Sexually Transmitted Disease Surveillance 2001 Supplement

Chlamydia Prevalence Monitoring Project Annual Report 2001

Division of STD Prevention
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Centers for Disease Control and Prevention
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Chlamydia Prevalence Monitoring Project
Annual Report – 2001

The Centers for Disease Control and Prevention's (CDC) Chlamydia Prevalence Monitoring Project is a collaborative effort among the Regional Infertility Prevention Projects, STD project areas, state epidemiologists and public health laboratory directors, the U.S. Department of Labor, and the Indian Health Service (IHS). The purpose of the project is to monitor the prevalence of genital *Chlamydia trachomatis* infections among women screened for this infection in the United States through publicly-funded programs. The data presented on chlamydial infection in this report complement and supplement data presented in CDC's 2001 STD Surveillance Report.[1]

Introduction

Since 1988, CDC has supported screening programs for *Chlamydia trachomatis* infections in women and has monitored positivity to evaluate program impact. As documented by chlamydia case reporting (i.e., morbidity) data, case rates following initiation of chlamydia screening and treatment programs have resulted in initial increases in cases detected and reported. To minimize the impact of variation in chlamydia testing and reporting on the interpretation of surveillance data, CDC, states, and Regional Infertility Prevention Projects use screening positivity data to estimate chlamydia prevalence among selected populations. This report compares data on chlamydia prevalence in selected populations with data reported to CDC through the case reporting system.

Sources of Data

Regional Infertility Prevention Projects

Chlamydia screening and prevalence monitoring activities were initiated in Health and Human Service (HHS) Region X in 1988 as a CDC-supported demonstration project. In 1993, as part of the development of the National Infertility Prevention Program, chlamydia screening services for women were initiated in three additional HHS regions (III, VII, VIII) and in 1995 services were implemented in the remaining HHS regions (I, II, IV, V, VI, IX).[2,3] All regional projects, in collaboration with state STD control and family planning programs, report their chlamydia positivity data to CDC. In some of the HHS regions, federally-funded chlamydia screening supplements existing local- and state-funded testing programs. These publicly-funded programs support chlamydia screening primarily in family planning clinics, but also in some STD clinics, prenatal clinics, jails and juvenile detention centers, and other sites.

The ten Health and Human Services (HHS) regions referred to in the text and figures are as follows: Region I = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Region II = New Jersey, New York, Puerto Rico, and U.S. Virgin Islands; Region III = Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia; Region IV = Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee; Region V = Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; Region VI = Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; Region VII = Iowa, Kansas, Missouri, and Nebraska; Region VIII = Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming; Region IX = Arizona, California, Hawaii, and Nevada; and Region X = Alaska, Idaho, Oregon, and Washington.

State and Local Health Departments

As of 2000, all 50 states and the District of Columbia have regulations requiring the reporting of chlamydia cases to CDC.

Corrections Facilities

In 2001, 10 states reported STD prevalence data from persons entering jails and juvenile detention facilities as part of the Jail STD Prevalence Monitoring Project. Four states reported chlamydia data from corrections facilities as part of the Adolescent Women Reproductive Health Monitoring Project. Twenty-two states reported chlamydia data from corrections facilities as part of the Regional Infertility Prevention Projects.

National Job Training Program

Since 1990, approximately 20,000 female National Job Training Program entrants have been screened each year for chlamydia, with all tests performed at a central laboratory using a single

test type.[4] Changes in laboratory and test type (EIA to DNA probe) occurred in mid-1997. The National Job Training Program, administered by the U.S. Department of Labor, is primarily a residential job training program for urban and rural disadvantaged youth aged 16 to 24 years at more than 100 sites throughout the country. The U.S. Department of Labor makes these chlamydia test results available to CDC to calculate prevalence in this population.

Indian Health Service

In 2001, approximately 38,000 women aged 15 to 30 years were screened at 86 facilities in four of 12 Indian Health Service (IHS) areas. The Indian Health Service provided these data to CDC.

The 12 Indian Health Service (IHS) areas referred to in the text and figures are as follows, with overlap in some states: Aberdeen Area (Iowa, North Dakota, Nebraska, and South Dakota); Alaska Area (Alaska); Albuquerque Area (Colorado and New Mexico); Bemidji Area (Illinois, Indiana, Michigan, Minnesota, and Wisconsin); Billings Area (Montana and Wyoming); California Area (California); Nashville Area (Alabama, Connecticut, Florida, Louisiana, Maine, Maryland, Massachusetts, Mississippi, New York, North Carolina, Rhode Island, South Carolina, and Tennessee); Navajo Area (Arizona, New Mexico, and Utah); Oklahoma City Area (Kansas, Oklahoma, and Texas); Phoenix Area (Arizona, Nevada and Utah); Portland Area (Idaho, Oregon, and Washington); and Tucson Area (Arizona).

Data Limitations

The interpretation of chlamydia data is complicated by several factors. First, case reports and prevalence data result from the use of several different types of diagnostic tests for chlamydial infection (e.g., direct fluorescent antibody, EIA, DNA probe assay, DNA amplification); these tests vary in their sensitivity and specificity. Second, chlamydia positivity among women attending clinics is an estimate of prevalence; it is not true prevalence. Crude positivity may include those women who are tested two or more times during a single year. Comparisons of positivity with prevalence have shown that in family planning clinics, positivity is generally similar to or slightly higher than prevalence, and in STD clinics, positivity is somewhat lower than prevalence; however, these differences are usually small, with the relative difference <10%.[5] Third, while nearly all family planning clinics perform universal screening of sexually active women <20 years of age, and most clinics do so among women <25 years of age, some selective screening is performed among women 20-24 years old and some level of screening is frequently performed among women ≥25 years of age. Fourth, while monitoring prevalence among persons seeking care at clinics provides important information on certain segments of the population, these data cannot be generalized to the population as a whole.

The data from the National Job Training Program are an exception to the first three caveats. All tests are performed using a single test type. Data are limited to entrance exam testing; therefore, no women are included twice. All women entering the National Job Training Program are required to be tested.

As noted above, various laboratory test methods were used for all data. Except for Figure 4, the figures presented do not include an adjustment of test positivity based on laboratory test type and sensitivity. In Figure 4, the chlamydia test results for each test type were weighted to reflect the sensitivity of the test used.[6,7] Test-specific sensitivities were defined as the midpoints of the ranges of published values for the sensitivities for each technology type.[7] Limitations of this adjustment include unknown dates when laboratories changed tests, missing information on the type of test used, variation of test sensitivity within a technology type and between laboratories, and no adjustment for use of supplemental methods that could increase test sensitivity.

Chlamydia Data Reported In 2001

Case reports

In 2001, 783,242 chlamydial infections were reported to CDC from 50 states and the District of Columbia. The reported number of cases of chlamydial infection was about two times greater than the reported cases of gonorrhea (361,705 gonorrhea cases were reported in 2001). From 1987 through 2001 the reported rate of chlamydial infection among women increased from 78.5 cases per 100,000 population to 435.2 (Figure 1). These increases in the reported national chlamydia rate likely represent increased chlamydia screening, increased use of nucleic acid amplification tests which are more sensitive than other types of screening tests, and improved reporting, as well as the continuing high burden of disease.

In 2001, state- and outlying area-specific chlamydia rates among women ranged from 117.1 per 100,000 to 697.3 per 100,000 (Figure 2). This variation in rates reflects both state-specific differences in screening and reporting practices, and in true disease burden.

Chlamydia positivity among women in family planning and prenatal clinics

In 2001, the median state-specific chlamydia test positivity among 15- to 24-year-old women who were screened at selected family planning clinics in all states, the District of Columbia, Puerto Rico, and the Virgin Islands was 5.6% (range, 2.7% to 13.9%, Figure 3).

The effectiveness of large-scale screening programs in reducing chlamydia prevalence has been well documented in areas where this intervention has been in place for several years.[8,9] In 2001, after adjusting trends in chlamydia positivity to account for changes in laboratory test methods and associated increases in test sensitivity,[10] chlamydia test positivity decreased in five of 10 HHS regions from 2000 to 2001, increased in four regions, and remained the same in one region (Figure 4). Although chlamydia positivity has declined in the past year in some regions due to the effectiveness of screening and treatment of women, continued expansion of screening programs to populations with higher disease prevalence may have contributed to the increases in positivity in other regions.

In 2001, the median state-specific chlamydia test positivity among 15- to 24-year-old women screened in selected prenatal clinics in 22 states and Puerto Rico was 7.4% (range, 3.7% to 13.5%, Figure 5).

Chlamydia prevalence among female National Job Training Program entrants

Among women entering the National Job Training Program in 2001, based on their place of residence before program entry, state-specific chlamydia prevalence ranged from 5.1% to 18.0% in 26 states and Puerto Rico (Figure 6). The median state-specific chlamydia prevalence was 10.6%.

Chlamydia positivity among women entering juvenile and adult corrections facilities

Data on positivity of chlamydial infection among women entering juvenile or adult corrections facilities were reported to CDC from 22 states (Figure 7). Among adolescent women entering juvenile detention facilities, the median facility positivity for chlamydia was 14.8% (range 4.0% to 25.8%); positivity was greater than 10% in 19 of 24 facilities (79%) reporting data. Among adult women entering 23 corrections facilities, the median positivity for chlamydia was 4.1% (range 0.5% to 11.0%).

Chlamydia positivity among women attending Indian Health Service clinics

In 2001, chlamydia positivity among 15- to 30- year-old women screened at clinics in four IHS areas ranged from 3.1% to 10.0% (Figure 8).

Notes on State-Specific Data

Morbidity Surveillance: Reporting of Chlamydia Cases

Figure A. Chlamydia rate per 100,000 women, 1992 - 2001.

Crude incidence rates (new cases/population) were calculated on an annual basis per 100,000 population. In this report, the 2001 rates for all states were calculated by dividing the number of cases reported from each area in 2001 by the estimated area-specific 2000 population. Rates for 1992-2001 were calculated using postcensal population estimates based on the Bureau of the Census data (U.S. Bureau of the Census; 1991-2000 Estimates of the Population of Counties by Age, Sex and Race/Hispanic Origin: 1990 to 2000; machine-readable data files).

Prevalence Monitoring: Reporting of Chlamydia Positivity

Figure B. Chlamydia positivity among women 15 to 24 years of age, by testing site, 1990-2001; Table 1. Chlamydia positivity among women 15 to 44 years of age by testing site, 2001; Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001.

Chlamydia test positivity data are presented from those states reporting results on 500 or more women screened during 2001. Chlamydia test positivity was calculated by dividing the number of women testing positive for chlamydia (numerator) by the total number of women tested for chlamydia (denominator includes those with valid test results only and excludes unsatisfactory and indeterminate tests) and was expressed as a percentage. The denominator may contain multiple tests from the same individual if that person was tested more than once during the period for

which screening data are reported. Various chlamydia laboratory methods were used and no adjustments of test positivity were made based on laboratory test type and sensitivity. Chlamydia prevalence data on female National Job Training Program entrants are not presented when the number of persons tested from a state was fewer than 100. The number of clinics cited in Table 1 (state profile) for each state represents family planning (FP), sexually transmitted disease (STD), prenatal, Indian Health Service (IHS), and other clinics screening 25 or more women and juvenile and adult corrections facilities screening 100 or more women.

References

[1]Centers for Disease Control and Prevention. *Sexually Transmitted Disease Surveillance, 2001*. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, September 2002.

[2]Hillis S, Black C, Newhall J, Walsh C, Groseclose SL. New opportunities for chlamydia prevention: applications of science to public health practice. *Sex Transm Dis* 1995;22:70-5.

[3]Centers for Disease Control and Prevention. *Chlamydia trachomatis* genital infections - United States, 1995. *MMWR* 1997;46:193-8.

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[5]Dicker LW, Mosure DJ, Levine WC. Chlamydia positivity versus prevalence: what's the difference? *Sex Transm Dis* 1998;25:251-3.

[6]Newhall WJ, DeLisle S, Fine D, et al. Head-to-head evaluation of five different non-culture chlamydia tests relative to a quality-assured culture standard. *Sex Transm Dis* 1994;21:s165-6.

[7]Centers for Disease Control and Prevention. Screening tests to detect *Chlamydia trachomatis* and *Neisseria gonorrhea* Infections - 2002. (In press).

[8]Addiss DG, Vaugh ML, Ludka D, Pfister J, Davis JP. Decreased prevalence of Chlamydia trachomatis infection associated with a selective screening program in family planning clinics in Wisconsin. *Sex Transm Dis* 1993;20:28-35.

[9]Mertz KJ, Levine WC, Mosure DJ, Berman SM, Dorian KJ. Trends in the prevalence of chlamydial infections: the impact of community-wide testing. *Sex Transm Dis* 1997;24:169-75.

[10]Dicker LW, Mosure DJ, Levine WC, Black CM, Berman SM. Impact of switching laboratory tests on reported trends in *Chlamydia trachomatis* infections. *Am J Epidemiol* 2000;151:430-5.

Acknowledgments

This report would not have been possible without the contributions of the State and Territorial Health Departments, the STD Control Programs, the Regional Infertility Prevention Projects, the Office of Population Affairs, the Jail STD Prevalence Monitoring Project, the Adolescent Women Reproductive Health Monitoring Project, the Indian Health Service, and the U.S. Department of Labor which provided surveillance data to the Centers for Disease Control and Prevention.

This report was prepared by the following staff members of the Surveillance and Special Studies Section of the Epidemiology and Surveillance Branch and the Statistics and Data Management Branch of the Division of STD Prevention, National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention: Susan Bradley, Jim Braxton, Sharon Clanton, Darlene Davis, Linda Webster Dicker, LaZetta Grier, Kathleen Hutchins, Richard Kahn, Debra Mosure, Michael Phillips, and Emmett Swint.

Figure 1. Chlamydia — Rates by gender: United States, 1984–2001

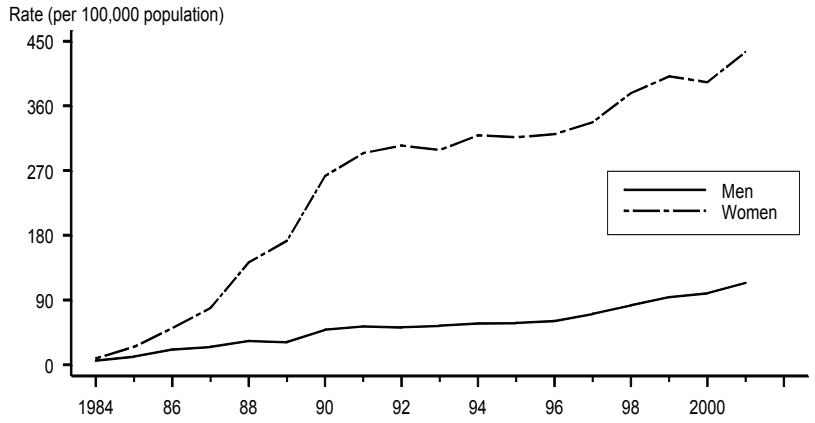
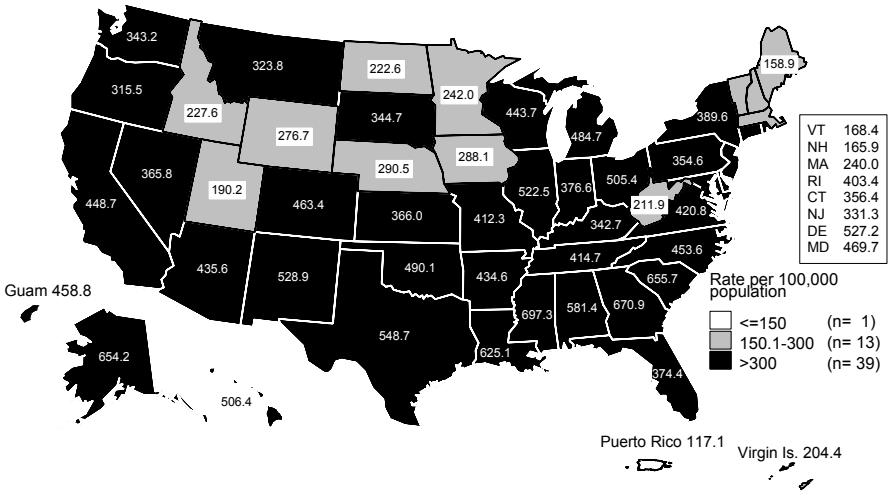
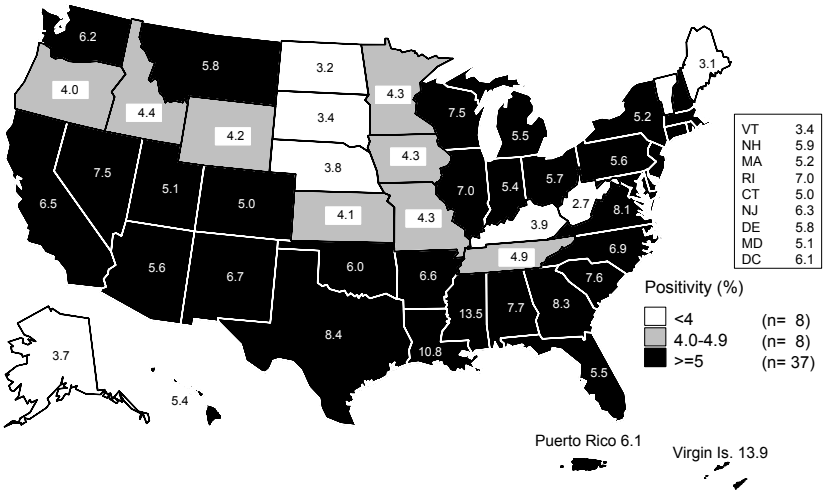


Figure 2. Chlamydia — Rates for women: United States and outlying areas, 2001



Note: The total rate of chlamydia for women in the United States and outlying areas (including Guam, Puerto Rico and Virgin Islands) was 430.8 per 100,000 population.

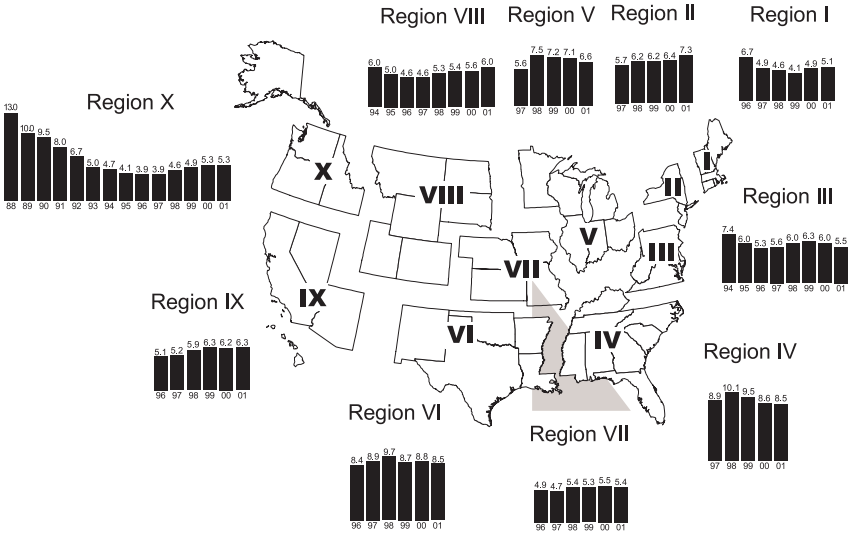
Figure 3. Chlamydia — Positivity among 15-24 year old women tested in family planning clinics by state, 2001



Note: States reported chlamydia positivity data on at least 500 women aged 15-24 years screened during 2001.

SOURCE: Regional Infertility Prevention Programs; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

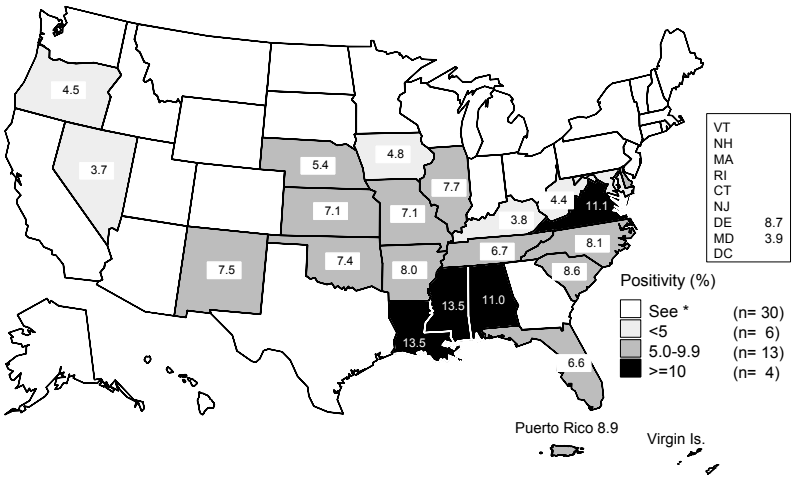
Figure 4. Chlamydia — Trends in positivity among 15-44 year old women tested in family planning clinics by HHS regions, 1988–2001



Note: Trends adjusted for changes in laboratory test method and associated increases in test sensitivity. No data on laboratory test method available for Region VII in 1995 and Regions IV and V in 1996.

SOURCE: Regional Infertility Prevention Programs; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

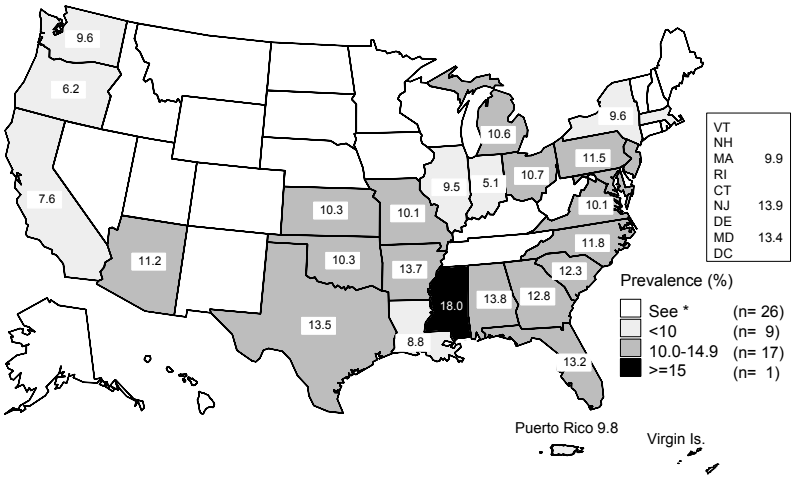
Figure 5. Chlamydia — Positivity among 15-24 year old women tested in prenatal clinics by state, 2001



*States not reporting chlamydia positivity data in prenatal clinics.
Note: States reported chlamydia positivity data on at least 100 women aged 15-24 years during 2001.

SOURCE: Regional Infertility Prevention Programs; Office of Population Affairs; Local and State STD Control Programs; Centers for Disease Control and Prevention

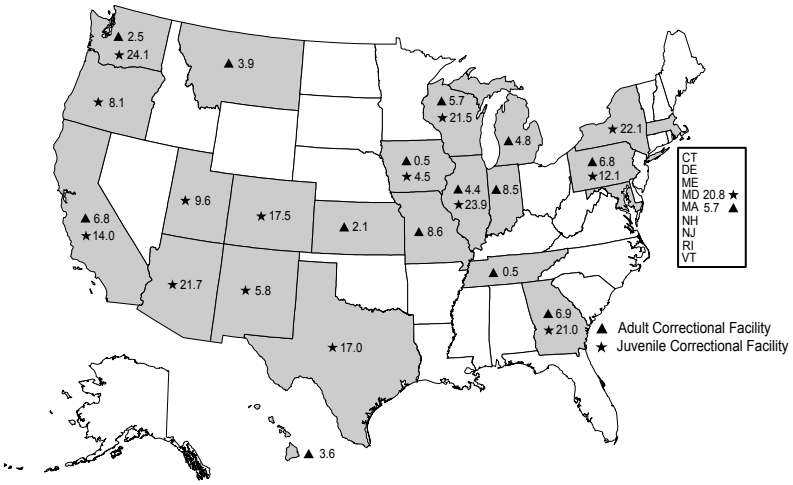
Figure 6. Chlamydia — Prevalence among 16-24 year-old women entering the National Job Training Program by state of residence, 2001



*Fewer than 100 women residing in these states and entering the National Job Training Program were screened for chlamydia in 2001.
Note: The median chlamydia prevalence among female students entering the National Job Training Program in 2001 was 10.6%.

SOURCE: U.S. Department of Labor

Figure 7. Chlamydia — Positivity in women entering juvenile and adult corrections facilities, 2001



Note: The median positivity is presented from facilities reporting >100 test results. Hawaii, Kansas, Pennsylvania, Massachusetts and Wisconsin submitted data from more than one adult corrections facility. California, Texas, Utah, and Wisconsin submitted data from more than one juvenile corrections facility.

SOURCE: Local and State STD Control Programs; Regional Infertility Prevention Programs; Centers for Disease Control and Prevention

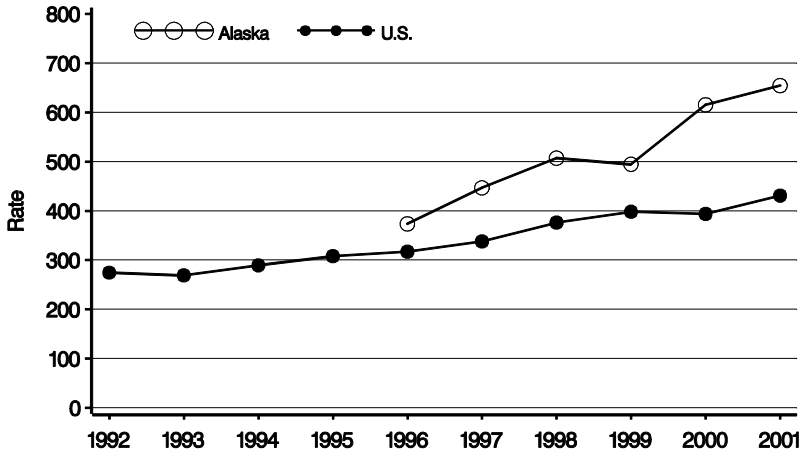
Figure 8. Chlamydia — Positivity among 15-30 year old women tested in Indian Health Service Clinics by IHS areas, 2001

*IHS regions not reporting chlamydia positivity data during 2001.
Note: Albuquerque Area - chlamydia positivity data reported for January-October only.

SOURCE: Indian Health Service

Alaska – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: No data were reported in 1992–1995.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

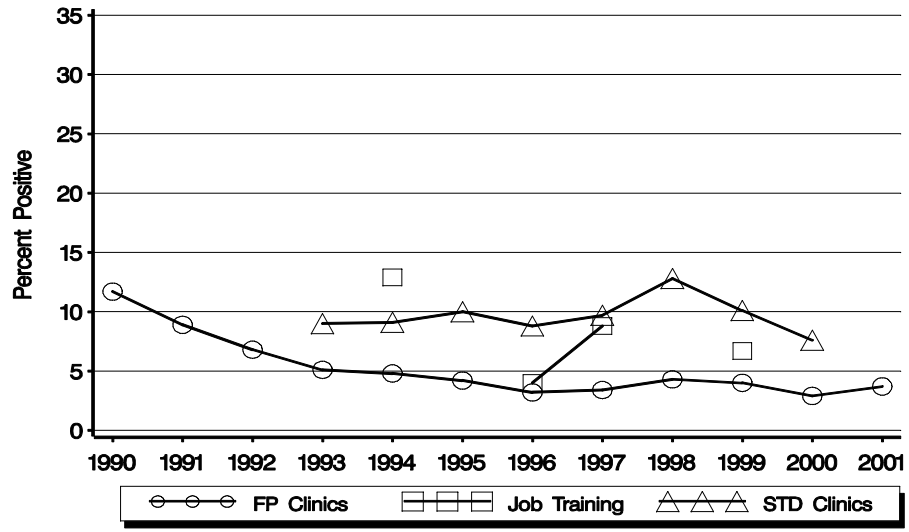
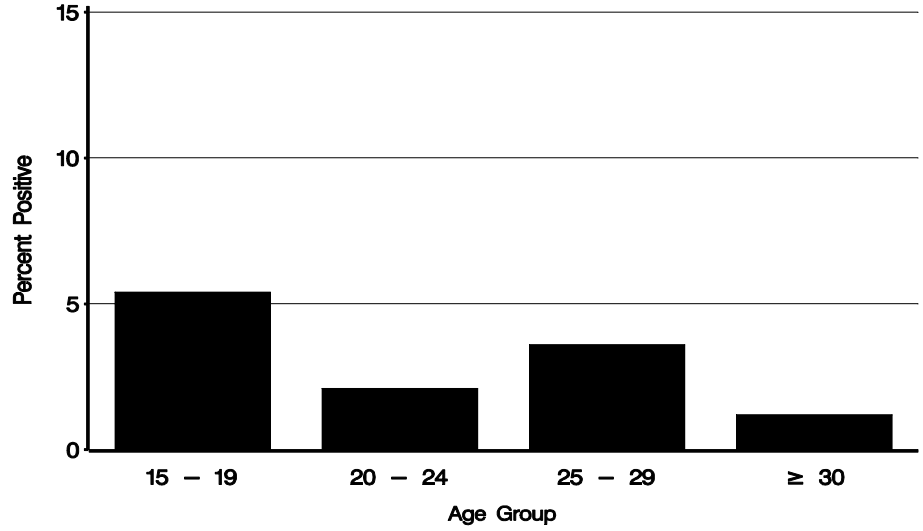


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

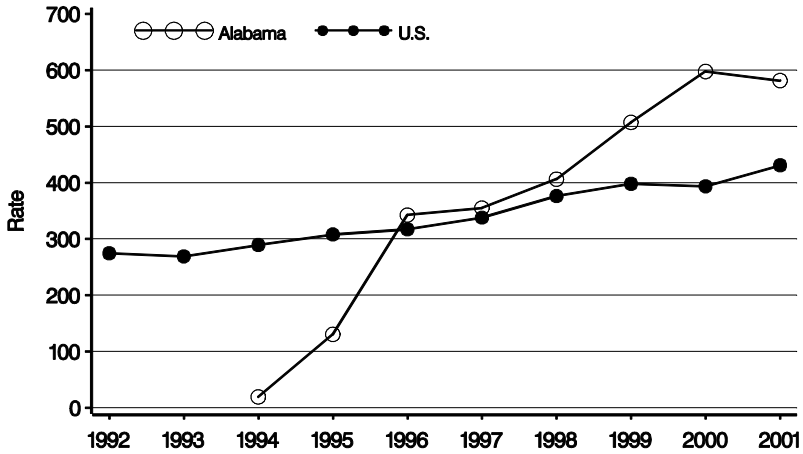
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	4	1743	3.3
STD	NA	NA	NA
Other	18	6779	4.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Alabama – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: No data were reported in 1992–1993.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

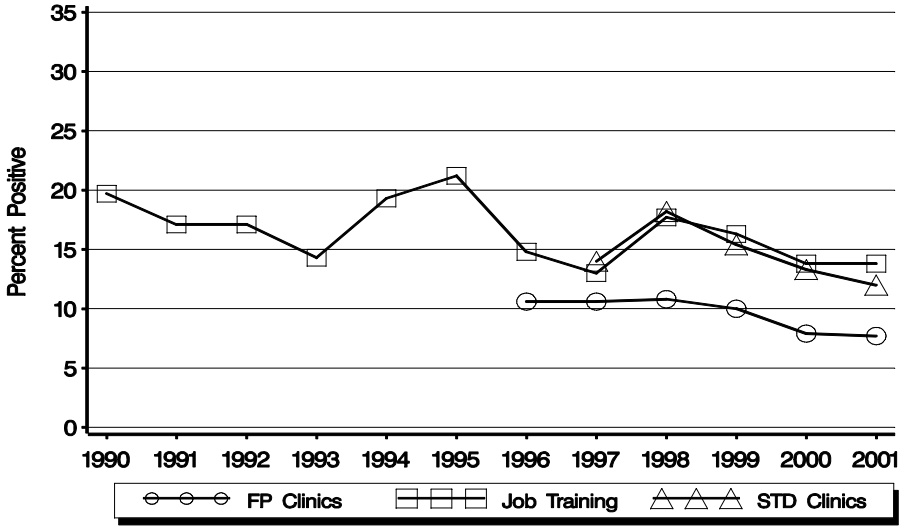
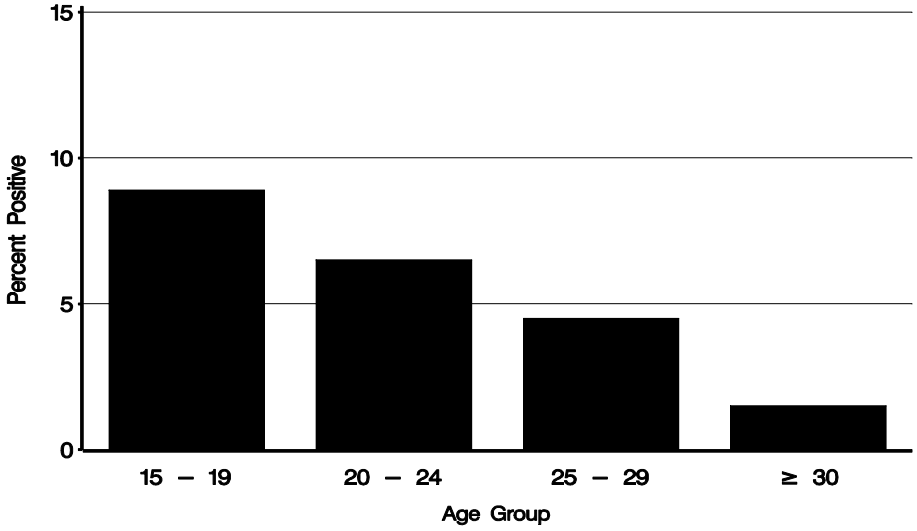


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	68	36549	6.7
STD	46	8490	8.9
Prenatal	6	1144	9.2
Other	9	1260	4.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Arkansas – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

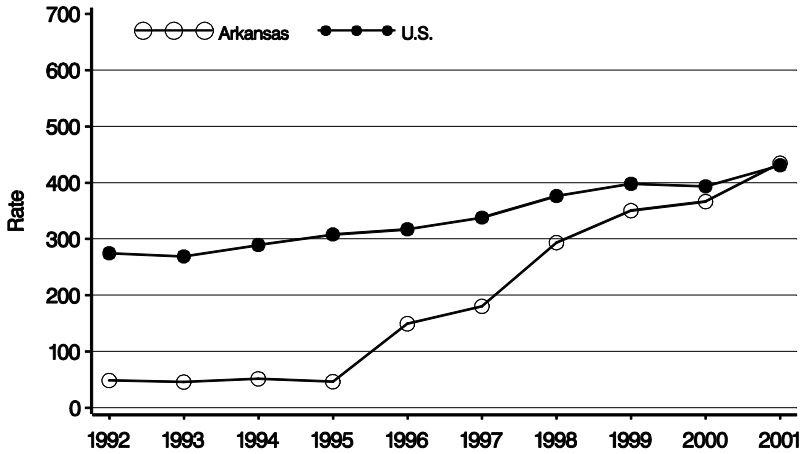


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

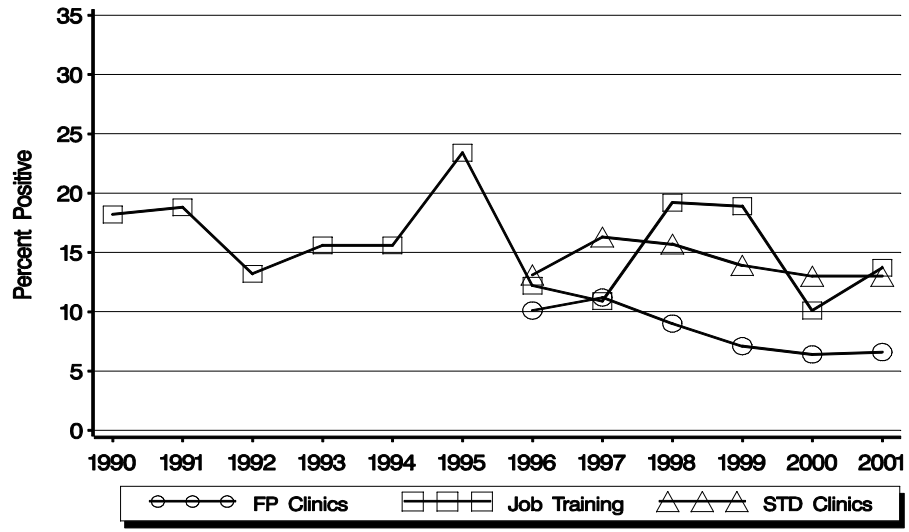
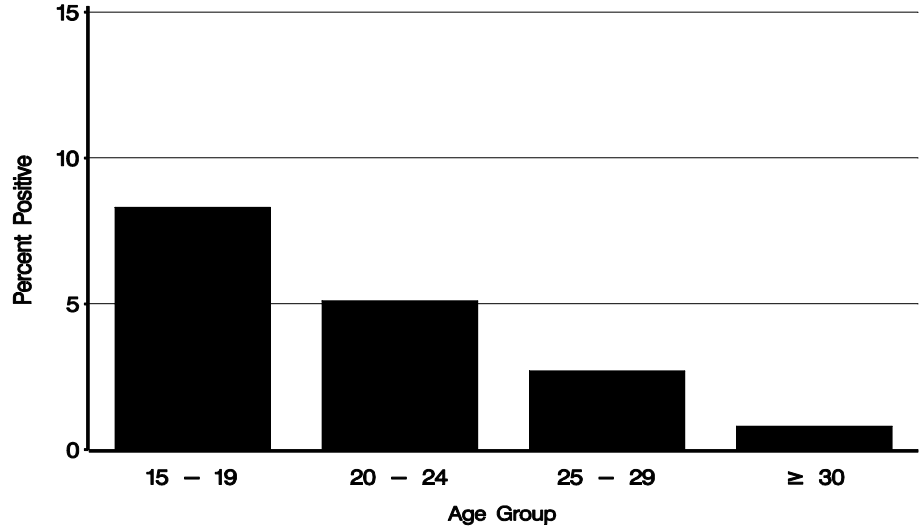


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	99	50009	4.6
STD	41	6692	9.8
Prenatal	52	6960	6.2
Other	2	221	4.5

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Arizona – 2001

Figure A. Chlamydia rate per 100,000 women, 1992 – 2001

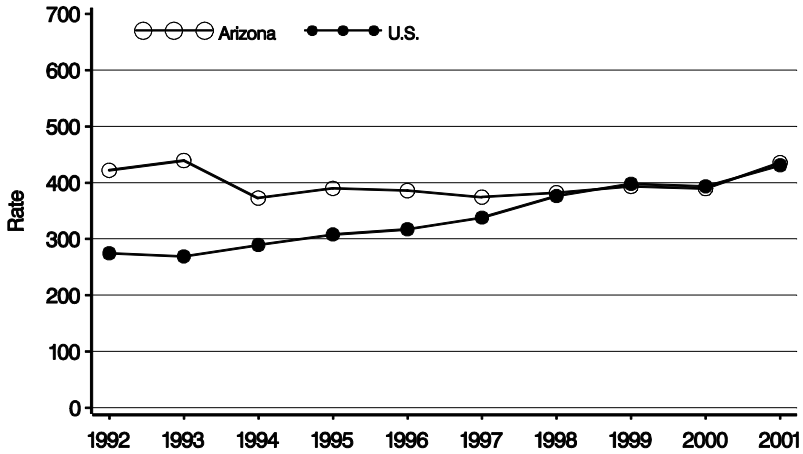


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990 – 2001

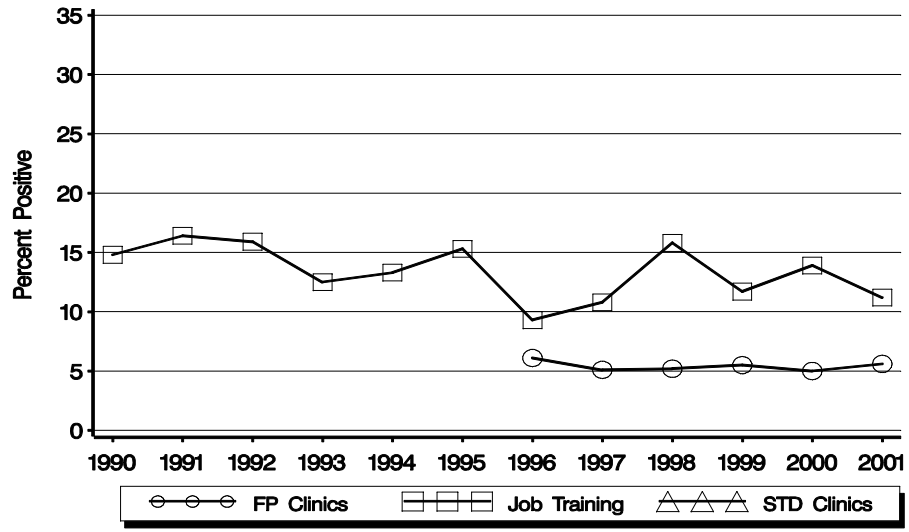
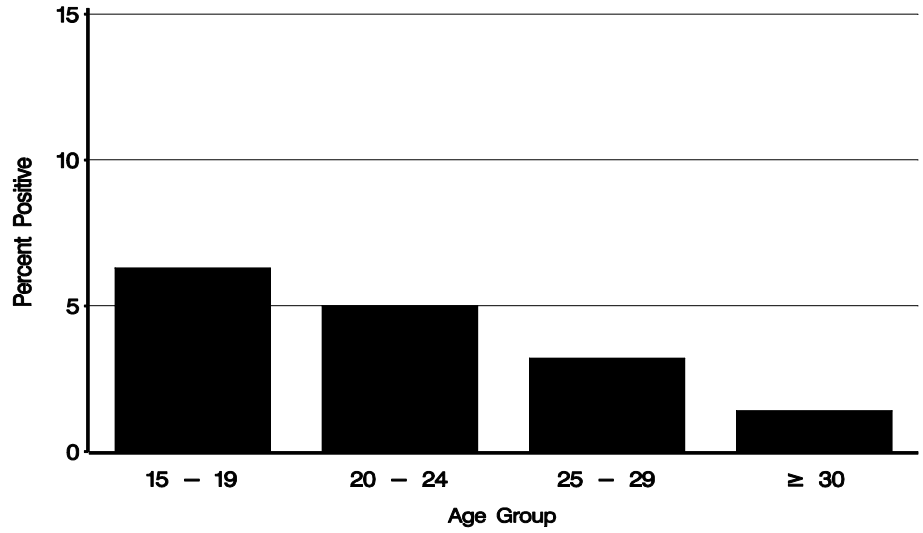


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

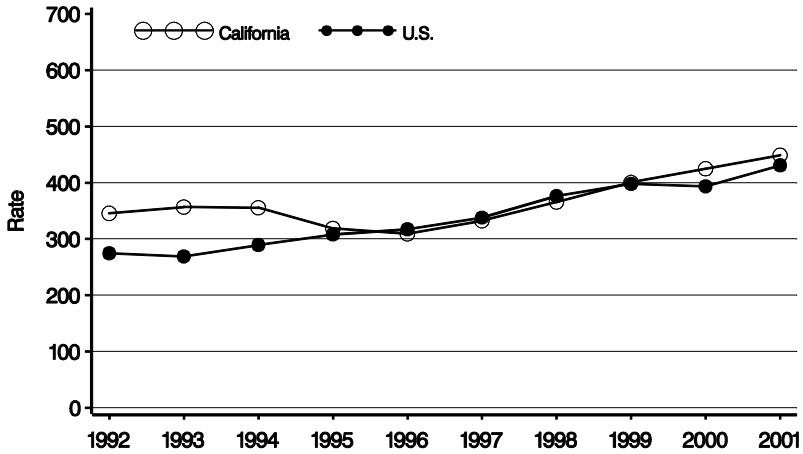
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	13	9471	4.9
STD	NA	NA	NA
Juvenile Detention	1	306	21.7
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



California – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: Gender unknown for 32.4% in 1995.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

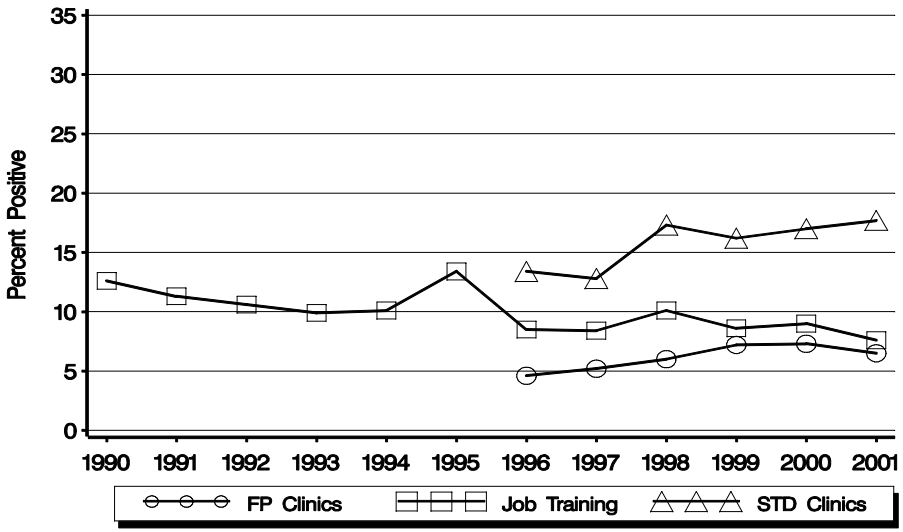
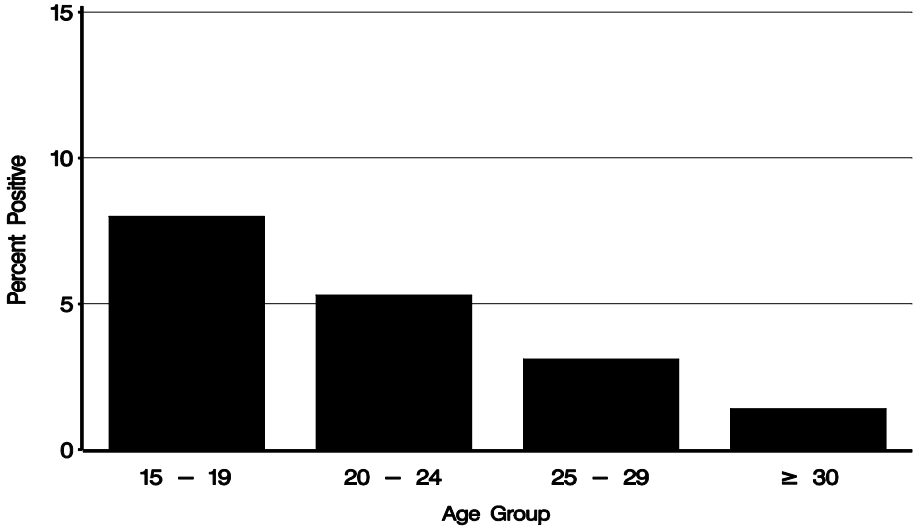


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

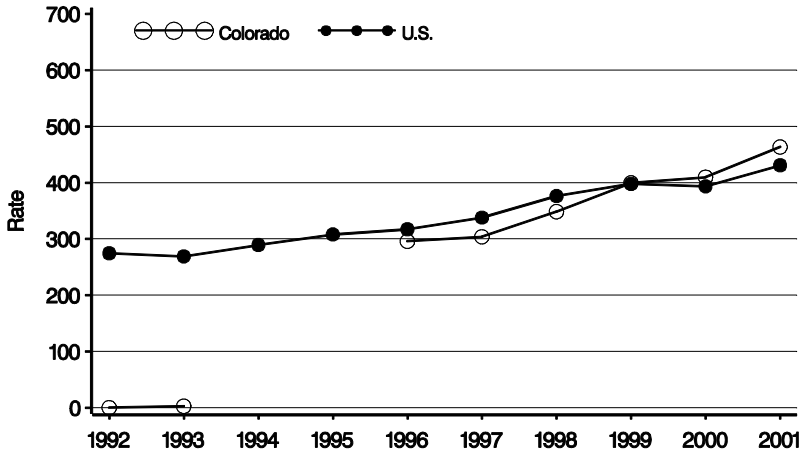
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	29	24656	4.5
STD	15	14071	10.5
Adult Corrections	1	1714	6.8
Juvenile Detention	6	10772	14.0
Other	11	2868	5.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Colorado – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: Insufficient data were reported in 1992–1993.
Cases were not reported by gender in 1994–1995.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

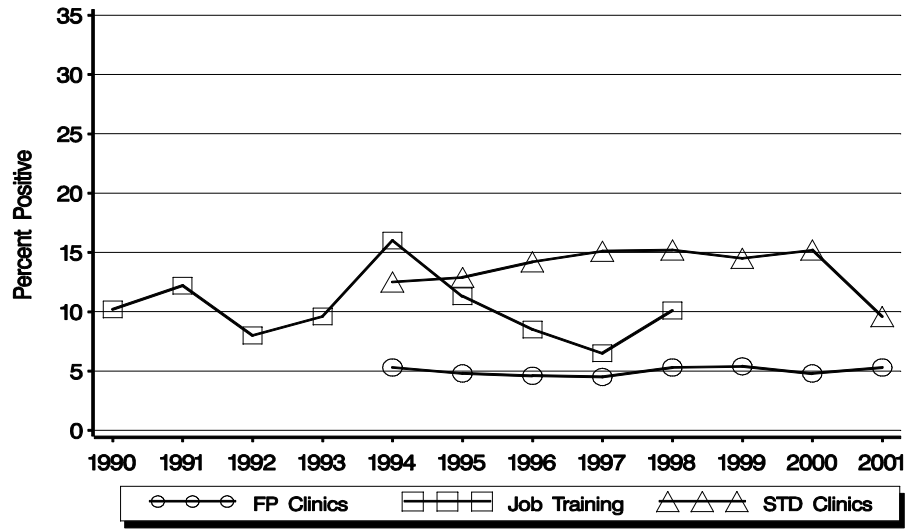
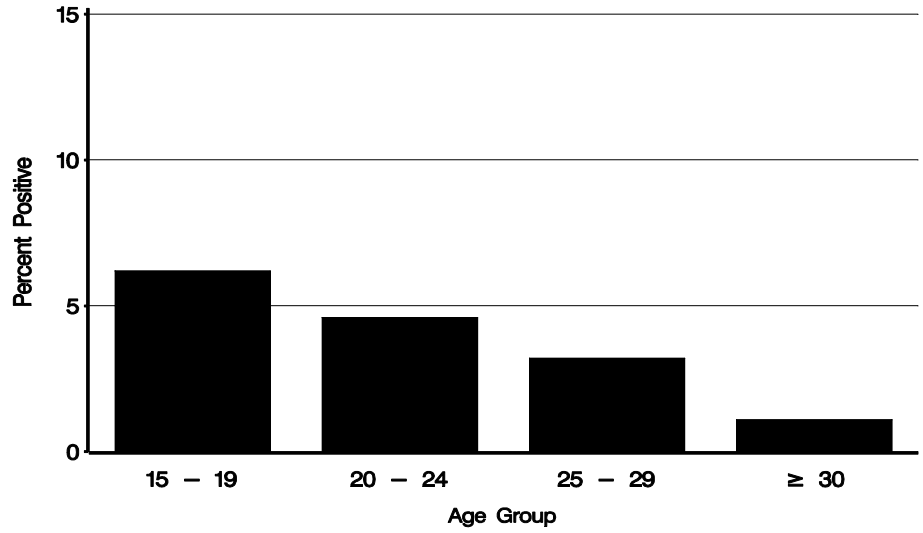


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	49	25822	4.5
STD	7	6989	7.1
Juvenile Detention	1	212	17.5
Other	5	2089	6.8

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Connecticut – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

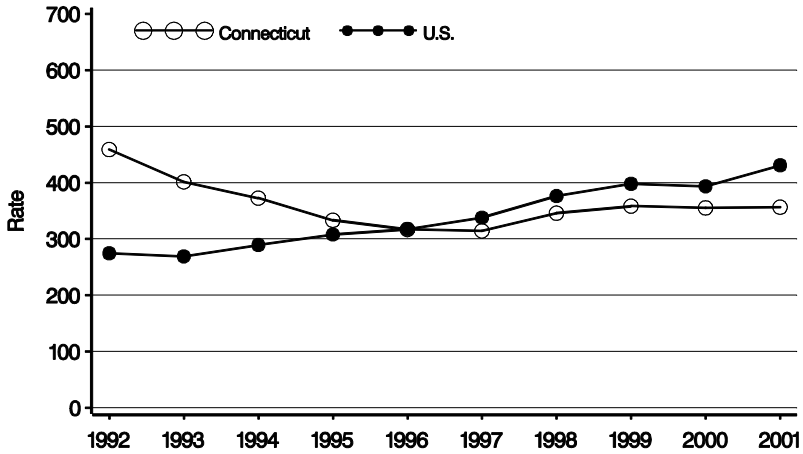


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

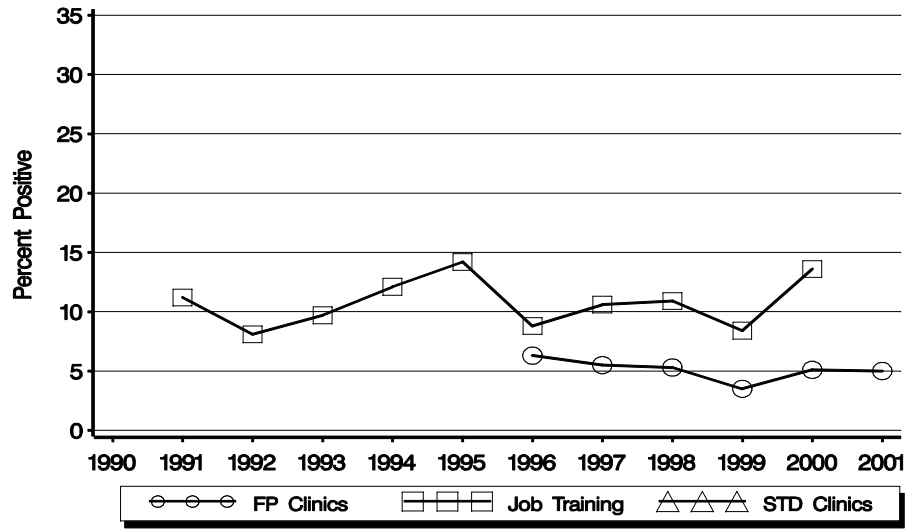
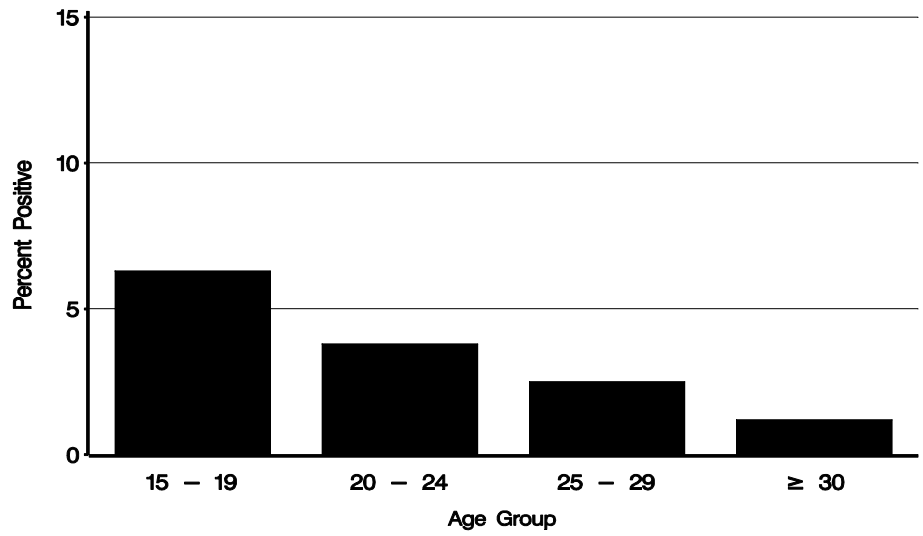


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	12	8419	3.9
STD	NA	NA	NA
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Washington, DC – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

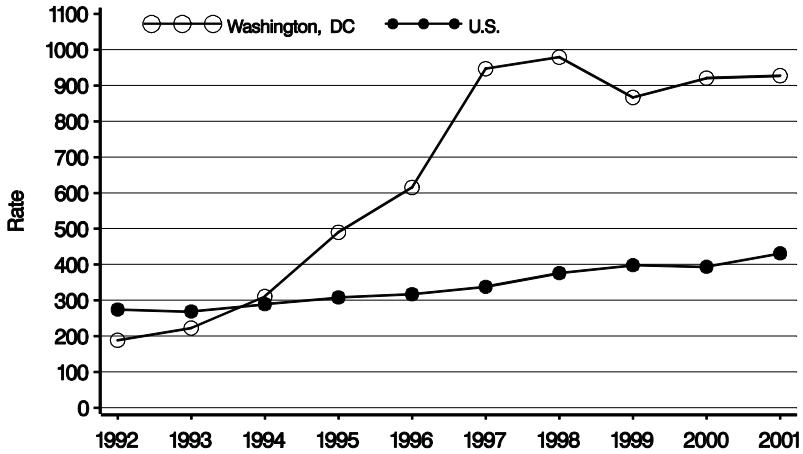


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

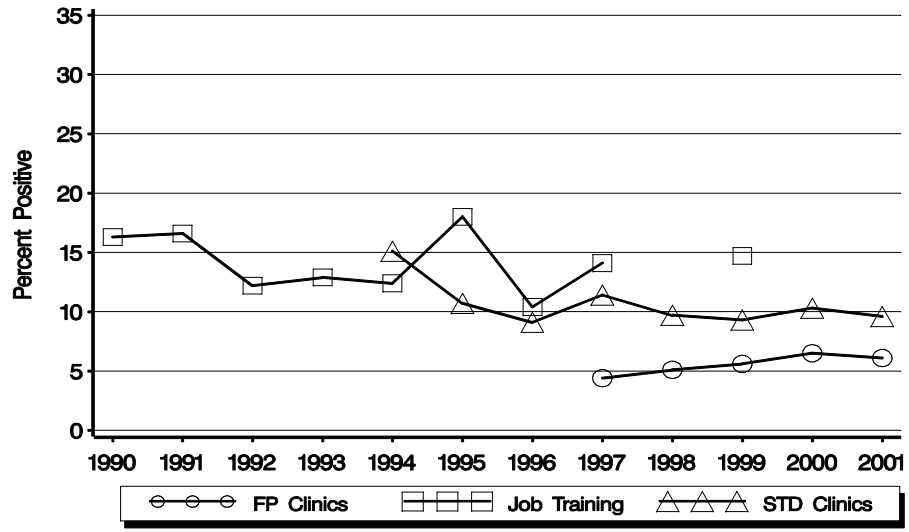
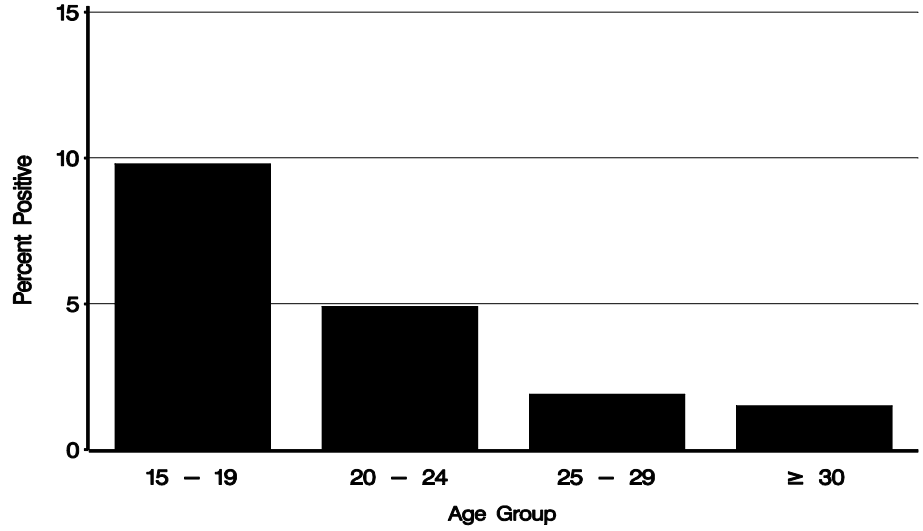


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	4	3542	3.8
STD	1	2333	5.6
Other	4	582	2.2

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Delaware – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

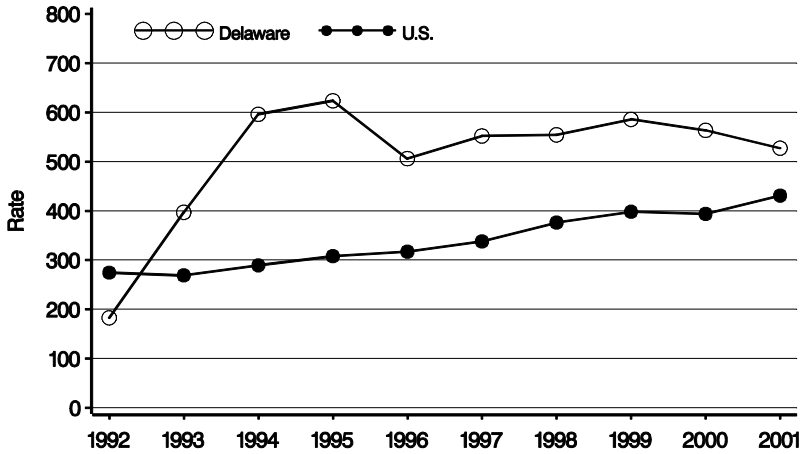


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

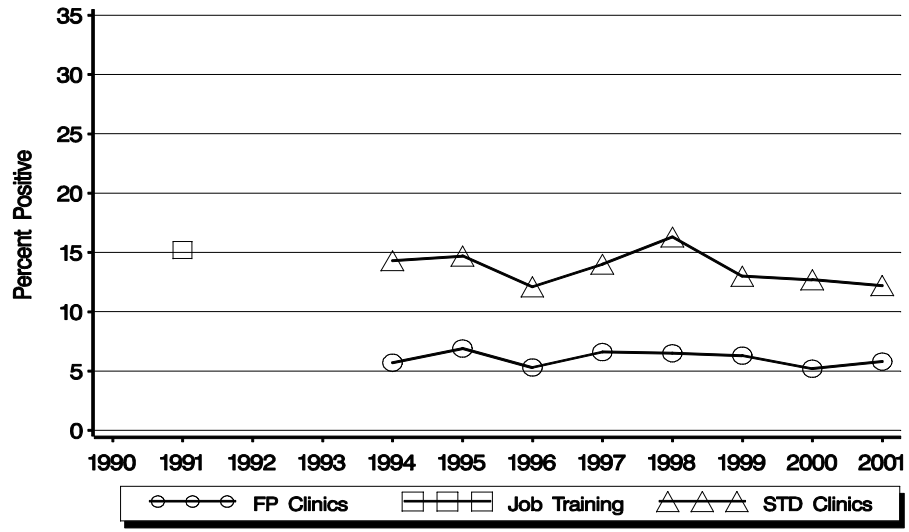
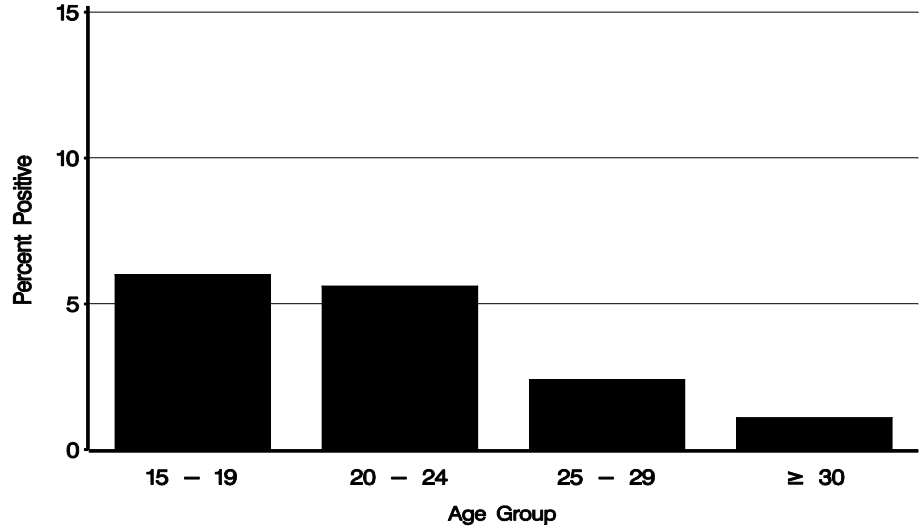


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

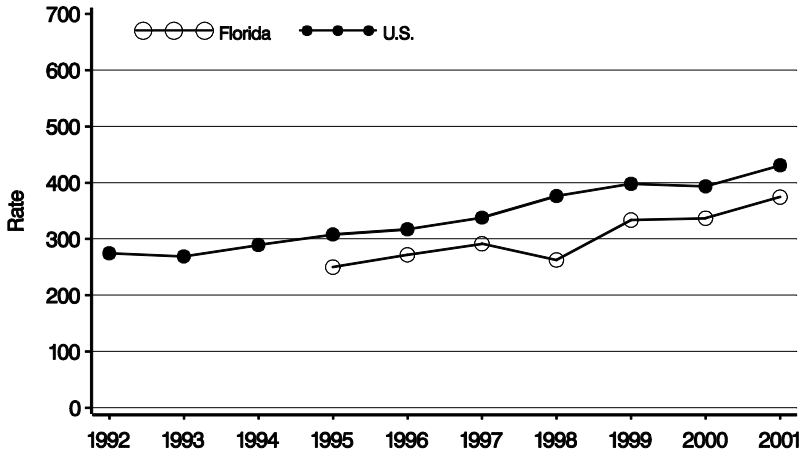
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	11	9434	4.3
STD	3	980	8.5
Prenatal	1	672	4.3
Other	7	3430	6.2

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Florida – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: No data reported in 1992–1994.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

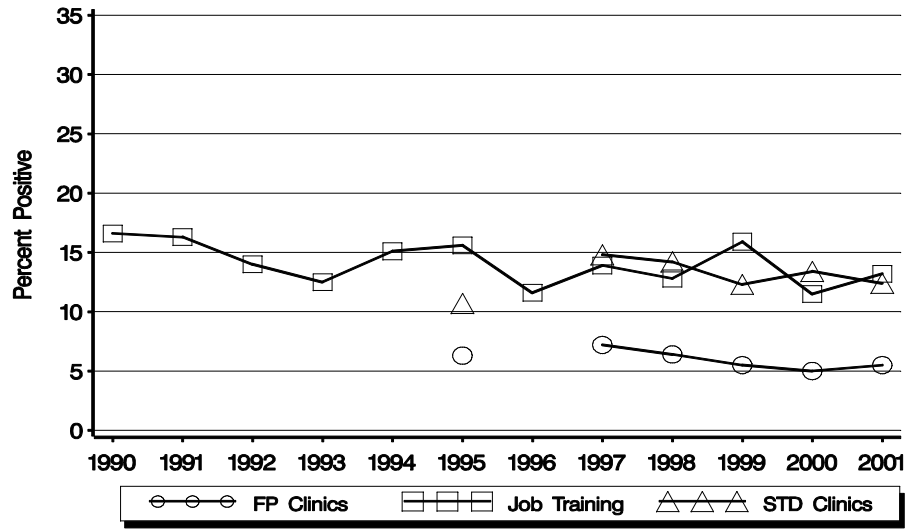
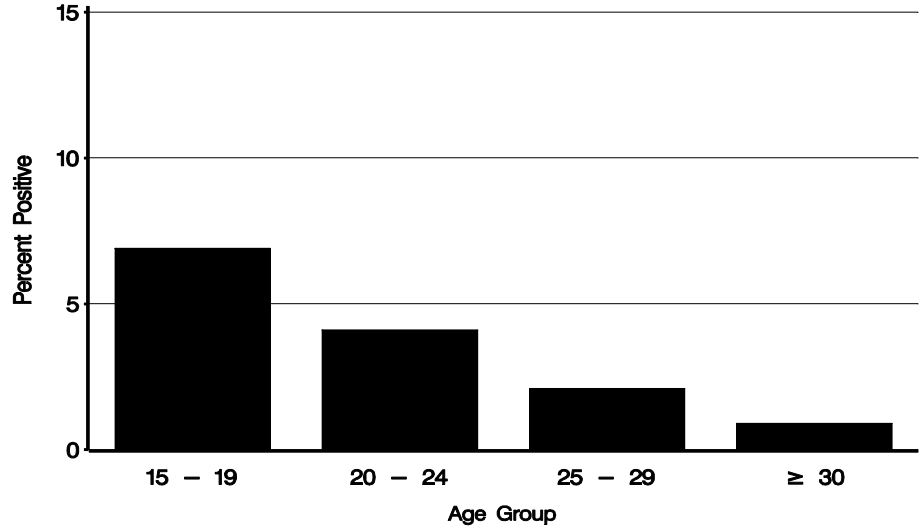


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

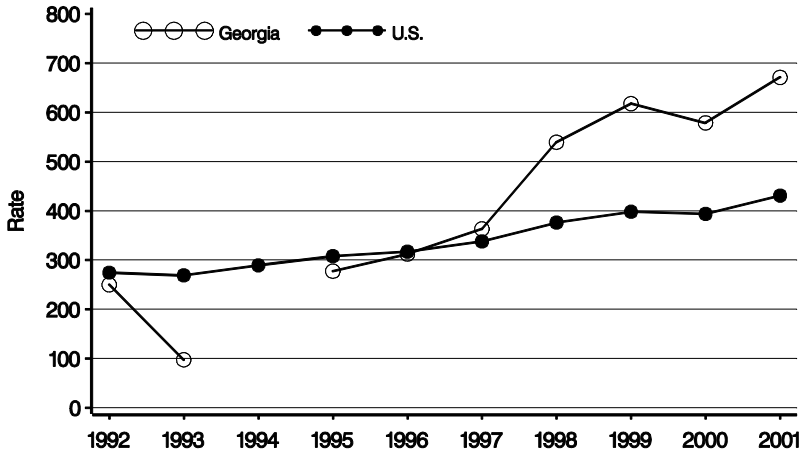
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	30	17368	4.1
STD	28	4920	10.1
Prenatal	14	4847	5.2
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Georgia – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: Only 148 female cases were reported in 1994.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

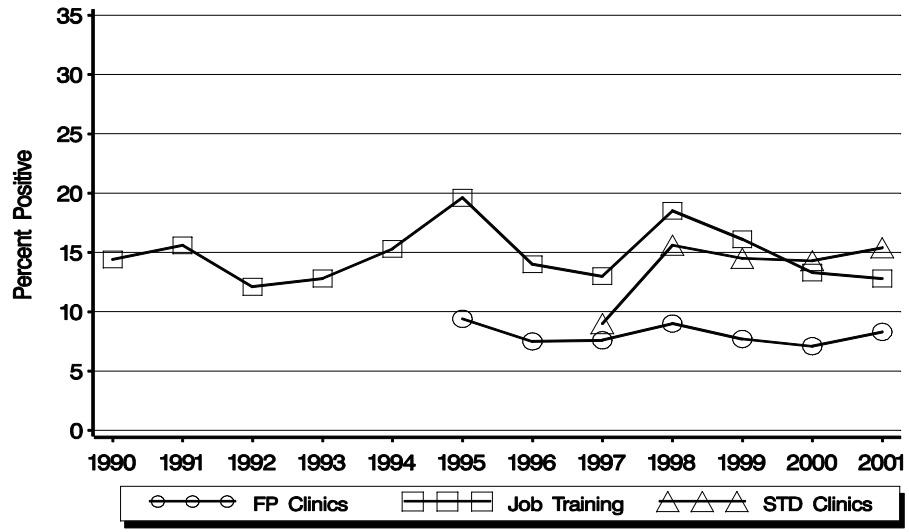
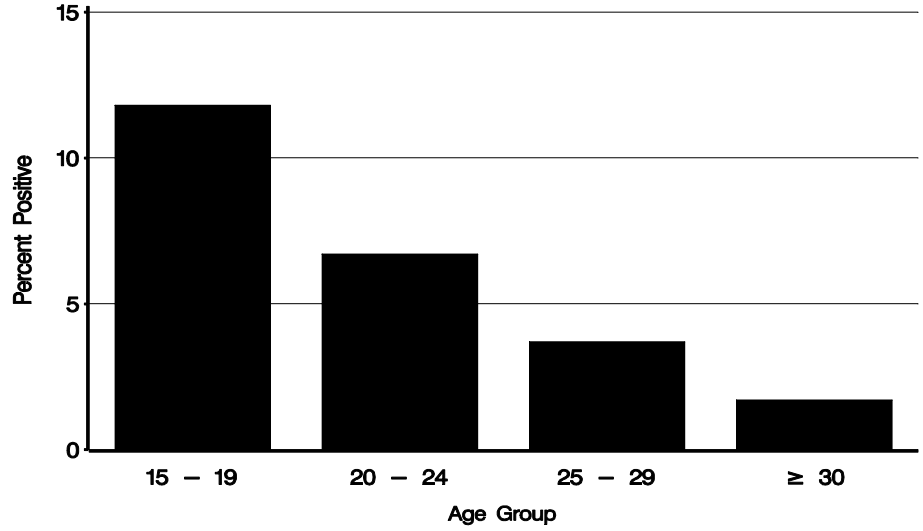


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	18	18584	5.7
STD	13	9947	9.9
Adult Corrections	1	2231	6.9
Juvenile Detention	2	819	21.0
Other	8	3161	13.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Hawaii – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

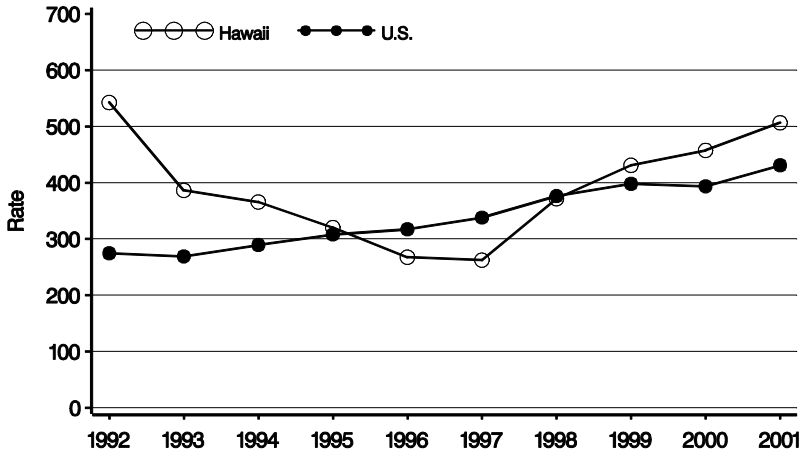


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

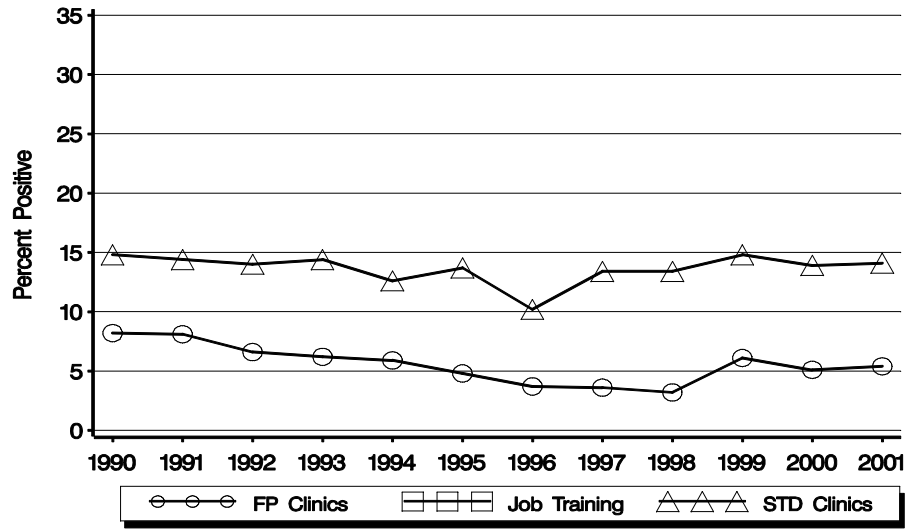
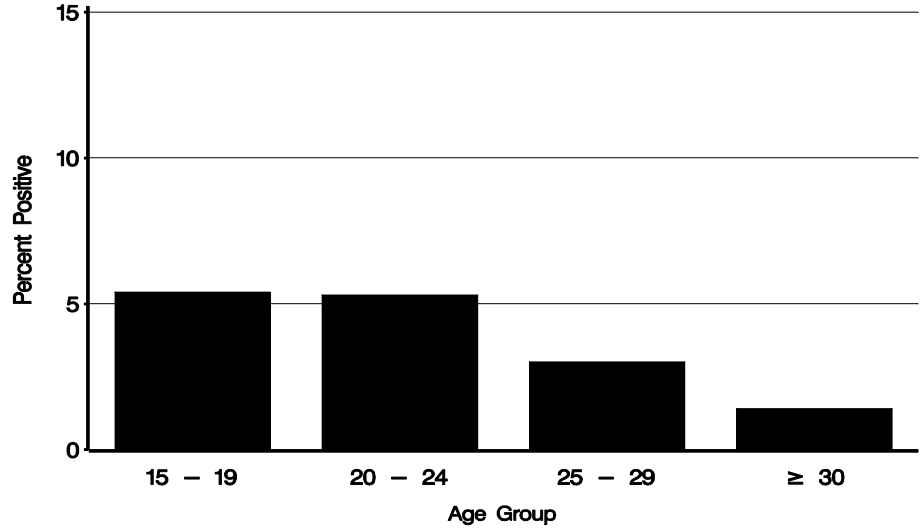


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	19	13652	3.9
STD	1	1274	11.7
Adult Corrections	2	247	3.6
Other	17	3186	3.0

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Iowa – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

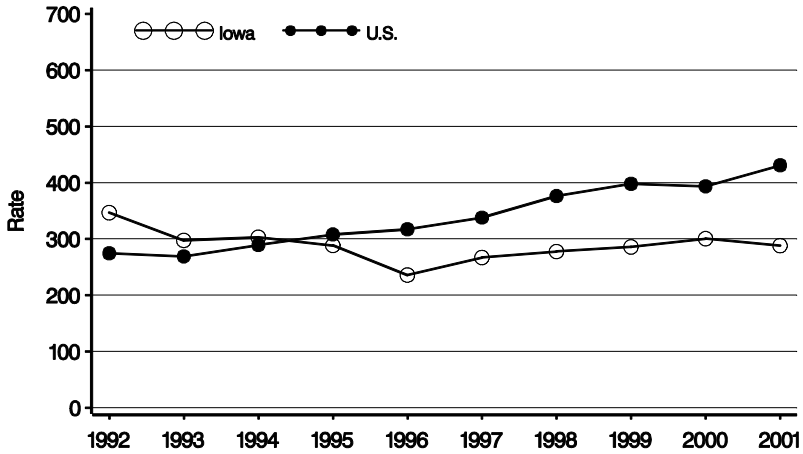


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

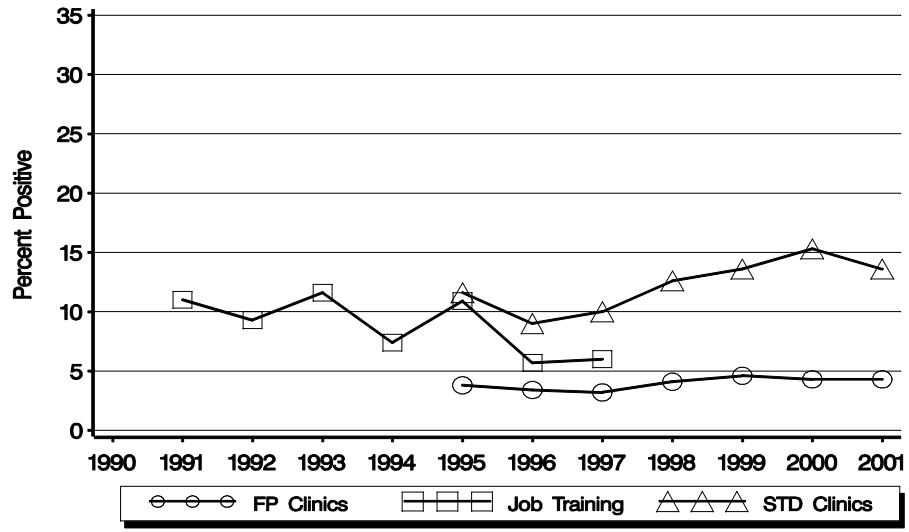
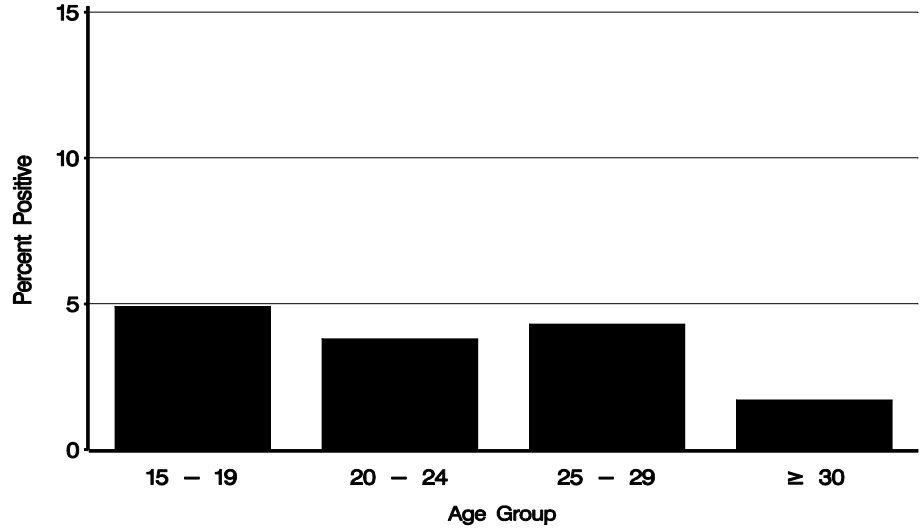


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	46	36749	4.1
STD	9	3070	10.8
Prenatal	1	353	3.1
Adult Corrections	1	182	0.5
Juvenile Detention	1	132	4.5
Other	7	4361	3.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Idaho – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

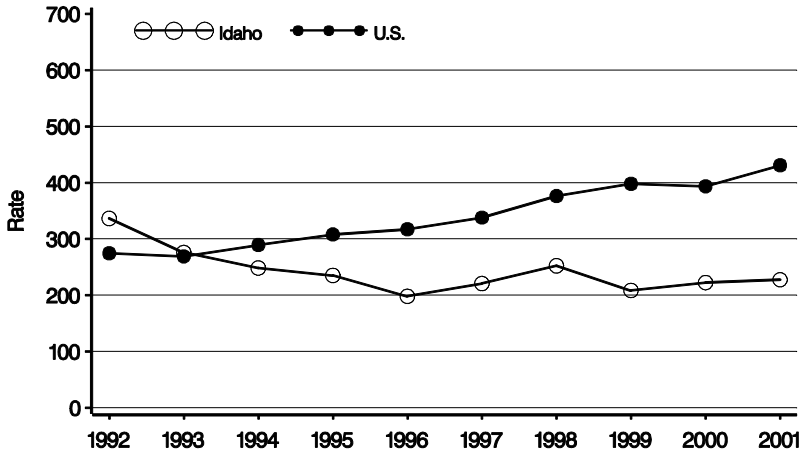


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

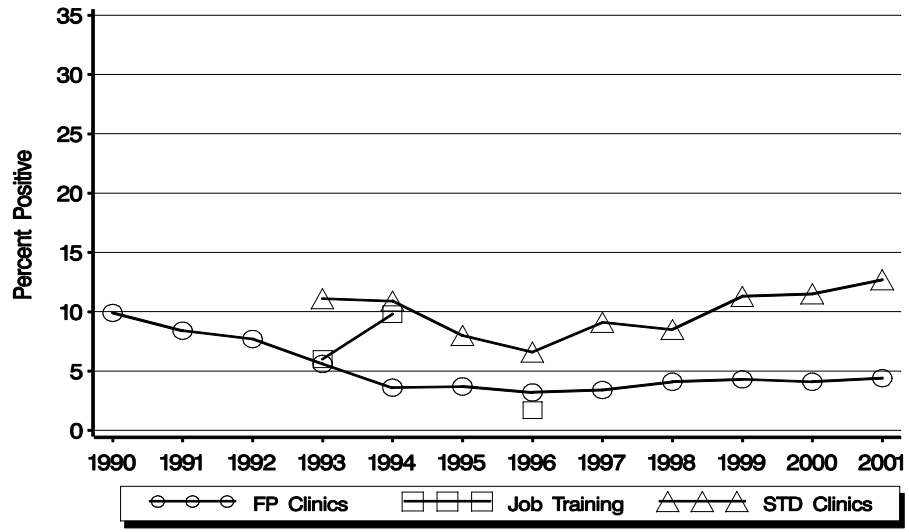
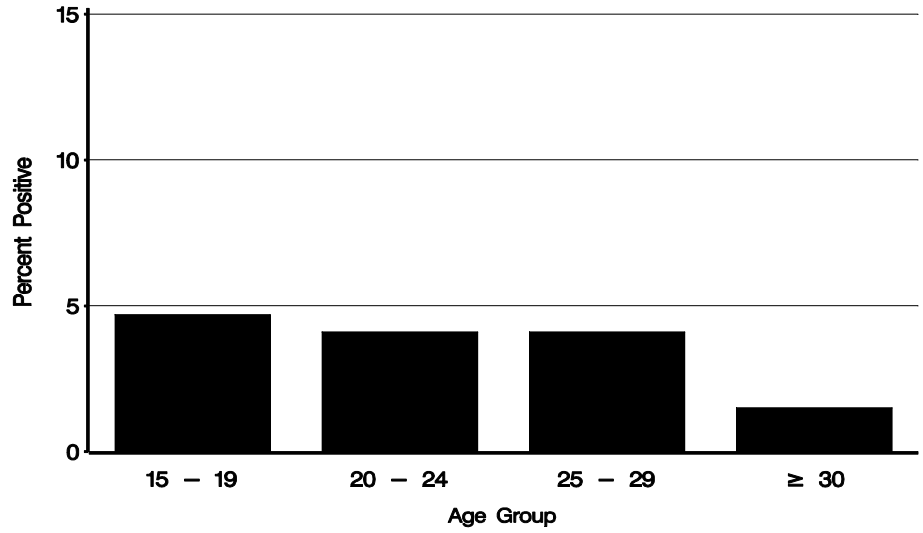


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	38	13786	4.1
STD	6	1170	10.3
Other	9	558	4.1

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Illinois – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

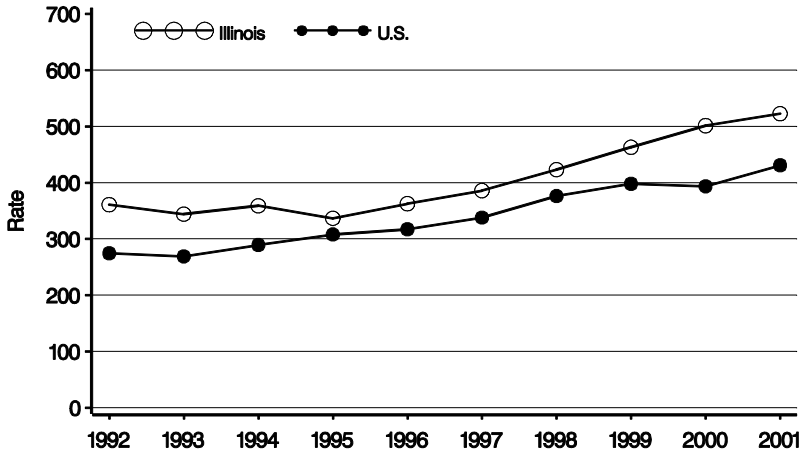


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

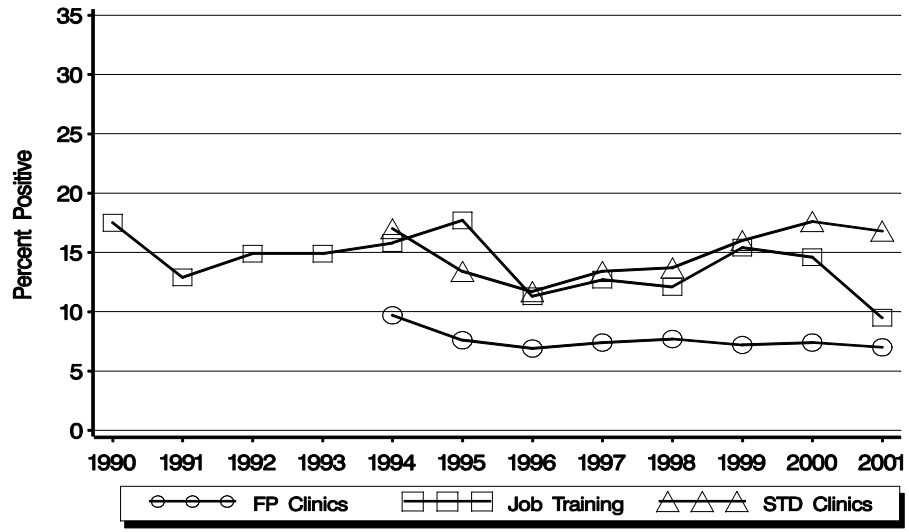
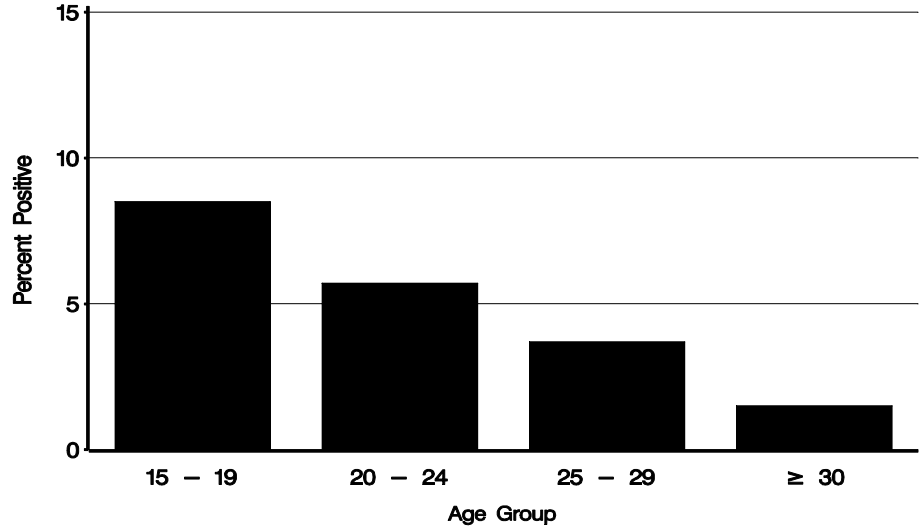


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	114	88062	5.7
STD	36	23602	11.6
Prenatal	10	4813	6.1
Adult Corrections	2	14983	4.4
Juvenile Detention	1	132	23.9
Other	94	32896	7.3

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Indiana – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

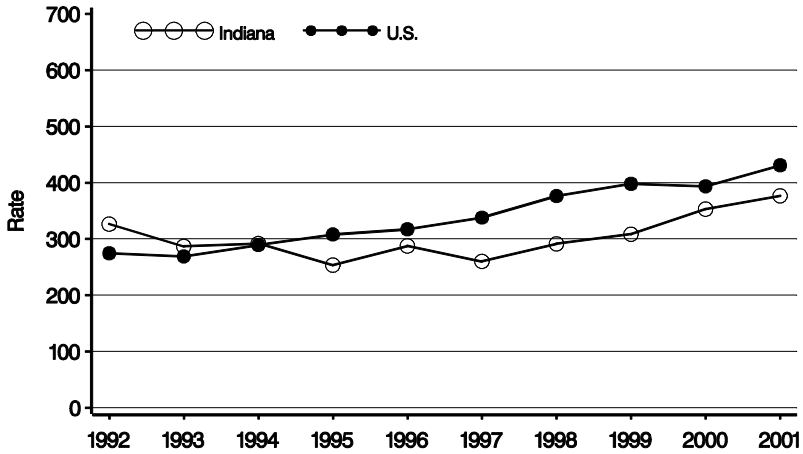


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

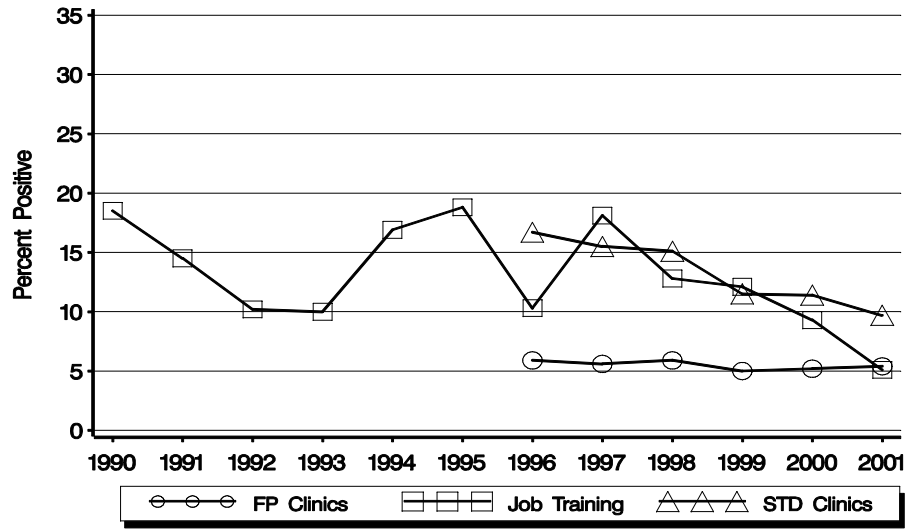
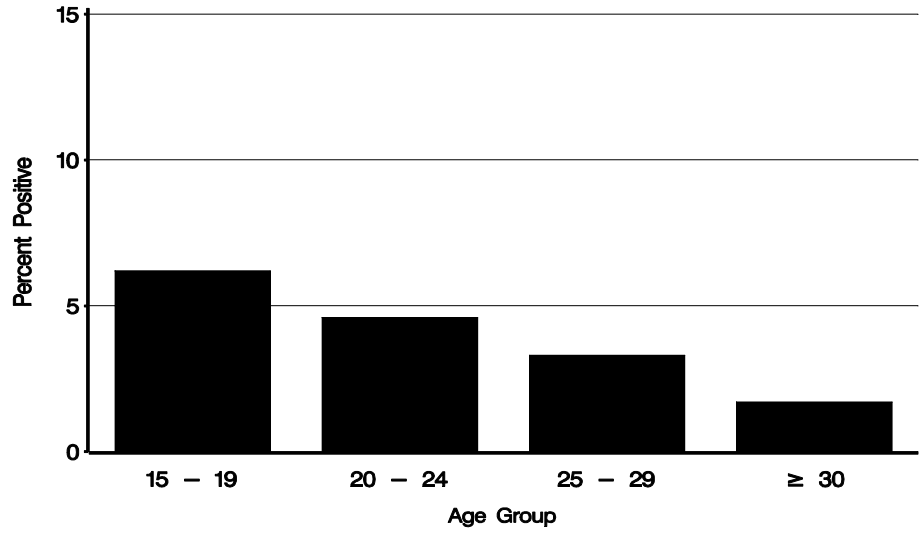


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	48	32851	4.7
STD	16	4710	7.1
Adult Corrections	1	2098	8.5
Other	20	10260	4.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Kansas – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

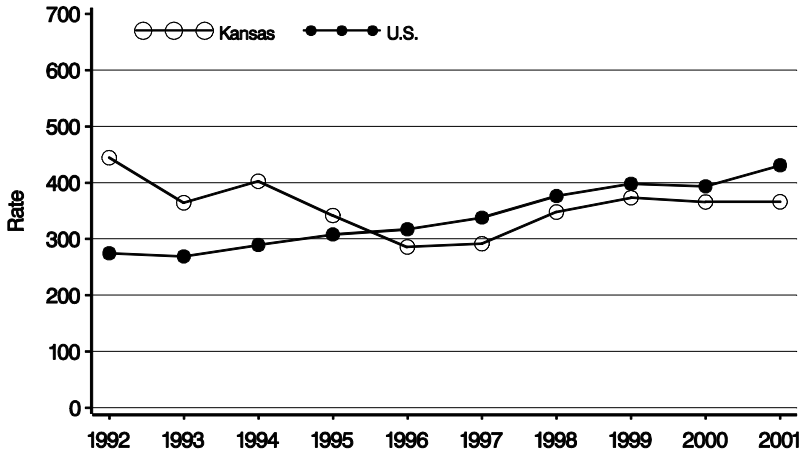


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

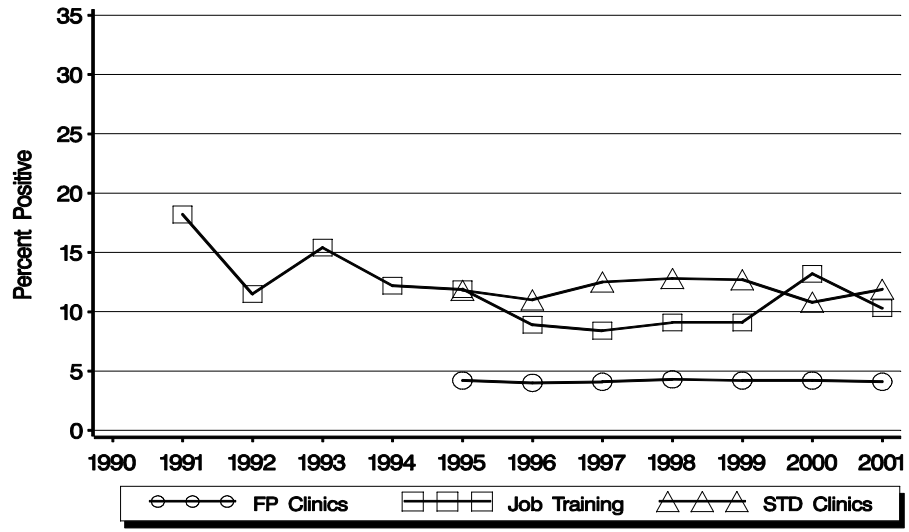
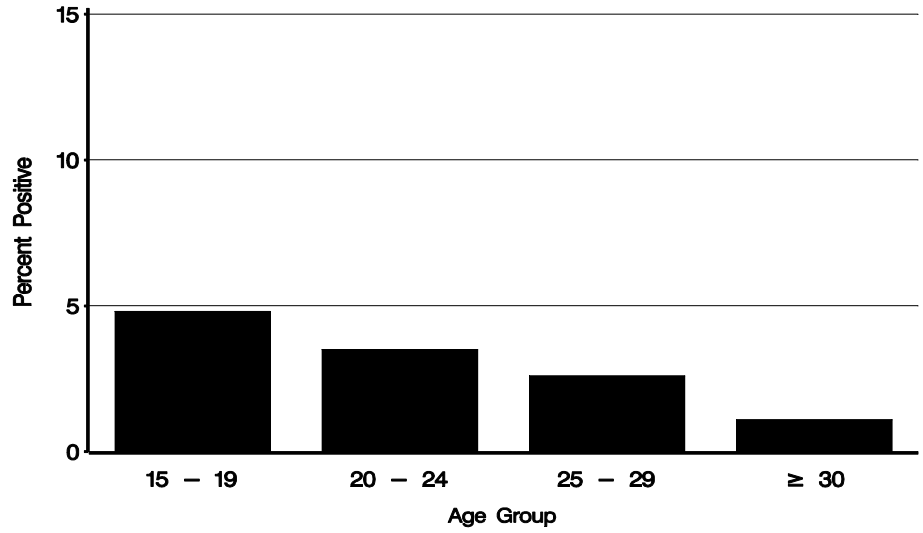


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	81	22637	3.3
STD	18	5301	8.9
Prenatal	11	3683	4.9
Adult Corrections	2	522	2.1
Other	13	2554	3.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Kentucky – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

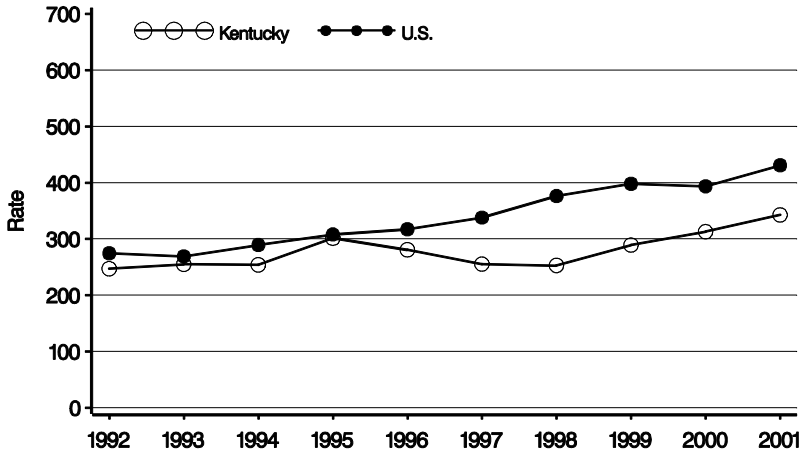


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

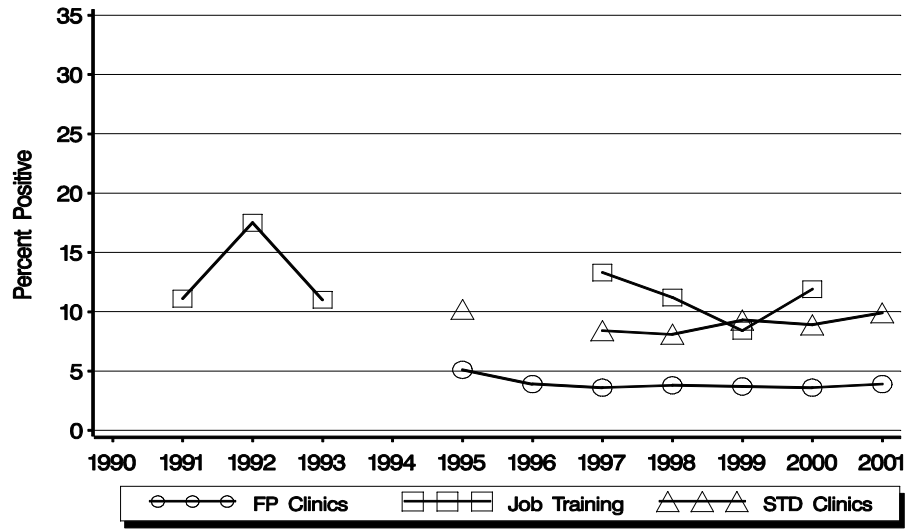
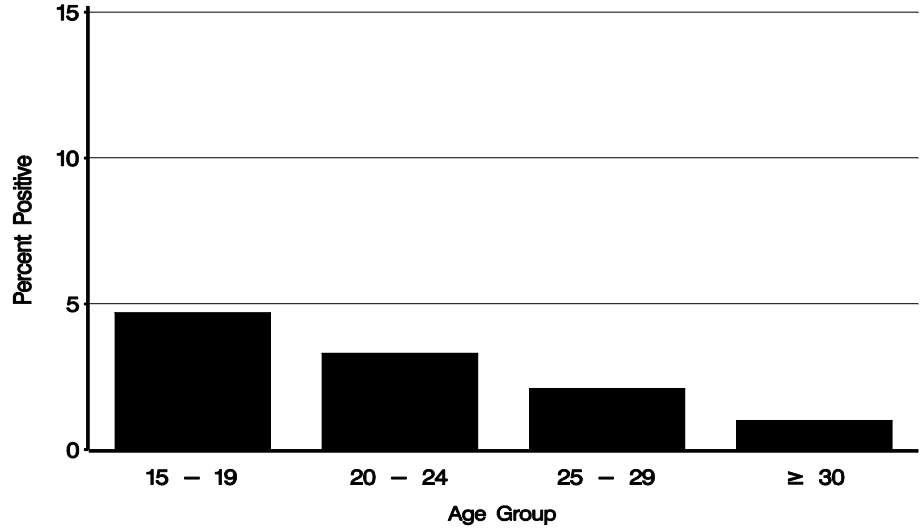


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	136	49878	3.4
STD	47	7345	6.8
Prenatal	45	6466	3.3
Other	23	9692	5.0

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Louisiana – 2001

Figure A. Chlamydia rate per 100,000 women, 1992 – 2001

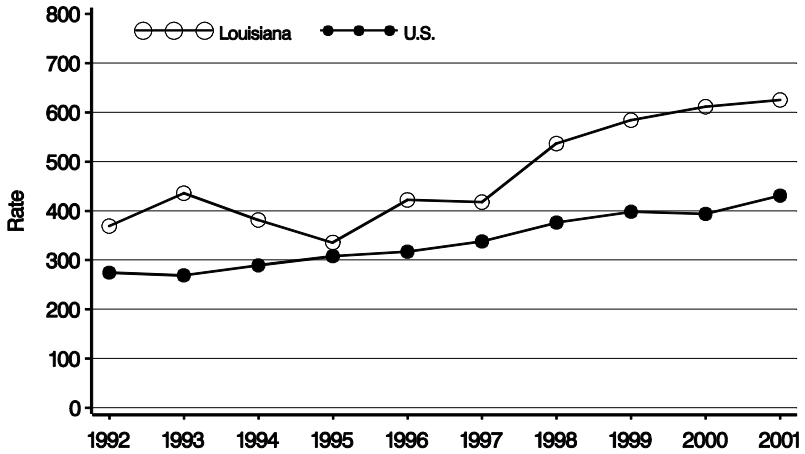


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990 – 2001

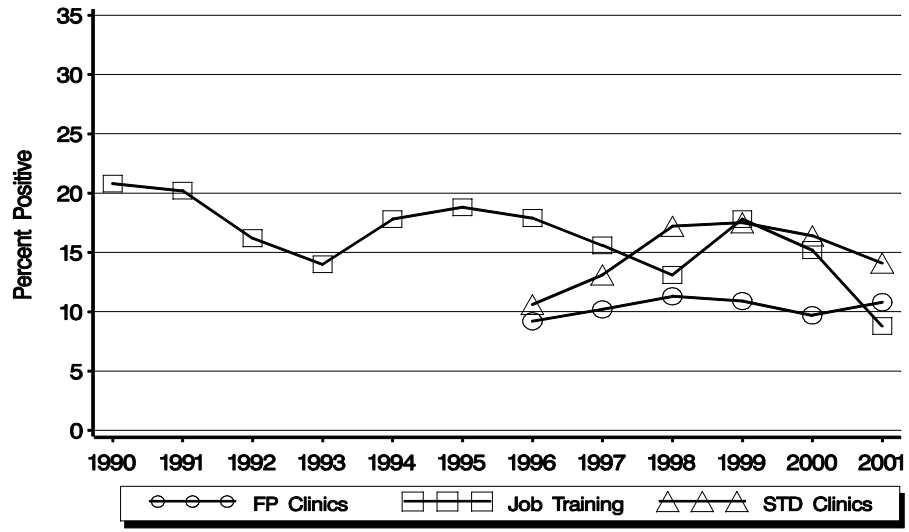
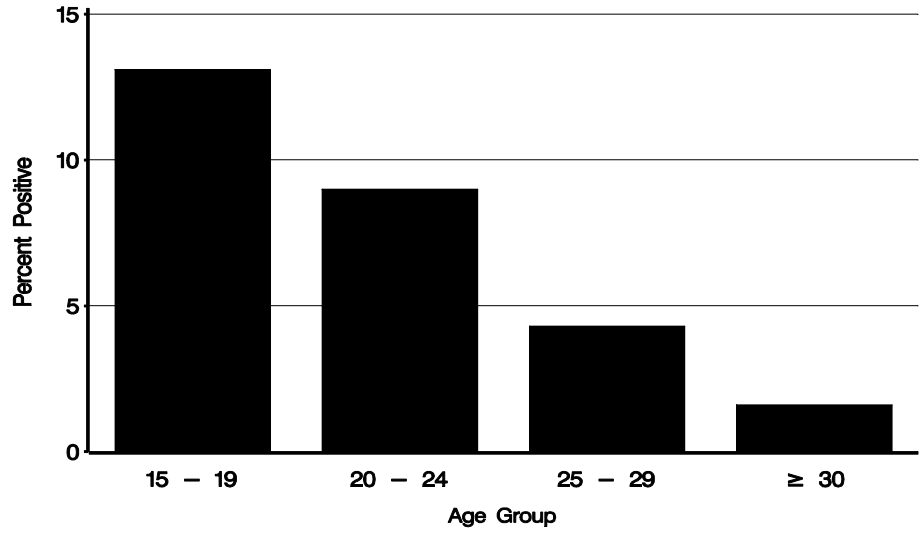


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	60	17737	7.6
STD	8	3301	10.1
Prenatal	16	2205	10.2
Other	6	2663	9.8

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Massachusetts – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

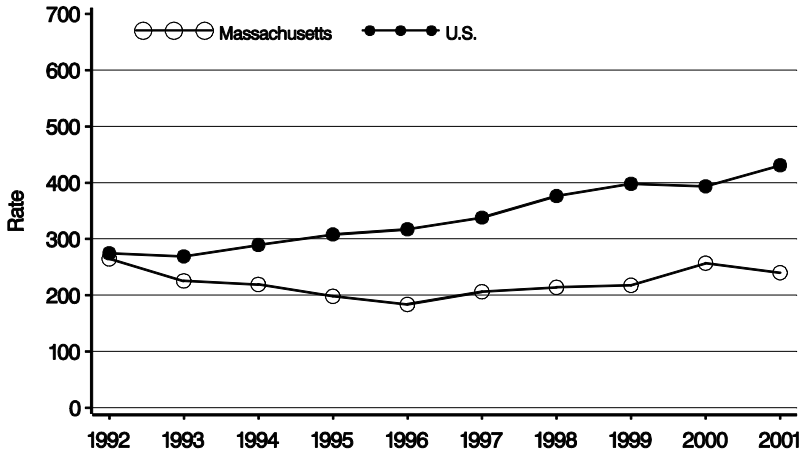


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

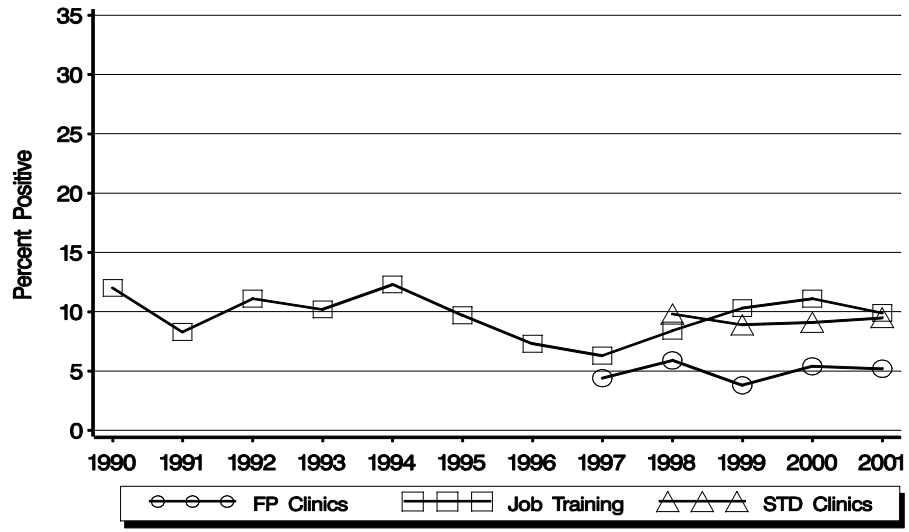
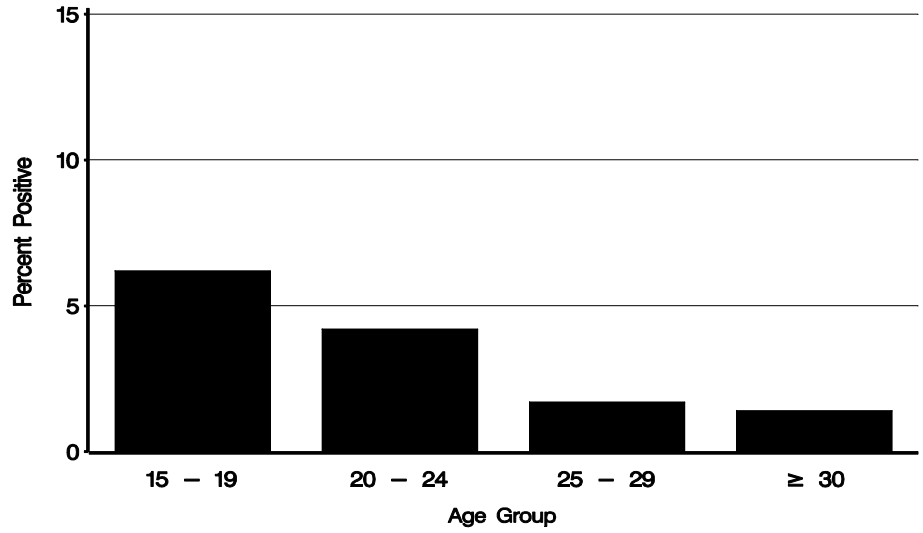


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	14	6579	4.0
STD	12	2646	7.0
Adult Corrections	3	828	5.7
Other	5	437	6.2

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Maryland – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

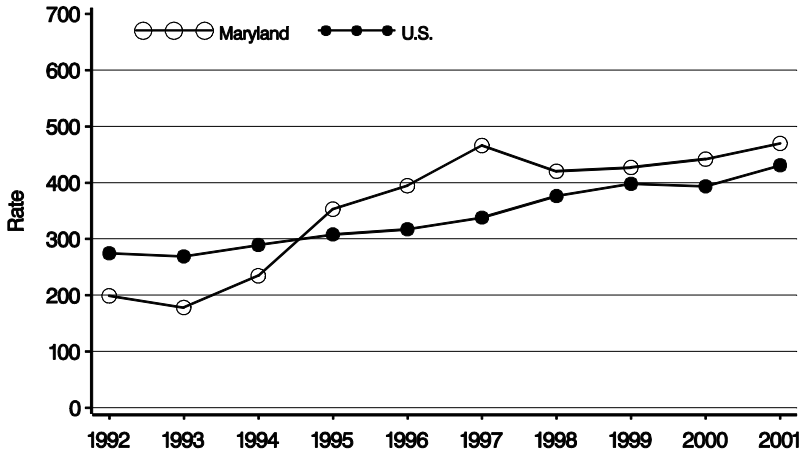


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

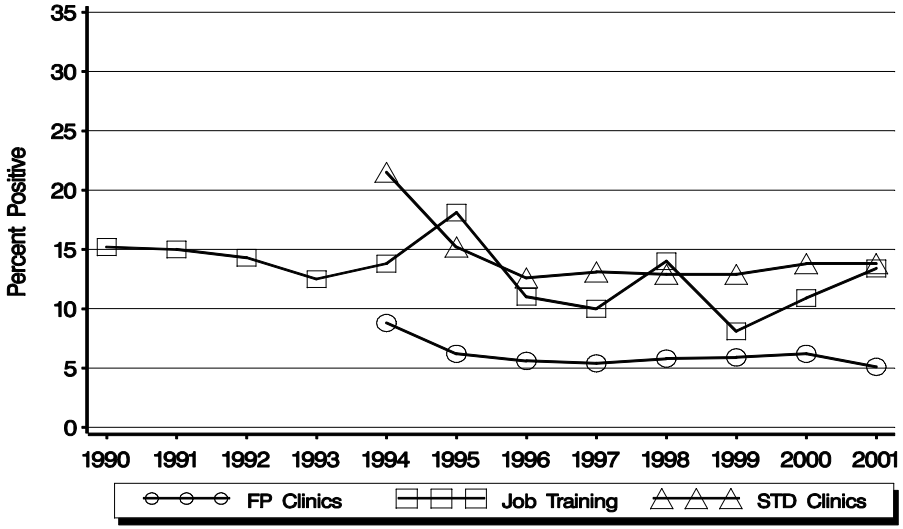
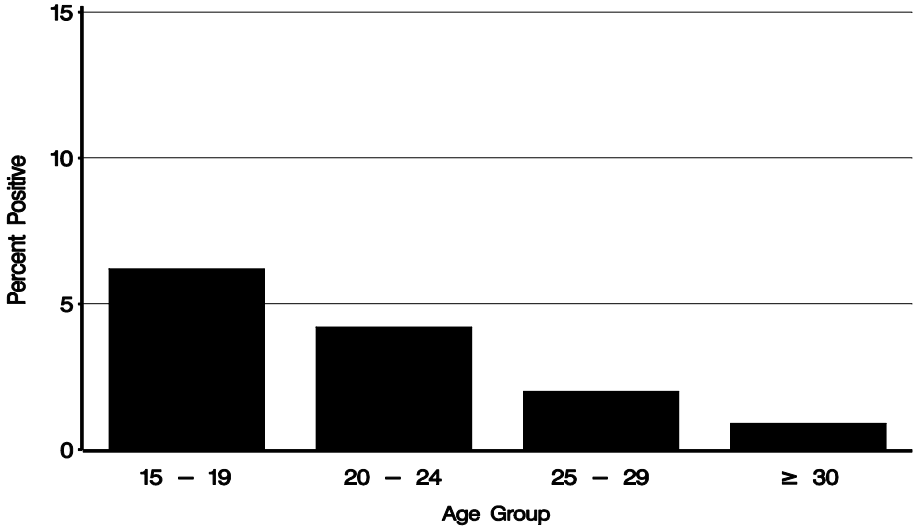


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	53	40192	3.6
STD	20	14583	9.2
Prenatal	4	2652	2.5
Juvenile Detention	1	567	20.8
Other	13	5091	9.5

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Maine – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

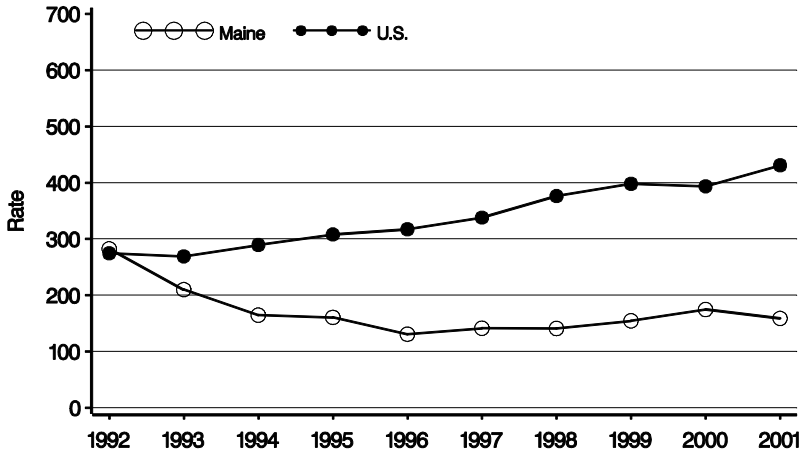


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

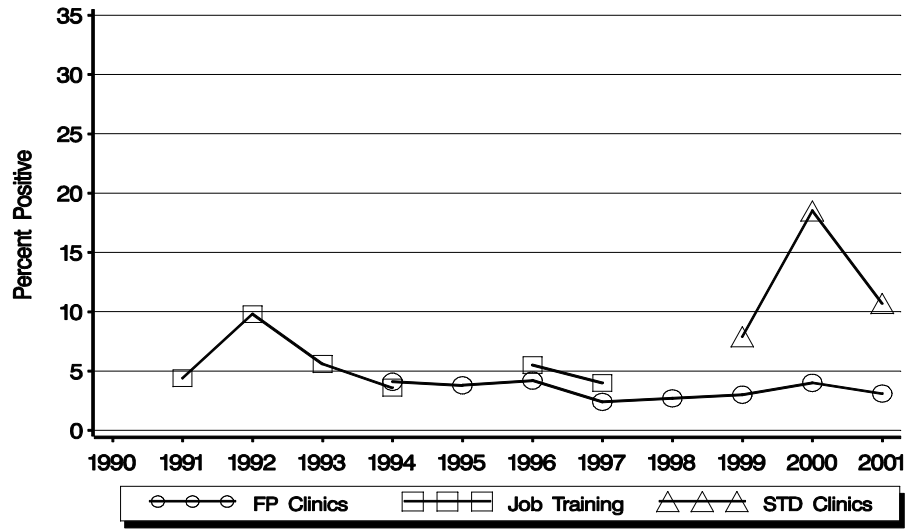
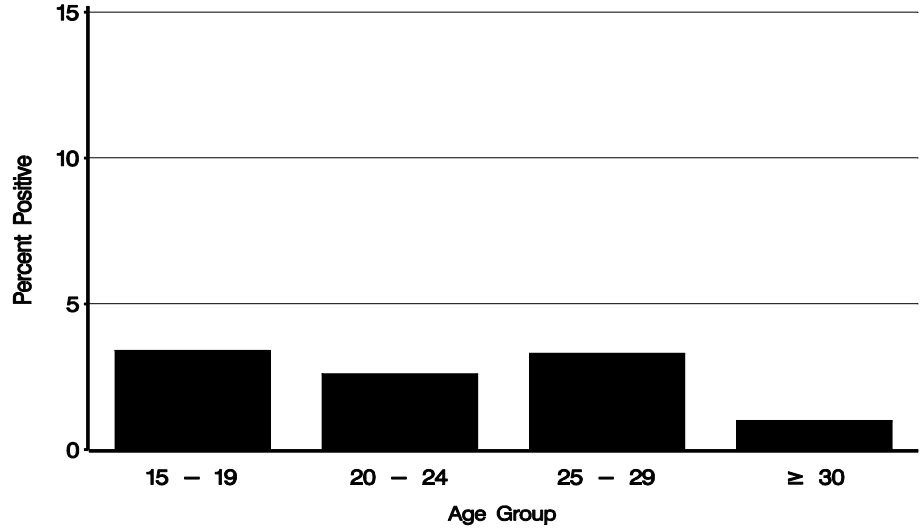


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	20	5174	2.9
STD	2	167	10.2
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Michigan – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

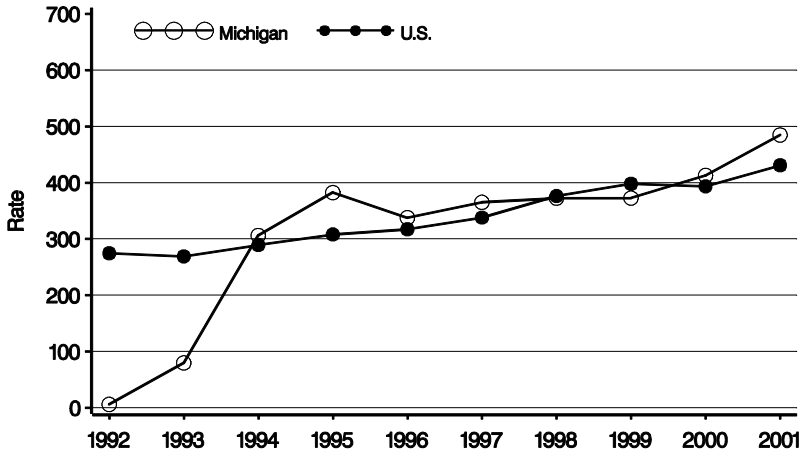


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

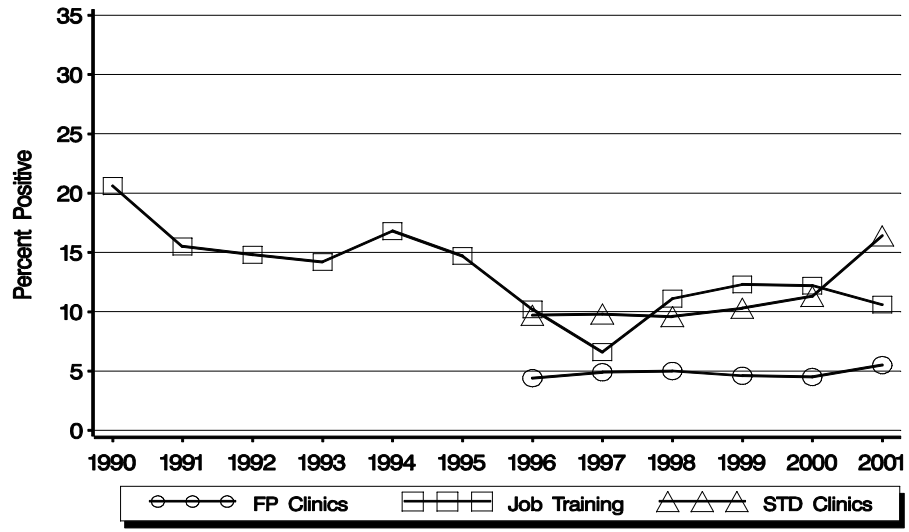
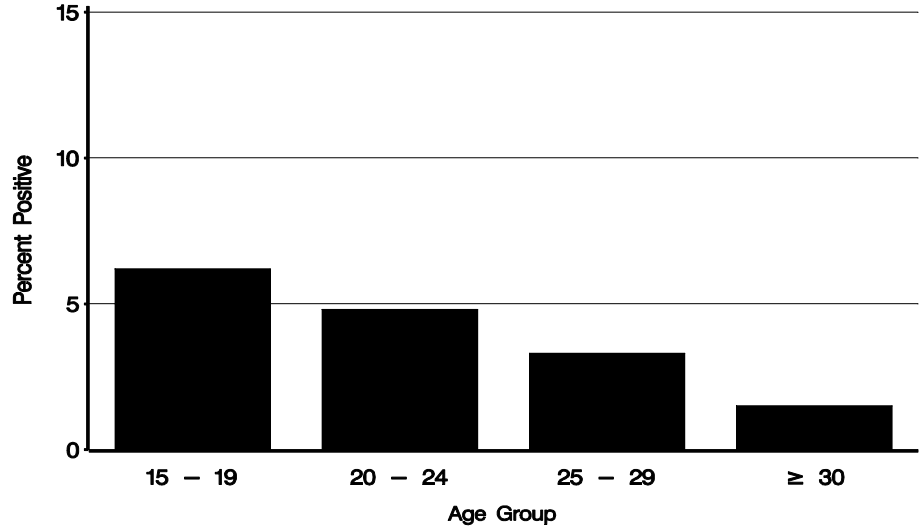


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	140	84325	4.7
STD	29	13483	11.9
Adult Corrections	1	142	4.8
Other	30	6550	8.8

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Minnesota – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

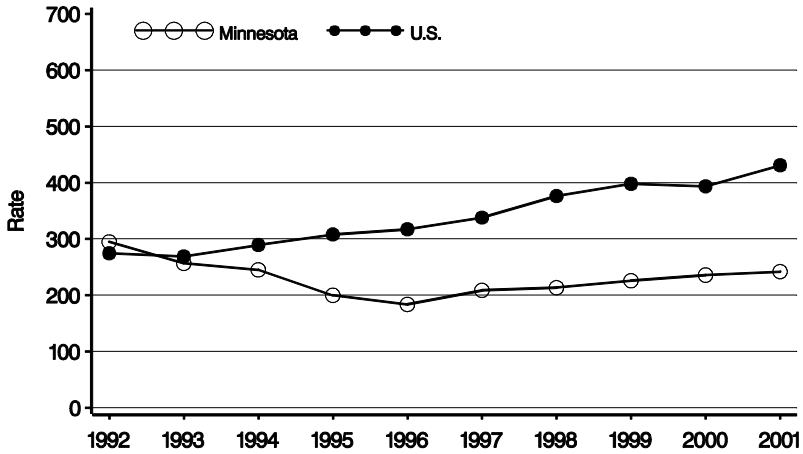


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

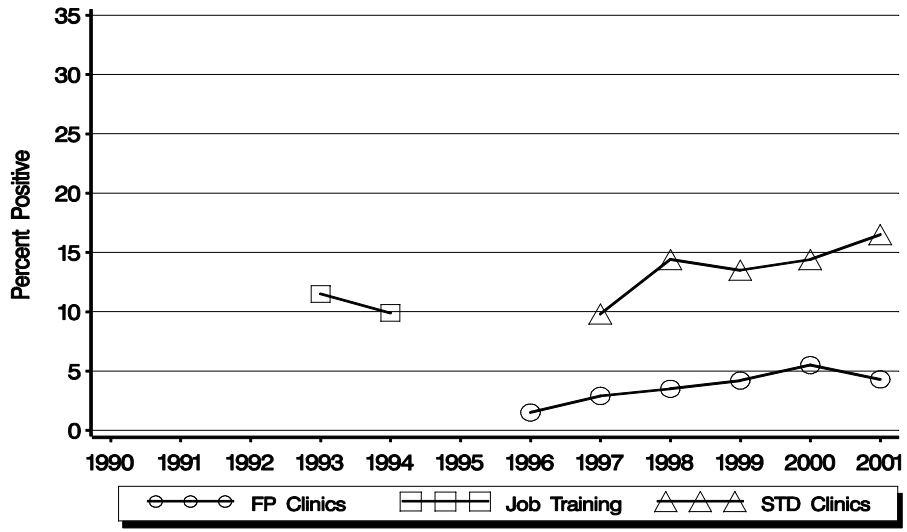
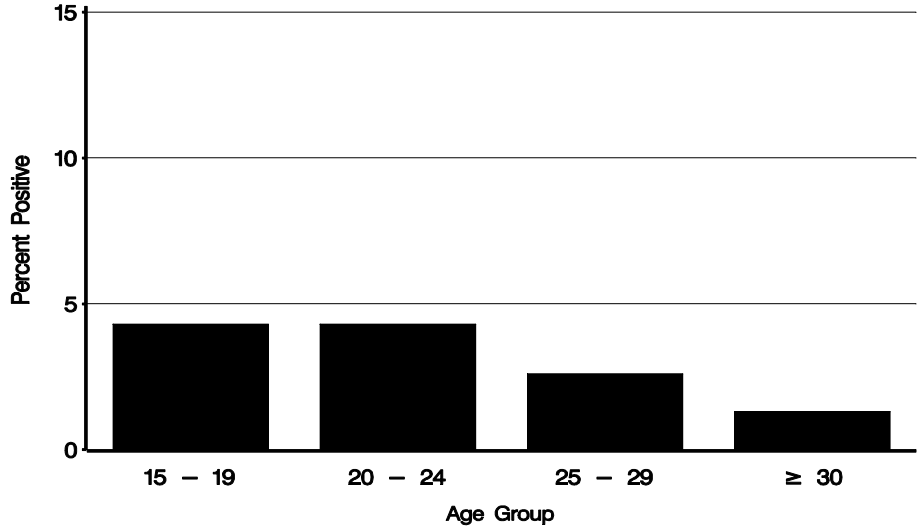


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

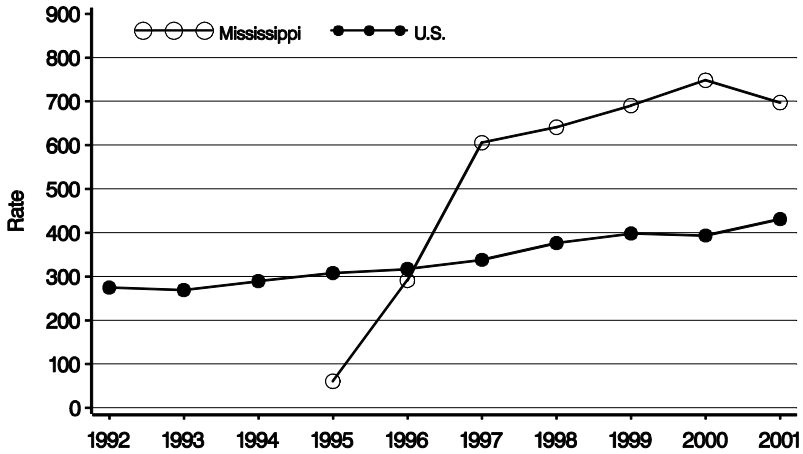
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	25	20369	3.8
STD	1	1312	10.6
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Mississippi – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: No data were reported in 1992–1994.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

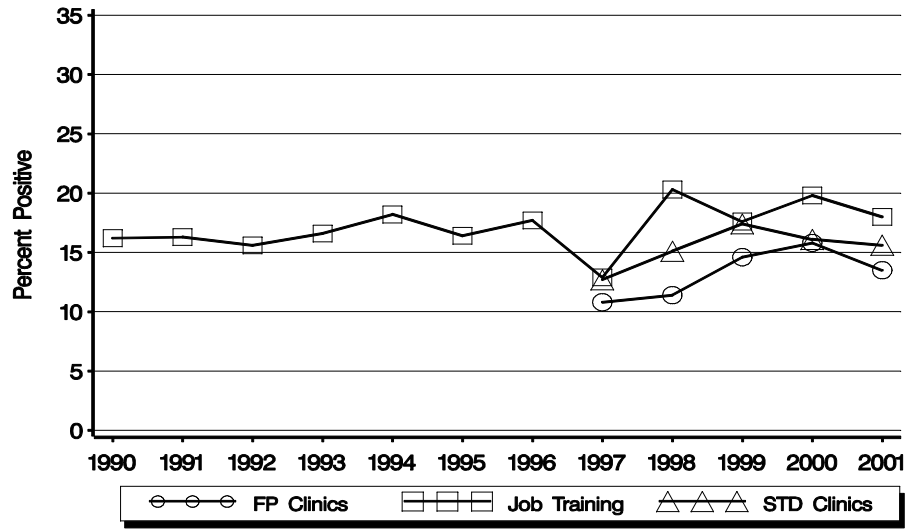
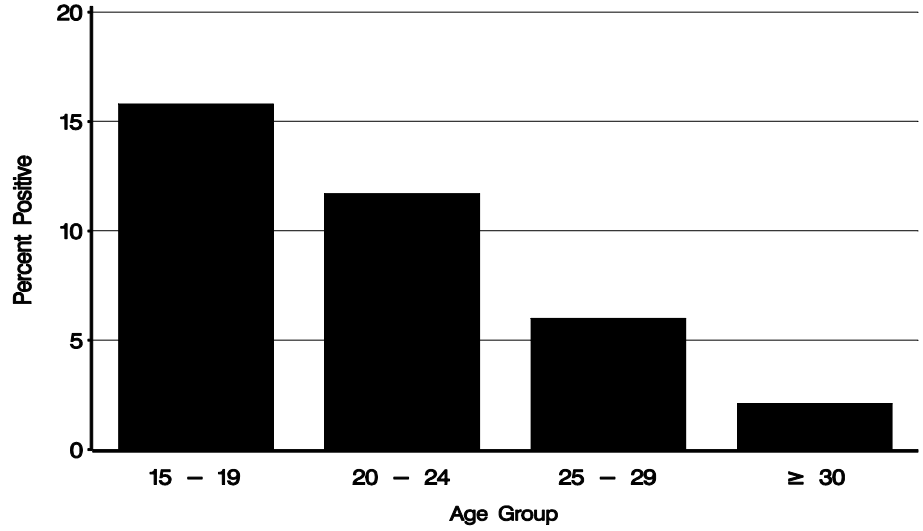


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	13	8023	11.5
STD	10	3360	12.0
Prenatal	41	9575	11.0
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Missouri – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

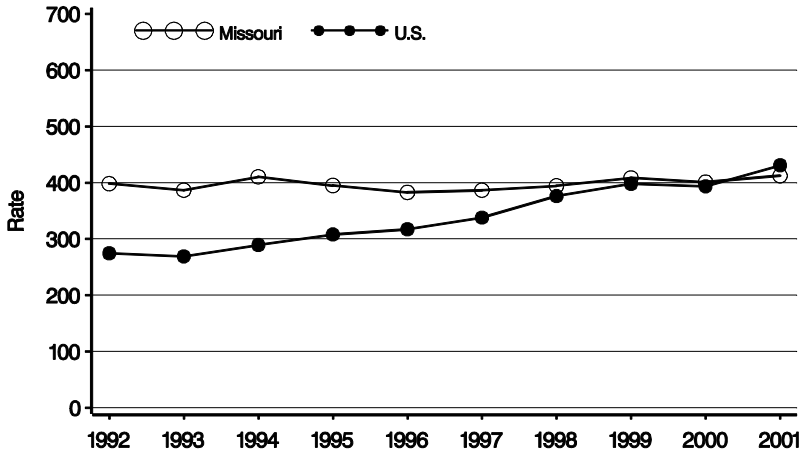


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

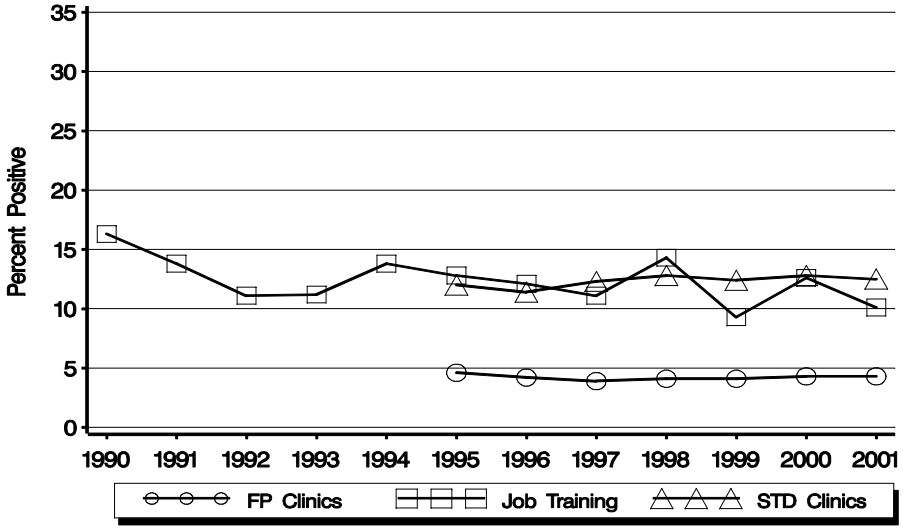
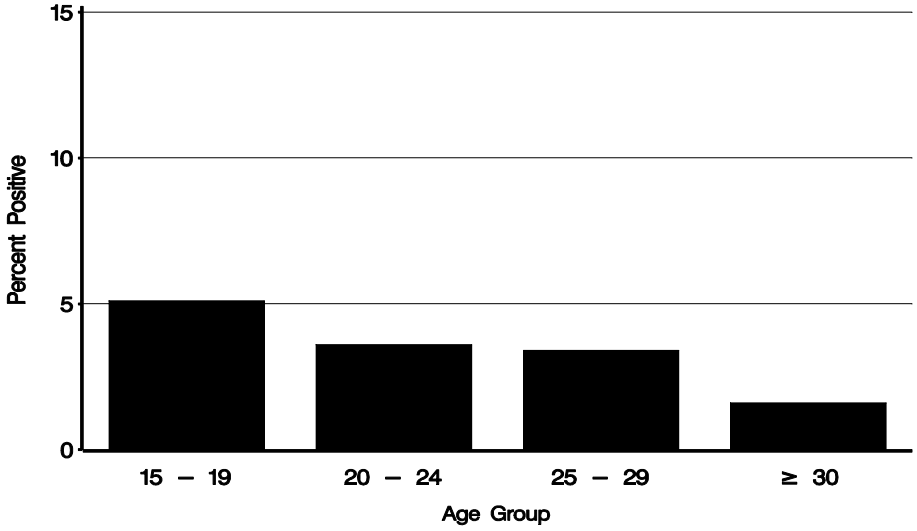


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	58	37915	4.0
STD	7	8089	10.7
Prenatal	2	496	6.8
Adult Corrections	1	162	8.6
Other	29	8222	4.9

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Montana – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

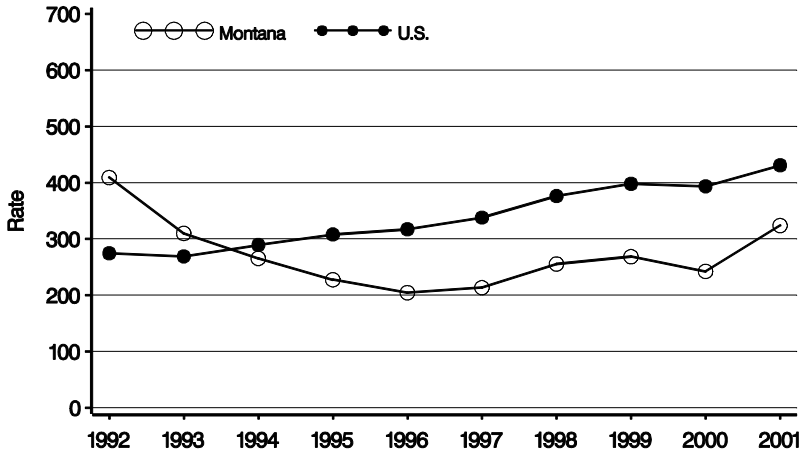


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

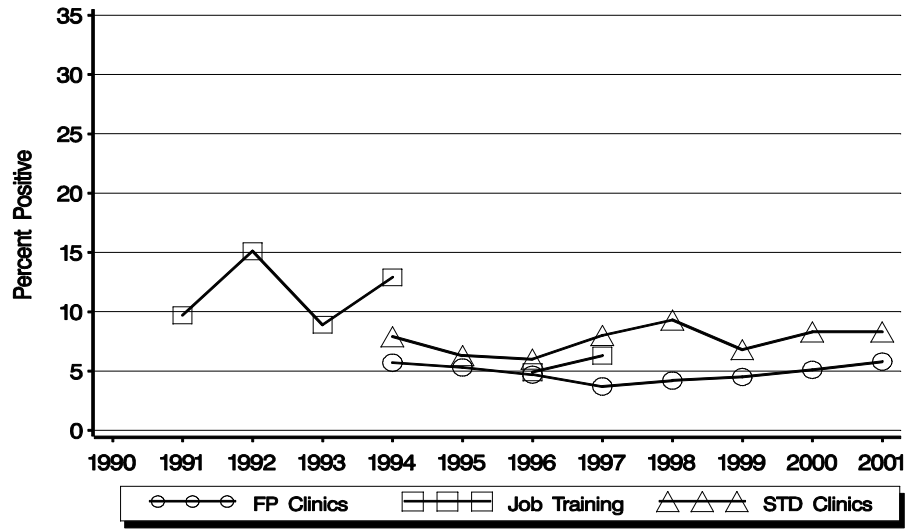
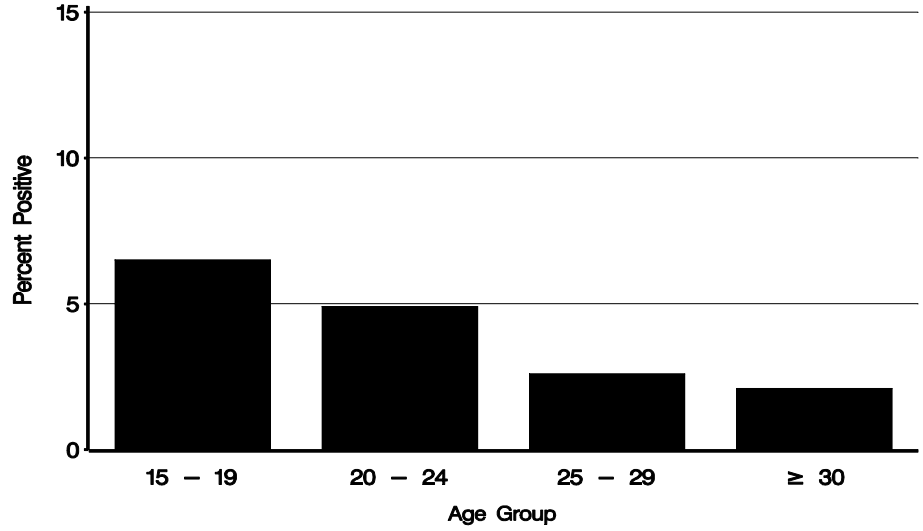


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	19	8762	4.9
STD	6	766	6.3
Adult Corrections	1	128	3.9
IHS	9	4452	7.0
Other	35	7958	6.3

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



North Carolina – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

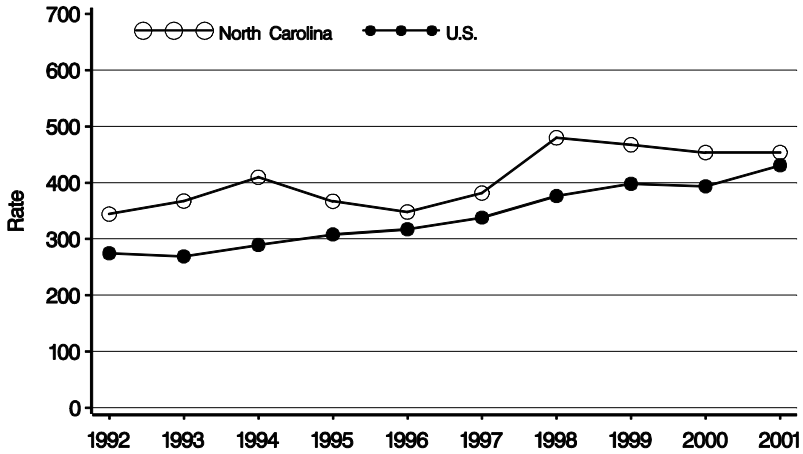


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

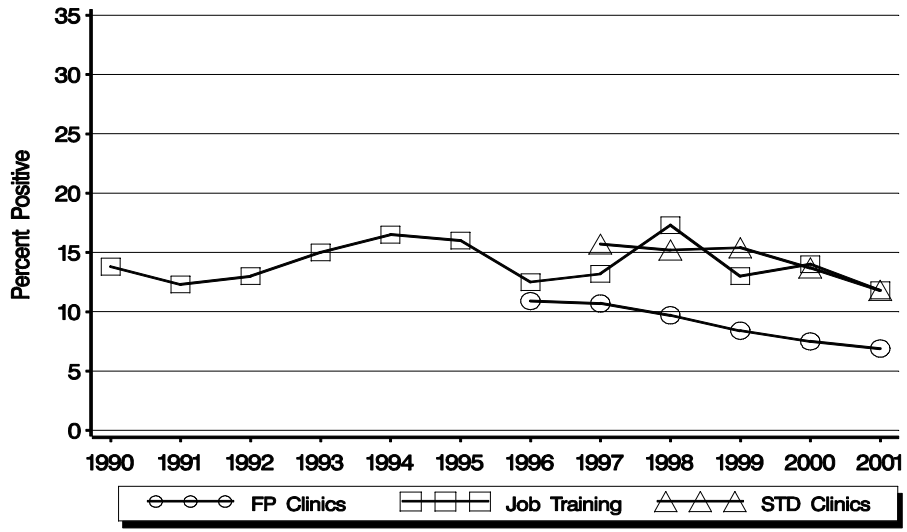
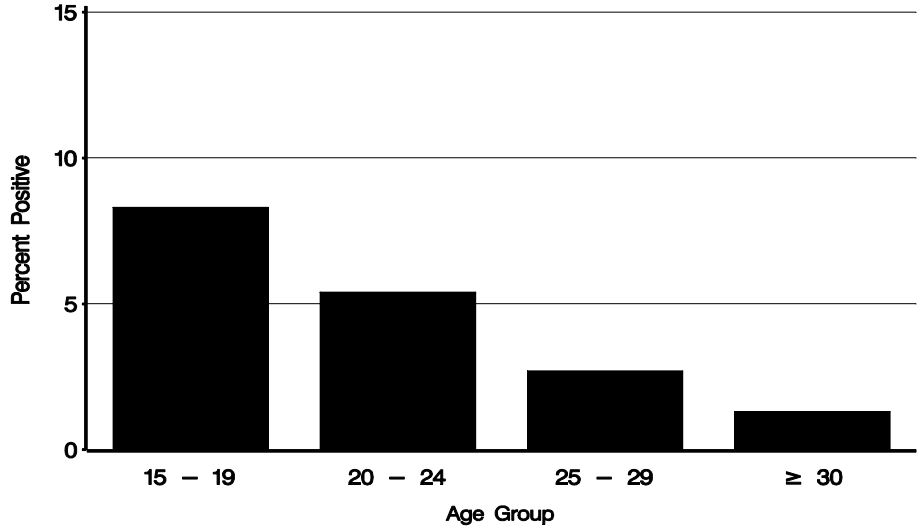


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	115	49781	6.0
STD	97	19385	8.7
Prenatal	81	23530	6.4
Other	5	573	4.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



North Dakota – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

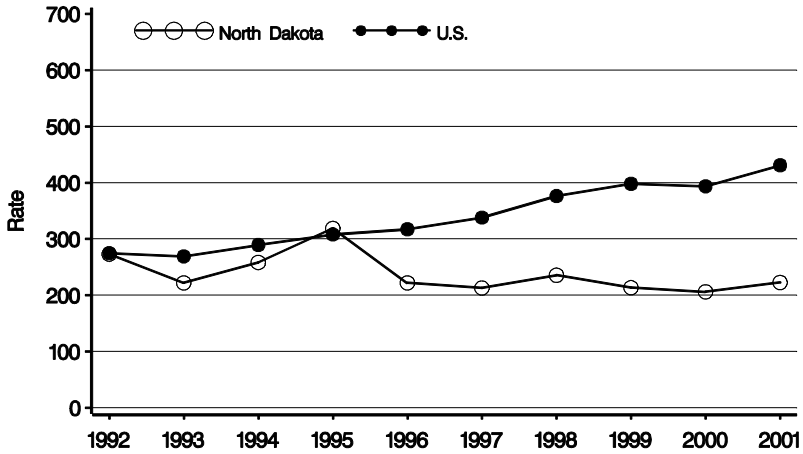


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

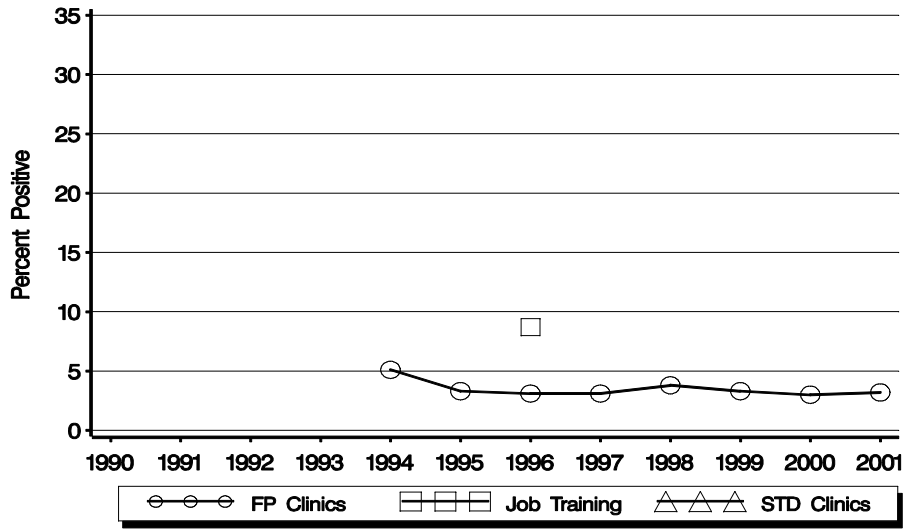
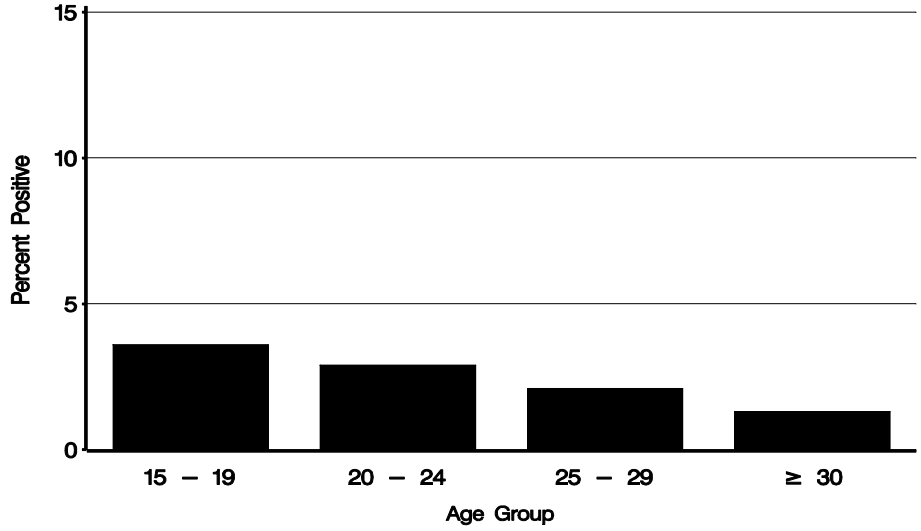


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	9	6208	2.9
STD	NA	NA	NA
IHS	6	1540	5.8
Other	14	2944	4.7

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Nebraska – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

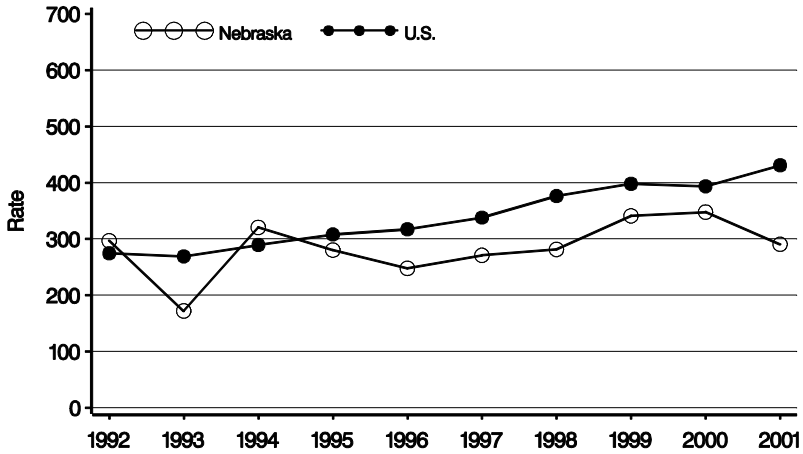


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

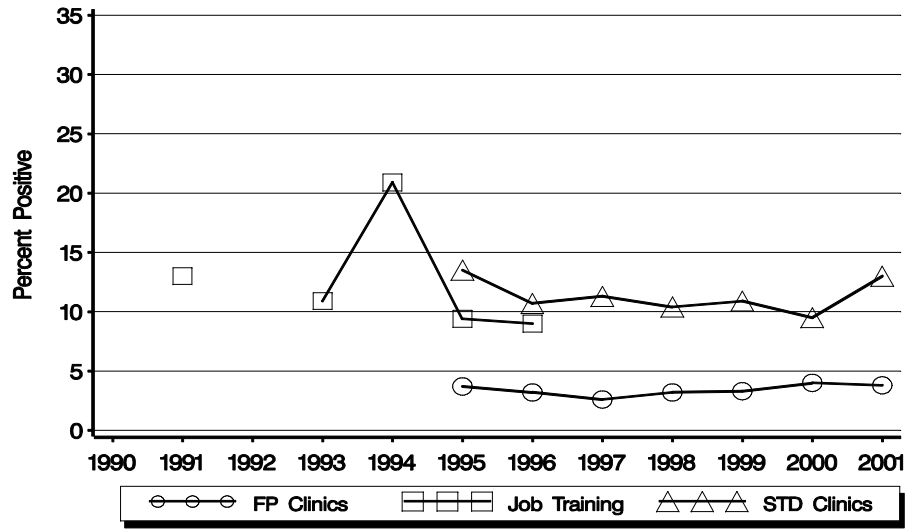
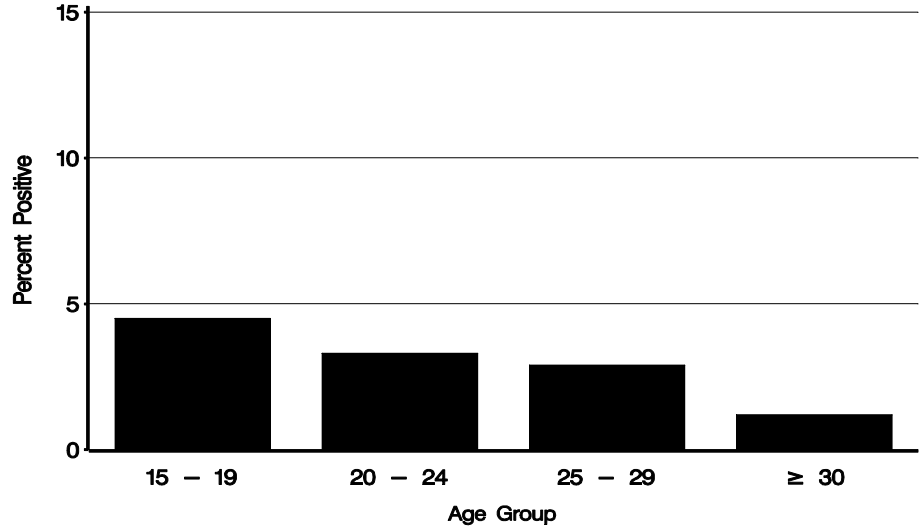


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

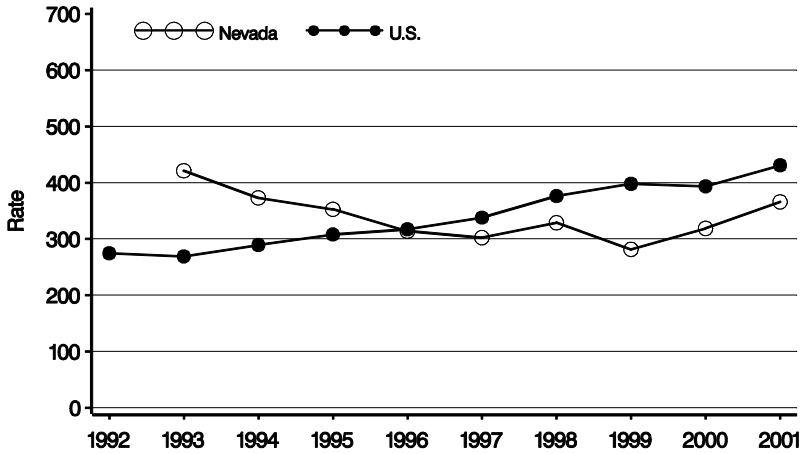
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	24	16318	3.5
STD	2	1221	9.5
Prenatal	5	4748	3.6
Other	28	3377	5.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Nevada – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: Gender unknown for majority of cases in 1992.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

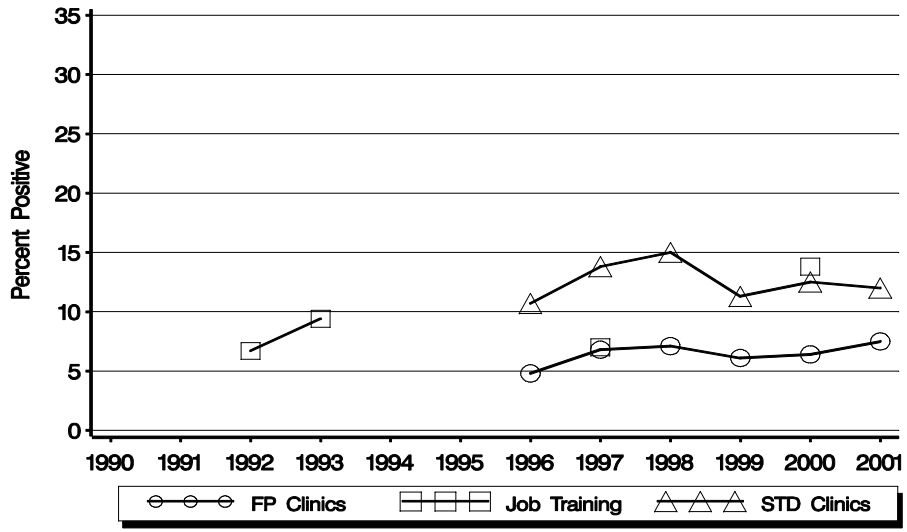
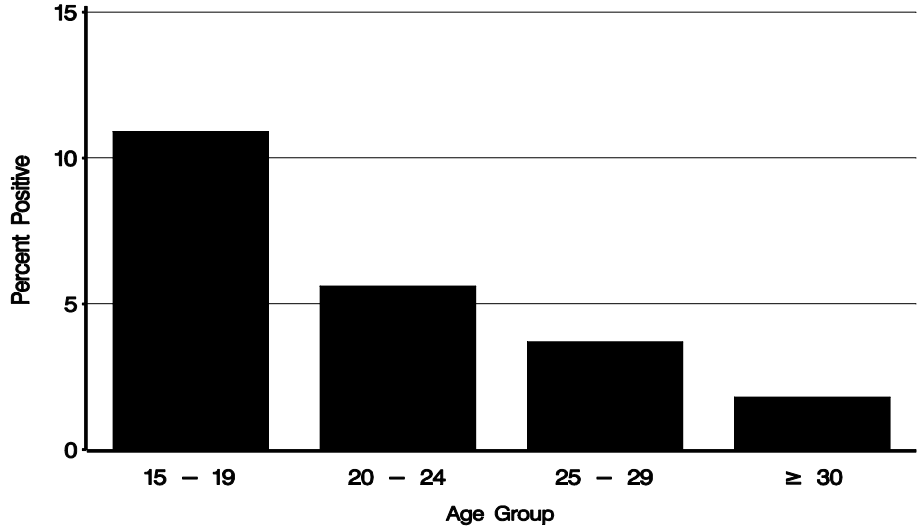


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	6	5328	5.9
STD	2	3554	7.3
Prenatal	1	339	2.9
Other	1	343	9.9

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



New Hampshire – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

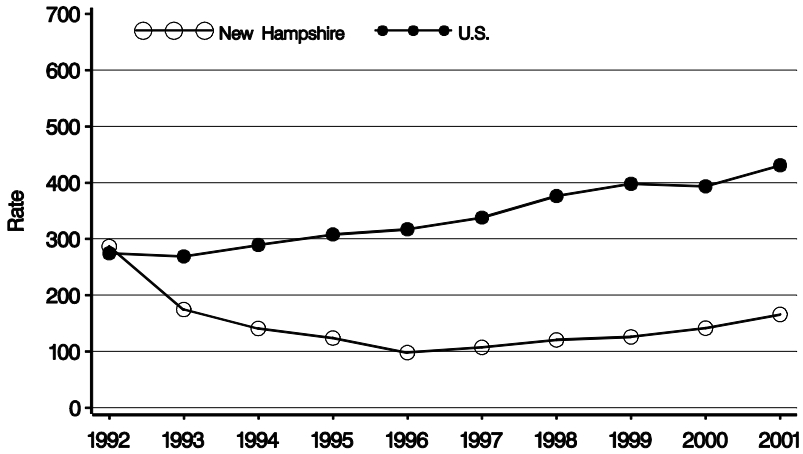


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

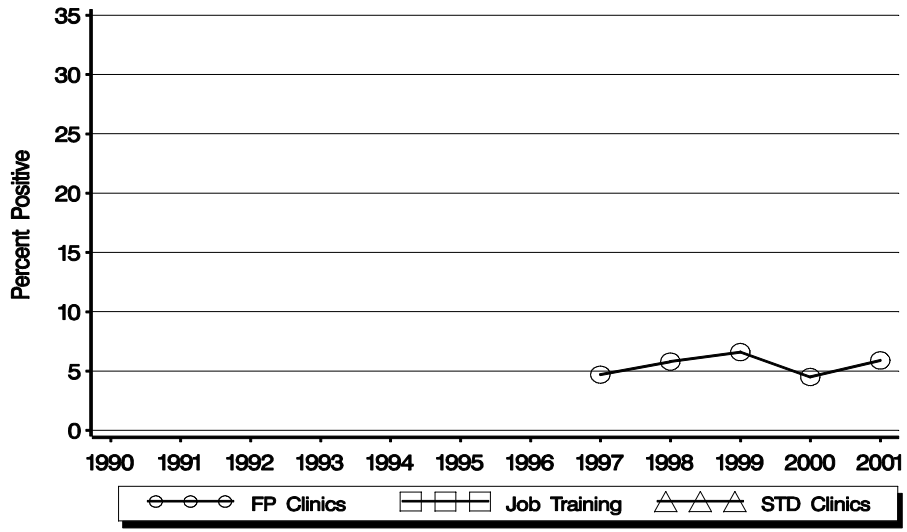
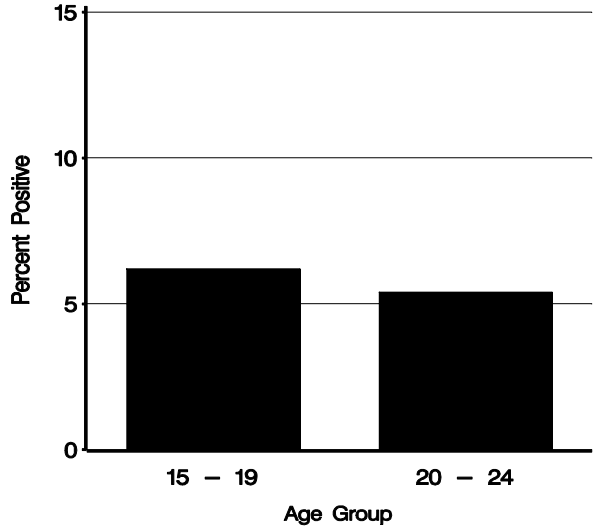


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	8	1814	5.6
STD	NA	NA	NA
Other	1	180	8.9

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



New Jersey – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

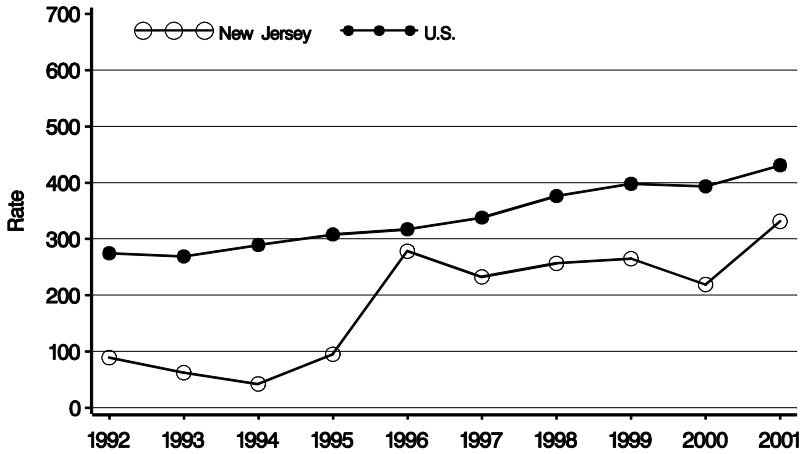


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

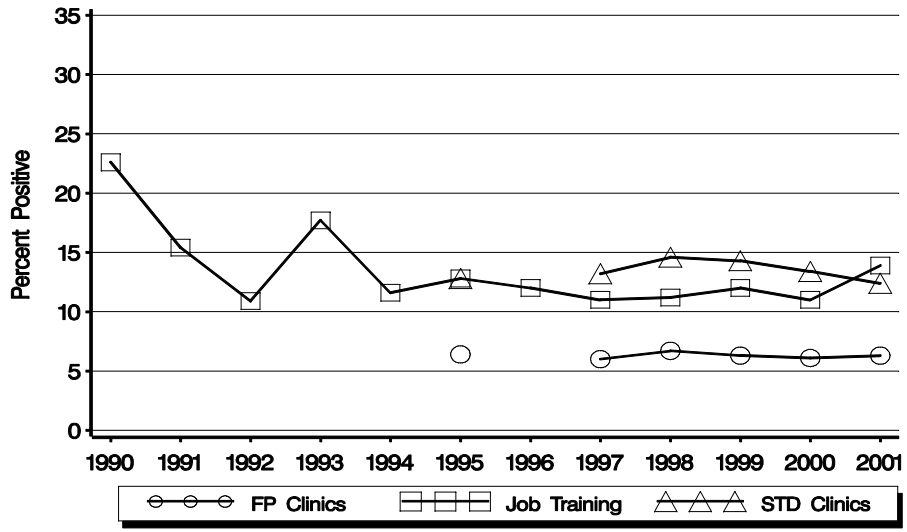
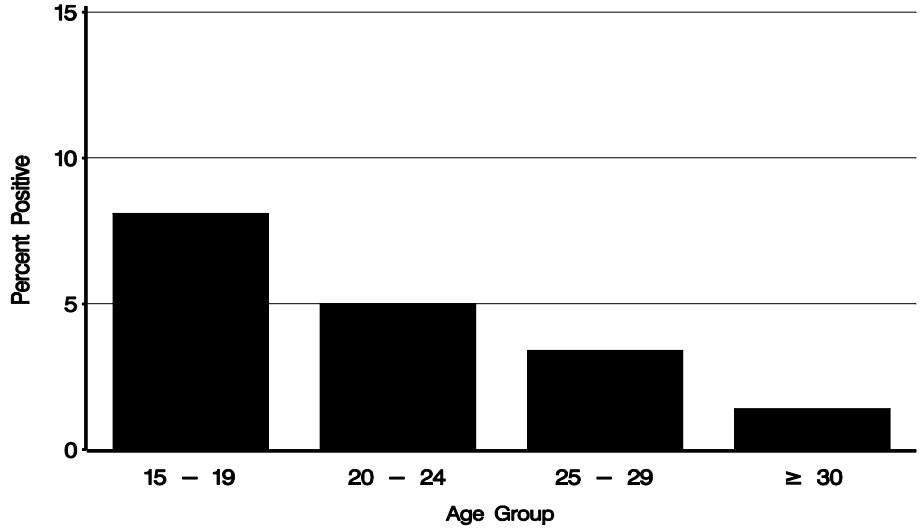


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	47	45799	5.4
STD	12	5057	8.5
Other	12	6102	2.2

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



New Mexico – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

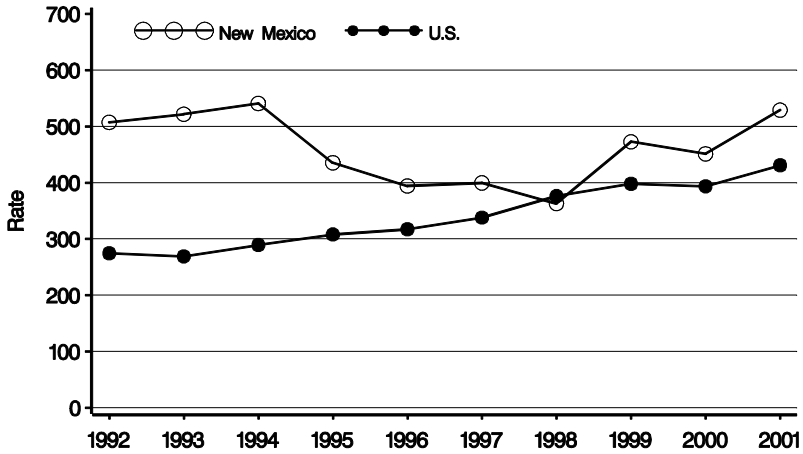


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

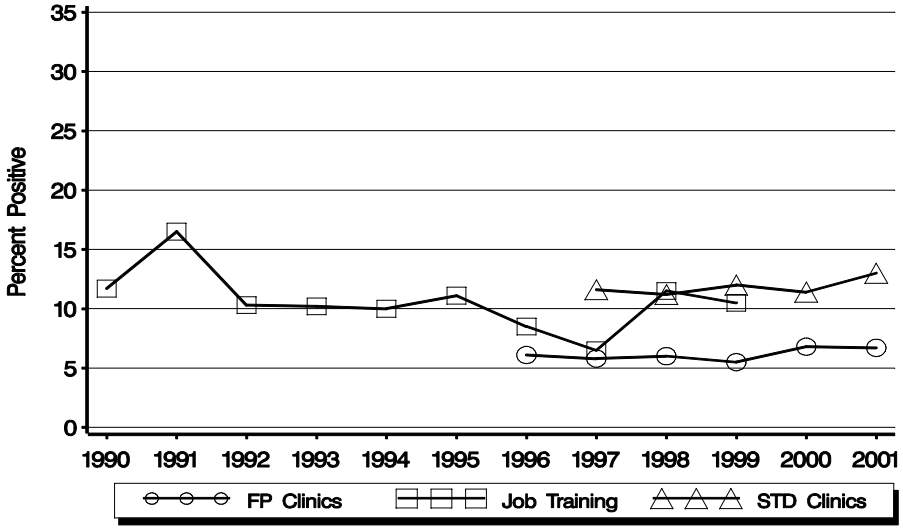
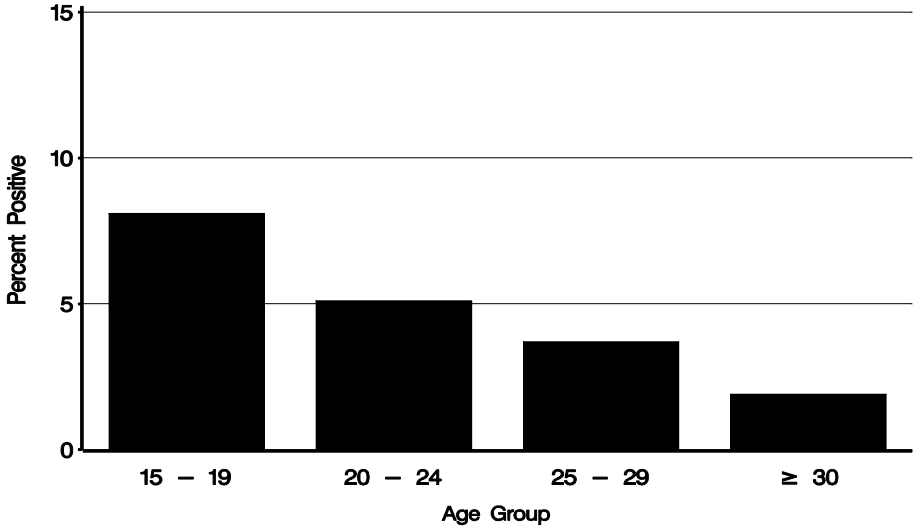


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

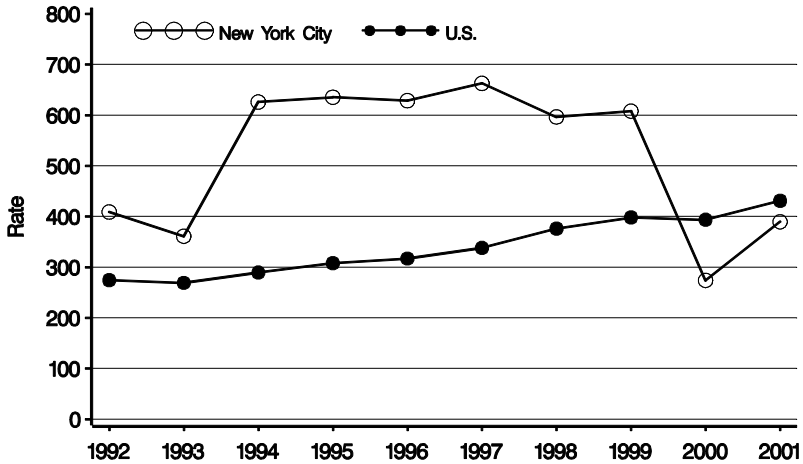
Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	51	8642	5.2
STD	31	4635	10.9
Prenatal	7	769	6.4
Juvenile Detention	1	155	5.8
IHS	5	3568	5.0
Other	2	363	6.3

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



New York – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001



NOTE: New York's rate for 1992–1999 is based on New York City. New York State case reporting may be incomplete for 2000.

Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

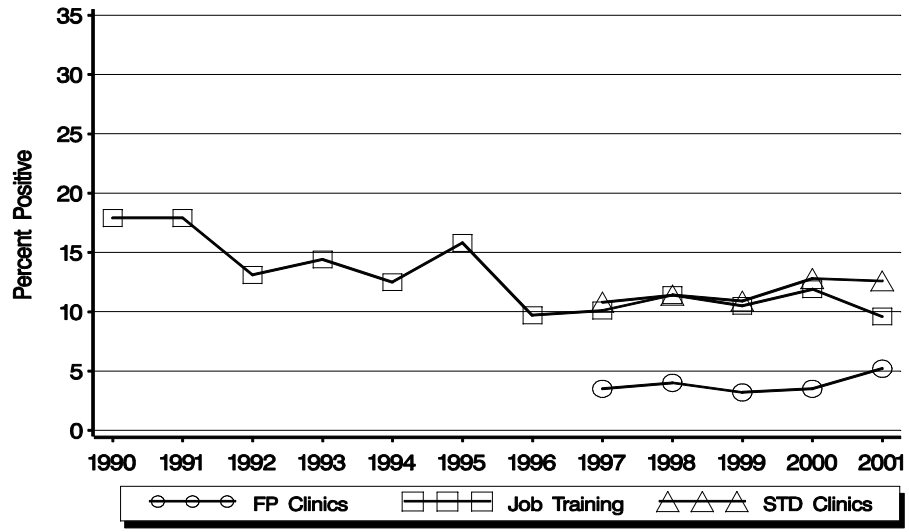
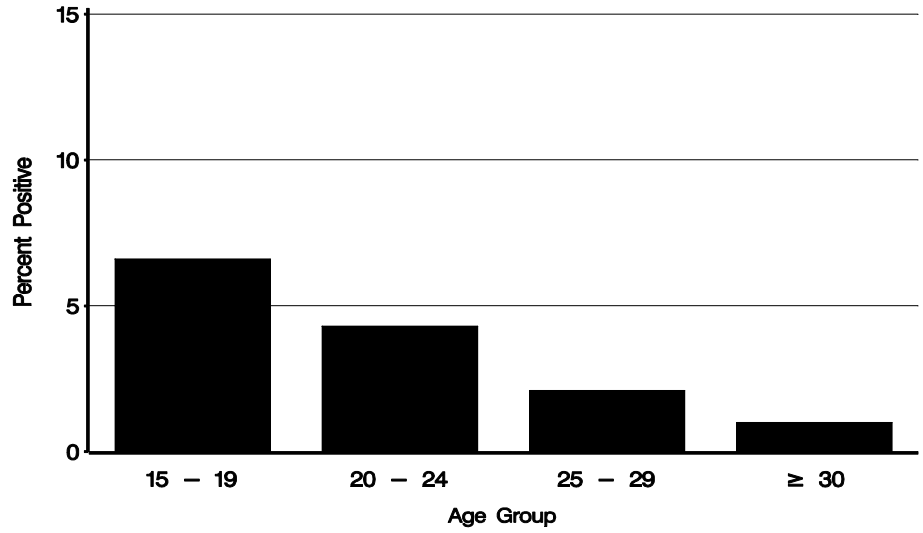


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	22	28050	3.6
STD	21	24933	8.2
Juvenile Detention	1	683	22.1
Other	25	9607	4.1

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Ohio – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

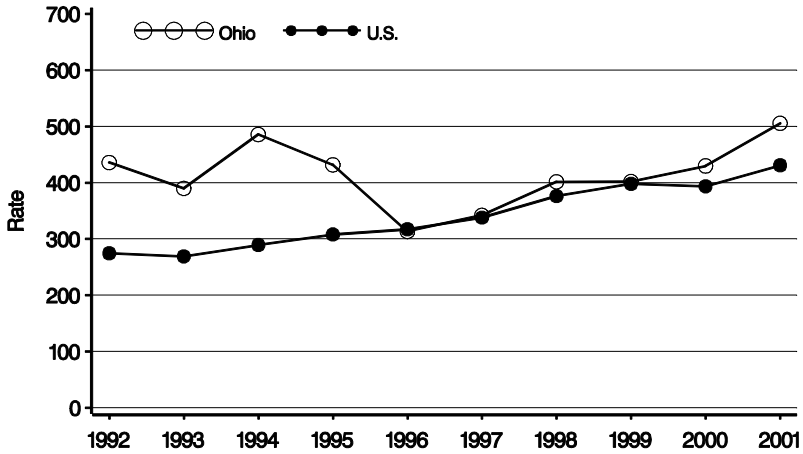


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

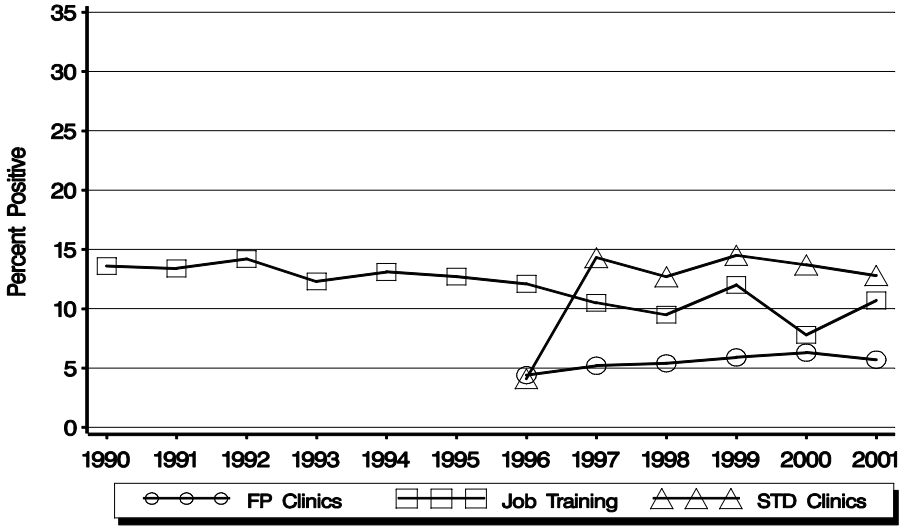
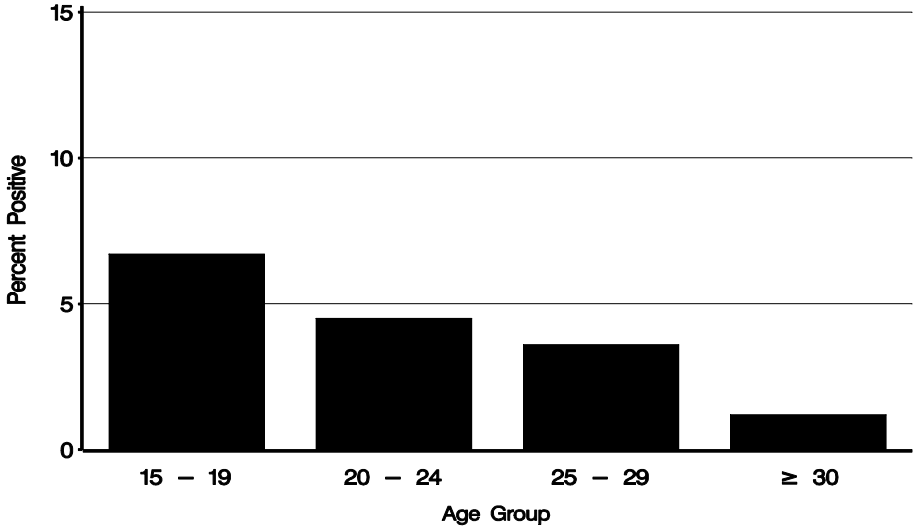


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	27	24013	4.8
STD	20	8224	9.2
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Oklahoma – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

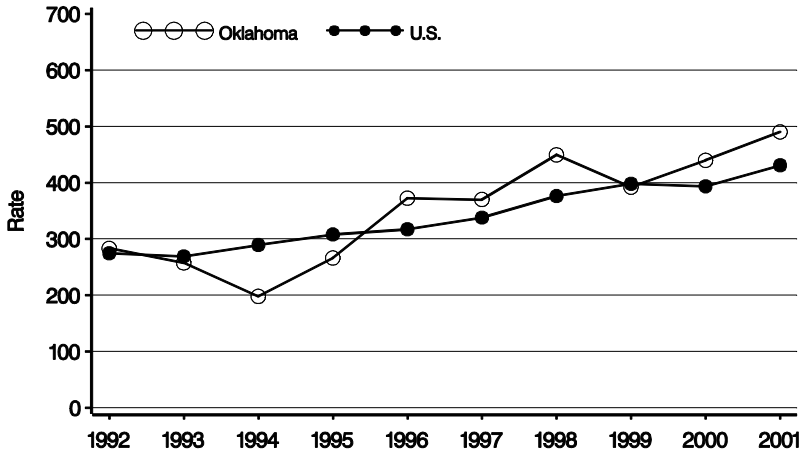


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

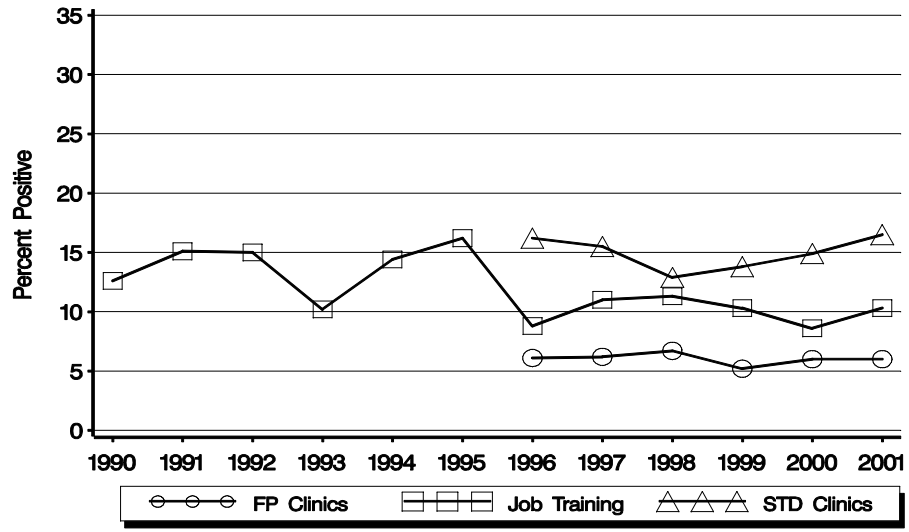
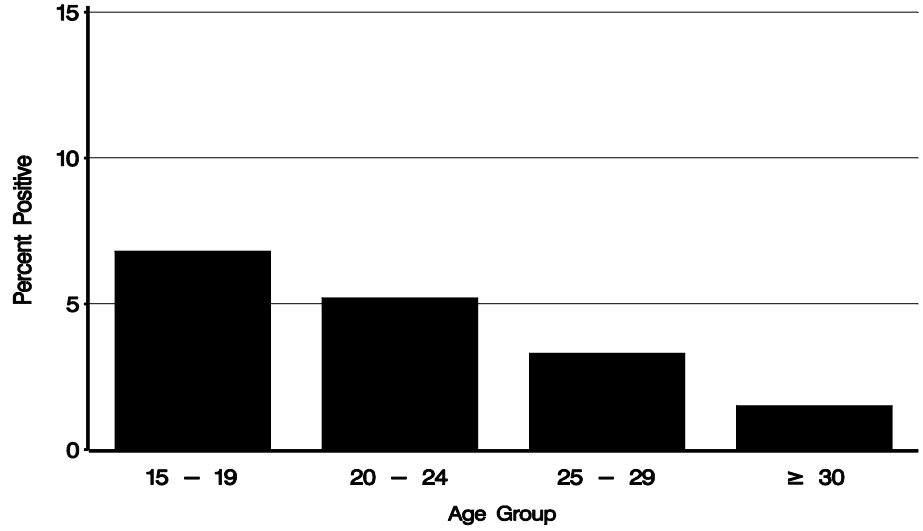


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	96	34005	5.3
STD	43	8773	12.0
Prenatal	27	4875	5.6
IHS	2	341	3.2
Other	2	134	5.2

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Oregon – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

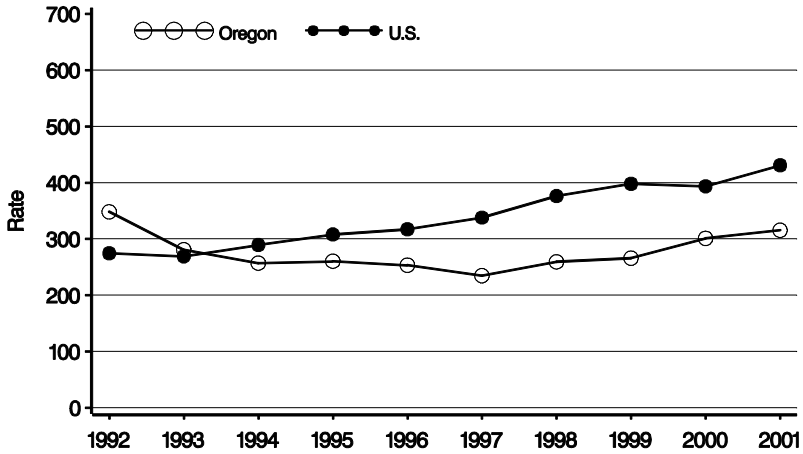


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

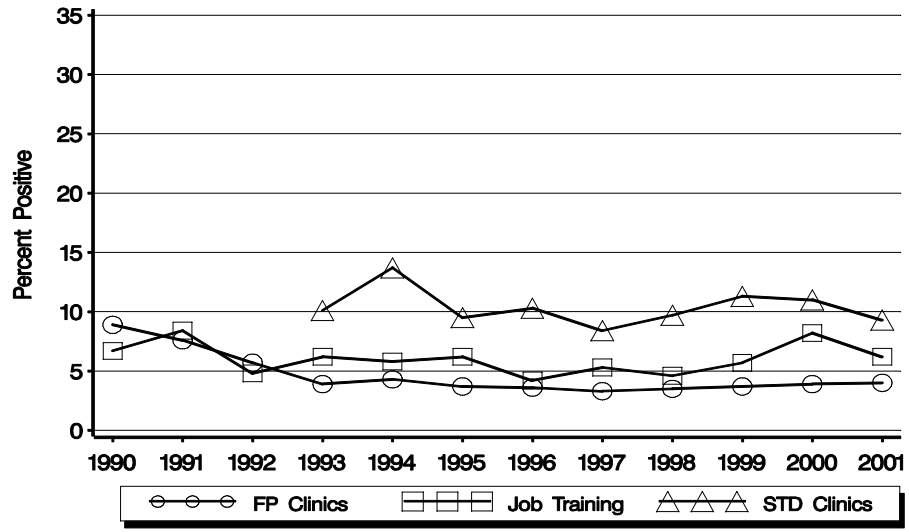
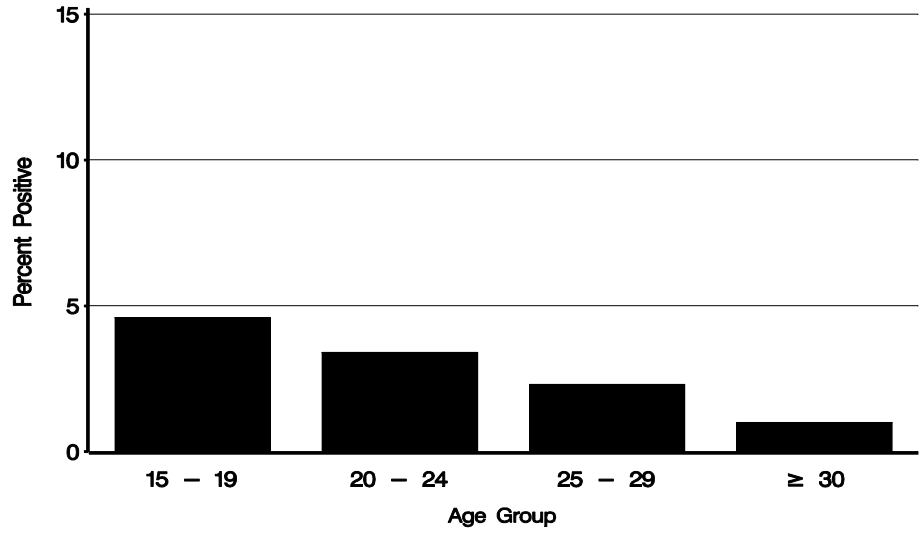


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	69	37908	3.3
STD	21	4309	6.7
Prenatal	9	1236	3.4
Juvenile Detention	1	161	8.1
Other	32	7106	3.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Pennsylvania – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

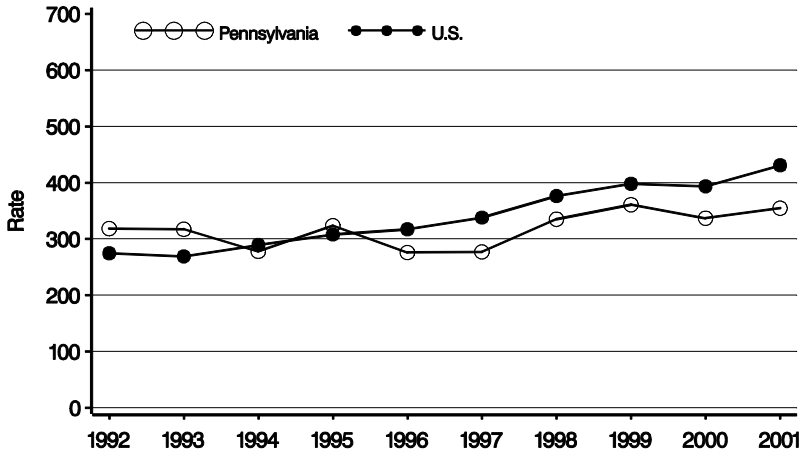


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

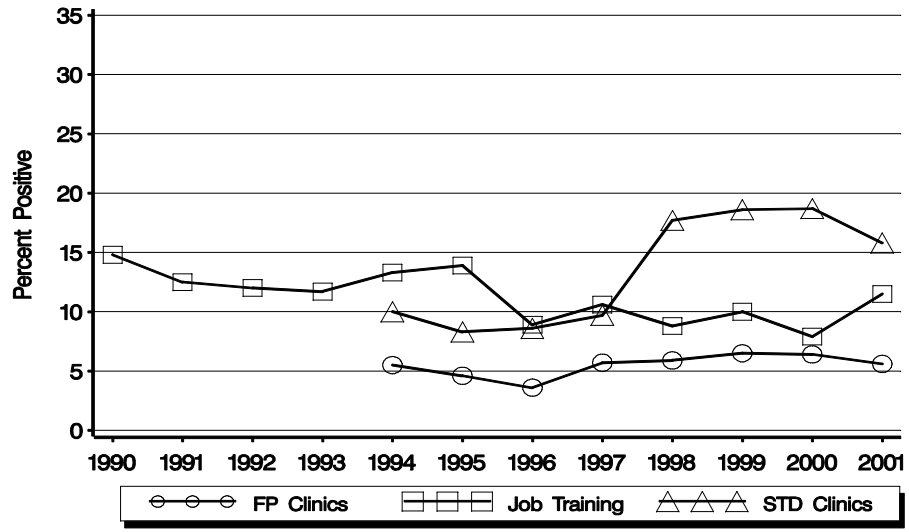
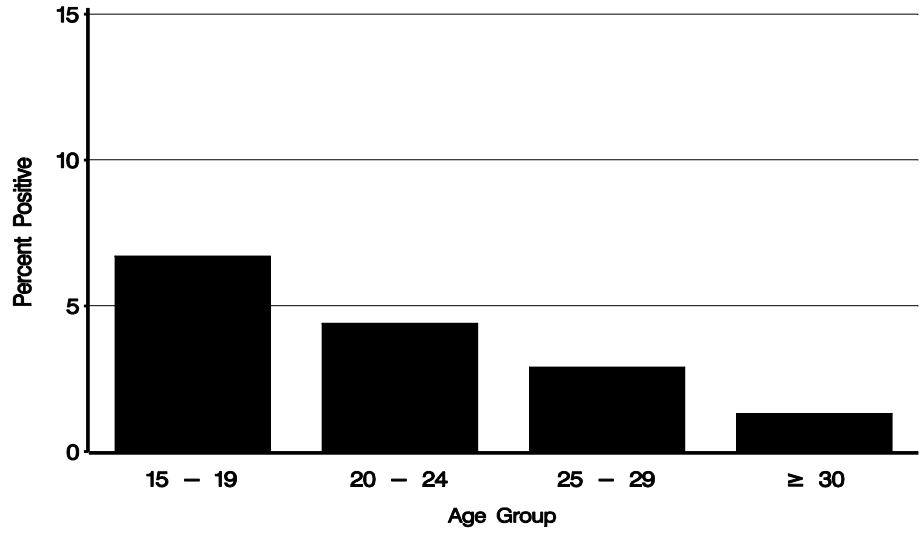


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	173	132277	4.6
STD	19	8032	10.9
Adult Corrections	2	1281	6.8
Juvenile Detention	1	1058	12.1
Other	25	4995	5.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Puerto Rico – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

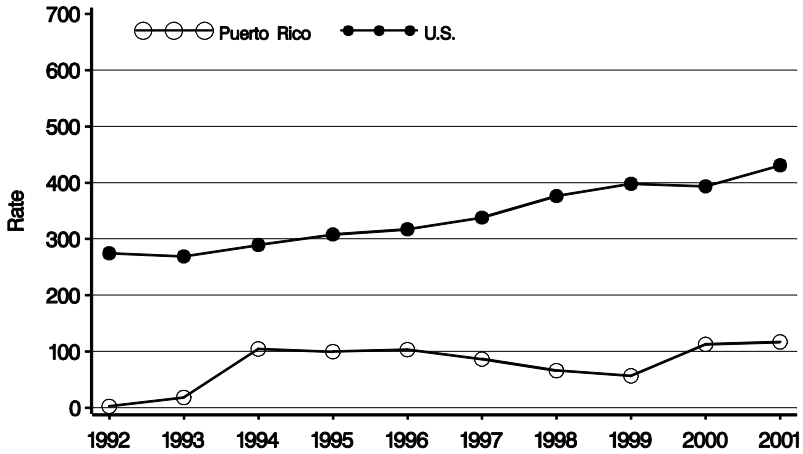


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

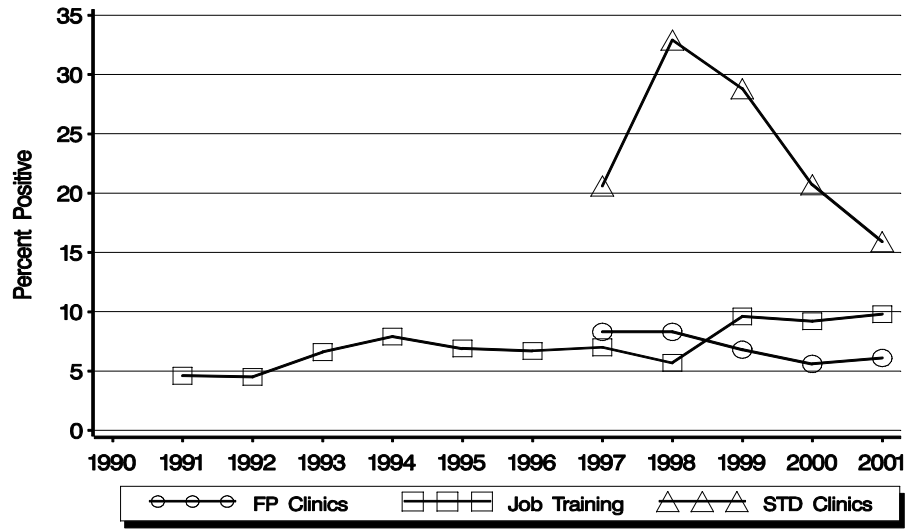
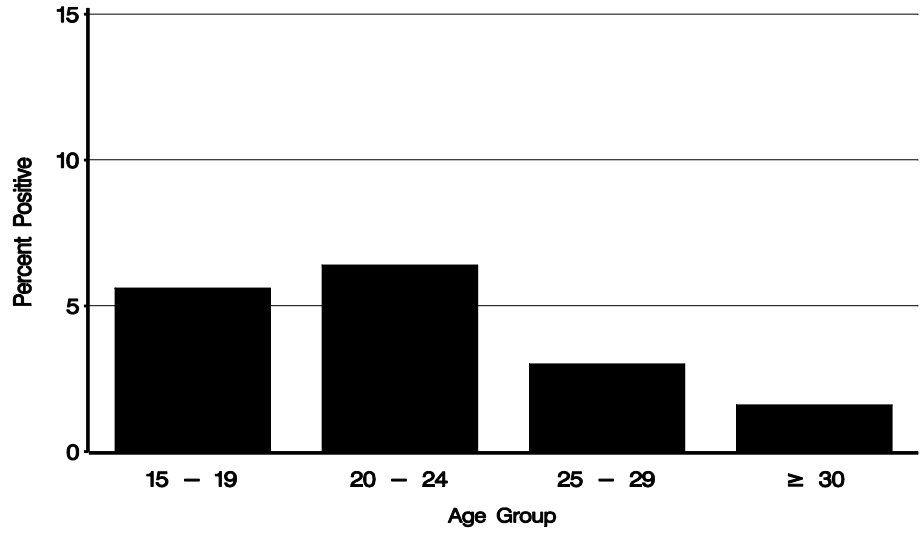


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	30	3872	4.5
STD	4	545	12.3
Prenatal	24	3080	7.2
Other	40	4764	3.7

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Rhode Island – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

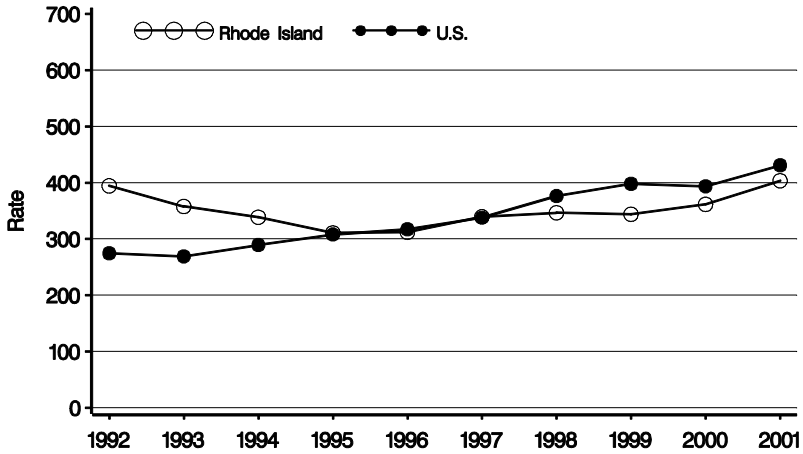


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

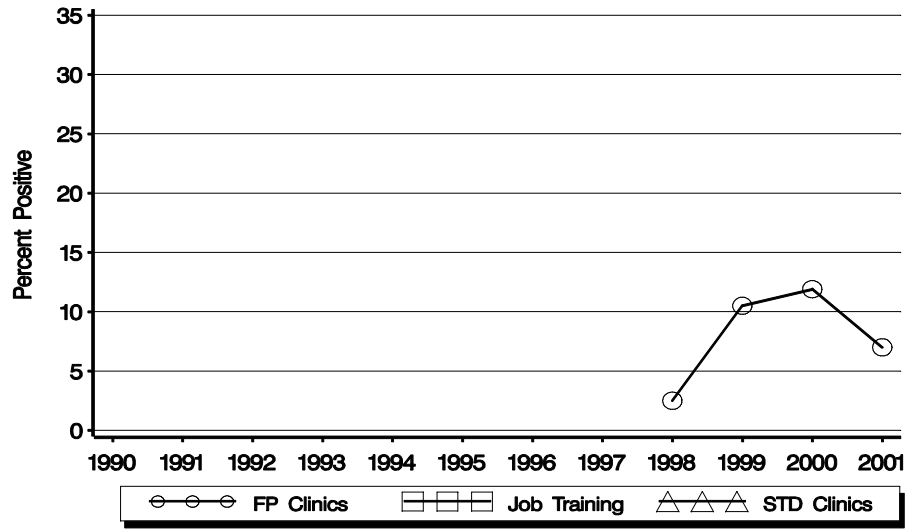
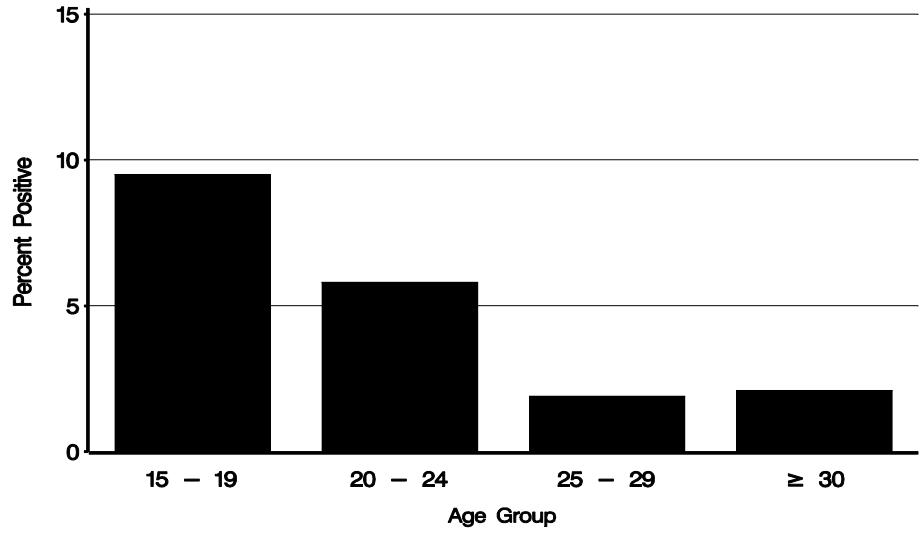


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	5	1097	6.1
STD	NA	NA	NA
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



South Carolina – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

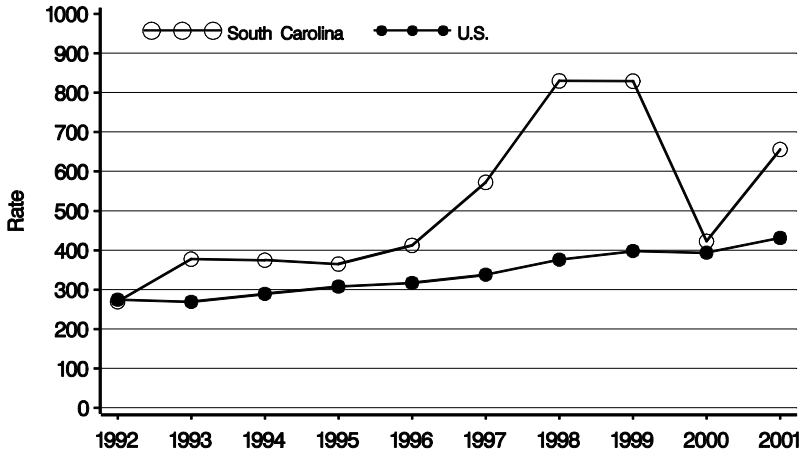


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

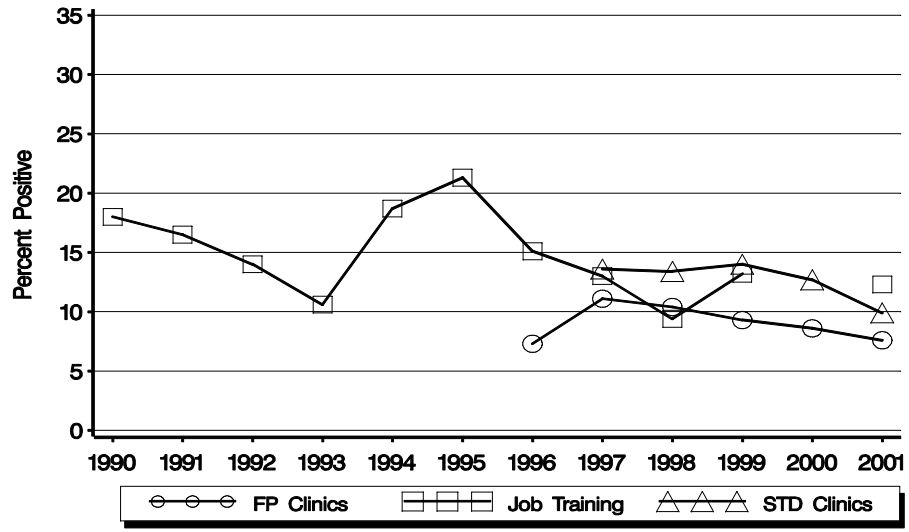
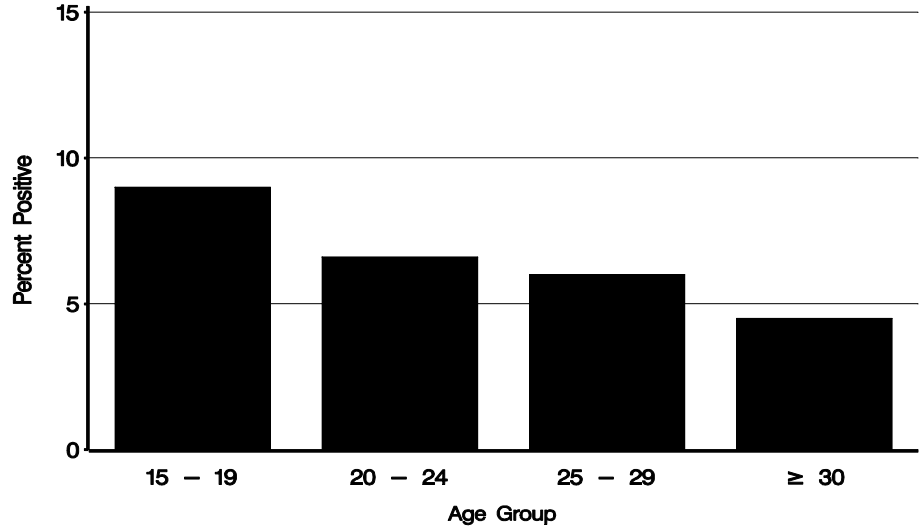


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	81	48355	7.2
STD	59	15218	8.3
Prenatal	10	1944	7.2
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



South Dakota – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

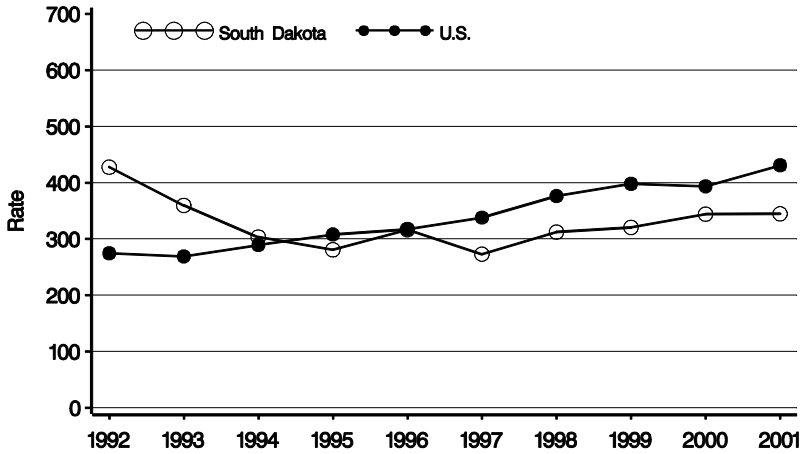


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

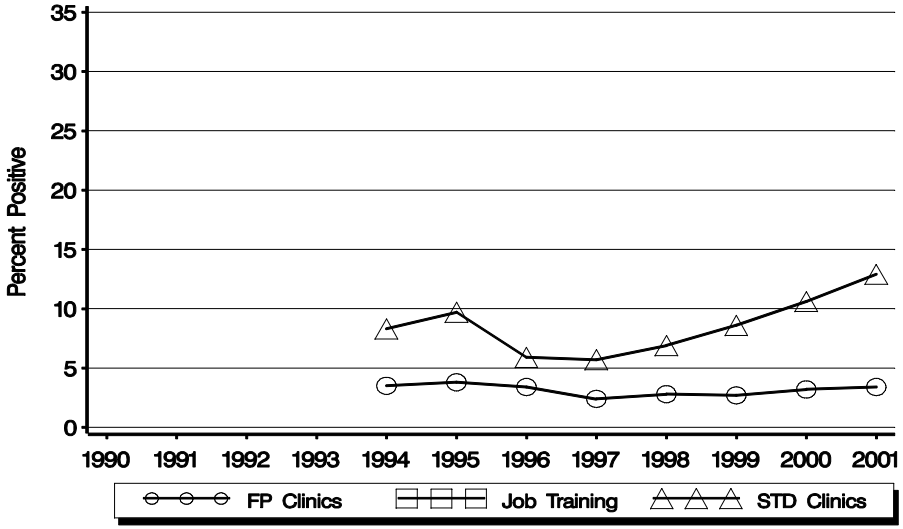
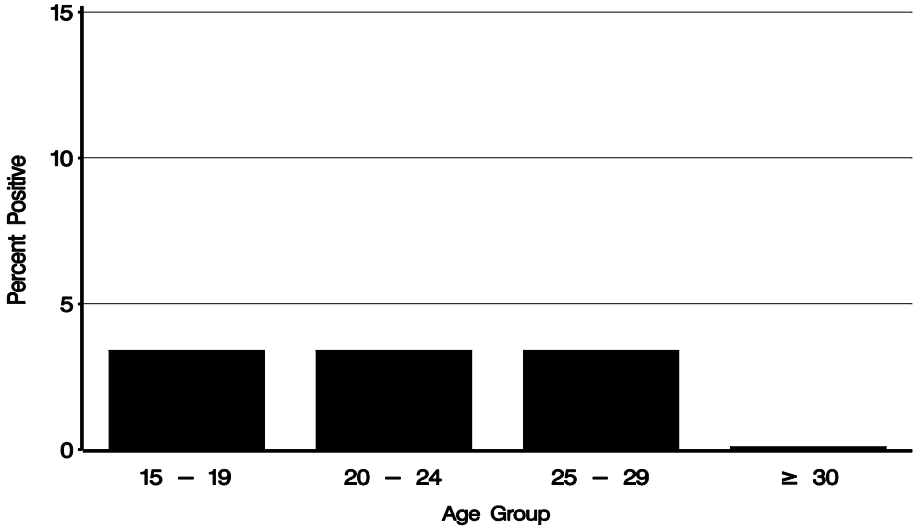


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	10	2916	3.2
STD	4	689	10.2
IHS	11	7952	7.0
Other	11	6298	6.4

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Tennessee — 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

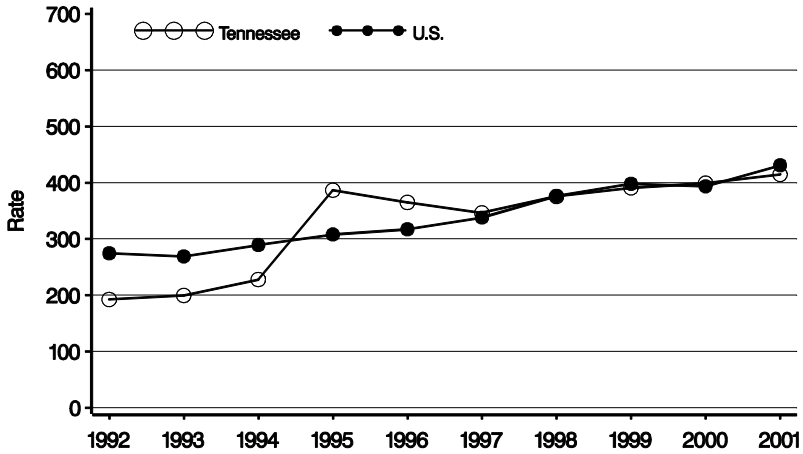


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

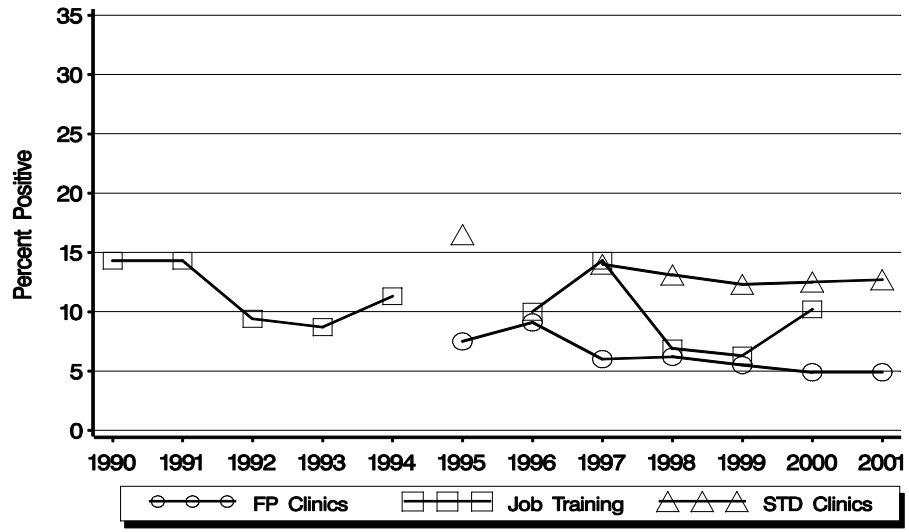
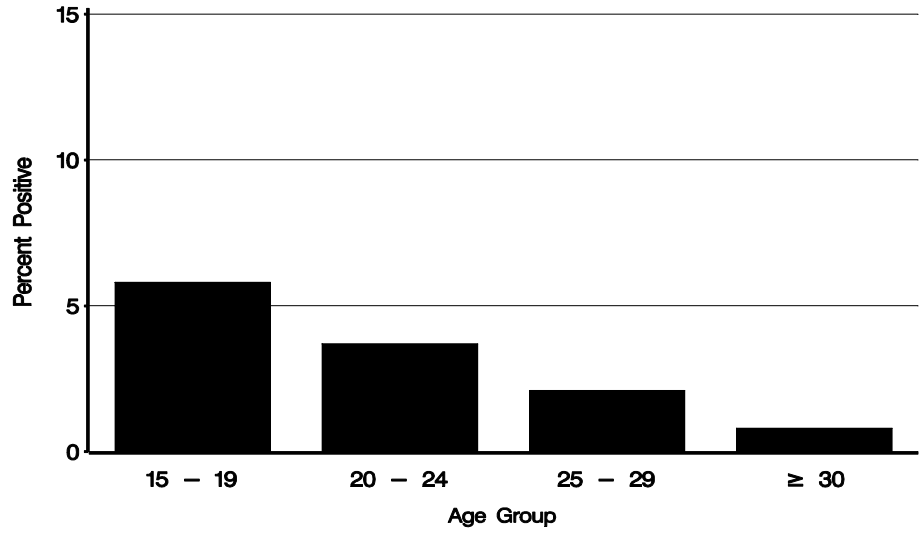


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	106	43803	3.9
STD	80	18750	8.8
Prenatal	11	1669	5.1
Adult Corrections	1	210	0.5
Other	19	11777	6.1

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Texas — 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

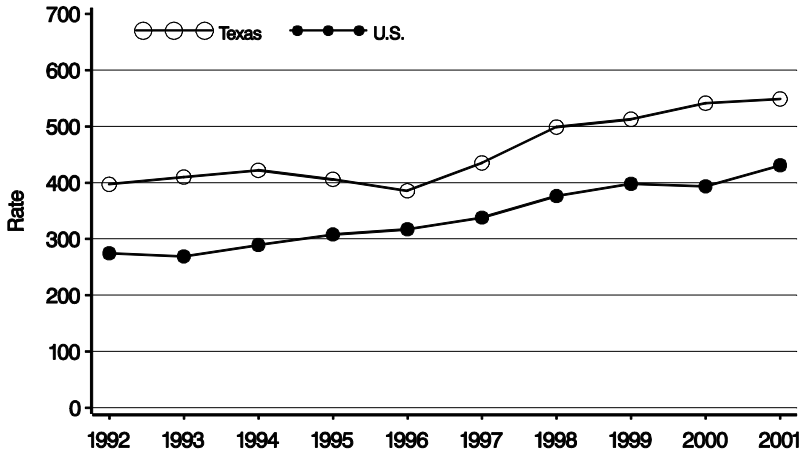


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

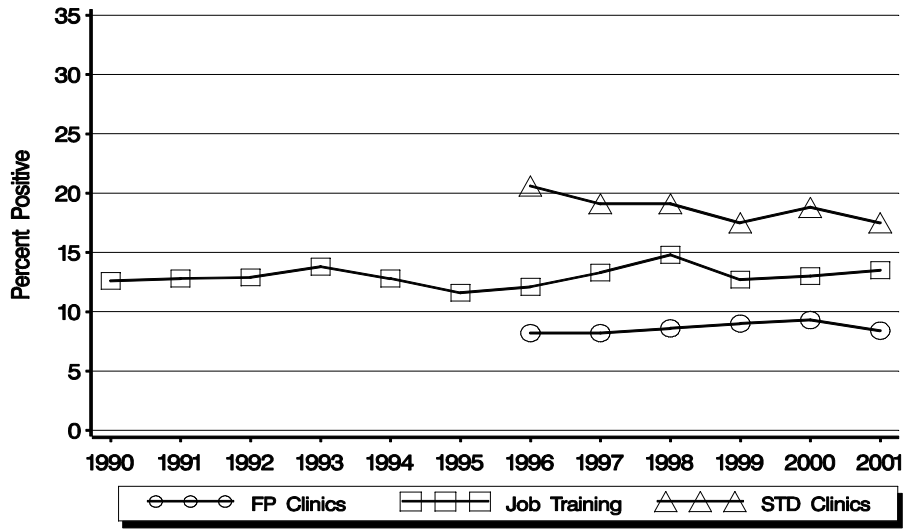
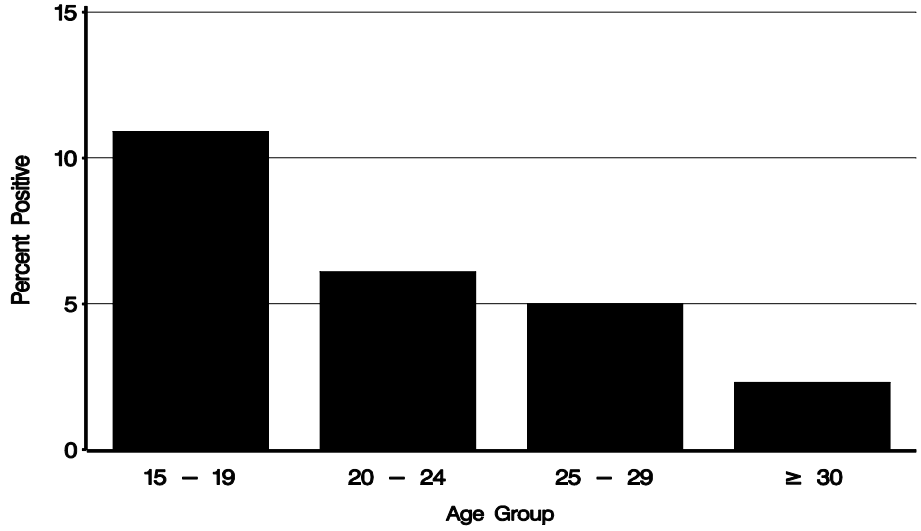


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	12	13563	7.0
STD	8	20222	11.5
Juvenile Detention	4	3078	17.0
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Utah – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

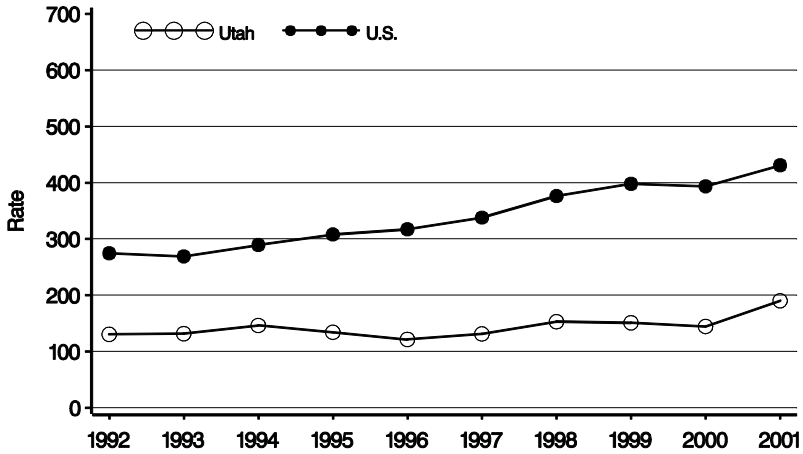


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

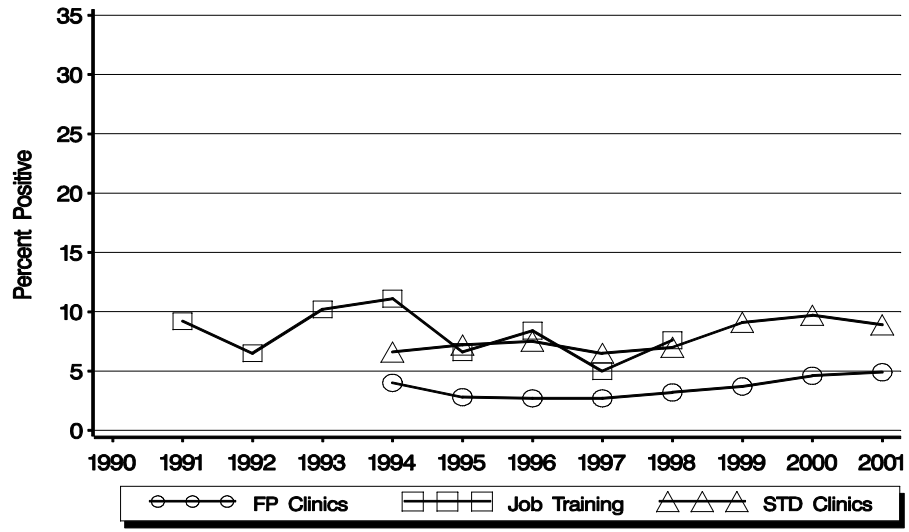
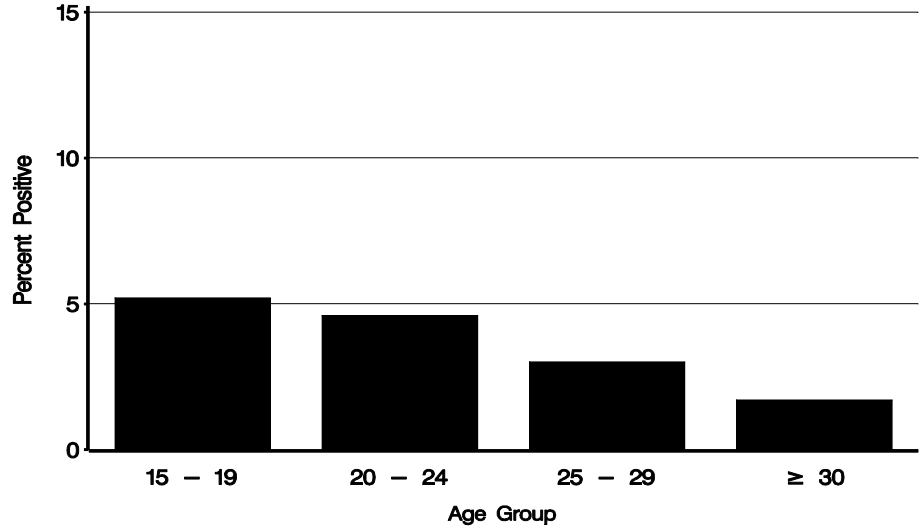


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	11	7647	4.2
STD	9	2917	6.5
Adult Corrections	2	251	9.6
Other	16	1638	3.8

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Virginia – 2001

Figure A. Chlamydia rate per 100,000 women, 1992 – 2001

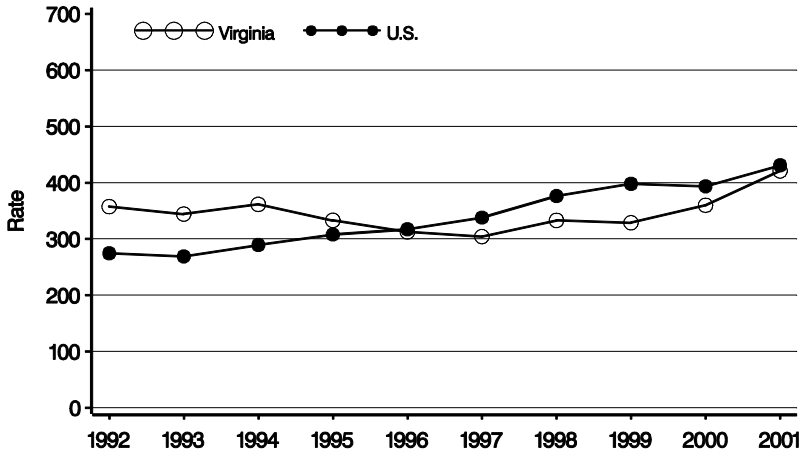


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990 – 2001

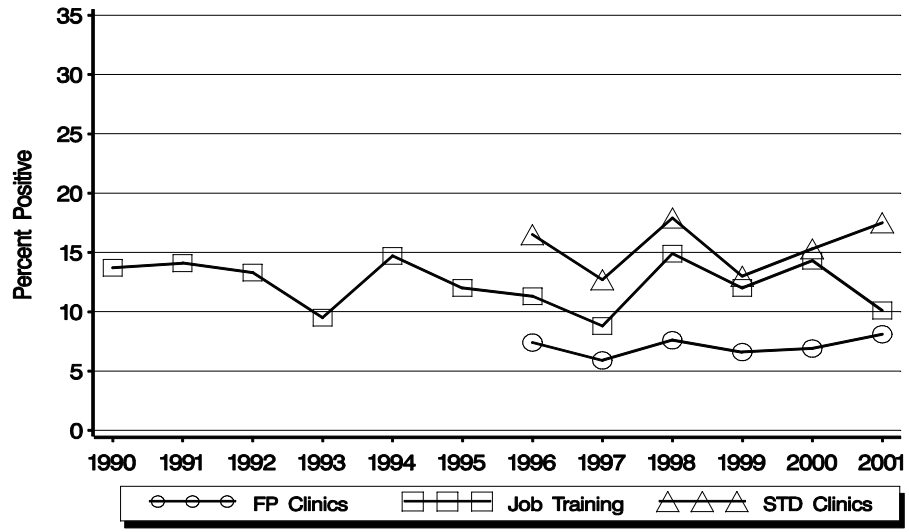
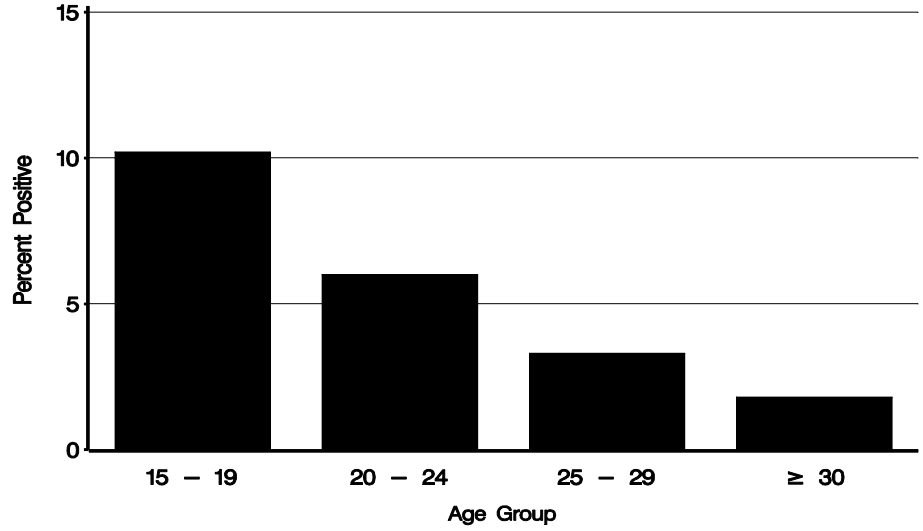


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	103	32445	6.1
STD	33	11017	12.7
Prenatal	49	9540	8.2
Other	21	8506	5.9

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Virgin Islands – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

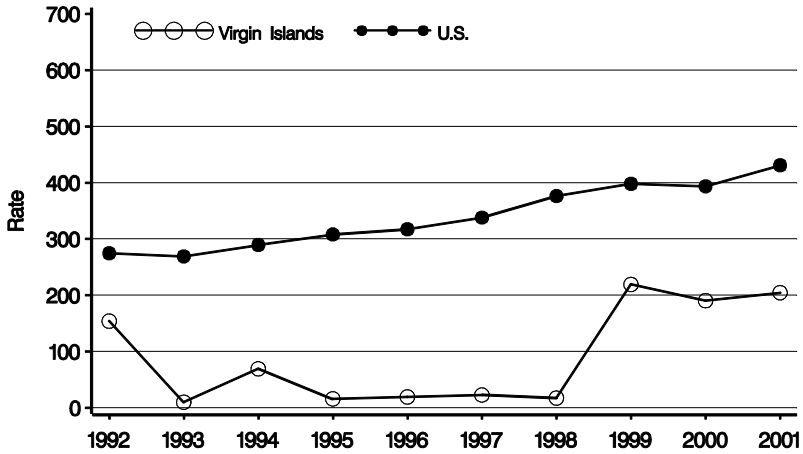


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

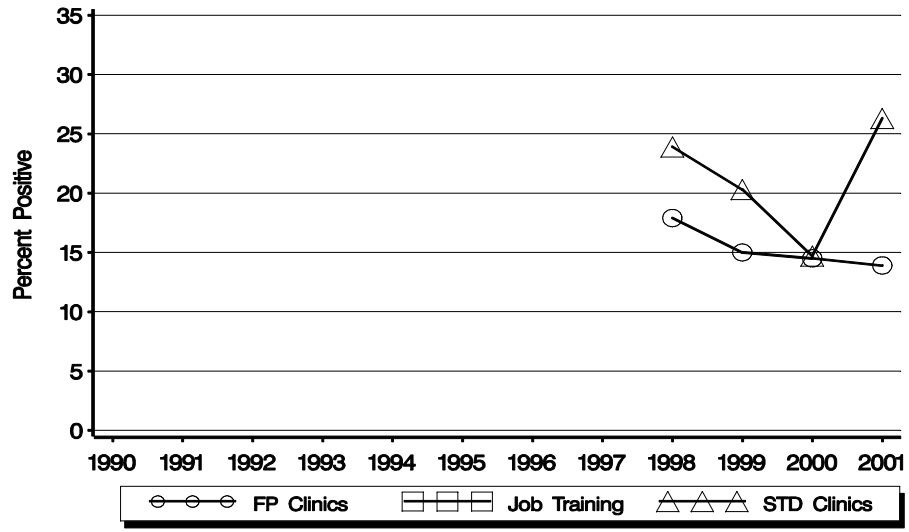
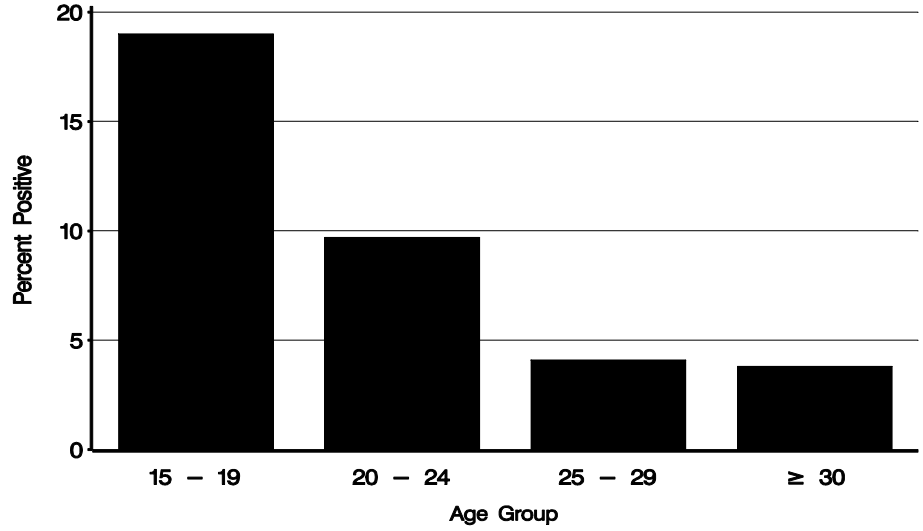


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	3	1199	10.2
STD	1	208	19.7
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Vermont – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

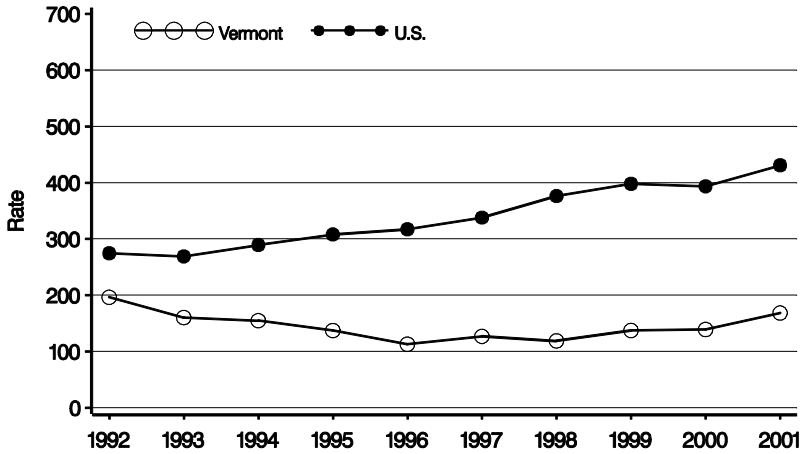


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

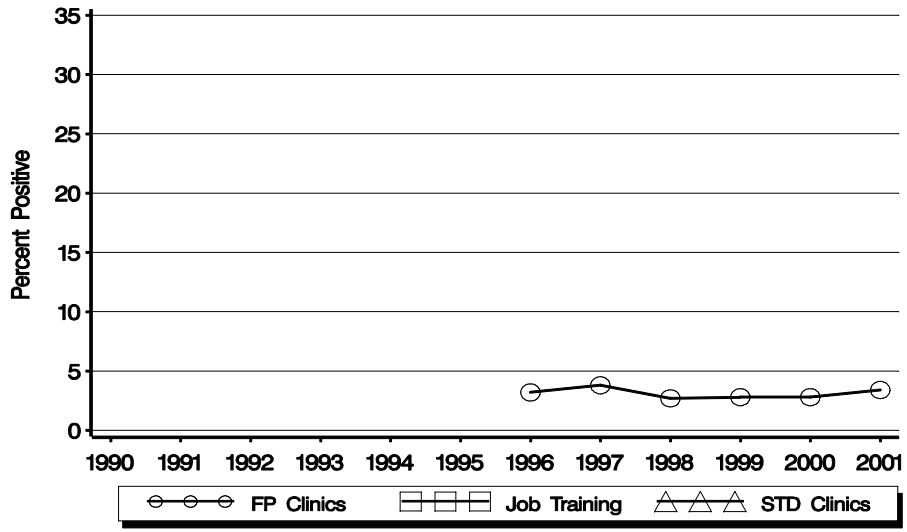
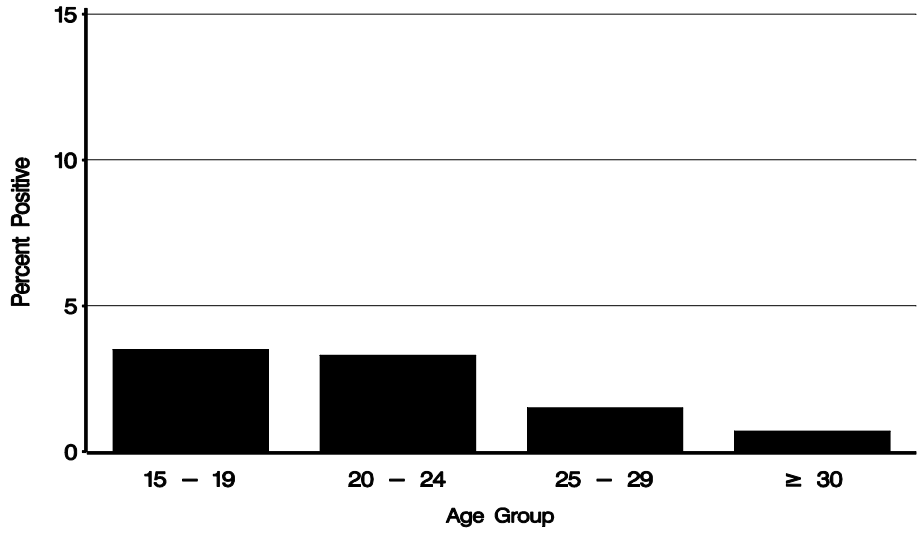


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	13	7267	2.7
STD	NA	NA	NA
Other	NA	NA	NA

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Washington – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

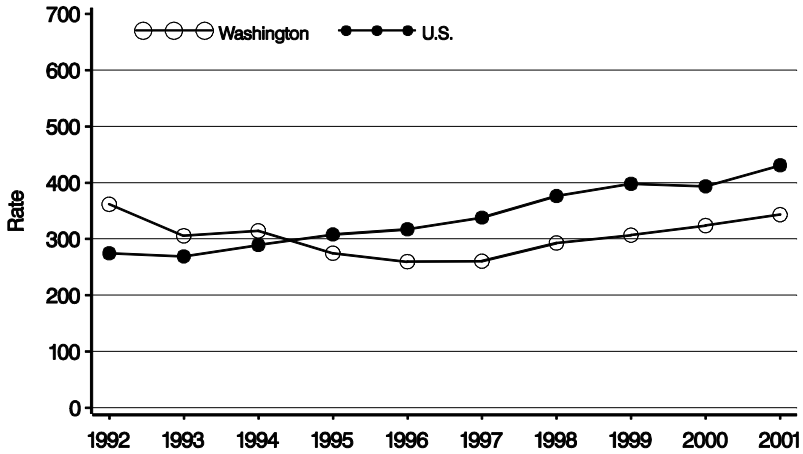


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

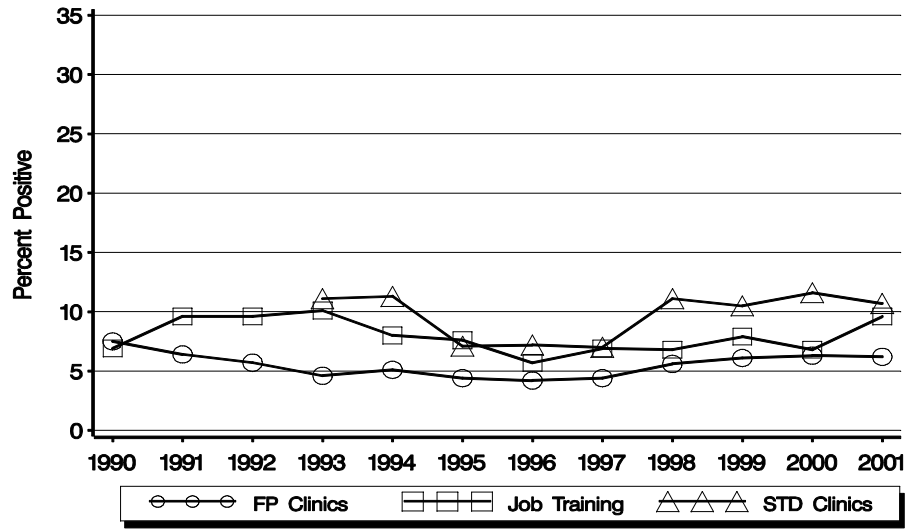
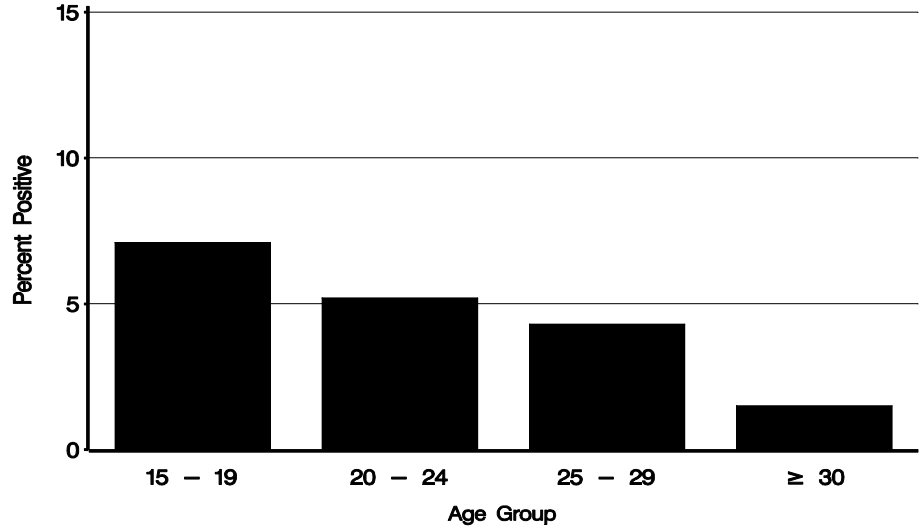


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	66	46351	5.4
STD	13	3909	6.6
Adult Corrections	1	843	2.5
Juvenile Detention	1	133	24.1
Other	27	9084	5.3

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



West Virginia – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

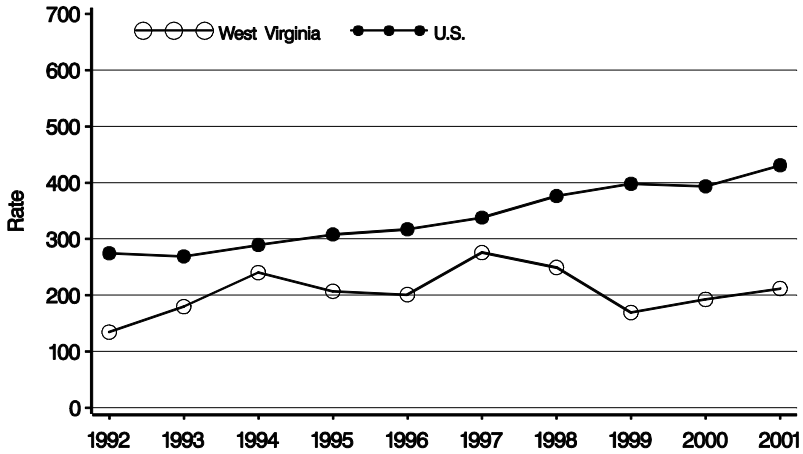


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

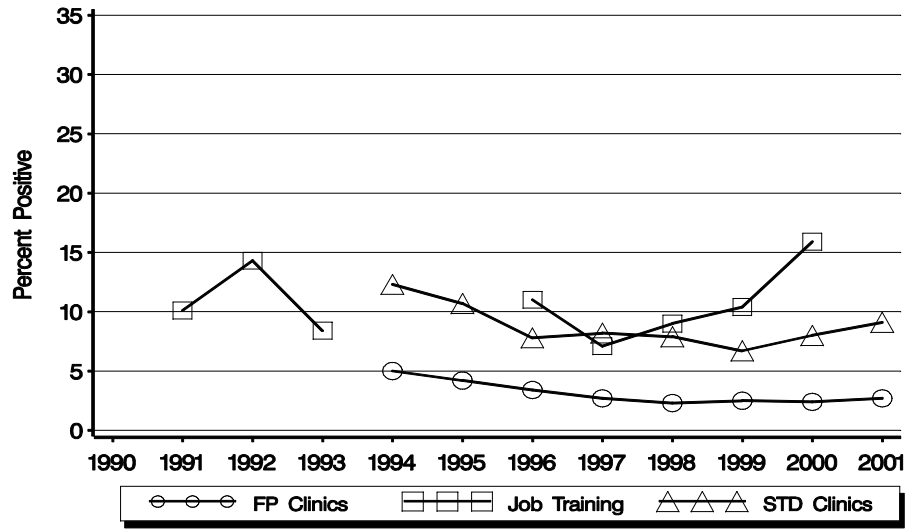
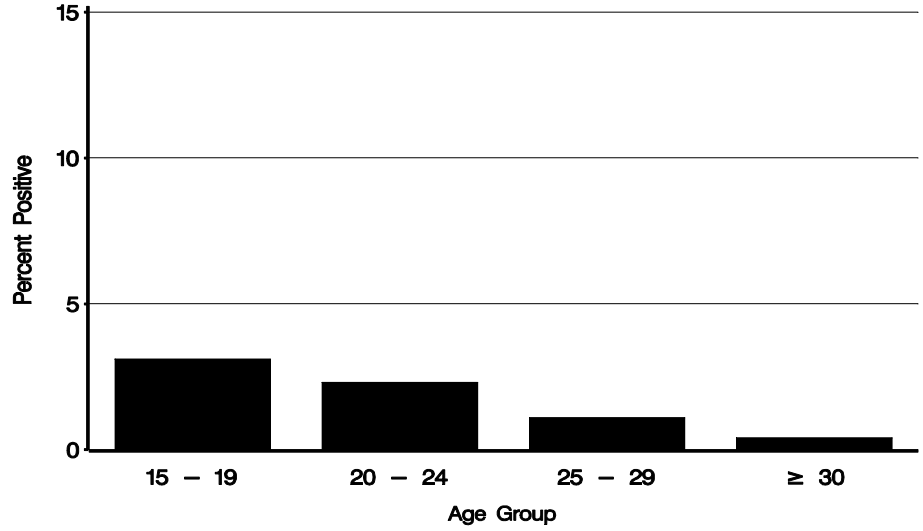


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	57	26317	2.1
STD	13	2550	6.4
Prenatal	2	637	3.8
Other	51	11099	2.6

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Wisconsin — 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

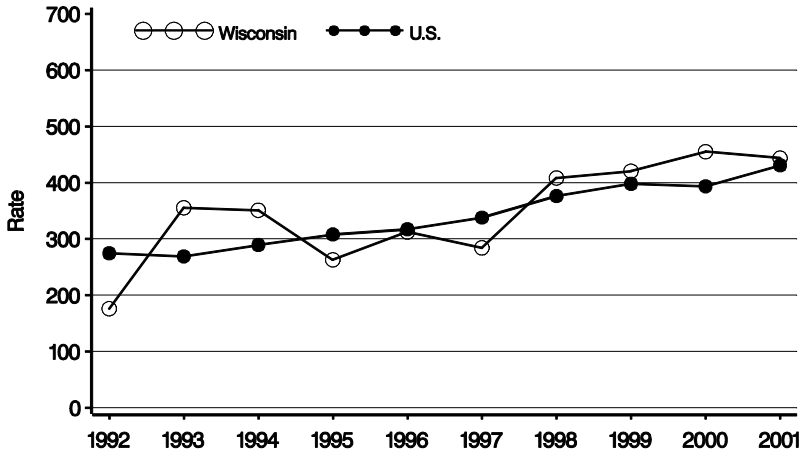


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

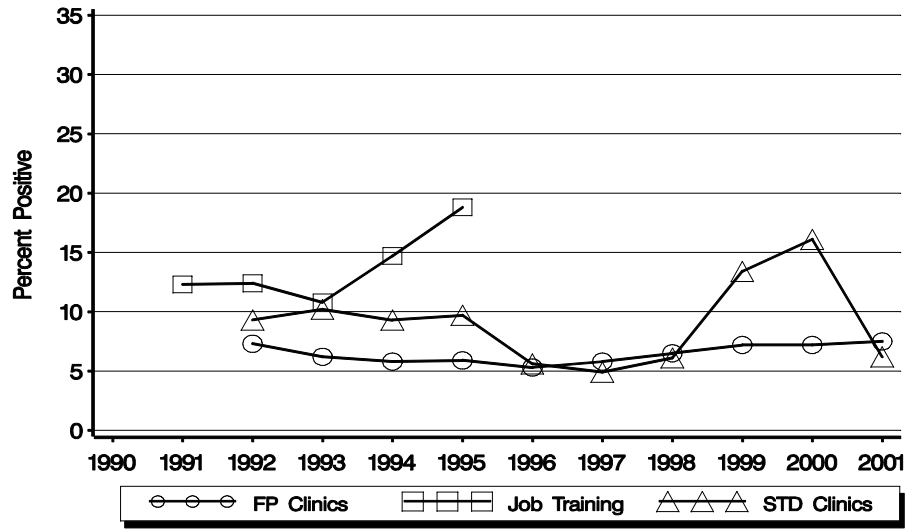
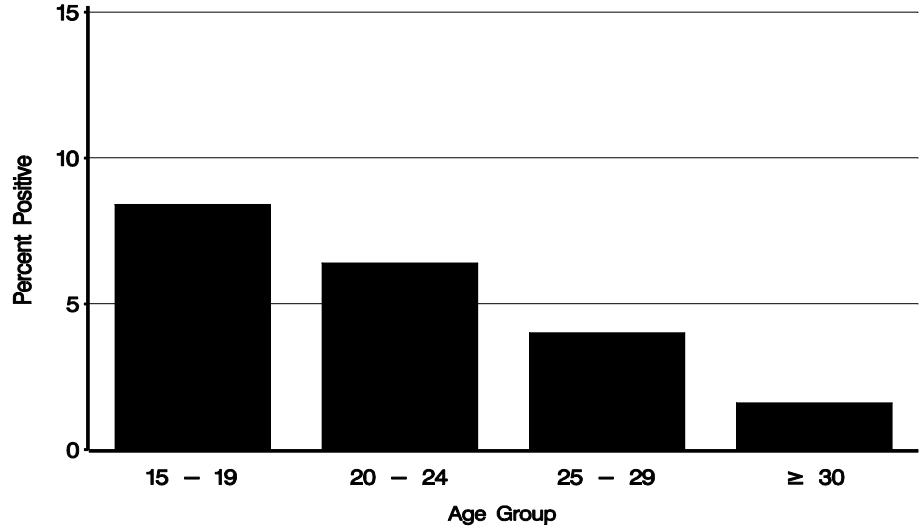


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	61	26474	6.4
STD	10	7040	5.5
Adult Corrections	3	1019	5.7
Juvenile Detention	2	422	21.5
Other	15	6158	6.3

Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001



Wyoming – 2001

Figure A. Chlamydia rate per 100,000 women, 1992–2001

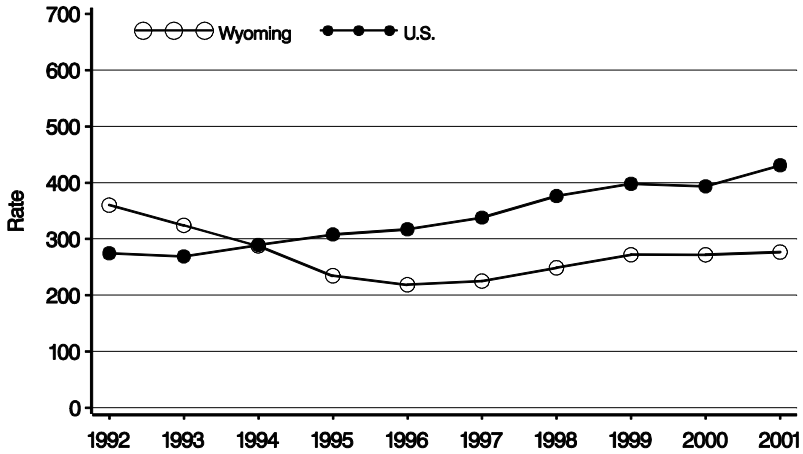


Figure B. Chlamydia positivity among women 15 to 24 years by testing site, 1990–2001

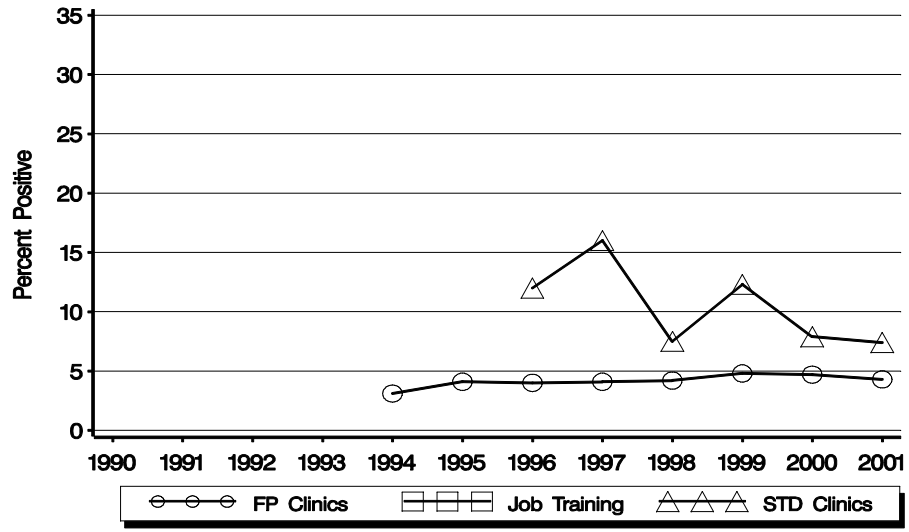


Table 1. Chlamydia positivity among women 15 to 44 years by testing site, 2001

Testing Site	No. Clinics	No. Tested	Percent Positive
Family Planning	18	5083	3.9
STD	2	250	6.4
Other	4	1144	4.2

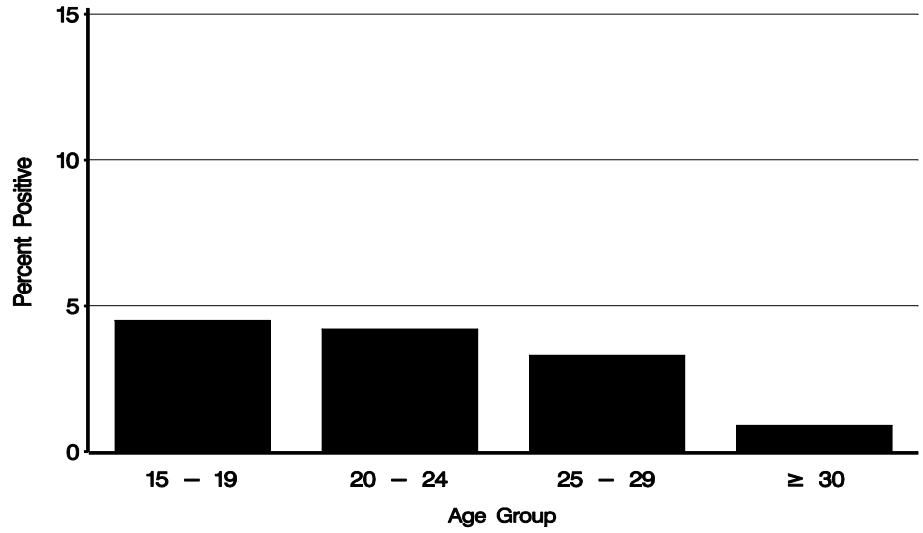



Figure C. Chlamydia positivity by age group among women attending family planning clinics, 2001