al. 1997 Sentinel Surveillance for HIV Infection in Tuberculosis Patients in Pune, India 4th International Congress on AIDS in Asia and the Pacific, Manila, Philippines, 10/25-29, Abstract Do041.

U.S. Department of State 2000 HIV/AIDS in Northeast India Unclassified cable, December, Calcutta 0610.

Verenkar, M., S. Rodrigues, M. J. Pinto, et al. 1992 HIV, Hepatitis B and Syphilis among Sex Workers of Goa 2nd International Congress on AIDS in Asia and Pacific, New Delhi, India, 11/8-12, Poster A128.

Websites: National AIDS Control Organization (NACO): <http://www.naco.nic.in/>

Indian Health Organization (IHO): <http://www.wwindia.com/iho/>

Ministry of Health and Family Welfare: <http://mohfw.nic.in/>

13 - India

Annex: HIV Surveillance by site

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001			
Pregnant women	Major Urban Areas	Calcutta	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.50	0.80	0.00					
		Delhi								0.00		0.00							
		Madras	0.00	0.00	0.00														
		Mumbai					0.50	0.70	1.10	2.30	1.14	1.20							
		Mumbai (L.T. Medical College)												2.80	2.75				
		Mumbai (J.J. Hosp. & Gov. Medical College)												2.50	3.25				
		Mumbai (KEM Hosp.)												2.80	2.25				
		Mumbai(Nair)												3.80	2.00				
		New Delhi				0.00	0.00	0.00	0.00										
		New Delhi (Mangolpun)													0.25	0.25			
		New Delhi (Safdarjung)													0.30	0.25			
		Outside Major Urban Areas	(ANC I)				1.50												
			(ANC II)				2.40												
			Ahmedabad district			0.00	0.00												
			Aizwal												0.96	0.00			
	Akola													1.50	0.25				
	Aligarh													0.20	0.00				
	Amritsar													0.00	0.50				
	Aurangabad													0.00	1.50				
	Bangalore					0.00			0.00							0.25			
	Baroda														0.00	0.80			
	Bellary															1.67			
	Bishnupur														0.80	2.25			
	Car Nicobar														0.00	0.50			
	Chandigarh														0.50	0.75			
	Chennai														0.79	1.25			
	Chindwara														0.00	0.00			
	Churachandpur						0.50								3.50	5.25			
	Coimbatore									0.10	0.40	0.30	1.25	0.50	0.00	0.00			
	Daman														0.30	0.00			
	Dimapur															2.00			
	Diu														0.00	0.00			
	Durgapur														0.25	0.25			
Faridkot															0.25				
Gangtok														0.30	0.25				
Garo Hills														0.00	0.49				
Gorakhpur														0.00	0.00				
Guntur														2.80	4.00				
Haldwani														0.00	0.00				
Hamirpur														0.20	0.49				
Hubli														1.80	2.00				
Hyderabad (Inst. of Prev. Medicine)														2.50	1.90				
Hyderabad (Nizam Inst. of Med. Sci.)														28.24	0.50				
Imphal						1.00	1.00												
Imphal (RIMS)														2.70	2.25				
Imphal (Sentinel surv. site)														0.80	1.50				
Itanagar														0.40	0.00				
Jagdalpur														0.94	0.50				
Jaipur											0.30			0.00	0.00				
Jaipur district								0.00											
Jamnagar													0.00	0.00					
Jodhpur													0.00	0.25					
Jorhat													0.00	0.00					
Kakinada													2.00	2.00					
Kangra													0.50	0.00					
Kanpur													0.25	0.00					
Karnal													0.00	0.00					
Kavaratti									0.00				0.00	0.00					
Kohima									0.50					0.75					
Kolhapur													5.00	3.00					
Kota													0.00	0.50					
Kottayam													0.00	0.00					
Leh													0.00	0.00					
Lucknow													0.30	0.00					
Lungei													0.00	0.00					
Madurai			0.00		0.20	0.30							1.00	0.75					
Maharashtra State								0.80											
Mandsaur													0.00	0.50					
Manipur State									0.80	0.50	0.70	1.32			3.90				
Mapura												0.35	1.73	0.50					
Minicoy													1.33	0.00					
Mokoko Chung													0.70	0.76					
Murshidabad														0.00					
Mysore														0.25					
Nagaland State															2.00				
Namakkal													3.25	6.50					
Nancowry													0.00	0.00					
Nasik													2.50	1.75					
Nayagaon													0.00	0.00					
Nazibad													0.00	0.00					
Pakyong													0.00	0.00					
Pasighat												0.25							

Patna												0.00	0.25		
Ponda												0.74	1.00		
Pondicherry														1.00	
Pondicherry (JIPMER)													1.50		
Pondicherry (Maternity Hospital)												0.50	0.25		
Port Blair												0.00	0.00		
Pune								4.30	2.50	3.60		2.25	2.75		
Ranchi												0.00	0.00		
Ratlam												0.00	0.00		
Ratnagiri												0.50	0.75		
Raxaul												0.00	0.00		
Rewa												0.00	0.25		
Rothak district			0.00	0.00	0.00		0.40								
Rourkela														0.25	
Salem												1.00	0.00		
Satara												2.30	3.75		
Shahdol												0.00	0.25		
Shillong												0.25	0.00		
Sholapur												1.00	1.50		
Siliguri												0.62	0.25		
Silvassa												0.00	0.00		
Srinagar												0.00	0.00		
Tamil Nadu State						0.70									
Thodupuzha													0.00		
Thoubal												0.75	2.25		
Thrissaur													0.37		
Tirunelveli													1.25		
Tirupati			0.10	1.00	0.80	1.90									
Tripura State									0.00						
Tuensang												0.70	4.87		
Vellore (CMCH)		0.10	0.10	0.00	0.00	0.00	0.10								

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
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Sex workers	Major Urban Areas	Calcutta				0.50	0.70	1.40	1.60	1.20	11.30	11.90	5.30					
		Delhi	0.00	0.10		0.20												
		Madras		4.50		7.60												
		Mumbai	0.90	8.80	13.20	21.10	33.90	26.60	51.00	51.00		51.00						
	Outside Major Urban Areas	Agra											4.76	11.00				
		Baina													20.00			
		Bhiwadi						33.70										
		Madurai	3.10	1.40	4.90	24.20												
		Pondicherry														3.40		
		Pune	0.50		6.00	21.20	31.60	36.50	46.80	34.90								
		Pune district						23.70										
		Rajkot district			1.80													
		Ratlam							1.00	1.00								
		Sangli district	12.00															
		Surat						18.50										
		Surat district							18.50									
		Tirupati					25.90											
		Ujjain	0.00	0.00	0.00	0.00	0.00	0.00	1.90									
		Vasodagame			4.00	14.00	15.30	28.00	29.00									
		Vellore region	3.70	5.00	8.50	12.50	19.00	25.00	35.00									

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
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Injecting drug users	Major Urban Areas	Calcutta				1.90	1.50		1.20	1.70	3.50							
		Aizwal											0.96	1.60				
	Outside Major Urban Areas	Bangalore													1.20			
		Bishnupur												70.73	41.40			
		Churachandpur							25.40	47.80	55.70	67.10	76.10	68.40				
		Dimapur						52.70		32.00			13.27	7.60				
		Imphal							85.06	61.10	73.30	76.90	70.30	48.80				
		Jampui									0.00							
		Manipur State	0.00	0.00	8.60	39.10	44.80	67.20		55.00								
		Nagaland State								39.00	3.90						8.00	
		Tamil Nadu State								1.50	18.90					29.50		

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
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STI patients, Males/both & females	Major Urban Areas	B/ Calcutta	0.00	0.09	0.03	0.00	0.09	0.13	0.50	0.58	0.86	2.13	5.50		2.39			
		B/ Madras	1.50	2.00	2.50					3.78	5.70	5.21	9.60	8.00	3.60			
		B/ Madras (Standley Med. College)								3.70								
		B/ New Delhi												1.60	0.80			
		B/ New Delhi (Lok Naik Jayaprakash Narayan Hosp.)						3.20										
		B/ New Delhi (Mauland Azad Hospital)							2.40									
		B/ New Delhi (Safdarjung)						0.90	0.80									
		B/Mumbai						13.30				26.70	31.20	58.80				
		B/Mumbai (B.Y.L. Nair Hosp.)							20.90									
		B/Mumbai (Gaurabai)														64.40		
		B/Mumbai (J.J. Hospital)										32.60		34.80	40.00			
		B/Mumbai (K.E.M. Hosp.)							27.90									
		B/Mumbai (KEM Hosp)				3.20	8.60											
		B/Mumbai (Micro, K.E.M.)							23.70									
		B/Mumbai (Pt. of HIV sent. surv. Jan.-Aug.)								13.70								
		B/Mumbai (Sir J.J. Hosp.)								24.90								

B/Mumbai (Sir JJ Hosp)				13.80	16.40	22.80																
B/Mumbai(Balasse Rd. Clin)				0.20	0.20	1.20	3.20															
B/New Delhi				0.10	0.09																	
Delhi (Army hosp. & base hospital)												0.08										
Delhi (Cantonment Board Gen Hosp.)												0.00										
Delhi (Kichipur)												0.00										
Delhi (Mehrauli)												0.00										
M/ Mumbai												31.41										
M/Madras				3.30	5.30	6.10																
M/Mumbai	1.00	9.70	9.90							29.00												
M/Mumbai (Municipal STD clinic)																					32.00	
M/Mumbai (Public STD clinic)																						42.00
Madras				5.00	12.40	13.00																
Mumbai (LTMG Hosp.)																					17.10	9.10
B/ Madurai										6.52	8.60	10.00	22.40	23.20								
B/ Madurai (Microbiology & Virology Ins., Madurai Med. College)	0.29	1.04	1.34	2.49	6.63	6.11	4.85															
B/ Madurai (STD Dept., Gov. Rajaji Hosp.)	0.10	0.34	0.94	2.42	2.76	4.15	5.80															
B/ Pune																					2.80	
B/ Tirupati	0.00	0.82	1.17	1.86	1.70	13.75	6.20	5.75													9.60	
B/Agartala																					0.81	
B/Agra													1.60	0.40								
B/Ahmedabad										4.00	5.90	6.30		3.20	0.40							
B/Aizawl																					0.76	
B/Aizwal											1.30			1.49								
B/Allappuzha																					3.23	
B/Amritsar														0.00	1.60							
B/Aurangabad										3.80	6.70	14.70		13.48	20.00							
B/Bangalore										7.30	7.70			8.40	16.78							
B/Bankura														0.80	0.40							
B/Baroda										11.60	9.30	10.20	19.40									
B/Bhrampur																					4.80	
B/Belgaum														40.32	27.34							
B/Bellary														21.01	14.06							
B/Bhopal											0.00			0.00	0.40							
B/Bhubaneswar														2.86	0.00							
B/Bilaspur														0.00	0.00							
B/Burdwan														0.00	0.44							
B/Car Nicobar											0.00	0.00	0.00									
B/Chandigarh										0.00	0.00	0.50	2.60									
B/Chandigarh (Gen Hosp. Sec. 16)															0.47	1.98						
B/Chandigarh (PGI Chan. Clinic)															0.00	1.56						
B/Chandrapur															4.80	7.20						
B/Churachandpur															2.00	13.20						
B/Coochbihar																2.59						
B/Cuttack											1.00				2.00							
B/Dibrugrah														0.40	0.00							
B/Gangtok										0.00				0.00	0.00							
B/Gaya														0.40	0.00							
B/Gonda														3.26	0.80							
B/Gulbarga														6.00	5.60							
B/Guwahati														3.80	2.44							
B/Gwalior														1.22	0.00							
B/Hubli										20.50	16.90			20.80	23.81							
B/Hyderabad				1.30	2.60					4.70	4.40			34.77	27.60							
B/Imphal										4.80	3.90	8.20	4.80	6.28	10.80							
B/Indore														4.30	2.40							
B/Jaipur										1.40		1.10		6.00	3.20							
B/Jammu														1.84	1.16							
B/Jamnagar										7.50	4.90	1.40										
B/Jodhpur											7.20	5.70	5.40									
B/Kavaratti															0.00							
B/Kohima											3.00			11.11	4.40							
B/Kozhikode														3.20	4.30							
B/Kwichehriat														0.00	0.00							
B/Latur														16.00	15.20							
B/Lucknow														1.20	2.40							
B/Madurai															10.40							
B/Mangalore															15.54							
B/Manipal										1.70												
B/Manipur st.																					12.00	
B/Margao														16.00	5.05							
B/Mysore														12.80	8.40							
B/Nagaland st.																					4.80	
B/Nagpur										6.80	3.30	5.80	11.80	16.00	20.00							
B/Nahan														0.40	0.80							
B/Naharlagun														0.00	0.00							
B/Pasighat														0.00	0.00							
B/Patiala														0.00	2.44							
B/Patna															0.80							
B/Pondicherry										4.60	5.00	5.30		7.20	2.00							
B/Pondicherry (JIPMER)															9.60							
B/Pondicherry (State AIDS cell)															2.00							
B/Port Blair										1.30	0.00	0.00		1.27	0.40							

B/Pune	0.20	1.40	3.00	4.80													6.80	
B/Puri																	0.40	
B/Raipur																	3.96	0.00
B/Ranchi																	1.35	0.40
B/Raxaul																		3.56
B/Raxual																	1.61	
B/Rohtak																	2.56	5.26
B/Sangli																	50.25	44.80
B/Shillong										0.00							0.00	0.00
B/Simla										0.00	0.30	0.00					0.39	0.39
B/Surat										13.90	19.40	19.30	20.60				1.79	13.04
B/Tiruchirapally																	16.30	34.80
B/Tirupati										6.30								30.00
B/Trivandrum																	3.88	1.97
B/Udaipur																	4.40	3.20
B/Varanasi																	1.60	2.00
B/Vasodagame										12.60	21.70	16.40					22.83	21.89
B/Visakhapatnam										7.80							21.60	29.51
M/ Madurai										4.20								
M/ Pune										4.20								
M/ Pune (Sasson Hosp.)										9.00								
M/ Vellore	0.80	0.60	1.60	1.80	2.40	4.20	2.99											
Pune (Sasson Hosp.)					4.50	9.50												
Vellore	0.00	0.00	2.58	0.60	1.61	3.04	1.52											
Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
Men having sex with men	Major Urban Areas						1.10											
	Outside Major Urban Areas						20.30											
			0.40															
			0.00															
		0.00																

Additional data

Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Blood donors																
Group	Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Tuberculosis patients	Major Urban Areas						0.00	0.00	1.00	0.50	3.20	3.40				
		0.00		0.00		0.40	0.80				1.50	2.90				
			2.40	2.30	3.90	7.90	10.60	10.60	11.00	10.70	16.80	23.00	30.00	33.00		
	Outside Major Urban Areas															
								0.00								
									3.20				14.80			
											15.70	21.40	11.20			
								3.20								
								11.50	4.00	6.20	11.90					
										5.20					20.10	
													6.00	2.80		
										3.20						
						0.70	0.90									
							2.50		14.30	12.10	18.50	21.50				
								1.00					17.60	16.40		
						0.80										
					0.00					2.30	3.60	4.40	7.00	9.60		
								1.30								
						4.50										
						2.00										