

Sexually Transmitted Disease Surveillance 2014

**Division of STD Prevention
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Web Site

The online version of this report is available at <http://www.cdc.gov/std/stats>.

Selected STD Surveillance and Prevention References and Web Sites

STD Surveillance Reports 1993–2013

<http://www.cdc.gov/std/stats/>

STD Data in the NCHHSTP Atlas

<http://www.cdc.gov/nchhstp/atlas/>

STD Data on Wonder

<http://wonder.cdc.gov/std.html>

STD Data Management & Information Technology

<http://www.cdc.gov/std/Program/data-mgmt.htm>

STD Fact Sheets

http://www.cdc.gov/std/healthcomm/fact_sheets.htm

STD Treatment Guidelines

<http://www.cdc.gov/STD/treatment/>

STD Program Evaluation Guidelines

<http://www.cdc.gov/std/program/pupestd.htm>

STD Program Operation Guidelines

<http://www.cdc.gov/std/program/GL-2001.htm>

Recommendations for Public Health Surveillance of Syphilis in the United States

<http://www.cdc.gov/std/SyphSurvReco.pdf>

Behavioral Surveillance

Youth Risk Behavior Surveillance System: <http://www.cdc.gov/HealthyYouth/yrbs/index.htm>

National Survey of Family Growth

<http://www.cdc.gov/nchs/nsfg.htm>

Foreword

“STDs are hidden epidemics of enormous health and economic consequence in the United States. They are hidden because many Americans are reluctant to address sexual health issues in an open way and because of the biologic and social characteristics of these diseases. All Americans have an interest in STD prevention because all communities are impacted by STDs and all individuals directly or indirectly pay for the costs of these diseases. STDs are public health problems that lack easy solutions because they are rooted in human behavior and fundamental societal problems. Many of the strongest predictors of health, including sexual health, are social, economic, and environmental. Providing information about personal health and health services can empower people to make healthier choices to protect their health. Indeed, there are many obstacles to effective prevention efforts. The first hurdle will be to confront the reluctance of American society to openly confront issues surrounding sexuality and STDs. Despite the barriers, there are existing

individual- and community-based interventions that are effective and can be implemented immediately. That is why a multifaceted approach is necessary at both the individual and community levels.

To successfully prevent STDs, many stakeholders need to redefine their mission, refocus their efforts, modify how they deliver services, and accept new responsibilities. In this process, strong leadership, innovative thinking, partnerships, and adequate resources will be required. The additional investment required to effectively prevent STDs may be considerable, but it is negligible when compared with the likely return on the investment. The process of preventing STDs must be a collaborative one. No one agency, organization, or sector can effectively do it alone; all members of the community must do their part. A successful national initiative to confront and prevent STDs requires widespread public awareness and participation and bold national leadership from the highest levels.”¹

¹ Eng TR, Butler WT, editors; Institute of Medicine (US). Summary: The hidden epidemic: confronting sexually transmitted diseases. Washington (DC): National Academy Press; 1997. p. 43.

Preface

Sexually Transmitted Disease Surveillance 2014 presents statistics and trends for sexually transmitted diseases (STDs) in the United States through 2014. This annual publication is intended as a reference document for policy makers, program managers, health planners, researchers, and others who are concerned with the public health implications of these diseases. The figures and tables in this edition supersede those in earlier publications of these data.

The surveillance information in this report is based on the following sources of data: (1) notifiable disease reporting from state and local STD programs; (2) projects that monitor STD positivity and prevalence in various settings, including the National Job Training Program, the STD Surveillance Network, and the Gonococcal Isolate Surveillance Project; and (3) other national surveys implemented by federal and private organizations.

The STD surveillance systems operated by state and local STD control programs, which provide the case report data for chlamydia, gonorrhea, syphilis, and chancroid, are the data sources of many of the figures and most of the statistical tables in this publication. These systems are an integral part of program management at all levels of STD prevention and control in the United States. Because of incomplete diagnosis and reporting, the number of STD cases reported to the Centers for Disease Control and Prevention is less than the actual number of cases occurring in the U.S. population. National summary data of case reports for other STDs are not available because they are not nationally notifiable diseases.

Beginning with the publication of *Sexually Transmitted Disease Surveillance 2010*, redistribution methodology is no longer applied to any of the data to account for cases missing race, sex or age. The counts presented in this report are summations of all valid data reported in reporting year 2014. Because missing data are excluded from calculations of rates by age group, race/ethnicity, and sex, incidence rates by these characteristics, particularly by race/ethnicity for chlamydia and gonorrhea, appear somewhat lower than in reports released for data prior to 2010.

The collection of information on race/ethnicity has been standardized since 1997 in the United States from the Office of Management and Budget (OMB). Following a revision in the National Electronic Telecommunication System for Surveillance (NETSS) implementation guide in April 2008, jurisdictions reporting STD data were to

collect race according to the OMB standard categories: American Indian or Alaska Native, Asian, black or African American, Hispanic or Latino, Native Hawaiian/Other Pacific Islander, white and multirace. While 49 states collect and report data for at least one STD in formats compliant with these standards as of 2014, some jurisdictions only recently adopted this standard and used previous standards to report their case data to CDC in past years. In 2014, one jurisdiction reported data for syphilis cases in compliance with OMB standards, but reported chlamydia and gonorrhea using an outdated standard. Consequently, historical trend and rate data by race/ethnicity displayed in figures and interpreted in this report for 2010–2014 include only those jurisdictions reporting in the current standard consistently for 2010 through 2014.

Sexually Transmitted Disease Surveillance 2014 consists of four sections: the National Profile, the Special Focus Profiles, the Tables, and the Appendix. The National Profile section contains figures that provide an overview of STD morbidity in the United States. The accompanying text identifies major findings and trends for selected STDs. The Special Focus Profiles section contains figures and text that describe STDs in selected populations that are a focus of national and state prevention efforts. The Tables section provides statistical information about STDs at county, metropolitan statistical area, regional, state, and national levels. The Appendix includes information on how to interpret the STD surveillance data used to produce this report, as well as information about *Healthy People 2020* STD objectives and progress toward meeting these objectives, Government Performance and Results Act goals and progress toward meeting these goals, and STD surveillance case definitions.

Any comments and suggestions that would improve future publications are appreciated and should be sent to:

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Guide to Acronyms

| | |
|---------|---|
| CDC | Centers for Disease Control and Prevention |
| CI | confidence interval |
| CIA | chemiluminescence immunoassay |
| CSF | cerebrospinal fluid |
| EIA | enzyme immunoassay |
| EP | ectopic pregnancy |
| FTA-ABS | fluorescent treponemal antibody absorbed |
| GISP | Gonococcal Isolate Surveillance Project |
| HEDIS | Healthcare Effectiveness Data and Information |
| HMOs | health maintenance organizations |
| HIV | human immunodeficiency virus |
| HP2020 | <i>Healthy People 2020</i> |
| HPV | human papillomavirus |
| HSV | herpes simplex virus |
| MHA-TP | microhemagglutination assay for antibody to <i>T. pallidum</i> |
| MICs | minimum inhibitory concentrations |
| MPC | mucopurulent cervicitis |
| MSA | metropolitan statistical area |
| MSM | gay, bisexual, and other men who have sex with men |
| MSW | men who have sex with women only |
| NAATs | nucleic acid amplification tests |
| NCHHSTP | National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention |
| NDTI | National Disease and Therapeutic Index |
| NGU | nongonococcal urethritis |
| NHANES | National Health and Nutrition Examination Survey |
| NJTP | National Job Training Program |
| OMB | Office of Management and Budget |
| P&S | primary and secondary |
| PCR | polymerase chain reaction |
| PID | pelvic inflammatory disease |
| RPR | rapid plasma reagin |
| SSuN | STD Surveillance Network |
| STD | sexually transmitted disease |
| TP-PA | <i>T. pallidum</i> particle agglutination |
| VDRL | Venereal Disease Research Laboratory |

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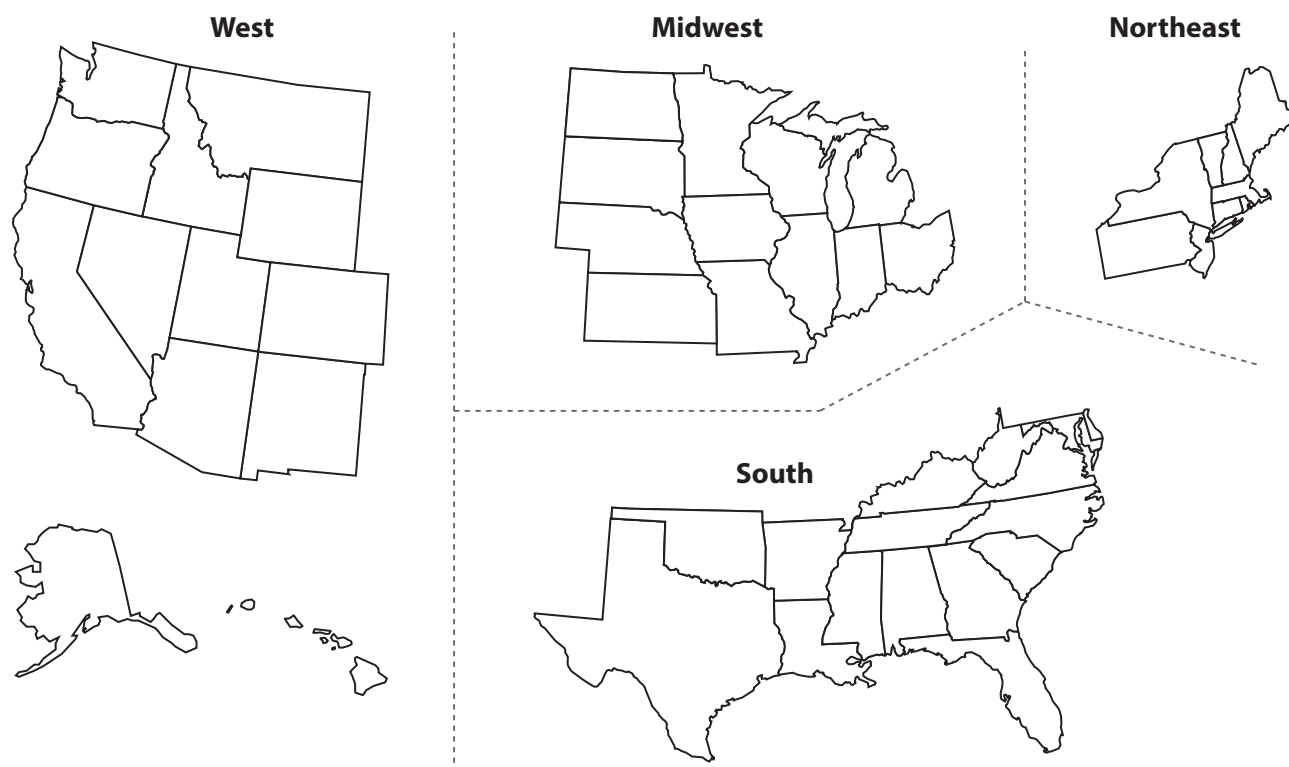
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Census Regions of the United States



West

Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
Oregon
Utah
Washington
Wyoming

Midwest

Illinois
Indiana
Iowa
Kansas
Michigan
Minnesota
Missouri
Nebraska
North Dakota
Ohio
South Dakota
Wisconsin

South

Alabama
Arkansas
Delaware
District of Columbia
Florida
Georgia
Kentucky
Louisiana
Maryland
Mississippi
North Carolina
Oklahoma
South Carolina
Tennessee
Texas
Virginia
West Virginia

Northeast

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Pennsylvania
Rhode Island
Vermont

National Overview of Sexually Transmitted Diseases (STDs), 2014

All Americans should have the opportunity to make choices that lead to health and wellness. Working together, interested, committed public and private organizations, communities, and individuals can take action to prevent sexually transmitted diseases (STDs) and their related health consequences. In addition to federal, state, and local public support for STD prevention activities, local community leaders can promote STD prevention education. Health care providers can assess their patients' risks and talk to them about testing. Parents can better educate their children about STDs and sexual health. Individuals can use condoms consistently and correctly, and openly discuss ways to protect their health with partners and providers. As noted in the Institute of Medicine report, *The Hidden Epidemic: Confronting Sexually Transmitted Diseases*, surveillance is a key component of all our efforts to prevent and control these diseases.¹

This overview summarizes national surveillance data for 2014 on the three notifiable diseases for which there are federally funded control programs: chlamydia, gonorrhea, and syphilis.

Chlamydia

In 2014, a total of 1,441,789 cases of *Chlamydia trachomatis* infection were reported to the CDC (Table 1). This case count corresponds to a rate of 456.1 cases per 100,000 population, an increase of 2.8% compared with the rate in 2013. This overall increase follows the first time since nationwide reporting for chlamydia began that the overall rate of reported cases of chlamydia decreased from 2011 to 2013. While the rate in women from 2013–2014 increased 1.3% and the rate in men increased 6.8%, the rate among women aged 15–19 years decreased 4.2%, continuing a decline in that group since 2011.

In 2014, the overall rate of chlamydial infection in the United States among women (627.2 cases per 100,000 females) based on reported cases was over two times the rate among men (278.4 cases per 100,000 males) (Tables 4 and 5), reflecting the larger number of women screened for this infection. However, with the increased availability of urine testing, men are increasingly being tested for chlamydial infection. During 2010–2014, the chlamydia rate in men increased 22%, compared with a 6% increase in women during this period.

Rates varied among different racial and ethnic minority populations. In 2014, the chlamydia rate in blacks was 6 times the rate in whites, and the rate among American Indians/Alaska Natives was almost 4 times the rate among whites.

Gonorrhea

In 2009, the national rate of reported gonorrhea cases reached an historic low of 98.1 cases per 100,000 population (Figure 12 and Table 1). However, during 2009–2012, the rate increased slightly each year, to 106.7 cases per 100,000 population in 2012. In 2013, the rate decreased to 105.3 cases per 100,000 population. But in 2014, a total of 350,062 gonorrhea cases were reported, and the national gonorrhea rate increased to 110.7 cases per 100,000 population.

The increase in gonorrhea rate during 2013–2014 was observed primarily among men (Figure 13). Gonorrhea rates among men increased in every region of the United States, while gonorrhea rates among women increased in the South and West but decreased in the Northeast and Midwest (Tables 15 and 16).

In 2014, the rate of reported gonorrhea cases remained highest among blacks (405.4 cases per 100,000 population) (Table 22B). The rate among blacks was 10.6 times the rate among whites (38.3 cases per 100,000 population). The gonorrhea rate among American Indians/Alaska Natives (159.4 cases per 100,000 population) was 4.2 times that of whites. While rates of gonorrhea during 2010–2014 have been declining among blacks, they have increased in all other racial/ethnic groups. In American Indian/Alaska Natives, they have increased 104% during this time period.

Antimicrobial resistance remains an important consideration in the treatment of gonorrhea. With increased resistance to the fluoroquinolones and declining susceptibility to cefixime, dual therapy with ceftriaxone and azithromycin is now the only CDC recommended treatment for gonorrhea.² In 2014, increases in minimum inhibitory concentrations (MICs) of cephalosporins (cefixime and ceftriaxone) were observed after decreases in 2012 and 2013 (Figures 26 and 27). While the percentage of isolates with reduced azithromycin susceptibility has remained stable (between 0.3% and 0.6% of all isolates tested) in previous years, between 2013 and 2014, this

percentage jumped up to 2.5% (Figure 28). Continued monitoring of susceptibility patterns to these antibiotics is critical.

Syphilis

In 2000 and 2001, the national rate of reported primary and secondary (P&S) syphilis cases was 2.1 cases per 100,000 population, the lowest rate since reporting began in 1941 (Figure 31, Table 1). However, the P&S syphilis rate has increased almost every year since 2000–2001. In 2014, a total of 19,999 P&S syphilis cases were reported, and the national P&S syphilis rate increased to 6.3 cases per 100,000 population, the highest rate since 1994.

During 2000–2014, the rise in the P&S syphilis rate was primarily attributable to increased cases among men and, specifically, among gay, bisexual, and other men who have sex with men (collectively referred to as MSM) (Figures 32 and 33). However, during 2013–2014, the rate increased both among men (14.4%) and among women (22.7%) (Tables 28 and 29). This increase among women is of particular concern because congenital syphilis cases tend to increase as the rate of P&S syphilis among women increases (Figure 46).

During 2013–2014, the overall male and female P&S syphilis rates increased in every region of the country (Figure 34, Tables 27–29). Nationally, P&S syphilis rates increased in every 5-year age group of those 15–44 years of age (Table 35) and in every race/ethnicity group except for Native Hawaiians/Other Pacific Islanders during 2013–2014 (Figure 40).

In 2014, men accounted for 91% of all cases of P&S syphilis. And, of those male cases for whom sex of sex partner was known, 83% were MSM. Reported cases of P&S syphilis continued to be characterized by a high rate of HIV co-infection, particularly among MSM. In 2014, 26 states reported both sex of sex partner and HIV status (HIV-positive or HIV-negative) for at least 70% of P&S syphilis cases (Figure 43). Among P&S syphilis cases with known HIV-status in these states, 51% of cases among MSM were HIV-positive, compared with 11% of cases among MSW, and 6% of cases among women.

Rates in women remained unchanged between 2011 and 2013 but increased 22% between 2013 and 2014. In 2014, 1,840 cases of P&S syphilis were reported in women compared with 1,500 in 2013. The 2013 rate of congenital syphilis (9.1 cases per 100,000 live births) marked the first increase in congenital syphilis since 2008. During 2013–2014, the rate increased 27.5%. There were 458 cases of congenital syphilis reported in 2014 compared with 359 in 2013 (Figure 46).

Significant racial and ethnic disparities in STD rates persist. In 2014, the P&S syphilis rate among blacks was 5.4 times the rate among whites (Figure 40). In some subgroups, however, disparities were even higher. The 2014 P&S syphilis rates among black and American Indian/Alaska Native women were between 9–10 times the rates for whites. (Table 36B). While rates of congenital syphilis increased in most race/ethnicity groups during 2013–2014, they were 10 times higher in blacks than in whites and over 3 times higher in Hispanics and in American Indian/Alaska Natives than in whites (Table 43).

¹ Eng TR, Butler WT, editors; Institute of Medicine (US). The hidden epidemic: confronting sexually transmitted diseases. Washington (DC): National Academy Press; 1997. p 43.

² Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines, 2015. MMWR Morb Mortal Wkly Rep 2015; 64(No. RR-3): 1–137.

NATIONAL PROFILE

NATIONAL PROFILE

National Profile

The National Profile section contains figures that show trends and the distribution of nationally reportable STDs (chlamydia, gonorrhea, syphilis, and chancroid) by age, sex, race/ethnicity, and location for the United States.

Chlamydia

Background

Chlamydia, caused by infection with *Chlamydia trachomatis*, is the most common notifiable disease in the United States. It is among the most prevalent of all STDs, and since 1994, has comprised the largest proportion of all STDs reported to CDC (Table 1). Studies also demonstrate the high prevalence of chlamydial infections in the general U.S. population, particularly among young women.^{1,2}

Chlamydial infections in women are usually asymptomatic. However, untreated infection can result in pelvic inflammatory disease (PID), which is a major cause of infertility, ectopic pregnancy, and chronic pelvic pain. Data from randomized controlled trials of chlamydia screening suggested that screening programs can lead to a reduction in the incidence of PID.^{3,4} As with other inflammatory STDs, chlamydial infection might facilitate the transmission of human immunodeficiency virus (HIV) infection.⁵ In addition, pregnant women infected with chlamydia can pass the infection to their infants during delivery, potentially resulting in neonatal ophthalmia and pneumonia. Because of the large burden of disease and risks associated with infection, CDC recommends that all sexually active women younger than age 25 years receive annual chlamydia screening.⁶

The Healthcare Effectiveness Data and Information Set (HEDIS) contains a measure which assesses chlamydia screening coverage of sexually active young women who receive medical care through commercial or Medicaid managed care organizations. Among sexually-active women aged 16–24 years in commercial plans, chlamydia screening increased from 23.1% in 2001 to 46.2% in 2013. Among sexually-active women aged 16–24 years covered by Medicaid, screening rates increased from 40.4% in 2001 to 58.0% in 2011, then decreased to 54.9% in 2013.⁷ Although chlamydia screening has expanded over the past two decades, many women who are at risk are still not being tested—reflecting, in part, the lack of awareness among some health care providers and the limited resources available to support these screenings.

Interpreting Rates of Reported Cases of Chlamydia

Trends in rates of reported cases of chlamydia are influenced by changes in incidence of infection, as well as changes in diagnostic, screening, and reporting practices. As chlamydial infections are usually asymptomatic, the

number of infections identified and reported can increase as more people are screened even when incidence is flat or decreasing. Expanded use of more sensitive diagnostics tests (e.g., nucleic acid amplification tests) can also increase the number of infections identified and reported independent of increases in incidence. Although chlamydia has been a nationally notifiable condition since 1994, it was not until 2000 that all 50 states and the District of Columbia required reporting of chlamydia cases. National case rates prior to 2000 reflect incomplete reporting. Additionally, increasing use of electronic laboratory reporting has likely increased the proportion of diagnosed cases that are reported. Consequently, an increasing chlamydia case rate may reflect increases in incidence of infection, screening coverage, and use of more sensitive tests, as well as more complete reporting. Likewise, decreases in chlamydia case rates may suggest decreases in incidence of infection or screening coverage.

Chlamydia — United States

In 2014, a total of 1,441,789 chlamydial infections were reported to CDC in 50 states and the District of Columbia (Table 1). This case count corresponds to a rate of 456.1 cases per 100,000 population. During 1993–2011, the rate of reported chlamydial infection increased from 178.0 to 453.4 cases per 100,000 population (Figure 1, Table 1). During 2011–2013, the rate of reported cases decreased to 443.5 cases per 100,000. During 2013–2014, the national rate of reported cases increased 2.8% to 456.1 cases per 100,000.

Chlamydia by Region

In 2014, rates of reported chlamydia were highest in the South (492.3 per 100,000 population), followed by the Midwest (448.9), the West (441.8), and the Northeast (406.9) (Table 3). Between 2005–2012, rates of reported cases of chlamydia increased in all regions (Figure 2). During 2012–2013, rates decreased in the Northeast, Midwest, and South and remained stable in the West. During 2013–2014, rates increased in all regions with the largest increase in the West (421.1 to 441.8 cases per 100,000) (Table 3).

Chlamydia by State

In 2014, rates of reported cases of chlamydia by state ranged from 254.5 cases per 100,000 population in West Virginia to 787.5 cases in Alaska (Figure 3, Table 2); the rate in the District of Columbia was 818.8 cases per 100,000 (Table 3). During 2013–2014, rates of reported chlamydia increased in 40 states.

Chlamydia by Metropolitan Statistical Area

In 2014, the rate of reported cases of chlamydia per 100,000 population in the 50 most populous metropolitan statistical areas (MSAs) increased 3.6% from the rate in 2013 (458.3 and 474.6 cases per 100,000, respectively) (Table 6). In 2014, 56.9% of chlamydia cases were reported by these MSAs. In these MSAs, the rate among women increased 1.7% during 2013–2014 (623.8 to 634.5 cases per 100,000) (Table 7) and the rate among men increased 8.1% (283.8 to 306.8 cases per 100,000) (Table 8).

Chlamydia by County

Counties in the United States with the highest rates of reported cases of chlamydia were located primarily in the South and West, including Alaska (Figure 4). In 2014, 785 (25.0%) of 3,142 counties had rates higher than 439 cases per 100,000 population. Seventy counties and independent cities reported 43% of all chlamydia cases in 2014 (Table 9).

Chlamydia by Sex

In 2014, 1,006,441 cases of chlamydia were reported among females for a case rate of 627.2 per 100,000 females. During 1995–2011, the rate among females increased each year (Figure 1). During 2011–2013, the rate decreased from 643.4 to 619.0 cases per 100,000 females and during 2013–2014, the rate increased 1.3% to 627.2 cases per 100,000 (Table 4).

After remaining stable during 2012–2013, the overall case rate among males increased (6.8%) during 2013–2014 (260.6 to 278.4 cases per 100,000 males). As in previous years, the reported case rate among females was about two times the case rate among males in 2014, likely reflecting a larger number of women screened for this infection (Figure 1, Tables 4 and 5). The lower rate among men also suggests that many of the sex partners of women with chlamydia are not receiving a diagnosis of chlamydia or being reported as having chlamydia.

However, with the advent of highly sensitive nucleic acid amplification tests (NAATs) that can be performed on urine, chlamydial infection is increasingly being diagnosed in symptomatic and asymptomatic men. During 2010–2014, the rate of reported cases among men increased 22.4% (from 233.2 to 278.4 cases per 100,000 males) compared with a 6.0% increase among women during the same period (from 605.1 to 627.2 cases per 100,000 females).

Chlamydia by Age

Rates of reported cases of chlamydia are highest among adolescents and young adults aged 15–24 years (Table 10). In 2014, the rate among 15–19 year olds was 1,804.0 cases per 100,000 and the rate among 20–24 year olds was 2,484.6 cases per 100,000.

Among women, the highest age-specific rates of reported chlamydia in 2014 were among those aged 15–19 years (2,941.0 cases per 100,000 females) and 20–24 years (3,651.1 cases per 100,000 females) (Figure 5, Table 10). Within these age ranges, reported rates were highest among women aged 19 years (4,640.4 cases per 100,000 females) and aged 20 years (4,567.5 cases per 100,000 females) (Table 12). After increasing steadily during 2000–2011, the rate among women aged 15–19 years decreased 5.6% during 2011–2012, decreased 8.7% during 2012–2013, and decreased 4.2% during 2013–2014. The rate increased among women aged 20–24 years during 2011–2014 (3,630.0 to 3,651.1 per 100,000 females) (Table 10).

Age-specific rates among men, although substantially lower than the rates among women, were highest in those aged 20–24 years (1,368.3 cases per 100,000 males) (Figure 5, Table 10). Similar to trends in women, after increasing for the last decade, reported case rate among men aged 15–19 years decreased 5.1% during 2011–2012 and decreased 9.0% during 2012–2013. Rates among men aged 15–19 years decreased slightly during 2013–2014 (722.9 to 718.3 per 100,000 males). Among men aged 20–24 years, the reported case rate increased 4.4% during 2013–2014 (1,310.9 to 1,368.3 cases per 100,000 males).

Chlamydia by Race/Ethnicity

Among the 48 states that submitted data in the race and ethnicity categories in 2014 according to Office of Management and Budget (OMB) standards (see Section A1.5 in the Appendix), rates of reported cases of chlamydia were highest among non-Hispanic black men and women (Figure L, Table 11B). The rate of chlamydia among non-Hispanic blacks was 6.2 times the rate among non-Hispanic whites (1,117.9 and 180.6 cases per 100,000 population,

respectively). The rate among American Indians/Alaska Natives (668.8 cases per 100,000) was 3.7 times the rate among whites. The rate among Hispanics (380.6 cases per 100,000) was 2.1 times the rate among whites. The rate among Native Hawaiians/Other Pacific Islanders (625.1 cases per 100,000) was 3.5 times the rate among whites. The rate among Asians was lower than the rate among whites (112.0 cases and 180.6 cases per 100,000, respectively).

During 2010–2014, 43 states submitted chlamydia case report data in the race and ethnicity categories according to the OMB standards (see Section A1.5 in the Appendix). Between 2010–2014, rates increased among all races and ethnicities, except blacks (Figure 6). During 2013–2014, rates increased among whites (2.1%) and Asians (5.2%), and decreased 2.4% among American Indians/Alaska Natives. Rates were stable among blacks, Hispanics, Native Hawaiians/Other Pacific Islanders during 2013–2014 (Figure 6).

More information on chlamydia rates among race/ethnicity groups can be found in the Special Focus Profiles.

Chlamydia by Reporting Source

Most chlamydia cases reported in 2014 were from venues outside of STD clinics (Figure 8 and Table A2). Over time, the proportion of cases reported from non-STD clinic sites has continued to increase (Figure 7). In 2014, among women, only 4.9% of chlamydia cases were reported through an STD clinic (Figure 8). Most cases among women were reported from private physicians/health maintenance organizations (HMOs) (33.6%). Among men, 14.9% of chlamydia cases were reported from an STD clinic in 2014 and 25.0% were reported from private physicians/HMOs.

Chlamydia Prevalence in the Population

The National Health and Nutrition Examination Survey (NHANES; see Section A2.4 in the Appendix for more information) is a nationally representative survey of the U.S. civilian, non-institutionalized population aged 14–39 years that provides an important measure of chlamydia disease burden. During 2007–2012, the overall prevalence of chlamydia among persons aged 14–39 years was 1.7% (95% Confidence Interval [CI]: 1.4–2.0) (Figure 10). Among sexually active females aged 14–24 years, the population targeted for screening, prevalence was 4.7% (95% CI: 3.2–6.1), with highest prevalence among black females (13.5%, 95% CI: 9.2–17.7) (Figure 11).¹

Chlamydia Positivity in Selected Populations

The STD Surveillance Network (SSuN) is an ongoing collaboration of states and independently funded cities collecting enhanced clinical and behavioral information among patients attending STD clinics in the SSuN jurisdictions. Due to a transition from SSuN Cycle 2 to Cycle 3, data for this report include information from patients attending STD clinics during 2014 in the 6 jurisdictions that overlap cycles. See Section A2.2 of the Appendix for more information about SSuN methodology.

In 2014, the proportion of STD clinic patients testing positive for chlamydia varied by age, sex, and sexual behavior. Adolescent men who have sex with women (MSW) had the highest prevalence (28.4%), either reflecting disproportionate testing of men with urethritis or targeted testing of partners of females diagnosed with chlamydia. Prevalence among all those tested decreased with age, though the variation in prevalence by age was not as pronounced for gay, bisexual, and other men who have sex with men (MSM) (Figure 9).

Chlamydia Among Special Populations

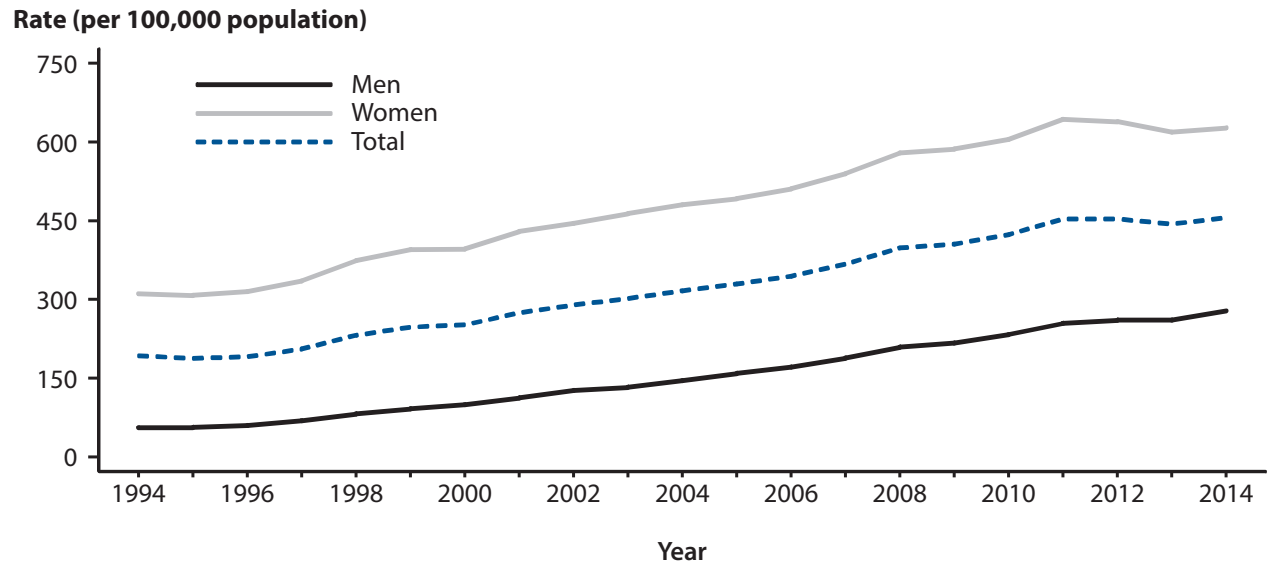
More information on chlamydia among women of reproductive age, adolescents and young adults, MSM, and minority populations is presented in the Special Focus Profiles.

Chlamydia Summary

Chlamydia continues to be the most commonly reported nationally notifiable disease with 1,441,789 cases reported in 2014. During 2013–2014, rates of reported chlamydia increased 2.8% overall, but decreased 4.2% among females aged 15–19 years. However, both test positivity and the number of reported cases of *C. trachomatis* infections remain high among most age groups, racial/ethnic groups, geographic areas, and both sexes. Racial differences also persist; reported case rates and prevalence estimates among blacks continue to be substantially higher than among other racial/ethnic groups.

-
- ¹ Torrone E, Papp J, Weinstock H; Centers for Disease Control and Prevention (CDC). Prevalence of *Chlamydia trachomatis* genital infection among persons aged 14-39 years--United States, 2007-2012. MMWR Morb Mortal Wkly Rep. 2014 Sep 26;63(38):834-8.
- ² Hogben M, Leichter JS. Social determinants and sexually transmitted disease disparities. Sex Transm Dis. 2008 Dec;35(12 Suppl):S13-8.
- ³ Scholes D, Stergachis A, Heidrich FE, Andrilla H, Holmes KK, Stamm WE. Prevention of pelvic inflammatory disease by screening for cervical chlamydial infection. N Engl J Med 1996;34(21):1362-6.
- ⁴ Oakeshott P, Kerry S, Aghaizu A, Atherton H, Hay S, Taylor-Robinson D, et al. Randomised controlled trial of screening for *Chlamydia trachomatis* to prevent pelvic inflammatory disease: the POPI (prevention of pelvic infection) trial. BMJ. 2010;340:c1642. doi: 10.1136/bmj.c1642.
- ⁵ Fleming DT, Wasserheit JN. From epidemiological synergy to public health policy and practice: the contribution of other sexually transmitted diseases to sexual transmission of HIV infection. Sex Transm Infect. 1999;75:3-17.
- ⁶ Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines, MMWR Morb Mortal Wkly Rep.2010; No.59(RR-12):1-110. Erratum in: MMWR Recomm Rep. 2011;60(1):18.
- ⁷ National Committee for Quality Assurance. The state of healthcare quality 2014. Washington (DC): National Committee for Quality Assurance; 2014. p. 68-69.

Figure 1. Chlamydia — Rates of Reported Cases by Sex, United States, 1994–2014



NOTE: As of January 2000, all 50 states and the District of Columbia have regulations that require the reporting of chlamydia cases.

Figure 2. Chlamydia — Rates of Reported Cases by Region, United States, 2005–2014

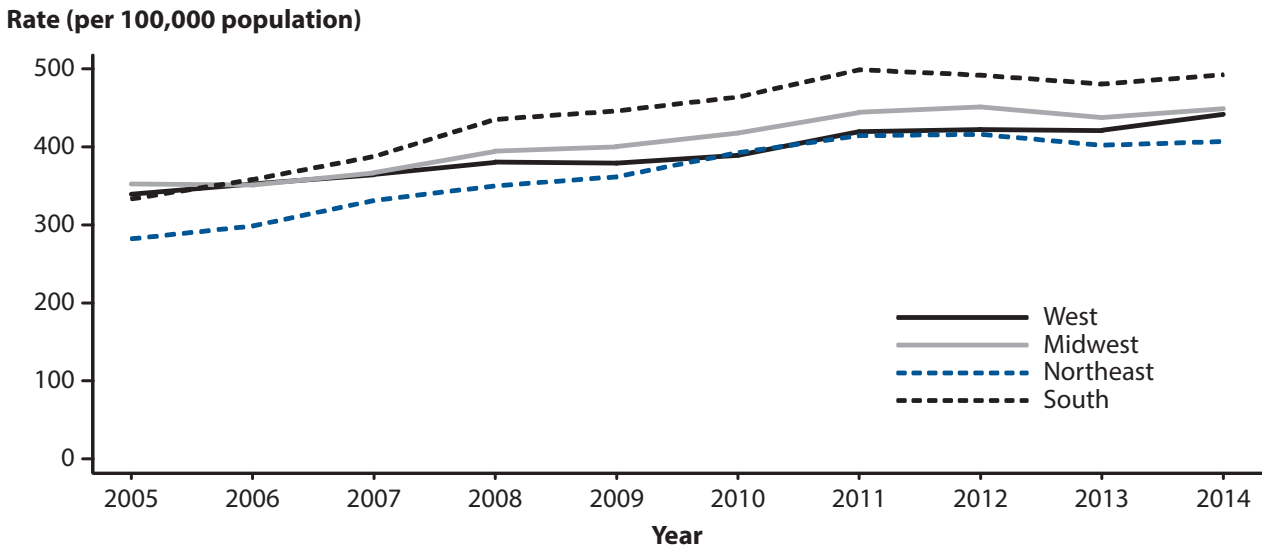
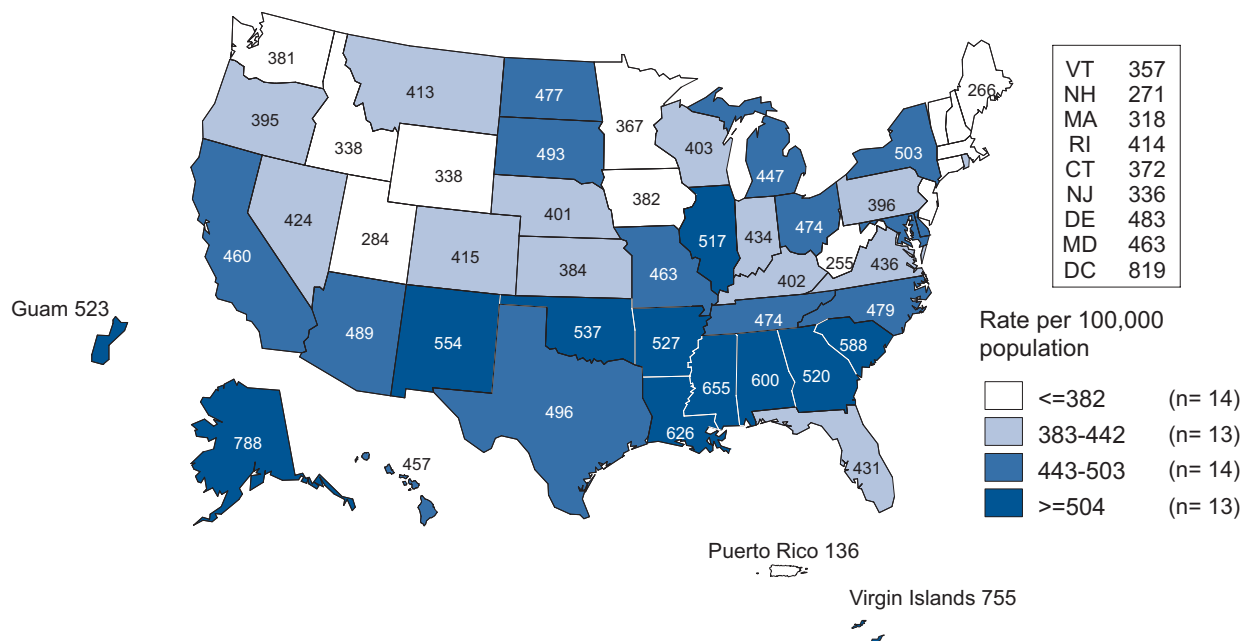


Figure 3. Chlamydia — Rates of Reported Cases by State, United States and Outlying Areas, 2014



NOTE: The total rate of reported cases of chlamydia for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 452.6 per 100,000 population.

Figure 4. Chlamydia — Rates of Reported Cases by County, United States, 2014

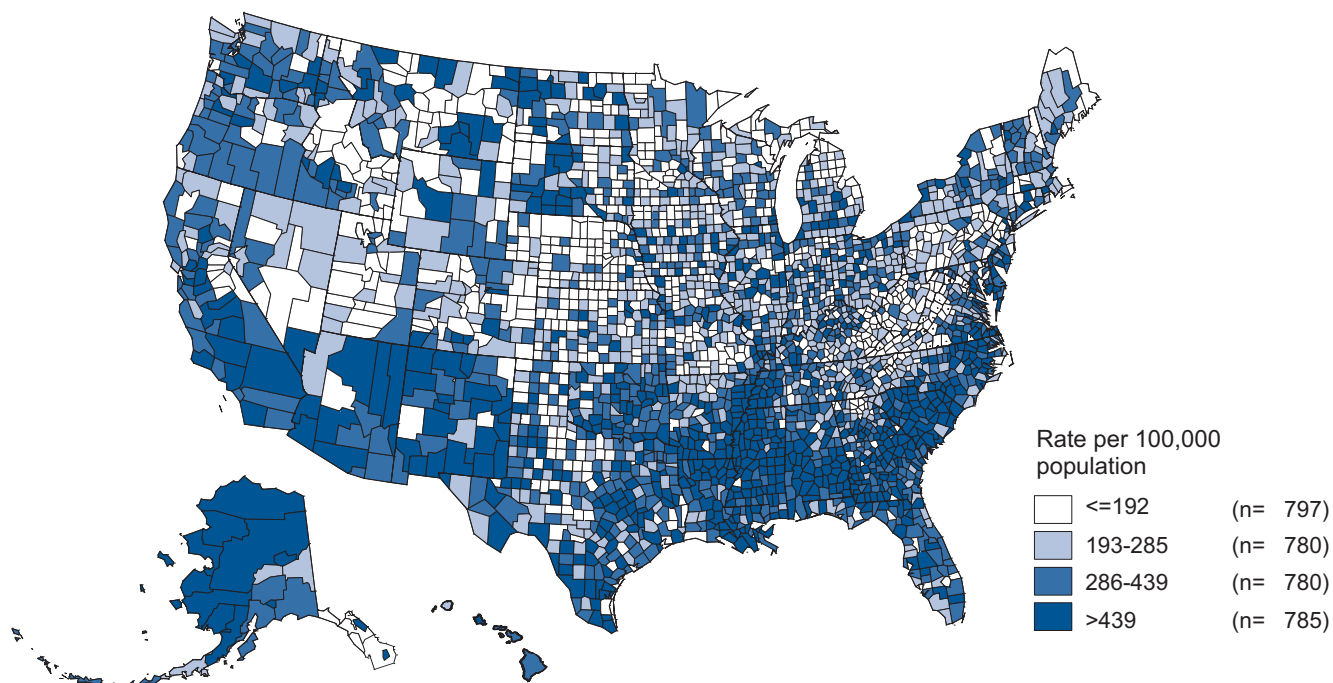


Figure 5. Chlamydia — Rates of Reported Cases by Age and Sex, United States, 2014

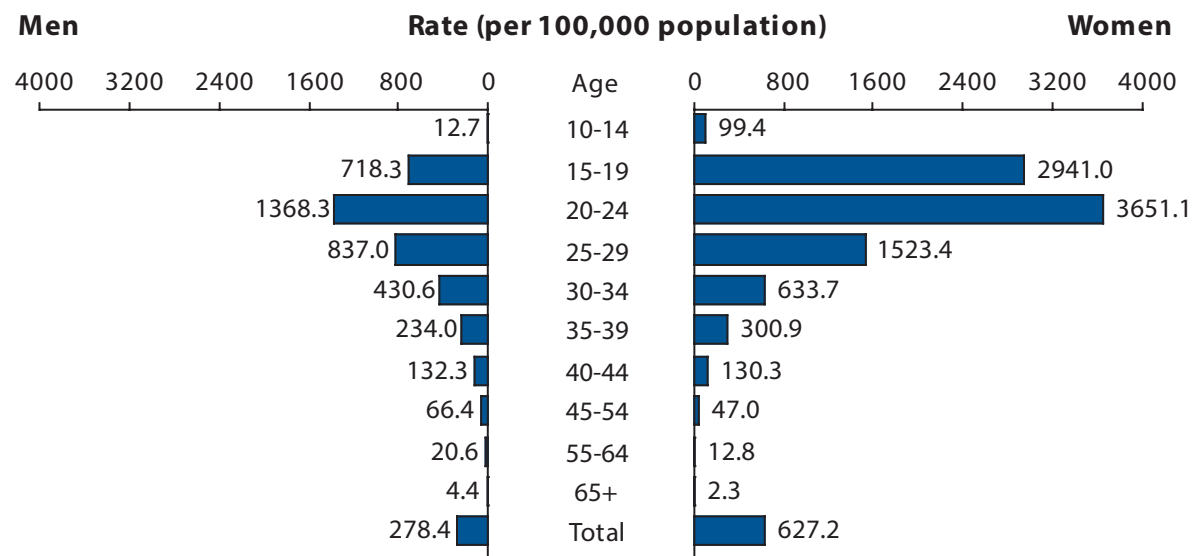
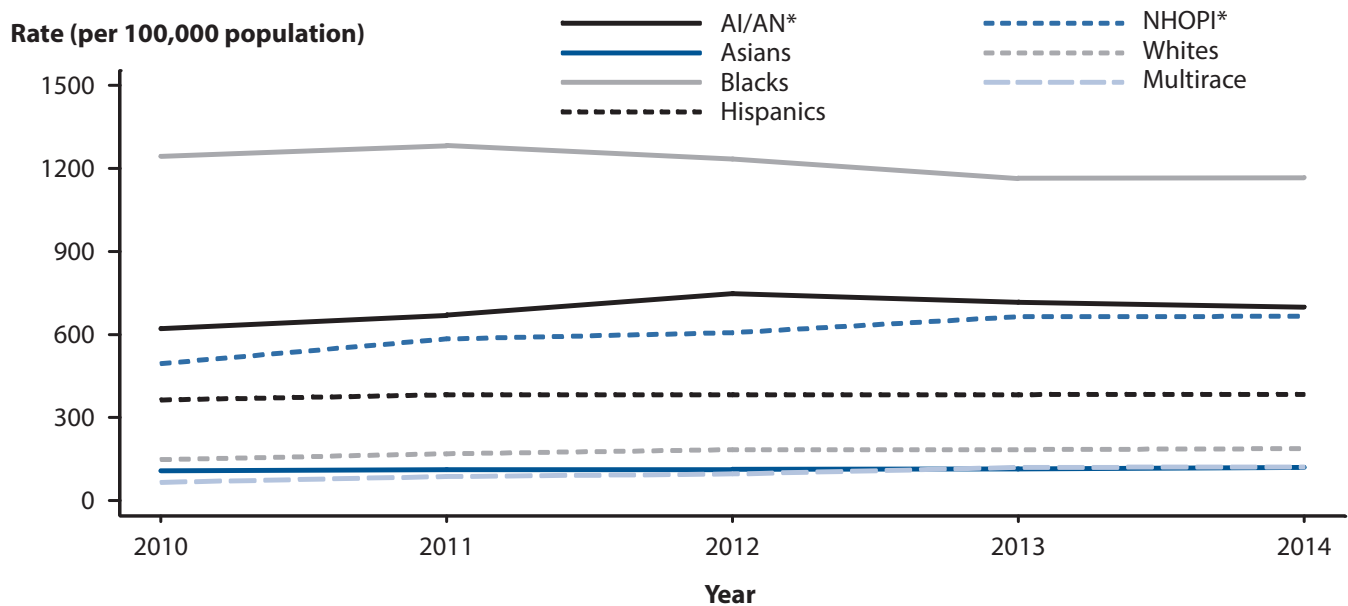


Figure 6. Chlamydia — Rates of Reported Cases by Race/Ethnicity, United States, 2010–2014



* AI/AN = American Indians/Alaska Natives; NHOP* = Native Hawaiians/Other Pacific Islanders.
NOTE: Includes 43 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

Figure 7. Chlamydia — Reported Cases by Reporting Source and Sex, United States, 2005–2014

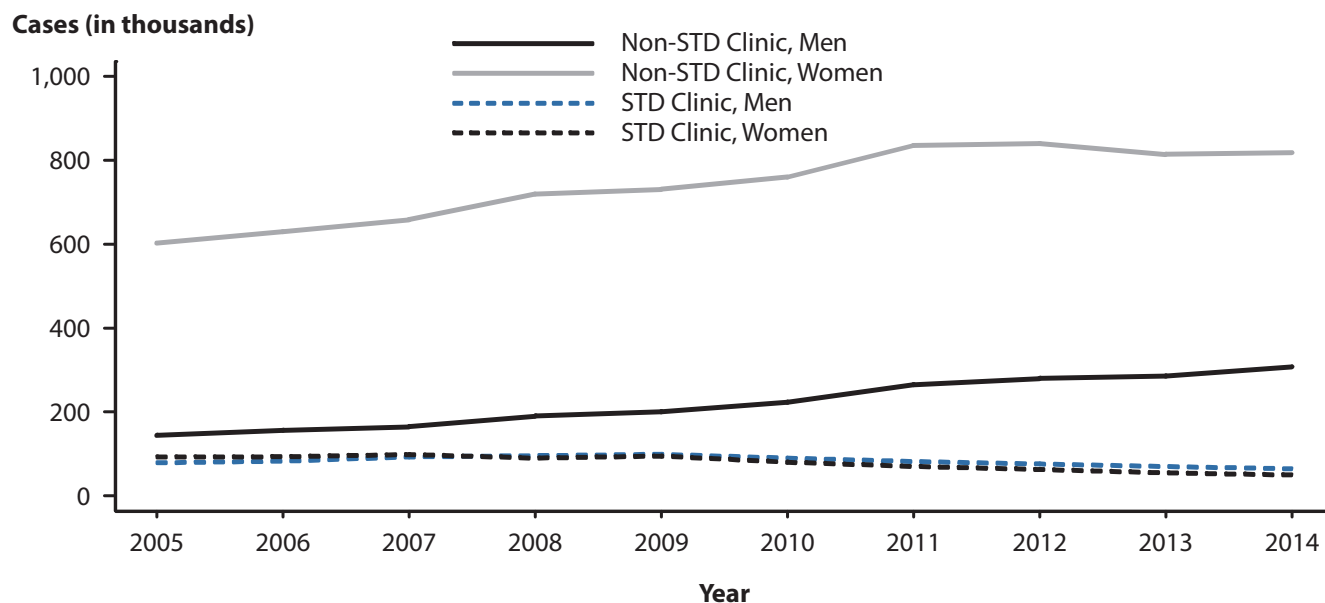
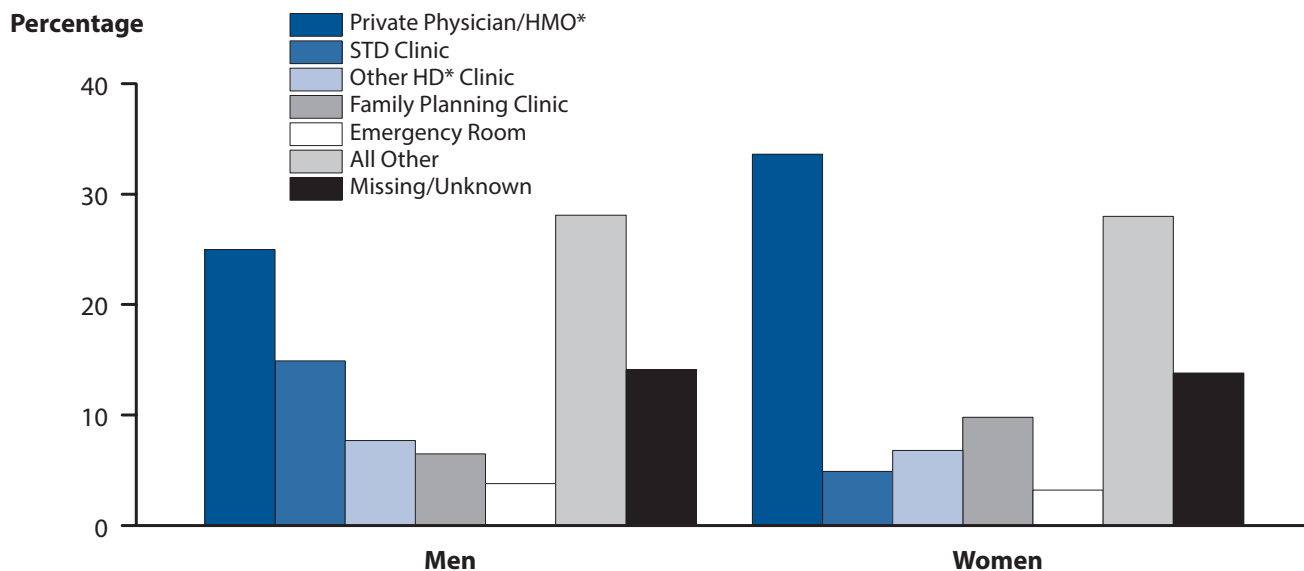


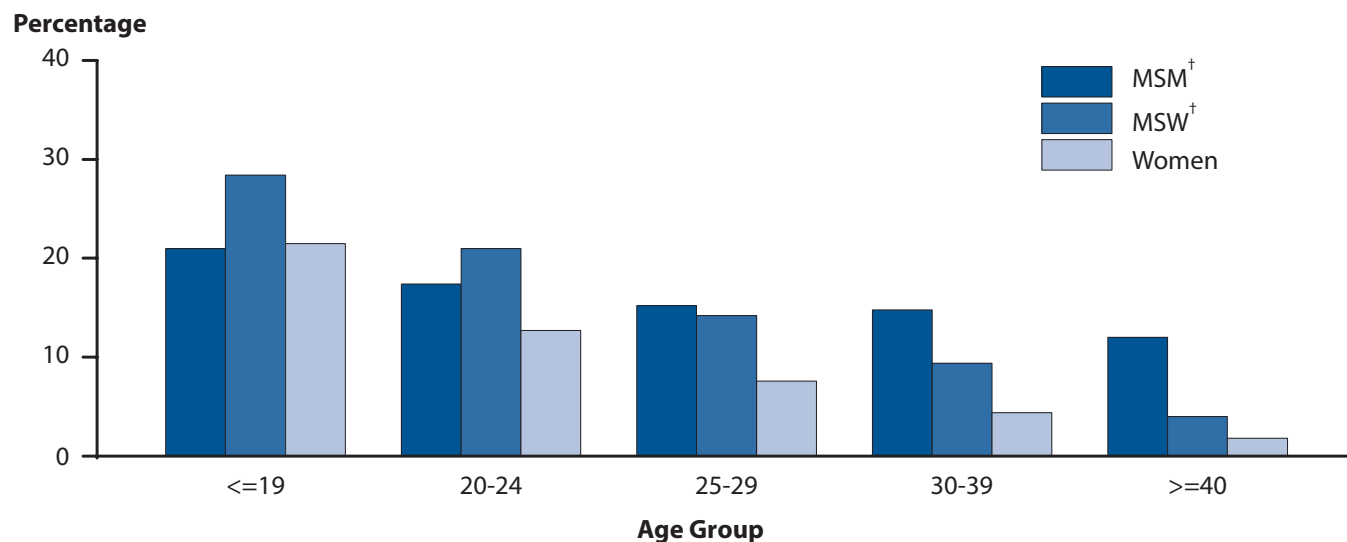
Figure 8. Chlamydia — Percentage of Reported Cases by Sex and Selected Reporting Sources, United States, 2014



* HMO = health maintenance organization; HD = health department.

NOTE: Other includes: Drug Treatment, Tuberculosis Clinic, Correctional Facility, Laboratory, Blood Bank, Labor and Delivery, Prenatal Care, National Job Training Program, School-based Clinic, Mental Health Provider, Other Hospital, Indian Health Service, Military, and HIV Counseling and Testing Site

Figure 9. Chlamydia — Proportion of STD Clinic Patients* Testing Positive by Age, Sex, and Sexual Behavior, STD Surveillance Network (SSuN), 2014

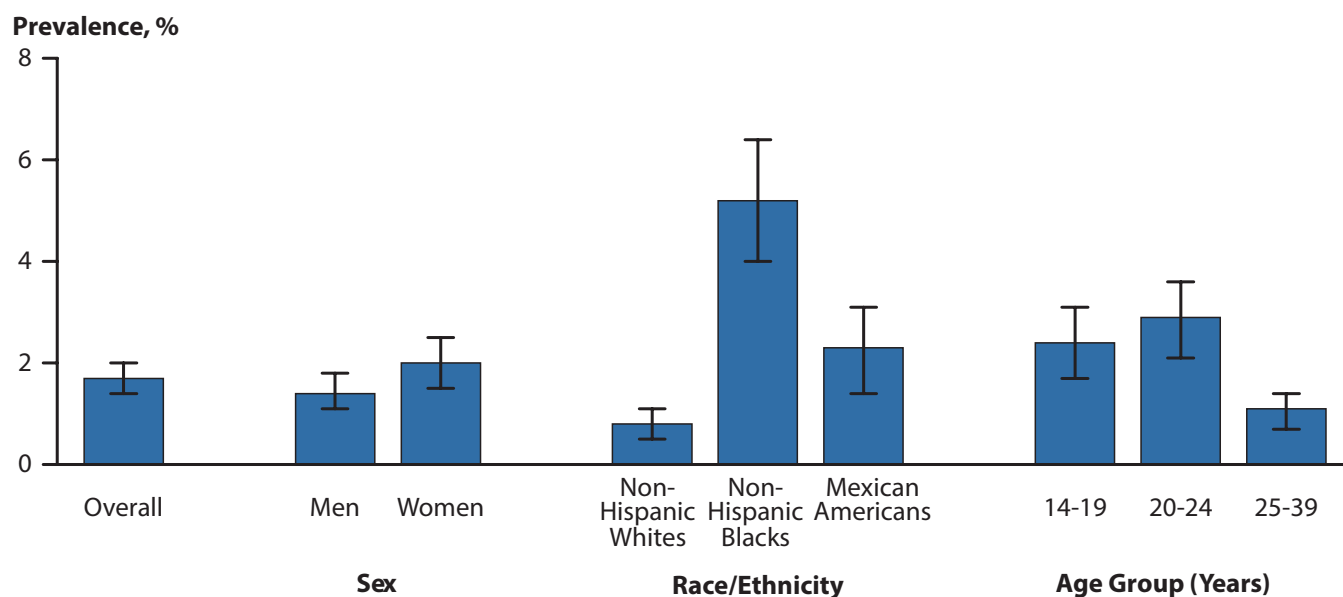


* Only includes patients tested for chlamydia.

[†] MSM = men who have sex with men; MSW = men who have sex with women only.

NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) that contributed data for all of 2014.

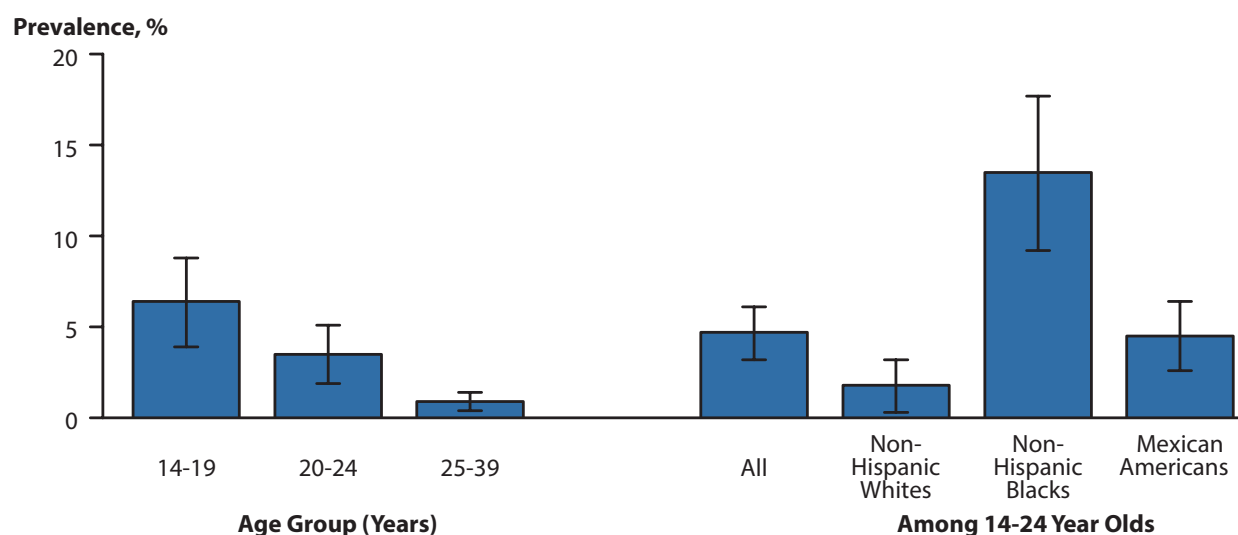
Figure 10. Chlamydia — Prevalence Among Persons Aged 14–39 Years by Sex, Race/Ethnicity, or Age, National Health and Nutrition Examination Survey, 2007–2012



NOTE: Error bars indicate 95% confidence intervals.

SOURCE: Torrone E, Papp J, Weinstock H; Centers for Disease Control and Prevention (CDC). Prevalence of *Chlamydia trachomatis* genital infection among persons aged 14–39 years —United States, 2007–2012. MMWR Morb Mortal Wkly Rep. 2014 Sep 26;63(38):834–8.

Figure 11. Chlamydia — Prevalence Among Sexually-Active Women Aged 14–39 Years by Race/Ethnicity and Age, National Health and Nutrition Examination Survey, 2007–2012



NOTE: Error bars indicate 95% confidence intervals.

SOURCE: Torrone E, Papp J, Weinstock H; Centers for Disease Control and Prevention (CDC). Prevalence of *Chlamydia trachomatis* genital infection among persons aged 14–39 years—United States, 2007–2012. MMWR Morb Mortal Wkly Rep. 2014 Sep 26;63(38):834–8.

Gonorrhea

Background

Gonorrhea is the second most commonly reported notifiable disease in the United States. Infections due to *Neisseria gonorrhoeae*, like those resulting from *Chlamydia trachomatis*, are a major cause of pelvic inflammatory disease (PID) in the United States. PID can lead to serious outcomes in women, such as tubal infertility, ectopic pregnancy, and chronic pelvic pain. In addition, epidemiologic and biologic studies provide evidence that gonococcal infections facilitate the transmission of HIV infection.¹ Together sexual behavior and community prevalence can increase the risk of acquiring gonorrhea. Social determinants of health, such as socioeconomic status, discrimination, and access to quality health care, may contribute to the burden of gonorrhea in a community.²

In 2009, the national rate of reported gonorrhea cases reached an historic low of 98.1 cases per 100,000 population (Figure 12 and Table 1). However, during 2009–2012, the rate increased slightly each year, to 106.7 cases per 100,000 population in 2012. In 2013, the rate decreased slightly to 105.3 cases per 100,000 population. In 2014, a total of 350,062 gonorrhea cases were reported, and the national gonorrhea rate increased to 110.7 cases per 100,000 population.

The increase in gonorrhea rate during 2013–2014 was observed primarily among men (Figure 13). Overall, the gonorrhea rate increased in the South and the West, but decreased in the Northeast and Midwest (Figure 14). The rate increased among persons aged 20–24 years and in older age groups, but decreased among younger age groups (Table 21).

N. gonorrhoeae has progressively developed resistance to each of the antimicrobials used for treatment of gonorrhea. Most recently, declining susceptibility to cefixime (an oral cephalosporin antibiotic) resulted in a change to the CDC treatment guidelines, so that dual therapy with ceftriaxone (an injectable cephalosporin) and azithromycin is now the only CDC-recommended treatment regimen for gonorrhea.³ The emerging threat of cephalosporin resistance highlights the need for continued surveillance of *N. gonorrhoeae* antimicrobial susceptibility.

The combination of persistently high gonorrhea morbidity in some populations and the threat of cephalosporin-resistant gonorrhea reinforces the need to better understand the epidemiology of gonorrhea.

Interpreting Rates of Reported Cases of Gonorrhea

Although gonorrhea case reporting is useful for monitoring disease trends, the number of gonorrhea cases reported to CDC is affected by many factors in addition to the actual occurrence of the infection within the population. Changes in the burden of gonorrhea may be masked by changes in screening practices (e.g., screening for chlamydia with tests that also detect *N. gonorrhoeae* infections or increased screening at extra-genital anatomic sites), the use of diagnostic tests with different test performance (e.g., the broader use of nucleic acid amplification tests [NAATs]), and changes in reporting practices. As with other STDs, the reporting of gonorrhea cases to CDC is incomplete.⁴ For these reasons, supplemental data on gonorrhea prevalence in persons screened in a variety of settings are useful in assessing the burden of disease in selected populations.

Gonorrhea — United States

In 2014, a total of 350,062 cases of gonorrhea were reported in the United States, yielding a rate of 110.7 cases per 100,000 population (Table 1). The rate increased 5.1% since 2013, and increased 10.5% since 2010.

Gonorrhea by Region

In 2014, as in previous years, the South had the highest rate of reported gonorrhea cases (131.4 cases per 100,000 population) among the four regions of the United States, followed by the Midwest (106.6 cases per 100,000 population), West (101.1 cases per 100,000 population), and Northeast (84.7 cases per 100,000 population) (Table 14). During 2013–2014, the gonorrhea rate increased 22.2% in the West and 3.1% in the South, but decreased 1.5% in the Midwest and 0.6% in the Northeast (Figure 14, Table 14).

Gonorrhea by State

In 2014, rates of reported gonorrhea cases per 100,000 population ranged by state from 13.4 in Vermont to 194.6 in Louisiana; the gonorrhea rate in the District of Columbia was 291.3 per 100,000 population (Figure 15, Table 13). During 2013–2014, gonorrhea rates increased in 70% (35/50) of states, and decreased in 30% (15/50) of states and the District of Columbia (Table 14).

Gonorrhea by Metropolitan Statistical Area

The overall rate of reported gonorrhea cases in the 50 most populous metropolitan statistical areas (MSAs) was 122.8 cases per 100,000 population in 2014 (Table 17), representing a 5.0% increase compared with 2013 (117.0 cases per 100,000 population). In 2014, 60.6% of reported gonorrhea cases were reported by these MSAs. Since 2010, the gonorrhea rate among women in the 50 most populous MSAs has been lower than the rate among men (Tables 18 and 19). In 2014, the rate among women in these MSAs was 102.0 cases per 100,000 females, while the rate among men was 144.1 cases per 100,000 males.

Gonorrhea by County

In 2014, 50% of reported gonorrhea cases occurred in just 70 counties or independent cities (Table 20). In 2014, 792 counties (25.2%) in the United States had a rate less than or equal to 13 cases per 100,000 population (Figure 16). The rate ranged from 14 to 36 per 100,000 population in 791 counties (25.2%), ranged from 37 to 91 per 100,000 population in 777 counties (24.7%), and was more than 91 cases per 100,000 population in 782 counties (24.9%). As in previous years, counties with the highest gonorrhea rates were concentrated in the South.

Gonorrhea by Sex

As was observed in 2013, in 2014 the rate of reported gonorrhea cases among men (120.1 cases per 100,000 males) was higher than the rate among women (101.3 cases per 100,000 females) (Figure 13, Tables 15 and 16). During 2013–2014, the gonorrhea rate among men increased 10.5%, and the rate among women decreased 0.4%. During 2010–2014, the rate among men increased 27.9%, while the rate among women decreased 4.1%. The magnitude of the increase among men compared with a decrease among women suggests either increased transmission or increased case ascertainment (e.g., through increased extra-genital screening) among gay, bisexual, and other men who have sex with men (collectively referred to as MSM). However, most jurisdictions do not routinely report sex of sex partner or site of infection for gonorrhea cases, so trends in gonorrhea rates among MSM over time cannot be assessed.

Gonorrhea by Region and Sex

During 2013–2014 in the West, the rate of reported gonorrhea cases increased among men (25.7%) and among women (16.9%) (Tables 15 and 16). Similarly, in the South, the rate of reported gonorrhea cases increased both

among men (6.2%) and among women (0.6%). In contrast, in the Northeast and Midwest, the gonorrhea rate increased among men (increased 8.9% in the Northeast, 4.2% in the Midwest), but decreased among women (decreased 12.0% in the Northeast, 6.5% in the Midwest).

Gonorrhea by Age

In 2014, rates of reported gonorrhea cases continued to be highest among adolescents and young adults (Figure 17, Table 21). In 2014, the highest rates among women were observed among those aged 20–24 years (533.7 cases per 100,000 females) and 15–19 years (430.5 cases per 100,000 females). Among men, the rate was highest among those aged 20–24 years (485.6 cases per 100,000 males) and 25–29 years (370.5 cases per 100,000 males).

In 2014, persons aged 15–44 years accounted for 93.2% of reported gonorrhea cases with known age. During 2013–2014, the gonorrhea rate decreased 5.0% among those aged 15–19 years (Table 21). However, the gonorrhea rate increased 2.8% among those aged 20–24 years, 12.1% among those aged 25–29 years, 12.7% among those aged 30–34 years, 15.3% among those aged 35–39 years, and 7.4% among those aged 40–44 years.

Among women aged 15–44 years, the rate decreased among those aged 15–19 years and 20–24 years, but increased in older age groups during 2013–2014 (Figure 18). Among men aged 15–44 years, the rate decreased among those aged 15–19 years, but increased in those aged 20–24 years and in older age groups during 2013–2014 (Figure 19).

Gonorrhea by Race/Ethnicity

In 2014, among the 48 states that submitted data in the race and ethnicity categories according to Office of Management and Budget (OMB) standards (see Section A1.5 in the Appendix), the rate of reported gonorrhea cases remained highest among blacks (405.4 cases per 100,000 population) (Table 22B). The rate among blacks was 10.6 times the rate among whites (38.3 cases per 100,000 population). The gonorrhea rate among American Indians/Alaska Natives (159.4 cases per 100,000 population) was 4.2 times that of whites, the rate among Native Hawaiians/Other Pacific Islanders (102.1 cases per 100,000 population) was 2.7 times that of whites, the rate among Hispanics (73.3 cases per 100,000 population) was 1.9 times that of whites, and the rate among Asians (19.3 cases per 100,000 population) was 0.5 times that of whites.

During 2010–2014, among the 43 states that submitted race and ethnicity data according to OMB standards (see Section A1.5 in the Appendix) for all five years during

that period, the gonorrhea rate increased among American Indians/Alaska Natives (100.3%), whites (59.3%), Hispanics (51.2%), Asians (45.3%), and Native Hawaiians/Other Pacific Islanders (44.2%) (Figure 20). During this same time period, the gonorrhea rate decreased 8.2% among blacks.

More information on gonorrhea rates among race/ethnicity groups can be found in the Special Focus Profiles.

Gonorrhea by Reporting Source

The number of gonorrhea cases reported by STD clinics declined during 2005–2014 (Figure 21). In 2014, 15.1% of gonorrhea cases with known reporting source were reported by STD clinics (Table A2). This is a decrease from 2013, when 16.3% of gonorrhea cases were reported by STD clinics. In 2014, among women, private physicians or health maintenance organizations (HMOs) (25.1%) were the most common reporting source, followed by family planning clinics (8.5%), STD clinics (8.2%), other health department clinics (6.6%), and emergency rooms (5.5%) (Figure 22). Among men, private physicians/HMOs (20.5%) and STD clinics (17.2%) were the most common reporting sources. Other reporting sources for men included other health department clinics (8.7%), emergency rooms (5.9%), and family planning clinics (4.7%).

STD Surveillance Network

The STD Surveillance Network (SSuN) is an ongoing collaboration of states and independently funded cities collecting enhanced information on a representative sample of gonorrhea case reports received from all reporting sources in their jurisdiction. Enhanced gonorrhea case report data for this report were obtained from Cycle 2 of SSuN, which included 12 sites collecting data through June 2013. These data for 2014 are not yet available due to transition to SSuN Cycle 3, which includes different sites and new data collection protocols. Subsequent cycles of SSuN will continue to provide more complete estimates of case characteristics often missing on routine case reports, such as gender of sex partners, which is essential for better targeting of gonorrhea control efforts. Between January 1 and June 30, 2013, SSuN cycle 2 collaborators interviewed 3,121 gonorrhea cases representing 8.1% of total morbidity reported from participating jurisdictions during that time period. The estimated burden of disease represented by MSM, men who have sex with women only (MSW), and women varied substantially across collaborating sites (Figure 23). San Francisco County had the highest proportion of estimated MSM cases (82.6%), while the lowest proportion of morbidity estimated to be attributed to MSM was found in Virginia at 13.0%. Across collaborating jurisdictions

in 2013, 27.4% of gonorrhea cases were estimated to be among MSM, 30.5% among MSW, and 42.1% among women.

Enhanced clinical and behavioral information is also collected among patients attending STD clinics in SSuN jurisdictions. Clinic data for this report include information from patients attending STD clinics during 2014 in the 6 SSuN jurisdictions that were in both Cycle 2 and Cycle 3. In 2014, the proportion of STD clinic patients who tested positive for gonorrhea varied by age, sex, and sex of sex partner (Figure 24). Among those attending these clinics, MSM disproportionately have higher positivity rates when compared to MSW and women, especially among adolescent MSM ≤ 19 years of age (29.0%). Positivity rates decline with increasing age for MSM, MSW, and women.

Additional information about SSuN methodology can be found in Section A2.2 of the Appendix.

Gonococcal Isolate Surveillance Project

Antimicrobial resistance remains an important consideration in the treatment of gonorrhea.^{3,5–7} In 1986, the Gonococcal Isolate Surveillance Project (GISP), a national sentinel surveillance system, was established to monitor trends in antimicrobial susceptibilities of urethral *N. gonorrhoeae* strains in the United States.⁷ Data are collected from selected STD clinic sentinel sites and from regional laboratories (Figure 25).

Antimicrobial susceptibility is measured by the minimum inhibitory concentration (MIC), the lowest antimicrobial concentration that inhibits bacterial growth in the laboratory. Increases in MICs demonstrate that the bacteria can survive at higher antimicrobial concentrations in the laboratory. Monitoring of MIC trends is useful because increasing MICs can oftentimes be an early indicator of the emergence of antimicrobial resistance.

Information on the antimicrobial susceptibility criteria used in GISP can be found in the Section A2.3 in the Appendix. More information about GISP and additional data can be found at <http://www.cdc.gov/std/GISP>.

Ceftriaxone Susceptibility

Susceptibility testing for ceftriaxone began in 1987. During 2006–2014, the percentage of GISP isolates that exhibited elevated ceftriaxone MICs, defined as ≥ 0.125 $\mu\text{g/ml}$, fluctuated between 0.1% and 0.4% (Figure 26).

Five isolates with decreased ceftriaxone susceptibility (MIC = 0.5 $\mu\text{g/ml}$) have been previously identified in GISP: one from San Diego, California (1987), two from

Cincinnati, Ohio (1992 and 1993), one from Philadelphia, Pennsylvania (1997), and one from Oklahoma City, Oklahoma (2012).

Cefixime Susceptibility

Susceptibility testing for cefixime began in 1992, was discontinued in 2007, and was restarted in 2009. The percentage of isolates with elevated cefixime MICs ($\geq 0.25 \mu\text{g/ml}$) declined from 1.4% in 2010 and 2011 to 0.4% in 2013 (Figure 27); in 2014, the percentage was 0.8%.

Azithromycin Susceptibility

Susceptibility testing for azithromycin began in 1992. Figure 28 displays the distribution of azithromycin MICs among GISP isolates collected during 2010–2014. Most isolates had MICs of 0.125–0.5 $\mu\text{g/ml}$. From 2010–2013, the percentage of isolates with reduced azithromycin susceptibility (MICs $\geq 2 \mu\text{g/ml}$) ranged from 0.3% to 0.6%; between 2013 and 2014, the percentage increased from 0.6% to 2.5%.

Spectinomycin Susceptibility

All isolates were susceptible to spectinomycin in 2014. A spectinomycin-resistant isolate was last identified in GISP in 1994 (West Palm Beach, Florida).

Ciprofloxacin Susceptibility

During 1999–2007, the prevalence of ciprofloxacin increased from 0.4% to 14.8%. The prevalence declined in 2008 and 2009 and then increased. In 2014, 19.2% of GISP isolates were resistant to ciprofloxacin. Among isolates from MSM, 29.7% were resistant; 12.7% of isolates from MSW exhibited ciprofloxacin resistance.

Susceptibility to Other Antimicrobials

In 2014, 37.0% of isolates collected from GISP sites were resistant to penicillin, tetracycline, ciprofloxacin, or some combination of those antimicrobials (Figure 29). Although these antimicrobials are no longer recommended for treatment of gonorrhea, the resistance phenotypes remain common. Conversely, 63.0% of isolates were susceptible to all three of these antimicrobials.

Antimicrobial Treatments Given for Gonorrhea

The antimicrobial agents given to GISP patients for gonorrhea therapy are shown in Figure 30. The proportion of patients treated with ceftriaxone 250 mg increased from 84.0% in 2011 to 96.9% in 2013. In 2014, 93.7% of patients were treated with ceftriaxone 250 mg, 1.9% of patients were treated with azithromycin 2 grams as monotherapy, and 1 patient ($<0.1\%$) was treated with cefixime.

Gonorrhea Among Special Populations

More information about gonorrhea in race/ethnicity groups, women of reproductive age, adolescents, and MSM can be found in the Special Focus Profiles.

Gonorrhea Summary

The national rate of reported gonorrhea cases reached an historic low in 2009, but increased each year during 2009–2012. After a temporary decrease in 2013, the gonorrhea rate increased again in 2014. This increase was largely attributable to an increase among men. High gonorrhea rates persist in certain geographic areas, among adolescents and young adults, and in some racial/ ethnic groups.

GISP continues to monitor for the emergence of decreased susceptibility and resistance to cephalosporins and azithromycin.

¹ Fleming DT, Wasserheit JN. From epidemiological synergy to public health policy and practice: the contribution of other sexually transmitted diseases to sexual transmission of HIV infection. *Sex Transm Infect* 1999; 75(1): 3–17.

² Hogben M, Leichter JS. Social determinants and sexually transmitted disease disparities. *Sex Transm Dis*. 2008 Dec; 35(12 Suppl):S13–8.

³ Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines, 2015. *MMWR Morb Mortal Wkly Rep* 2015; 64(No. RR-3): 1–137.

⁴ Satterwhite CL, Torrone E, Meites E, et al. Sexually transmitted infections among US women and men: prevalence and incidence estimates, 2008. *Sex Transm Dis* 2013; 40(3): 187–193.

⁵ Centers for Disease Control and Prevention. Update to CDC's sexually transmitted diseases treatment guidelines, 2006: fluoroquinolones no longer recommended for treatment of gonococcal infections. *MMWR Morb Mortal Wkly Rep* 2007; 56: 332–336.

⁶ Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines, 2010. *MMWR Recomm Rep* 2010; 59(No. RR-12): 1–110.

⁷ Schwarcz S, Zenilman J, Schnell D, et al. National surveillance of antimicrobial resistance in *Neisseria gonorrhoeae*. *JAMA* 1990; 264: 1413–1417.

Figure 12. Gonorrhea — Rates of Reported Cases by Year, United States, 1941–2014

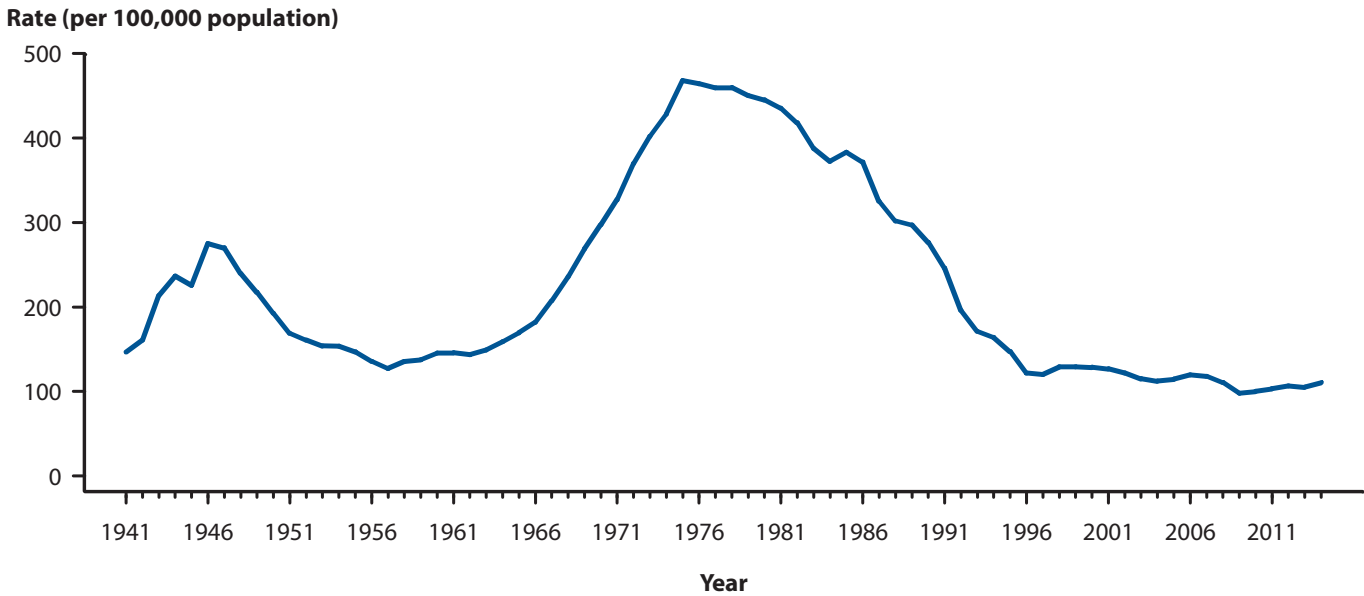


Figure 13. Gonorrhea — Rates of Reported Cases by Sex, United States, 1994–2014

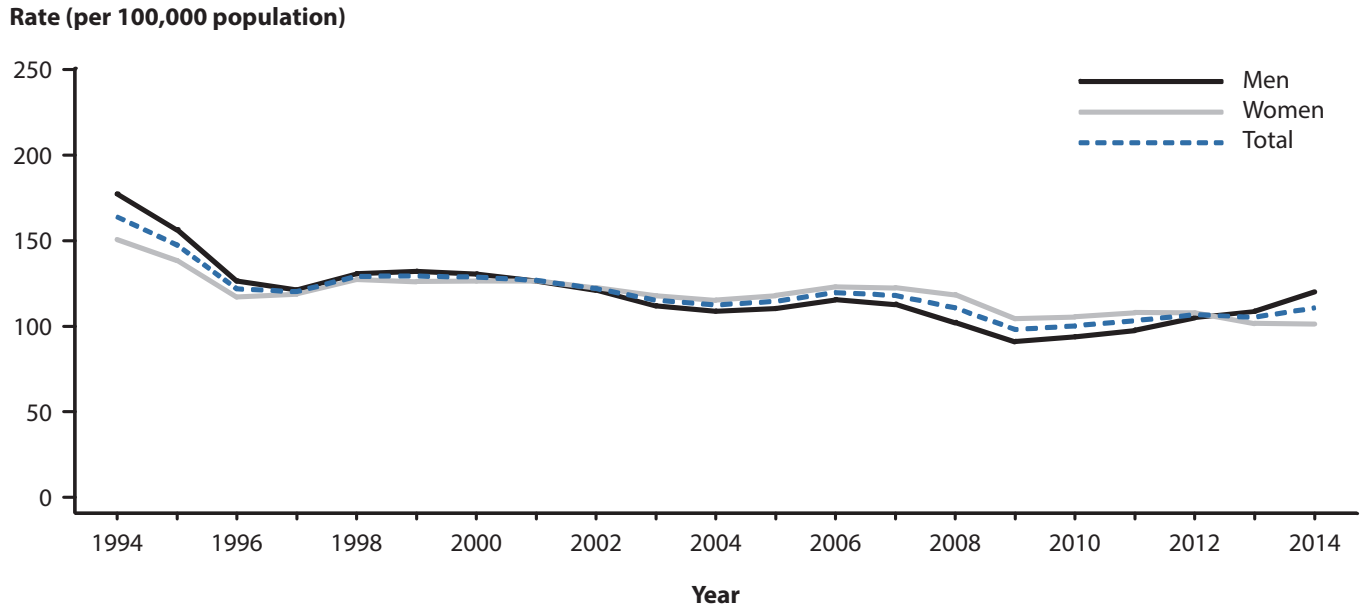


Figure 14. Gonorrhea — Rates of Reported Cases by Region, United States, 2005–2014

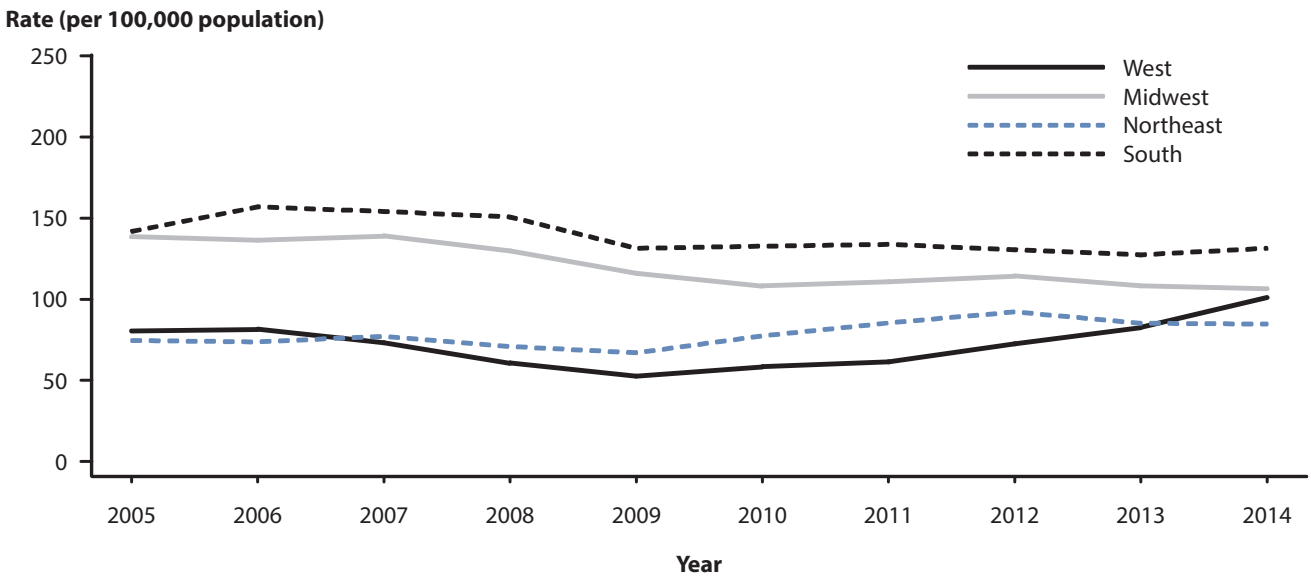
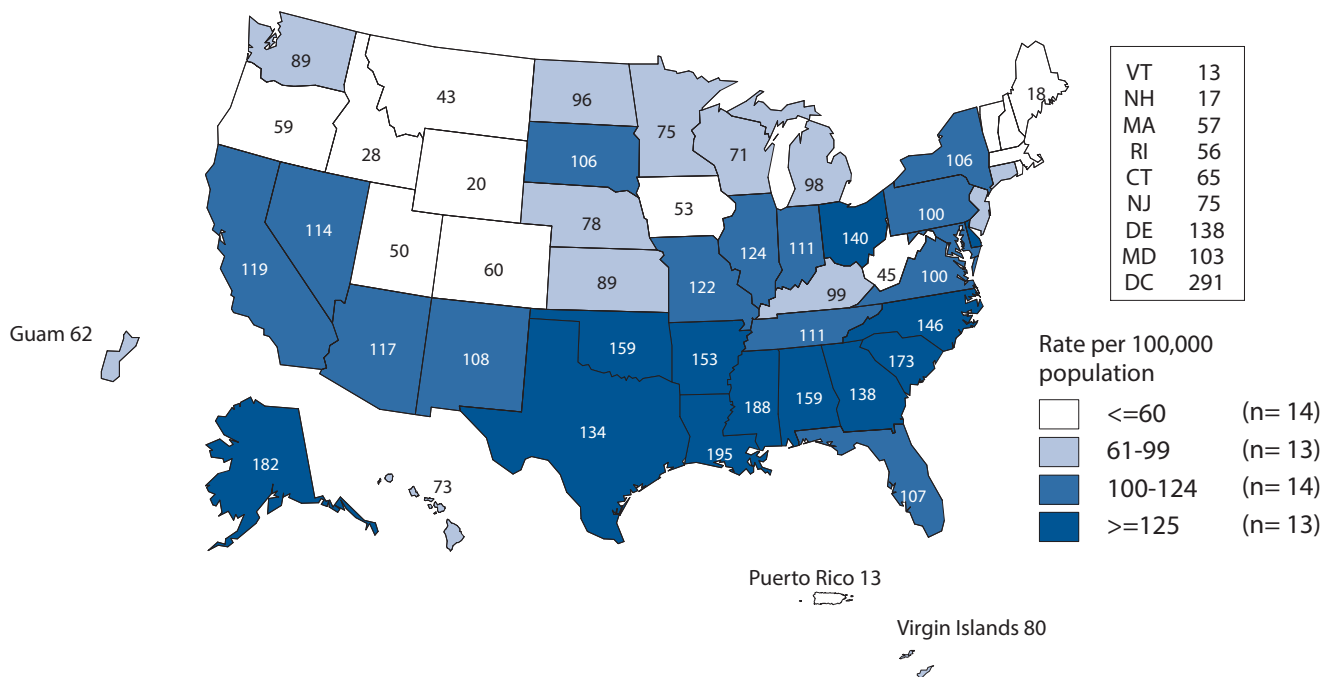


Figure 15. Gonorrhea — Rates of Reported Cases by State, United States and Outlying Areas, 2014



NOTE: The total rate of reported cases of gonorrhea for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 109.6 per 100,000 population.

Figure 16. Gonorrhea — Rates of Reported Cases by County, United States, 2014

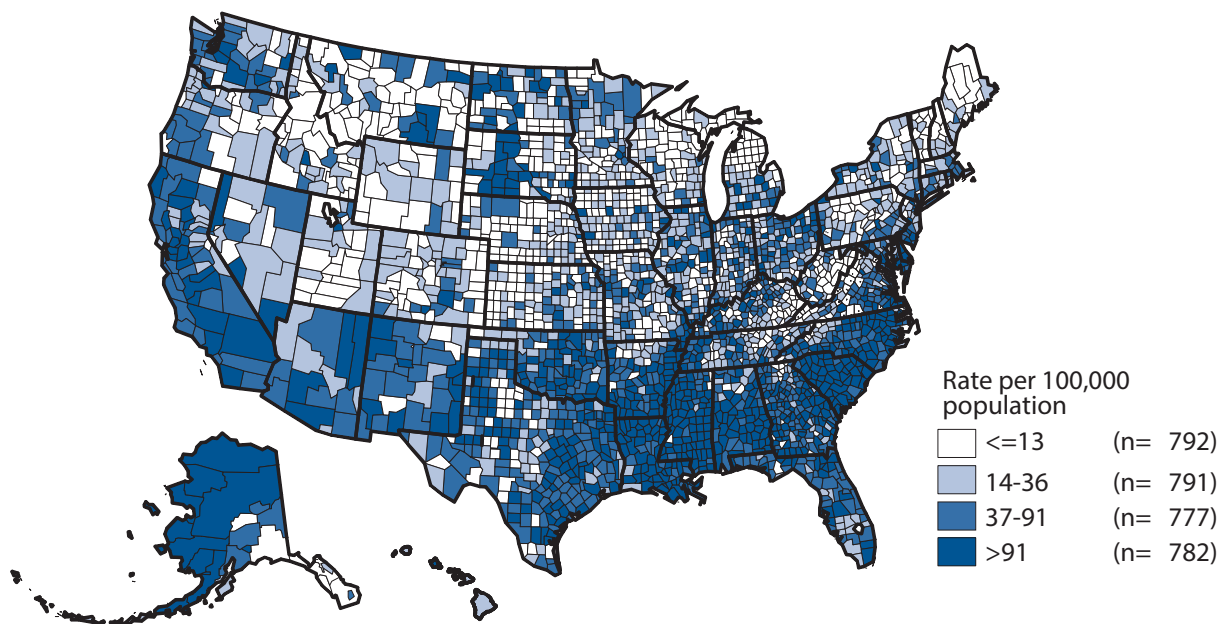


Figure 17. Gonorrhea — Rates of Reported Cases by Age and Sex, United States, 2014

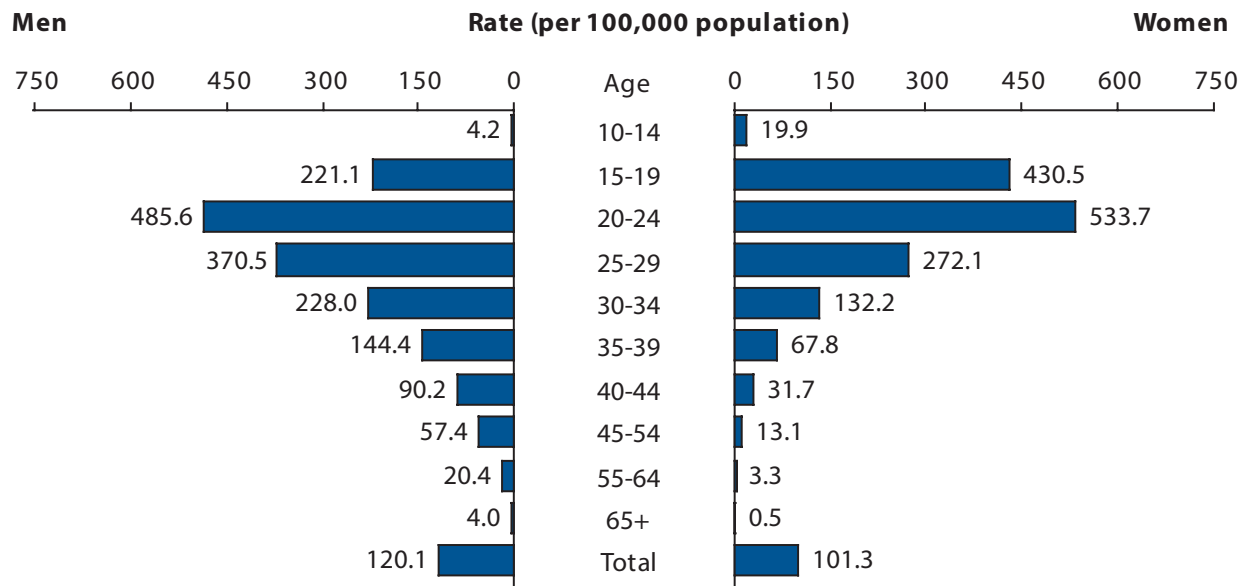


Figure 18. Gonorrhea — Rates of Reported Cases Among Women Aged 15–44 Years by Age, United States, 2005–2014

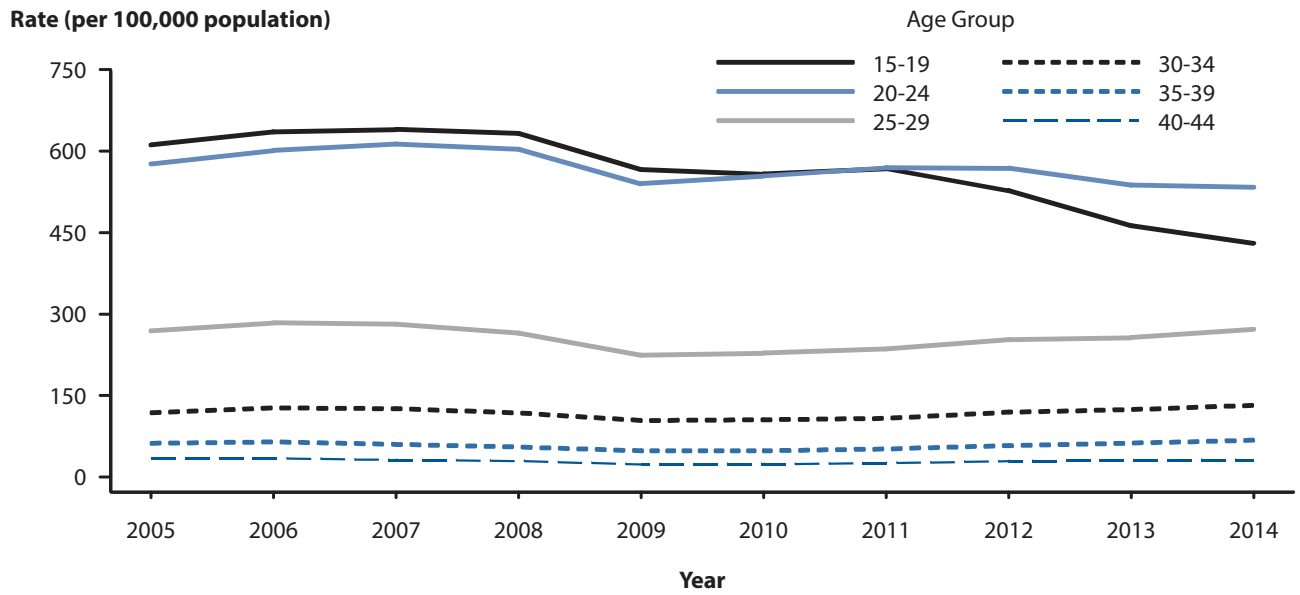


Figure 19. Gonorrhea — Rates of Reported Cases Among Men Aged 15–44 Years by Age, United States, 2005–2014

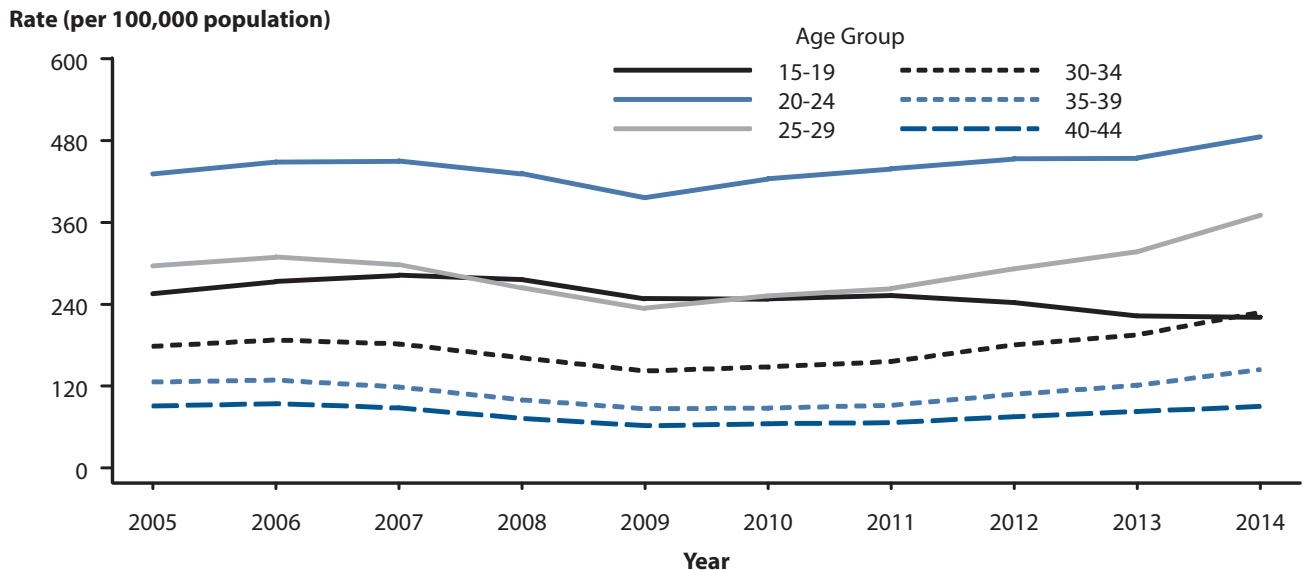
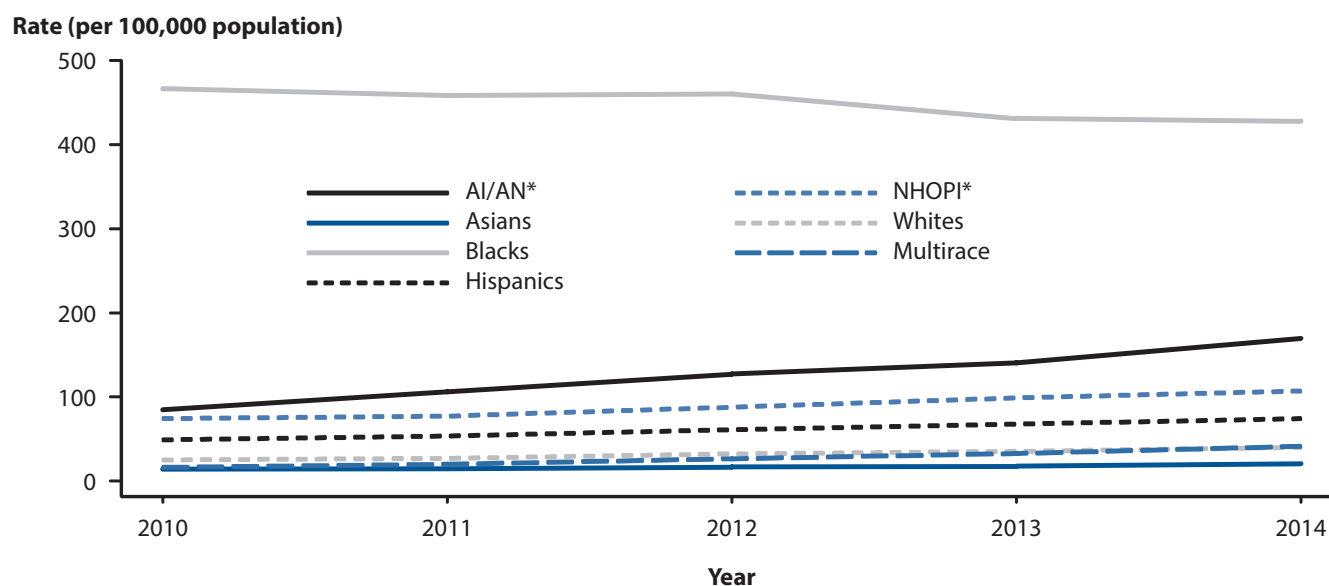


Figure 20. Gonorrhea — Rates of Reported Cases by Race/Ethnicity, United States, 2010–2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 43 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

Figure 21. Gonorrhea — Reported Cases by Reporting Source and Sex, United States, 2005–2014

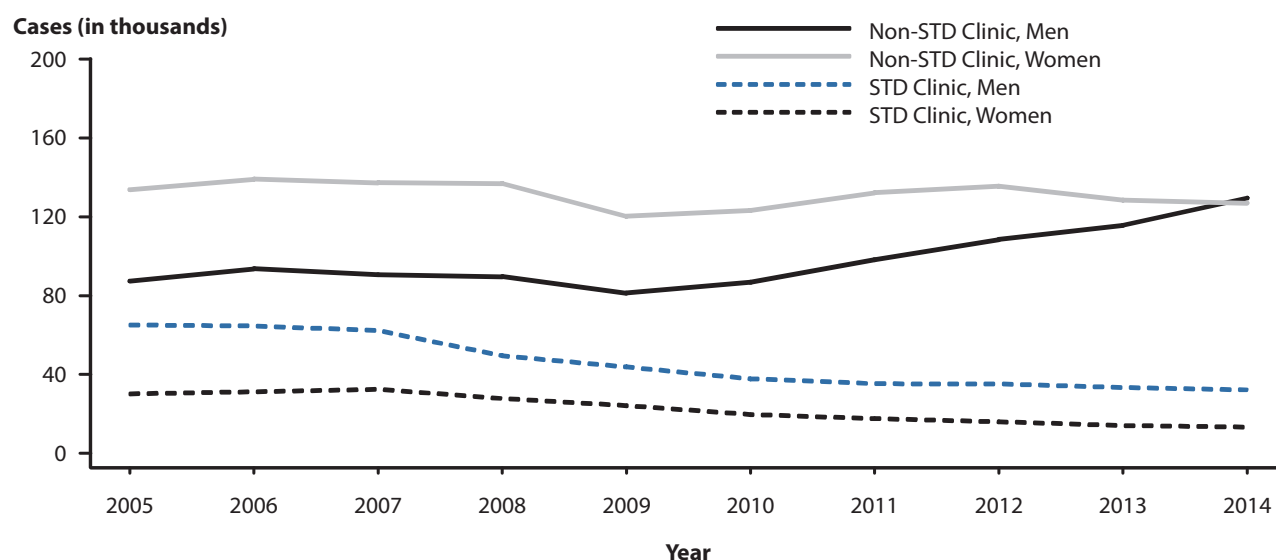
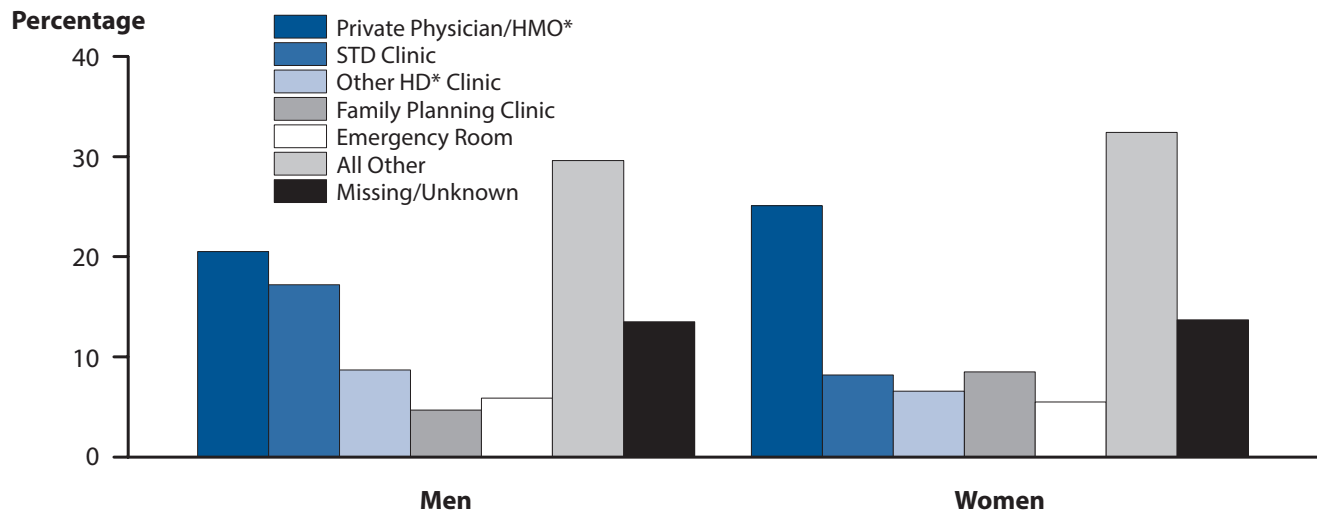


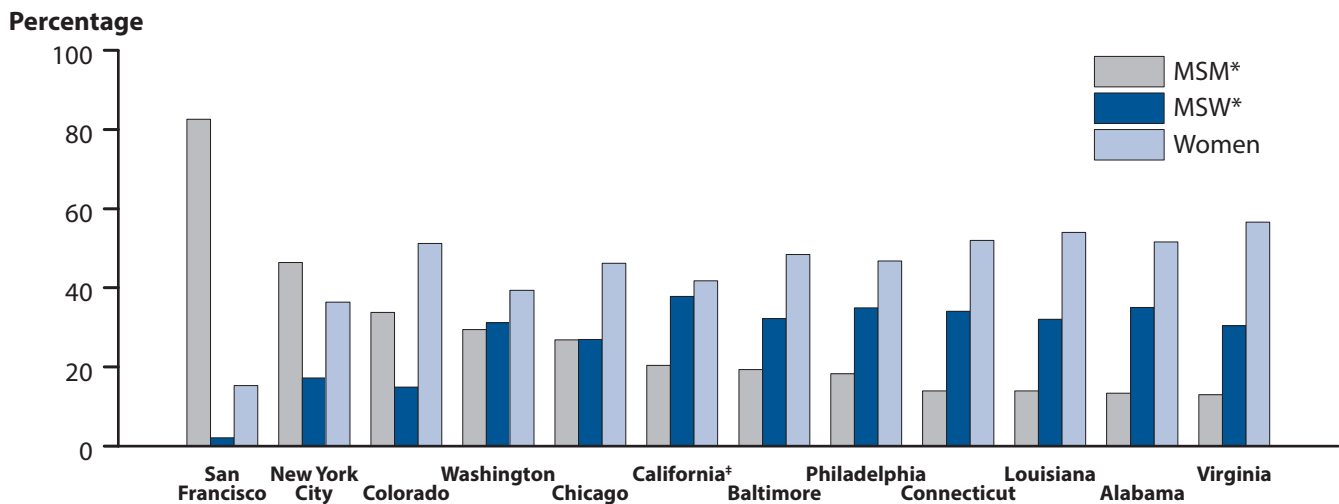
Figure 22. Gonorrhea — Percentage of Reported Cases by Sex and Reporting Sources, United States, 2014



* HMO = health maintenance organization; HD = health department.

NOTE: Other includes: Drug Treatment, Tuberculosis Clinic, Correctional Facility, Laboratory, Blood Bank, Labor and Delivery, Prenatal Care, National Job Training Program, School-based Clinic, Mental Health Provider, Other Hospital, Indian Health Service, Military, and HIV Counseling and Testing Site

Figure 23. Gonorrhea — Estimated Proportion of MSM*, MSW*, and Women Among Gonorrhea Cases[†] by Site, STD Surveillance Network (SSuN), 2013



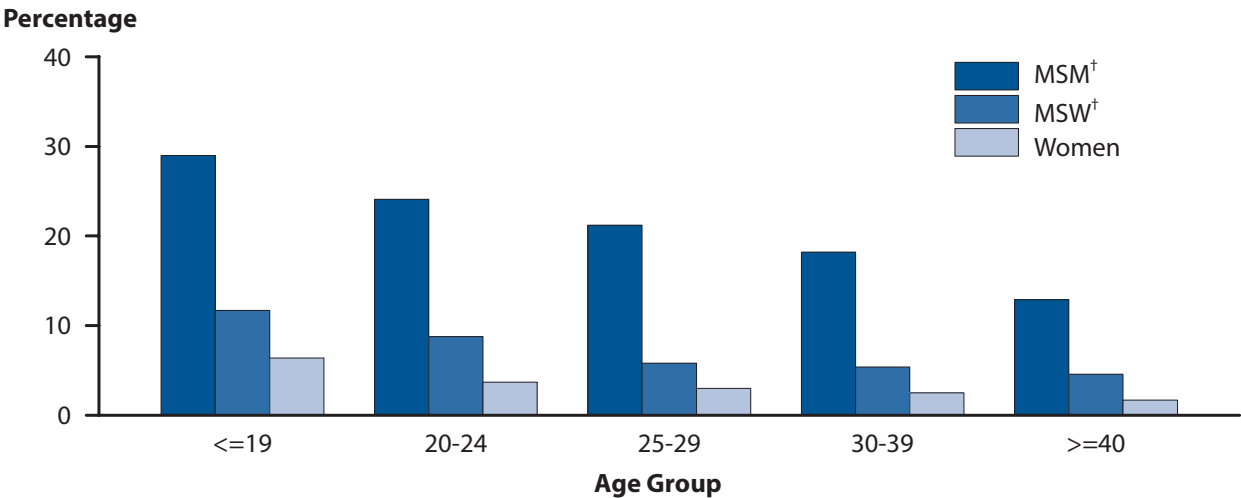
* MSM = men who have sex with men; MSW = men who have sex with women only.

[†] Estimate based on weighted analysis of data obtained from interviews (n=3,121) conducted among a random sample of reported gonorrhea cases during January to June 2013.

[‡] California data excludes San Francisco County (shown separately).

NOTE: See Section A2.2 in the Appendix for STD Surveillance Network (SSuN) methods and jurisdictions included in each project area.

Figure 24. Gonorrhea — Proportion of STD Clinic Patients* Testing Positive by Age, Sex, and Sexual Behavior, STD Surveillance Network (SSuN), 2014



* Only includes patients tested for gonorrhea.

[†] MSM = men who have sex with men; MSW = men who have sex with women only.

NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) that contributed data for all of 2014.

Figure 25. Location of Participating Sentinel Sites and Regional Laboratories, Gonococcal Isolate Surveillance Project (GISP), United States, 2014



NOTE: Austin is a regional laboratory only.

Figure 26. *Neisseria gonorrhoeae* — Percentage of Isolates with Elevated Ceftriaxone Minimum Inhibitory Concentrations (MICs) (≥ 0.125 $\mu\text{g/ml}$), Gonococcal Isolate Surveillance Project (GISP), 2006–2014

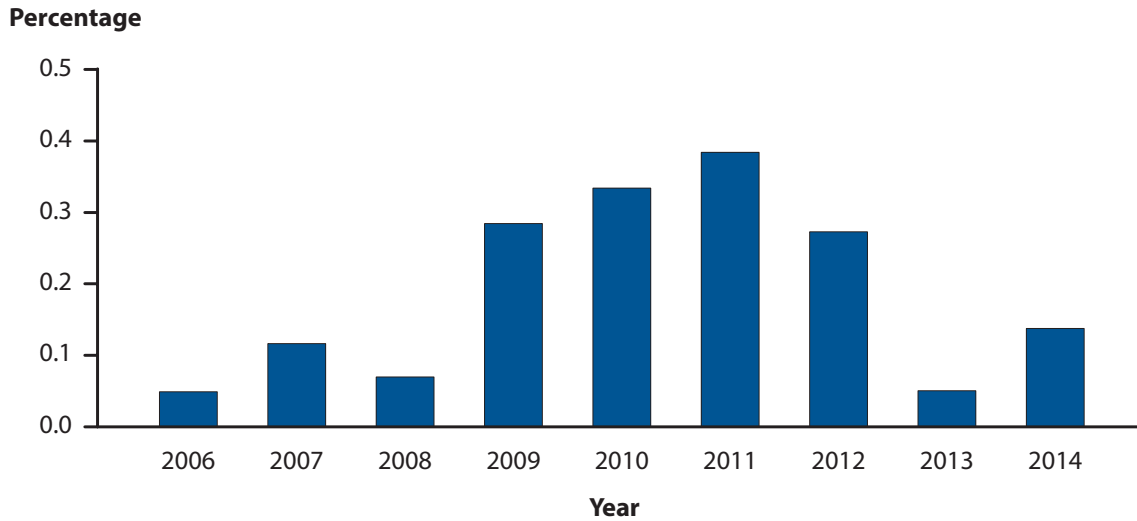
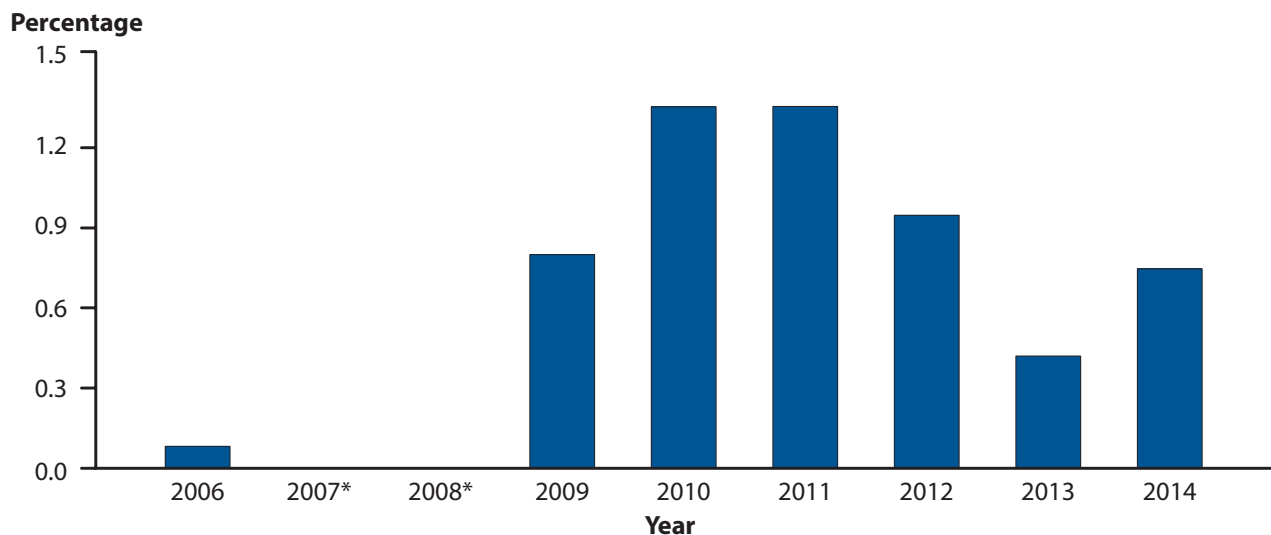


Figure 27. *Neisseria gonorrhoeae* — Percentage of Isolates with Elevated Cefixime Minimum Inhibitory Concentrations (MICs) (≥ 0.25 $\mu\text{g/ml}$), Gonococcal Isolate Surveillance Project (GISP), 2006–2014



* Isolates not tested for cefixime susceptibility in 2007 and 2008.

Figure 28. *Neisseria gonorrhoeae* — Distribution of Azithromycin Minimum Inhibitory Concentrations (MICs), Gonococcal Isolate Surveillance Project (GISP), 2010–2014

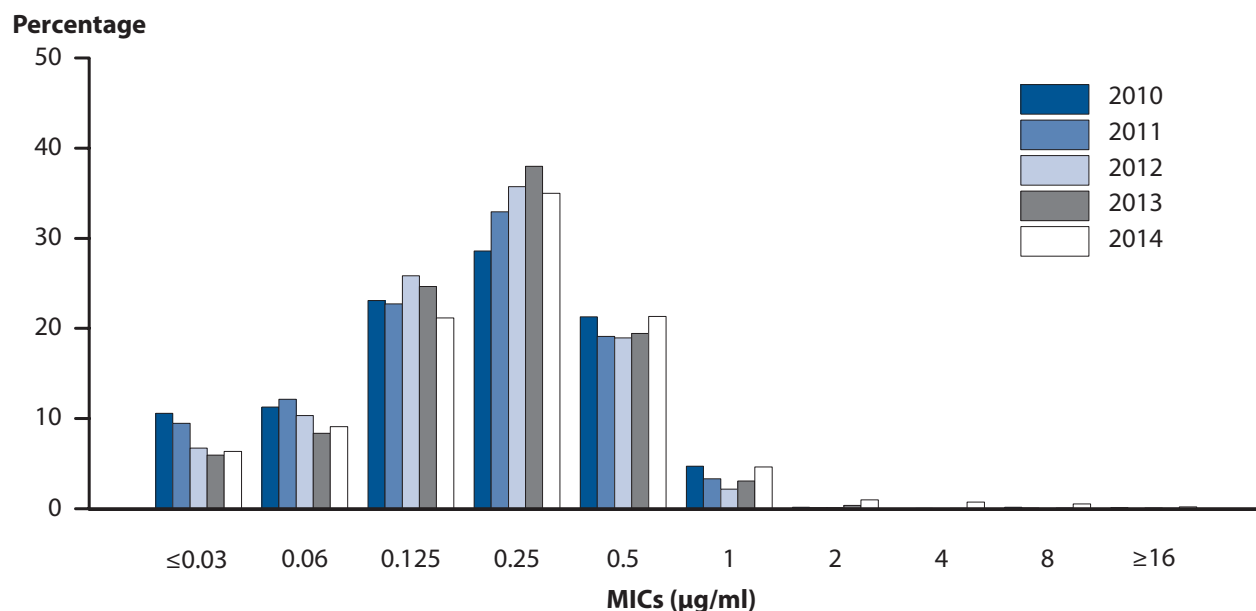
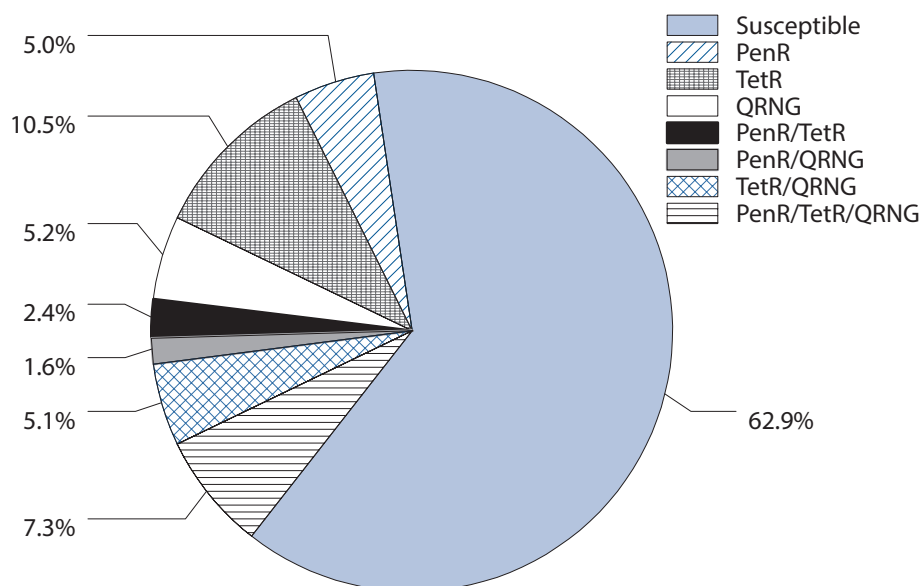
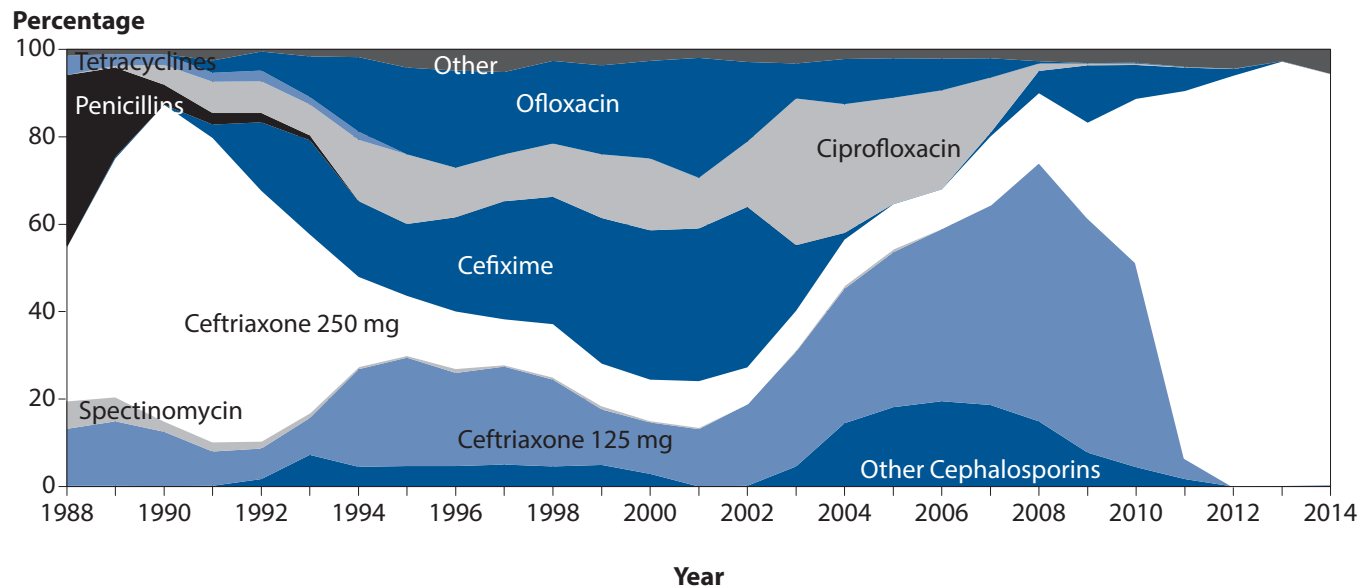


Figure 29. *Neisseria gonorrhoeae* — Percentage of Isolates with Penicillin, Tetracycline, and/or Ciprofloxacin Resistance, Gonococcal Isolate Surveillance Project (GISP), 2014



NOTE: PenR = penicillinase-producing *Neisseria gonorrhoeae* and chromosomally-mediated penicillin-resistant *N. gonorrhoeae*; TetR = chromosomally- and plasmid-mediated tetracycline-resistant *N. gonorrhoeae*; and QRNG = quinolone-resistant *N. gonorrhoeae*.

Figure 30. Primary Antimicrobial Drugs Used to Treat Gonorrhea Among Participants, Gonococcal Isolate Surveillance Project (GISP), 1988–2014



NOTE: For 2014, "Other" includes clinical trial study drugs (2.9%), azithromycin 2g (1.9%), no therapy (0.7%), and other less frequently used drugs (0.1%).

Syphilis

Background

Syphilis, a genital ulcerative disease caused by the bacterium *Treponema pallidum*, is associated with significant complications if left untreated and can facilitate the transmission and acquisition of HIV infection.^{1–3} Additionally, historical data demonstrate that untreated early syphilis in pregnant women may result in perinatal death of the infant in up to 40% of cases and, if acquired during the 4 years before pregnancy, can lead to infection of the fetus in 80% of cases.⁴

In 2000 and 2001, the national rate of reported primary and secondary (P&S) syphilis cases was 2.1 cases per 100,000 population, the lowest rate since reporting began in 1941 (Figure 31, Table 1). However, the P&S syphilis rate has increased almost every year since 2000–2001. In 2014, a total of 19,999 P&S syphilis cases were reported, and the national P&S syphilis rate increased to 6.3 cases per 100,000 population, the highest rate reported since 1994.

During 2000–2014, the rise in the P&S syphilis rate was primarily attributable to increased cases among men and, specifically, among gay, bisexual, and other men who have sex with men (collectively referred to as MSM) (Figures 32 and 33). However, during 2013–2014, the rate increased both among men (14.4%) and among women (22.7%) (Tables 28 and 29). This increase among women is of particular concern because congenital syphilis cases tend to increase as the rate of P&S syphilis among women increases (Figure 46). During 2013–2014, the overall, male, and female P&S syphilis rates increased in every region of the country (Figure 34, Tables 27–29). Nationally, P&S syphilis rates increased in every age group 15–44 years of age (Table 35) and in every race/ethnicity group except for Native Hawaiians/Other Pacific Islanders during 2013–2014 (Figure 40).

As in recent years, MSM accounted for the majority of P&S syphilis cases in 2014 (Figures 32 and 41). Nationally, the highest rates of P&S syphilis in 2014 were observed among men aged 20–24 years and 25–29 years (Figure 37, Table 35), among men in the West and in the South (Table 29), and among black men (Table 36B).

Interpreting Rates of Reported Cases of Syphilis

Left untreated, infection with syphilis can span decades. Primary and secondary syphilis are the earliest stages of infection, reflect symptomatic disease, and are indicators of incident infection.⁵ For these reasons, trend analyses of syphilis focus on reported cases and rates of reported cases of P&S syphilis. When referring to “P&S syphilis”, case counts are the sum of both primary and secondary cases, and “rate of P&S syphilis” refers to this sum per unit population. Changes in reporting and screening practices can complicate interpretation of trends over time. To minimize the effect of changes in reporting over time, trend data in this report are restricted to jurisdictions that consistently report data of interest (e.g., sex of sex partner) for each year of a given time period. Details of these restrictions are provided in the text and footnotes of the pertinent text and figures.

P&S Syphilis — United States

In 2014, a total of 19,999 cases of P&S syphilis were reported in the United States, yielding a rate of 6.3 cases per 100,000 population (Table 1). This rate represents a 15.1% increase compared with 2013 (5.5 cases per 100,000 population), and a 40.0% increase compared with 2010 (4.5 cases per 100,000 population).

P&S Syphilis by Region

In 2014, the West had the highest rate of reported P&S syphilis cases (7.9 cases per 100,000 population), followed by the South (6.9 cases per 100,000 population), the Northeast (5.5 cases per 100,000 population), and the Midwest (4.4 cases per 100,000 population) (Table 27). During 2013–2014, the P&S syphilis rate increased in every region: 17.9% in the West, 16.9% in the South, 14.6% in the Northeast, and 10.0% in the Midwest (Figure 34, Table 27).

P&S Syphilis by State

In 2014, rates of reported P&S syphilis cases per 100,000 population ranged by state from 0.7 in Wyoming to 12.8 in Nevada; the P&S syphilis rate in the District of Columbia was 17.9 cases per 100,000 population (Figure 35, Table 26). During 2013–2014, P&S syphilis rates increased in 70% (35/50) of states and in the District of Columbia, and decreased in 30% (15/50) of states (Table 27).

P&S Syphilis by Metropolitan Statistical Area

The overall rate of reported P&S syphilis cases in the 50 most populous metropolitan statistical areas (MSAs) was 8.7 cases per 100,000 population in 2014, which represents a 13.0% increase since 2013 (7.7 cases per 100,000 population) (Table 30). In 2014, 74.9% of reported P&S syphilis cases (76.5% of male cases and 59.5% of female cases) were reported by these 50 MSAs. In 2014, the rate among women in these MSAs was 1.2 cases per 100,000 females, while the rate among men was 16.4 cases per 100,000 males (Tables 31 and 32).

P&S Syphilis by County

In 2014, 67% of reported P&S syphilis cases occurred in just 70 counties or independent cities (Table 33). Of 3,142 counties in the United States, 411 (13.1%) had a rate greater than 5.4 cases per 100,000 population, 400 (12.7%) reported a rate from 2.5 to 5.4 cases per 100,000 population, 389 (12.4%) reported a rate between 0.3 and 2.4 cases per 100,000 population, and 1,942 (61.8%) counties reported no cases of P&S syphilis in 2014 (Figure 36).

P&S Syphilis by Sex and Sex Behavior

As has been observed in previous years, in 2014 the rate of reported P&S syphilis cases among men (11.7 cases per 100,000 males) was much higher than the rate among women (1.1 cases per 100,000 females), and men account for a large majority (90.8%) of P&S syphilis cases with known sex (Figure 37, Tables 28 and 29). Among men, the rate of P&S syphilis has increased every year since 2000, and during 2013–2014 the rate among men increased 14.4% (Figure 33). In contrast, the P&S syphilis rate among women has fluctuated between 0.8 and 1.7 cases per 100,000 females since 2000. During 2013–2014, the P&S syphilis rate among women increased 22.7%.

These increases in male and female P&S syphilis rates were observed in every region of the country during 2013–2014. Among men, the rate increased 17.0% in the South, 15.9% in the West, 15.1% in the Northeast, and 6.8% in the Midwest (Table 29). Among women, the largest increases were observed in the West (50%), followed by the Midwest (28.5%), Northeast (25.0%), and South (7.1%).

MSM continued to account for the majority of P&S syphilis cases in 2014 (Figures 32 and 41). Of 19,999 P&S reported syphilis cases in 2014, 12,226 (61.1%) were among MSM, 2,513 (12.6%) were among men who have sex with women only (MSW), 1,840 (9.2%) were among women, 3,407 (17.0%) were among men without information about sex of sex partner, and 13 (0.1%) were cases reported with unknown sex (Figure 41). Among male cases with information on sex of sex partner, 82.9% occurred among MSM.

This same pattern was observed across race/ethnicity groups: the majority of P&S syphilis cases among whites, blacks, and Hispanics in 2014 occurred among MSM (Figure 42). Among MSM, the largest proportion of P&S syphilis cases in 2014 occurred among whites (37.6%), followed by blacks (31.8%) and Hispanics (21.8%). In contrast, the largest proportion of cases among MSW and women occurred among blacks (48.4% of cases among MSW and 50.0% of cases among women).

A total of 27 states reported sex of sex partner data for at least 70% of reported P&S cases each year during 2007–2014. In these states during 2013–2014, the number of cases increased 8.8% among MSM, 16.3% among MSW, and 28.1% among women. (Figure 32).

P&S Syphilis by Age

As in previous years, in 2014 rates of reported P&S syphilis cases were highest among persons aged 20–24 years and 25–29 years (Figure 37, Table 35). In 2014, the highest rates were observed among men aged 25–29 years (34.0 cases per 100,000 males) and 20–24 years (31.1 cases per 100,000 males). Similarly, the highest rates among women were among those aged 25–29 years (4.5 cases per 100,000 women) and those aged 20–24 years (2.5 cases per 100,000 women).

During 2013–2014, the P&S syphilis rate increased among all age groups aged 15–64 years (Table 35). Rates increased 11.6% among persons aged 15–19 years, 13.1% among persons aged 20–24 years, 23.4% among those aged 25–29 years, 18.3% among those aged 30–34 years, 13.0% among those aged 35–39 years, 3.7% among those aged 40–44 years, 13.3% among those aged 45–54 years, and 21.1% among those aged 55–64 years (Table 35).

In 2014, persons aged 15–44 years accounted for 79.7% of reported P&S syphilis cases with known age. Among men, the P&S syphilis rate increased during 2013–2014 among all age groups 15–44 years of age (Figure 39). Among women, the P&S syphilis rate remained stable among those aged 40–44 years, but increased among all age groups 15–39 years of age (Figure 38).

P&S Syphilis by Race/Ethnicity

In 2014, among the 49 states that submitted data in the race and ethnicity categories according to Office of Management and Budget (OMB) standards (see Section A1.5 in the Appendix), the rate of reported P&S syphilis cases remained highest among blacks (18.9 cases per 100,000 population) (Table 36B). The rate among blacks was 5.4 times the rate among whites (3.5 cases per 100,000 population). The P&S syphilis rates among American Indians/Alaska Natives (7.6 cases per 100,000 population) and Hispanics (7.6 cases per 100,000 population) were 2.2 times the rate among whites, the rate among Native Hawaiians/Other Pacific Islanders (6.5 cases per 100,000 population) was 1.9 times the rate among whites, and the rate among Asians (2.8 cases per 100,000 population) was 0.8 times the rate among whites.

During 2010–2014, among the 44 states that submitted race and ethnicity data according to OMB standards (see Section A1.5 in the Appendix) for all five years during that period, the P&S syphilis rate increased among all race/ethnicity groups (Figure 40). During 2013–2014, rates increased in every race/ethnicity group except for Native Hawaiians/Other Pacific Islanders. The greatest increases during 2013–2014 were observed among American Indians/Alaska Natives (68.8%) and those who identified as multiracial (47.3%), followed by Hispanics (15.7%), whites (14.3%), Asians (12.8%), and blacks (11.4%).

More information on P&S syphilis rates among race/ethnicity groups can be found in the Special Focus Profiles.

P&S Syphilis and HIV Co-infection

Reported cases of P&S syphilis continue to be characterized by a high rate of HIV co-infection, particularly among MSM. In 2014, 26 states reported both sex of sex partner and HIV status (HIV-positive or HIV-negative) for at least 70% of P&S syphilis cases (Figure 43). Among P&S syphilis cases with known HIV-status in these states, 51.2% of cases among MSM were HIV-positive, compared with 10.7% of cases among MSW, and 5.9% of cases among women.

P&S Syphilis by Reporting Source

The number of P&S syphilis cases reported by STD clinics and by non-STD clinic settings increased during 2005–2014 (Figure 44). However, the proportion of P&S syphilis cases that were reported by STD clinics declined during this period, from 31.3% of cases with known reporting source in 2005 to 24.9% of cases in 2014 (Table A2). In 2014, STD clinics and private physicians or health maintenance organizations (HMOs) were the most common reporting sources among MSM (28.7% and 28.2%, respectively), MSW (25.7% and 23.3% of cases, respectively), and women (18.7% and 24.3%, respectively) (Figure 45).

Congenital Syphilis

After decreasing during 2008–2012 (from 10.5 to 8.4 reported cases per 100,000 live births), the rate of reported congenital syphilis increased in 2013 to 9.1 cases per 100,000 live births (Table 1). During 2013–2014, the rate increased 27.5% to 11.6 cases per 100,000 live births in 2014. As has been observed historically, this increase paralleled a similar increase (22.2%) in P&S syphilis among women during 2013–2014 (Figure 46).

In 2014, the highest congenital syphilis rates continued to be reported from the South (15.5 cases per 100,000 live births), followed by the West (12.6 cases per 100,000 live births), Midwest (8.5 cases per 100,000 live births), and the Northeast (4.7 cases per 100,000 live births). During 2013–2014, the congenital syphilis rate increased in every region, with the largest increases occurring in the Northeast (74.1%) and West (63.6%) compared with the Midwest (32.8%) and South (9.2%) (Table 42). Increased congenital syphilis rates were also observed among most race/ethnicity groups during 2013–2014, including whites (32.1%), blacks (21.6%), Hispanics (19.6%), and Asians/Pacific Islanders (102.9%) (Table 43).

Syphilis — All Stages (P&S, Early Latent, Late, Late Latent, and Congenital)

Total case counts and rates for syphilis were the highest recorded since 1995. The total number of cases of syphilis (P&S, early latent, late, late latent, and congenital) reported to CDC increased 12.3% during 2013–2014 (from 56,482 cases to 63,450 cases) (Table 1). The number of cases of early latent syphilis reported to CDC increased 14.8% (from 16,929 cases to 19,452 cases), and the number of cases of late and late latent syphilis increased 7.9% (from 21,819 cases to 23,541 cases) (Tables 1, 37, and 39).

Syphilis among Special Populations

More information about syphilis and congenital syphilis in race/ethnicity groups, women of reproductive age, adolescents, and MSM can be found in the Special Focus Profiles.

Syphilis Summary

The national rate of reported P&S syphilis cases reached an historic low in 2000 and 2001, but has increased almost every year since then. This increase was largely attributable to an increase among men, and in particular among MSM. However, during 2013–2014, rates increased among both men and women in every region of the country. Rates of reported congenital syphilis cases also increased in every region of the country during 2013–2014.

MSM continued to account for the majority of P&S syphilis cases in 2014. Nationally, the highest rates of P&S syphilis in 2014 were observed among men aged 20–24 years and 25–29 years, among men in the West and in the South, and among black men.

¹ Jarzebowski W, Caumes E, Dupin N, et al. Effect of early syphilis infection on plasma viral load and CD4 cell count in human immunodeficiency virus-infected men: results from the FHDH-ANRS CO4 cohort. *Arch Intern Med* 2012; 172: 1237–1243.

² Buchacz K, Patel P, Taylor M, et al. Syphilis increases HIV viral load and decreases CD4 cell counts in HIV-infected patients with new syphilis infections. *AIDS* 2004; 18:2075–2079.

³ Fleming DT, Wasserheit JN. From epidemiological synergy to public health policy and practice: the contribution of other sexually transmitted diseases to sexual transmission of HIV infection. *Sex Trans Infect* 1999; 75: 3–17.

⁴ Ingraham NR. The value of penicillin alone in the prevention and treatment of congenital syphilis. *Acta Derm Venereol* 1951; 31(Suppl 24): 60–88.

⁵ Peterman TA, Kahn RH, Ciesielski CA, Ortiz-Rios E, Furness BW, Blank S, et al. Misclassification of the stages of syphilis: implications for surveillance. *Sex Transm Dis*. 2005;32(3):144-9.

Figure 31. Syphilis — Reported Cases by Stage of Infection, United States, 1941–2014

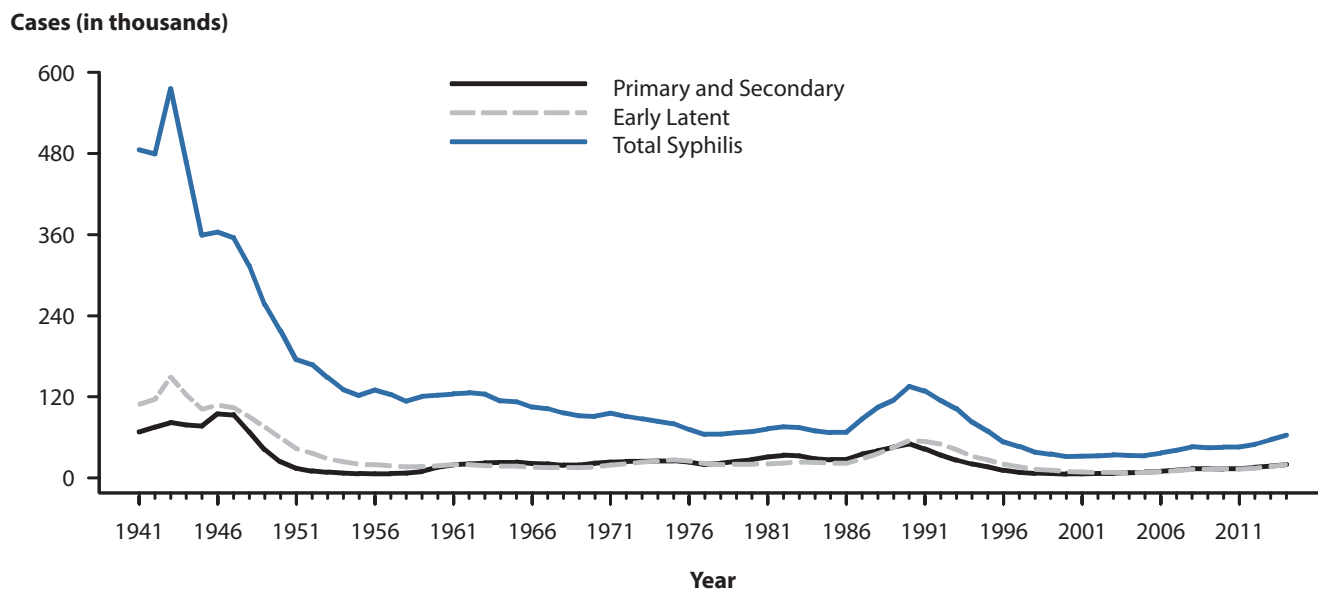
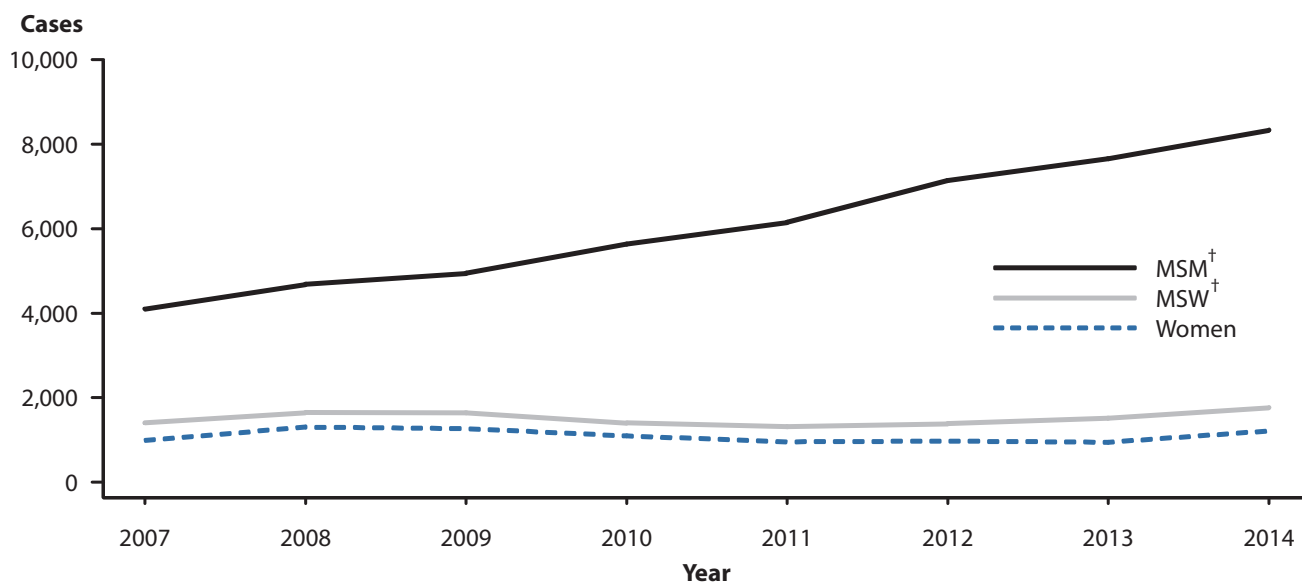


Figure 32. Primary and Secondary Syphilis — Reported Cases by Sex and Sexual Behavior, 27 Areas*, 2007–2014



* 27 states reported sex of partner data for $\geq 70\%$ of reported cases of primary and secondary syphilis for each year during 2007–2014.

[†] MSM = men who have sex with men; MSW = men who have sex with women only.

Figure 33. Primary and Secondary Syphilis — Rates of Reported Cases by Sex and Male-to-Female Rate Ratios, United States, 1990–2014

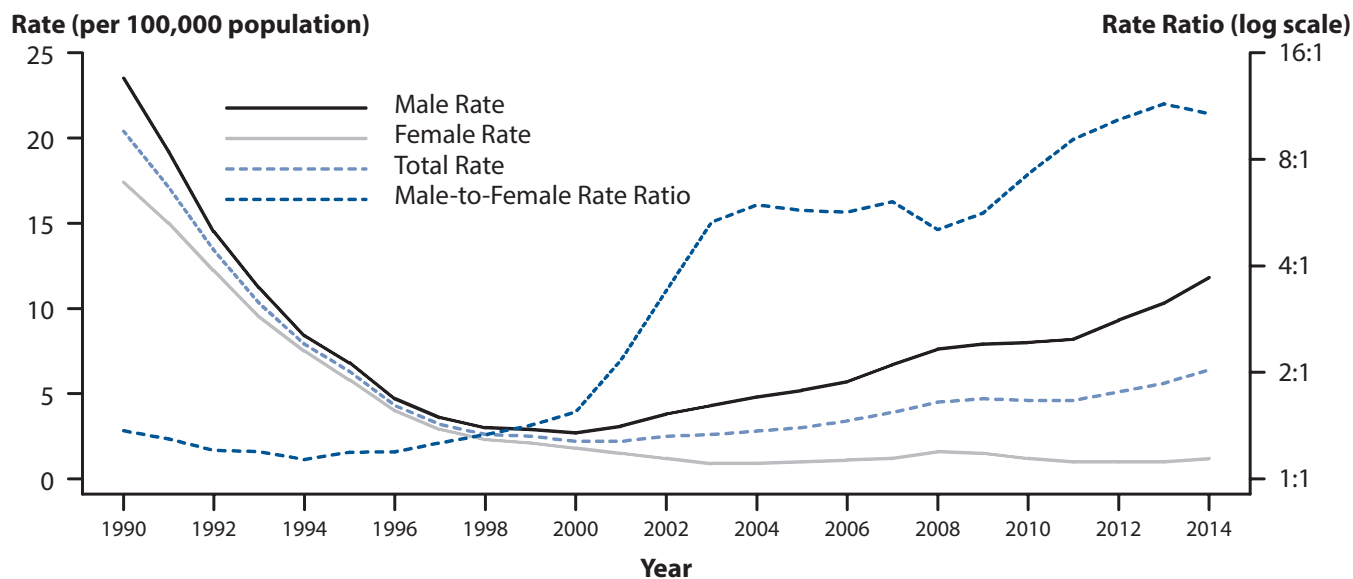


Figure 34. Primary and Secondary Syphilis — Rates of Reported Cases by Region, United States, 2005–2014

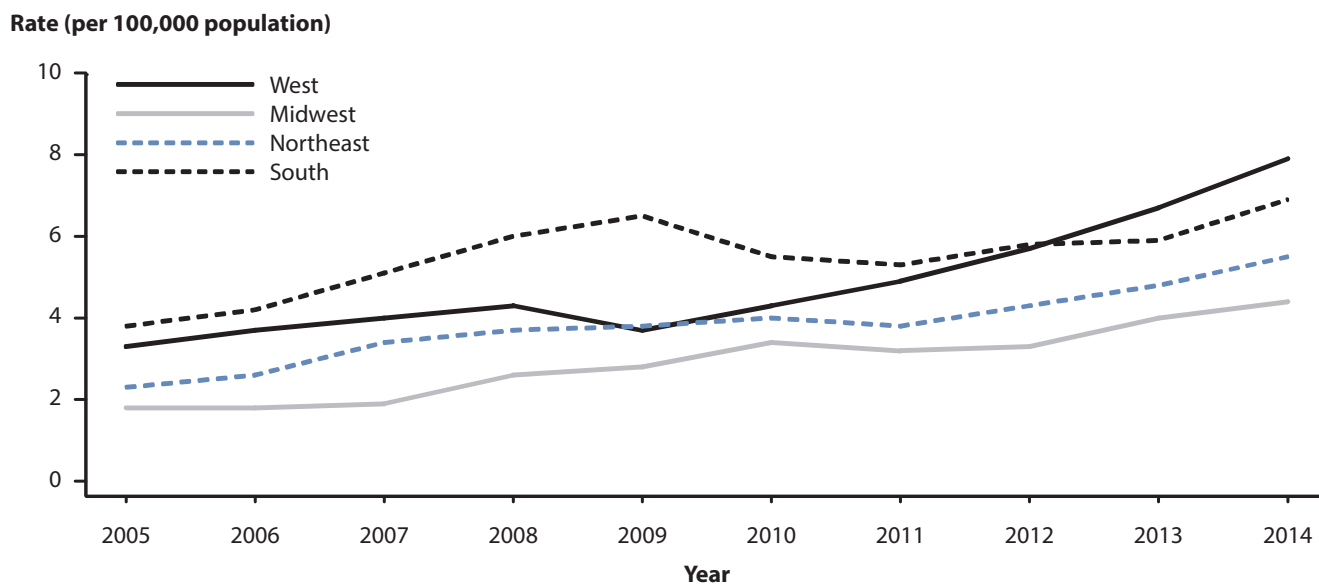
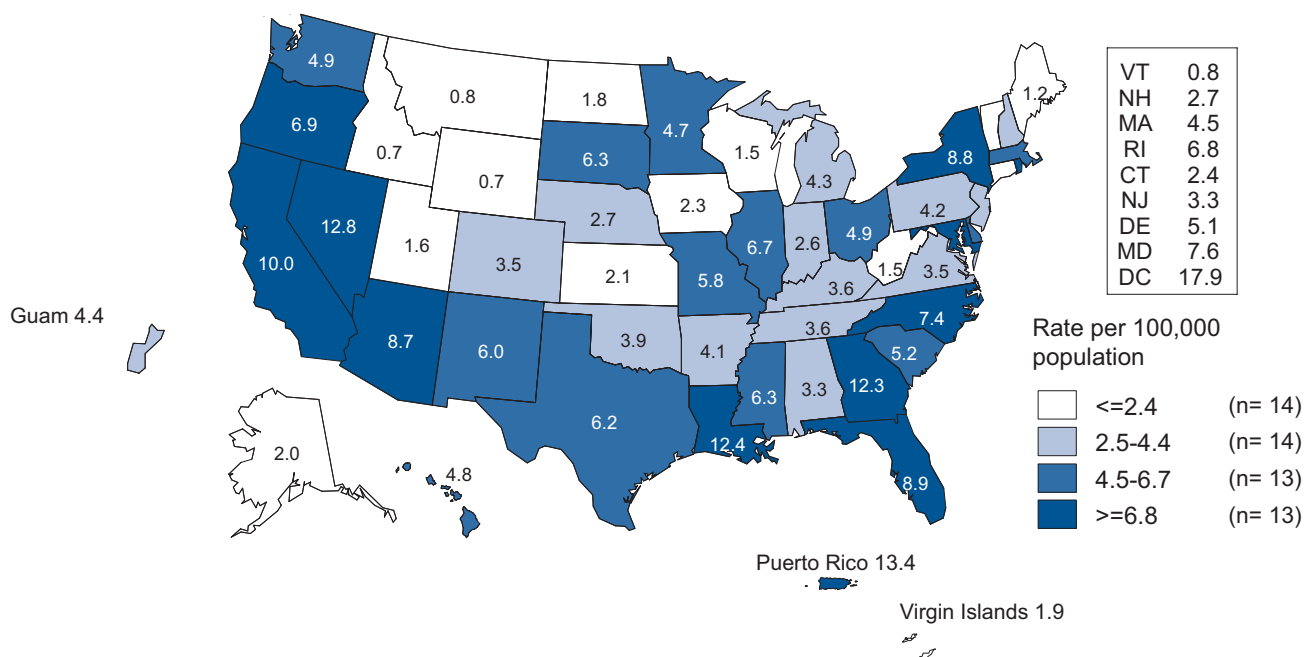
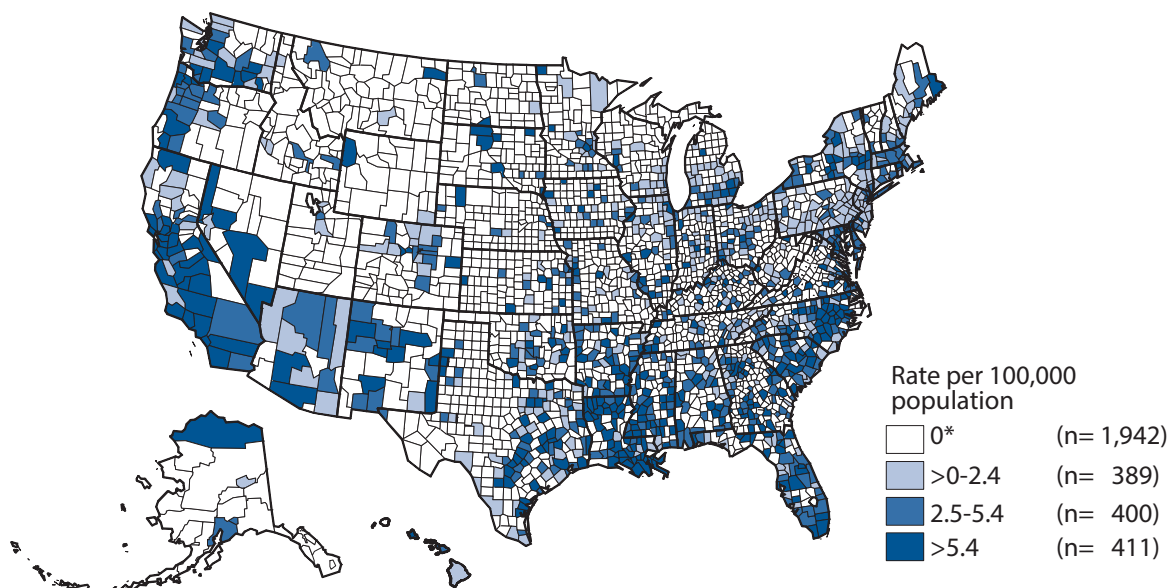


Figure 35. Primary and Secondary Syphilis — Rates of Reported Cases by State, United States and Outlying Areas, 2014



NOTE: The total rate of primary and secondary syphilis for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 6.4 per 100,000 population.

Figure 36. Primary and Secondary Syphilis — Rates of Reported Cases by County, United States, 2014



* In 2014, 1,942 (61.8%) of 3,142 counties in the United States reported no cases of primary and secondary syphilis.

Figure 37. Primary and Secondary Syphilis — Rates of Reported Cases by Age and Sex, United States, 2014

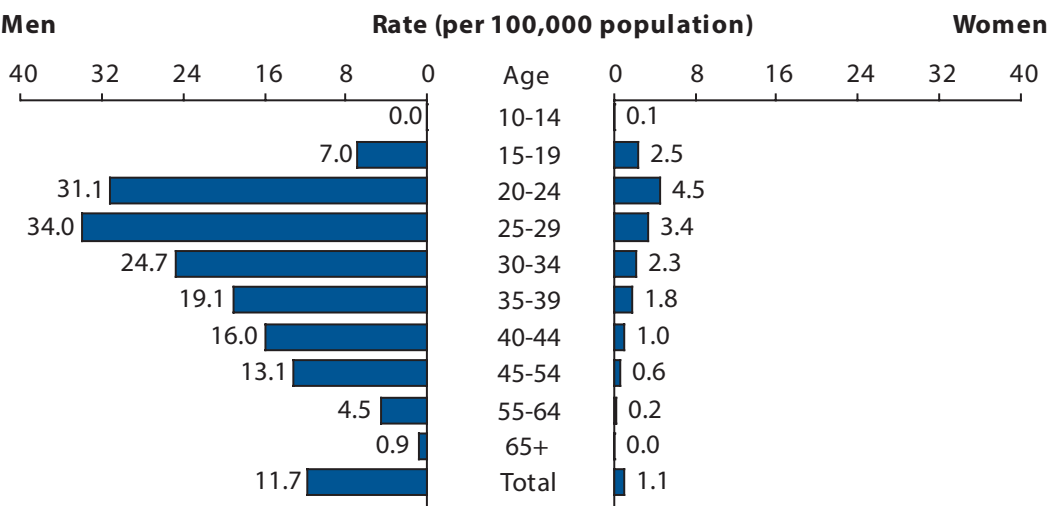


Figure 38. Primary and Secondary Syphilis — Rates of Reported Cases Among Women Aged 15–44 Years by Age, United States, 2005–2014

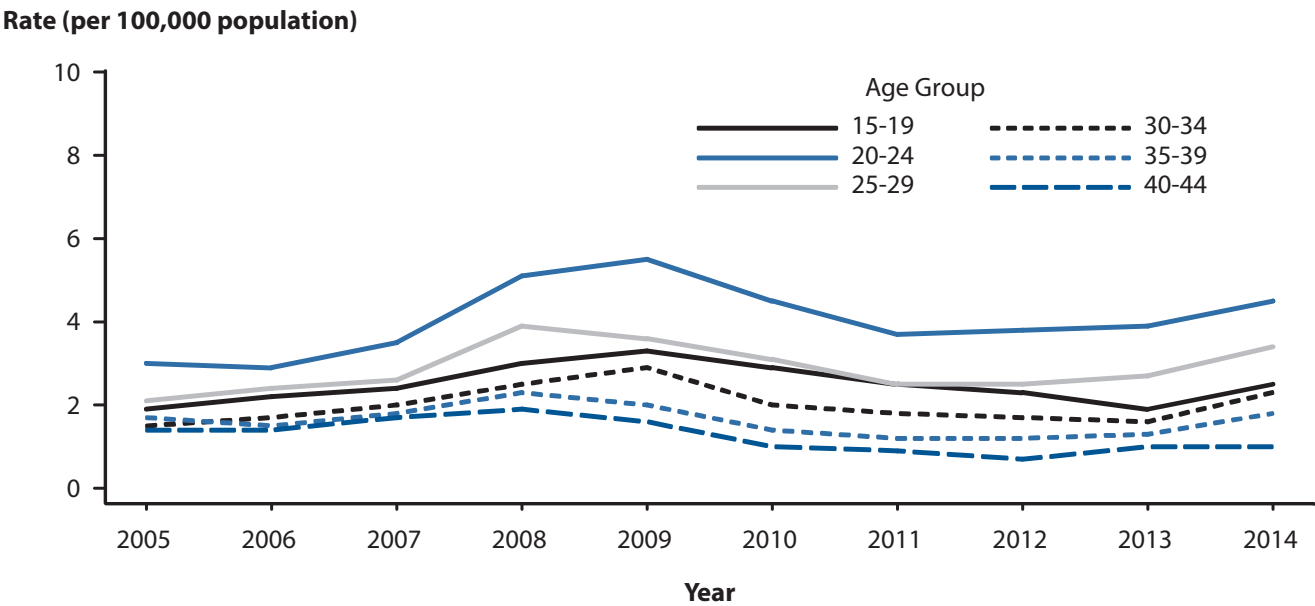


Figure 39. Primary and Secondary Syphilis — Rates of Reported Cases Among Men Aged 15–44 Years by Age, United States, 2005–2014

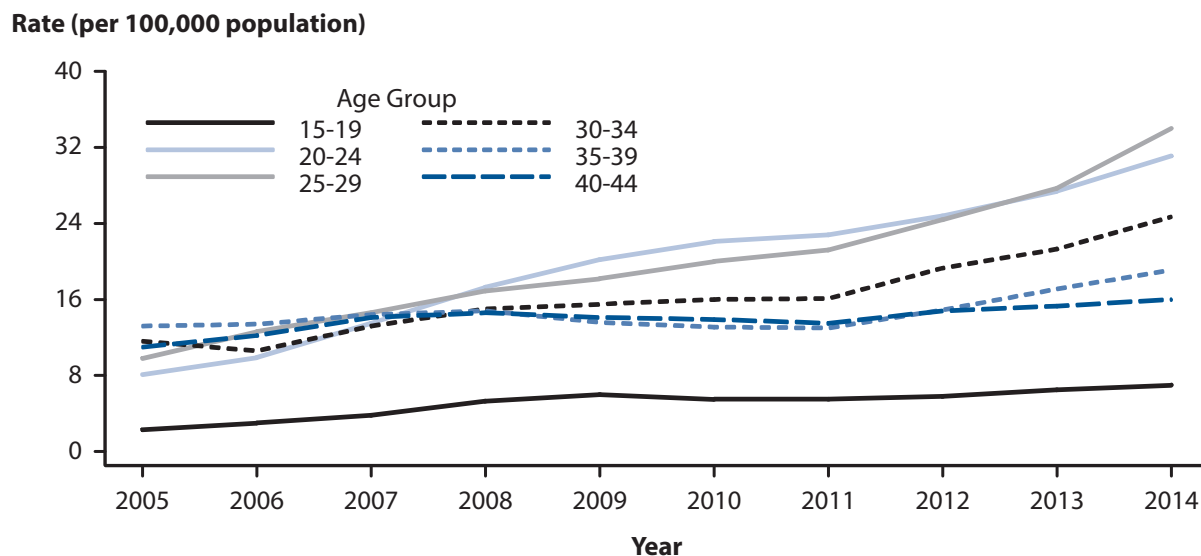
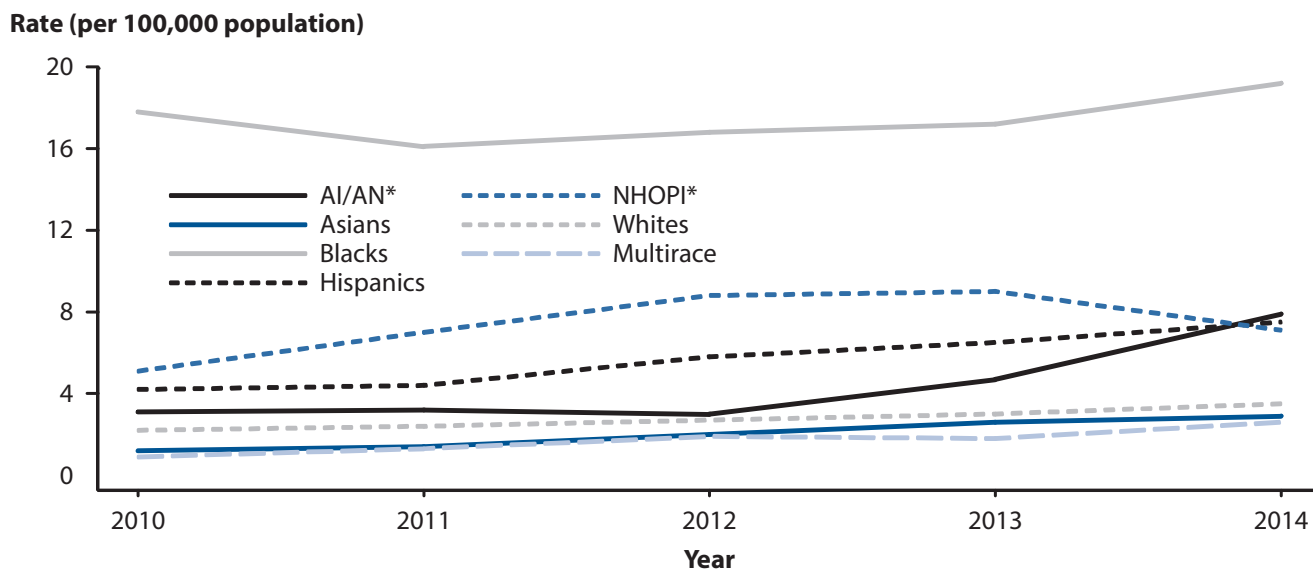


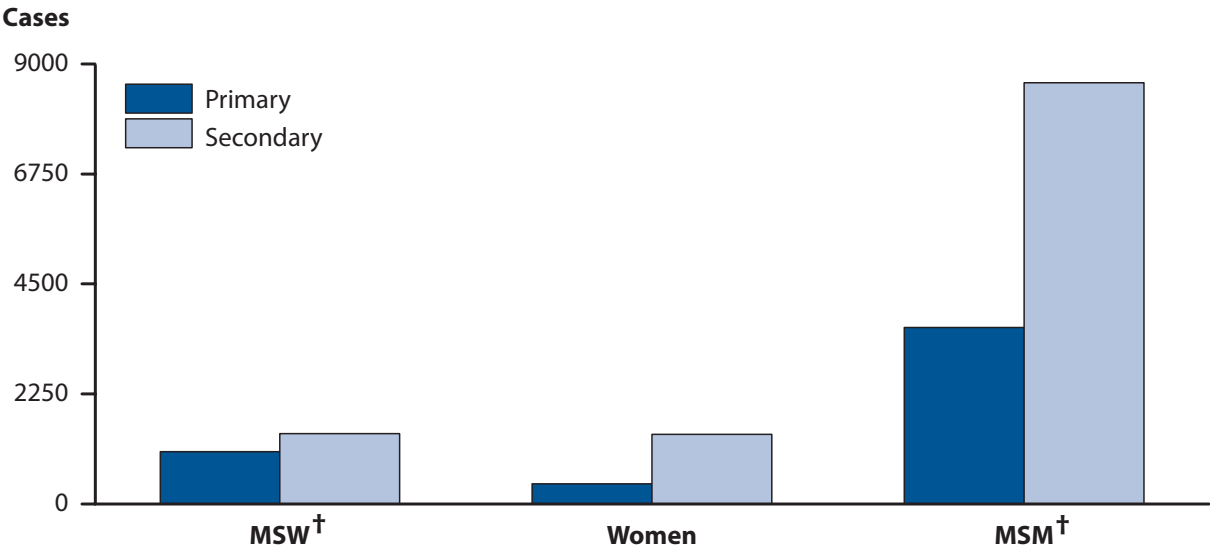
Figure 40. Primary and Secondary Syphilis — Rates of Reported Cases by Race/Ethnicity, United States, 2010–2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

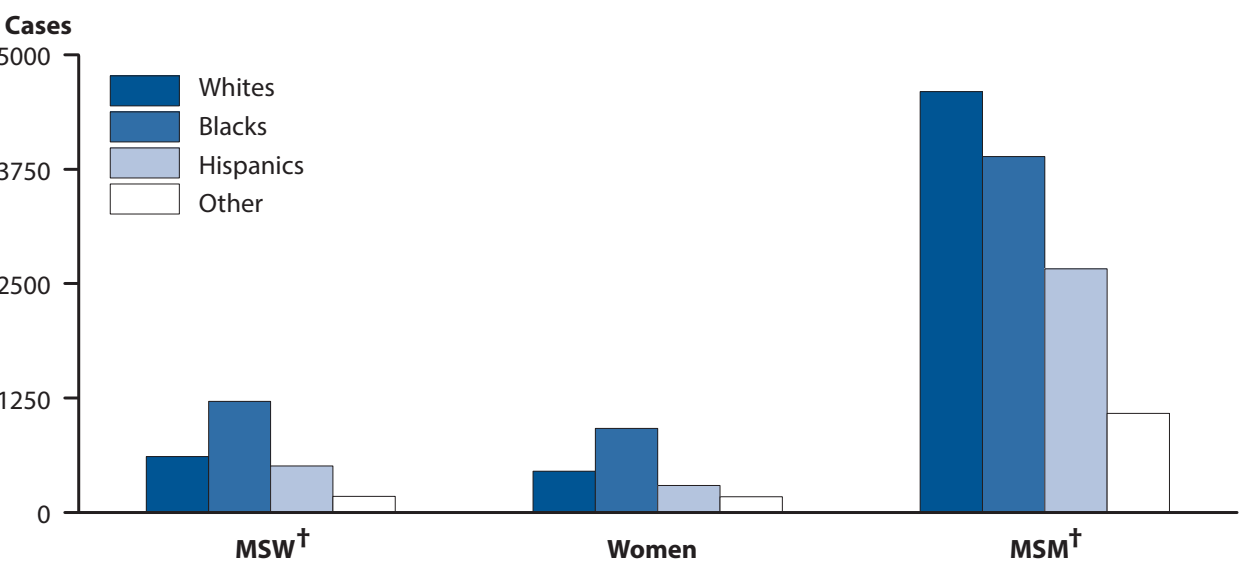
NOTE: Includes 44 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

Figure 41. Primary and Secondary Syphilis — Reported Cases* by Stage, Sex, and Sexual Behavior, 2014



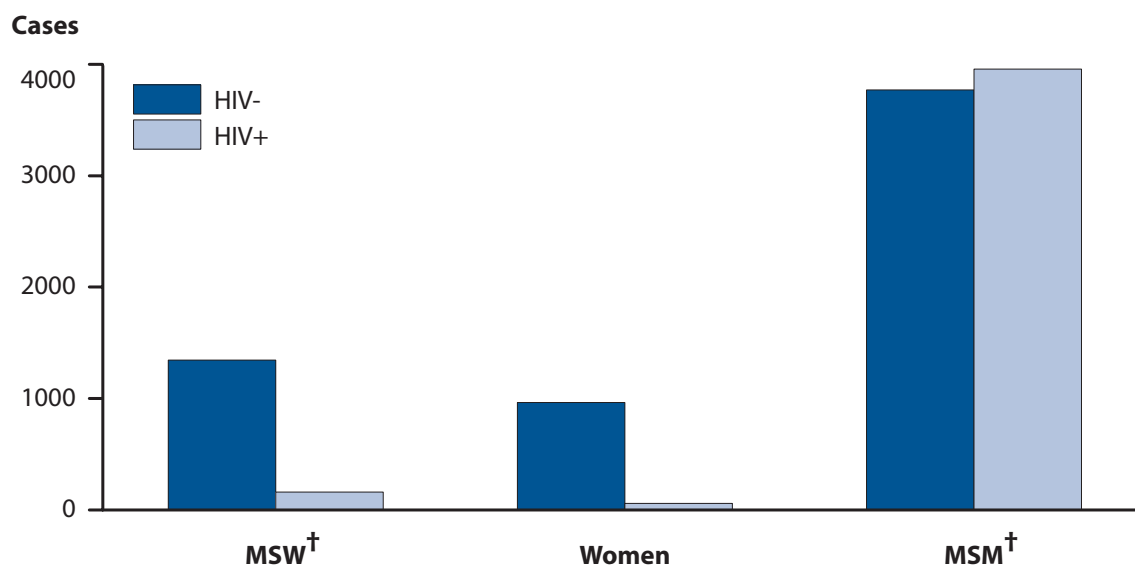
* Of the reported male cases of primary and secondary syphilis, 18.8% were missing sex of sex partner information.
† MSW = men who have sex with women only; MSM = men who have sex with men.

Figure 42. Primary and Secondary Syphilis — Reported Cases* by Sex, Sexual Behavior, and Race/Ethnicity, United States, 2014



* Of the reported male cases of primary and secondary syphilis, 18.8% were missing sex of sex partner information; 3.3% of reported male cases with sex of sex partner data were missing race/ethnicity data.
† MSW = men who have sex with women only; MSM = men who have sex with men.

Figure 43. Primary and Secondary Syphilis — Reported Cases by Sex, Sexual Behavior, and HIV Status (Positive or Negative), 26 Areas*, 2014



* 26 states reported both sex of sex partner and HIV status for $\geq 70\%$ of reported cases of primary and secondary syphilis during 2014.

[†] MSW = men who have sex with women only; MSM = men who have sex with men.

Figure 44. Primary and Secondary Syphilis — Reported Cases by Reporting Source and Sex, United States, 2005–2014

Cases (in thousands)

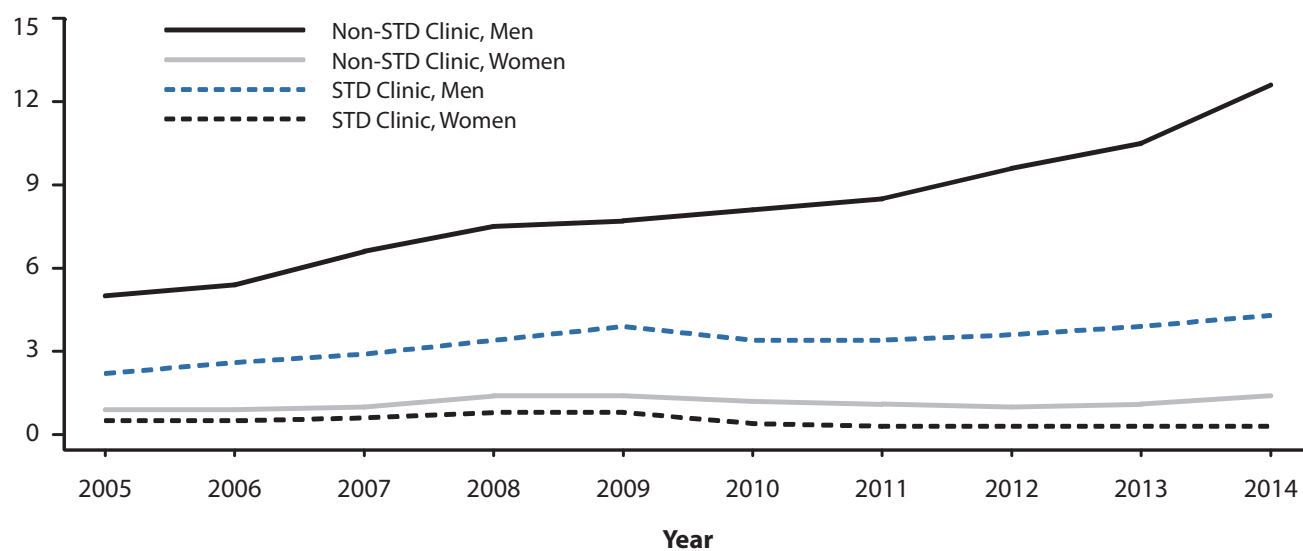
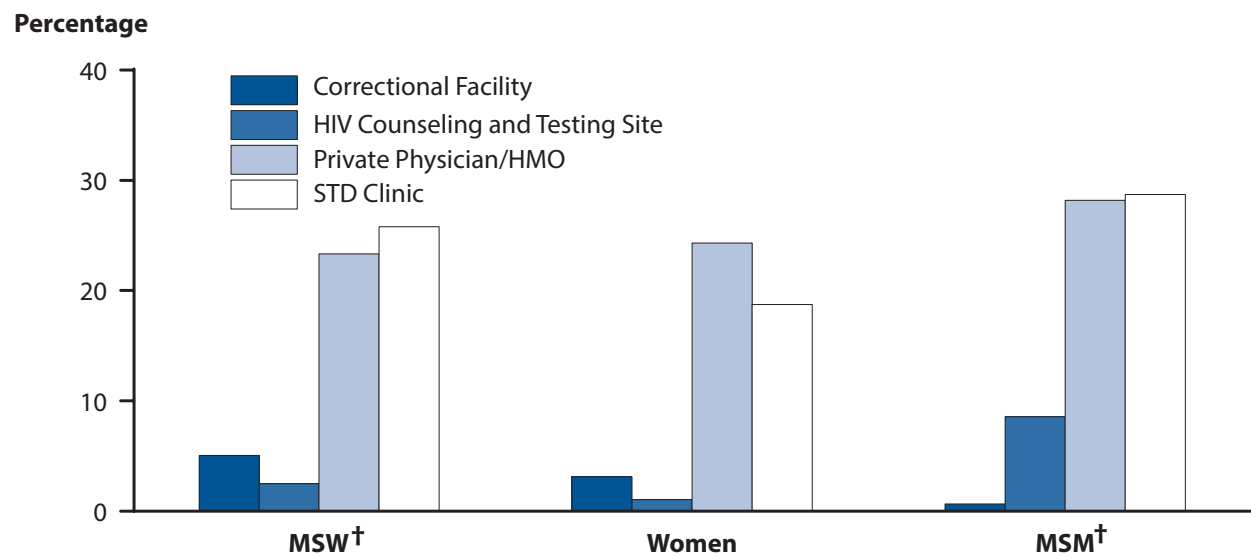
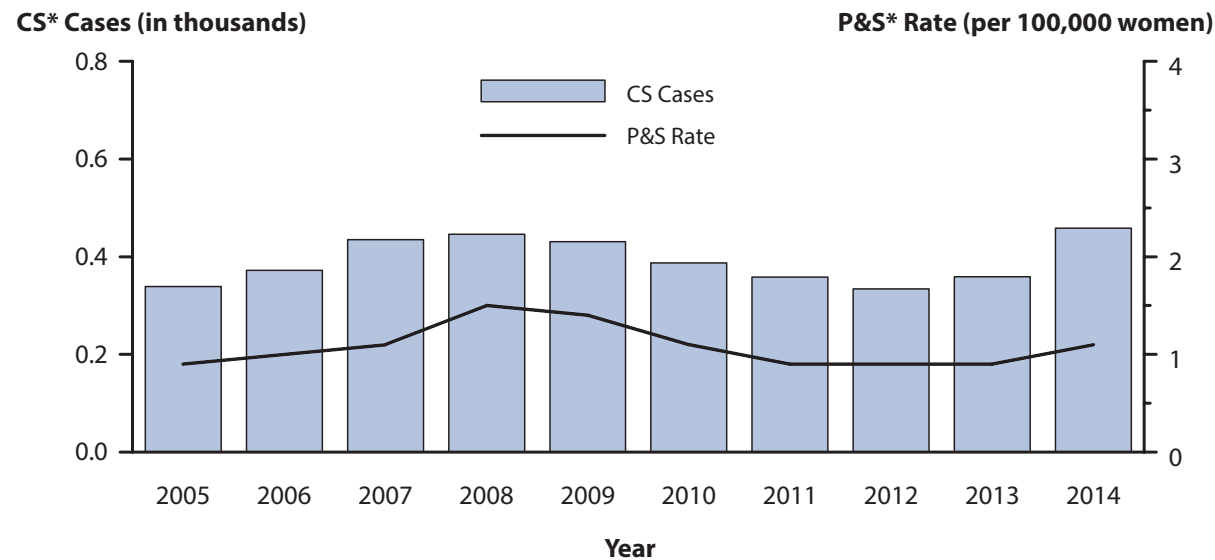


Figure 45. Primary and Secondary Syphilis — Percentage of Reported Cases* by Sex, Sexual Behavior, and Selected Reporting Sources, 2014



* Of all primary and secondary syphilis cases, 6.7% had a missing or unknown reporting source. Among all cases with a known reporting source the reporting source categories presented represent 62.0% of cases; 38.0% were reported from sources other than those shown.
† HMO = health maintenance organization; MSM = men who have sex with men; MSW = men who have sex with women only.

Figure 46. Congenital Syphilis — Reported Cases by Year of Birth and Rates of Primary and Secondary Syphilis Among Women, United States, 2005–2014



*CS = congenital syphilis; P&S = primary and secondary syphilis.

Other Sexually Transmitted Diseases

Chancroid

Chancroid is caused by infection with the bacterium *Haemophilus ducreyi*. Clinical manifestations include genital ulcers and inguinal lymphadenopathy or buboes.¹ Reported cases of chancroid declined steadily between 1987 and 2001. Since then, the number of reported cases has fluctuated somewhat, while still appearing to decline overall (Figure 47, Table 1). In 2014, a total of 6 cases of chancroid were reported in the United States. Only 3 states reported one or more cases of chancroid in 2014 (Table 44).

Although the overall decline in reported chancroid cases most likely reflects a decline in the incidence of this disease, these data should be interpreted with caution because *Haemophilus ducreyi*, the causative organism of chancroid, is difficult to culture; as a result, this condition may be underdiagnosed.^{2,3}

Human Papillomavirus

Human papillomavirus (HPV) is the most common sexually transmitted infection in the United States.⁴ Over 40 distinct types can infect the genital tract;⁵ about 90% of infections are asymptomatic and resolve spontaneously within two years.⁶ However, persistent infection with some HPV types can cause cancer and genital warts. HPV types 16 and 18 account for approximately 70% of cervical cancers worldwide,^{7,8} while HPV 6 and 11 are responsible for approximately 90% of genital warts.^{9,10}

A quadrivalent HPV vaccine that protects against HPV types 6, 11, 16 and 18 has been licensed in the United States for use in females since June 2006,¹¹ and in males since October 2009.¹² In October 2009, a bivalent HPV vaccine that protects against HPV types 16 and 18 was licensed for use in females.¹³ Either vaccine is recommended for routine use in females aged 11 or 12 years and in females who have not been vaccinated previously through age 26 years.¹¹ The quadrivalent vaccine is recommended for routine use in males aged 11 or 12 years and is recommended through age 21 years for males who have not been vaccinated previously.¹¹ Quadrivalent vaccination of gay, bisexual, and other men who have sex with men (collectively referred to as MSM) through age 26 is recommended; other males aged 22–26 years may also be vaccinated.¹¹ Vaccination is recommended through age 26 years for immunocompromised persons (including those infected with HIV) who have not been vaccinated previously.¹¹ In December 2014, a 9-valent

vaccine that protects against the HPV types included in the quadrivalent vaccine, as well as five additional cancer causing types (HPV 31, 33, 45, 52, and 58), was licensed for use in the United States.¹⁴

HPV vaccine uptake in the United States remains lower than the Healthy People 2020 goal of 80% coverage.¹⁵ In 2014, a national survey found that 60% of girls aged 13–17 years had received at least 1 dose of the HPV vaccine, and 40% had received all 3 doses in the series.¹⁶ HPV vaccine uptake is lower among boys; 42% aged 13–17 years received at least 1 dose, but only 22% received all 3 doses.¹⁶

National population-based data were obtained from the National Health and Nutrition Examination Survey (NHANES; see Section A2.4 in the Appendix for more information) to examine the prevalence of HPV vaccine types in the civilian, non-institutionalized female population during 2003–2006. HPV detection and typing were performed on self-collected cervicovaginal swab samples using the Research Use Only Linear Array genotyping assay (Roche Diagnostics). In the pre-vaccine era (2003–2006), the overall prevalence of any HPV was 42.5% (95% Confidence Interval [CI]: 40.3–44.7) among females aged 14–59 years.¹⁷ Prevalence varied significantly by age, peaking in young women 20–24 years of age (Figure 48).

Despite low vaccine coverage in the United States, prevalence of quadrivalent HPV vaccine types 6, 11, 16, and/or 18 in cervicovaginal specimens decreased from 11.5% (95% CI: 9.2–14.4) in the pre-vaccine era (2003–2006) to 5.1% (95% CI: 3.8–6.6) in the vaccine era (2007–2010) among females aged 14–19 years, the age group most likely to benefit from HPV vaccination (Figure 49).¹⁸ Among other age groups, vaccine-type HPV prevalence did not differ significantly between the two time periods.

Data from the National Disease and Therapeutic Index (NDTI; see Section A2.5 in the Appendix for more information) suggest that cases of genital warts (Figure 50, Table 45), as measured by initial visits to physicians' offices, may have increased during the late 1990s through 2011. Although the number of cases appears to have decreased in 2012 and 2013, compared to 2011, more years of data are needed to discern whether genital warts are declining, particularly since 2013 cases exceed those reported in 2012. The 2014 NDTI data were not obtained in time to include them in this report.

Prevalence of genital warts in a large United States cohort of individuals with private health insurance significantly declined in 2007 through 2010 among girls aged 15–19 years.¹⁹ Among women aged 20–24 years, genital wart prevalence, which had been increasing from 2003 through 2007, was stable from 2007 to 2009 and then decreased in 2010. Prevalence in women aged 25–29 increased through 2009, but decreases in genital warts were also observed for this group in 2010 (Figure 51).¹⁹ These declines are what would be expected several years after initiating routine HPV vaccination for girls aged 11 to 12 years, with catch-up vaccination through age 26 years. Although genital wart prevalence in women aged 30–34 and 35–39 years did not continue to increase between 2009 and 2010, more years of data are needed to interpret these observations, as well as the observed decline in prevalence in 2010 for men aged 20–24 years. The NHANES data for 1999–2004 indicated that 5.6% (95% CI: 4.9–6.4) of sexually active adults aged 18–59 years self-reported a history of a genital wart diagnosis.²⁰

For data reported in Figure 52, enhanced behavioral and demographic information on patients who presented for care in 2014 in the 6 jurisdictions that contributed data for all of 2014 to the STD Surveillance Network (SSuN) was used. See Section A2.2 in the Appendix for more information about the SSuN. Genital warts were identified by provider diagnosis or by documentation from the physical examination. MSM and men who have sex with women only (MSW) were defined by self-report or by sex of reported sex partners. The prevalence of genital warts in 2014 is presented separately for MSM, MSW, and women by SSuN jurisdiction in the figure. Among women the median prevalence of genital warts was 1.1% (range 0.8 to 2.3) across all jurisdictions, compared to 4.0% (range 2.9 to 4.7) for MSM and 4.9% (range 3.3 to 5.5) for MSW.

Pelvic Inflammatory Disease

For data on pelvic inflammatory disease, see Special Focus Profiles, STDs in Women and Infants.

Herpes Simplex Virus

Herpes simplex virus (HSV) is among the most prevalent sexually transmitted infections;^{4,21} although most infections are subclinical,²² clinical manifestations are characterized by recurrent, painful genital and/or anal lesions.²³ Most genital herpes infections in the United States are caused by HSV-2; however genital HSV-1 infections are increasing among college students and other populations.^{24,25} Case reporting data for genital HSV are not available. Data on initial visits to physicians' offices for this condition are available from the

NDTI (Figure 53, Table 45), however, the 2014 NDTI data were not obtained in time to include them in this report.

National trend data on the gender-specific seroprevalence of HSV-2 among those aged 14–49 years from the NHANES were compared across survey years 1988–1994, 1999–2002, 2003–2006, and 2007–2010 (Figure 54). Overall, HSV-2 seroprevalence decreased between 1988–1994 and 2007–2010, from 21.2% to 15.5%.²⁶ Among non-Hispanic white females, HSV-2 seroprevalence decreased from 19.5% (1988–1994) to 15.3% (2007–2010; $P<0.001$); HSV-2 seroprevalence remained stable among non-Hispanic black or African American (hereinafter referred to as black) females, from 52.5% (1988–1994) to 49.9% (2007–2010; $P=0.1$).²⁶ These data, along with data from the NHANES survey years 1976–1980,²⁷ indicate that blacks had higher seroprevalence than whites for each survey period and age group.

Although HSV-2 seroprevalence is decreasing, most persons with HSV-2 have not received a diagnosis. The overall percentage of HSV-2 seropositive NHANES participants who reported never being told by a doctor or health care professional that they had genital herpes did not change significantly between 1988–1994 and 2007–2010, and remained high (90.7% and 87.4%, respectively).²⁶ However, an overall increase in the number of visits for genital herpes over time, as suggested by the NDTI data, may indicate increased use of serologic testing and increased recognition of infection.

Neonatal HSV infections, although relatively rare, cause significant morbidity and mortality.²⁸ Most neonatal HSV infections result from vertical transmission from mother to neonate.²⁹ An examination of inpatient records of infants aged 60 days or younger at admission using the Healthcare Cost and Utilization Project Kid's Inpatient Database showed an overall incidence of 9.6 cases per 100,000 live births in 2006.³⁰ Rates did not vary significantly by region or race/ethnicity; however, prevalence was significantly higher among cases for which the expected primary payer was Medicaid (15.1 per 100,000; 95% CI: 12.1–18.1) compared with private insurance or managed health care (5.4 per 100,000; 95% CI: 4.0–6.8).

Trichomoniasis

Trichomonas vaginalis infection is a common sexually transmitted protozoal infection associated with adverse health outcomes such as preterm birth and symptomatic vaginitis.^{4,31,32} Trend data for this infection are limited to estimates of initial physician office visits from the NDTI (Figure 55, Table 45); however, the 2014 NDTI data were

not obtained in time to include them in this report. The NHANES data from 2001–2004 indicated an overall trichomoniasis prevalence of 3.1% (95% CI: 2.3–4.3), with the highest prevalence observed among blacks (13.3%; 95% CI: 10.0–17.7).³²

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Figure 47. Chancroid — Reported Cases by Year, United States, 1981–2014

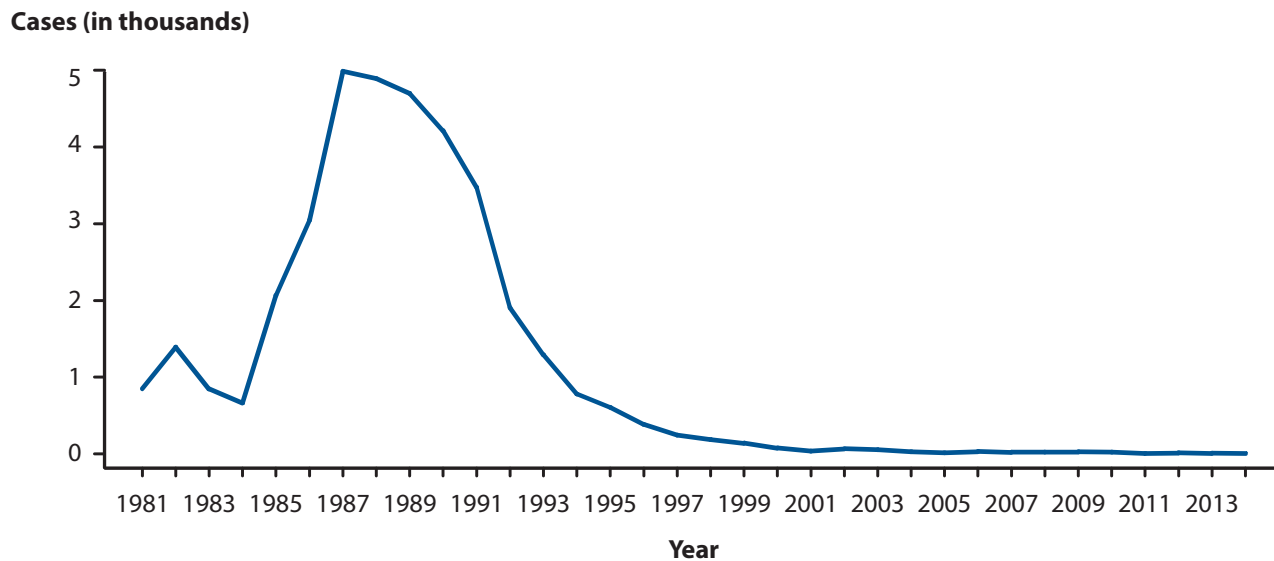
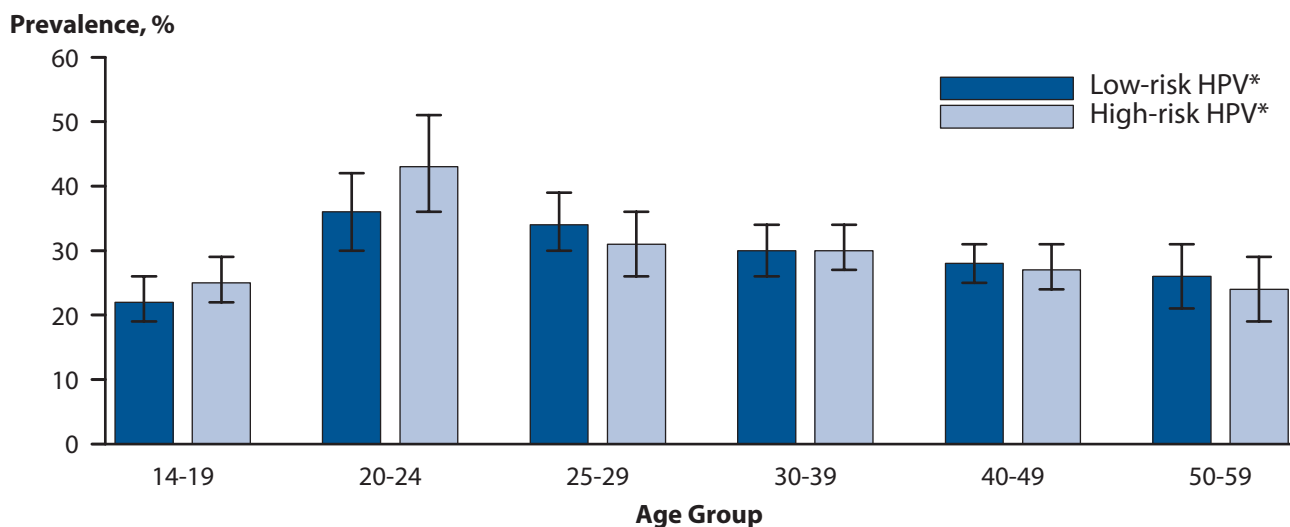


Figure 48. Human Papillomavirus — Cervicovaginal Prevalence of High-Risk and Low-Risk Types Among Women Aged 14–59 Years by Age Group, National Health and Nutrition Examination Survey, 2003–2006

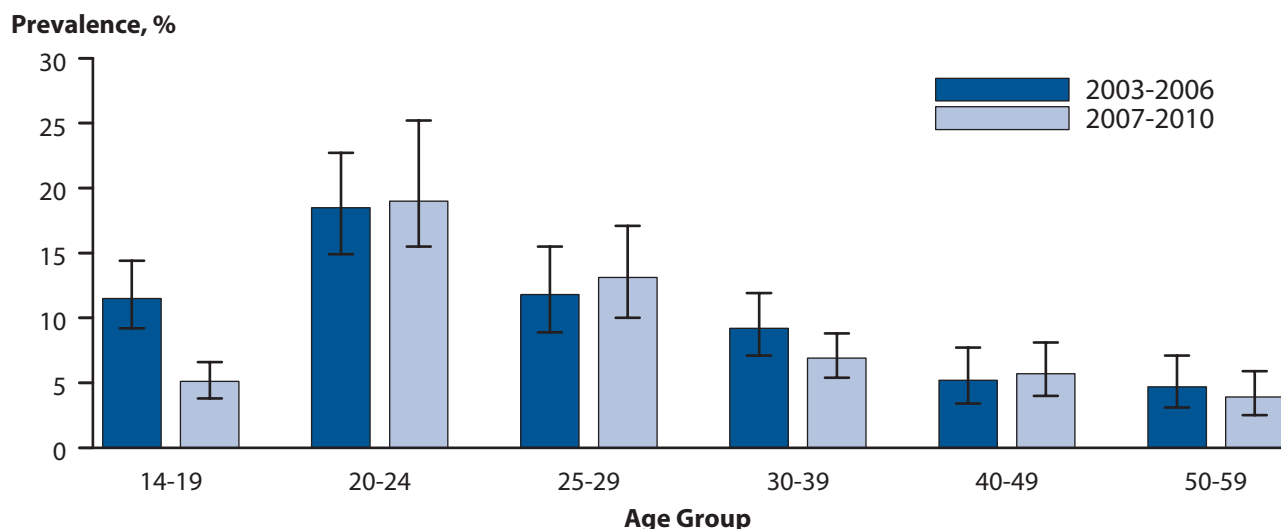


* HPV = human papillomavirus.

NOTE: Error bars indicate 95% confidence interval. Both high-risk and low-risk HPV types were detected in some females.

SOURCE: Hariri S, Unger ER, Sternberg M, Dunne EF, Swan D, Patel S, et al. Prevalence of genital human papillomavirus among females in the United States, the National Health and Nutrition Examination Survey, 2003–2006. *J Infect Dis* 2011;204(4):566–73.

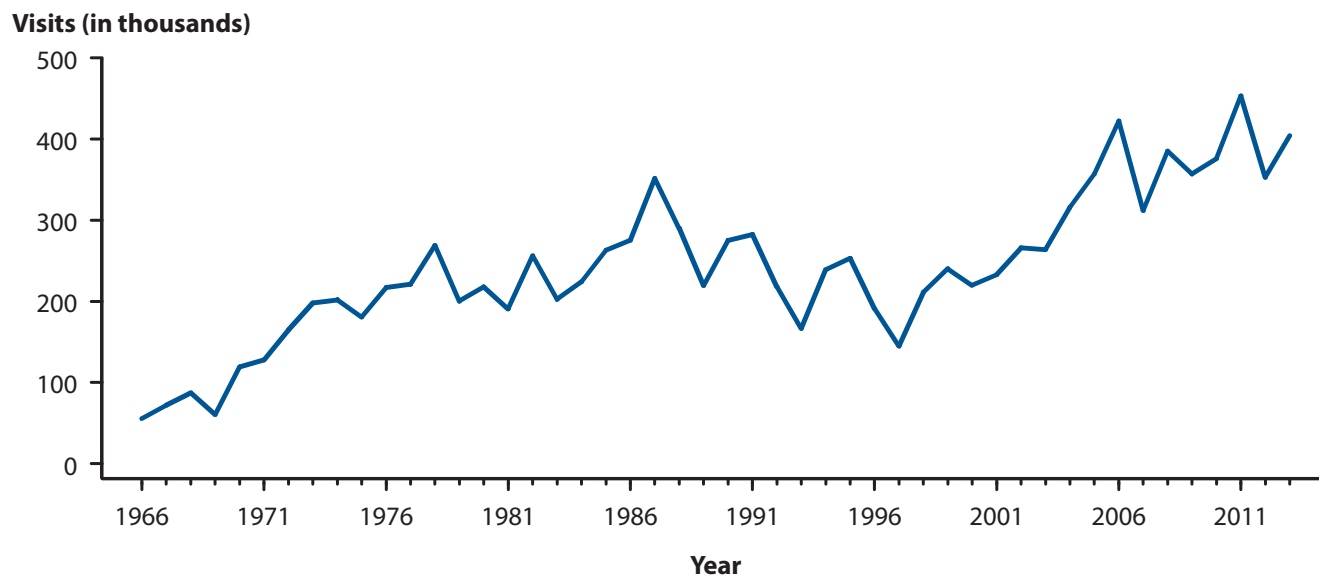
Figure 49. Human Papillomavirus — Cervicovaginal Prevalence of Types 6, 11, 16 and 18 Among Women Aged 14–59 Years by Age Group and Time Period, National Health and Nutrition Examination Survey, 2003–2006 and 2007–2010



NOTE: Error bars indicate 95% confidence interval.

SOURCE: Markowitz LE, Hariri S, Lin C, Dunne EF, Steinau M, McQuillan G, et al. Reduction in human papillomavirus (HPV) prevalence among young women following HPV vaccine introduction in the United States, National Health and Nutrition Examination Surveys, 2003–2010. *J Infect Dis* 2013;208(3):385–93.

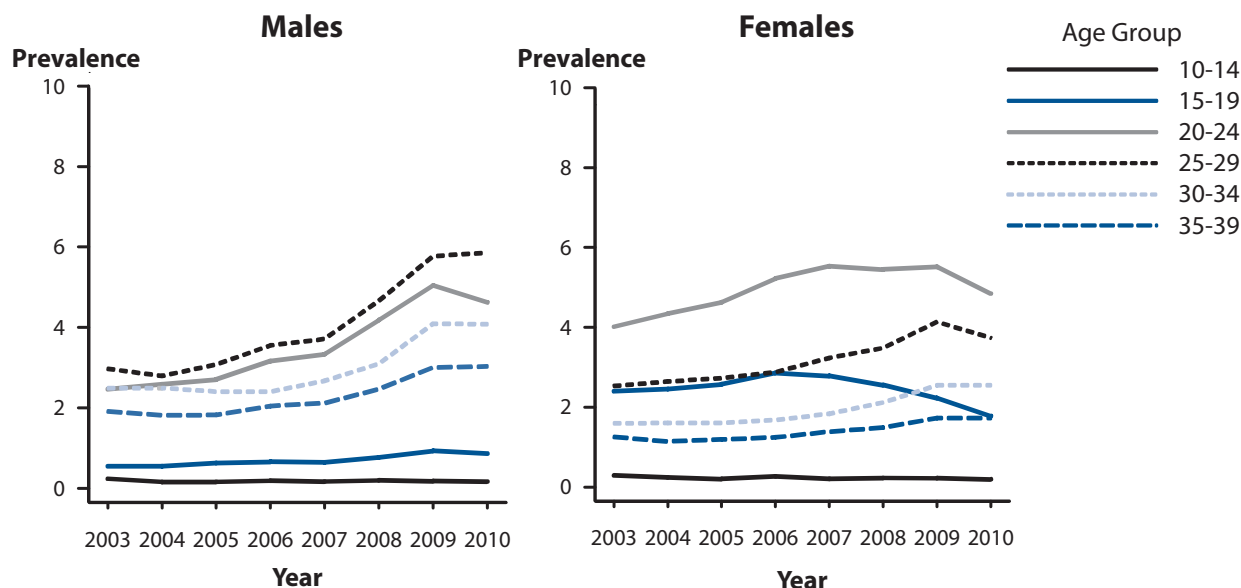
Figure 50. Genital Warts — Initial Visits to Physicians’ Offices, United States, 1966–2013



NOTE: The relative standard errors for genital warts estimates of more than 100,000 range from 18% to 23%. See Section A2.5 in the Appendix and Table 45.

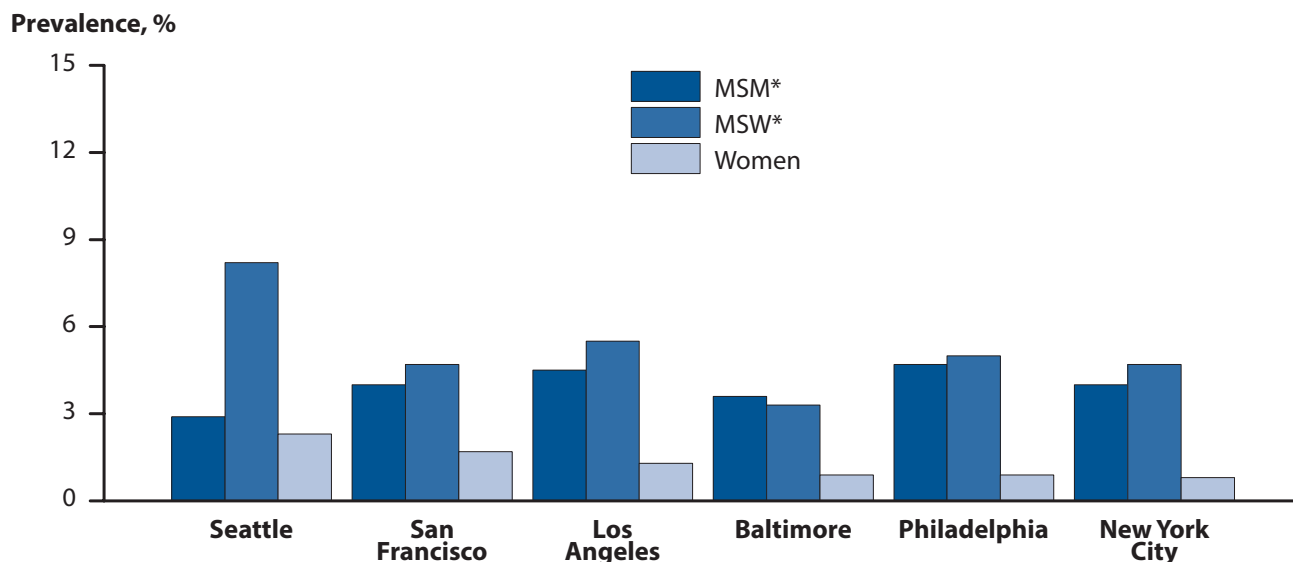
SOURCE: National Disease and Therapeutic Index, IMS Health, Integrated Promotional Services™. IMS Health Report, 1966–2013. The 2014 data were not obtained in time to include them in this report.

Figure 51. Genital Warts — Prevalence per 1000 Person-Years Among Participants in Private Health Plans Aged 10–39 Years by Sex, Age Group, and Year, 2003–2010



SOURCE: Flagg EW, Schwartz R, Weinstock H. Prevalence of anogenital warts among participants in private health plans in the United States, 2003–2010: potential impact of human papillomavirus vaccination. *Am J Public Health* 2013;103(8):1428–35.

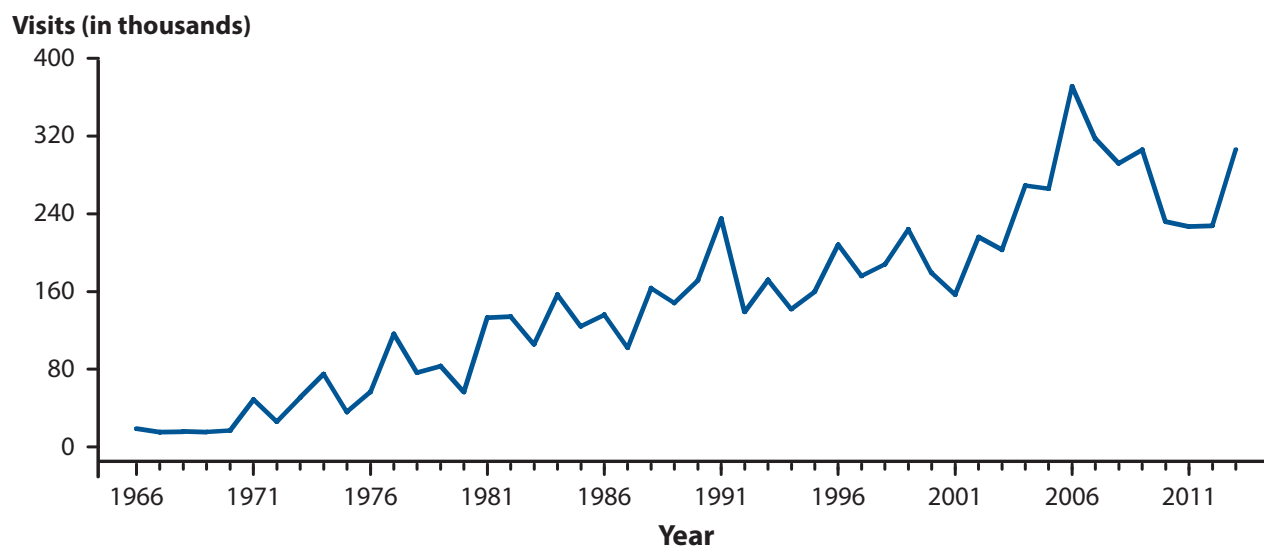
Figure 52. Genital Warts — Prevalence among STD Clinic Patients by Sex, Sex of Partners, and Site, STD Surveillance Network (SSuN), 2014



* MSM = men who have sex with men; MSW = men who have sex with women only.

NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) which contributed data for all of 2014.

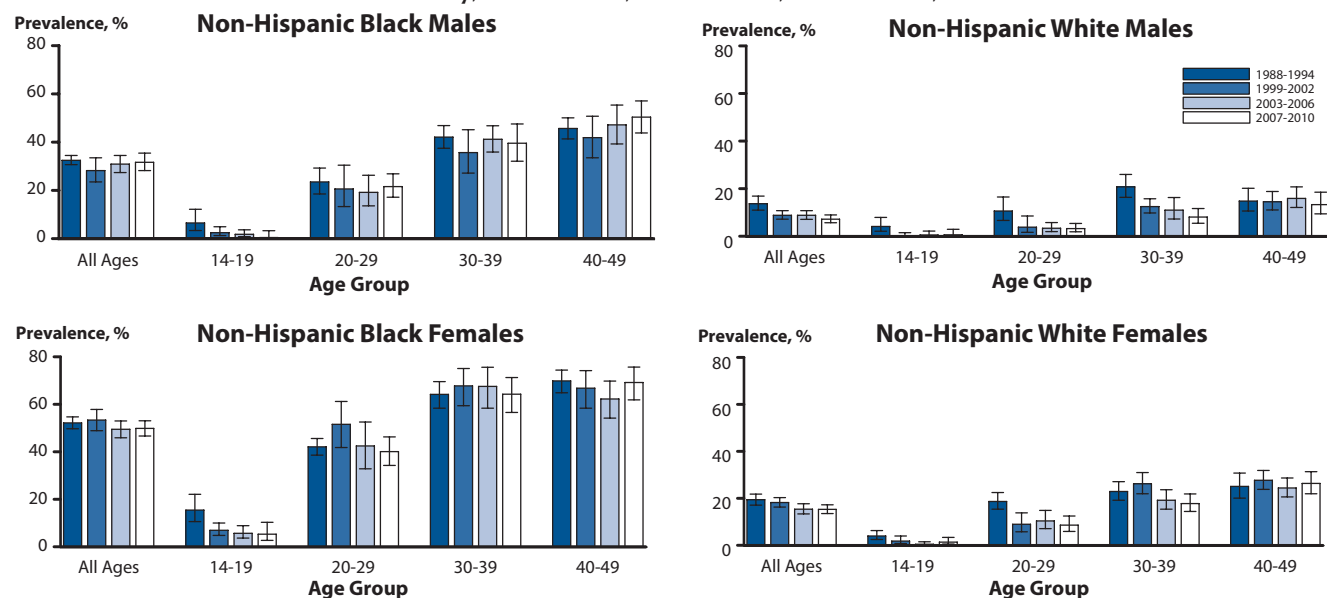
Figure 53. Genital Herpes — Initial Visits to Physicians' Offices, United States, 1966–2013



NOTE: The relative standard errors for genital herpes estimates of more than 100,000 range from 19% to 23%. See Section A2.5 in the Appendix and Table 45.

SOURCE: National Disease and Therapeutic Index, IMS Health, Integrated Promotional Services™. IMS Health Report, 1966–2013. The 2014 data were not obtained in time to include them in this report.

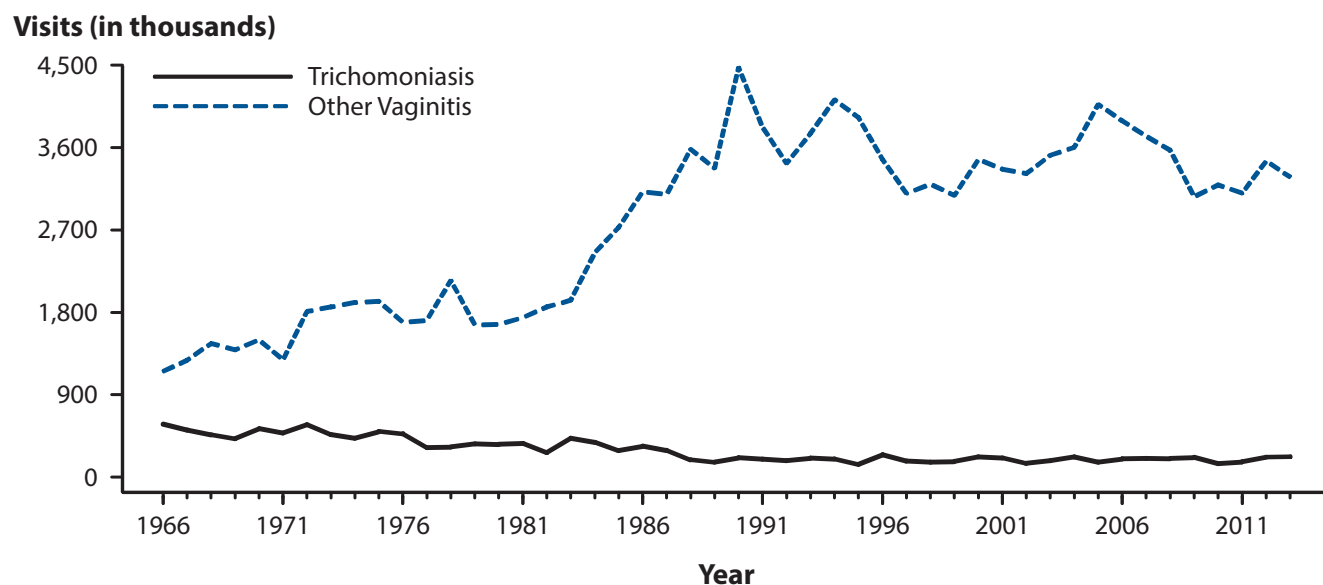
Figure 54. Herpes Simplex Virus Type 2 — Seroprevalence Among Non-Hispanic Whites and Non-Hispanic Blacks by Sex and Age Group, National Health and Nutrition Examination Survey, 1988–1994, 1999–2002, 2003–2006, and 2007–2010



NOTE: Error bars indicate 95% confidence interval.

SOURCE: Fanfair RN, Zaidi A, Taylor LD, Xu F, Gottlieb S, Markowitz L. Trends in seroprevalence of herpes simplex virus type 2 among non-Hispanic blacks and non-Hispanic whites aged 14 to 49 years — United States, 1988 to 2010. Sex Transm Dis 2013;40(11):860–4.

Figure 55. Trichomoniasis and Other Vaginal Infections Among Women — Initial Visits to Physicians' Offices, United States, 1966–2013



NOTE: The relative standard errors for trichomoniasis estimates range from 16% to 21% and for other vaginitis estimates range from 8% to 13%. See Section A2.5 in the Appendix and Table 45.

SOURCE: National Disease and Therapeutic Index, IMS Health, Integrated Promotional Services™, IMS Health Report, 1966–2013. The 2014 data were not obtained in time to include them in this report.

SPECIAL FOCUS PROFILES

SPECIAL FOCUS PROFILES

Special Focus Profiles

The Special Focus Profiles highlight trends and distribution of STDs in populations of particular interest to STD and HIV prevention programs in state and local health departments: women and infants, adolescents and young adults, racial and ethnic minority groups, and gay and bisexual men and other men who have sex with men (MSM). These populations are most vulnerable to STDs and their consequences and often lack adequate access to healthcare services. In 2013, in the U.S., age was strongly associated with having health insurance. Older adults (65 years and older) and children (19 years and under) were most likely to have health insurance. Working adults (19 years to 64 years) had higher uninsured rates. The rates of non-insured for whites, blacks, and Hispanics were: 9.8%, 15.9%, and 24.3% respectively.¹ The Patient Protection and Affordable Care Act (ACA) aims to increase access to sexual and reproductive health services through reforms based on the U.S. Preventive Services Task Force recommendations that include: chlamydia and gonorrhea screening (for sexually active women under 25 and all higher risk women), HIV screening (everyone 15–65 years old, pregnant, and higher risk), STD counseling (for all sexually active adolescents and higher-risk adults), and syphilis screening (for pregnant women and adults at higher risk).² However, although health insurance coverage has been expanded for most groups, including both men and women, and for most race and ethnic groups, evidence suggests that disparities in health insurance coverage and access to STD services remain.³⁻⁴

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² Oglesby, WH. Perceptions of and preferences for federally-funded family planning clinics. *Reproductive Health* 2014; 11(50)1-9. HYPERLINK <http://www.reproductive-health-journal.com/content/11/1/50>

³ O'Hara, B and Brault, MW. The disparate impact of the ACA-dependent expansion across population subgroups. *Health Serv Res.* 2013 Oct;48(5):1581-92.

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STDs in Women and Infants

Public Health Impact

Women and infants are at significant risk for long-term consequences of STDs. A woman's relationship status with her male partner, in particular, has been identified as an important predictor of her sexual health.¹ In addition to social factors such as poverty and lack of access to quality STD services, a woman may be unable to negotiate safer sexual practices, such as condom use, which can significantly affect her sexual and reproductive health, as well as the health of her unborn baby.^{2,3}

As an example of how social factors can impact women's health, a perceived shortage of available men in a community can cause women to be more accepting of their partners' concurrent sexual relationships, and partner concurrency is a factor associated with increased risk for STDs.⁴ Because it may be her male partner's risk, rather than the woman's that increases a woman's risk for STDs, even a woman who has only one partner may be obliged to practice safer sex such as using condoms.⁵ A number of studies have found significant associations between condom use and socio-demographic characteristics, including age, income, education, and acculturation.⁶

Women infected with *C. trachomatis* or *N. gonorrhoeae* can develop pelvic inflammatory disease (PID), which, in turn, can lead to reproductive morbidity such as ectopic pregnancy and tubal factor infertility. An estimated 10%–20% of women with chlamydia or gonorrhea may develop PID if they do not receive adequate treatment.^{7,8} Among women with PID, tubal scarring can cause infertility in 8% of women, ectopic pregnancy in 9%, and chronic pelvic pain in 18%.⁹

About 80%–90% of chlamydial infections¹⁰ and up to 80% of gonococcal infections¹¹ in women are asymptomatic. These infections are detected primarily through screening. Because the symptoms associated with PID can be nonspecific, up to 85% of women with PID delay seeking medical care, thereby increasing the risk for infertility and ectopic pregnancy.¹² Data from two randomized controlled trials of chlamydia screening suggest that such screening programs reduce PID incidence.^{13,14}

Human papillomavirus (HPV) infections are highly prevalent in the United States, especially among young sexually active women. Although most HPV infections in women resolve within 2 years, they are a major concern because persistent infection with specific types of the virus can cause abnormal cervical cells to be noted on

a Papanicolaou (Pap) smear. These abnormal cells can progress to cervical cancer. Other types cause genital warts, low-grade Pap smear abnormalities, and, rarely, recurrent respiratory papillomatosis in infants born to infected mothers.¹⁵

Impact on Pregnancy Outcomes

Chlamydia and gonorrhea can result in adverse outcomes of pregnancy, including neonatal ophthalmia and, in the case of chlamydia, neonatal pneumonia. Although topical prophylaxis of infants at delivery is effective for prevention of gonococcal ophthalmia neonatorum, prevention of neonatal pneumonia requires prenatal detection and treatment.

Genital infections with herpes simplex virus (HSV) are extremely common, can cause painful outbreaks, and can have serious consequences for pregnant women and their infants.¹⁶

When a woman has a syphilis infection during pregnancy, she can transmit the infection to the fetus in utero. Transmission can result in fetal death or an infant born with physical and mental developmental disabilities. Most cases of congenital syphilis are easily preventable if women are screened for syphilis and treated early during prenatal care.¹⁷

Observations

Chlamydia — United States

Chlamydial infections in women are usually asymptomatic and screening is necessary to identify most infections.¹⁸ Routine chlamydia screening of sexually-active young women has been recommended by CDC since 1993.¹⁹ Rates of reported cases among women increased steadily from the early 1990s likely reflecting expanded screening coverage and use of more sensitive diagnostic tests (Figure 1). During 2011–2013, rates decreased from 643.4 to 619.0 cases per 100,000 females and then increased 1.3% to 627.2 per 100,000 in 2014 (Table 4).

Chlamydia rates are highest among young women, the population targeted for screening (Figure 5, Table 10). During 2013–2014, rates of reported chlamydia decreased 4.2% among females aged 15–19 years and increased 1.6% among females aged 20–24 years. Regionally, chlamydia case rates are highest among women in the South, with a

rate of 694.4 per 100,000 females in 2014 (Table 4). Rates of reported chlamydia exceeded gonorrhea rates among women in all regions (Figures A and B, Tables 4 and 15).

Gonorrhea — United States

Like chlamydia, gonorrhea is often asymptomatic in women. Thus, gonorrhea screening is an important strategy for the identification of gonorrhea among women. Large-scale screening programs for gonorrhea in women began in the 1970s. After an initial increase in cases detected through screening, rates of reported gonorrhea cases for both women and men declined steadily throughout the 1980s and early 1990s and then declined more gradually in the late 1990s and the 2000s (Figure 12). After reaching a 40-year low in 2009 (104.5 cases per 100,000 females), the gonorrhea rate for women increased slightly each year during 2009–2011, but then decreased each year during 2012–2014. In 2014, the gonorrhea rate among women decreased to 101.3 cases per 100,000 females (Figure 13, Table 15).

The gonorrhea rate among women was slightly higher than the rate among men during 2001–2012, but the rate among men was higher than the rate among women in 2013 and 2014 (Figure 13, Tables 15 and 16). Gonorrhea rates are highest among young women (Figure 17, Table 21). Among young women and adolescents, rates were highest in 2014 among 19-year old females (643.9 per 100,000 females) (Table 23).

Congenital Syphilis

Trends in congenital syphilis usually follow trends in primary and secondary syphilis (P&S) among women, with a lag of 1–2 years (Figure 46). The rate of reported P&S syphilis cases among women declined 95.4% (from 17.3 to 0.8 cases per 100,000 females) during 1990–2004 (Figure 33). Since 2004, the rate has fluctuated. It increased during 2005–2008 to 1.5 cases per 100,000 females in 2008, decreased during 2009–2011 to 0.9 cases per 100,000 females in 2011, and plateaued at 0.9 cases per 100,000 females during 2012–2013. In 2014, the P&S syphilis rate among women increased to 1.1 cases per 100,000 females (Table 28). This represents a 22.2% increase relative to 2013.

Similarly, the reported rate of congenital syphilis cases declined by 92.4% during 1991–2005, from a peak of 107.6 cases per 100,000 live births in 1991 to 8.2 cases per 100,000 live births in 2005, but has fluctuated since 2005 (Table 1). The congenital syphilis rate increased during 2006–2008 to 10.5 cases per 100,000 live births in 2008, decreased during 2009–2012 to 8.4 cases per 100,000 live births in 2012, and subsequently increased each year in 2013 and 2014, to 11.6 cases per 100,000 live births in

2014. This increase in 2014 represents a 27.5% increase relative to 2013 and a 19.6% increase relative to 2010 (Table 42).

As in previous years, the highest rates of P&S syphilis among women and the highest rates of congenital syphilis were observed in the South (Figures C and D, Table 28 and 42). However, all regions experienced an increase in the rate of P&S syphilis among women and the rate of congenital syphilis during 2013–2014. The largest increases in the rate of P&S syphilis among women were seen in the West (50.0%), followed by the Midwest (28.5%), Northeast (25%), and South (7.1%). The largest increases in the rate of congenital syphilis were seen in the Northeast (74.1%), followed by the West (63.6%), the Midwest (32.8%), and the South (9.2%).

Although most cases of congenital syphilis occur among infants whose mothers have had some prenatal care, late or limited prenatal care has been associated with congenital syphilis. Failure of health care providers to adhere to maternal syphilis screening recommendations also contributes to the occurrence of congenital syphilis.²⁰

Pelvic Inflammatory Disease

Accurate estimates of PID and tubal factor infertility resulting from chlamydial and gonococcal infections are difficult to obtain, in part because definitive diagnoses of these conditions can be complex. Published data suggest overall declining rates of women diagnosed with PID in the United States in both hospital and ambulatory settings.^{21–23} The National Disease and Therapeutic Index (NDTI) provides estimates of initial visits to office-based, private physicians for PID (NDTI; see Section A2.5 in the Appendix for more information). NDTI estimated that from 2004–2013 the number of visits to such physicians for PID among women aged 15–44 decreased (39.8%) from 123,000 to 88,000 visits (Figure E). The 2014 NDTI data were not obtained in time to include them in this report. Several suggestions have been put forth as factors that could influence PID rates, including increases in chlamydia and gonorrhea screening coverage, more sensitive diagnostic technologies, and availability of single-dose therapies that increase adherence to treatment.^{22–24} While PID is declining nationally, it still causes an enormous amount of unnecessary and expensive morbidity.

Differences in PID diagnoses or treatment by race/ethnicity have been observed in earlier research.²¹ Using data from the National Survey of Family Growth, the overall proportion of sexually experienced women who have been treated for PID declined from 8.6% in 1995 to 5.7% in 2002 and leveled off to 5.0% in 2006–2010 (Figure F).²⁵ While this

pattern was observed across all racial/ethnic groups, the proportion who had received PID treatment was higher among non-Hispanic blacks than those among Hispanics or non-Hispanic whites. These disparities are consistent with the marked racial disparities observed for chlamydia and gonorrhea. However, because of the subjective methods by which PID is diagnosed, racial disparity data should be interpreted with caution.

Ectopic Pregnancy

Ectopic pregnancy (EP) is a potentially life-threatening adverse pregnancy outcome that requires prompt evaluation and treatment, and an important cause of pregnancy related mortality. Past studies have found that it affects 1–2% of all pregnancies.^{26–27} Fallopian tube pathology is the most common etiology of EP.²⁸

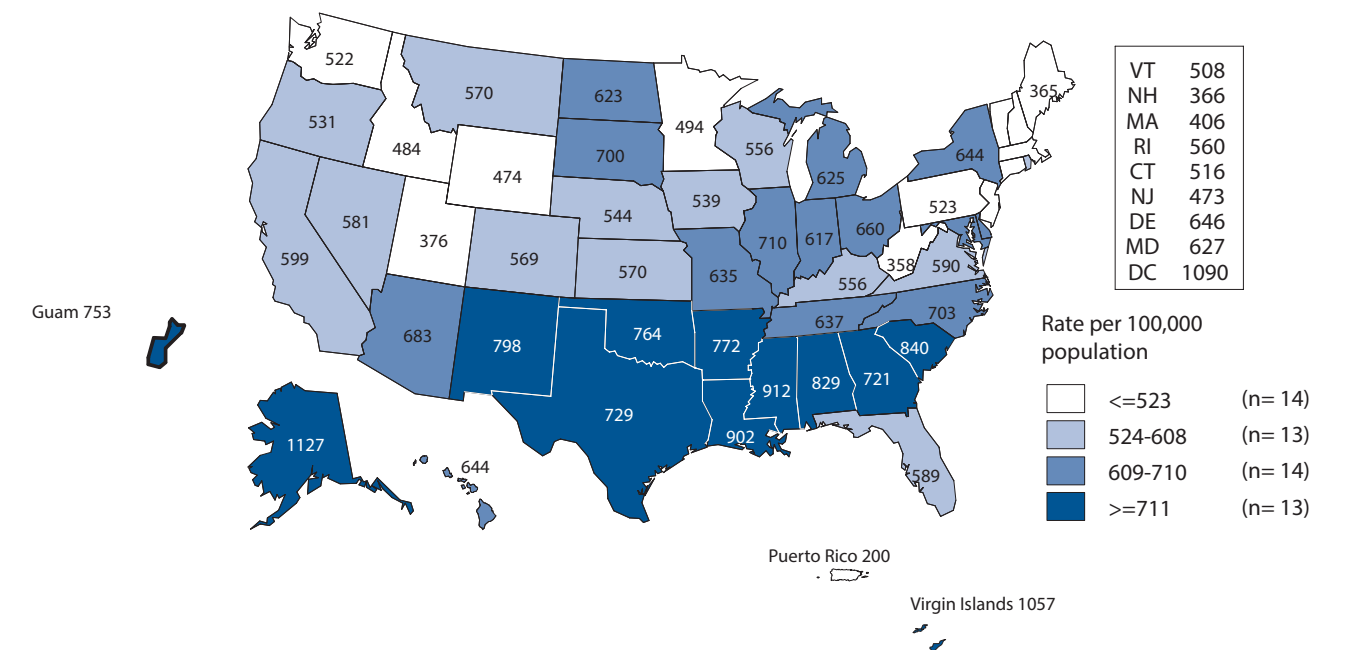
In the past, the National Hospital Discharge Survey, which collects information on discharged hospital in-patients in the United States, was used to estimate trends in the rate of EP. However, medical and surgical treatment of EP is currently provided in both inpatient and outpatient settings, making the task of tracking reliable estimates at the national level difficult.²⁹ More recent attempts to estimate EP incidence use data from surveys or administrative databases of public and private insurance and managed care systems.³⁰ Data from a large administrative claims database suggests the rate of EP increases with age among pregnancies in girls and women aged 15–44 years during the period of 2003 to 2013 (Figure G). In 2013, EP rates were highest among women aged 35–44 years. During 2012–2013, the EP rate decreased among all age groups, most notably in the 25–29 age group (21%).

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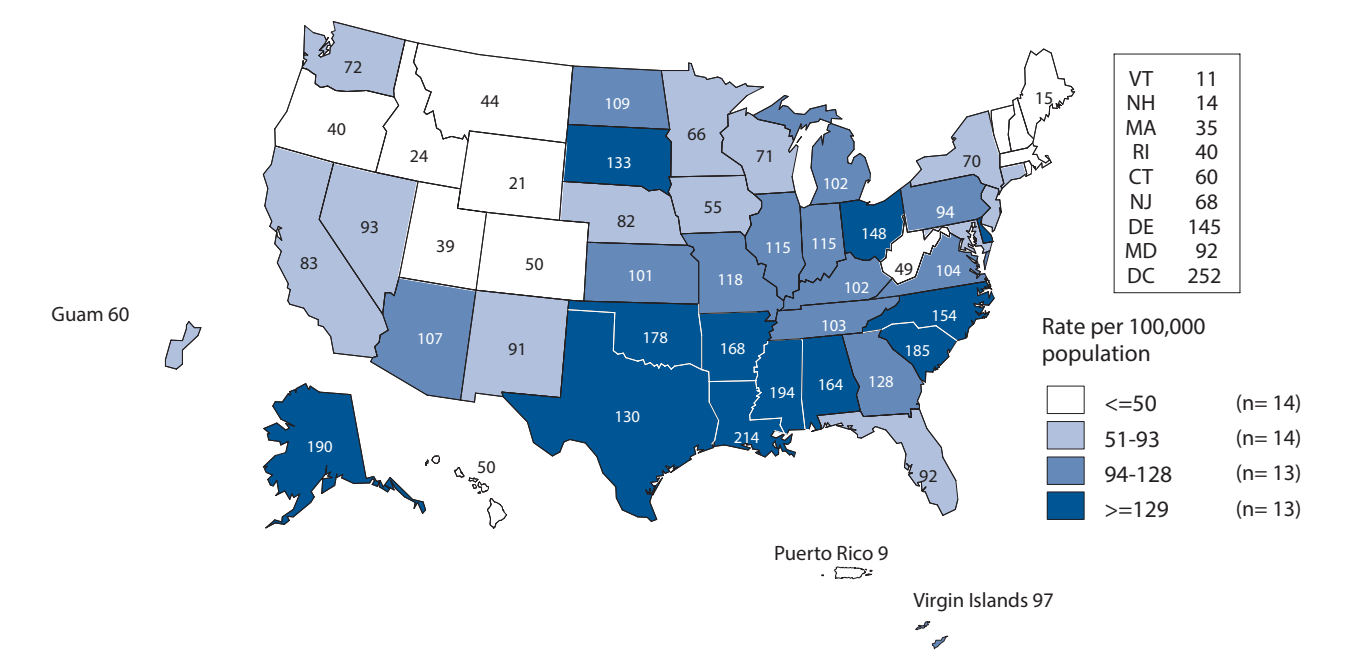
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Figure A. Chlamydia — Rates of Reported Cases Among Women by State, United States and Outlying Areas, 2014



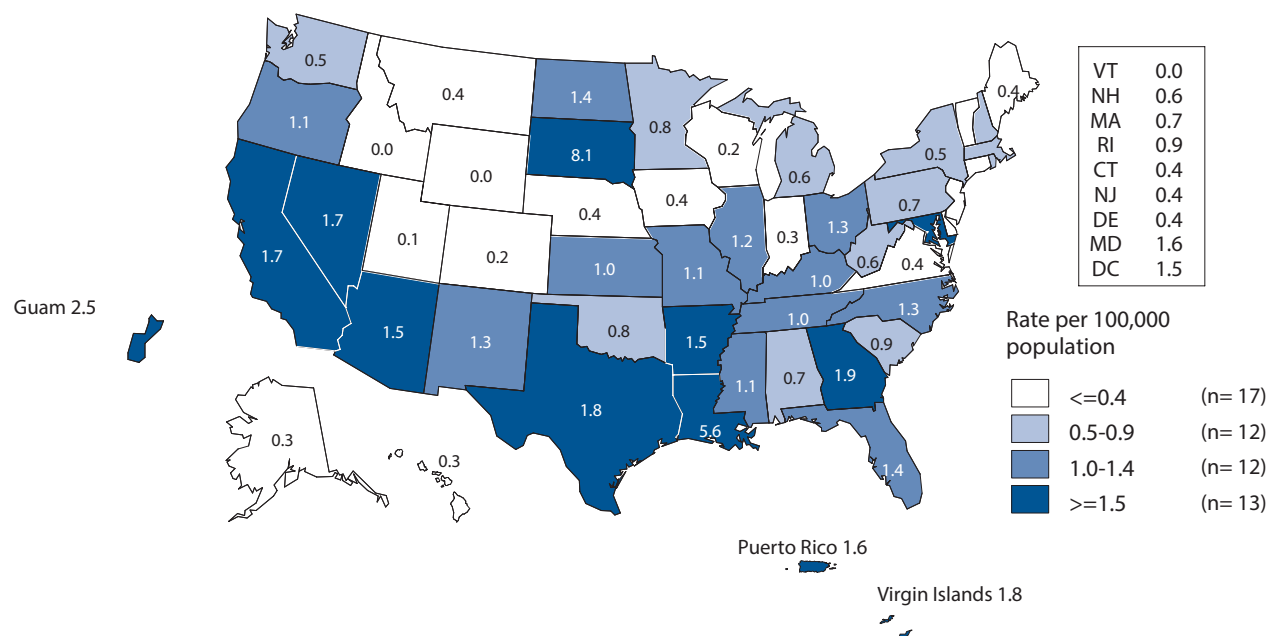
NOTE: The total rate of reported cases of chlamydia among women in the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 622.4 per 100,000 female population.

Figure B. Gonorrhea — Rates of Reported Cases Among Women by State, United States and Outlying Areas, 2014



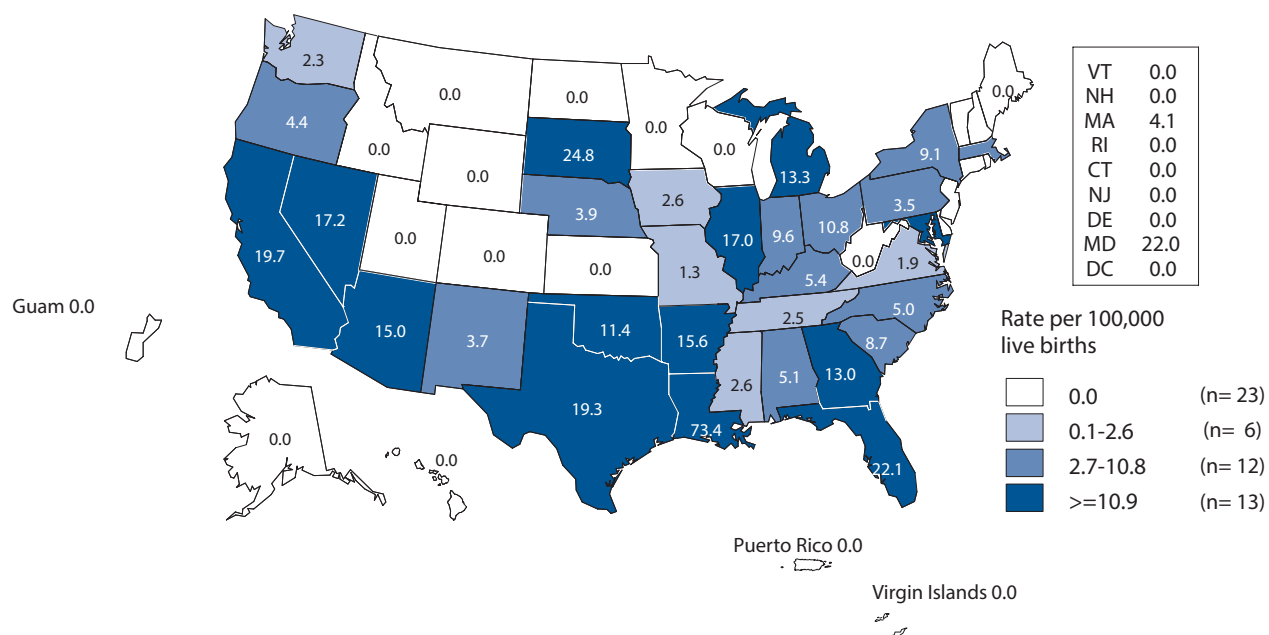
NOTE: The total rate of reported cases of gonorrhea among women in the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 100.2 per 100,000 female population.

Figure C. Primary and Secondary Syphilis — Rates of Reported Cases Among Women by State, United States and Outlying Areas, 2014



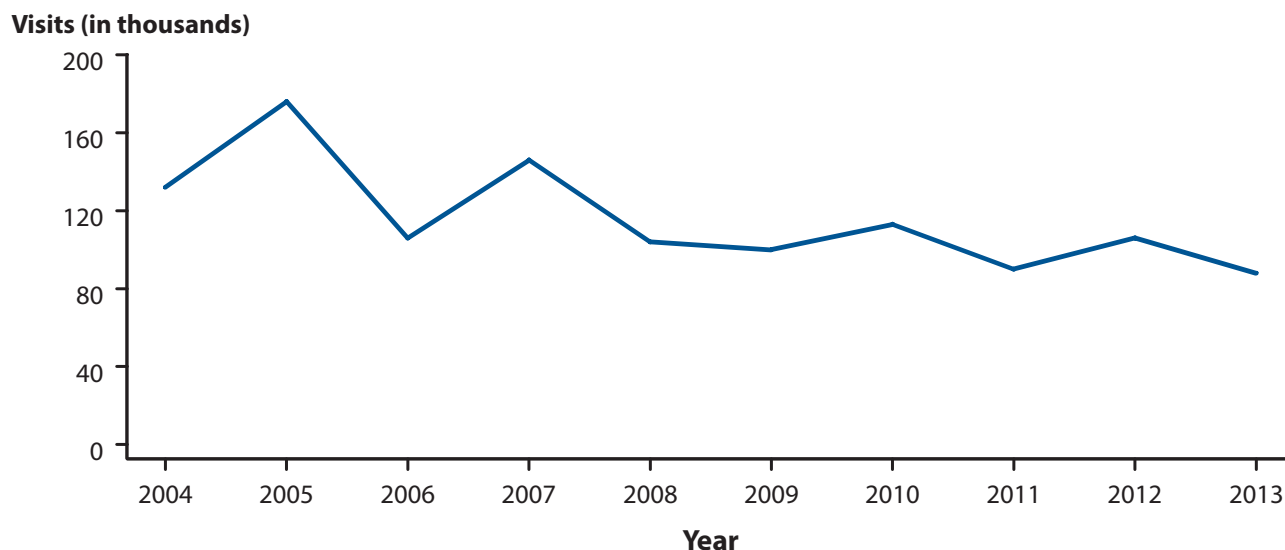
NOTE: The total rate of primary and secondary syphilis among women in the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 1.2 per 100,000 female population.

Figure D. Congenital Syphilis — Rates of Reported Cases by Year of Birth and State, United States and Outlying Areas, 2014



NOTE: The total rate of congenital syphilis for infants by year of birth for the United States and outlying areas (Guam, Puerto Rico, and Virgin Islands) was 11.5 per 100,000 live births.

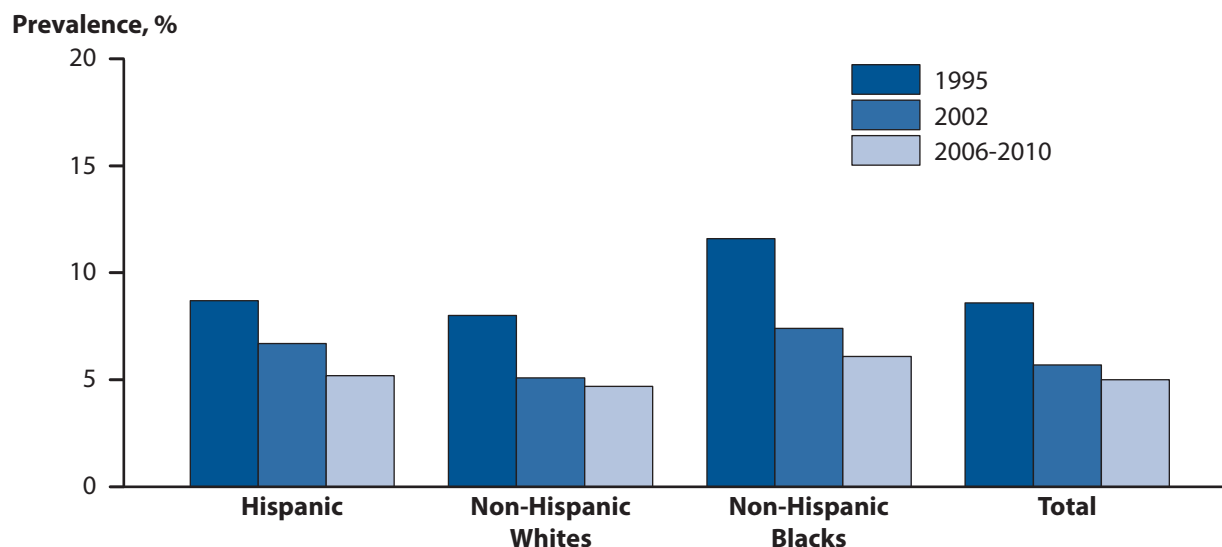
Figure E. Pelvic Inflammatory Disease — Initial Visits to Physicians' Offices Among Women Aged 15–44 Years, United States, 2004–2013



NOTE: The relative standard errors for these estimates are 16%–23%. See Section A2.5 in the Appendix and Table 45.

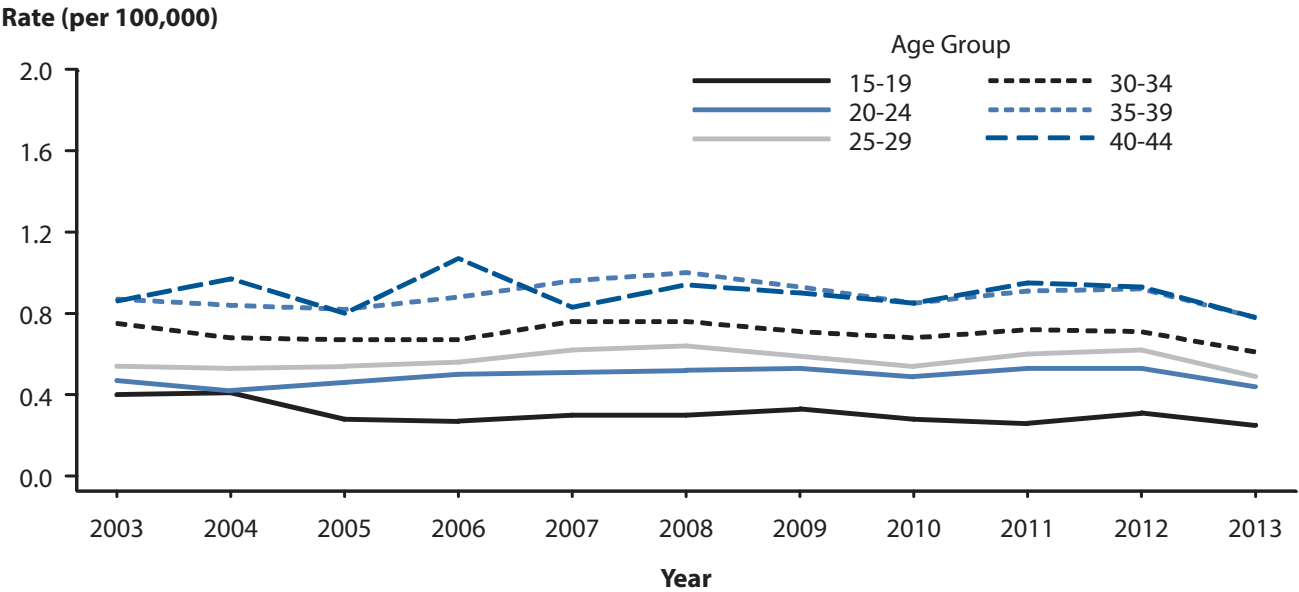
SOURCE: National Disease and Therapeutic Index, IMS Health, Integrated Promotional Services™, IMS Health Report, 2004–2013. The 2014 data were not obtained in time to include them in this report.

Figure F. Pelvic Inflammatory Disease — Trends in Lifetime Prevalence of Treatment Among Sexually Experienced Women Aged 15–44 by Race/Ethnicity, National Survey of Family Growth, 1995, 2002, 2006–2010



SOURCE: Leichliter, Jami. Chandra Anjani, Aral SO. Correlates of Self-Reported Pelvic Inflammatory Disease Treatment in Sexually Experienced Reproductive-Aged Women in the United States, 1995, 2002, and 2006–2010. Sex Transm Dis. 2013;40(5):413–418.

Figure G Ectopic Pregnancy — Rates Among Commercially Insured Pregnant Women Aged 15–44 Years by Age, 2003–2013



SOURCE: MarketScan Commercial Claims and Encounters Database, Truven Health Analytics, Ann Arbor, MI, 2003-2013.

STDs in Adolescents and Young Adults

Public Health Impact

Incidence and prevalence estimates suggest that young people aged 15–24 years acquire half of all new STDs¹ and that 1 in 4 sexually active adolescent females have an STD, such as chlamydia or human papillomavirus (HPV).² Compared with older adults, sexually active adolescents aged 15–19 years and young adults aged 20–24 years are at higher risk of acquiring STDs for a combination of behavioral, biological, and cultural reasons. For some STDs, such as chlamydia, adolescent females may have increased susceptibility to infection because of increased cervical ectopy. Cervical ectopy refers to columnar cells, which are typically located within the cervical canal, being located on the outer surface of the cervix. Although this is a normal finding in adolescent and young women, these cells are more susceptible infection. The higher prevalence of STDs among adolescents may also reflect multiple barriers to accessing quality STD prevention and management services, including inability to pay, lack of transportation, long waiting times, conflicts between clinic hours and work and school schedules, embarrassment attached to seeking STD services, method of specimen collection, and concerns about confidentiality.³

Traditionally, intervention efforts have targeted individual level factors associated with STD risk which do not address higher-level factors (e.g., peer norms and media influences) that may also influence behaviors.⁴ Interventions for at-risk adolescents and young adults that address underlying aspects of the social and cultural conditions that affect sexual risk-taking behaviors are needed, as are strategies designed to improve the underlying social conditions themselves.^{5,6} In addition, in designing STD programs, consideration should be given to the needs of adolescent and young adult populations including extended hours, optimizing privacy in waiting rooms, and urine based specimen collection.³

Observations

Chlamydia

In 2014, there were 948,102 reported cases of chlamydial infection among persons aged 15–24 years of age, representing 66% of all reported chlamydia cases. Among those aged 15–19 years, the rate of reported cases of chlamydia decreased 3.5% during 2013–2014 (1,869.7 to 1,804.0 per 100,000) (Table 10). Among those aged 20–24 years, the rate increased 2.3% during 2013–2014 (2,428.8 to 2,484.6 per 100,000) (Table 10).

Among women aged 15–24 years of age, the population targeted for chlamydia screening, the overall rate of reported cases of chlamydia was 3,309.4 per 100,000 females. Rates varied by state, with highest reported case rates in the South (Figure H).

15- to 19-Year Old Women — In 2014, the chlamydia case rate among women aged 15–19 years was 2,941.0 cases per 100,000 females, a 4.2% decrease from the 2013 rate of 3,068.4 cases per 100,000 females (Table 10). Decreases in rates of reported cases were largest among 15-, 16-, and 17-year old females (Table 12).

20- to 24-Year Old Women — In 2014, women aged 20–24 years had the highest rate of chlamydia (3,651.1 cases per 100,000 females) compared with any other age and sex group (Figure 5). The overall chlamydia case rate among women in this age group increased 1.6% during 2013–2014 (Table 10). However, increases in rates of reported cases were largest among 23- and 24-year old females (Table 12).

15- to 19-Year Old Men — During 2013–2014, the chlamydia case rate for men aged 15–19 years decreased 0.6% (722.9 to 718.3 cases per 100,000 males) (Table 10).

20- to 24-Year Old Men — In 2014, as in previous years, men aged 20–24 years had the highest rate of chlamydia among men (1,368.3 cases per 100,000 males). The chlamydia rate for men in this age group increased 4.4% during 2013–2014 (Table 10).

Gonorrhea

During 2013–2014, the rate of reported gonorrhea cases decreased 5.0% for persons aged 15–19 years and increased 2.8% for persons aged 20–24 years (Table 21). Among women aged 15–24 years, the overall rate was 484.0 per 100,000 females. Rates varied by state, with highest reported case rates in the South (Figure I).

15- to 19-Year Old Women — In 2014, women aged 15–19 years had the second highest rate of gonorrhea (430.5 cases per 100,000 females) compared with other females (Figure 17, Table 21). During 2013–2014, the gonorrhea rate for women in this age group decreased 7.0%.

20- to 24-Year Old Women — In 2014, women aged 20–24 years had the highest rate of gonorrhea (533.7 cases per 100,000 females) compared with any other age or sex group (Figure 17, Table 21). During 2013–2014, the gonorrhea rate for women in this age group decreased 0.7%.

15- to 19-Year Old Men — In 2014, the gonorrhea rate among men aged 15–19 years was 221.1 cases per 100,000 males (Figure 17, Table 21). During 2013–2014, the gonorrhea rate for men in this age group decreased 0.9%.

20- to 24-Year Old Men — In 2014, as in previous years, men aged 20–24 years had the highest rate of gonorrhea (485.6 cases per 100,000 males) compared with other males (Figure 17, Table 21). During 2013–2014, the gonorrhea rate for men in this age group increased 6.9%.

Primary and Secondary Syphilis

During 2013–2014, the rate of reported primary and secondary (P&S) syphilis cases increased 11.6% among persons aged 15–19 years and 13.1% among persons aged 20–24 years (Table 35).

15- to 19-Year Old Women — The rate of reported P&S syphilis cases among women aged 15–19 years decreased each year during 2009–2013 (from 3.3 cases to 1.9 cases per 100,000 females) (Figure 38, Table 35). However, during 2013–2014, the rate increased 31.6%, to 2.5 cases per 100,000 females.

20- to 24-Year Old Women — In 2014, women aged 20–24 years had the highest rate of P&S syphilis (4.5 cases per 100,000 females) compared with other female age groups (Figure 37, Table 35). During 2013–2014, the P&S syphilis rate for women in this age group increased 15.4%.

15- to 19-Year Old Men — In 2014, the P&S syphilis rate among men aged 15–19 years was 7.0 cases per 100,000 males (Figure 37). During 2013–2014, the P&S syphilis rate for men in this age group increased 7.7% (Figure 39, Table 35).

20- to 24-Year Old Men — In 2014, men aged 20–24 years had the second highest rate of P&S syphilis compared

with any other age group for either sex (Figure 37). During 2013–2014, the P&S syphilis rate for men in this age group increased 13.5% (Figure 39, Table 35).

National Job Training Program

The National Job Training Program (NJTP) is an educational program for socioeconomically disadvantaged youth aged 16–24 years and is administered at more than 100 sites throughout the country. The NJTP screens participants for chlamydia and gonorrhea within two days of entry to the program. All of NJTP's chlamydia screening tests and the majority of gonorrhea screening tests are conducted by a single national contract laboratory*, which provides these data to CDC. To increase the stability of the estimates, chlamydia or gonorrhea prevalence data are presented when valid test results for 100 or more students per year are available for the population subgroup and state. The 2014 data were not available for inclusion in this report. Additional information about NJTP can be found in Section A2.1 in the Appendix.

Among women entering the program in 40 states, the District of Columbia, and Puerto Rico, the median state-specific chlamydia prevalence in 2013 was 11.7% (range: 4.1% to 19.0%) (Figure J). Among men entering the program in 47 states, the District of Columbia, and Puerto Rico, the median state-specific chlamydia prevalence was 7.4% (range: 1.8% to 14.6%) (Figure K).

Among women entering the program in 39 states and Puerto Rico, the median state-specific gonorrhea prevalence in 2013 was 2.1% (range: 0.0% to 5.6%) (Figure L). Among men entering the program in 36 states and Puerto Rico, the median state-specific gonorrhea prevalence was 0.7% (range: 0.0% to 2.6%) (Figure M).

* Laboratory data are provided by the Center for Disease Detection, LLC San Antonio, Texas.

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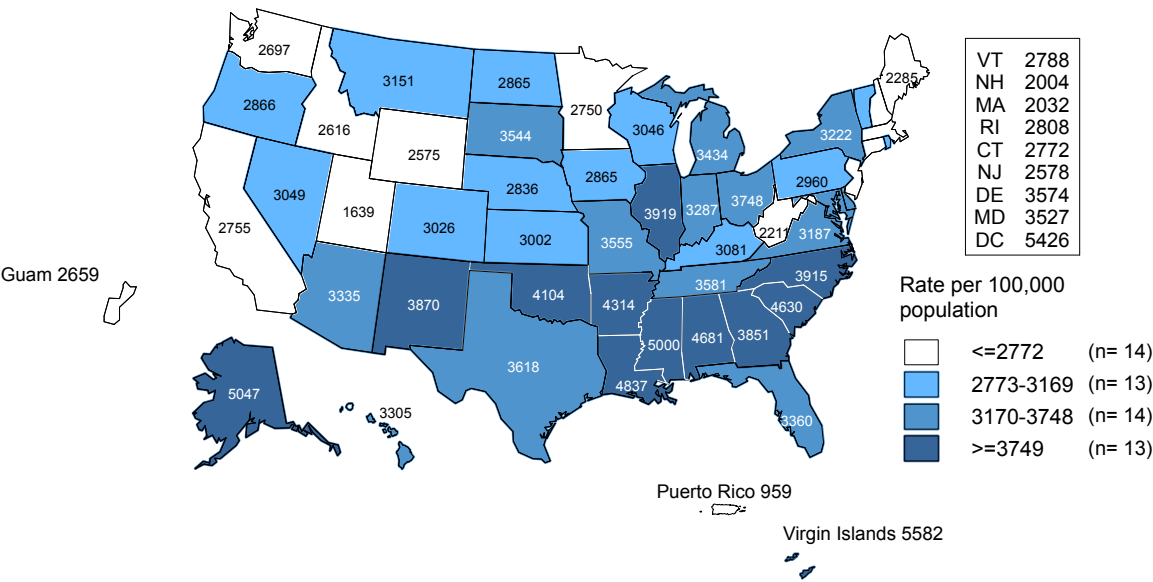
³ Tilson EC, Sanchez V, Ford CL, Smurzynski M, Leone PA, Fox KK et al. Barriers to asymptomatic screening and other STD services for adolescents and young adults: focus group discussions, 2004. *BMC Public Health* 2004, (4):21.

⁴ DiClemente RJ, Salazar LF, Crosby RA. A review of STD/HIV preventive interventions for adolescents: sustaining effects using an ecological approach. *J. Pediatr. Psychol.* 2007;32 (8): 888-906.

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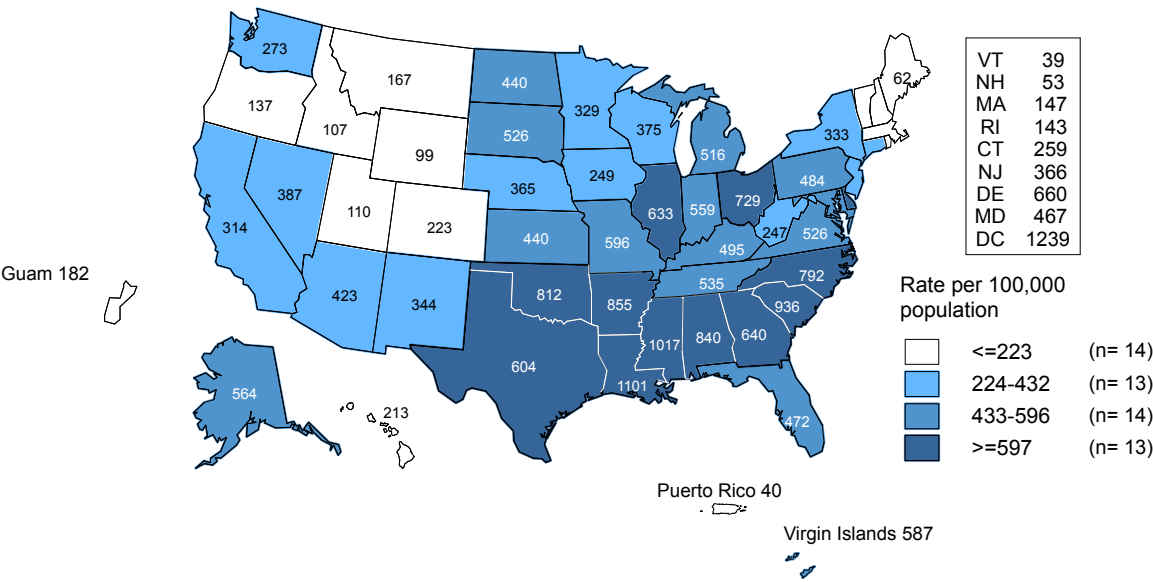
⁶ Upchurch DM, Mason W, Kusunoki Y, Kriechbaum MJ. Social and behavioral determinants of self-reported STD among adolescents. *Perspect Sex Reprod Health.* 2004;36(6):276-287.

Figure H. Chlamydia — Rates of Reported Cases Among Women 15–24 Years of Age by State, United States and Outlying Areas, 2014



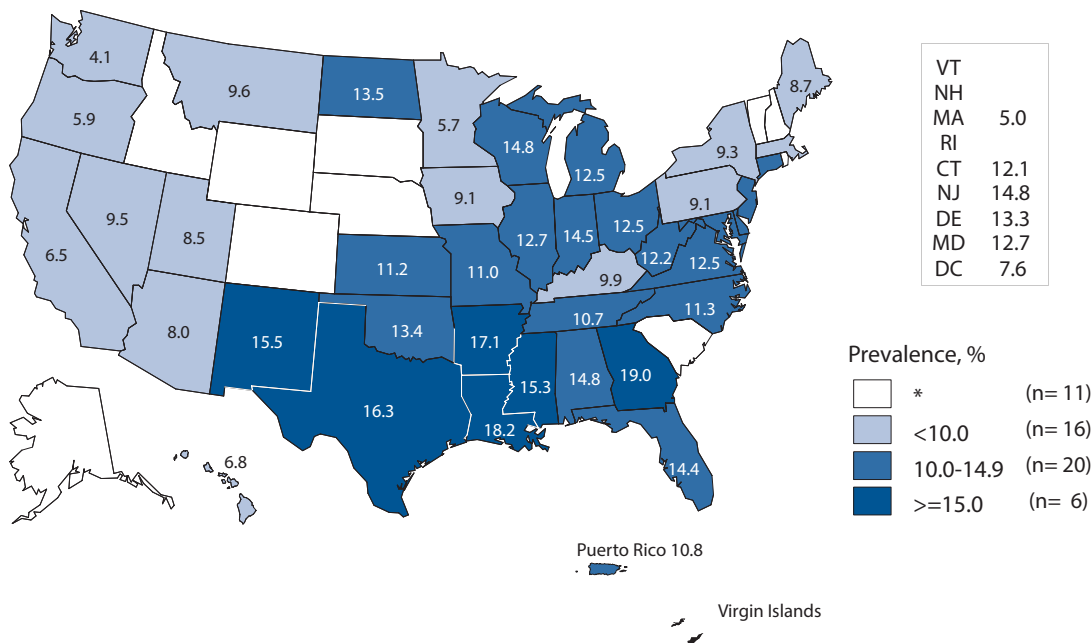
NOTE: Rates for Guam and the Virgin Islands were calculated by using the 2010 population estimates (see Section A1.2 in the Appendix).

Figure I. Gonorrhea — Rates of Reported Cases Among Women 15–24 Years of Age by State, United States and Outlying Areas, 2014



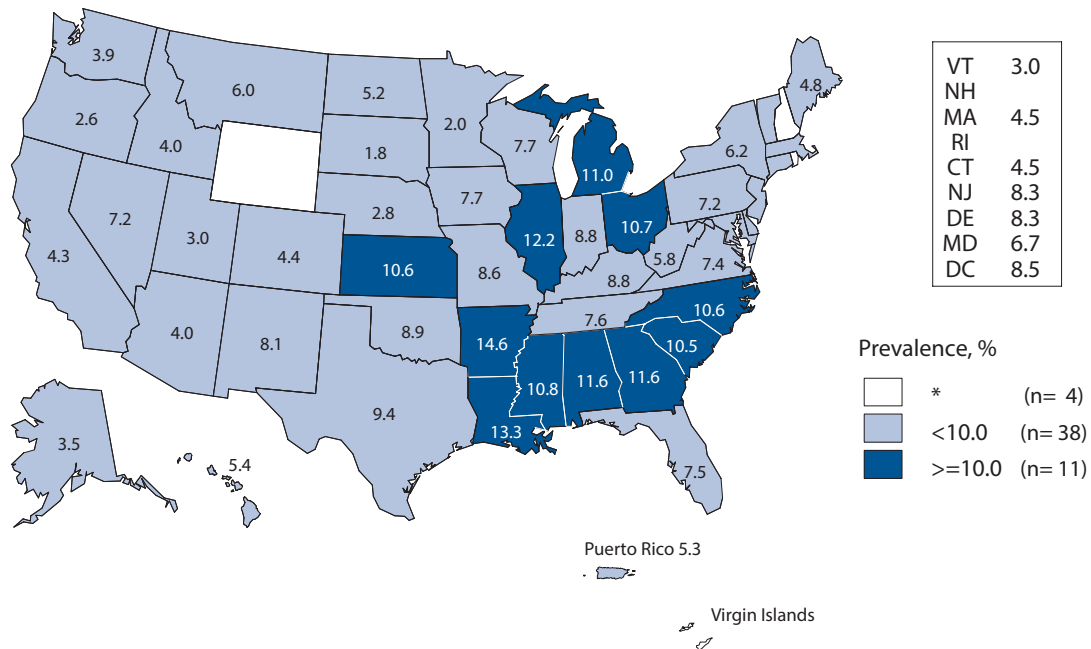
NOTE: Rates for Guam and the Virgin Islands were calculated by using the 2010 population estimates (see Section A1.2 in the Appendix).

Figure J. Chlamydia — Prevalence Among Women Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Outlying Areas, 2013



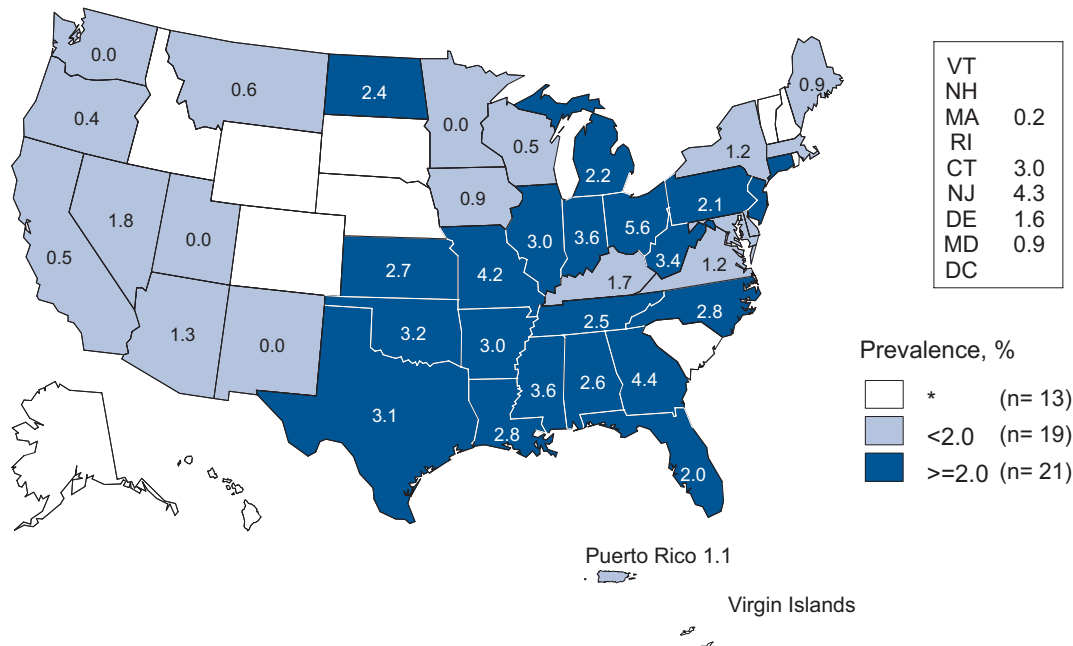
* Fewer than 100 women who resided in these states/areas and entered the National Job Training Program were screened for chlamydia in 2013.

Figure K. Chlamydia — Prevalence Among Men Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Outlying Areas, 2013



* Fewer than 100 men who resided in these states/areas and entered the National Job Training Program were screened for chlamydia in 2013.

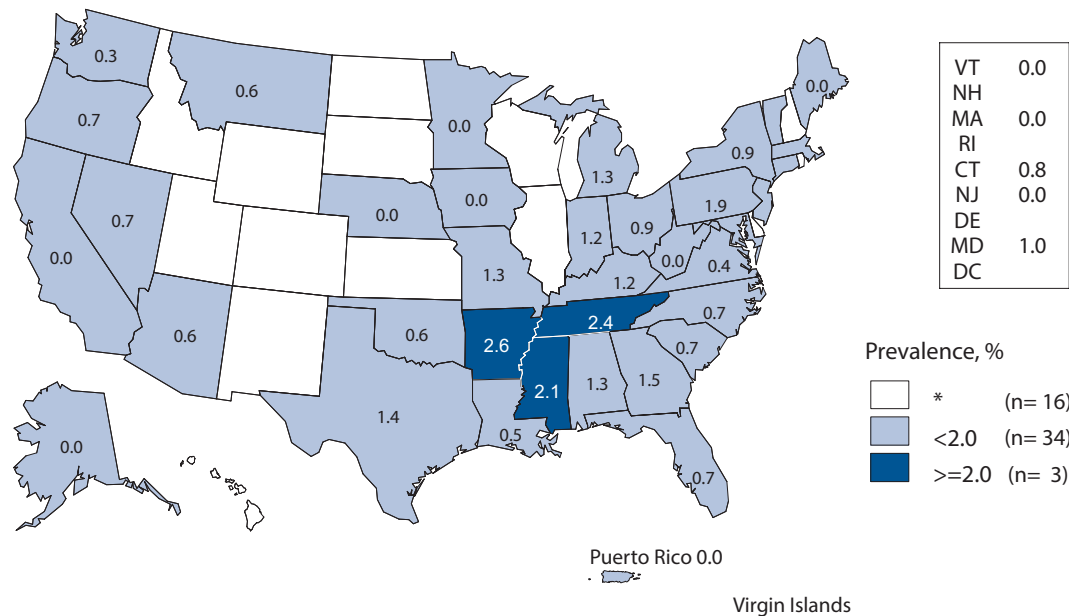
Figure L. Gonorrhea — Prevalence Among Women Aged 16–24 Years Entering the National Job Training Program, by State of Residence, United States and Outlying Areas, 2013



* Fewer than 100 women who resided in these states/areas and entered the National Job Training Program were screened for gonorrhea in 2013.

NOTE: Many training centers use local laboratories to test female students for gonorrhea; these results are not available to CDC. For this map, gonorrhea test results for students at centers that submitted specimens to the national contract laboratory were included if the numbers of gonorrhea tests submitted was greater than the 90% of the number of chlamydia tests submitted.

Figure M. Gonorrhea — Prevalence Among Men Aged 16–24 Years Entering the National Job Training Program, by State of Residence, United States and Outlying Areas, 2013



* Fewer than 100 men who resided in these states/areas and entered the National Job Training Program were screened for gonorrhea in 2013.

NOTE: Many training centers use local laboratories to test female students for gonorrhea; these results are not available to CDC. For this map, gonorrhea test results for students at centers that submitted specimens to the national contract laboratory were included if the numbers of gonorrhea tests submitted was greater than the 90% of the number of chlamydia tests submitted.

STDs in Racial and Ethnic Minorities

Public Health Impact

Surveillance data show higher rates of reported STDs among some racial or ethnic minority groups when compared with rates among whites.^{1,2} Race and ethnicity in the United States are population characteristics that are correlated with other fundamental determinants of health status such as high rates of poverty, income inequality, unemployment and low educational attainment.³⁻⁵ People who struggle financially are often experiencing life circumstances that potentially increase their risk for STDs.⁶

Those who cannot afford basic necessities may have trouble accessing and affording quality sexual health services.⁷ The overall U.S. poverty rate in 2013 was 14.5 (or 46.7 million) and remained the same in 2014 (the most recent year for which poverty statistics are available). Although the poverty rate did not change, many Americans continue to face economic challenges. For example, the poverty rate for whites was 10.1% (19.7 million), for blacks it was 26.2% (or 10.8 million), and for Hispanics it was 23.6% (or 13.1 million).^{3,8} Although the overall proportion of adults without health insurance decreased from 13.3% in 2013 to 10.4% (or 31.6 million) in 2014, many people in the U.S. may still not have access to health care.⁹ Among all races and ethnicities in the U.S., Hispanics had the lowest rate of health insurance coverage in 2014 at 80.1% (or 55.6 million).^{9,10} Non-U.S. citizens (i.e., immigrants or undocumented persons) may face additional barriers in accessing care. In 2014, 31.2% (or 7 million) of persons not U.S. citizens did not have health insurance coverage. Even when health care is available, fear and distrust of health care institutions can negatively affect the health care-seeking experience for many racial/ethnic minorities when there is social discrimination, provider bias, or the perception that these may exist.¹¹ Moreover, the quality of care may differ substantially for minority patients.¹² These inequities in social and economic conditions are reflected in the profound disparities observed in the incidence of STDs among some racial and ethnic minorities.

In communities where STD prevalence is higher because of these inequalities, individuals may have a more difficult time reducing their risk for infection. With each sexual encounter, they face a greater chance of encountering an infected partner than those in lower prevalence settings.² Acknowledging the inequity in STD rates by race or ethnicity is one of the first steps in empowering affected communities to organize and focus on this problem.

STD Reporting Practices

Surveillance data are based on cases of STDs reported to state and local health departments (see Section A.1 in the Appendix). In many state and local health jurisdictions, electronic laboratory reporting is increasingly a primary source of initial case notifications. These reports are often missing race and ethnicity of the patient; ascertainment of information on race and Hispanic ethnicity is often a function of active follow-up or dependent on previous information available about the patient in existing health department surveillance databases. Prevalence data from population-based surveys, such as National Health and Nutrition Examination Survey (NHANES) and the National Longitudinal Study of Adolescent Health, confirm the existence of marked STD disparities in some minority populations.^{13, 14}

Method of Classifying Race & Hispanic Ethnicity

Interpretation of racial and ethnic disparities among persons with STDs is influenced by data collection methods, and by the categories by which these data are displayed. Race/ethnicity data are presented in Office of Management and Budget (OMB) race and ethnic categories, according to the 1997 revised OMB standards. However, NCHS bridged-race categories are used where OMB categories are not available (congenital syphilis).¹⁵ Forty-eight states collect and report data in formats compliant with these standards as of 2014. One additional jurisdiction reported cases of primary & secondary (P&S) syphilis by the appropriate standard, but did not report chlamydia and gonorrhea cases by this standard. Historical trend and rate data by race and Hispanic ethnicity displayed in figures and interpreted in this report for 2010–2014 include only those jurisdictions (43 states for chlamydia/gonorrhea and 44 states for syphilis) reporting in the current standard consistently for years 2010 through 2014. Please refer to Section A1.5 of the Appendix for additional information on reporting data for race and Hispanic ethnicity.

Completeness of Race/Ethnicity Data

Chlamydia — In 2014, 27.1% of chlamydia case reports were missing race or ethnicity data, ranging by state from 0.5% to 65.9% (Table A1).

Gonorrhea — In 2014, 19.3% of gonorrhea case reports were missing information on race or ethnicity, ranging by state from 0.0% to 64.0% (Table A1).

Syphilis — In 2014, 4.5% of P&S syphilis case reports were missing information on race or ethnicity, ranging from 0.0% to 31.3% among states with 10 or more cases of P&S syphilis (Table A1).

Observations

Chlamydia

Among the 43 states that submitted data on race and Hispanic ethnicity for each year during 2010–2014 according to the OMB standards, rates of reported cases of chlamydia increased during 2010–2014 among all racial and ethnic groups except among blacks (Figure 6). During 2010–2014, chlamydia rates increased 12.6% among American Indians/Alaska Natives, 5.6% among Hispanics, 11.5% among Asians, 34.5% among Native Hawaiians/Other Pacific Islanders, and 26.9% among whites. During 2010–2014, rates of reported cases of chlamydia decreased 6.2% among blacks.

In 2014, 48 states submitted data on race and Hispanic ethnicity according to the OMB standards. The following data pertain to those jurisdictions:

Blacks — In 2014, the overall rate among blacks in the United States was 1,117.9 cases per 100,000 population (Table 11B). The rate of reported cases of chlamydia among black women was 5.7 times the rate among white women (1,432.6 and 253.3 per 100,000 females, respectively) (Table 11B and Figure N). The chlamydia rate among black men was 7.3 times the rate among white men (772.0 and 105.5 cases per 100,000 males, respectively).

Rates of reported cases of chlamydia were highest for blacks aged 15–19 and 20–24 years in 2014 (Table 11B). The chlamydia rate among black females aged 15–19 years was 6,371.5 cases per 100,000 females, which was 4.9 times the rate among white females in the same age group (1,291.6 per 100,000 females). The rate among black women aged 20–24 years was 4.1 times the rate among white women in the same age group (Table 11B).

Similar racial disparities in reported chlamydia rates exist among men. Among males aged 15–19 years, the rate among blacks was nine times the rate among whites (Table 11B). The chlamydia rate among black men aged 20–24 years was 5.4 times the rate among white men of the same age group (3,241.2 and 603.5 cases per 100,000 males, respectively).

American Indians/Alaska Natives — In 2014, the chlamydia rate among American Indians/Alaska Natives was 668.8 cases per 100,000 population (Table 11B). Overall, the rate of chlamydia among American Indians/Alaska Natives in the United States was 3.7 times the rate among whites.

Native Hawaiians/Other Pacific Islanders — In 2014, the chlamydia rate among Native Hawaiians/Other Pacific Islanders was 625.1 cases per 100,000 population (Table 11B). The overall rate among Native Hawaiians/Other Pacific Islanders was 5.6 times the rate among whites and 3.5 times the rate among Asians.

Hispanics — In 2014, the chlamydia rate among Hispanics was 380.6 cases per 100,000 population (Table 11B) which is 2.1 times the rate among whites.

Asians — In 2014, the chlamydia rate among Asians was 112.0 cases per 100,000 population (Table 11B). The overall rate among whites is 1.6 times the rate among Asians.

Gonorrhea

During 2010–2014, among the 43 states that submitted data for each year according to the OMB standards, rates of reported gonorrhea cases increased 100.4% among American Indians/Alaska Natives (84.7 to 169.7 per 100,000 population), 59.8% among whites (25.1 to 40.1 per 100,000), 51.1% among Hispanics (49.1 to 74.2 per 100,000), 44.8% among Asians (14.3 to 20.7 per 100,000), and 44.1% among Native Hawaiians/Other Pacific Islanders (74.3 to 107.1 per 100,000) (Figure 20). The gonorrhea rate decreased 8.2% among blacks (466.4 to 428.1 per 100,000).

In 2014, 48 states submitted data in race and ethnicity categories according to the OMB standards. The following data pertain to those jurisdictions:

Blacks — In 2014, 55.4% of reported gonorrhea cases with known race/ethnicity occurred among blacks (excluding cases with missing information on race or ethnicity, and cases whose reported race or ethnicity was other) (Table 22A). The rate of gonorrhea among blacks in 2014 was 405.4 cases per 100,000 population, which was 10.6 times the rate among whites (38.3 per 100,000) (Table 22B). Although the calculated rate ratio for 2014 differs when considering the 43 jurisdictions that submitted data in race and ethnic categories according to the OMB standards for each year during 2010–2014, this disparity has decreased slightly in recent years (Figure O). In 2014, this disparity was similar for black men (10.6 times the rate among white men) and black women (10.7 times the rate among white women) (Figure P, Table 22B).

As in previous years, the disparity in gonorrhea rates for blacks in 2014 was larger in the Midwest and Northeast than in the West or the South (Figure Q).

Considering all racial/ethnic and age categories, gonorrhea rates were highest for blacks aged 20–24, 15–19, and 25–29 years in 2014 (Table 22B). Black women aged 20–24 had a gonorrhea rate of 1,799.9 cases per 100,000 women.

This rate was 9.5 times the rate among white women in the same age group (188.7 per 100,000). Black women aged 15–19 years had a gonorrhea rate of 1,541.0 cases per 100,000 women, which was 12.7 times the rate among white women in the same age group (121.3 per 100,000).

Black men aged 20–24 years had a gonorrhea rate of 1,670.4 cases per 100,000 men, which was 10.7 times the rate among white men in the same age group (155.4 per 100,000). Black men aged 25–29 years had a gonorrhea rate of 1,291.6 cases per 100,000 men, which was 8.9 times the rate among white men in the same age group (145.5 per 100,000).

American Indians/Alaska Natives — In 2014, the gonorrhea rate among American Indians/Alaska Natives was 159.4 cases per 100,000 population, which was 4.2 times the rate among whites (Table 22B). The disparity between gonorrhea rates for American Indians/Alaska Natives and whites was larger for American Indian/Alaska Native women (5.6 times the rate among white women) than for American Indian/Alaska Native men (2.9 times the rate among white men) (Figure P, Table 22 B). The disparity in gonorrhea rates for American Indians/Alaska Natives in 2014 was larger in the Midwest than in the West, Northeast, and South (Figure Q).

Native Hawaiians/Other Pacific Islanders — In 2014, the gonorrhea rate among Native Hawaiians/Other Pacific Islanders was 102.1 cases per 100,00 population, which was 2.7 times the rate among whites (Table 22B). The disparity between gonorrhea rates for Native Hawaiians/Other Pacific Islanders and whites was the similar for Native Hawaiian/Other Pacific Islander women (2.9 times the rate among white women) and Native Hawaiian/Other Pacific Islander men (2.4 times the rate among white men) (Figure P, Table 22B). The disparity in gonorrhea rates for Native Hawaiians/Other Pacific Islanders in 2014 was lower in the West than in the Midwest, Northeast, and South (Figure Q).

Hispanics — In 2014, the gonorrhea rate among Hispanics was 73.3 cases per 100,000 population, which was 1.9 times the rate among whites (Table 22B). This disparity was similar for Hispanic women (1.8 times the rate among white women) and Hispanic men (2.0 times the rate among white men) (Figure P, Table 22B). The disparity in gonorrhea rates for Hispanics was highest in the Northeast and lowest in the West and Midwest (Figure Q).

Asians — In 2014, the gonorrhea rate among Asians was 19.3 cases per 100,000 population, which was lower than (0.5 times) the rate among whites (Table 22B). This difference is larger for Asian women than for Asian men (Figure P, Table 22B). In 2014, rates among Asians were lower than rates among whites in all four regions of the United States (Figure Q).

Primary and Secondary (P&S) Syphilis

During 2010–2014, 44 states submitted syphilis data for each year according to the OMB standards. Among these states during 2010–2014, rates of reported P&S syphilis cases increased 152.6% among American Indians/Alaska Natives (3.1 to 7.9 per 100,000 population), 135.2% among Asians (1.2 to 2.9 per 100,000), 80.2% among Hispanics (4.2 to 7.5 per 100,000 population), 56.7% among whites (2.2 to 3.5 per 100,000), 38.2% among Native Hawaiians/Other Pacific Islanders (5.1 to 7.1 per 100,000), and 7.8% among blacks (17.8 to 19.2 per 100,000) (Figure 40).

In 2014, 49 states submitted syphilis data by race and ethnicity according to the OMB standards. The following data pertain to those jurisdictions:

Blacks — In 2014, 38.1% of reported P&S syphilis cases with known race/ethnicity occurred among blacks (excluding cases with missing information on race or ethnicity, and cases whose reported race or ethnicity was other) (Table 36A). The P&S syphilis rate among blacks in 2014 was 18.9 cases per 100,000 population, which was 5.4 times the rate among whites (3.5 per 100,000) (Table 36B). This disparity was higher for black women (9.2 times the rate among white women) than for black men (5.3 times the rate among white men) (Figure R, Table 36B).

Considering all race/ethnicity, sex, and age categories, P&S syphilis rates were highest among black men aged 20–24 years and 25–29 years in 2014 (Table 36B). Black men aged 20–24 years had a P&S syphilis rate of 106.3 cases per 100,000 men. This rate was 8.5 times the rate among white men in the same age group (12.5 per 100,000). Black men aged 25–29 years had a P&S syphilis rate of 121.3 cases per 100,000 men, which was 7.9 times the rate among white men in the same age group (15.4 per 100,000).

American Indians/Alaska Natives — In 2014, the P&S syphilis rate among American Indians/Alaska Natives was 7.6 cases per 100,000 population, 2.2 times the rate among whites (Table 36B). This disparity was larger for American Indian/Alaska Native women (9.6 times the rate among white women) than for American Indian/Alaska Native men (1.6 times the rate among white men).

Native Hawaiians/Other Pacific Islanders — In 2014, the P&S syphilis rate among Native Hawaiians/Other Pacific Islanders was 6.5 cases per 100,000 population, which was 1.9 times the rate among whites (Table 36B). This disparity was similar for Native Hawaiian/Other Pacific Islander women (1.6 times the rate among white women) and Native Hawaiian/Other Pacific Islander men (1.8 times the rate among white men).

Hispanics — In 2014, the P&S syphilis rate among Hispanics was 7.6 cases per 100,000 population, which was 2.2 times the rate among whites (Table 36B). This disparity was similar for Hispanic women (2.2 times the rate among white women) and Hispanic men (2.1 times the rate among white men).

Asians — In 2014, the P&S syphilis rate among Asians was 2.8 cases per 100,000 population, which was 0.8 times the rate among whites (Table 36B). This difference is larger for Asian women (0.4 times the rate among white women) than for Asian men (0.9 times the rate among white men).

Congenital Syphilis

Race/ethnicity for cases of congenital syphilis is based on the mother's race/ethnicity. During 2013–2014, rates of reported congenital syphilis cases increased 102.9% among Asians/Pacific Islanders, 32.1% among whites,

21.7% among blacks, and 19.8% among Hispanics (Table 43, Figure U). The congenital syphilis rate did not change among American Indians/Alaska Natives.

In 2014, 50.6% of congenital syphilis cases with known race/ethnicity occurred among blacks (excluding cases with missing information on race or ethnicity, and cases whose reported race or ethnicity was other) (Table 43). The rate of congenital syphilis among blacks in 2014 was 38.2 cases per 100,000 live births, which was 10.3 times the rate among whites (3.7 per 100,000 live births). The rate of congenital syphilis was 12.7 cases per 100,000 live births among American Indians/Alaska Natives (3.4 times the rate among whites), 12.1 cases per 100,000 live births among Hispanics (3.3 times the rate among whites), and 6.9 cases per 100,000 births among Asians/Pacific Islanders (1.9 times the rate among whites).

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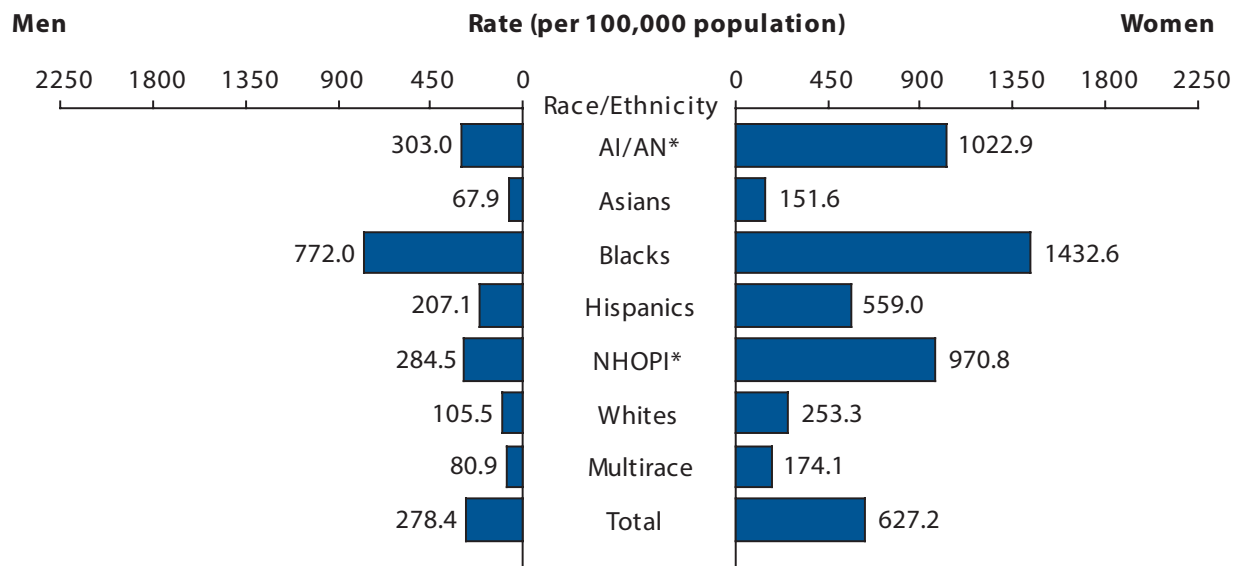
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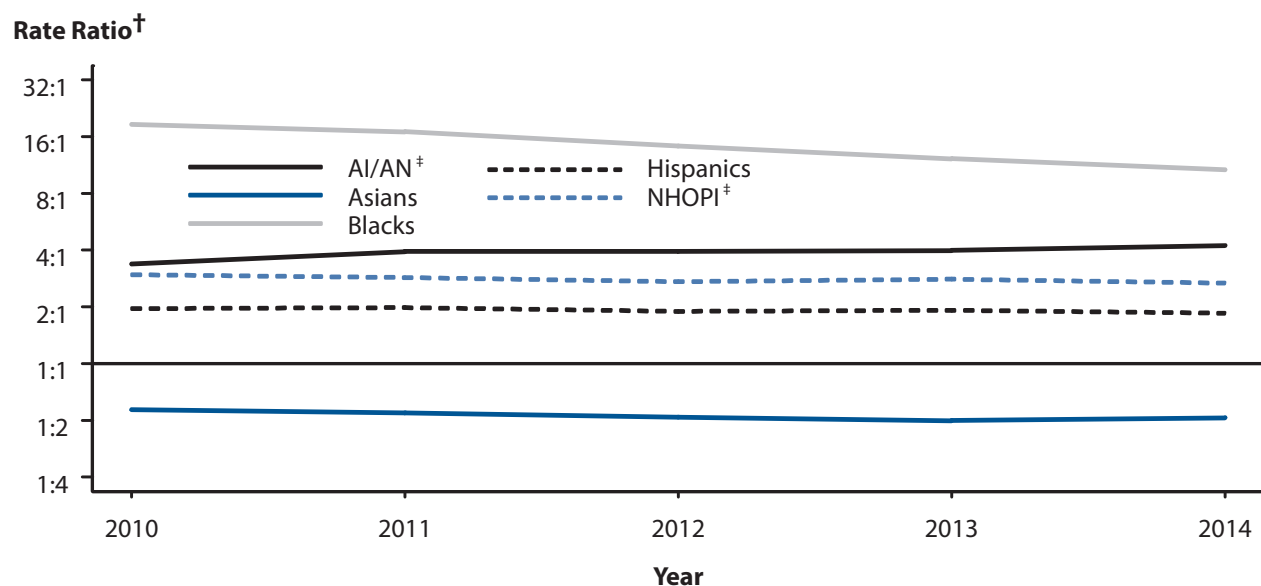
Figure N. Chlamydia — Rates of Reported Cases by Race/Ethnicity and Sex, United States, 2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 48 states reporting race/ethnicity data in Office of Management and Budget compliant formats in 2014 (see Section A1.5 in the Appendix).

Figure O. Gonorrhea — Rate Ratios* by Race/Ethnicity, United States, 2010–2014



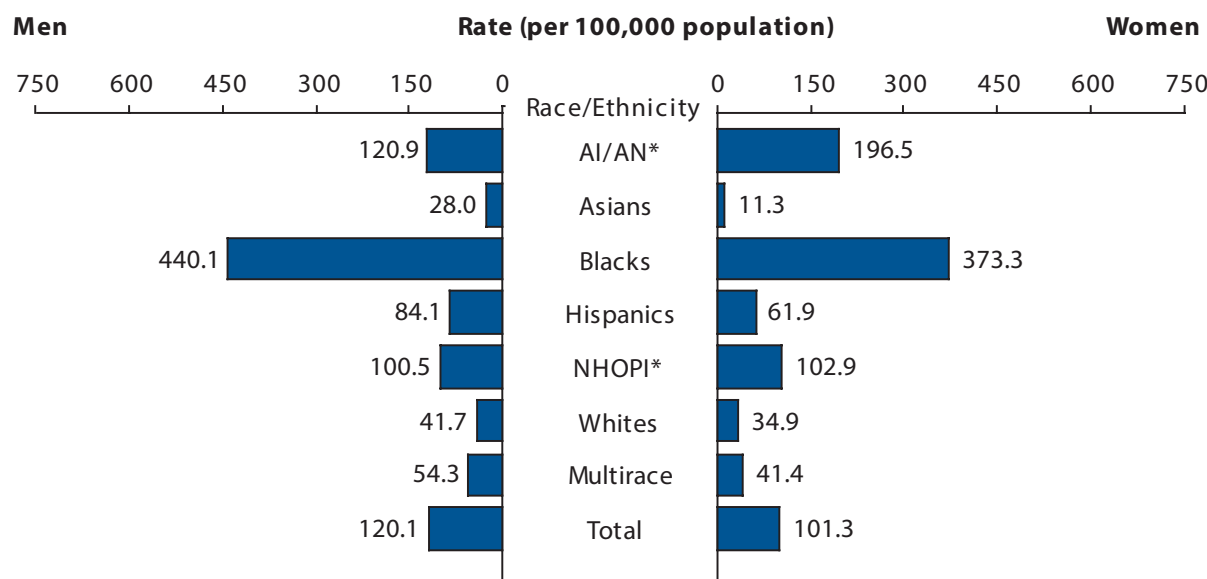
* Rate ratios are calculated as the rate of reported gonorrhea cases per 100,000 population for a given racial or ethnic minority population divided by the rate of reported gonorrhea cases per 100,000 population for non-Hispanic whites. Any population with a lower rate of reported cases of gonorrhea than the non-Hispanic white population will have a rate ratio of less than 1:1.

† Y-axis is log scale.

* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

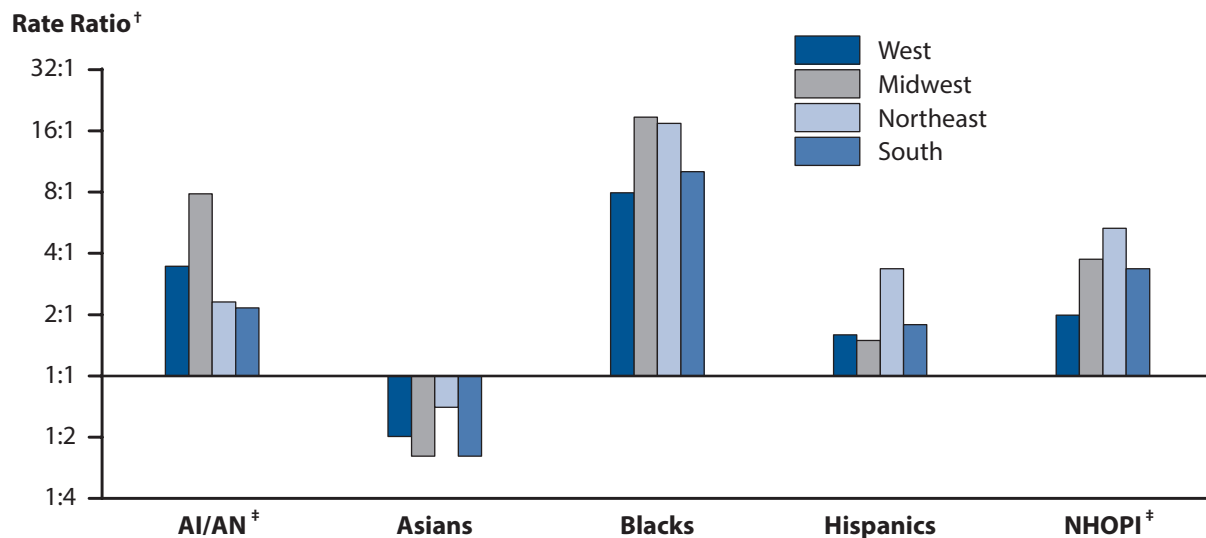
NOTE: Includes 43 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

Figure P. Gonorrhea — Rates of Reported Cases by Race/Ethnicity and Sex, United States, 2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.
NOTE: Includes 48 states reporting race/ethnicity data in Office of Management and Budget compliant formats in 2014 (see Section A1.5 in the Appendix).

Figure Q. Gonorrhea — Rate Ratios* by Race/Ethnicity and Region, United States, 2014



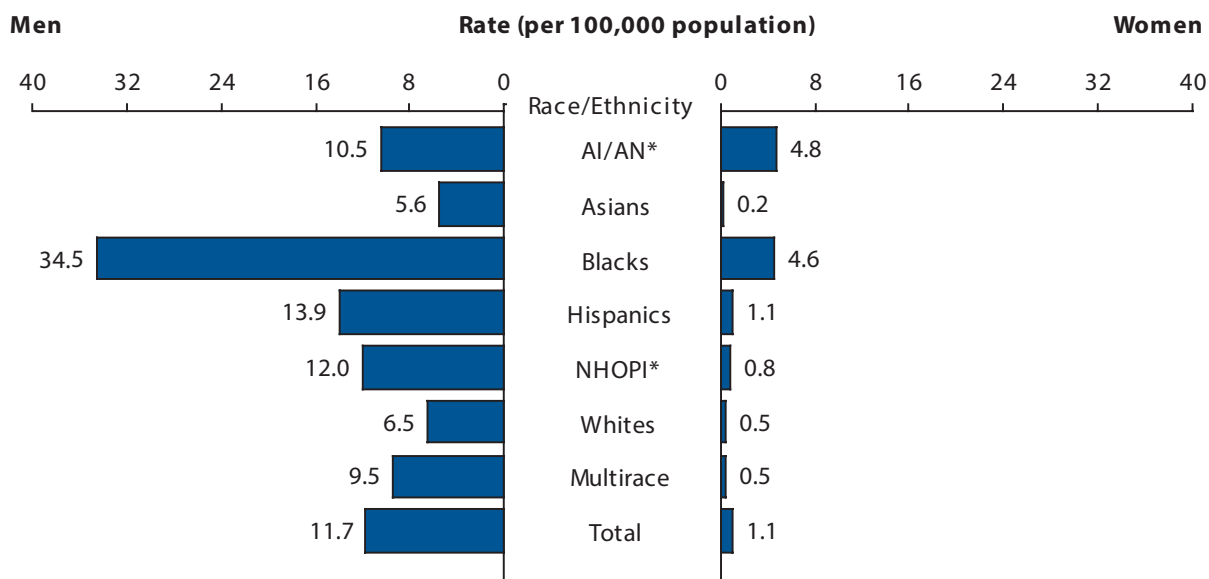
* Rate ratios are calculated as the rate of reported gonorrhea cases per 100,000 population for a given racial or ethnic minority population divided by the rate of reported gonorrhea cases per 100,000 population for non-Hispanic whites. Any population with a lower rate of reported cases of gonorrhea than the non-Hispanic white population will have a rate ratio of less than 1:1.

† Y-axis is log scale.

* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 48 states reporting race/ethnicity data in Office of Management and Budget compliant formats in 2014 (see Section A1.5 in the Appendix).

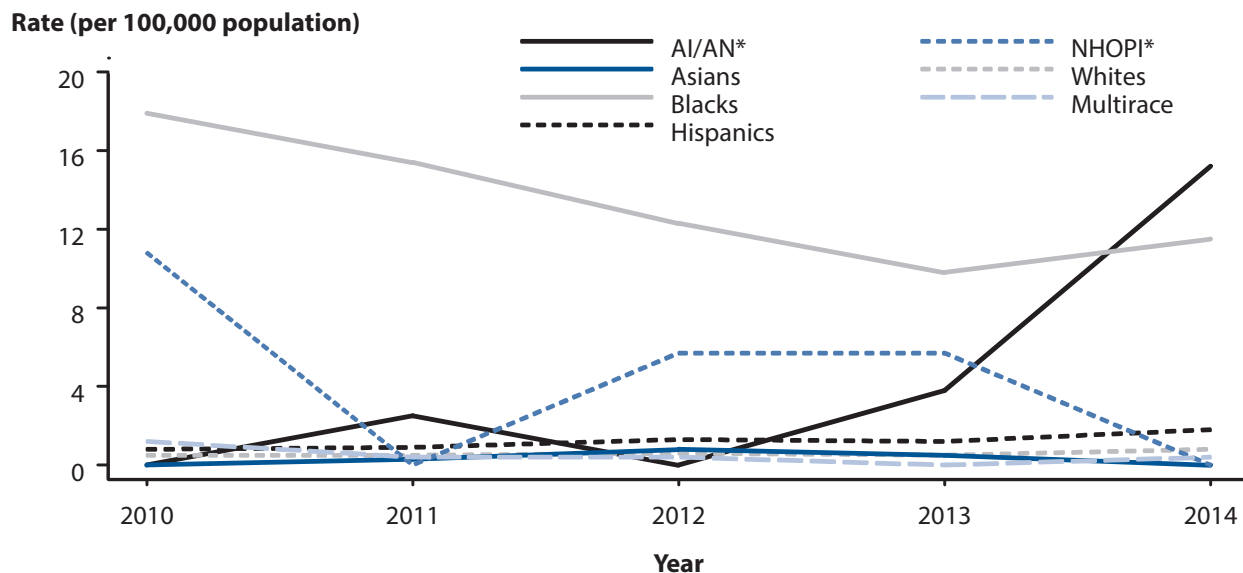
Figure R. Primary and Secondary Syphilis — Rates of Reported Cases by Race/Ethnicity and Sex, United States, 2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 49 states reporting race/ethnicity data in Office of Management and Budget compliant formats in 2014 (see Section A1.5 in the Appendix).

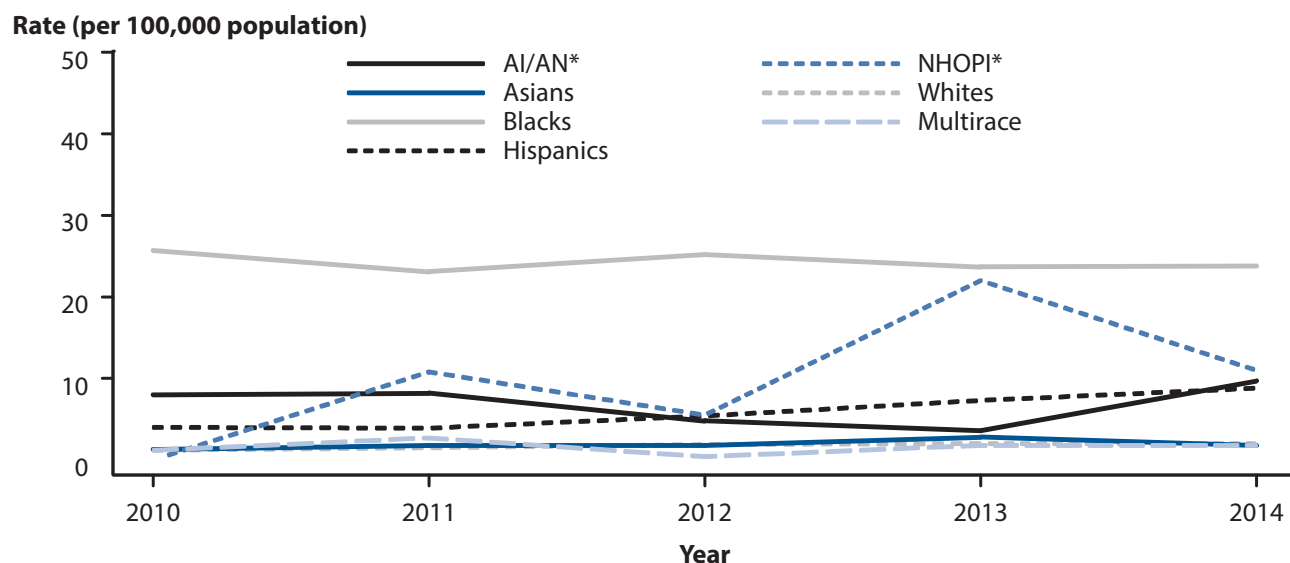
Figure S. Primary and Secondary Syphilis — Rates of Reported Cases Among Females Aged 15–19 Years by Race/Ethnicity, United States, 2010–2014



* AI/AN = American Indians/Alaska Natives; NHOPI = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 44 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

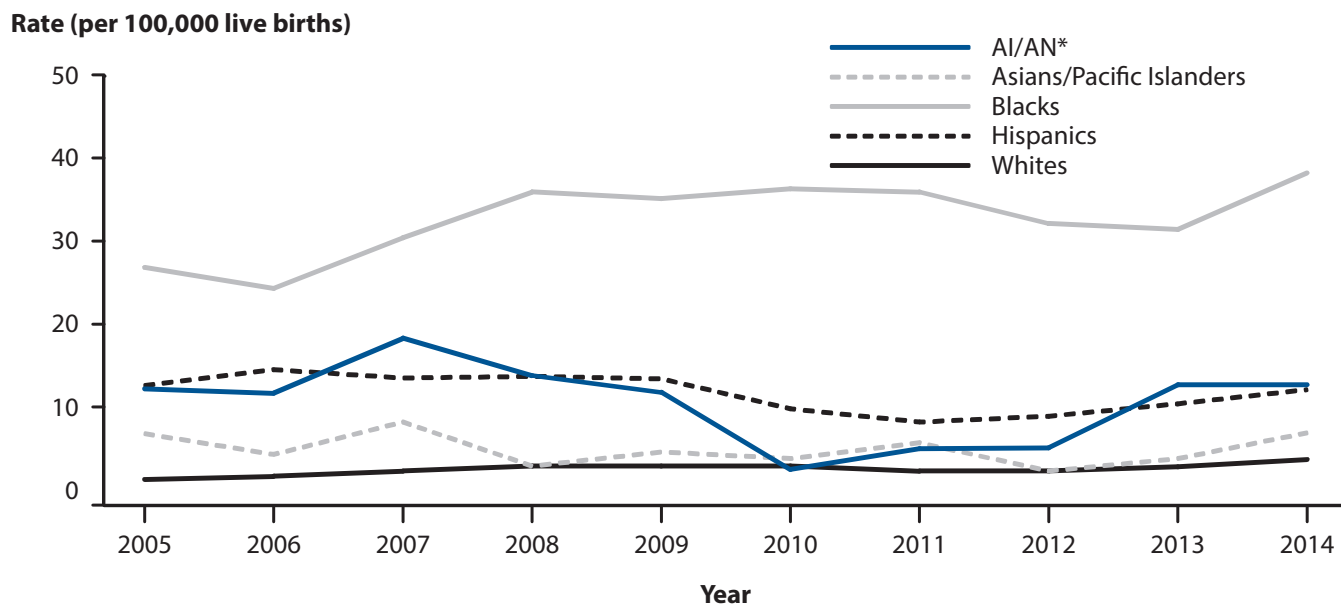
Figure T. Primary and Secondary Syphilis — Rates of Reported Cases Among Males Aged 15–19 Years, by Race/Ethnicity, United States, 2010–2014



* AI/AN = American Indians/Alaska Natives; NHOPi = Native Hawaiians/Other Pacific Islanders.

NOTE: Includes 44 states reporting race/ethnicity data in Office of Management and Budget compliant formats during 2010–2014 (see Section A1.5 in the Appendix).

Figure U. Congenital Syphilis — Rates of Reported Cases Among Infants, by Year of Birth and Mother's Race/Ethnicity, United States, 2005–2014



* AI/AN = American Indians/Alaska Natives.

NOTE: National Center for Health Statistics bridged race categories are presented to allow the display of data across several years. Cases missing maternal race/ethnicity information were excluded (< 1% of cases).

STDs in Men Who Have Sex with Men

Public Health Impact

Gay, bisexual, and other men who have sex with men (MSM) are at increased risk for STDs, including emergence of antimicrobial resistance when compared to women and exclusively heterosexual men.^{1–4} Because STDs, and the behaviors associated with acquiring them, increase the likelihood of acquiring and transmitting HIV infection, STD incidence among MSM may also be an indicator of higher risk for subsequent HIV infection.^{5,6}

Population-level factors such as limited or overlapping social and sexual networks are associated with higher rates of STDs, including HIV among MSM.⁷ Additionally, individual-level risk behaviors, such as number of lifetime sex partners, rate of partner exchange and frequency of unprotected sex, may contribute to rates of STDs.

MSM of lower economic status may be particularly vulnerable to poor health outcomes, especially if they belong to racial and ethnic minority populations.^{8,9} Among black MSM, factors such as community isolation and limited social support may influence sexual risk-taking. Similarly, for Hispanic men, the relationship between individual experiences of oppression (e.g., social discrimination and financial hardship) and risk for sexually transmitted infections in the United States has been documented.¹⁰

With the exception of reported syphilis cases, most nationally notifiable STD surveillance data do not include information on sexual behaviors; therefore, trends in STDs among MSM in the United States are based on findings from sentinel surveillance systems. Testing strategies are also evolving to include more extragenital screening, which may increase detection of asymptomatic infections. Until recently, testing for gonorrhea and chlamydia in MSM largely focused on detecting urethral infections, which are more likely to be symptomatic than pharyngeal or rectal infections.¹¹ Data from sentinel surveillance projects are presented in this section to provide information on STDs in MSM.

STD Surveillance Network (SSuN) — Monitoring Trends in Prevalence of STDs Among MSM Who Visit STD Clinics, 2014

The STD Surveillance Network (SSuN), established in 2005, is an ongoing collaboration of states and independently funded cities collecting enhanced clinical and behavioral information among patients attending

participating SSuN STD clinics.¹² Data for 2014 were obtained from 6 jurisdictions (including 26 STD clinics) continuously participating in SSuN since 2008. For data reported in this section, MSM were defined as men who either reported having one or more male sex partners or who self-reported as gay/homosexual or bisexual. MSW were defined as men who reported having sex with women only or who did not report the sex of their sex partner, but reported that they considered themselves straight/heterosexual. Additional information about SSuN can be found in Section A2.2 of the Appendix.

Gonorrhea and Chlamydial Infection

In 2014, the proportion of MSM who tested positive for gonorrhea and chlamydia at STD clinics varied by SSuN site (Figure V). A larger proportion of MSM who visited STD clinics tested positive for gonorrhea than tested positive for chlamydia.

Across the participating STD clinics, 18,568 MSM were tested for gonorrhea and 18,414 MSM were tested for chlamydia. The median site-specific gonorrhea prevalence among those tested was 19.2% (range by site: 14.5%–25.3%). The median site-specific chlamydia prevalence among those tested was 14.9% (range by site: 7.0%–17.9%). For this report, a person who tested positive for gonorrhea or chlamydia more than one time in a year was counted only once for each infection.

Co-infection of Primary and Secondary (P&S) Syphilis and HIV

Among MSM who presented to participating STD clinics with P&S syphilis infection in 2014, the proportion who were also infected with HIV ranged from 9.1% in Los Angeles to 53.2% in Baltimore (Figure W). The median site-specific proportion of MSM co-infected with HIV (41.9%) was similar to the proportion of co-infection in MSM observed in 2014 case report data (51.6%). P&S syphilis was identified by provider diagnosis, and HIV status was identified by laboratory report, self-report, or provider diagnosis.

HIV status and STDs

Among MSM visiting SSuN STD clinics, prevalence of STDs was higher among MSM living with HIV than among HIV-negative MSM (Figure X). The prevalence of P&S syphilis was 10.4% among MSM living with HIV and 3.5% among HIV-negative MSM. Among MSM living with HIV, urethral gonorrhea positivity

was 11.4%, pharyngeal gonorrhea positivity was 6.7%, and rectal gonorrhea positivity was 12.4% (compared to 8.6%, 7.4%, and 5.5%, respectively, among HIV-negative MSM). Among MSM living with HIV, urethral chlamydia positivity was 6.1% and rectal chlamydia positivity was 12.1% (compared to 5.7% and 7.5%, respectively, among HIV-negative MSM).

Nationally Notifiable Syphilis Surveillance Data

The number of reported cases of P&S syphilis among MSM has been increasing since at least 2000.^{3,14} Twenty-seven states reported sex of sex partner data for at least 70% of all cases of P&S syphilis each year during 2007–2014. Among these states, cases among MSM increased 8.8% during 2013–2014, and 47.9% during 2010–2014 (Figure 32). In 2014, MSM accounted for 82.9% of all male P&S syphilis cases with known information about sex of sex partners (Figure 41), and MSM accounted for more cases than MSW or women in all racial and ethnic groups (Figure 42). More information about syphilis can be found in the Syphilis section of the National Profile.

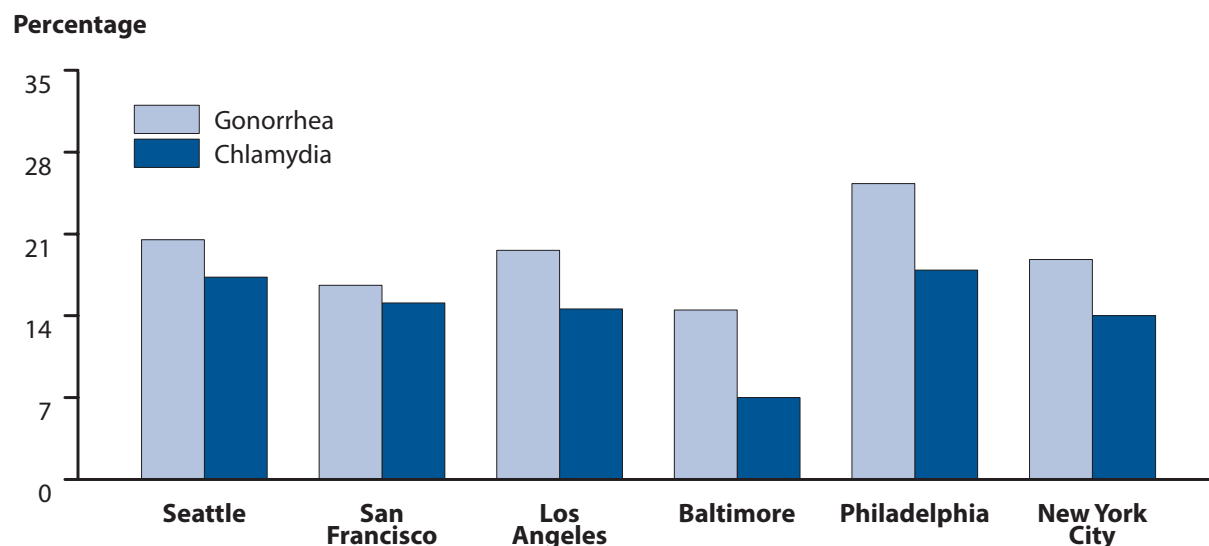
Gonococcal Isolate Surveillance Project (GISP)

GISP is a national sentinel surveillance system designed to monitor trends in antimicrobial susceptibilities of *N. gonorrhoeae* strains in the United States.¹⁵ Overall, the proportion of isolates from MSM in selected STD clinics from GISP sentinel sites has increased steadily, from 4.6% in 1990 to 37.1% in 2014 (Figure Y). The reason for this increase is unclear, but might reflect changes in the epidemiology of gonorrhea or in health care seeking behavior of men infected with gonorrhea. GISP has demonstrated that gonococcal isolates from MSM are more likely to exhibit antimicrobial resistance than isolates from MSW.⁴ During 2007–2014, the prevalence of elevated ceftriaxone MICs (≥ 0.125 $\mu\text{g/ml}$) was higher in isolates from MSM than from MSW (Figure Z).

More information on GISP can be found in the Gonorrhea section of the National Profile.

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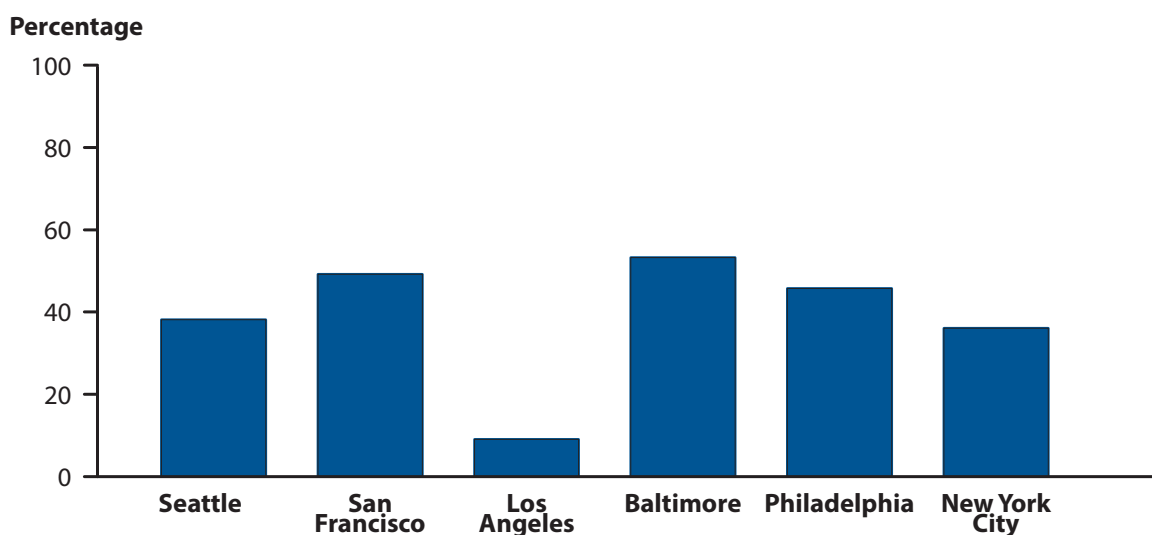
Figure V. Gonorrhea and Chlamydia — Proportion of MSM* Attending STD Clinics Testing Positive for Gonorrhea and Chlamydia, STD Surveillance Network (SSuN), 2014



* Among men who have who sex with men who were tested for gonorrhea and/or chlamydia.

NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) that contributed data for all of 2014.

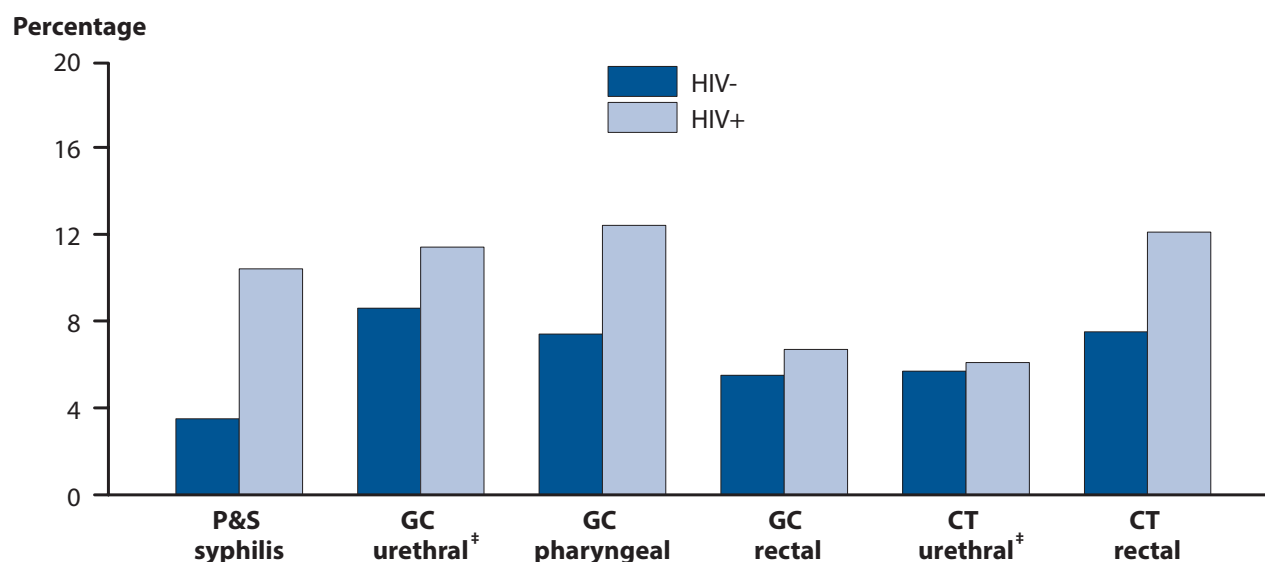
Figure W. Primary and Secondary Syphilis and HIV — Proportion of MSM* Attending STD Clinics with Primary and Secondary Syphilis Who are Co-infected with HIV, STD Surveillance Network (SSuN), 2014



* MSM = men who have sex with men.

NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) that contributed data for all of 2014.

Figure X. Proportion of MSM* Attending STD Clinics with Primary and Secondary Syphilis, Gonorrhea or Chlamydia by HIV Status†, STD Surveillance Network (SSuN), 2014



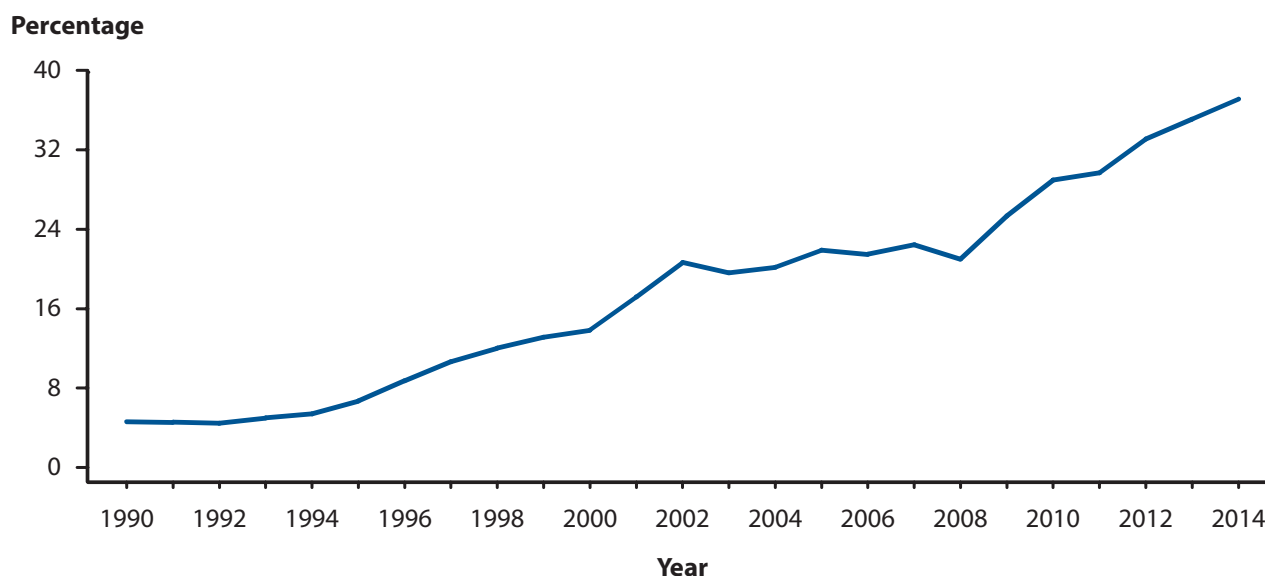
* MSM = men who have sex with men; P&S = primary and secondary syphilis; GC = gonorrhea; CT = chlamydia.

† Excludes all persons for whom there was no laboratory documentation or self-report of HIV status.

‡ GC urethral and CT urethral include results from both urethral and urine specimens.

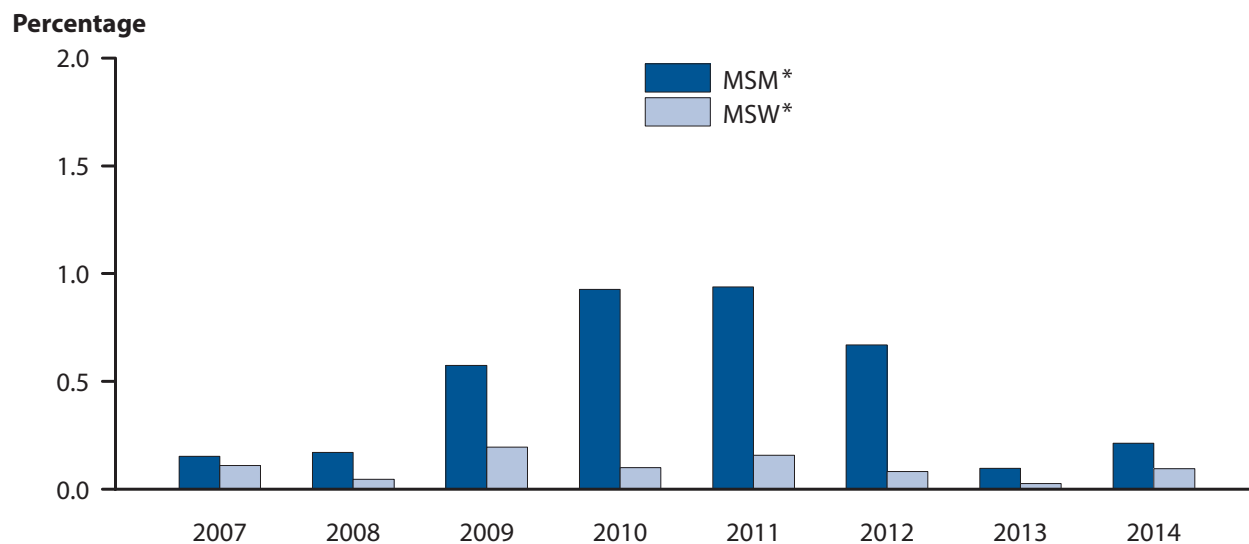
NOTE: Includes the six jurisdictions (Baltimore, Los Angeles, New York City, Philadelphia, San Francisco and Seattle) that contributed data for all of 2014.

Figure Y. *Neisseria gonorrhoeae* — Percentage of Urethral Isolates Obtained from MSM* Attending STD Clinics, Gonococcal Isolate Surveillance Project (GISP), 1990–2014



* MSM = men who have sex with men.

Figure Z. *Neisseria gonorrhoeae* — Percentage of Urethral Isolates with Elevated Ceftriaxone Minimum Inhibitory Concentrations (MICs) (≥ 0.125 $\mu\text{g/ml}$) by Reported Sex of Sex Partner, Gonococcal Isolate Surveillance Project (GISP), 2007–2014



* MSM = men who have sex with men; MSW = men who have sex with women only.

TABLES

TABLES

Table 1. Sexually Transmitted Diseases — Reported Cases and Rates of Reported Cases per 100,000 Population, United States, 1941–2014

| Year* | Syphilis | | | | | | | | | | | | | | | |
|-------|-------------------------|-------|-----------------------|------|--------------|-------|-----------------------------------|-------|------------|-------------------|-----------|-------|-----------|-------|-----------|------|
| | All Stages [†] | | Primary and Secondary | | Early Latent | | Late and Late Latent [‡] | | Congenital | | Chlamydia | | Gonorrhea | | Chancroid | |
| | Cases | Rate | Cases | Rate | Cases | Rate | Cases | Rate | Cases | Rate [§] | Cases | Rate | Cases | Rate | Cases | Rate |
| 1941 | 485,560 | 368.2 | 68,231 | 51.7 | 109,018 | 82.6 | 202,984 | 153.9 | 17,600 | 651.1 | NR | — | 193,468 | 146.7 | 3,384 | 2.5 |
| 1942 | 479,601 | 363.4 | 75,312 | 57.0 | 116,245 | 88.0 | 202,064 | 153.1 | 16,918 | 566.0 | NR | — | 212,403 | 160.9 | 5,477 | 4.1 |
| 1943 | 575,593 | 447.0 | 82,204 | 63.8 | 149,390 | 116.0 | 251,958 | 195.7 | 16,164 | 520.7 | NR | — | 275,070 | 213.6 | 8,354 | 6.4 |
| 1944 | 467,755 | 367.9 | 78,443 | 61.6 | 123,038 | 96.7 | 202,848 | 159.6 | 13,578 | 462.0 | NR | — | 300,676 | 236.5 | 7,878 | 6.1 |
| 1945 | 359,114 | 282.3 | 77,007 | 60.5 | 101,719 | 79.9 | 142,187 | 111.8 | 12,339 | 431.7 | NR | — | 287,181 | 225.8 | 5,515 | 4.3 |
| 1946 | 363,647 | 271.7 | 94,957 | 70.9 | 107,924 | 80.6 | 125,248 | 93.6 | 12,106 | 354.9 | NR | — | 368,020 | 275.0 | 7,091 | 5.2 |
| 1947 | 355,592 | 252.3 | 93,545 | 66.4 | 104,124 | 73.9 | 122,089 | 86.6 | 12,200 | 319.6 | NR | — | 380,666 | 270.0 | 9,515 | 6.7 |
| 1948 | 314,313 | 218.2 | 68,174 | 47.3 | 90,598 | 62.9 | 123,312 | 85.6 | 13,931 | 383.0 | NR | — | 345,501 | 239.8 | 7,661 | 5.3 |
| 1949 | 256,463 | 175.3 | 41,942 | 28.7 | 75,045 | 51.3 | 116,397 | 79.5 | 13,952 | 382.4 | NR | — | 317,950 | 217.3 | 6,707 | 4.6 |
| 1950 | 217,558 | 146.0 | 23,939 | 16.7 | 59,256 | 39.7 | 113,569 | 70.2 | 13,377 | 368.3 | NR | — | 286,746 | 192.5 | 4,977 | 3.3 |
| 1951 | 174,924 | 116.1 | 14,485 | 9.6 | 43,316 | 28.7 | 98,311 | 65.2 | 11,094 | 290.4 | NR | — | 254,470 | 168.9 | 4,233 | 2.8 |
| 1952 | 167,762 | 110.2 | 10,449 | 6.9 | 36,454 | 24.0 | 105,238 | 69.1 | 8,553 | 218.8 | NR | — | 244,957 | 160.8 | 3,738 | 2.5 |
| 1953 | 148,573 | 95.9 | 8,637 | 5.6 | 28,295 | 18.3 | 98,870 | 63.8 | 7,675 | 193.9 | NR | — | 238,340 | 153.9 | 3,338 | 2.2 |
| 1954 | 130,697 | 82.9 | 7,147 | 4.5 | 23,861 | 15.1 | 89,123 | 56.5 | 6,676 | 164.0 | NR | — | 242,050 | 153.5 | 3,003 | 1.9 |
| 1955 | 122,392 | 76.2 | 6,454 | 4.0 | 20,054 | 12.5 | 86,526 | 53.8 | 5,354 | 130.7 | NR | — | 236,197 | 147.0 | 2,649 | 1.7 |
| 1956 | 130,201 | 78.7 | 6,392 | 3.9 | 19,783 | 12.0 | 95,097 | 57.5 | 5,491 | 130.4 | NR | — | 224,346 | 135.7 | 2,135 | 1.3 |
| 1957 | 123,758 | 73.5 | 6,576 | 3.9 | 17,796 | 10.6 | 91,309 | 54.2 | 5,288 | 123.0 | NR | — | 214,496 | 127.4 | 1,637 | 1.0 |
| 1958 | 113,884 | 66.4 | 7,176 | 4.2 | 16,556 | 9.7 | 83,027 | 48.4 | 4,866 | 114.6 | NR | — | 232,386 | 135.6 | 1,595 | 0.9 |
| 1959 | 120,824 | 69.2 | 9,799 | 5.6 | 17,025 | 9.8 | 86,740 | 49.7 | 5,130 | 119.7 | NR | — | 240,254 | 137.6 | 1,537 | 0.9 |
| 1960 | 122,538 | 68.8 | 16,145 | 9.1 | 18,017 | 10.1 | 81,798 | 45.9 | 4,416 | 103.7 | NR | — | 258,933 | 145.4 | 1,680 | 0.9 |
| 1961 | 124,658 | 68.8 | 19,851 | 11.0 | 19,486 | 10.8 | 79,304 | 43.8 | 4,163 | 97.5 | NR | — | 264,158 | 145.8 | 1,438 | 0.8 |
| 1962 | 126,245 | 68.7 | 21,067 | 11.5 | 19,585 | 10.7 | 79,533 | 43.3 | 4,070 | 97.7 | NR | — | 263,714 | 143.6 | 1,344 | 0.7 |
| 1963 | 124,137 | 66.5 | 22,251 | 11.9 | 18,235 | 9.8 | 78,076 | 41.8 | 4,031 | 98.4 | NR | — | 278,289 | 149.0 | 1,220 | 0.7 |
| 1964 | 114,325 | 60.4 | 22,969 | 12.1 | 17,781 | 9.4 | 68,629 | 36.3 | 3,516 | 87.3 | NR | — | 300,666 | 158.9 | 1,247 | 0.7 |
| 1965 | 112,842 | 58.9 | 23,338 | 12.2 | 17,458 | 9.1 | 67,317 | 35.1 | 3,564 | 94.8 | NR | — | 324,925 | 169.5 | 982 | 0.5 |
| 1966 | 105,159 | 54.2 | 21,414 | 11.0 | 15,950 | 8.2 | 63,541 | 32.7 | 3,170 | 87.9 | NR | — | 351,738 | 181.2 | 838 | 0.4 |
| 1967 | 102,581 | 52.2 | 21,053 | 10.7 | 15,554 | 7.9 | 61,975 | 31.5 | 2,894 | 82.2 | NR | — | 404,836 | 205.9 | 784 | 0.4 |
| 1968 | 96,271 | 48.4 | 19,019 | 9.6 | 15,150 | 7.6 | 58,564 | 29.4 | 2,381 | 68.0 | NR | — | 464,543 | 233.4 | 845 | 0.4 |
| 1969 | 92,162 | 45.7 | 19,130 | 9.5 | 15,402 | 7.6 | 54,587 | 27.1 | 2,074 | 57.6 | NR | — | 534,872 | 265.4 | 1,104 | 0.5 |
| 1970 | 91,382 | 44.8 | 21,982 | 10.8 | 16,311 | 8.0 | 50,348 | 24.7 | 1,953 | 52.3 | NR | — | 600,072 | 294.2 | 1,416 | 0.7 |
| 1971 | 95,997 | 46.4 | 23,783 | 11.5 | 19,417 | 9.4 | 49,993 | 24.2 | 2,052 | 57.7 | NR | — | 670,268 | 324.1 | 1,320 | 0.6 |
| 1972 | 91,149 | 43.6 | 24,429 | 11.7 | 20,784 | 9.9 | 43,456 | 20.8 | 1,758 | 54.0 | NR | — | 767,215 | 366.6 | 1,414 | 0.7 |
| 1973 | 87,469 | 41.4 | 24,825 | 11.7 | 23,584 | 11.2 | 37,054 | 17.5 | 1,527 | 48.7 | NR | — | 842,621 | 398.7 | 1,165 | 0.6 |
| 1974 | 83,771 | 39.3 | 25,385 | 11.9 | 25,124 | 11.8 | 31,854 | 14.9 | 1,138 | 36.0 | NR | — | 906,121 | 424.7 | 945 | 0.4 |
| 1975 | 80,356 | 37.3 | 25,561 | 11.9 | 26,569 | 12.3 | 27,096 | 12.6 | 916 | 29.1 | NR | — | 999,937 | 464.1 | 700 | 0.3 |
| 1976 | 71,761 | 33.0 | 23,731 | 10.9 | 25,363 | 11.7 | 21,905 | 10.1 | 626 | 19.8 | NR | — | 1,001,994 | 460.6 | 628 | 0.3 |
| 1977 | 64,621 | 29.4 | 20,399 | 9.3 | 21,329 | 9.7 | 22,313 | 10.2 | 463 | 13.9 | NR | — | 1,002,219 | 456.0 | 455 | 0.2 |
| 1978 | 64,875 | 29.2 | 21,656 | 9.8 | 19,628 | 8.8 | 23,038 | 10.4 | 434 | 13.0 | NR | — | 1,013,436 | 456.3 | 521 | 0.2 |
| 1979 | 67,049 | 29.9 | 24,874 | 11.1 | 20,459 | 9.1 | 21,301 | 9.5 | 332 | 9.5 | NR | — | 1,004,058 | 447.1 | 840 | 0.4 |
| 1980 | 68,832 | 30.3 | 27,204 | 12.0 | 20,297 | 8.9 | 20,979 | 9.2 | 277 | 7.7 | NR | — | 1,004,029 | 442.1 | 788 | 0.3 |
| 1981 | 72,799 | 31.7 | 31,266 | 13.6 | 21,033 | 9.2 | 20,168 | 8.8 | 287 | 7.9 | NR | — | 990,864 | 431.8 | 850 | 0.4 |
| 1982 | 75,579 | 32.6 | 33,613 | 14.5 | 21,894 | 9.5 | 19,779 | 8.5 | 259 | 7.0 | NR | — | 960,633 | 414.7 | 1,392 | 0.6 |
| 1983 | 74,637 | 31.9 | 32,698 | 14.0 | 23,738 | 10.2 | 17,896 | 7.7 | 239 | 6.6 | NR | — | 900,435 | 385.1 | 847 | 0.4 |
| 1984 | 69,872 | 29.6 | 28,607 | 12.1 | 23,131 | 9.8 | 17,829 | 7.6 | 305 | 8.3 | 7,594 | 6.5 | 878,556 | 372.5 | 665 | 0.3 |
| 1985 | 67,563 | 28.4 | 27,131 | 11.4 | 21,689 | 9.1 | 18,414 | 7.7 | 329 | 8.7 | 25,848 | 17.4 | 911,419 | 383.0 | 2,067 | 0.9 |
| 1986 | 67,779 | 28.2 | 27,667 | 11.5 | 21,656 | 9.0 | 18,046 | 7.5 | 410 | 10.9 | 58,001 | 35.2 | 892,229 | 371.5 | 3,045 | 1.3 |
| 1987 | 87,286 | 36.0 | 35,585 | 14.7 | 28,233 | 11.7 | 22,988 | 9.5 | 480 | 12.6 | 91,913 | 50.8 | 787,532 | 325.0 | 4,986 | 2.1 |
| 1988 | 104,546 | 42.8 | 40,474 | 16.6 | 35,968 | 14.7 | 27,363 | 11.2 | 741 | 19.0 | 157,854 | 87.1 | 738,160 | 301.9 | 4,891 | 2.0 |
| 1989 | 115,089 | 46.6 | 45,826 | 18.6 | 45,394 | 18.4 | 22,032 | 8.9 | 1,837 | 45.5 | 200,904 | 102.5 | 733,294 | 297.1 | 4,697 | 1.9 |

Table 1. Sexually Transmitted Diseases — Reported Cases and Rates of Reported Cases per 100,000 Population, United States, 1941–2014 (continued)

| Year* | Syphilis | | | | | | | | | | | | | | | | |
|-------|-----------------------|-------|--------|-------|-----------------------|-------|---------|-------|------------|-------|-----------|-------|-----------|-------|-----------|-------|------|
| | Primary and Secondary | | | | Late and Late Latent† | | | | Congenital | | Chlamydia | | Gonorrhea | | Chancroid | | |
| | All Stages† | | | | Early Latent | | Latent‡ | | | | | | | | | | |
| Cases | Rate | Cases | Rate | Cases | Rate | Cases | Rate | Cases | Rate§ | Cases | Rate | Cases | Rate | Cases | Rate | Cases | Rate |
| 1990 | 135,590 | 54.3 | 50,578 | 20.3 | 55,397 | 22.2 | 25,750 | 10.3 | 3,865 | 92.9 | 323,663 | 160.2 | 690,042 | 276.4 | 4,212 | 1.7 | |
| 1991 | 128,719 | 50.9 | 42,950 | 17.0 | 53,855 | 21.3 | 27,490 | 10.9 | 4,424 | 107.6 | 381,228 | 179.7 | 621,918 | 245.8 | 3,476 | 1.4 | |
| 1992 | 114,730 | 44.7 | 34,009 | 13.3 | 49,929 | 19.5 | 26,725 | 10.4 | 4,067 | 100.0 | 409,694 | 182.3 | 502,858 | 196.0 | 1,906 | 0.7 | |
| 1993 | 102,612 | 39.5 | 26,527 | 10.2 | 41,919 | 16.1 | 30,746 | 11.8 | 3,420 | 85.5 | 405,332 | 178.0 | 444,649 | 171.1 | 1,292 | 0.5 | |
| 1994 | 82,713 | 31.4 | 20,641 | 7.8 | 32,017 | 12.2 | 27,603 | 10.5 | 2,452 | 62.0 | 451,785 | 192.5 | 419,602 | 163.9 | 782 | 0.3 | |
| 1995 | 69,359 | 26.0 | 16,543 | 6.2 | 26,657 | 10.0 | 24,296 | 9.1 | 1,863 | 47.8 | 478,577 | 187.8 | 392,651 | 147.5 | 607 | 0.2 | |
| 1996 | 53,240 | 19.8 | 11,405 | 4.2 | 20,187 | 7.5 | 20,366 | 7.6 | 1,282 | 32.9 | 492,631 | 190.6 | 328,169 | 121.8 | 386 | 0.1 | |
| 1997 | 46,716 | 17.1 | 8,556 | 3.1 | 16,631 | 6.1 | 20,447 | 7.5 | 1,082 | 27.9 | 537,904 | 205.5 | 327,665 | 120.2 | 246 | 0.1 | |
| 1998 | 38,289 | 13.9 | 7,007 | 2.5 | 12,696 | 4.6 | 17,743 | 6.4 | 843 | 21.4 | 614,250 | 231.8 | 356,492 | 129.2 | 189 | 0.1 | |
| 1999 | 35,386 | 12.7 | 6,617 | 2.4 | 11,534 | 4.1 | 16,655 | 6.0 | 580 | 14.6 | 662,647 | 247.2 | 360,813 | 129.3 | 110 | 0.0 | |
| 2000 | 31,618 | 11.2 | 5,979 | 2.1 | 9,465 | 3.4 | 15,594 | 5.5 | 580 | 14.3 | 709,452 | 251.4 | 363,136 | 128.7 | 78 | 0.0 | |
| 2001 | 32,286 | 11.3 | 6,103 | 2.1 | 8,701 | 3.0 | 16,976 | 5.9 | 506 | 12.6 | 783,242 | 274.5 | 361,705 | 126.8 | 38 | 0.0 | |
| 2002 | 32,919 | 11.4 | 6,862 | 2.4 | 8,429 | 2.9 | 17,168 | 6.0 | 460 | 11.4 | 834,555 | 289.4 | 351,852 | 122.0 | 48 | 0.0 | |
| 2003 | 34,289 | 11.8 | 7,177 | 2.5 | 8,361 | 2.9 | 18,319 | 6.3 | 432 | 10.6 | 877,478 | 301.7 | 335,104 | 115.2 | 54 | 0.0 | |
| 2004 | 33,423 | 11.4 | 7,980 | 2.7 | 7,768 | 2.6 | 17,300 | 5.9 | 375 | 9.1 | 929,462 | 316.5 | 330,132 | 112.4 | 30 | 0.0 | |
| 2005 | 33,288 | 11.2 | 8,724 | 2.9 | 8,176 | 2.8 | 16,049 | 5.4 | 339 | 8.2 | 976,445 | 329.4 | 339,593 | 114.6 | 17 | 0.0 | |
| 2006 | 36,958 | 12.3 | 9,756 | 3.3 | 9,186 | 3.1 | 17,644 | 5.9 | 372 | 8.7 | 1,030,911 | 344.3 | 358,366 | 119.7 | 19 | 0.0 | |
| 2007 | 40,925 | 13.6 | 11,466 | 3.8 | 10,768 | 3.6 | 18,256 | 6.1 | 435 | 10.1 | 1,108,374 | 367.5 | 355,991 | 118.0 | 23 | 0.0 | |
| 2008 | 46,292 | 15.2 | 13,500 | 4.4 | 12,401 | 4.1 | 19,945 | 6.6 | 446 | 10.5 | 1,210,523 | 398.1 | 336,742 | 110.7 | 25 | 0.0 | |
| 2009 | 44,832 | 14.6 | 13,997 | 4.6 | 13,066 | 4.3 | 17,338 | 5.6 | 431 | 10.4 | 1,244,180 | 405.3 | 301,174 | 98.1 | 28 | 0.0 | |
| 2010 | 45,844 | 14.8 | 13,774 | 4.5 | 13,604 | 4.4 | 18,079 | 5.9 | 387 | 9.7 | 1,307,893 | 423.6 | 309,341 | 100.2 | 24 | 0.0 | |
| 2011 | 46,040 | 14.8 | 13,970 | 4.5 | 13,136 | 4.2 | 18,576 | 6.0 | 358 | 9.1 | 1,412,791 | 453.4 | 321,849 | 103.3 | 8 | 0.0 | |
| 2012 | 49,915 | 15.9 | 15,667 | 5.0 | 14,503 | 4.6 | 19,411 | 6.2 | 334 | 8.4 | 1,422,976 | 453.3 | 334,826 | 106.7 | 15 | 0.0 | |
| 2013 | 56,482 | 17.9 | 17,375 | 5.5 | 16,929 | 5.4 | 21,819 | 6.9 | 359 | 9.1 | 1,401,906 | 443.5 | 333,004 | 105.3 | 10 | 0.0 | |
| 2014 | 63,450 | 20.1 | 19,999 | 6.3 | 19,452 | 6.2 | 23,541 | 7.4 | 458 | 11.6 | 1,441,789 | 456.1 | 350,062 | 110.7 | 6 | 0.0 | |

* For 1941–1946, data were reported for the federal fiscal year ending June 30 of the year indicated. From 1947 to the present, data were reported for the calendar year ending December 31. For 1941–1958, data for Alaska and Hawaii were not included.

† Includes stage of syphilis not stated.

‡ Late and late latent syphilis includes late latent syphilis, latent syphilis of unknown duration, neurosyphilis, late syphilis with clinical manifestations other than neurosyphilis, and late syphilis with clinical manifestations (including late benign syphilis and cardiovascular syphilis).

§ Rates include all cases of congenitally acquired syphilis per 100,000 live births. As of 1995, cases of congenital syphilis are obtained in hardcopy and electronic format on the basis of case reporting form CDC 73.126.

NR = No report.

NOTE: Adjustments to the number of cases reported from state health departments were made for hardcopy forms and for electronic data submissions through June 10, 2015. The number of cases and the rates shown here supersede those published in previous reports. See Section A1.1 in the Appendix for more information. Cases and rates shown in this table exclude the outlying areas of Guam, Puerto Rico, and Virgin Islands.

Table 2. Chlamydia — Reported Cases and Rates of Reported Cases by State, Ranked by Rates, United States, 2014

| Rank* | State | Cases | Rate per 100,000 Population |
|-------|--------------------|------------------|-----------------------------|
| 1 | Alaska | 5,789 | 787.5 |
| 2 | Mississippi | 19,605 | 655.4 |
| 3 | Louisiana | 28,955 | 626.0 |
| 4 | Alabama | 29,010 | 600.2 |
| 5 | South Carolina | 28,087 | 588.2 |
| 6 | New Mexico | 11,558 | 554.3 |
| 7 | Oklahoma | 20,662 | 536.6 |
| 8 | Arkansas | 15,605 | 527.3 |
| 9 | Georgia | 51,945 | 519.9 |
| 10 | Illinois | 66,536 | 516.5 |
| 11 | New York | 98,814 | 502.8 |
| 12 | Texas | 131,219 | 496.1 |
| 13 | South Dakota | 4,166 | 493.1 |
| 14 | Arizona | 32,397 | 488.9 |
| 15 | Delaware | 4,473 | 483.2 |
| 16 | North Carolina | 47,147 | 478.7 |
| 17 | North Dakota | 3,451 | 477.1 |
| 18 | Ohio | 54,858 | 474.1 |
| 19 | Tennessee | 30,793 | 474.0 |
| 20 | Missouri | 27,981 | 462.9 |
| 21 | Maryland | 27,424 | 462.6 |
| 22 | California | 176,308 | 459.9 |
| 23 | Hawaii | 6,419 | 457.2 |
| | U.S. TOTAL† | 1,441,789 | 456.1 |
| 24 | Michigan | 44,256 | 447.2 |
| 25 | Virginia | 36,048 | 436.4 |
| 26 | Indiana | 28,519 | 434.0 |
| 27 | Florida | 84,194 | 430.6 |
| 28 | Nevada | 11,841 | 424.4 |
| 29 | Colorado | 21,863 | 415.0 |
| 30 | Rhode Island | 4,349 | 413.6 |
| 31 | Montana | 4,193 | 413.0 |
| 32 | Wisconsin | 23,154 | 403.2 |
| 33 | Kentucky | 17,664 | 401.9 |
| 34 | Nebraska | 7,499 | 401.3 |
| 35 | Pennsylvania | 50,536 | 395.6 |
| 36 | Oregon | 15,508 | 394.6 |
| 37 | Kansas | 11,116 | 384.1 |
| 38 | Iowa | 11,804 | 382.0 |
| 39 | Washington | 26,577 | 381.2 |
| 40 | Connecticut | 13,382 | 372.1 |
| 41 | Minnesota | 19,907 | 367.3 |
| 42 | Vermont | 2,237 | 357.0 |
| 43 | Wyoming | 1,972 | 338.4 |
| 44 | Idaho | 5,442 | 337.6 |
| 45 | New Jersey | 29,904 | 336.0 |
| 46 | Massachusetts | 21,271 | 317.8 |
| 47 | Utah | 8,223 | 283.5 |
| 48 | New Hampshire | 3,586 | 271.0 |
| 49 | Maine | 3,530 | 265.8 |
| 50 | West Virginia | 4,719 | 254.5 |

* States were ranked by rate, then by case count, then in alphabetical order, with rates shown rounded to the nearest tenth.

† Total includes cases reported by the District of Columbia with 5,293 cases and a rate of 818.8, but excludes outlying areas (Guam with 839 cases and rate of 523.1, Puerto Rico with 4,899 cases and rate of 135.5, and Virgin Islands with 791 cases and rate of 755.2).

Table 3. Chlamydia — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 27,041 | 29,626 | 30,621 | 29,464 | 29,010 | 565.7 | 616.9 | 635.0 | 609.6 | 600.2 |
| Alaska | 6,019 | 5,739 | 5,462 | 5,774 | 5,789 | 847.5 | 794.1 | 746.7 | 785.4 | 787.5 |
| Arizona | 26,861 | 29,251 | 30,444 | 30,564 | 32,397 | 420.2 | 451.2 | 464.6 | 461.2 | 488.9 |
| Arkansas | 15,424 | 16,052 | 16,611 | 15,447 | 15,605 | 529.0 | 546.4 | 563.3 | 522.0 | 527.3 |
| California | 150,443 | 166,773 | 167,695 | 167,346 | 176,308 | 403.8 | 442.5 | 440.8 | 436.6 | 459.9 |
| Colorado | 19,447 | 21,811 | 21,631 | 20,386 | 21,863 | 386.7 | 426.3 | 417.0 | 387.0 | 415.0 |
| Connecticut | 12,649 | 13,649 | 13,065 | 12,775 | 13,382 | 353.9 | 381.2 | 363.9 | 355.2 | 372.1 |
| Delaware | 4,464 | 4,508 | 4,438 | 5,213 | 4,473 | 497.1 | 496.9 | 483.9 | 563.1 | 483.2 |
| District of Columbia | 5,589 | 6,585 | 6,808 | 6,414 | 5,293 | 928.8 | 1,065.5 | 1,076.7 | 992.2 | 818.8 |
| Florida | 74,744 | 76,033 | 77,644 | 80,182 | 84,194 | 397.5 | 399.0 | 401.9 | 410.1 | 430.6 |
| Georgia | 45,147 | 54,403 | 52,418 | 51,070 | 51,945 | 466.0 | 554.3 | 528.4 | 511.1 | 519.9 |
| Hawaii | 6,015 | 6,001 | 6,340 | 6,640 | 6,419 | 442.2 | 436.5 | 455.4 | 472.9 | 457.2 |
| Idaho | 4,208 | 4,699 | 4,550 | 5,428 | 5,442 | 268.4 | 296.5 | 285.1 | 336.7 | 337.6 |
| Illinois | 60,672 | 64,939 | 67,701 | 63,797 | 66,536 | 472.9 | 504.6 | 525.8 | 495.2 | 516.5 |
| Indiana | 22,825 | 27,801 | 29,505 | 28,023 | 28,519 | 352.0 | 426.6 | 451.3 | 426.5 | 434.0 |
| Iowa | 10,542 | 10,705 | 11,377 | 10,953 | 11,804 | 346.1 | 349.6 | 370.1 | 354.4 | 382.0 |
| Kansas | 9,601 | 10,598 | 11,135 | 11,012 | 11,116 | 336.5 | 369.1 | 385.8 | 380.5 | 384.1 |
| Kentucky | 16,376 | 16,629 | 17,273 | 17,134 | 17,664 | 377.4 | 380.6 | 394.3 | 389.8 | 401.9 |
| Louisiana | 29,151 | 31,614 | 27,353 | 28,739 | 28,955 | 643.0 | 691.0 | 594.4 | 621.3 | 626.0 |
| Maine | 2,586 | 3,094 | 3,413 | 3,438 | 3,530 | 194.7 | 232.9 | 256.8 | 258.8 | 265.8 |
| Maryland | 26,192 | 27,212 | 26,534 | 26,723 | 27,424 | 453.7 | 466.9 | 450.9 | 450.7 | 462.6 |
| Massachusetts | 21,080 | 22,764 | 23,550 | 23,210 | 21,271 | 321.9 | 345.6 | 354.3 | 346.8 | 317.8 |
| Michigan | 49,478 | 49,568 | 47,566 | 44,835 | 44,256 | 500.6 | 501.9 | 481.3 | 453.1 | 447.2 |
| Minnesota | 15,294 | 16,902 | 18,056 | 18,742 | 19,907 | 288.4 | 316.2 | 335.7 | 345.8 | 367.3 |
| Mississippi | 21,417 | 21,216 | 23,054 | 17,464 | 19,605 | 721.8 | 712.3 | 772.3 | 583.8 | 655.4 |
| Missouri | 26,049 | 27,887 | 27,835 | 27,328 | 27,981 | 435.0 | 464.0 | 462.2 | 452.1 | 462.9 |
| Montana | 3,082 | 3,406 | 3,827 | 3,818 | 4,193 | 311.5 | 341.2 | 380.7 | 376.1 | 413.0 |
| Nebraska | 5,114 | 6,780 | 6,748 | 7,301 | 7,499 | 280.0 | 368.0 | 363.7 | 390.7 | 401.3 |
| Nevada | 9,666 | 10,507 | 11,137 | 11,781 | 11,841 | 357.9 | 385.8 | 403.7 | 422.2 | 424.4 |
| New Hampshire | 2,462 | 3,010 | 3,072 | 3,119 | 3,586 | 187.0 | 228.3 | 232.6 | 235.7 | 271.0 |
| New Jersey | 26,142 | 26,209 | 27,271 | 28,327 | 29,904 | 297.3 | 297.1 | 307.6 | 318.3 | 336.0 |
| New Mexico | 11,706 | 11,374 | 11,898 | 12,249 | 11,558 | 568.5 | 546.2 | 570.5 | 587.4 | 554.3 |
| New York | 99,920 | 102,763 | 100,546 | 95,803 | 98,814 | 515.6 | 527.9 | 513.8 | 487.5 | 502.8 |
| North Carolina | 42,048 | 54,819 | 50,596 | 48,416 | 47,147 | 441.0 | 567.7 | 518.8 | 491.6 | 478.7 |
| North Dakota | 2,404 | 2,445 | 2,908 | 2,932 | 3,451 | 357.4 | 357.5 | 415.6 | 405.3 | 477.1 |
| Ohio | 51,150 | 52,653 | 53,141 | 53,121 | 54,858 | 443.4 | 456.1 | 460.3 | 459.1 | 474.1 |
| Oklahoma | 14,302 | 14,596 | 16,843 | 18,278 | 20,662 | 381.2 | 385.0 | 441.5 | 474.7 | 536.6 |
| Oregon | 12,352 | 13,643 | 13,454 | 14,181 | 15,508 | 322.4 | 352.4 | 345.0 | 360.8 | 394.6 |
| Pennsylvania | 47,518 | 52,884 | 54,993 | 52,056 | 50,536 | 374.1 | 415.0 | 430.9 | 407.5 | 395.6 |
| Rhode Island | 3,480 | 4,146 | 4,313 | 4,312 | 4,349 | 330.6 | 394.4 | 410.6 | 410.1 | 413.6 |
| South Carolina | 26,525 | 28,932 | 27,149 | 25,594 | 28,087 | 573.5 | 618.3 | 574.7 | 536.0 | 588.2 |
| South Dakota | 3,192 | 3,409 | 3,924 | 3,927 | 4,166 | 392.1 | 413.7 | 470.9 | 464.8 | 493.1 |
| Tennessee | 28,327 | 31,105 | 32,525 | 30,370 | 30,793 | 446.4 | 485.8 | 503.8 | 467.5 | 474.0 |
| Texas | 119,872 | 124,882 | 127,036 | 129,861 | 131,219 | 476.7 | 486.4 | 487.5 | 491.0 | 496.1 |
| Utah | 6,690 | 7,086 | 7,615 | 7,535 | 8,223 | 242.1 | 251.5 | 266.7 | 259.7 | 283.5 |
| Vermont | 1,257 | 1,483 | 1,724 | 1,842 | 2,237 | 200.9 | 236.7 | 275.4 | 294.0 | 357.0 |
| Virginia | 30,797 | 36,314 | 34,963 | 33,316 | 36,048 | 384.9 | 448.5 | 427.1 | 403.3 | 436.4 |
| Washington | 21,348 | 23,280 | 24,596 | 24,950 | 26,577 | 317.5 | 340.8 | 356.6 | 357.9 | 381.2 |
| West Virginia | 3,876 | 4,295 | 4,790 | 5,139 | 4,719 | 209.2 | 231.5 | 258.2 | 277.1 | 254.5 |
| Wisconsin | 23,236 | 24,619 | 23,726 | 23,572 | 23,154 | 408.6 | 431.0 | 414.3 | 410.5 | 403.2 |
| Wyoming | 2,113 | 2,092 | 2,102 | 2,005 | 1,972 | 374.9 | 368.2 | 364.7 | 344.1 | 338.4 |
| U.S. TOTAL | 1,307,893 | 1,412,791 | 1,422,976 | 1,401,906 | 1,441,789 | 423.6 | 453.4 | 453.3 | 443.5 | 456.1 |
| Northeast | 217,094 | 230,002 | 231,947 | 224,882 | 227,609 | 392.5 | 414.3 | 416.0 | 402.0 | 406.9 |
| Midwest | 279,557 | 298,306 | 303,622 | 295,543 | 303,247 | 417.7 | 444.2 | 451.0 | 437.5 | 448.9 |
| South | 531,292 | 578,821 | 576,656 | 568,824 | 582,843 | 463.8 | 498.8 | 491.8 | 480.5 | 492.3 |
| West | 279,950 | 305,662 | 310,751 | 312,657 | 328,090 | 389.1 | 419.5 | 422.3 | 421.1 | 441.8 |
| Guam | 899 | 1,071 | 1,031 | 937 | 839 | 563.9 | 671.1 | 644.7 | 584.2 | 523.1 |
| Puerto Rico | 5,960 | 5,634 | 6,227 | 5,969 | 4,899 | 160.0 | 152.0 | 169.8 | 165.1 | 135.5 |
| Virgin Islands | 609 | 820 | 802 | 775 | 791 | 573.1 | 775.2 | 761.8 | 739.9 | 755.2 |
| OUTLYING AREAS | 7,468 | 7,525 | 8,060 | 7,681 | 6,529 | 187.1 | 189.4 | 205.0 | 198.0 | 168.3 |
| TOTAL | 1,315,361 | 1,420,316 | 1,431,036 | 1,409,587 | 1,448,318 | 420.6 | 450.1 | 450.2 | 440.5 | 452.6 |

Table 4. Chlamydia Among Women — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|----------------|------------------|------------------|----------------|------------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 20,030 | 21,217 | 22,099 | 21,096 | 20,619 | 814.4 | 857.9 | 889.8 | 847.8 | 828.6 |
| Alaska | 3,960 | 3,801 | 3,670 | 3,899 | 3,940 | 1,162.6 | 1,093.7 | 1,047.9 | 1,115.4 | 1,127.1 |
| Arizona | 19,529 | 21,196 | 22,087 | 21,950 | 22,747 | 607.2 | 650.5 | 670.4 | 658.9 | 682.8 |
| Arkansas | 11,303 | 11,921 | 12,247 | 11,334 | 11,625 | 761.5 | 797.3 | 816.1 | 752.7 | 772.0 |
| California | 102,645 | 114,657 | 114,396 | 112,460 | 115,339 | 547.8 | 605.3 | 598.2 | 583.7 | 598.6 |
| Colorado | 14,188 | 15,751 | 15,476 | 14,336 | 14,906 | 565.6 | 617.8 | 598.9 | 546.8 | 568.5 |
| Connecticut | 9,223 | 9,824 | 9,464 | 9,210 | 9,512 | 502.8 | 535.1 | 514.2 | 500.0 | 516.4 |
| Delaware | 3,296 | 3,191 | 3,181 | 3,714 | 3,084 | 711.9 | 682.9 | 672.9 | 777.3 | 645.5 |
| District of Columbia | 3,782 | 4,357 | 4,426 | 3,992 | 3,709 | 1,191.2 | 1,337.4 | 1,328.0 | 1,173.4 | 1,090.2 |
| Florida | 53,318 | 54,262 | 55,628 | 56,688 | 58,800 | 554.7 | 557.3 | 563.6 | 567.4 | 588.6 |
| Georgia | 32,863 | 39,829 | 37,456 | 36,559 | 36,871 | 662.8 | 794.6 | 738.9 | 715.3 | 721.4 |
| Hawaii | 4,340 | 4,314 | 4,452 | 4,646 | 4,469 | 639.1 | 629.8 | 644.9 | 669.0 | 643.5 |
| Idaho | 3,014 | 3,345 | 3,206 | 3,885 | 3,895 | 385.3 | 422.7 | 402.2 | 482.6 | 483.8 |
| Illinois | 44,598 | 46,728 | 48,575 | 45,764 | 46,516 | 682.1 | 712.9 | 740.9 | 698.1 | 709.6 |
| Indiana | 16,344 | 20,065 | 21,633 | 20,307 | 20,586 | 496.2 | 606.2 | 651.8 | 609.0 | 617.3 |
| Iowa | 7,612 | 7,647 | 8,194 | 7,895 | 8,385 | 494.9 | 495.0 | 528.7 | 507.1 | 538.5 |
| Kansas | 7,449 | 8,158 | 8,440 | 8,323 | 8,276 | 518.1 | 564.4 | 581.8 | 573.2 | 570.0 |
| Kentucky | 11,859 | 11,990 | 12,366 | 12,086 | 12,404 | 538.0 | 540.2 | 556.3 | 541.5 | 555.8 |
| Louisiana | 20,564 | 23,390 | 20,507 | 21,258 | 21,297 | 888.6 | 1,001.1 | 872.7 | 900.2 | 901.8 |
| Maine | 1,814 | 2,149 | 2,420 | 2,404 | 2,478 | 267.4 | 316.9 | 356.5 | 354.5 | 365.4 |
| Maryland | 19,827 | 20,004 | 19,295 | 19,049 | 19,162 | 664.9 | 665.1 | 635.9 | 623.7 | 627.4 |
| Massachusetts | 14,753 | 15,744 | 16,319 | 15,851 | 14,000 | 436.4 | 463.3 | 476.4 | 459.7 | 406.0 |
| Michigan | 36,431 | 36,367 | 34,510 | 32,056 | 31,470 | 723.5 | 723.0 | 685.7 | 636.5 | 624.9 |
| Minnesota | 10,965 | 11,827 | 12,568 | 12,950 | 13,484 | 410.4 | 439.7 | 464.3 | 474.9 | 494.4 |
| Mississippi | 15,958 | 15,697 | 16,771 | 12,676 | 14,008 | 1,045.7 | 1,024.6 | 1,092.1 | 824.9 | 911.6 |
| Missouri | 18,867 | 20,097 | 19,745 | 19,303 | 19,549 | 617.5 | 655.4 | 643.0 | 626.7 | 634.7 |
| Montana | 2,194 | 2,390 | 2,655 | 2,701 | 2,878 | 445.3 | 480.9 | 530.8 | 534.5 | 569.5 |
| Nebraska | 3,561 | 4,783 | 4,628 | 4,945 | 5,110 | 387.0 | 515.7 | 495.9 | 526.8 | 544.4 |
| Nevada | 6,897 | 7,215 | 7,628 | 8,183 | 8,039 | 515.9 | 534.9 | 557.7 | 591.0 | 580.6 |
| New Hampshire | 1,808 | 2,184 | 2,150 | 2,187 | 2,452 | 271.0 | 327.3 | 321.6 | 326.5 | 366.1 |
| New Jersey | 20,128 | 19,886 | 20,231 | 20,771 | 21,556 | 446.1 | 439.9 | 445.5 | 456.0 | 473.2 |
| New Mexico | 8,718 | 8,309 | 8,724 | 9,033 | 8,395 | 836.9 | 789.7 | 828.6 | 858.9 | 798.2 |
| New York | 68,693 | 70,466 | 68,337 | 64,454 | 65,114 | 686.9 | 702.3 | 677.9 | 637.2 | 643.7 |
| North Carolina | 33,836 | 42,992 | 39,140 | 37,146 | 35,494 | 691.9 | 868.1 | 782.9 | 735.9 | 703.2 |
| North Dakota | 1,577 | 1,603 | 1,898 | 1,923 | 2,202 | 474.0 | 474.7 | 551.9 | 544.2 | 623.1 |
| Ohio | 38,636 | 38,914 | 38,879 | 38,293 | 39,033 | 654.4 | 658.9 | 658.8 | 647.8 | 660.3 |
| Oklahoma | 10,297 | 10,349 | 12,341 | 13,065 | 14,855 | 543.6 | 540.8 | 641.1 | 672.3 | 764.4 |
| Oregon | 8,565 | 9,489 | 9,425 | 9,932 | 10,545 | 442.6 | 485.3 | 478.8 | 500.2 | 531.1 |
| Pennsylvania | 33,175 | 36,463 | 37,569 | 35,657 | 34,170 | 509.4 | 558.5 | 575.0 | 545.9 | 523.2 |
| Rhode Island | 2,478 | 2,984 | 3,091 | 3,044 | 3,037 | 455.4 | 549.5 | 570.3 | 561.5 | 560.2 |
| South Carolina | 20,842 | 22,278 | 20,497 | 19,103 | 20,581 | 877.5 | 927.2 | 844.7 | 779.2 | 839.5 |
| South Dakota | 2,300 | 2,491 | 2,801 | 2,793 | 2,942 | 565.4 | 606.2 | 674.9 | 664.2 | 699.6 |
| Tennessee | 20,559 | 22,200 | 22,732 | 21,057 | 21,203 | 632.1 | 676.3 | 687.3 | 632.6 | 636.9 |
| Texas | 92,847 | 95,326 | 96,405 | 96,923 | 96,959 | 732.6 | 737.1 | 735.3 | 728.7 | 728.9 |
| Utah | 4,473 | 4,821 | 5,149 | 5,050 | 5,414 | 325.2 | 343.9 | 362.8 | 350.2 | 375.5 |
| Vermont | 910 | 1,106 | 1,296 | 1,319 | 1,613 | 286.6 | 348.3 | 408.5 | 415.5 | 508.1 |
| Virginia | 22,348 | 26,283 | 24,670 | 23,167 | 24,754 | 548.4 | 637.9 | 592.4 | 551.8 | 589.6 |
| Washington | 15,634 | 16,641 | 17,271 | 17,452 | 18,193 | 463.3 | 486.5 | 499.8 | 500.2 | 521.5 |
| West Virginia | 2,832 | 3,092 | 3,405 | 3,624 | 3,356 | 301.5 | 328.8 | 362.2 | 386.1 | 357.5 |
| Wisconsin | 16,657 | 17,402 | 16,727 | 16,448 | 16,063 | 581.5 | 605.1 | 580.1 | 569.0 | 555.7 |
| Wyoming | 1,305 | 1,357 | 1,492 | 1,387 | 1,352 | 472.5 | 487.4 | 528.8 | 486.0 | 473.8 |
| U.S. TOTAL | 949,802 | 1,018,552 | 1,018,272 | 993,348 | 1,006,441 | 605.1 | 643.4 | 638.7 | 619.0 | 627.2 |
| Northeast | 152,982 | 160,806 | 160,877 | 154,897 | 153,932 | 537.8 | 563.8 | 562.0 | 539.7 | 536.4 |
| Midwest | 204,997 | 216,082 | 218,598 | 211,000 | 213,616 | 602.9 | 633.7 | 639.9 | 615.9 | 623.6 |
| South | 396,361 | 428,378 | 423,166 | 412,537 | 418,781 | 678.5 | 724.2 | 708.3 | 684.1 | 694.4 |
| West | 195,462 | 213,286 | 215,631 | 214,914 | 220,112 | 541.5 | 583.9 | 584.6 | 577.5 | 591.5 |
| Guam | 664 | 783 | 726 | 700 | 595 | 846.8 | 996.9 | 921.9 | 885.8 | 752.9 |
| Puerto Rico | 4,878 | 4,528 | 5,102 | 4,766 | 3,770 | 251.4 | 234.3 | 267.1 | 252.7 | 199.9 |
| Virgin Islands | 427 | 591 | 592 | 579 | 590 | 757.7 | 1,051.7 | 1,056.8 | 1,037.1 | 1,056.8 |
| OUTLYING AREAS | 5,969 | 5,902 | 6,420 | 6,045 | 4,955 | 287.6 | 285.5 | 314.0 | 299.1 | 245.2 |
| TOTAL | 955,771 | 1,024,454 | 1,024,692 | 999,393 | 1,011,396 | 601.0 | 638.8 | 634.6 | 615.0 | 622.4 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 5. Chlamydia Among Men — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 6,877 | 7,648 | 8,295 | 8,201 | 8,318 | 296.4 | 328.3 | 354.7 | 349.7 | 354.7 |
| Alaska | 2,058 | 1,938 | 1,792 | 1,875 | 1,849 | 556.8 | 516.5 | 470.0 | 486.3 | 479.6 |
| Arizona | 7,331 | 8,052 | 8,354 | 8,610 | 9,650 | 230.8 | 249.8 | 256.4 | 261.3 | 292.9 |
| Arkansas | 4,112 | 4,125 | 4,360 | 4,104 | 3,964 | 287.2 | 285.9 | 301.0 | 282.3 | 272.7 |
| California | 47,239 | 51,554 | 52,983 | 54,679 | 60,687 | 255.1 | 275.0 | 280.1 | 286.8 | 318.3 |
| Colorado | 5,259 | 6,057 | 6,155 | 6,050 | 6,957 | 208.6 | 235.9 | 236.4 | 228.6 | 262.9 |
| Connecticut | 3,426 | 3,825 | 3,524 | 3,481 | 3,757 | 196.9 | 219.2 | 201.4 | 198.4 | 214.2 |
| Delaware | 1,168 | 1,317 | 1,257 | 1,499 | 1,389 | 268.5 | 299.4 | 282.9 | 334.6 | 310.1 |
| District of Columbia | 1,789 | 2,225 | 2,345 | 2,400 | 1,555 | 629.4 | 761.4 | 784.2 | 783.7 | 507.8 |
| Florida | 21,362 | 21,685 | 22,009 | 23,300 | 25,239 | 232.5 | 232.6 | 233.0 | 243.7 | 263.9 |
| Georgia | 11,965 | 13,978 | 14,521 | 14,063 | 14,736 | 253.0 | 291.0 | 299.3 | 288.1 | 301.9 |
| Hawaii | 1,675 | 1,687 | 1,888 | 1,994 | 1,950 | 245.9 | 244.6 | 269.0 | 281.0 | 274.8 |
| Idaho | 1,183 | 1,347 | 1,344 | 1,528 | 1,547 | 150.6 | 169.7 | 168.3 | 189.3 | 191.7 |
| Illinois | 15,957 | 18,083 | 18,977 | 17,943 | 19,908 | 253.6 | 286.4 | 300.3 | 283.6 | 314.7 |
| Indiana | 6,451 | 7,681 | 7,850 | 7,708 | 7,921 | 202.2 | 239.5 | 243.9 | 238.2 | 244.8 |
| Iowa | 2,930 | 3,058 | 3,183 | 3,058 | 3,419 | 194.3 | 201.5 | 208.8 | 199.4 | 223.0 |
| Kansas | 2,152 | 2,440 | 2,695 | 2,689 | 2,840 | 152.0 | 171.1 | 187.8 | 186.5 | 197.0 |
| Kentucky | 4,488 | 4,577 | 4,851 | 4,989 | 5,194 | 210.2 | 212.9 | 224.8 | 230.6 | 240.1 |
| Louisiana | 6,658 | 7,568 | 6,846 | 7,481 | 7,655 | 300.0 | 338.1 | 304.0 | 330.4 | 338.1 |
| Maine | 768 | 944 | 990 | 1,031 | 1,050 | 118.1 | 145.2 | 152.2 | 158.6 | 161.5 |
| Maryland | 6,336 | 7,197 | 7,193 | 7,654 | 8,237 | 227.0 | 255.2 | 252.4 | 266.2 | 286.5 |
| Massachusetts | 6,302 | 7,000 | 7,193 | 7,341 | 7,197 | 199.0 | 219.5 | 223.4 | 226.2 | 221.8 |
| Michigan | 12,926 | 13,095 | 12,962 | 12,683 | 12,723 | 266.6 | 270.2 | 267.2 | 261.0 | 261.8 |
| Minnesota | 4,329 | 5,075 | 5,430 | 5,791 | 6,414 | 164.5 | 191.2 | 203.2 | 215.0 | 238.1 |
| Mississippi | 5,459 | 5,519 | 6,281 | 4,788 | 5,588 | 378.8 | 381.5 | 433.4 | 329.2 | 384.2 |
| Missouri | 7,182 | 7,790 | 8,090 | 8,025 | 8,432 | 244.8 | 264.6 | 274.1 | 270.8 | 284.5 |
| Montana | 888 | 1,016 | 1,172 | 1,116 | 1,314 | 178.8 | 202.7 | 232.1 | 218.9 | 257.7 |
| Nebraska | 1,548 | 1,987 | 2,093 | 2,196 | 2,357 | 170.8 | 217.1 | 226.9 | 236.2 | 253.5 |
| Nevada | 2,768 | 3,290 | 3,508 | 3,590 | 3,786 | 203.0 | 239.3 | 252.2 | 255.4 | 269.4 |
| New Hampshire | 654 | 826 | 922 | 932 | 1,130 | 100.7 | 126.9 | 141.4 | 142.6 | 172.9 |
| New Jersey | 5,874 | 6,231 | 6,958 | 7,476 | 8,272 | 137.3 | 144.9 | 160.9 | 172.1 | 190.4 |
| New Mexico | 2,986 | 3,054 | 3,170 | 3,209 | 3,148 | 293.5 | 296.5 | 307.0 | 310.5 | 304.6 |
| New York | 31,224 | 32,126 | 32,147 | 31,273 | 33,634 | 333.0 | 340.6 | 338.8 | 327.9 | 352.7 |
| North Carolina | 8,030 | 11,585 | 11,354 | 11,254 | 11,638 | 172.9 | 246.3 | 238.9 | 234.4 | 242.4 |
| North Dakota | 822 | 841 | 1,010 | 1,009 | 1,249 | 241.9 | 242.9 | 283.9 | 272.7 | 337.6 |
| Ohio | 12,320 | 13,731 | 14,262 | 14,828 | 15,825 | 218.7 | 243.5 | 252.8 | 262.0 | 279.6 |
| Oklahoma | 3,997 | 3,851 | 4,498 | 5,213 | 5,802 | 215.2 | 205.1 | 238.0 | 273.3 | 304.2 |
| Oregon | 3,786 | 4,154 | 4,028 | 4,243 | 4,953 | 199.7 | 216.7 | 208.6 | 218.2 | 254.7 |
| Pennsylvania | 14,297 | 16,364 | 17,388 | 16,360 | 16,315 | 231.0 | 263.3 | 279.1 | 262.1 | 261.4 |
| Rhode Island | 1,002 | 1,162 | 1,222 | 1,268 | 1,312 | 197.1 | 228.6 | 240.4 | 248.9 | 257.5 |
| South Carolina | 5,653 | 6,585 | 6,588 | 6,432 | 7,376 | 251.2 | 289.2 | 286.8 | 276.9 | 317.5 |
| South Dakota | 883 | 914 | 1,123 | 1,134 | 1,224 | 216.8 | 221.2 | 268.5 | 267.2 | 288.4 |
| Tennessee | 7,748 | 8,905 | 9,754 | 9,311 | 9,587 | 250.5 | 285.3 | 309.8 | 294.0 | 302.7 |
| Texas | 26,966 | 29,533 | 30,532 | 31,980 | 34,110 | 216.2 | 231.8 | 235.8 | 243.2 | 259.5 |
| Utah | 2,215 | 2,265 | 2,466 | 2,485 | 2,808 | 159.5 | 160.0 | 171.7 | 170.3 | 192.5 |
| Vermont | 347 | 377 | 428 | 523 | 622 | 112.6 | 122.1 | 138.6 | 169.2 | 201.2 |
| Virginia | 8,397 | 9,929 | 10,247 | 10,112 | 11,244 | 213.9 | 249.7 | 254.8 | 248.9 | 276.8 |
| Washington | 5,711 | 6,639 | 7,325 | 7,498 | 8,384 | 170.5 | 194.7 | 212.8 | 215.3 | 240.7 |
| West Virginia | 1,044 | 1,203 | 1,385 | 1,514 | 1,363 | 114.3 | 131.5 | 151.3 | 165.4 | 148.9 |
| Wisconsin | 6,573 | 7,203 | 6,999 | 7,114 | 7,077 | 232.9 | 254.0 | 246.2 | 249.4 | 248.1 |
| Wyoming | 808 | 734 | 610 | 617 | 619 | 281.1 | 253.3 | 207.3 | 207.5 | 208.2 |
| U.S. TOTAL | 353,923 | 389,970 | 402,557 | 405,652 | 433,325 | 233.2 | 254.4 | 260.6 | 260.6 | 278.4 |
| Northeast | 63,894 | 68,855 | 70,772 | 69,685 | 73,289 | 237.8 | 255.0 | 260.8 | 255.8 | 269.0 |
| Midwest | 74,073 | 81,898 | 84,674 | 84,178 | 89,389 | 225.0 | 247.7 | 255.4 | 252.9 | 268.5 |
| South | 132,049 | 147,430 | 152,316 | 154,295 | 162,995 | 235.2 | 259.1 | 264.8 | 265.7 | 280.7 |
| West | 83,907 | 91,787 | 94,795 | 97,494 | 107,652 | 234.1 | 252.6 | 258.3 | 263.2 | 290.6 |
| Guam | 235 | 288 | 305 | 234 | 244 | 290.1 | 355.3 | 375.8 | 287.6 | 299.9 |
| Puerto Rico | 1,076 | 1,106 | 1,125 | 1,203 | 1,126 | 60.3 | 62.3 | 64.0 | 69.6 | 65.1 |
| Virgin Islands | 182 | 229 | 210 | 196 | 201 | 364.7 | 461.8 | 426.3 | 400.7 | 411.0 |
| OUTLYING AREAS | 1,493 | 1,623 | 1,640 | 1,633 | 1,571 | 77.9 | 85.2 | 86.9 | 87.8 | 84.5 |
| TOTAL | 355,416 | 391,593 | 404,197 | 407,285 | 434,896 | 231.2 | 252.3 | 258.5 | 258.6 | 276.1 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 6. Chlamydia — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 22,203 | 27,372 | 26,470 | 16,429 | 25,744 | 420.0 | 509.0 | 485.0 | 297.5 | 466.1 |
| Austin-Round Rock, TX | 8,511 | 9,360 | 9,810 | 10,138 | 10,920 | 495.9 | 524.8 | 534.8 | 538.4 | 579.9 |
| Baltimore-Columbia-Towson, MD | 13,988 | 14,399 | 13,578 | 13,749 | 14,095 | 516.1 | 527.6 | 493.2 | 496.2 | 508.7 |
| Birmingham-Hoover, AL | 6,126 | 6,834 | 6,868 | 6,552 | 6,309 | 543.1 | 603.6 | 604.2 | 574.6 | 553.3 |
| Boston-Cambridge-Newton, MA-NH | 14,291 | 15,703 | 16,339 | 16,127 | 14,264 | 313.9 | 342.0 | 352.1 | 344.3 | 304.5 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 5,938 | 5,965 | 6,010 | 5,724 | 5,841 | 522.9 | 526.0 | 529.9 | 504.7 | 515.0 |
| Charlotte-Concord-Gastonia, NC-SC | 9,060 | 13,257 | 11,548 | 11,418 | 11,766 | 408.7 | 587.2 | 502.8 | 488.9 | 503.8 |
| Chicago-Naperville-Elgin, IL-IN-WI | 45,726 | 49,590 | 51,329 | 47,837 | 51,457 | 483.3 | 521.7 | 539.0 | 501.6 | 539.5 |
| Cincinnati, OH-KY-IN | 9,791 | 10,044 | 10,234 | 10,207 | 10,516 | 463.0 | 473.2 | 480.8 | 477.5 | 492.0 |
| Cleveland-Elyria, OH | 11,608 | 12,348 | 12,339 | 12,126 | 11,363 | 558.8 | 597.0 | 598.0 | 587.3 | 550.3 |
| Columbus, OH | 9,625 | 9,031 | 8,946 | 9,734 | 10,258 | 506.1 | 469.3 | 460.2 | 494.8 | 521.5 |
| Dallas-Fort Worth-Arlington, TX | 29,430 | 32,002 | 31,697 | 30,684 | 30,549 | 458.0 | 486.2 | 473.0 | 450.5 | 448.5 |
| Denver-Aurora-Lakewood, CO | 14,320 | 12,710 | 12,764 | 12,131 | 13,346 | 563.0 | 488.9 | 482.5 | 449.7 | 494.8 |
| Detroit-Warren-Dearborn, MI | 27,751 | 26,237 | 24,229 | 22,567 | 21,012 | 645.9 | 612.2 | 564.5 | 525.4 | 489.2 |
| Hartford-West Hartford-East Hartford, CT | 4,616 | 4,837 | 4,562 | 4,311 | 4,713 | 380.7 | 398.7 | 375.7 | 354.8 | 387.8 |
| Houston-The Woodlands-Sugar Land, TX | 27,462 | 26,508 | 26,807 | 29,120 | 30,554 | 463.9 | 437.4 | 434.0 | 461.3 | 484.0 |
| Indianapolis-Carmel-Anderson, IN | 8,797 | 11,117 | 12,714 | 11,835 | 11,952 | 466.0 | 582.1 | 659.1 | 605.7 | 611.7 |
| Jacksonville, FL | 7,093 | 7,264 | 6,813 | 7,138 | 7,391 | 527.1 | 534.0 | 494.5 | 511.8 | 530.0 |
| Kansas City, MO-KS | 9,372 | 10,038 | 10,152 | 9,513 | 9,866 | 466.4 | 495.3 | 498.0 | 463.0 | 480.2 |
| Las Vegas-Henderson-Paradise, NV | 7,614 | 8,337 | 8,587 | 9,286 | 9,485 | 390.2 | 423.2 | 429.2 | 457.9 | 467.7 |
| Los Angeles-Long Beach-Anaheim, CA | 56,033 | 58,552 | 60,231 | 59,386 | 64,263 | 436.8 | 452.3 | 461.4 | 452.2 | 489.4 |
| Louisville/Jefferson County, KY-IN | 6,157 | 6,483 | 6,658 | 6,384 | 6,751 | 498.3 | 520.6 | 532.1 | 505.8 | 534.8 |
| Memphis, TN-MS-AR | 12,486 | 11,720 | 12,744 | 10,763 | 10,554 | 942.5 | 878.3 | 949.8 | 802.2 | 786.6 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 19,095 | 19,561 | 20,933 | 22,821 | 24,599 | 343.1 | 345.0 | 363.2 | 391.6 | 422.1 |
| Milwaukee-Waukesha-West Allis, WI | 11,512 | 11,712 | 10,929 | 10,754 | 10,303 | 739.9 | 749.7 | 697.5 | 685.1 | 656.4 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 10,975 | 12,143 | 12,144 | 12,227 | 13,589 | 327.7 | 358.5 | 354.9 | 353.5 | 392.8 |
| Nashville-Davidson-Murfreesboro-Franklin, TN | 6,026 | 6,990 | 7,151 | 7,356 | 7,878 | 360.6 | 411.5 | 414.1 | 418.5 | 448.1 |
| New Orleans-Metairie, LA | 7,050 | 8,124 | 7,118 | 8,134 | 8,595 | 592.5 | 669.8 | 580.1 | 655.5 | 692.6 |
| New York-Newark-Jersey City, NY-NJ-PA | 92,464 | 95,088 | 92,763 | 89,211 | 93,515 | 472.5 | 483.0 | 467.7 | 447.2 | 468.8 |
| Oklahoma City, OK | 4,704 | 5,087 | 5,640 | 6,190 | 7,293 | 375.4 | 398.0 | 435.0 | 469.1 | 552.6 |
| Orlando-Kissimmee-Sanford, FL | 9,491 | 9,545 | 9,928 | 10,230 | 11,001 | 444.7 | 439.6 | 446.5 | 451.1 | 485.1 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 33,050 | 34,799 | 35,513 | 34,741 | 33,376 | 554.0 | 580.7 | 590.0 | 575.7 | 553.1 |
| Phoenix-Mesa-Scottsdale, AZ | 16,519 | 17,746 | 20,358 | 20,164 | 21,576 | 394.0 | 416.3 | 470.2 | 458.4 | 490.5 |
| Pittsburgh, PA | 7,096 | 8,436 | 8,994 | 8,605 | 8,059 | 301.2 | 357.5 | 381.0 | 364.5 | 341.4 |
| Portland-Vancouver-Hillsboro, OR-WA | 7,415 | 8,509 | 7,797 | 8,536 | 9,283 | 333.1 | 376.1 | 340.5 | 368.8 | 401.1 |
| Providence-Warwick, RI-MA | 4,759 | 5,559 | 5,941 | 5,828 | 5,695 | 297.3 | 347.4 | 371.0 | 363.3 | 355.0 |
| Raleigh, NC | 5,122 | 5,693 | 5,373 | 4,966 | 5,126 | 453.1 | 489.3 | 452.1 | 408.9 | 422.1 |
| Richmond, VA | 6,911 | 7,698 | 7,224 | 6,817 | 7,817 | 572.1 | 631.5 | 586.4 | 547.2 | 627.5 |
| Riverside-San Bernardino-Ontario, CA | 12,263 | 20,749 | 20,994 | 19,819 | 19,560 | 290.3 | 482.0 | 482.6 | 452.4 | 446.5 |
| Sacramento-Roseville-Arden-Arcade, CA | 8,084 | 10,866 | 9,852 | 9,771 | 9,674 | 376.2 | 499.3 | 448.5 | 441.0 | 436.6 |
| Salt Lake City, UT | 3,653 | 3,767 | 4,041 | 3,947 | 4,423 | 335.8 | 339.9 | 359.6 | 346.1 | 387.8 |
| San Antonio-New Braunfels, TX | 12,430 | 13,066 | 13,023 | 13,335 | 11,573 | 580.2 | 595.3 | 582.9 | 585.5 | 508.1 |
| San Diego-Carlsbad, CA | 15,341 | 15,346 | 16,524 | 14,706 | 15,754 | 495.6 | 488.7 | 520.1 | 458.0 | 490.6 |
| San Francisco-Oakland-Hayward, CA | 17,686 | 18,745 | 17,171 | 18,254 | 20,377 | 407.9 | 426.9 | 385.4 | 404.2 | 451.2 |
| San Jose-Sunnyvale-Santa Clara, CA | 5,691 | 5,965 | 4,676 | 6,717 | 6,278 | 309.8 | 319.8 | 246.8 | 349.9 | 327.0 |
| Seattle-Tacoma-Bellevue, WA | 11,510 | 12,329 | 12,965 | 12,971 | 13,861 | 334.6 | 352.3 | 365.0 | 359.3 | 384.0 |
| St. Louis, MO-IL | 14,660 | 15,517 | 14,843 | 14,783 | 14,711 | 525.9 | 555.7 | 530.9 | 527.8 | 525.2 |
| Tampa-St. Petersburg-Clearwater, FL | 12,158 | 12,595 | 12,274 | 12,752 | 12,952 | 436.8 | 445.9 | 431.7 | 444.2 | 451.2 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 11,387 | 13,674 | 12,409 | 11,852 | 12,192 | 679.1 | 811.5 | 730.0 | 694.2 | 714.1 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 20,027 | 22,839 | 23,872 | 23,531 | 18,342 | 355.3 | 396.6 | 407.3 | 395.5 | 308.3 |
| SELECTED MSAs TOTAL | 755,077 | 811,856 | 811,879 | 792,177 | 820,371 | 450.9 | 479.2 | 474.2 | 458.3 | 474.6 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

Table 7. Chlamydia Among Women — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 15,556 | 19,507 | 18,298 | 11,221 | 17,564 | 573.1 | 707.7 | 652.7 | 395.0 | 618.3 |
| Austin-Round Rock, TX | 6,212 | 6,644 | 6,909 | 6,691 | 7,513 | 725.5 | 746.6 | 755.2 | 712.3 | 799.8 |
| Baltimore-Columbia-Towson, MD | 10,744 | 10,668 | 9,933 | 9,848 | 9,780 | 764.4 | 754.3 | 696.7 | 686.9 | 682.1 |
| Birmingham-Hoover, AL | 4,525 | 4,834 | 4,866 | 4,486 | 4,300 | 775.0 | 824.1 | 826.1 | 759.2 | 727.7 |
| Boston-Cambridge-Newton, MA-NH | 9,937 | 10,747 | 11,234 | 10,791 | 9,243 | 422.9 | 454.1 | 469.9 | 447.5 | 383.3 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 4,386 | 4,370 | 4,317 | 4,024 | 4,077 | 746.5 | 745.7 | 737.4 | 688.0 | 697.1 |
| Charlotte-Concord-Gastonia, NC-SC | 7,101 | 10,024 | 8,731 | 8,605 | 8,633 | 624.2 | 864.7 | 740.1 | 717.0 | 719.3 |
| Chicago-Naperville-Elgin, IL-IN-WI | 33,360 | 35,360 | 36,701 | 34,216 | 35,696 | 689.5 | 728.0 | 754.3 | 702.5 | 732.9 |
| Cincinnati, OH-KY-IN | 7,740 | 7,763 | 7,750 | 7,527 | 7,724 | 716.1 | 715.9 | 713.0 | 690.0 | 708.1 |
| Cleveland-Elyria, OH | 8,556 | 9,065 | 8,877 | 8,550 | 7,914 | 793.1 | 844.7 | 829.5 | 799.4 | 739.9 |
| Columbus, OH | 6,947 | 6,266 | 6,280 | 6,749 | 6,895 | 717.8 | 640.2 | 635.3 | 674.7 | 689.3 |
| Dallas-Fort Worth-Arlington, TX | 22,979 | 24,221 | 24,018 | 22,744 | 22,213 | 705.4 | 726.5 | 707.6 | 658.7 | 643.3 |
| Denver-Aurora-Lakewood, CO | 10,458 | 9,143 | 9,117 | 8,447 | 9,020 | 817.7 | 700.4 | 686.4 | 624.1 | 666.4 |
| Detroit-Warren-Dearborn, MI | 20,530 | 19,161 | 17,460 | 16,152 | 14,822 | 927.2 | 867.8 | 789.8 | 730.5 | 670.4 |
| Hartford-West Hartford-East Hartford, CT | 3,324 | 3,470 | 3,301 | 3,109 | 3,349 | 534.2 | 557.6 | 529.8 | 499.0 | 537.5 |
| Houston-The Woodlands-Sugar Land, TX | 21,875 | 20,956 | 20,858 | 22,027 | 22,832 | 735.0 | 688.2 | 672.3 | 695.0 | 720.4 |
| Indianapolis-Carmel-Anderson, IN | 5,976 | 7,579 | 8,899 | 8,149 | 8,398 | 619.1 | 776.3 | 902.5 | 816.1 | 841.0 |
| Jacksonville, FL | 5,191 | 5,213 | 4,812 | 5,131 | 5,238 | 752.4 | 746.9 | 680.7 | 717.4 | 732.4 |
| Kansas City, MO-KS | 6,800 | 7,278 | 7,295 | 6,795 | 6,991 | 662.8 | 703.8 | 701.5 | 649.2 | 667.9 |
| Las Vegas-Henderson-Paradise, NV | 5,537 | 5,777 | 5,942 | 6,571 | 6,486 | 571.4 | 590.2 | 597.1 | 650.5 | 642.0 |
| Los Angeles-Long Beach-Anaheim, CA | 37,486 | 38,802 | 39,470 | 38,456 | 40,401 | 576.7 | 592.0 | 597.1 | 578.5 | 607.7 |
| Louisville/Jefferson County, KY-IN | 4,545 | 4,745 | 4,884 | 4,574 | 4,827 | 718.4 | 744.1 | 762.7 | 708.1 | 747.2 |
| Memphis, TN-MS-AR | 9,542 | 8,767 | 9,367 | 7,717 | 7,758 | 1,385.5 | 1,263.3 | 1,342.7 | 1,105.5 | 1,111.3 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 13,566 | 13,815 | 14,692 | 15,645 | 16,473 | 472.5 | 473.5 | 495.4 | 521.9 | 549.5 |
| Milwaukee-Waukesha-West Allis, WI | 8,376 | 8,397 | 7,760 | 7,463 | 7,183 | 1,048.2 | 1,047.4 | 964.7 | 926.6 | 891.8 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 7,788 | 8,371 | 8,326 | 8,293 | 8,957 | 459.4 | 488.7 | 481.1 | 474.2 | 512.2 |
| Nashville-Davidson-Murfreesboro-Franklin, TN | 4,250 | 4,942 | 4,928 | 5,084 | 5,278 | 497.5 | 568.7 | 557.8 | 565.0 | 586.6 |
| New Orleans-Metairie, LA | 5,134 | 6,056 | 5,326 | 6,062 | 6,301 | 840.7 | 972.3 | 843.9 | 948.7 | 986.1 |
| New York-Newark-Jersey City, NY-NJ-PA | 64,520 | 65,988 | 63,588 | 60,539 | 62,097 | 636.7 | 648.2 | 620.5 | 587.7 | 602.8 |
| Oklahoma City, OK | 3,292 | 3,518 | 3,951 | 4,430 | 5,255 | 517.9 | 543.3 | 601.6 | 662.5 | 785.8 |
| Orlando-Kissimmee-Sanford, FL | 6,777 | 6,993 | 7,373 | 7,503 | 8,021 | 621.9 | 631.1 | 649.6 | 648.3 | 693.1 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 22,863 | 23,928 | 24,166 | 23,532 | 22,317 | 740.7 | 772.0 | 776.5 | 754.4 | 715.4 |
| Phoenix-Mesa-Scottsdale, AZ | 11,892 | 12,696 | 14,396 | 14,206 | 14,841 | 564.3 | 592.8 | 661.6 | 642.4 | 671.1 |
| Pittsburgh, PA | 5,146 | 5,963 | 6,325 | 6,046 | 5,509 | 422.5 | 489.5 | 519.7 | 497.4 | 453.2 |
| Portland-Vancouver-Hillsboro, OR-WA | 5,091 | 5,824 | 5,359 | 5,809 | 6,158 | 451.8 | 508.8 | 462.8 | 496.1 | 525.9 |
| Providence-Warwick, RI-MA | 3,433 | 4,022 | 4,256 | 4,124 | 3,945 | 415.1 | 486.9 | 515.3 | 498.7 | 477.1 |
| Raleigh, NC | 3,525 | 3,951 | 3,691 | 3,490 | 3,502 | 609.5 | 663.4 | 606.8 | 561.5 | 563.5 |
| Richmond, VA | 5,161 | 5,599 | 5,083 | 4,792 | 5,311 | 826.7 | 889.1 | 798.4 | 744.7 | 825.4 |
| Riverside-San Bernardino-Ontario, CA | 8,810 | 15,241 | 15,296 | 14,536 | 13,988 | 414.8 | 704.9 | 700.5 | 661.1 | 636.2 |
| Sacramento-Roseville-Arden-Arcade, CA | 5,754 | 7,874 | 7,122 | 6,915 | 6,686 | 525.2 | 709.9 | 635.9 | 611.8 | 591.5 |
| Salt Lake City, UT | 2,386 | 2,517 | 2,679 | 2,541 | 2,873 | 441.3 | 457.0 | 479.6 | 448.0 | 506.6 |
| San Antonio-New Braunfels, TX | 8,972 | 9,286 | 9,436 | 9,576 | 8,158 | 823.1 | 832.0 | 832.1 | 829.5 | 706.7 |
| San Diego-Carlsbad, CA | 10,538 | 10,395 | 11,102 | 9,684 | 10,211 | 683.6 | 664.9 | 702.5 | 606.3 | 639.3 |
| San Francisco-Oakland-Hayward, CA | 10,940 | 11,733 | 10,391 | 10,845 | 11,509 | 497.8 | 527.7 | 460.5 | 474.3 | 503.4 |
| San Jose-Sunnyvale-Santa Clara, CA | 3,951 | 4,187 | 3,260 | 4,530 | 4,100 | 431.6 | 450.7 | 345.9 | 474.6 | 429.6 |
| Seattle-Tacoma-Bellevue, WA | 8,000 | 8,259 | 8,460 | 8,411 | 8,751 | 463.0 | 470.9 | 474.8 | 465.4 | 484.2 |
| St. Louis, MO-IL | 10,468 | 11,077 | 10,351 | 10,364 | 10,271 | 727.9 | 769.0 | 717.8 | 717.6 | 711.2 |
| Tampa-St. Petersburg-Clearwater, FL | 8,527 | 8,913 | 8,738 | 8,948 | 9,066 | 593.9 | 612.5 | 596.5 | 604.2 | 612.1 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 8,106 | 9,798 | 8,771 | 8,259 | 8,425 | 948.5 | 1,141.0 | 1,015.2 | 952.5 | 971.6 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 14,263 | 15,946 | 16,349 | 15,768 | 12,501 | 493.1 | 540.4 | 544.5 | 518.1 | 410.7 |
| SELECTED MSAs TOTAL | 540,836 | 575,649 | 570,494 | 549,975 | 559,361 | 632.3 | 665.7 | 653.1 | 623.8 | 634.5 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 8. Chlamydia Among Men — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 6,482 | 7,563 | 7,917 | 5,061 | 7,979 | 252.0 | 288.6 | 298.3 | 188.7 | 297.5 |
| Austin-Round Rock, TX | 2,290 | 2,710 | 2,890 | 2,592 | 3,372 | 266.2 | 303.2 | 314.3 | 274.7 | 357.3 |
| Baltimore-Columbia-Towson, MD | 3,231 | 3,723 | 3,608 | 3,889 | 4,294 | 247.6 | 283.2 | 271.8 | 290.9 | 321.2 |
| Birmingham-Hoover, AL | 1,545 | 1,852 | 1,985 | 2,031 | 1,990 | 283.9 | 339.4 | 362.5 | 369.7 | 362.2 |
| Boston-Cambridge-Newton, MA-NH | 4,334 | 4,946 | 5,086 | 5,328 | 4,988 | 196.7 | 222.4 | 226.0 | 234.4 | 219.5 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 1,552 | 1,595 | 1,693 | 1,700 | 1,764 | 283.2 | 291.1 | 308.5 | 309.5 | 321.2 |
| Charlotte-Concord-Gastonia, NC-SC | 1,948 | 3,191 | 2,794 | 2,804 | 3,125 | 180.5 | 290.5 | 250.2 | 247.0 | 275.3 |
| Chicago-Naperville-Elgin, IL-IN-WI | 12,250 | 14,110 | 14,518 | 13,553 | 15,679 | 265.0 | 303.6 | 311.8 | 290.4 | 336.0 |
| Cincinnati, OH-KY-IN | 2,017 | 2,279 | 2,482 | 2,676 | 2,787 | 195.1 | 219.5 | 238.3 | 255.7 | 266.3 |
| Cleveland-Elyria, OH | 3,016 | 3,283 | 3,462 | 3,576 | 3,449 | 302.1 | 329.9 | 348.5 | 359.4 | 346.6 |
| Columbus, OH | 2,646 | 2,762 | 2,666 | 2,985 | 3,363 | 283.2 | 292.2 | 279.0 | 308.7 | 347.8 |
| Dallas-Fort Worth-Arlington, TX | 6,445 | 7,778 | 7,669 | 7,916 | 8,313 | 203.4 | 239.5 | 231.9 | 235.7 | 247.6 |
| Denver-Aurora-Lakewood, CO | 3,862 | 3,564 | 3,647 | 3,684 | 4,326 | 305.4 | 275.4 | 276.9 | 274.1 | 321.9 |
| Detroit-Warren-Dearborn, MI | 7,134 | 7,011 | 6,718 | 6,350 | 6,153 | 342.6 | 337.4 | 322.8 | 304.7 | 295.3 |
| Hartford-West Hartford-East Hartford, CT | 1,292 | 1,367 | 1,245 | 1,181 | 1,333 | 219.0 | 231.3 | 210.5 | 199.4 | 225.1 |
| Houston-The Woodlands-Sugar Land, TX | 5,550 | 5,550 | 5,944 | 7,078 | 7,700 | 188.5 | 184.1 | 193.3 | 225.1 | 244.9 |
| Indianapolis-Carmel-Anderson, IN | 2,814 | 3,513 | 3,802 | 3,681 | 3,544 | 305.0 | 376.3 | 403.2 | 385.3 | 370.9 |
| Jacksonville, FL | 1,893 | 2,047 | 2,001 | 1,989 | 2,138 | 288.7 | 309.1 | 298.2 | 292.7 | 314.7 |
| Kansas City, MO-KS | 2,572 | 2,760 | 2,857 | 2,718 | 2,875 | 261.5 | 278.1 | 286.1 | 269.7 | 285.3 |
| Las Vegas-Henderson-Paradise, NV | 2,076 | 2,558 | 2,644 | 2,708 | 2,986 | 211.4 | 258.1 | 262.9 | 266.1 | 293.4 |
| Los Angeles-Long Beach-Anaheim, CA | 18,343 | 19,577 | 20,633 | 20,831 | 23,766 | 289.9 | 306.3 | 320.3 | 321.3 | 366.6 |
| Louisville/Jefferson County, KY-IN | 1,601 | 1,710 | 1,744 | 1,781 | 1,896 | 265.5 | 281.4 | 285.4 | 289.0 | 307.7 |
| Memphis, TN-MS-AR | 2,938 | 2,953 | 3,377 | 3,046 | 2,795 | 461.8 | 461.1 | 524.3 | 473.2 | 434.2 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 5,523 | 5,721 | 6,238 | 7,134 | 8,086 | 205.0 | 207.8 | 223.0 | 252.0 | 285.7 |
| Milwaukee-Waukesha-West Allis, WI | 3,134 | 3,312 | 3,169 | 3,284 | 3,111 | 414.1 | 435.5 | 415.5 | 429.7 | 407.1 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 3,187 | 3,772 | 3,813 | 3,933 | 4,623 | 192.7 | 225.3 | 225.4 | 229.9 | 270.3 |
| Nashville-Davidson-Murfreesboro-Franklin, TN | 1,767 | 2,048 | 2,185 | 2,271 | 2,598 | 216.4 | 246.8 | 259.1 | 264.6 | 302.8 |
| New Orleans-Metairie, LA | 1,714 | 2,043 | 1,792 | 2,072 | 2,294 | 295.9 | 346.3 | 300.7 | 344.2 | 381.1 |
| New York-Newark-Jersey City, NY-NJ-PA | 27,844 | 28,877 | 29,065 | 28,546 | 31,310 | 295.2 | 303.7 | 303.3 | 295.8 | 324.5 |
| Oklahoma City, OK | 1,410 | 1,457 | 1,688 | 1,760 | 2,036 | 228.4 | 231.1 | 263.8 | 270.4 | 312.8 |
| Orlando-Kissimmee-Sanford, FL | 2,705 | 2,539 | 2,555 | 2,708 | 2,964 | 258.9 | 238.8 | 234.7 | 243.9 | 266.9 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 10,146 | 10,817 | 11,314 | 11,178 | 11,010 | 352.4 | 373.9 | 389.2 | 383.4 | 377.7 |
| Phoenix-Mesa-Scottsdale, AZ | 4,626 | 5,047 | 5,960 | 5,957 | 6,735 | 221.8 | 237.9 | 276.8 | 272.3 | 307.9 |
| Pittsburgh, PA | 1,947 | 2,471 | 2,668 | 2,550 | 2,541 | 171.1 | 216.5 | 233.3 | 222.6 | 221.8 |
| Portland-Vancouver-Hillsboro, OR-WA | 2,323 | 2,685 | 2,437 | 2,723 | 3,124 | 211.4 | 240.2 | 215.3 | 238.1 | 273.2 |
| Providence-Warwick, RI-MA | 1,325 | 1,536 | 1,683 | 1,702 | 1,744 | 171.2 | 198.4 | 217.1 | 218.9 | 224.3 |
| Raleigh, NC | 1,577 | 1,723 | 1,673 | 1,474 | 1,622 | 285.6 | 303.4 | 288.3 | 248.6 | 273.5 |
| Richmond, VA | 1,727 | 2,053 | 2,129 | 2,011 | 2,503 | 295.8 | 348.4 | 357.6 | 333.9 | 415.6 |
| Riverside-San Bernardino-Ontario, CA | 3,437 | 5,412 | 5,683 | 5,271 | 5,542 | 163.6 | 252.6 | 262.3 | 241.5 | 254.0 |
| Sacramento-Roseville-Arden-Arcade, CA | 2,287 | 2,960 | 2,712 | 2,846 | 2,976 | 217.1 | 277.4 | 251.9 | 262.2 | 274.2 |
| Salt Lake City, UT | 1,267 | 1,250 | 1,362 | 1,406 | 1,550 | 231.5 | 224.2 | 241.0 | 245.2 | 270.4 |
| San Antonio-New Braunfels, TX | 3,458 | 3,780 | 3,587 | 3,757 | 3,412 | 328.6 | 350.4 | 326.1 | 334.5 | 303.8 |
| San Diego-Carlsbad, CA | 4,785 | 4,925 | 5,418 | 5,013 | 5,508 | 308.0 | 312.3 | 339.3 | 310.6 | 341.2 |
| San Francisco-Oakland-Hayward, CA | 6,645 | 6,948 | 6,739 | 7,370 | 8,823 | 310.8 | 320.5 | 306.5 | 330.5 | 395.7 |
| San Jose-Sunnyvale-Santa Clara, CA | 1,649 | 1,667 | 1,353 | 2,186 | 2,163 | 179.0 | 178.0 | 142.1 | 226.5 | 224.1 |
| Seattle-Tacoma-Bellevue, WA | 3,509 | 4,070 | 4,505 | 4,560 | 5,110 | 205.0 | 233.1 | 254.5 | 253.0 | 283.5 |
| St. Louis, MO-IL | 4,190 | 4,436 | 4,474 | 4,411 | 4,429 | 310.5 | 328.1 | 330.5 | 325.1 | 326.4 |
| Tampa-St. Petersburg-Clearwater, FL | 3,601 | 3,657 | 3,532 | 3,752 | 3,835 | 267.2 | 267.0 | 256.3 | 270.0 | 276.0 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 3,275 | 3,857 | 3,631 | 3,584 | 3,748 | 398.3 | 466.8 | 434.3 | 426.5 | 446.1 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 5,720 | 6,867 | 7,461 | 7,725 | 5,813 | 208.5 | 244.6 | 261.1 | 265.8 | 200.0 |
| SELECTED MSAs TOTAL | 212,609 | 234,332 | 240,208 | 240,342 | 259,825 | 259.6 | 282.5 | 286.5 | 283.8 | 306.8 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 9. Chlamydia — Reported Cases and Rates of Reported Cases in Counties and Independent Cities* Ranked by Number of Reported Cases, United States, 2014

| Rank [†] | County/Independent City | Cases | Rate per 100,000 Population | Cumulative Percentage |
|-------------------|----------------------------|--------|-----------------------------|-----------------------|
| 1 | Los Angeles County, CA | 54,881 | 547.9 | 3 |
| 2 | Cook County, IL | 37,371 | 713.1 | 6 |
| 3 | Harris County, TX | 24,785 | 571.5 | 8 |
| 4 | Maricopa County, AZ | 20,219 | 504.3 | 9 |
| 5 | Philadelphia County, PA | 18,935 | 1,219.1 | 10 |
| 6 | Kings County, NY | 17,785 | 686.1 | 12 |
| 7 | Bronx County, NY | 16,168 | 1,139.6 | 13 |
| 8 | San Diego County, CA | 15,754 | 490.6 | 14 |
| 9 | Dallas County, TX | 14,945 | 602.5 | 15 |
| 10 | Wayne County, MI | 14,278 | 804.3 | 16 |
| 11 | New York County, NY | 12,551 | 771.8 | 17 |
| 12 | Queens County, NY | 12,063 | 525.4 | 18 |
| 13 | San Bernardino County, CA | 10,753 | 514.9 | 18 |
| 14 | Miami-Dade County, FL | 10,725 | 409.8 | 19 |
| 15 | Bexar County, TX | 10,335 | 568.6 | 20 |
| 16 | Marion County, IN | 9,512 | 1,024.7 | 20 |
| 17 | Clark County, NV | 9,485 | 467.7 | 21 |
| 18 | Orange County, CA | 9,382 | 301.2 | 22 |
| 19 | Milwaukee County, WI | 9,290 | 971.7 | 22 |
| 20 | Cuyahoga County, OH | 9,072 | 718.2 | 23 |
| 21 | Broward County, FL | 9,045 | 491.9 | 24 |
| 22 | Riverside County, CA | 8,807 | 384.2 | 24 |
| 23 | Tarrant County, TX | 8,652 | 452.6 | 25 |
| 24 | Franklin County, OH | 8,171 | 674.0 | 25 |
| 25 | Shelby County, TN | 8,074 | 859.4 | 26 |
| 26 | Sacramento County, CA | 7,736 | 529.1 | 26 |
| 27 | Hillsborough County, FL | 7,465 | 578.0 | 27 |
| 28 | King County, WA | 7,424 | 363.1 | 27 |
| 29 | Baltimore (City), MD | 7,345 | 1,180.7 | 28 |
| 30 | Travis County, TX | 7,322 | 653.2 | 29 |
| 31 | Alameda County, CA | 7,214 | 456.9 | 29 |
| 32 | Orange County, FL | 7,213 | 588.7 | 30 |
| 33 | Fulton County, GA | 6,575 | 668.0 | 30 |
| 34 | Hamilton County, OH | 6,526 | 811.2 | 30 |
| 35 | Hennepin County, MN | 6,426 | 536.0 | 31 |
| 36 | Kern County, CA | 6,345 | 734.3 | 31 |
| 37 | Mecklenburg County, NC | 6,313 | 637.0 | 32 |
| 38 | Santa Clara County, CA | 6,133 | 329.4 | 32 |
| 39 | Prince George's County, MD | 6,130 | 688.7 | 33 |
| 40 | San Francisco County, CA | 6,041 | 721.4 | 33 |
| 41 | Denver County, CO | 5,919 | 911.3 | 33 |
| 42 | Duval County, FL | 5,770 | 651.3 | 34 |
| 43 | Fresno County, CA | 5,730 | 599.8 | 34 |
| 44 | Allegheny County, PA | 5,710 | 463.7 | 35 |
| 45 | Pima County, AZ | 5,615 | 563.4 | 35 |
| 46 | Essex County, NJ | 5,542 | 701.9 | 35 |
| 47 | St. Louis County, MO | 5,360 | 535.2 | 36 |
| 48 | Jefferson County, KY | 5,200 | 687.1 | 36 |
| 49 | Jackson County, MO | 5,071 | 745.7 | 36 |
| 50 | Jefferson County, AL | 5,040 | 764.2 | 37 |
| 51 | Erie County, NY | 5,004 | 544.0 | 37 |
| 52 | Oklahoma County, OK | 4,994 | 661.2 | 38 |
| 53 | Honolulu County, HI | 4,994 | 507.8 | 38 |
| 54 | El Paso County, TX | 4,987 | 602.5 | 38 |
| 55 | Palm Beach County, FL | 4,829 | 351.9 | 39 |
| 56 | DeKalb County, GA | 4,583 | 642.5 | 39 |
| 57 | Pierce County, WA | 4,415 | 538.6 | 39 |
| 58 | Wake County, NC | 4,383 | 449.9 | 39 |
| 59 | Orleans Parish, LA | 4,296 | 1,134.4 | 40 |
| 60 | Davidson County, TN | 4,291 | 651.5 | 40 |
| 61 | Salt Lake County, UT | 4,280 | 396.4 | 40 |
| 62 | Contra Costa County, CA | 4,250 | 388.4 | 41 |
| 63 | Multnomah County, OR | 4,216 | 550.3 | 41 |
| 64 | Hartford County, CT | 4,154 | 462.4 | 41 |
| 65 | Monroe County, NY | 4,140 | 552.3 | 42 |
| 66 | Bernalillo County, NM | 4,074 | 604.3 | 42 |
| 67 | Tulsa County, OK | 4,070 | 653.9 | 42 |
| 68 | St. Louis (City), MO | 3,996 | 1,255.0 | 42 |
| 69 | New Haven County, CT | 3,963 | 459.6 | 43 |
| 70 | Douglas County, NE | 3,944 | 734.1 | 43 |

* Accounting for 43% of reported chlamydia cases.

† Counties and independent cities were ranked in descending order by number of cases reported then by rate in 2014.

Table 10. Chlamydia — Reported Cases and Rates of Reported Cases by Age Group and Sex, United States, 2010–2014

| Age Group | Cases | | | | Rates* | | | |
|--------------|------------------|----------------|------------------|--------------|--------------|--------------|--------------|------|
| | Total | Male | Female | Unknown Sex | Total | Male | Female | |
| 0–4 | 964 | 327 | 619 | 18 | 4.8 | 3.2 | 6.3 | 2010 |
| 5–9 | 188 | 26 | 158 | 4 | 0.9 | 0.3 | 1.6 | |
| 10–14 | 14,531 | 1,590 | 12,860 | 81 | 70.3 | 15.0 | 127.4 | |
| 15–19 | 441,342 | 85,570 | 354,252 | 1,520 | 2,002.4 | 757.0 | 3,299.5 | |
| 20–24 | 488,996 | 131,686 | 355,994 | 1,316 | 2,265.3 | 1,195.6 | 3,367.4 | |
| 25–29 | 197,525 | 66,470 | 130,561 | 494 | 936.1 | 625.0 | 1,247.4 | |
| 30–34 | 83,408 | 31,230 | 51,925 | 253 | 417.8 | 312.4 | 521.0 | |
| 35–39 | 38,384 | 15,861 | 22,421 | 102 | 190.2 | 157.9 | 221.2 | |
| 40–44 | 19,614 | 9,594 | 9,931 | 89 | 93.9 | 92.3 | 94.6 | |
| 45–54 | 16,106 | 8,635 | 7,423 | 48 | 35.8 | 39.0 | 32.5 | |
| 55–64 | 3,523 | 1,834 | 1,674 | 15 | 9.7 | 10.4 | 8.9 | |
| 65+ | 954 | 464 | 481 | 9 | 2.4 | 2.7 | 2.1 | |
| Unknown Age | 2,358 | 636 | 1,503 | 219 | | | | |
| TOTAL | 1,307,893 | 353,923 | 949,802 | 4,168 | 423.6 | 233.2 | 605.1 | |
| 0–4 | 747 | 284 | 458 | 5 | 3.7 | 2.8 | 4.6 | 2011 |
| 5–9 | 143 | 24 | 118 | 1 | 0.7 | 0.2 | 1.2 | |
| 10–14 | 15,405 | 1,743 | 13,588 | 74 | 74.4 | 16.5 | 134.3 | |
| 15–19 | 459,029 | 90,764 | 366,818 | 1,447 | 2,120.8 | 816.3 | 3,485.2 | |
| 20–24 | 542,947 | 147,948 | 393,534 | 1,465 | 2,450.8 | 1,307.8 | 3,630.0 | |
| 25–29 | 214,534 | 73,357 | 140,628 | 549 | 1,008.2 | 681.7 | 1,337.0 | |
| 30–34 | 91,787 | 34,971 | 56,562 | 254 | 447.5 | 340.1 | 553.0 | |
| 35–39 | 40,734 | 16,911 | 23,711 | 112 | 207.9 | 173.2 | 241.1 | |
| 40–44 | 21,654 | 10,460 | 11,120 | 74 | 102.9 | 100.0 | 105.2 | |
| 45–54 | 18,136 | 9,910 | 8,182 | 44 | 40.6 | 45.0 | 36.0 | |
| 55–64 | 4,210 | 2,300 | 1,903 | 7 | 11.1 | 12.5 | 9.7 | |
| 65+ | 1,064 | 569 | 486 | 9 | 2.6 | 3.2 | 2.1 | |
| Unknown Age | 2,401 | 729 | 1,444 | 228 | | | | |
| TOTAL | 1,412,791 | 389,970 | 1,018,552 | 4,269 | 453.4 | 254.4 | 643.4 | |
| 0–4 | 774 | 272 | 495 | 7 | 3.9 | 2.7 | 5.1 | 2012 |
| 5–9 | 151 | 17 | 134 | 0 | 0.7 | 0.2 | 1.3 | |
| 10–14 | 14,355 | 1,655 | 12,673 | 27 | 69.5 | 15.7 | 125.5 | |
| 15–19 | 433,239 | 86,150 | 346,430 | 659 | 2,028.2 | 785.8 | 3,331.7 | |
| 20–24 | 554,173 | 152,772 | 400,629 | 772 | 2,453.9 | 1,322.8 | 3,630.9 | |
| 25–29 | 224,014 | 77,666 | 146,037 | 311 | 1,046.9 | 716.2 | 1,383.8 | |
| 30–34 | 97,736 | 38,011 | 59,594 | 131 | 467.4 | 362.2 | 572.1 | |
| 35–39 | 43,660 | 18,274 | 25,313 | 73 | 224.0 | 188.1 | 259.0 | |
| 40–44 | 23,882 | 11,596 | 12,245 | 41 | 113.6 | 110.9 | 115.9 | |
| 45–54 | 20,321 | 11,332 | 8,961 | 28 | 45.9 | 52.0 | 39.9 | |
| 55–64 | 4,950 | 2,783 | 2,161 | 6 | 12.8 | 15.0 | 10.8 | |
| 65+ | 1,134 | 602 | 525 | 7 | 2.6 | 3.2 | 2.2 | |
| Unknown Age | 4,587 | 1,427 | 3,075 | 85 | | | | |
| TOTAL | 1,422,976 | 402,557 | 1,018,272 | 2,147 | 453.3 | 260.6 | 638.7 | |
| 0–4 | 681 | 266 | 402 | 13 | 3.4 | 2.6 | 4.1 | 2013 |
| 5–9 | 145 | 20 | 123 | 2 | 0.7 | 0.2 | 1.2 | |
| 10–14 | 12,585 | 1,554 | 11,001 | 30 | 60.9 | 14.7 | 108.9 | |
| 15–19 | 395,612 | 78,404 | 316,438 | 770 | 1,869.7 | 722.9 | 3,068.4 | |
| 20–24 | 553,658 | 153,102 | 399,545 | 1,011 | 2,428.8 | 1,310.9 | 3,594.2 | |
| 25–29 | 233,429 | 82,190 | 150,733 | 506 | 1,081.7 | 749.9 | 1,419.3 | |
| 30–34 | 103,675 | 41,017 | 62,414 | 244 | 487.6 | 384.0 | 589.8 | |
| 35–39 | 46,991 | 20,157 | 26,720 | 114 | 239.7 | 206.0 | 272.1 | |
| 40–44 | 24,774 | 12,200 | 12,501 | 73 | 118.8 | 117.8 | 119.2 | |
| 45–54 | 21,511 | 12,180 | 9,299 | 32 | 49.1 | 56.5 | 41.9 | |
| 55–64 | 5,424 | 3,154 | 2,259 | 11 | 13.8 | 16.6 | 11.1 | |
| 65+ | 1,377 | 750 | 616 | 11 | 3.1 | 3.8 | 2.5 | |
| Unknown Age | 2,044 | 658 | 1,297 | 89 | | | | |
| TOTAL | 1,401,906 | 405,652 | 993,348 | 2,906 | 443.5 | 260.6 | 619.0 | |
| 0–4 | 603 | 200 | 388 | 15 | 3.0 | 2.0 | 4.0 | 2014 |
| 5–9 | 181 | 26 | 152 | 3 | 0.9 | 0.2 | 1.5 | |
| 10–14 | 11,406 | 1,342 | 10,041 | 23 | 55.2 | 12.7 | 99.4 | |
| 15–19 | 381,717 | 77,908 | 303,294 | 515 | 1,804.0 | 718.3 | 2,941.0 | |
| 20–24 | 566,385 | 159,804 | 405,876 | 705 | 2,484.6 | 1,368.3 | 3,651.1 | |
| 25–29 | 253,825 | 91,729 | 161,793 | 303 | 1,176.2 | 837.0 | 1,523.4 | |
| 30–34 | 113,208 | 45,990 | 67,060 | 158 | 532.4 | 430.6 | 633.7 | |
| 35–39 | 52,536 | 22,894 | 29,545 | 97 | 268.0 | 234.0 | 300.9 | |
| 40–44 | 27,426 | 13,711 | 13,662 | 53 | 131.5 | 132.3 | 130.3 | |
| 45–54 | 24,773 | 14,318 | 10,424 | 31 | 56.6 | 66.4 | 47.0 | |
| 55–64 | 6,527 | 3,911 | 2,603 | 13 | 16.6 | 20.6 | 12.8 | |
| 65+ | 1,449 | 871 | 570 | 8 | 3.2 | 4.4 | 2.3 | |
| Unknown Age | 1,753 | 621 | 1,033 | 99 | | | | |
| TOTAL | 1,441,789 | 433,325 | 1,006,441 | 2,023 | 456.1 | 278.4 | 627.2 | |

* No population data are available for unknown sex and age; therefore, rates are not calculated.

NOTE: This table should be used only for age comparisons. Cases in the 0–4 age group may include cases due to perinatal transmission.

Table 11A. Chlamydia — Reported Cases by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|--------------|---------------|---------------|--------------|---------------|----------------------|----------------|----------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 4 | 2 | 2 | 8 | 2 | 6 | 130 | 46 | 84 |
| 5–9 | 2 | 0 | 2 | 1 | 0 | 1 | 47 | 9 | 38 |
| 10–14 | 166 | 18 | 148 | 49 | 1 | 47 | 4,573 | 651 | 3,916 |
| 15–19 | 3,754 | 675 | 3,078 | 2,420 | 342 | 2,076 | 124,318 | 30,538 | 93,695 |
| 20–24 | 5,217 | 1,174 | 4,041 | 6,110 | 1,451 | 4,654 | 164,078 | 51,501 | 112,497 |
| 25–29 | 2,717 | 656 | 2,061 | 3,891 | 1,273 | 2,610 | 68,020 | 27,052 | 40,939 |
| 30–34 | 1,375 | 331 | 1,042 | 2,103 | 773 | 1,328 | 27,794 | 12,666 | 15,116 |
| 35–39 | 582 | 171 | 411 | 1,069 | 410 | 658 | 12,114 | 6,229 | 5,877 |
| 40–44 | 296 | 93 | 203 | 674 | 314 | 357 | 5,763 | 3,423 | 2,332 |
| 45–54 | 191 | 60 | 131 | 609 | 287 | 322 | 5,071 | 3,223 | 1,844 |
| 55–64 | 48 | 15 | 33 | 165 | 69 | 96 | 1,358 | 821 | 536 |
| 65+ | 8 | 5 | 3 | 28 | 13 | 15 | 224 | 142 | 82 |
| Unknown Age | 7 | 4 | 3 | 26 | 7 | 19 | 226 | 94 | 129 |
| TOTAL | 14,367 | 3,204 | 11,158 | 17,153 | 4,942 | 12,189 | 413,716 | 136,395 | 277,085 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|------------|--------------|----------------------|---------------|----------------|--------------|--------------|--------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 3 | 1 | 2 | 108 | 31 | 77 | 8 | 5 | 3 |
| 5–9 | 0 | 0 | 0 | 31 | 3 | 26 | 0 | 0 | 0 |
| 10–14 | 11 | 0 | 11 | 1,747 | 95 | 1,652 | 68 | 0 | 68 |
| 15–19 | 698 | 94 | 604 | 83,923 | 12,892 | 70,995 | 2,293 | 378 | 1,914 |
| 20–24 | 1,244 | 264 | 980 | 140,813 | 37,474 | 103,275 | 2,756 | 742 | 2,012 |
| 25–29 | 660 | 195 | 464 | 62,605 | 22,473 | 40,109 | 1,227 | 494 | 732 |
| 30–34 | 312 | 86 | 226 | 26,710 | 11,060 | 15,641 | 517 | 285 | 231 |
| 35–39 | 136 | 33 | 103 | 11,635 | 5,239 | 6,387 | 227 | 150 | 77 |
| 40–44 | 53 | 24 | 29 | 6,127 | 3,284 | 2,837 | 130 | 99 | 29 |
| 45–54 | 51 | 27 | 24 | 6,305 | 4,237 | 2,067 | 132 | 108 | 24 |
| 55–64 | 9 | 5 | 4 | 1,663 | 1,248 | 414 | 32 | 22 | 10 |
| 65+ | 1 | 1 | 0 | 345 | 258 | 87 | 3 | 0 | 3 |
| Unknown Age | 5 | 0 | 5 | 210 | 74 | 135 | 6 | 1 | 5 |
| TOTAL | 3,183 | 730 | 2,452 | 342,222 | 98,368 | 243,702 | 7,399 | 2,284 | 5,108 |

| Age Group | Hispanics | | | Other/Unknown | | |
|--------------|----------------|---------------|----------------|----------------|----------------|----------------|
| | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 52 | 14 | 36 | 241 | 81 | 149 |
| 5–9 | 28 | 1 | 26 | 59 | 9 | 50 |
| 10–14 | 1,405 | 145 | 1,259 | 2,753 | 351 | 2,387 |
| 15–19 | 49,005 | 9,127 | 39,845 | 96,431 | 19,932 | 76,183 |
| 20–24 | 75,538 | 19,172 | 56,318 | 144,494 | 40,593 | 103,446 |
| 25–29 | 37,674 | 12,607 | 25,043 | 66,725 | 23,180 | 43,347 |
| 30–34 | 18,309 | 6,670 | 11,620 | 31,766 | 12,320 | 19,340 |
| 35–39 | 8,876 | 3,383 | 5,481 | 15,850 | 6,371 | 9,415 |
| 40–44 | 4,383 | 1,871 | 2,507 | 8,920 | 4,045 | 4,847 |
| 45–54 | 3,257 | 1,654 | 1,601 | 8,240 | 4,168 | 4,048 |
| 55–64 | 619 | 332 | 286 | 2,354 | 1,241 | 1,104 |
| 65+ | 116 | 63 | 53 | 642 | 348 | 287 |
| Unknown Age | 201 | 63 | 131 | 941 | 333 | 530 |
| TOTAL | 199,463 | 55,102 | 144,206 | 379,416 | 112,972 | 265,133 |

* Includes 48 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

† Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 10 for age-specific cases and rates and Tables 3–5 for total and sex-specific cases and rates.

Cases in the 0–4 age group may include cases due to perinatal transmission.

Table 11B. Chlamydia — Rates of Reported Cases per 100,000 Population by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|--------------|----------------|--------------|-------------|--------------|----------------------|--------------|----------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 2.5 | 2.5 | 2.6 | 0.9 | 0.4 | 1.4 | 4.9 | 3.4 | 6.5 |
| 5–9 | 1.2 | 0.0 | 2.5 | 0.1 | 0.0 | 0.2 | 1.8 | 0.7 | 2.9 |
| 10–14 | 99.2 | 21.1 | 180.1 | 5.5 | 0.2 | 10.5 | 164.6 | 46.1 | 286.5 |
| 15–19 | 2,148.5 | 756.0 | 3,602.5 | 261.3 | 72.5 | 456.4 | 4,151.3 | 2,003.6 | 6,371.5 |
| 20–24 | 2,851.9 | 1,255.6 | 4,518.7 | 533.1 | 250.0 | 822.8 | 5,178.6 | 3,241.2 | 7,122.5 |
| 25–29 | 1,734.5 | 835.5 | 2,638.0 | 305.5 | 206.6 | 396.8 | 2,547.8 | 2,081.8 | 2,987.7 |
| 30–34 | 948.8 | 459.0 | 1,431.4 | 161.4 | 127.2 | 191.0 | 1,079.7 | 1,032.5 | 1,121.6 |
| 35–39 | 437.0 | 260.5 | 608.5 | 82.7 | 67.6 | 95.8 | 513.7 | 560.5 | 471.4 |
| 40–44 | 212.8 | 135.8 | 287.3 | 53.6 | 53.4 | 53.3 | 230.0 | 289.7 | 176.2 |
| 45–54 | 63.8 | 41.7 | 84.3 | 28.8 | 29.1 | 28.5 | 98.1 | 132.6 | 67.3 |
| 55–64 | 20.4 | 13.4 | 26.6 | 9.8 | 9.1 | 10.4 | 33.8 | 44.9 | 24.5 |
| 65+ | 4.2 | 5.8 | 2.8 | 1.8 | 1.9 | 1.7 | 6.4 | 10.3 | 3.9 |
| Unknown Age | | | | | | | | | |
| TOTAL | 668.8 | 303.0 | 1,022.9 | 112.0 | 67.9 | 151.6 | 1,117.9 | 772.0 | 1,432.6 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|--------------|--------------|----------------------|--------------|--------------|--------------|-------------|--------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 7.8 | 5.1 | 10.6 | 1.1 | 0.6 | 1.6 | 0.9 | 1.1 | 0.7 |
| 5–9 | 0.0 | 0.0 | 0.0 | 0.3 | 0.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| 10–14 | 29.2 | 0.0 | 60.6 | 16.3 | 1.7 | 31.6 | 10.0 | 0.0 | 20.2 |
| 15–19 | 1,778.8 | 469.3 | 3,144.5 | 741.6 | 221.5 | 1,291.6 | 385.0 | 126.0 | 647.2 |
| 20–24 | 2,619.3 | 1,080.5 | 4,249.8 | 1,155.6 | 603.5 | 1,728.2 | 561.9 | 310.3 | 800.5 |
| 25–29 | 1,423.1 | 822.6 | 2,046.7 | 529.4 | 375.5 | 686.6 | 321.5 | 273.5 | 364.3 |
| 30–34 | 730.3 | 393.9 | 1,081.8 | 231.2 | 189.7 | 273.3 | 154.2 | 180.8 | 130.0 |
| 35–39 | 368.6 | 175.4 | 569.6 | 107.8 | 96.4 | 119.1 | 82.5 | 116.0 | 52.8 |
| 40–44 | 153.1 | 137.8 | 168.6 | 49.2 | 52.5 | 45.7 | 50.8 | 81.7 | 21.5 |
| 45–54 | 78.2 | 83.1 | 73.2 | 22.0 | 29.7 | 14.3 | 29.0 | 49.8 | 10.1 |
| 55–64 | 19.5 | 22.2 | 17.0 | 6.1 | 9.4 | 3.0 | 9.7 | 14.0 | 5.8 |
| 65+ | 2.8 | 6.1 | 0.0 | 1.0 | 1.8 | 0.5 | 1.1 | 0.0 | 1.9 |
| Unknown Age | | | | | | | | | |
| TOTAL | 625.1 | 284.5 | 970.8 | 180.6 | 105.5 | 253.3 | 128.6 | 80.9 | 174.1 |

| Age Group | Hispanics | | |
|--------------|--------------|--------------|--------------|
| | Total† | Male | Female |
| 0–4 | 1.0 | 0.5 | 1.4 |
| 5–9 | 0.6 | 0.0 | 1.1 |
| 10–14 | 30.3 | 6.1 | 55.5 |
| 15–19 | 1,084.1 | 391.6 | 1,820.0 |
| 20–24 | 1,669.7 | 802.6 | 2,637.3 |
| 25–29 | 873.3 | 549.0 | 1,241.2 |
| 30–34 | 430.7 | 299.6 | 574.0 |
| 35–39 | 225.3 | 167.2 | 286.0 |
| 40–44 | 120.8 | 100.9 | 141.2 |
| 45–54 | 55.8 | 56.3 | 55.3 |
| 55–64 | 17.2 | 19.2 | 15.3 |
| 65+ | 3.7 | 4.7 | 3.0 |
| Unknown Age | | | |
| TOTAL | 380.6 | 207.1 | 559.0 |

* Includes 48 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

† Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 10 for age-specific cases and rates and Tables 3–5 for total and sex-specific cases and rates.

Cases in the 0–4 age group may include cases due to perinatal transmission.

No population data exist for unknown sex, unknown age, or unknown race; therefore rates are not calculated.

Table 12. Chlamydia Among Women 15–25 Years of Age — Reported Cases and Rates of Reported Cases by Age, United States, 2010–2014

| | Age | Cases | Rate per 100,000 Population |
|------|-----|---------|-----------------------------|
| 2010 | 15 | 25,432 | 1,231.1 |
| | 16 | 48,233 | 2,296.7 |
| | 17 | 73,089 | 3,428.0 |
| | 18 | 100,399 | 4,573.2 |
| | 19 | 107,099 | 4,774.3 |
| | 20 | 99,175 | 4,485.9 |
| | 21 | 84,674 | 3,973.3 |
| | 22 | 69,755 | 3,342.6 |
| | 23 | 56,264 | 2,734.2 |
| | 24 | 46,126 | 2,212.0 |
| 2011 | 25 | 37,155 | 1,768.4 |
| | 15 | 25,792 | 1,272.2 |
| | 16 | 48,942 | 2,368.5 |
| | 17 | 75,143 | 3,569.5 |
| | 18 | 104,501 | 4,902.9 |
| | 19 | 112,440 | 5,122.9 |
| | 20 | 107,958 | 4,804.7 |
| | 21 | 95,195 | 4,236.2 |
| | 22 | 77,799 | 3,605.2 |
| | 23 | 62,339 | 2,953.3 |
| 2012 | 24 | 50,243 | 2,417.5 |
| | 25 | 40,711 | 1,943.9 |
| | 15 | 24,453 | 1,207.2 |
| | 16 | 45,041 | 2,212.8 |
| | 17 | 69,465 | 3,346.4 |
| | 18 | 99,459 | 4,699.5 |
| | 19 | 108,012 | 5,036.6 |
| | 20 | 104,425 | 4,727.7 |
| | 21 | 96,456 | 4,266.0 |
| | 22 | 81,292 | 3,593.9 |
| 2013 | 23 | 65,473 | 3,011.7 |
| | 24 | 52,983 | 2,489.8 |
| | 25 | 41,911 | 1,999.6 |
| | 15 | 21,680 | 1,070.3 |
| | 16 | 40,528 | 1,994.3 |
| | 17 | 61,666 | 3,018.5 |
| | 18 | 90,330 | 4,332.6 |
| | 19 | 102,234 | 4,806.0 |
| | 20 | 99,556 | 4,617.4 |
| | 21 | 93,713 | 4,219.8 |
| 2014 | 22 | 81,884 | 3,600.6 |
| | 23 | 68,600 | 3,013.5 |
| | 24 | 55,792 | 2,548.7 |
| | 25 | 44,330 | 2,068.5 |
| | 15 | 20,096 | 992.1 |
| | 16 | 38,507 | 1,894.8 |
| | 17 | 58,940 | 2,885.1 |
| | 18 | 87,040 | 4,174.8 |
| | 19 | 98,711 | 4,640.4 |
| | 20 | 98,480 | 4,567.5 |
| 2014 | 21 | 94,204 | 4,241.9 |
| | 22 | 82,581 | 3,631.2 |
| | 23 | 71,535 | 3,142.5 |
| | 24 | 59,076 | 2,698.8 |
| | 25 | 47,696 | 2,225.6 |

NOTE: This table should be used only for age comparisons. Cases reported with unknown sex are not included in this table.

Table 13. Gonorrhea — Reported Cases and Rates of Reported Cases by State, Ranked by Rates, United States, 2014

| Rank* | State | Cases | Rate per 100,000 Population |
|-------|--------------------|----------------|-----------------------------|
| 1 | Louisiana | 9,002 | 194.6 |
| 2 | Mississippi | 5,625 | 188.1 |
| 3 | Alaska | 1,341 | 182.4 |
| 4 | South Carolina | 8,253 | 172.8 |
| 5 | Oklahoma | 6,137 | 159.4 |
| 6 | Alabama | 7,677 | 158.8 |
| 7 | Arkansas | 4,539 | 153.4 |
| 8 | North Carolina | 14,415 | 146.4 |
| 9 | Ohio | 16,237 | 140.3 |
| 10 | Delaware | 1,279 | 138.2 |
| 11 | Georgia | 13,770 | 137.8 |
| 12 | Texas | 35,322 | 133.6 |
| 13 | Illinois | 15,970 | 124.0 |
| 14 | Missouri | 7,387 | 122.2 |
| 15 | California | 45,408 | 118.5 |
| 16 | Arizona | 7,750 | 117.0 |
| 17 | Nevada | 3,188 | 114.3 |
| 18 | Indiana | 7,289 | 110.9 |
| 19 | Tennessee | 7,199 | 110.8 |
| | U.S. TOTAL† | 350,062 | 110.7 |
| 20 | New Mexico | 2,246 | 107.7 |
| 21 | Florida | 20,944 | 107.1 |
| 22 | New York | 20,758 | 105.6 |
| 23 | South Dakota | 892 | 105.6 |
| 24 | Maryland | 6,108 | 103.0 |
| 25 | Virginia | 8,250 | 99.9 |
| 26 | Pennsylvania | 12,710 | 99.5 |
| 27 | Kentucky | 4,353 | 99.0 |
| 28 | Michigan | 9,688 | 97.9 |
| 29 | North Dakota | 694 | 95.9 |
| 30 | Washington | 6,221 | 89.2 |
| 31 | Kansas | 2,568 | 88.7 |
| 32 | Nebraska | 1,459 | 78.1 |
| 33 | Minnesota | 4,073 | 75.1 |
| 34 | New Jersey | 6,636 | 74.6 |
| 35 | Hawaii | 1,020 | 72.6 |
| 36 | Wisconsin | 4,078 | 71.0 |
| 37 | Connecticut | 2,333 | 64.9 |
| 38 | Colorado | 3,170 | 60.2 |
| 39 | Oregon | 2,320 | 59.0 |
| 40 | Massachusetts | 3,817 | 57.0 |
| 41 | Rhode Island | 590 | 56.1 |
| 42 | Iowa | 1,641 | 53.1 |
| 43 | Utah | 1,441 | 49.7 |
| 44 | West Virginia | 841 | 45.4 |
| 45 | Montana | 434 | 42.8 |
| 46 | Idaho | 443 | 27.5 |
| 47 | Wyoming | 116 | 19.9 |
| 48 | Maine | 237 | 17.8 |
| 49 | New Hampshire | 226 | 17.1 |
| 50 | Vermont | 84 | 13.4 |

* States were ranked by rate, then case count, then in alphabetical order, with rates shown rounded to the nearest tenth.

† Total includes cases reported by the District of Columbia with 1,883 cases and a rate of 291.3, but excludes outlying areas (Guam with 99 cases and rate of 61.7, Puerto Rico with 454 cases and rate of 12.6, and Virgin Islands with 84 cases and rate of 80.2)

Table 14. Gonorrhea — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 7,933 | 9,132 | 9,270 | 8,377 | 7,677 | 166.0 | 190.1 | 192.2 | 173.3 | 158.8 |
| Alaska | 1,273 | 984 | 726 | 1,128 | 1,341 | 179.2 | 136.2 | 99.3 | 153.4 | 182.4 |
| Arizona | 3,249 | 4,564 | 5,809 | 6,412 | 7,750 | 50.8 | 70.4 | 88.6 | 96.8 | 117.0 |
| Arkansas | 4,769 | 4,687 | 4,307 | 4,007 | 4,539 | 163.6 | 159.5 | 146.0 | 135.4 | 153.4 |
| California | 26,441 | 27,516 | 33,579 | 38,166 | 45,408 | 71.0 | 73.0 | 88.3 | 99.6 | 118.5 |
| Colorado | 2,787 | 2,363 | 2,822 | 2,820 | 3,170 | 55.4 | 46.2 | 54.4 | 53.5 | 60.2 |
| Connecticut | 2,569 | 2,449 | 2,133 | 2,860 | 2,333 | 71.9 | 68.4 | 59.4 | 79.5 | 64.9 |
| Delaware | 1,010 | 827 | 899 | 1,390 | 1,279 | 112.5 | 91.2 | 98.0 | 150.1 | 138.2 |
| District of Columbia | 2,104 | 2,569 | 2,402 | 2,478 | 1,883 | 349.7 | 415.7 | 379.9 | 383.3 | 291.3 |
| Florida | 20,163 | 19,689 | 19,462 | 20,818 | 20,944 | 107.2 | 103.3 | 100.7 | 106.5 | 107.1 |
| Georgia | 15,852 | 16,428 | 15,326 | 14,252 | 13,770 | 163.6 | 167.4 | 154.5 | 142.6 | 137.8 |
| Hawaii | 759 | 685 | 815 | 718 | 1,020 | 55.8 | 49.8 | 58.5 | 51.1 | 72.6 |
| Idaho | 147 | 162 | 167 | 211 | 443 | 9.4 | 10.2 | 10.5 | 13.1 | 27.5 |
| Illinois | 15,777 | 17,037 | 18,149 | 16,464 | 15,970 | 123.0 | 132.4 | 141.0 | 127.8 | 124.0 |
| Indiana | 6,496 | 6,569 | 7,338 | 7,144 | 7,289 | 100.2 | 100.8 | 112.2 | 108.7 | 110.9 |
| Iowa | 1,803 | 1,920 | 2,006 | 1,472 | 1,641 | 59.2 | 62.7 | 65.3 | 47.6 | 53.1 |
| Kansas | 2,084 | 2,209 | 2,228 | 2,161 | 2,568 | 73.0 | 76.9 | 77.2 | 74.7 | 88.7 |
| Kentucky | 4,345 | 4,521 | 4,283 | 4,315 | 4,353 | 100.1 | 103.5 | 97.8 | 98.2 | 99.0 |
| Louisiana | 8,912 | 9,169 | 8,873 | 8,669 | 9,002 | 196.6 | 200.4 | 192.8 | 187.4 | 194.6 |
| Maine | 162 | 272 | 456 | 245 | 237 | 12.2 | 20.5 | 34.3 | 18.4 | 17.8 |
| Maryland | 7,413 | 6,458 | 5,686 | 5,989 | 6,108 | 128.4 | 110.8 | 96.6 | 101.0 | 103.0 |
| Massachusetts | 2,483 | 2,353 | 2,628 | 3,106 | 3,817 | 37.9 | 35.7 | 39.5 | 46.4 | 57.0 |
| Michigan | 13,627 | 12,901 | 12,584 | 10,569 | 9,688 | 137.9 | 130.6 | 127.3 | 106.8 | 97.9 |
| Minnesota | 2,119 | 2,284 | 3,082 | 3,873 | 4,073 | 40.0 | 42.7 | 57.3 | 71.5 | 75.1 |
| Mississippi | 6,195 | 5,814 | 6,875 | 5,096 | 5,625 | 208.8 | 195.2 | 230.3 | 170.4 | 188.1 |
| Missouri | 7,159 | 7,802 | 7,889 | 7,546 | 7,387 | 119.5 | 129.8 | 131.0 | 124.8 | 122.2 |
| Montana | 102 | 85 | 108 | 224 | 434 | 10.3 | 8.5 | 10.7 | 22.1 | 42.8 |
| Nebraska | 1,187 | 1,352 | 1,429 | 1,385 | 1,459 | 65.0 | 73.4 | 77.0 | 74.1 | 78.1 |
| Nevada | 1,728 | 2,000 | 2,264 | 2,714 | 3,188 | 64.0 | 73.4 | 82.1 | 97.3 | 114.3 |
| New Hampshire | 151 | 130 | 147 | 121 | 226 | 11.5 | 9.9 | 11.1 | 9.1 | 17.1 |
| New Jersey | 5,872 | 7,348 | 7,486 | 7,014 | 6,636 | 66.8 | 83.3 | 84.4 | 78.8 | 74.6 |
| New Mexico | 1,229 | 1,839 | 1,883 | 1,918 | 2,246 | 59.7 | 88.3 | 90.3 | 92.0 | 107.7 |
| New York | 18,320 | 20,706 | 22,571 | 19,919 | 20,758 | 94.5 | 106.4 | 115.3 | 101.4 | 105.6 |
| North Carolina | 14,111 | 17,454 | 14,318 | 13,666 | 14,415 | 148.0 | 180.8 | 146.8 | 138.8 | 146.4 |
| North Dakota | 204 | 251 | 335 | 492 | 694 | 30.3 | 36.7 | 47.9 | 68.0 | 95.9 |
| Ohio | 16,496 | 16,726 | 16,493 | 16,619 | 16,237 | 143.0 | 144.9 | 142.9 | 143.6 | 140.3 |
| Oklahoma | 4,369 | 4,215 | 4,441 | 5,303 | 6,137 | 116.5 | 111.2 | 116.4 | 137.7 | 159.4 |
| Oregon | 1,076 | 1,489 | 1,464 | 1,729 | 2,320 | 28.1 | 38.5 | 37.5 | 44.0 | 59.0 |
| Pennsylvania | 12,883 | 13,770 | 15,390 | 13,874 | 12,710 | 101.4 | 108.1 | 120.6 | 108.6 | 99.5 |
| Rhode Island | 291 | 360 | 507 | 454 | 590 | 27.6 | 34.2 | 48.3 | 43.2 | 56.1 |
| South Carolina | 7,970 | 8,350 | 7,638 | 7,194 | 8,253 | 172.3 | 178.4 | 161.7 | 150.7 | 172.8 |
| South Dakota | 468 | 602 | 707 | 784 | 892 | 57.5 | 73.1 | 84.8 | 92.8 | 105.6 |
| Tennessee | 7,121 | 7,667 | 9,098 | 7,376 | 7,199 | 112.2 | 119.7 | 140.9 | 113.5 | 110.8 |
| Texas | 31,788 | 30,930 | 32,473 | 33,835 | 35,322 | 126.4 | 120.5 | 124.6 | 127.9 | 133.6 |
| Utah | 310 | 277 | 479 | 951 | 1,441 | 11.2 | 9.8 | 16.8 | 32.8 | 49.7 |
| Vermont | 58 | 48 | 99 | 97 | 84 | 9.3 | 7.7 | 15.8 | 15.5 | 13.4 |
| Virginia | 7,402 | 6,518 | 6,885 | 6,952 | 8,250 | 92.5 | 80.5 | 84.1 | 84.2 | 99.9 |
| Washington | 2,864 | 2,737 | 3,238 | 4,369 | 6,221 | 42.6 | 40.1 | 46.9 | 62.7 | 89.2 |
| West Virginia | 579 | 796 | 831 | 1,063 | 841 | 31.2 | 42.9 | 44.8 | 57.3 | 45.4 |
| Wisconsin | 5,091 | 4,789 | 4,704 | 4,599 | 4,078 | 89.5 | 83.8 | 82.1 | 80.1 | 71.0 |
| Wyoming | 40 | 46 | 44 | 66 | 116 | 7.1 | 8.1 | 7.6 | 11.3 | 19.9 |
| U.S. TOTAL | 309,341 | 321,849 | 334,826 | 333,004 | 350,062 | 100.2 | 103.3 | 106.7 | 105.3 | 110.7 |
| Northeast | 42,789 | 47,436 | 51,417 | 47,690 | 47,391 | 77.4 | 85.4 | 92.2 | 85.2 | 84.7 |
| Midwest | 72,511 | 74,442 | 76,944 | 73,108 | 71,976 | 108.3 | 110.8 | 114.3 | 108.2 | 106.6 |
| South | 152,036 | 155,224 | 153,067 | 150,780 | 155,597 | 132.7 | 133.8 | 130.5 | 127.4 | 131.4 |
| West | 42,005 | 44,747 | 53,398 | 61,426 | 75,098 | 58.4 | 61.4 | 72.6 | 82.7 | 101.1 |
| Guam | 97 | 96 | 92 | 92 | 99 | 60.8 | 60.2 | 57.5 | 57.4 | 61.7 |
| Puerto Rico | 312 | 341 | 345 | 356 | 454 | 8.4 | 9.2 | 9.4 | 9.8 | 12.6 |
| Virgin Islands | 151 | 139 | 136 | 58 | 84 | 142.1 | 131.4 | 129.2 | 55.4 | 80.2 |
| OUTLYING AREAS | 560 | 576 | 573 | 506 | 637 | 14.0 | 14.5 | 14.6 | 13.0 | 16.4 |
| TOTAL | 309,901 | 322,425 | 335,399 | 333,510 | 350,699 | 99.1 | 102.2 | 105.5 | 104.2 | 109.6 |

Table 15. Gonorrhea Among Women — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 4,432 | 5,103 | 5,187 | 4,668 | 4,090 | 180.2 | 206.3 | 208.9 | 187.6 | 164.4 |
| Alaska | 698 | 515 | 385 | 589 | 665 | 204.9 | 148.2 | 109.9 | 168.5 | 190.2 |
| Arizona | 1,553 | 2,212 | 2,827 | 3,102 | 3,564 | 48.3 | 67.9 | 85.8 | 93.1 | 107.0 |
| Arkansas | 2,729 | 2,687 | 2,432 | 2,160 | 2,527 | 183.9 | 179.7 | 162.1 | 143.4 | 167.8 |
| California | 10,546 | 10,811 | 13,045 | 14,258 | 16,009 | 56.3 | 57.1 | 68.2 | 74.0 | 83.1 |
| Colorado | 1,514 | 1,285 | 1,362 | 1,243 | 1,318 | 60.4 | 50.4 | 52.7 | 47.4 | 50.3 |
| Connecticut | 1,449 | 1,378 | 1,153 | 1,419 | 1,108 | 79.0 | 75.1 | 62.6 | 77.0 | 60.2 |
| Delaware | 621 | 471 | 496 | 763 | 693 | 134.1 | 100.8 | 104.9 | 159.7 | 145.0 |
| District of Columbia | 1,073 | 1,209 | 1,006 | 953 | 858 | 338.0 | 371.1 | 301.8 | 280.1 | 252.2 |
| Florida | 10,240 | 9,999 | 9,570 | 9,718 | 9,228 | 106.5 | 102.7 | 97.0 | 97.3 | 92.4 |
| Georgia | 8,297 | 8,589 | 7,921 | 7,060 | 6,552 | 167.3 | 171.4 | 156.3 | 138.1 | 128.2 |
| Hawaii | 314 | 273 | 299 | 264 | 350 | 46.2 | 39.9 | 43.3 | 38.0 | 50.4 |
| Idaho | 68 | 79 | 63 | 87 | 196 | 8.7 | 10.0 | 7.9 | 10.8 | 24.3 |
| Illinois | 8,924 | 9,500 | 9,837 | 8,574 | 7,559 | 136.5 | 144.9 | 150.1 | 130.8 | 115.3 |
| Indiana | 3,598 | 3,690 | 4,139 | 3,796 | 3,819 | 109.2 | 111.5 | 124.7 | 113.8 | 114.5 |
| Iowa | 1,179 | 1,217 | 1,170 | 812 | 862 | 76.7 | 78.8 | 75.5 | 52.2 | 55.4 |
| Kansas | 1,235 | 1,360 | 1,339 | 1,222 | 1,464 | 85.9 | 94.1 | 92.3 | 84.2 | 100.8 |
| Kentucky | 2,487 | 2,596 | 2,328 | 2,331 | 2,270 | 112.8 | 117.0 | 104.7 | 104.4 | 101.7 |
| Louisiana | 4,824 | 5,263 | 5,080 | 4,927 | 5,049 | 208.5 | 225.3 | 216.2 | 208.6 | 213.8 |
| Maine | 75 | 122 | 240 | 119 | 98 | 11.1 | 18.0 | 35.4 | 17.5 | 14.5 |
| Maryland | 4,028 | 3,461 | 2,878 | 2,841 | 2,793 | 135.1 | 115.1 | 94.9 | 93.0 | 91.5 |
| Massachusetts | 1,004 | 1,083 | 1,076 | 1,168 | 1,215 | 29.7 | 31.9 | 31.4 | 33.9 | 35.2 |
| Michigan | 7,971 | 7,599 | 7,194 | 5,865 | 5,129 | 158.3 | 151.1 | 142.9 | 116.5 | 101.8 |
| Minnesota | 1,248 | 1,294 | 1,676 | 2,037 | 1,802 | 46.7 | 48.1 | 61.9 | 74.7 | 66.1 |
| Mississippi | 3,602 | 3,344 | 3,834 | 2,726 | 2,987 | 236.0 | 218.3 | 249.7 | 177.4 | 194.4 |
| Missouri | 3,951 | 4,195 | 4,209 | 3,944 | 3,620 | 129.3 | 136.8 | 137.1 | 128.0 | 117.5 |
| Montana | 56 | 51 | 58 | 127 | 221 | 11.4 | 10.3 | 11.6 | 25.1 | 43.7 |
| Nebraska | 675 | 823 | 784 | 694 | 770 | 73.4 | 88.7 | 84.0 | 73.9 | 82.0 |
| Nevada | 830 | 879 | 982 | 1,203 | 1,294 | 62.1 | 65.2 | 71.8 | 86.9 | 93.4 |
| New Hampshire | 59 | 59 | 61 | 52 | 91 | 8.8 | 8.8 | 9.1 | 7.8 | 13.6 |
| New Jersey | 3,115 | 3,916 | 3,798 | 3,484 | 3,082 | 69.0 | 86.6 | 83.6 | 76.5 | 67.7 |
| New Mexico | 610 | 925 | 857 | 823 | 961 | 58.6 | 87.9 | 81.4 | 78.3 | 91.4 |
| New York | 8,718 | 9,716 | 10,021 | 8,020 | 7,077 | 87.2 | 96.8 | 99.4 | 79.3 | 70.0 |
| North Carolina | 8,314 | 10,076 | 8,093 | 7,547 | 7,759 | 170.0 | 203.4 | 161.9 | 149.5 | 153.7 |
| North Dakota | 140 | 149 | 207 | 301 | 385 | 42.1 | 44.1 | 60.2 | 85.2 | 108.9 |
| Ohio | 10,034 | 10,009 | 9,706 | 9,176 | 8,735 | 169.9 | 169.5 | 164.5 | 155.2 | 147.8 |
| Oklahoma | 2,493 | 2,395 | 2,652 | 3,000 | 3,451 | 131.6 | 125.1 | 137.8 | 154.4 | 177.6 |
| Oregon | 477 | 602 | 528 | 566 | 786 | 24.7 | 30.8 | 26.8 | 28.5 | 39.6 |
| Pennsylvania | 7,268 | 7,687 | 8,360 | 7,206 | 6,164 | 111.6 | 117.7 | 128.0 | 110.3 | 94.4 |
| Rhode Island | 121 | 167 | 232 | 192 | 218 | 22.2 | 30.8 | 42.8 | 35.4 | 40.2 |
| South Carolina | 4,905 | 4,981 | 4,416 | 4,050 | 4,527 | 206.5 | 207.3 | 182.0 | 165.2 | 184.6 |
| South Dakota | 290 | 399 | 446 | 464 | 557 | 71.3 | 97.1 | 107.5 | 110.3 | 132.5 |
| Tennessee | 3,884 | 4,112 | 4,721 | 3,617 | 3,419 | 119.4 | 125.3 | 142.7 | 108.7 | 102.7 |
| Texas | 17,246 | 16,476 | 17,151 | 17,206 | 17,253 | 136.1 | 127.4 | 130.8 | 129.4 | 129.7 |
| Utah | 75 | 66 | 132 | 373 | 565 | 5.5 | 4.7 | 9.3 | 25.9 | 39.2 |
| Vermont | 24 | 24 | 54 | 46 | 35 | 7.6 | 7.6 | 17.0 | 14.5 | 11.0 |
| Virginia | 4,146 | 3,693 | 3,734 | 3,678 | 4,361 | 101.7 | 89.6 | 89.7 | 87.6 | 103.9 |
| Washington | 1,044 | 1,066 | 1,230 | 1,704 | 2,504 | 30.9 | 31.2 | 35.6 | 48.8 | 71.8 |
| West Virginia | 326 | 467 | 438 | 539 | 461 | 34.7 | 49.7 | 46.6 | 57.4 | 49.1 |
| Wisconsin | 3,164 | 2,907 | 2,640 | 2,455 | 2,046 | 110.5 | 101.1 | 91.6 | 84.9 | 70.8 |
| Wyoming | 19 | 25 | 19 | 39 | 61 | 6.9 | 9.0 | 6.7 | 13.7 | 21.4 |
| U.S. TOTAL | 165,693 | 171,005 | 172,066 | 163,208 | 162,608 | 105.6 | 108.0 | 107.9 | 101.7 | 101.3 |
| Northeast | 21,833 | 24,152 | 24,995 | 21,706 | 19,088 | 76.7 | 84.7 | 87.3 | 75.6 | 66.5 |
| Midwest | 42,409 | 43,142 | 43,347 | 39,340 | 36,748 | 124.7 | 126.5 | 126.9 | 114.8 | 107.3 |
| South | 83,647 | 84,922 | 81,937 | 77,784 | 78,278 | 143.2 | 143.6 | 137.1 | 129.0 | 129.8 |
| West | 17,804 | 18,789 | 21,787 | 24,378 | 28,494 | 49.3 | 51.4 | 59.1 | 65.5 | 76.6 |
| Guam | 45 | 44 | 46 | 43 | 47 | 57.4 | 56.0 | 58.4 | 54.4 | 59.5 |
| Puerto Rico | 141 | 140 | 157 | 120 | 161 | 7.3 | 7.2 | 8.2 | 6.4 | 8.5 |
| Virgin Islands | 96 | 94 | 92 | 41 | 54 | 170.3 | 167.3 | 164.2 | 73.4 | 96.7 |
| OUTLYING AREAS | 282 | 278 | 295 | 204 | 262 | 13.6 | 13.4 | 14.4 | 10.1 | 13.0 |
| TOTAL | 165,975 | 171,283 | 172,361 | 163,412 | 162,870 | 104.4 | 106.8 | 106.7 | 100.6 | 100.2 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 16. Gonorrhea Among Men — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|-------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 3,430 | 3,825 | 4,034 | 3,680 | 3,563 | 147.8 | 164.2 | 172.5 | 156.9 | 151.9 |
| Alaska | 575 | 469 | 341 | 539 | 676 | 155.6 | 125.0 | 89.4 | 139.8 | 175.3 |
| Arizona | 1,696 | 2,350 | 2,981 | 3,310 | 4,186 | 53.4 | 72.9 | 91.5 | 100.5 | 127.0 |
| Arkansas | 2,038 | 1,996 | 1,873 | 1,843 | 2,007 | 142.4 | 138.3 | 129.3 | 126.8 | 138.1 |
| California | 15,773 | 16,598 | 20,431 | 23,849 | 29,310 | 85.2 | 88.5 | 108.0 | 125.1 | 153.7 |
| Colorado | 1,273 | 1,078 | 1,460 | 1,577 | 1,852 | 50.5 | 42.0 | 56.1 | 59.6 | 70.0 |
| Connecticut | 1,120 | 1,071 | 978 | 1,440 | 1,219 | 64.4 | 61.4 | 55.9 | 82.1 | 69.5 |
| Delaware | 389 | 356 | 403 | 627 | 586 | 89.4 | 80.9 | 90.7 | 140.0 | 130.8 |
| District of Columbia | 1,028 | 1,360 | 1,386 | 1,519 | 1,011 | 361.7 | 465.4 | 463.5 | 496.0 | 330.1 |
| Florida | 9,906 | 9,675 | 9,892 | 11,049 | 11,686 | 107.8 | 103.8 | 104.7 | 115.5 | 122.2 |
| Georgia | 7,421 | 7,684 | 7,301 | 7,075 | 7,137 | 156.9 | 160.0 | 150.5 | 144.9 | 146.2 |
| Hawaii | 445 | 412 | 516 | 454 | 669 | 65.3 | 59.7 | 73.5 | 64.0 | 94.3 |
| Idaho | 78 | 83 | 104 | 124 | 247 | 9.9 | 10.5 | 13.0 | 15.4 | 30.6 |
| Illinois | 6,824 | 7,513 | 8,283 | 7,872 | 8,386 | 108.5 | 119.0 | 131.1 | 124.4 | 132.6 |
| Indiana | 2,884 | 2,867 | 3,188 | 3,347 | 3,465 | 90.4 | 89.4 | 99.1 | 103.4 | 107.1 |
| Iowa | 624 | 703 | 836 | 660 | 779 | 41.4 | 46.3 | 54.8 | 43.0 | 50.8 |
| Kansas | 849 | 849 | 889 | 939 | 1,104 | 60.0 | 59.5 | 61.9 | 65.1 | 76.6 |
| Kentucky | 1,854 | 1,913 | 1,948 | 1,966 | 2,068 | 86.8 | 89.0 | 90.3 | 90.9 | 95.6 |
| Louisiana | 3,540 | 3,739 | 3,793 | 3,742 | 3,953 | 159.5 | 167.0 | 168.4 | 165.3 | 174.6 |
| Maine | 86 | 150 | 216 | 126 | 137 | 13.2 | 23.1 | 33.2 | 19.4 | 21.1 |
| Maryland | 3,377 | 2,992 | 2,806 | 3,145 | 3,304 | 121.0 | 106.1 | 98.4 | 109.4 | 114.9 |
| Massachusetts | 1,479 | 1,269 | 1,551 | 1,932 | 2,590 | 46.7 | 39.8 | 48.2 | 59.5 | 79.8 |
| Michigan | 5,634 | 5,281 | 5,372 | 4,694 | 4,551 | 116.2 | 109.0 | 110.8 | 96.6 | 93.7 |
| Minnesota | 871 | 990 | 1,395 | 1,835 | 2,260 | 33.1 | 37.3 | 52.2 | 68.1 | 83.9 |
| Mississippi | 2,593 | 2,470 | 3,039 | 2,370 | 2,637 | 179.9 | 170.8 | 209.7 | 162.9 | 181.3 |
| Missouri | 3,208 | 3,607 | 3,680 | 3,602 | 3,767 | 109.4 | 122.5 | 124.7 | 121.5 | 127.1 |
| Montana | 46 | 34 | 50 | 97 | 213 | 9.3 | 6.8 | 9.9 | 19.0 | 41.8 |
| Nebraska | 512 | 528 | 641 | 674 | 686 | 56.5 | 57.7 | 69.5 | 72.5 | 73.8 |
| Nevada | 898 | 1,121 | 1,280 | 1,509 | 1,892 | 65.9 | 81.6 | 92.0 | 107.4 | 134.6 |
| New Hampshire | 92 | 71 | 86 | 69 | 135 | 14.2 | 10.9 | 13.2 | 10.6 | 20.7 |
| New Jersey | 2,727 | 3,400 | 3,673 | 3,514 | 3,544 | 63.7 | 79.1 | 85.0 | 80.9 | 81.6 |
| New Mexico | 619 | 914 | 1,025 | 1,095 | 1,284 | 60.8 | 88.7 | 99.3 | 105.9 | 124.2 |
| New York | 9,601 | 10,977 | 12,529 | 11,844 | 13,624 | 102.4 | 116.4 | 132.0 | 124.2 | 142.9 |
| North Carolina | 5,712 | 7,300 | 6,180 | 6,113 | 6,652 | 123.0 | 155.2 | 130.0 | 127.3 | 138.6 |
| North Dakota | 64 | 101 | 127 | 191 | 309 | 18.8 | 29.2 | 35.7 | 51.6 | 83.5 |
| Ohio | 6,421 | 6,717 | 6,787 | 7,443 | 7,502 | 114.0 | 119.1 | 120.3 | 131.5 | 132.6 |
| Oklahoma | 1,873 | 1,708 | 1,789 | 2,303 | 2,685 | 100.9 | 91.0 | 94.7 | 120.7 | 140.8 |
| Oregon | 599 | 887 | 936 | 1,163 | 1,532 | 31.6 | 46.3 | 48.5 | 59.8 | 78.8 |
| Pennsylvania | 5,615 | 6,078 | 7,025 | 6,659 | 6,543 | 90.7 | 97.8 | 112.8 | 106.7 | 104.8 |
| Rhode Island | 170 | 193 | 275 | 262 | 372 | 33.4 | 38.0 | 54.1 | 51.4 | 73.0 |
| South Carolina | 3,056 | 3,351 | 3,196 | 3,133 | 3,689 | 135.8 | 147.2 | 139.1 | 134.9 | 158.8 |
| South Dakota | 177 | 202 | 259 | 320 | 335 | 43.4 | 48.9 | 61.9 | 75.4 | 78.9 |
| Tennessee | 3,235 | 3,555 | 4,368 | 3,758 | 3,778 | 104.6 | 113.9 | 138.7 | 118.7 | 119.3 |
| Texas | 14,524 | 14,448 | 15,286 | 16,410 | 18,035 | 116.5 | 113.4 | 118.1 | 124.8 | 137.2 |
| Utah | 235 | 211 | 347 | 578 | 876 | 16.9 | 14.9 | 24.2 | 39.6 | 60.0 |
| Vermont | 33 | 24 | 45 | 51 | 49 | 10.7 | 7.8 | 14.6 | 16.5 | 15.8 |
| Virginia | 3,248 | 2,814 | 3,145 | 3,272 | 3,879 | 82.7 | 70.8 | 78.2 | 80.5 | 95.5 |
| Washington | 1,818 | 1,671 | 2,008 | 2,665 | 3,717 | 54.3 | 49.0 | 58.3 | 76.5 | 106.7 |
| West Virginia | 253 | 329 | 393 | 524 | 380 | 27.7 | 36.0 | 42.9 | 57.2 | 41.5 |
| Wisconsin | 1,926 | 1,880 | 2,064 | 2,140 | 2,027 | 68.2 | 66.3 | 72.6 | 75.0 | 71.1 |
| Wyoming | 21 | 21 | 25 | 27 | 55 | 7.3 | 7.2 | 8.5 | 9.1 | 18.5 |
| U.S. TOTAL | 142,470 | 149,835 | 162,235 | 169,130 | 186,943 | 93.9 | 97.7 | 105.0 | 108.7 | 120.1 |
| Northeast | 20,923 | 23,233 | 26,378 | 25,897 | 28,213 | 77.9 | 86.1 | 97.2 | 95.1 | 103.6 |
| Midwest | 29,994 | 31,238 | 33,521 | 33,717 | 35,171 | 91.1 | 94.5 | 101.1 | 101.3 | 105.6 |
| South | 67,477 | 69,515 | 70,832 | 72,529 | 77,050 | 120.2 | 122.2 | 123.2 | 124.9 | 132.7 |
| West | 24,076 | 25,849 | 31,504 | 36,987 | 46,509 | 67.2 | 71.1 | 85.9 | 99.9 | 125.6 |
| Guam | 52 | 52 | 46 | 49 | 52 | 64.2 | 64.2 | 56.7 | 60.2 | 63.9 |
| Puerto Rico | 171 | 201 | 188 | 236 | 293 | 9.6 | 11.3 | 10.7 | 13.6 | 16.9 |
| Virgin Islands | 55 | 45 | 44 | 17 | 30 | 110.2 | 90.7 | 89.3 | 34.8 | 61.3 |
| OUTLYING AREAS | 278 | 298 | 278 | 302 | 375 | 14.5 | 15.6 | 14.7 | 16.2 | 20.2 |
| TOTAL | 142,748 | 150,133 | 162,513 | 169,432 | 187,318 | 92.9 | 96.7 | 103.9 | 107.6 | 118.9 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 17. Gonorrhea — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|----------------|----------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 8,351 | 8,577 | 8,299 | 5,452 | 7,256 | 158.0 | 159.5 | 152.1 | 98.7 | 131.4 |
| Austin-Round Rock, TX | 1,932 | 2,009 | 2,204 | 2,570 | 2,860 | 112.6 | 112.6 | 120.2 | 136.5 | 151.9 |
| Baltimore-Columbia-Towson, MD | 4,369 | 3,634 | 2,974 | 3,233 | 3,459 | 161.2 | 133.2 | 108.0 | 116.7 | 124.8 |
| Birmingham-Hoover, AL | 2,363 | 2,550 | 2,340 | 2,130 | 1,957 | 209.5 | 225.2 | 205.9 | 186.8 | 171.6 |
| Boston-Cambridge-Newton, MA-NH | 1,881 | 1,671 | 1,995 | 2,372 | 2,716 | 41.3 | 36.4 | 43.0 | 50.6 | 58.0 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 1,227 | 1,543 | 2,172 | 1,232 | 1,342 | 108.1 | 136.1 | 191.5 | 108.6 | 118.3 |
| Charlotte-Concord-Gastonia, NC-SC | 3,060 | 3,832 | 3,172 | 3,058 | 3,645 | 138.0 | 169.7 | 138.1 | 130.9 | 156.1 |
| Chicago-Naperville-Elgin, IL-IN-WI | 12,380 | 13,188 | 14,304 | 12,793 | 12,630 | 130.9 | 138.8 | 150.2 | 134.1 | 132.4 |
| Cincinnati, OH-KY-IN | 3,378 | 3,515 | 3,227 | 3,229 | 3,346 | 159.7 | 165.6 | 151.6 | 151.1 | 156.5 |
| Cleveland-Elyria, OH | 3,608 | 3,930 | 4,203 | 4,155 | 3,802 | 173.7 | 190.0 | 203.7 | 201.2 | 184.1 |
| Columbus, OH | 3,354 | 3,038 | 2,859 | 3,220 | 3,260 | 176.3 | 157.9 | 147.1 | 163.7 | 165.7 |
| Dallas-Fort Worth-Arlington, TX | 8,771 | 8,743 | 7,842 | 8,354 | 9,195 | 136.5 | 132.8 | 117.0 | 122.7 | 135.0 |
| Denver-Aurora-Lakewood, CO | 2,344 | 1,662 | 2,055 | 1,828 | 2,016 | 92.2 | 63.9 | 77.7 | 67.8 | 74.7 |
| Detroit-Warren-Dearborn, MI | 9,160 | 8,924 | 8,062 | 6,564 | 5,311 | 213.2 | 208.2 | 187.8 | 152.8 | 123.7 |
| Hartford-West Hartford-East Hartford, CT | 1,126 | 1,036 | 744 | 1,065 | 894 | 92.9 | 85.4 | 61.3 | 87.6 | 73.6 |
| Houston-The Woodlands-Sugar Land, TX | 7,645 | 6,861 | 7,582 | 7,783 | 8,299 | 129.1 | 113.2 | 122.7 | 123.3 | 131.5 |
| Indianapolis-Carmel-Anderson, IN | 3,140 | 3,128 | 3,738 | 3,616 | 3,759 | 166.3 | 163.8 | 193.8 | 185.1 | 192.4 |
| Jacksonville, FL | 2,128 | 2,040 | 1,948 | 2,321 | 2,608 | 158.1 | 150.0 | 141.4 | 166.4 | 187.0 |
| Kansas City, MO-KS | 3,202 | 2,913 | 2,919 | 2,696 | 2,642 | 159.4 | 143.7 | 143.2 | 131.2 | 128.6 |
| Las Vegas-Henderson-Paradise, NV | 1,604 | 1,740 | 1,968 | 2,256 | 2,653 | 82.2 | 88.3 | 98.4 | 111.2 | 130.8 |
| Los Angeles-Long Beach-Anaheim, CA | 11,156 | 11,105 | 13,102 | 14,449 | 17,130 | 87.0 | 85.8 | 100.4 | 110.0 | 130.5 |
| Louisville/Jefferson County, KY-IN | 2,243 | 2,400 | 2,040 | 2,063 | 1,962 | 181.5 | 192.7 | 163.0 | 163.4 | 155.4 |
| Memphis, TN-MS-AR | 4,094 | 3,852 | 4,498 | 3,086 | 2,625 | 309.0 | 288.7 | 335.2 | 230.0 | 195.6 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 5,506 | 5,352 | 5,291 | 5,801 | 6,128 | 98.9 | 94.4 | 91.8 | 99.5 | 105.1 |
| Milwaukee-Waukesha-West Allis, WI | 3,425 | 3,349 | 3,277 | 3,179 | 2,584 | 220.1 | 214.4 | 209.1 | 202.5 | 164.6 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 1,670 | 1,889 | 2,534 | 3,188 | 3,341 | 49.9 | 55.8 | 74.0 | 92.2 | 96.6 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 1,362 | 1,681 | 1,900 | 1,806 | 1,922 | 81.5 | 99.0 | 110.0 | 102.7 | 109.3 |
| New Orleans-Metairie, LA | 2,022 | 2,099 | 2,198 | 2,448 | 2,667 | 169.9 | 173.1 | 179.1 | 197.3 | 214.9 |
| New York-Newark-Jersey City, NY-NJ-PA | 17,724 | 21,153 | 21,310 | 19,319 | 20,054 | 90.6 | 107.4 | 107.5 | 96.8 | 100.5 |
| Oklahoma City, OK | 1,700 | 1,845 | 1,947 | 2,352 | 2,366 | 135.7 | 144.4 | 150.2 | 178.2 | 179.3 |
| Orlando-Kissimmee-Sanford, FL | 2,495 | 2,277 | 2,328 | 2,514 | 2,571 | 116.9 | 104.9 | 104.7 | 110.9 | 113.4 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 9,694 | 10,123 | 11,026 | 10,557 | 9,618 | 162.5 | 168.9 | 183.2 | 174.9 | 159.4 |
| Phoenix-Mesa-Scottsdale, AZ | 2,335 | 3,340 | 4,526 | 4,918 | 5,944 | 55.7 | 78.3 | 104.5 | 111.8 | 135.1 |
| Pittsburgh, PA | 2,069 | 2,473 | 3,048 | 2,827 | 2,602 | 87.8 | 104.8 | 129.1 | 119.7 | 110.2 |
| Portland-Vancouver-Hillsboro, OR-WA | 926 | 1,318 | 1,183 | 1,199 | 1,499 | 41.6 | 58.3 | 51.7 | 51.8 | 64.8 |
| Providence-Warwick, RI-MA | 382 | 475 | 643 | 593 | 913 | 23.9 | 29.7 | 40.2 | 37.0 | 56.9 |
| Raleigh, NC | 1,388 | 1,606 | 1,532 | 1,384 | 1,408 | 122.8 | 138.0 | 128.9 | 114.0 | 115.9 |
| Richmond, VA | 1,701 | 1,419 | 1,671 | 1,658 | 2,173 | 140.8 | 116.4 | 135.6 | 133.1 | 174.4 |
| Riverside-San Bernardino-Ontario, CA | 1,924 | 2,330 | 3,031 | 3,273 | 4,292 | 45.5 | 54.1 | 69.7 | 74.7 | 98.0 |
| Sacramento--Roseville--Arden-Arcade, CA | 1,676 | 1,913 | 2,324 | 2,597 | 2,616 | 78.0 | 87.9 | 105.8 | 117.2 | 118.1 |
| Salt Lake City, UT | 202 | 197 | 342 | 690 | 1,026 | 18.6 | 17.8 | 30.4 | 60.5 | 90.0 |
| San Antonio-New Braunfels, TX | 3,729 | 3,731 | 3,672 | 3,352 | 3,155 | 174.0 | 170.0 | 164.4 | 147.2 | 138.5 |
| San Diego-Carlsbad, CA | 2,021 | 2,173 | 2,620 | 2,825 | 3,420 | 65.3 | 69.2 | 82.5 | 88.0 | 106.5 |
| San Francisco-Oakland-Hayward, CA | 4,867 | 5,009 | 5,263 | 5,681 | 7,110 | 112.3 | 114.1 | 118.1 | 125.8 | 157.4 |
| San Jose-Sunnyvale-Santa Clara, CA | 586 | 680 | 1,020 | 1,145 | 1,552 | 31.9 | 36.5 | 53.8 | 59.6 | 80.8 |
| Seattle-Tacoma-Bellevue, WA | 2,189 | 1,971 | 2,323 | 2,990 | 3,931 | 63.6 | 56.3 | 65.4 | 82.8 | 108.9 |
| St. Louis, MO-IL | 4,136 | 5,014 | 4,810 | 4,492 | 4,346 | 148.4 | 179.6 | 172.0 | 160.4 | 155.2 |
| Tampa-St. Petersburg-Clearwater, FL | 3,516 | 3,655 | 3,422 | 3,660 | 3,455 | 126.3 | 129.4 | 120.4 | 127.5 | 120.4 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 3,431 | 2,813 | 2,630 | 2,581 | 3,206 | 204.6 | 166.9 | 154.7 | 151.2 | 187.8 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 5,250 | 5,503 | 5,369 | 5,616 | 2,974 | 93.1 | 95.6 | 91.6 | 94.4 | 50.0 |
| SELECTED MSAs TOTAL | 190,442 | 197,279 | 205,487 | 202,170 | 212,240 | 113.7 | 116.4 | 120.0 | 117.0 | 122.8 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 18. Gonorrhea Among Women — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|---------------|---------------|---------------|---------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 3,964 | 4,141 | 3,907 | 2,458 | 3,030 | 146.0 | 150.2 | 139.4 | 86.5 | 106.7 |
| Austin-Round Rock, TX | 910 | 935 | 993 | 1,078 | 1,213 | 106.3 | 105.1 | 108.5 | 114.8 | 129.1 |
| Baltimore-Columbia-Towson, MD | 2,397 | 1,941 | 1,527 | 1,542 | 1,608 | 170.5 | 137.2 | 107.1 | 107.5 | 112.2 |
| Birmingham-Hoover, AL | 1,323 | 1,417 | 1,280 | 1,099 | 970 | 226.6 | 241.6 | 217.3 | 186.0 | 164.2 |
| Boston-Cambridge-Newton, MA-NH | 708 | 730 | 738 | 828 | 844 | 30.1 | 30.8 | 30.9 | 34.3 | 35.0 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 669 | 828 | 1,173 | 594 | 664 | 113.9 | 141.3 | 200.4 | 101.6 | 113.5 |
| Charlotte-Concord-Gastonia, NC-SC | 1,754 | 2,117 | 1,778 | 1,700 | 1,962 | 154.2 | 182.6 | 150.7 | 141.7 | 163.5 |
| Chicago-Naperville-Elgin, IL-IN-WI | 6,741 | 7,015 | 7,464 | 6,374 | 5,662 | 139.3 | 144.4 | 153.4 | 130.9 | 116.2 |
| Cincinnati, OH-KY-IN | 2,331 | 2,264 | 2,051 | 1,932 | 1,913 | 215.7 | 208.8 | 188.7 | 177.1 | 175.4 |
| Cleveland-Elyria, OH | 2,082 | 2,371 | 2,426 | 2,328 | 2,021 | 193.0 | 220.9 | 226.7 | 217.6 | 188.9 |
| Columbus, OH | 1,919 | 1,561 | 1,514 | 1,500 | 1,473 | 198.3 | 159.5 | 153.2 | 150.0 | 147.3 |
| Dallas-Fort Worth-Arlington, TX | 4,791 | 4,653 | 4,157 | 3,921 | 4,153 | 147.1 | 139.6 | 122.5 | 113.6 | 120.3 |
| Denver-Aurora-Lakewood, CO | 1,261 | 885 | 965 | 724 | 780 | 98.6 | 67.8 | 72.7 | 53.5 | 57.6 |
| Detroit-Warren-Dearborn, MI | 5,217 | 5,114 | 4,406 | 3,614 | 2,698 | 235.6 | 231.6 | 199.3 | 163.5 | 122.0 |
| Hartford-West Hartford-East Hartford, CT | 633 | 596 | 422 | 543 | 425 | 101.7 | 95.8 | 67.7 | 87.2 | 68.2 |
| Houston-The Woodlands-Sugar Land, TX | 4,170 | 3,803 | 4,039 | 4,033 | 4,151 | 140.1 | 124.9 | 130.2 | 127.2 | 131.0 |
| Indianapolis-Carmel-Anderson, IN | 1,638 | 1,674 | 1,957 | 1,761 | 1,828 | 169.7 | 171.5 | 198.5 | 176.4 | 183.1 |
| Jacksonville, FL | 1,152 | 1,121 | 983 | 1,121 | 1,288 | 167.0 | 160.6 | 139.1 | 156.7 | 180.1 |
| Kansas City, MO-KS | 1,804 | 1,592 | 1,585 | 1,424 | 1,361 | 175.8 | 153.9 | 152.4 | 136.0 | 130.0 |
| Las Vegas-Henderson-Paradise, NV | 779 | 742 | 847 | 1,015 | 1,039 | 80.4 | 75.8 | 85.1 | 100.5 | 102.8 |
| Los Angeles-Long Beach-Anaheim, CA | 3,947 | 3,944 | 4,359 | 4,578 | 5,029 | 60.7 | 60.2 | 65.9 | 68.9 | 75.6 |
| Louisville/Jefferson County, KY-IN | 1,246 | 1,375 | 1,096 | 1,079 | 992 | 196.9 | 215.6 | 171.2 | 167.0 | 153.6 |
| Memphis, TN-MS-AR | 2,288 | 2,192 | 2,418 | 1,550 | 1,371 | 332.2 | 315.9 | 346.6 | 222.0 | 196.4 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 2,480 | 2,361 | 2,198 | 2,225 | 2,123 | 86.4 | 80.9 | 74.1 | 74.2 | 70.8 |
| Milwaukee-Waukesha-West Allis, WI | 2,070 | 1,980 | 1,814 | 1,655 | 1,298 | 259.0 | 247.0 | 225.5 | 205.5 | 161.2 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 953 | 1,035 | 1,322 | 1,641 | 1,388 | 56.2 | 60.4 | 76.4 | 93.8 | 79.4 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 642 | 776 | 858 | 838 | 790 | 75.2 | 89.3 | 97.1 | 93.1 | 87.8 |
| New Orleans-Metairie, LA | 1,027 | 1,131 | 1,186 | 1,317 | 1,339 | 168.2 | 181.6 | 187.9 | 206.1 | 209.6 |
| New York-Newark-Jersey City, NY-NJ-PA | 8,248 | 9,826 | 9,157 | 7,615 | 6,544 | 81.4 | 96.5 | 89.3 | 73.9 | 63.5 |
| Oklahoma City, OK | 962 | 1,034 | 1,081 | 1,305 | 1,310 | 151.3 | 159.7 | 164.6 | 195.1 | 195.9 |
| Orlando-Kissimmee-Sanford, FL | 1,171 | 1,090 | 1,087 | 1,114 | 1,109 | 107.5 | 98.4 | 95.8 | 96.3 | 95.8 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 5,125 | 5,361 | 5,581 | 5,052 | 4,461 | 166.0 | 173.0 | 179.3 | 162.0 | 143.0 |
| Phoenix-Mesa-Scottsdale, AZ | 1,071 | 1,568 | 2,118 | 2,318 | 2,658 | 50.8 | 73.2 | 97.3 | 104.8 | 120.2 |
| Pittsburgh, PA | 1,274 | 1,501 | 1,857 | 1,715 | 1,415 | 104.6 | 123.2 | 152.6 | 141.1 | 116.4 |
| Portland-Vancouver-Hillsboro, OR-WA | 371 | 482 | 393 | 325 | 382 | 32.9 | 42.1 | 33.9 | 27.8 | 32.6 |
| Providence-Warwick, RI-MA | 159 | 232 | 294 | 261 | 325 | 19.2 | 28.1 | 35.6 | 31.6 | 39.3 |
| Raleigh, NC | 738 | 868 | 807 | 677 | 638 | 127.6 | 145.7 | 132.7 | 108.9 | 102.7 |
| Richmond, VA | 967 | 797 | 908 | 957 | 1,194 | 154.9 | 126.6 | 142.6 | 148.7 | 185.6 |
| Riverside-San Bernardino-Ontario, CA | 976 | 1,196 | 1,562 | 1,576 | 1,966 | 46.0 | 55.3 | 71.5 | 71.7 | 89.4 |
| Sacramento--Roseville--Arden-Arcade, CA | 907 | 990 | 1,212 | 1,323 | 1,246 | 82.8 | 89.3 | 108.2 | 117.0 | 110.2 |
| Salt Lake City, UT | 40 | 41 | 88 | 263 | 376 | 7.4 | 7.4 | 15.8 | 46.4 | 66.3 |
| San Antonio-New Braunfels, TX | 1,886 | 1,835 | 1,865 | 1,624 | 1,445 | 173.0 | 164.4 | 164.5 | 140.7 | 125.2 |
| San Diego-Carlsbad, CA | 535 | 609 | 847 | 827 | 1,038 | 34.7 | 39.0 | 53.6 | 51.8 | 65.0 |
| San Francisco-Oakland-Hayward, CA | 1,710 | 1,531 | 1,493 | 1,491 | 1,836 | 77.8 | 68.9 | 66.2 | 65.2 | 80.3 |
| San Jose-Sunnyvale-Santa Clara, CA | 249 | 243 | 372 | 446 | 557 | 27.2 | 26.2 | 39.5 | 46.7 | 58.4 |
| Seattle-Tacoma-Bellevue, WA | 686 | 649 | 732 | 988 | 1,412 | 39.7 | 37.0 | 41.1 | 54.7 | 78.1 |
| St. Louis, MO-IL | 2,187 | 2,699 | 2,467 | 2,313 | 2,087 | 152.1 | 187.4 | 171.1 | 160.2 | 144.5 |
| Tampa-St. Petersburg-Clearwater, FL | 1,834 | 1,887 | 1,701 | 1,774 | 1,619 | 127.7 | 129.7 | 116.1 | 119.8 | 109.3 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 1,856 | 1,563 | 1,402 | 1,341 | 1,711 | 217.2 | 182.0 | 162.3 | 154.7 | 197.3 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 2,685 | 2,709 | 2,355 | 2,278 | 1,163 | 92.8 | 91.8 | 78.4 | 74.8 | 38.2 |
| SELECTED MSAs TOTAL | 96,533 | 99,005 | 98,842 | 92,055 | 89,905 | 112.9 | 114.5 | 113.1 | 104.4 | 102.0 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 19. Gonorrhea Among Men — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|---------------|----------------|----------------|----------------|------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 4,310 | 4,343 | 4,329 | 2,952 | 4,177 | 167.5 | 165.7 | 163.1 | 110.1 | 155.7 |
| Austin-Round Rock, TX | 1,022 | 1,073 | 1,196 | 1,295 | 1,635 | 118.8 | 120.1 | 130.1 | 137.2 | 173.3 |
| Baltimore-Columbia-Towson, MD | 1,968 | 1,690 | 1,447 | 1,690 | 1,840 | 150.8 | 128.5 | 109.0 | 126.4 | 137.6 |
| Birmingham-Hoover, AL | 1,024 | 1,094 | 1,057 | 1,029 | 979 | 188.2 | 200.5 | 193.0 | 187.3 | 178.2 |
| Boston-Cambridge-Newton, MA-NH | 1,173 | 940 | 1,257 | 1,541 | 1,870 | 53.2 | 42.3 | 55.9 | 67.8 | 82.3 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 558 | 715 | 999 | 638 | 678 | 101.8 | 130.5 | 182.1 | 116.2 | 123.4 |
| Charlotte-Concord-Gastonia, NC-SC | 1,299 | 1,704 | 1,384 | 1,356 | 1,683 | 120.3 | 155.1 | 123.9 | 119.4 | 148.3 |
| Chicago-Naperville-Elgin, IL-IN-WI | 5,610 | 6,150 | 6,819 | 6,407 | 6,947 | 121.4 | 132.3 | 146.4 | 137.3 | 148.9 |
| Cincinnati, OH-KY-IN | 1,041 | 1,250 | 1,176 | 1,297 | 1,431 | 100.7 | 120.4 | 112.9 | 123.9 | 136.7 |
| Cleveland-Elyria, OH | 1,517 | 1,559 | 1,777 | 1,827 | 1,781 | 151.9 | 156.7 | 178.9 | 183.6 | 179.0 |
| Columbus, OH | 1,432 | 1,477 | 1,345 | 1,720 | 1,787 | 153.3 | 156.2 | 140.8 | 177.9 | 184.8 |
| Dallas-Fort Worth-Arlington, TX | 3,977 | 4,089 | 3,682 | 4,426 | 5,033 | 125.5 | 125.9 | 111.4 | 131.8 | 149.9 |
| Denver-Aurora-Lakewood, CO | 1,083 | 777 | 1,090 | 1,104 | 1,236 | 85.6 | 60.0 | 82.8 | 82.1 | 92.0 |
| Detroit-Warren-Dearborn, MI | 3,924 | 3,794 | 3,642 | 2,942 | 2,606 | 188.5 | 182.6 | 175.0 | 141.2 | 125.0 |
| Hartford-West Hartford-East Hartford, CT | 493 | 440 | 322 | 522 | 466 | 83.5 | 74.5 | 54.5 | 88.1 | 78.7 |
| Houston-The Woodlands-Sugar Land, TX | 3,462 | 3,055 | 3,543 | 3,749 | 4,146 | 117.6 | 101.3 | 115.2 | 119.3 | 131.9 |
| Indianapolis-Carmel-Anderson, IN | 1,499 | 1,447 | 1,772 | 1,854 | 1,927 | 162.5 | 155.0 | 187.9 | 194.0 | 201.7 |
| Jacksonville, FL | 973 | 919 | 965 | 1,198 | 1,316 | 148.4 | 138.8 | 143.8 | 176.3 | 193.7 |
| Kansas City, MO-KS | 1,398 | 1,321 | 1,334 | 1,272 | 1,281 | 142.2 | 133.1 | 133.6 | 126.2 | 127.1 |
| Las Vegas-Henderson-Paradise, NV | 825 | 998 | 1,119 | 1,239 | 1,612 | 84.0 | 100.7 | 111.3 | 121.8 | 158.4 |
| Los Angeles-Long Beach-Anaheim, CA | 7,156 | 7,124 | 8,712 | 9,849 | 12,071 | 113.1 | 111.5 | 135.2 | 151.9 | 186.2 |
| Louisville/Jefferson County, KY-IN | 995 | 1,020 | 940 | 969 | 961 | 165.0 | 167.9 | 153.8 | 157.2 | 155.9 |
| Memphis, TN-MS-AR | 1,805 | 1,660 | 2,080 | 1,536 | 1,254 | 283.7 | 259.2 | 323.0 | 238.6 | 194.8 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 3,024 | 2,987 | 3,093 | 3,564 | 3,999 | 112.3 | 108.5 | 110.6 | 125.9 | 141.3 |
| Milwaukee-Waukesha-West Allis, WI | 1,354 | 1,368 | 1,463 | 1,521 | 1,281 | 178.9 | 179.9 | 191.8 | 199.0 | 167.6 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 717 | 854 | 1,209 | 1,546 | 1,942 | 43.4 | 51.0 | 71.5 | 90.4 | 113.5 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 719 | 905 | 1,034 | 968 | 1,130 | 88.0 | 109.1 | 122.6 | 112.8 | 131.7 |
| New Orleans-Metairie, LA | 937 | 962 | 1,012 | 1,131 | 1,328 | 161.8 | 163.0 | 169.8 | 187.9 | 220.6 |
| New York-Newark-Jersey City, NY-NJ-PA | 9,451 | 11,291 | 12,124 | 11,639 | 13,448 | 100.2 | 118.7 | 126.5 | 120.6 | 139.4 |
| Oklahoma City, OK | 736 | 775 | 866 | 1,047 | 1,056 | 119.2 | 122.9 | 135.3 | 160.8 | 162.2 |
| Orlando-Kissimmee-Sanford, FL | 1,320 | 1,186 | 1,241 | 1,399 | 1,461 | 126.4 | 111.5 | 114.0 | 126.0 | 131.6 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 4,565 | 4,756 | 5,439 | 5,501 | 5,152 | 158.6 | 164.4 | 187.1 | 188.7 | 176.7 |
| Phoenix-Mesa-Scottsdale, AZ | 1,264 | 1,770 | 2,407 | 2,600 | 3,286 | 60.6 | 83.4 | 111.8 | 118.9 | 150.2 |
| Pittsburgh, PA | 795 | 971 | 1,191 | 1,110 | 1,187 | 69.8 | 85.1 | 104.1 | 96.9 | 103.6 |
| Portland-Vancouver-Hillsboro, OR-WA | 555 | 836 | 790 | 874 | 1,116 | 50.5 | 74.8 | 69.8 | 76.4 | 97.6 |
| Providence-Warwick, RI-MA | 223 | 243 | 349 | 331 | 587 | 28.8 | 31.4 | 45.0 | 42.6 | 75.5 |
| Raleigh, NC | 648 | 735 | 724 | 707 | 770 | 117.4 | 129.4 | 124.8 | 119.2 | 129.9 |
| Richmond, VA | 732 | 617 | 761 | 701 | 978 | 125.4 | 104.7 | 127.8 | 116.4 | 162.4 |
| Riverside-San Bernardino-Ontario, CA | 944 | 1,126 | 1,467 | 1,695 | 2,321 | 44.9 | 52.5 | 67.7 | 77.7 | 106.4 |
| Sacramento--Roseville--Arden-Arcade, CA | 756 | 917 | 1,104 | 1,271 | 1,362 | 71.8 | 85.9 | 102.6 | 117.1 | 125.5 |
| Salt Lake City, UT | 162 | 156 | 254 | 427 | 650 | 29.6 | 28.0 | 44.9 | 74.5 | 113.4 |
| San Antonio-New Braunfels, TX | 1,843 | 1,896 | 1,807 | 1,728 | 1,710 | 175.1 | 175.8 | 164.3 | 153.9 | 152.3 |
| San Diego-Carlsbad, CA | 1,482 | 1,552 | 1,766 | 1,995 | 2,354 | 95.4 | 98.4 | 110.6 | 123.6 | 145.8 |
| San Francisco-Oakland-Hayward, CA | 3,127 | 3,454 | 3,746 | 4,167 | 5,261 | 146.3 | 159.4 | 170.4 | 186.9 | 235.9 |
| San Jose-Sunnyvale-Santa Clara, CA | 333 | 430 | 626 | 699 | 995 | 36.1 | 45.9 | 65.8 | 72.4 | 103.1 |
| Seattle-Tacoma-Bellevue, WA | 1,501 | 1,322 | 1,591 | 2,002 | 2,519 | 87.7 | 75.7 | 89.9 | 111.1 | 139.7 |
| St. Louis, MO-IL | 1,949 | 2,315 | 2,340 | 2,178 | 2,256 | 144.4 | 171.2 | 172.8 | 160.5 | 166.3 |
| Tampa-St. Petersburg-Clearwater, FL | 1,678 | 1,761 | 1,721 | 1,871 | 1,823 | 124.5 | 128.6 | 124.9 | 134.6 | 131.2 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 1,572 | 1,248 | 1,226 | 1,239 | 1,489 | 191.2 | 151.0 | 146.7 | 147.5 | 177.2 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 2,558 | 2,791 | 3,001 | 3,330 | 1,811 | 93.2 | 99.4 | 105.0 | 114.6 | 62.3 |
| SELECTED MSAs TOTAL | 93,489 | 97,863 | 106,339 | 109,653 | 121,989 | 114.1 | 118.0 | 126.8 | 129.5 | 144.1 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 20. Gonorrhea — Reported Cases and Rates of Reported Cases in Counties and Independent Cities* Ranked by Number of Reported Cases, United States, 2014

| Rank [†] | County/Independent City | Cases | Rate per 100,000 Population | Cumulative Percentage |
|-------------------|----------------------------|--------|-----------------------------|-----------------------|
| 1 | Los Angeles County, CA | 15,316 | 152.9 | 4 |
| 2 | Cook County, IL | 10,387 | 198.2 | 7 |
| 3 | Harris County, TX | 7,126 | 164.3 | 9 |
| 4 | Philadelphia County, PA | 5,961 | 383.8 | 11 |
| 5 | Maricopa County, AZ | 5,642 | 140.7 | 12 |
| 6 | Dallas County, TX | 5,034 | 203.0 | 14 |
| 7 | New York County, NY | 4,550 | 279.8 | 15 |
| 8 | Wayne County, MI | 4,140 | 233.2 | 16 |
| 9 | Kings County, NY | 4,091 | 157.8 | 17 |
| 10 | San Diego County, CA | 3,420 | 106.5 | 18 |
| 11 | Marion County, IN | 3,374 | 363.5 | 19 |
| 12 | San Francisco County, CA | 3,328 | 397.4 | 20 |
| 13 | Cuyahoga County, OH | 3,213 | 254.4 | 21 |
| 14 | Bronx County, NY | 3,093 | 218.0 | 22 |
| 15 | Bexar County, TX | 2,919 | 160.6 | 23 |
| 16 | Franklin County, OH | 2,897 | 239.0 | 24 |
| 17 | Tarrant County, TX | 2,673 | 139.8 | 24 |
| 18 | Clark County, NV | 2,653 | 130.8 | 25 |
| 19 | San Bernardino County, CA | 2,607 | 124.8 | 26 |
| 20 | Broward County, FL | 2,585 | 140.6 | 27 |
| 21 | Fulton County, GA | 2,560 | 260.1 | 27 |
| 22 | Milwaukee County, WI | 2,477 | 259.1 | 28 |
| 23 | Miami-Dade County, FL | 2,427 | 92.7 | 29 |
| 24 | Hamilton County, OH | 2,309 | 287.0 | 29 |
| 25 | Alameda County, CA | 2,306 | 146.1 | 30 |
| 26 | Mecklenburg County, NC | 2,284 | 230.5 | 31 |
| 27 | King County, WA | 2,233 | 109.2 | 31 |
| 28 | Duval County, FL | 2,229 | 251.6 | 32 |
| 29 | Sacramento County, CA | 2,227 | 152.3 | 33 |
| 30 | Travis County, TX | 2,206 | 196.8 | 33 |
| 31 | Baltimore (City), MD | 2,194 | 352.7 | 34 |
| 32 | Queens County, NY | 2,169 | 94.5 | 35 |
| 33 | Shelby County, TN | 2,155 | 229.4 | 35 |
| 34 | Allegheny County, PA | 2,084 | 169.2 | 36 |
| 35 | Hennepin County, MN | 1,997 | 166.6 | 36 |
| 36 | Orange County, FL | 1,893 | 154.5 | 37 |
| 37 | Oklahoma County, OK | 1,853 | 245.4 | 37 |
| 38 | Hillsborough County, FL | 1,844 | 142.8 | 38 |
| 39 | Orange County, CA | 1,814 | 58.2 | 38 |
| 40 | Jackson County, MO | 1,757 | 258.4 | 39 |
| 41 | St. Louis County, MO | 1,729 | 172.7 | 39 |
| 42 | Riverside County, CA | 1,685 | 73.5 | 40 |
| 43 | Tulsa County, OK | 1,665 | 267.5 | 40 |
| 44 | Jefferson County, KY | 1,665 | 220.0 | 41 |
| 45 | Jefferson County, AL | 1,660 | 251.7 | 41 |
| 46 | Orleans Parish, LA | 1,607 | 424.3 | 42 |
| 47 | St. Louis (City), MO | 1,548 | 486.2 | 42 |
| 48 | Kern County, CA | 1,548 | 179.1 | 43 |
| 49 | Santa Clara County, CA | 1,530 | 82.2 | 43 |
| 50 | Fresno County, CA | 1,519 | 159.0 | 44 |
| 51 | Essex County, NJ | 1,513 | 191.6 | 44 |
| 52 | DeKalb County, GA | 1,402 | 196.5 | 44 |
| 53 | Pinellas County, FL | 1,329 | 143.0 | 45 |
| 54 | Pierce County, WA | 1,288 | 157.1 | 45 |
| 55 | Davidson County, TN | 1,284 | 195.0 | 45 |
| 56 | Prince George's County, MD | 1,276 | 143.4 | 46 |
| 57 | Guilford County, NC | 1,259 | 248.5 | 46 |
| 58 | Wake County, NC | 1,215 | 124.7 | 47 |
| 59 | Pulaski County, AR | 1,192 | 304.6 | 47 |
| 60 | Monroe County, NY | 1,158 | 154.5 | 47 |
| 61 | Erie County, NY | 1,155 | 125.6 | 48 |
| 62 | Palm Beach County, FL | 1,116 | 81.3 | 48 |
| 63 | Suffolk County, MA | 1,090 | 144.3 | 48 |
| 64 | Cumberland County, NC | 1,083 | 332.3 | 49 |
| 65 | Denver County, CO | 1,080 | 166.3 | 49 |
| 66 | Bell County, TX | 1,079 | 330.1 | 49 |
| 67 | Pima County, AZ | 1,057 | 106.1 | 49 |
| 68 | Douglas County, NE | 1,052 | 195.8 | 50 |
| 69 | Sedgwick County, KS | 1,037 | 205.2 | 50 |
| 70 | Contra Costa County, CA | 1,028 | 93.9 | 50 |

* Accounting for 50% of reported gonorrhea cases.

† Counties and independent cities were ranked in descending order by number of cases reported then by rate in 2014.

Table 21. Gonorrhea — Reported Cases and Rates of Reported Cases by Age Group and Sex, United States, 2010–2014

| Age Group | Cases | | | | Rates* | | |
|--------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|
| | Total | Male | Female | Unknown Sex | Total | Male | Female |
| 0–4 | 247 | 70 | 167 | 10 | 1.2 | 0.7 | 1.7 |
| 5–9 | 64 | 10 | 53 | 1 | 0.3 | 0.1 | 0.5 |
| 10–14 | 3,016 | 486 | 2,498 | 32 | 14.6 | 4.6 | 24.7 |
| 15–19 | 88,250 | 28,002 | 59,867 | 381 | 400.4 | 247.7 | 557.6 |
| 20–24 | 105,619 | 46,708 | 58,574 | 337 | 489.3 | 424.1 | 554.1 |
| 25–29 | 50,890 | 26,818 | 23,907 | 165 | 241.2 | 252.2 | 228.4 |
| 30–34 | 25,401 | 14,809 | 10,510 | 82 | 127.2 | 148.1 | 105.5 |
| 35–39 | 13,769 | 8,812 | 4,907 | 50 | 68.2 | 87.8 | 48.4 |
| 40–44 | 9,262 | 6,745 | 2,495 | 22 | 44.3 | 64.9 | 23.8 |
| 45–54 | 9,555 | 7,490 | 2,043 | 22 | 21.2 | 33.8 | 8.9 |
| 55–64 | 2,194 | 1,852 | 338 | 4 | 6.0 | 10.5 | 1.8 |
| 65+ | 520 | 411 | 105 | 4 | 1.3 | 2.4 | 0.5 |
| Unknown Age | 554 | 257 | 229 | 68 | | | |
| TOTAL | 309,341 | 142,470 | 165,693 | 1,178 | 100.2 | 93.9 | 105.6 |
| 0–4 | 182 | 43 | 136 | 3 | 0.9 | 0.4 | 1.4 |
| 5–9 | 82 | 15 | 66 | 1 | 0.4 | 0.1 | 0.7 |
| 10–14 | 3,223 | 548 | 2,648 | 27 | 15.6 | 5.2 | 26.2 |
| 15–19 | 88,139 | 28,102 | 59,747 | 290 | 407.2 | 252.7 | 567.7 |
| 20–24 | 111,730 | 49,633 | 61,756 | 341 | 504.3 | 438.7 | 569.6 |
| 25–29 | 53,245 | 28,288 | 24,821 | 136 | 250.2 | 262.9 | 236.0 |
| 30–34 | 27,157 | 16,044 | 11,044 | 69 | 132.4 | 156.0 | 108.0 |
| 35–39 | 14,109 | 8,972 | 5,096 | 41 | 72.0 | 91.9 | 51.8 |
| 40–44 | 9,686 | 6,955 | 2,708 | 23 | 46.1 | 66.5 | 25.6 |
| 45–54 | 10,473 | 8,222 | 2,222 | 29 | 23.4 | 37.3 | 9.8 |
| 55–64 | 2,747 | 2,270 | 471 | 6 | 7.2 | 12.4 | 2.4 |
| 65+ | 587 | 485 | 99 | 3 | 1.4 | 2.7 | 0.4 |
| Unknown Age | 489 | 258 | 191 | 40 | | | |
| TOTAL | 321,849 | 149,835 | 171,005 | 1,009 | 103.3 | 97.7 | 108.0 |
| 0–4 | 198 | 72 | 122 | 4 | 1.0 | 0.7 | 1.2 |
| 5–9 | 68 | 16 | 52 | 0 | 0.3 | 0.2 | 0.5 |
| 10–14 | 3,136 | 573 | 2,559 | 4 | 15.2 | 5.4 | 25.3 |
| 15–19 | 81,548 | 26,578 | 54,852 | 118 | 381.8 | 242.4 | 527.5 |
| 20–24 | 115,224 | 52,351 | 62,711 | 162 | 510.2 | 453.3 | 568.4 |
| 25–29 | 58,441 | 31,631 | 26,722 | 88 | 273.1 | 291.7 | 253.2 |
| 30–34 | 31,420 | 18,936 | 12,436 | 48 | 150.3 | 180.4 | 119.4 |
| 35–39 | 16,193 | 10,493 | 5,670 | 30 | 83.1 | 108.0 | 58.0 |
| 40–44 | 10,965 | 7,858 | 3,089 | 18 | 52.1 | 75.1 | 29.2 |
| 45–54 | 12,383 | 9,773 | 2,594 | 16 | 28.0 | 44.8 | 11.5 |
| 55–64 | 3,230 | 2,642 | 586 | 2 | 8.4 | 14.2 | 2.9 |
| 65+ | 644 | 537 | 105 | 2 | 1.5 | 2.9 | 0.4 |
| Unknown Age | 1,376 | 775 | 568 | 33 | | | |
| TOTAL | 334,826 | 162,235 | 172,066 | 525 | 106.7 | 105.0 | 107.9 |
| 0–4 | 172 | 60 | 111 | 1 | 0.9 | 0.6 | 1.1 |
| 5–9 | 75 | 11 | 64 | 0 | 0.4 | 0.1 | 0.6 |
| 10–14 | 2,637 | 508 | 2,122 | 7 | 12.8 | 4.8 | 21.0 |
| 15–19 | 72,092 | 24,212 | 47,749 | 131 | 340.7 | 223.2 | 463.0 |
| 20–24 | 113,035 | 53,055 | 59,760 | 220 | 495.9 | 454.3 | 537.6 |
| 25–29 | 62,102 | 34,718 | 27,266 | 118 | 287.8 | 316.8 | 256.7 |
| 30–34 | 34,065 | 20,855 | 13,143 | 67 | 160.2 | 195.2 | 124.2 |
| 35–39 | 18,034 | 11,850 | 6,145 | 39 | 92.0 | 121.1 | 62.6 |
| 40–44 | 11,817 | 8,590 | 3,192 | 35 | 56.7 | 82.9 | 30.4 |
| 45–54 | 13,823 | 11,087 | 2,714 | 22 | 31.6 | 51.4 | 12.2 |
| 55–64 | 3,802 | 3,176 | 621 | 5 | 9.7 | 16.8 | 3.1 |
| 65+ | 825 | 696 | 128 | 1 | 1.8 | 3.6 | 0.5 |
| Unknown Age | 525 | 312 | 193 | 20 | | | |
| TOTAL | 333,004 | 169,130 | 163,208 | 666 | 105.3 | 108.7 | 101.7 |
| 0–4 | 154 | 47 | 105 | 2 | 0.8 | 0.5 | 1.1 |
| 5–9 | 53 | 7 | 46 | 0 | 0.3 | 0.1 | 0.5 |
| 10–14 | 2,450 | 440 | 2,005 | 5 | 11.9 | 4.2 | 19.9 |
| 15–19 | 68,468 | 23,981 | 44,399 | 88 | 323.6 | 221.1 | 430.5 |
| 20–24 | 116,200 | 56,714 | 59,329 | 157 | 509.8 | 485.6 | 533.7 |
| 25–29 | 69,587 | 40,602 | 28,899 | 86 | 322.5 | 370.5 | 272.1 |
| 30–34 | 38,393 | 24,349 | 13,988 | 56 | 180.6 | 228.0 | 132.2 |
| 35–39 | 20,803 | 14,129 | 6,654 | 20 | 106.1 | 144.4 | 67.8 |
| 40–44 | 12,687 | 9,349 | 3,320 | 18 | 60.9 | 90.2 | 31.7 |
| 45–54 | 15,322 | 12,388 | 2,917 | 17 | 35.0 | 57.4 | 13.1 |
| 55–64 | 4,549 | 3,859 | 680 | 10 | 11.6 | 20.4 | 3.3 |
| 65+ | 911 | 790 | 121 | 0 | 2.0 | 4.0 | 0.5 |
| Unknown Age | 485 | 288 | 145 | 52 | | | |
| TOTAL | 350,062 | 186,943 | 162,608 | 511 | 110.7 | 120.1 | 101.3 |

* No population data are available for unknown sex and age; therefore, rates are not calculated.

NOTE: This table should be used only for age comparisons.

Cases in the 0–4 age group may include cases due to perinatal transmission.

Table 22A. Gonorrhea — Reported Cases by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|--------------|--------------|--------------------|--------------|------------|----------------------|---------------|---------------|
| | Total [†] | Male | Female | Total [†] | Male | Female | Total [†] | Male | Female |
| 0–4 | 2 | 1 | 1 | 0 | 0 | 0 | 56 | 19 | 37 |
| 5–9 | 1 | 0 | 1 | 0 | 0 | 0 | 23 | 3 | 20 |
| 10–14 | 25 | 3 | 22 | 6 | 1 | 5 | 1,264 | 217 | 1,046 |
| 15–19 | 576 | 162 | 414 | 263 | 122 | 141 | 35,115 | 12,437 | 22,661 |
| 20–24 | 1,112 | 377 | 735 | 768 | 461 | 305 | 55,003 | 26,542 | 28,429 |
| 25–29 | 753 | 312 | 441 | 717 | 530 | 186 | 28,434 | 16,784 | 11,627 |
| 30–34 | 472 | 176 | 296 | 473 | 343 | 130 | 13,505 | 8,869 | 4,633 |
| 35–39 | 214 | 99 | 115 | 298 | 236 | 62 | 6,872 | 4,824 | 2,045 |
| 40–44 | 121 | 56 | 64 | 176 | 140 | 36 | 3,758 | 2,899 | 859 |
| 45–54 | 121 | 73 | 48 | 186 | 153 | 33 | 4,386 | 3,735 | 649 |
| 55–64 | 14 | 9 | 5 | 50 | 39 | 11 | 1,349 | 1,196 | 150 |
| 65+ | 9 | 8 | 1 | 12 | 9 | 3 | 209 | 191 | 18 |
| Unknown Age | 4 | 3 | 1 | 2 | 2 | 0 | 66 | 43 | 21 |
| TOTAL | 3,424 | 1,279 | 2,144 | 2,951 | 2,036 | 912 | 150,040 | 77,759 | 72,195 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|------------|------------|----------------------|---------------|---------------|--------------------|--------------|--------------|
| | Total [†] | Male | Female | Total [†] | Male | Female | Total [†] | Male | Female |
| 0–4 | 0 | 0 | 0 | 19 | 6 | 13 | 1 | 0 | 1 |
| 5–9 | 0 | 0 | 0 | 8 | 3 | 5 | 1 | 0 | 1 |
| 10–14 | 2 | 0 | 2 | 258 | 29 | 229 | 21 | 1 | 20 |
| 15–19 | 82 | 22 | 60 | 9,327 | 2,650 | 6,670 | 552 | 143 | 409 |
| 20–24 | 172 | 84 | 87 | 20,934 | 9,647 | 11,274 | 842 | 391 | 449 |
| 25–29 | 109 | 62 | 47 | 16,029 | 8,707 | 7,317 | 590 | 396 | 193 |
| 30–34 | 68 | 39 | 29 | 9,942 | 5,982 | 3,957 | 339 | 254 | 85 |
| 35–39 | 37 | 17 | 20 | 5,487 | 3,569 | 1,914 | 152 | 123 | 29 |
| 40–44 | 20 | 12 | 7 | 3,673 | 2,638 | 1,032 | 113 | 95 | 18 |
| 45–54 | 21 | 15 | 6 | 5,025 | 4,096 | 928 | 118 | 110 | 8 |
| 55–64 | 6 | 4 | 2 | 1,478 | 1,261 | 216 | 17 | 16 | 1 |
| 65+ | 2 | 2 | 0 | 303 | 267 | 36 | 3 | 2 | 1 |
| Unknown Age | 1 | 1 | 0 | 51 | 26 | 25 | 1 | 0 | 1 |
| TOTAL | 520 | 258 | 260 | 72,534 | 38,881 | 33,616 | 2,750 | 1,531 | 1,216 |

| Age Group | Hispanics | | | Other/Unknown | | |
|--------------|--------------------|---------------|---------------|--------------------|---------------|---------------|
| | Total [†] | Male | Female | Total [†] | Male | Female |
| 0–4 | 14 | 5 | 9 | 43 | 11 | 30 |
| 5–9 | 5 | 0 | 5 | 13 | 1 | 12 |
| 10–14 | 216 | 50 | 166 | 514 | 116 | 394 |
| 15–19 | 6,542 | 2,517 | 4,018 | 12,892 | 4,928 | 7,911 |
| 20–24 | 12,232 | 6,644 | 5,575 | 20,160 | 10,369 | 9,705 |
| 25–29 | 8,343 | 5,259 | 3,072 | 11,950 | 7,074 | 4,836 |
| 30–34 | 4,960 | 3,341 | 1,610 | 7,264 | 4,468 | 2,759 |
| 35–39 | 2,726 | 1,931 | 793 | 4,200 | 2,809 | 1,381 |
| 40–44 | 1,519 | 1,142 | 375 | 2,827 | 2,025 | 792 |
| 45–54 | 1,437 | 1,165 | 271 | 3,393 | 2,553 | 827 |
| 55–64 | 290 | 251 | 39 | 1,156 | 925 | 226 |
| 65+ | 61 | 45 | 16 | 269 | 225 | 44 |
| Unknown Age | 50 | 29 | 21 | 269 | 158 | 63 |
| TOTAL | 38,395 | 22,379 | 15,970 | 64,950 | 35,662 | 28,980 |

* Includes 48 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

[†] Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 21 for age-specific cases and rates and Tables 14–16 for total and sex-specific cases and rates.

Cases in the 0–4 age group may include cases due to perinatal transmission.

Table 22B. Gonorrhea — Rates of Reported Cases per 100,000 Population by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|--------------|--------------|-------------|-------------|-------------|----------------------|--------------|--------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 2.1 | 1.4 | 2.8 |
| 5–9 | 0.6 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.9 | 0.2 | 1.5 |
| 10–14 | 14.9 | 3.5 | 26.8 | 0.7 | 0.2 | 1.1 | 45.5 | 15.4 | 76.5 |
| 15–19 | 329.7 | 181.4 | 484.6 | 28.4 | 25.9 | 31.0 | 1,172.6 | 816.0 | 1,541.0 |
| 20–24 | 607.9 | 403.2 | 821.9 | 67.0 | 79.4 | 53.9 | 1,736.0 | 1,670.4 | 1,799.9 |
| 25–29 | 480.7 | 397.4 | 564.5 | 56.3 | 86.0 | 28.3 | 1,065.0 | 1,291.6 | 848.5 |
| 30–34 | 325.7 | 244.1 | 406.6 | 36.3 | 56.4 | 18.7 | 524.6 | 723.0 | 343.8 |
| 35–39 | 160.7 | 150.8 | 170.3 | 23.0 | 38.9 | 9.0 | 291.4 | 434.1 | 164.0 |
| 40–44 | 87.0 | 81.8 | 90.6 | 14.0 | 23.8 | 5.4 | 150.0 | 245.3 | 64.9 |
| 45–54 | 40.4 | 50.8 | 30.9 | 8.8 | 15.5 | 2.9 | 84.8 | 153.7 | 23.7 |
| 55–64 | 5.9 | 8.1 | 4.0 | 3.0 | 5.1 | 1.2 | 33.6 | 65.4 | 6.9 |
| 65+ | 4.7 | 9.3 | 0.9 | 0.8 | 1.3 | 0.3 | 6.0 | 13.8 | 0.9 |
| Unknown Age | | | | | | | | | |
| TOTAL | 159.4 | 120.9 | 196.5 | 19.3 | 28.0 | 11.3 | 405.4 | 440.1 | 373.3 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|--------------|--------------|----------------------|-------------|-------------|-------------|-------------|-------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.3 | 0.1 | 0.0 | 0.2 |
| 5–9 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 |
| 10–14 | 5.3 | 0.0 | 11.0 | 2.4 | 0.5 | 4.4 | 3.1 | 0.3 | 5.9 |
| 15–19 | 209.0 | 109.8 | 312.4 | 82.4 | 45.5 | 121.3 | 92.7 | 47.7 | 138.3 |
| 20–24 | 362.2 | 343.8 | 377.3 | 171.8 | 155.4 | 188.7 | 171.7 | 163.5 | 178.6 |
| 25–29 | 235.0 | 261.5 | 207.3 | 135.5 | 145.5 | 125.3 | 154.6 | 219.2 | 96.0 |
| 30–34 | 159.2 | 178.6 | 138.8 | 86.1 | 102.6 | 69.2 | 101.1 | 161.1 | 47.8 |
| 35–39 | 100.3 | 90.3 | 110.6 | 50.8 | 65.7 | 35.7 | 55.3 | 95.1 | 19.9 |
| 40–44 | 57.8 | 68.9 | 40.7 | 29.5 | 42.1 | 16.6 | 44.1 | 78.4 | 13.4 |
| 45–54 | 32.2 | 46.2 | 18.3 | 17.5 | 28.8 | 6.4 | 25.9 | 50.8 | 3.4 |
| 55–64 | 13.0 | 17.8 | 8.5 | 5.4 | 9.5 | 1.6 | 5.1 | 10.2 | 0.6 |
| 65+ | 5.6 | 12.1 | 0.0 | 0.9 | 1.8 | 0.2 | 1.1 | 1.6 | 0.6 |
| Unknown Age | | | | | | | | | |
| TOTAL | 102.1 | 100.5 | 102.9 | 38.3 | 41.7 | 34.9 | 47.8 | 54.3 | 41.4 |

| Age Group | Hispanics | | |
|--------------|-------------|-------------|-------------|
| | Total† | Male | Female |
| 0–4 | 0.3 | 0.2 | 0.4 |
| 5–9 | 0.1 | 0.0 | 0.2 |
| 10–14 | 4.7 | 2.1 | 7.3 |
| 15–19 | 144.7 | 108.0 | 183.5 |
| 20–24 | 270.4 | 278.1 | 261.1 |
| 25–29 | 193.4 | 229.0 | 152.3 |
| 30–34 | 116.7 | 150.1 | 79.5 |
| 35–39 | 69.2 | 95.4 | 41.4 |
| 40–44 | 41.9 | 61.6 | 21.1 |
| 45–54 | 24.6 | 39.7 | 9.4 |
| 55–64 | 8.1 | 14.5 | 2.1 |
| 65+ | 2.0 | 3.4 | 0.9 |
| Unknown Age | | | |
| TOTAL | 73.3 | 84.1 | 61.9 |

* Includes 48 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

† Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 21 for age-specific cases and rates and Tables 14–16 for total and sex-specific cases and rates.

Cases in the 0–4 age group may include cases due to perinatal transmission.

No population data exist for unknown sex, unknown age, or unknown race; therefore rates are not calculated.

Table 23. Gonorrhea Among Women 15–25 Years of Age — Reported Cases and Rates of Reported Cases by Age, United States, 2010–2014

| | Age | Cases | Rate per 100,000 Population |
|------|-----|--------|-----------------------------|
| 2010 | 15 | 4,502 | 217.9 |
| | 16 | 8,286 | 394.6 |
| | 17 | 12,397 | 581.4 |
| | 18 | 16,743 | 762.6 |
| | 19 | 17,939 | 799.7 |
| | 20 | 16,320 | 738.2 |
| | 21 | 14,015 | 657.6 |
| | 22 | 11,087 | 531.3 |
| | 23 | 9,329 | 453.4 |
| | 24 | 7,823 | 375.1 |
| 2011 | 25 | 6,546 | 311.6 |
| | 15 | 4,466 | 220.3 |
| | 16 | 8,128 | 393.4 |
| | 17 | 12,308 | 584.7 |
| | 18 | 16,973 | 796.3 |
| | 19 | 17,872 | 814.3 |
| | 20 | 16,865 | 750.6 |
| | 21 | 14,559 | 647.9 |
| | 22 | 12,202 | 565.4 |
| | 23 | 9,861 | 467.2 |
| 2012 | 24 | 8,269 | 397.9 |
| | 25 | 6,804 | 324.9 |
| | 15 | 4,241 | 209.4 |
| | 16 | 7,316 | 359.4 |
| | 17 | 11,006 | 530.2 |
| | 18 | 15,580 | 736.2 |
| | 19 | 16,709 | 779.1 |
| | 20 | 15,849 | 717.5 |
| | 21 | 15,029 | 664.7 |
| | 22 | 12,800 | 565.9 |
| 2013 | 23 | 10,449 | 480.6 |
| | 24 | 8,584 | 403.4 |
| | 25 | 7,343 | 350.3 |
| | 15 | 3,776 | 186.4 |
| | 16 | 6,503 | 320.0 |
| | 17 | 9,374 | 458.8 |
| | 18 | 13,393 | 642.4 |
| | 19 | 14,703 | 691.2 |
| | 20 | 14,420 | 668.8 |
| | 21 | 13,394 | 603.1 |
| 2014 | 22 | 12,272 | 539.6 |
| | 23 | 10,819 | 475.3 |
| | 24 | 8,855 | 404.5 |
| | 25 | 7,446 | 347.4 |
| | 15 | 3,487 | 172.2 |
| | 16 | 6,188 | 304.5 |
| | 17 | 8,830 | 432.2 |
| | 18 | 12,196 | 585.0 |
| | 19 | 13,698 | 643.9 |
| | 20 | 13,801 | 640.1 |
| | 21 | 13,324 | 600.0 |
| | 22 | 12,031 | 529.0 |
| | 23 | 10,746 | 472.1 |
| | 24 | 9,427 | 430.7 |
| | 25 | 7,966 | 371.7 |

NOTE: This table should be used only for age comparisons. Cases reported with unknown sex are not included in this table.

Table 24. All Stages of Syphilis* — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|------------------------------|-------------|-------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 781 | 758 | 705 | 679 | 475 | 16.3 | 15.8 | 14.6 | 14.0 | 9.8 |
| Alaska | 15 | 11 | 34 | 35 | 45 | 2.1 | 1.5 | 4.6 | 4.8 | 6.1 |
| Arizona | 905 | 907 | 787 | 962 | 1,459 | 14.2 | 14.0 | 12.0 | 14.5 | 22.0 |
| Arkansas | 534 | 464 | 468 | 527 | 389 | 18.3 | 15.8 | 15.9 | 17.8 | 13.1 |
| California | 6,115 | 6,782 | 8,016 | 9,972 | 11,440 | 16.4 | 18.0 | 21.1 | 26.0 | 29.8 |
| Colorado | 342 | 367 | 503 | 475 | 355 | 6.8 | 7.2 | 9.7 | 9.0 | 6.7 |
| Connecticut | 234 | 189 | 121 | 133 | 169 | 6.5 | 5.3 | 3.4 | 3.7 | 4.7 |
| Delaware | 44 | 124 | 106 | 146 | 110 | 4.9 | 13.7 | 11.6 | 15.8 | 11.9 |
| District of Columbia | 495 | 552 | 589 | 609 | 281 | 82.3 | 89.3 | 93.1 | 94.2 | 43.5 |
| Florida | 4,070 | 4,143 | 4,483 | 5,022 | 6,102 | 21.6 | 21.7 | 23.2 | 25.7 | 31.2 |
| Georgia | 2,347 | 1,895 | 2,434 | 2,990 | 3,384 | 24.2 | 19.3 | 24.5 | 29.9 | 33.9 |
| Hawaii | 73 | 32 | 43 | 87 | 106 | 5.4 | 2.3 | 3.1 | 6.2 | 7.5 |
| Idaho | 20 | 42 | 54 | 42 | 46 | 1.3 | 2.6 | 3.4 | 2.6 | 2.9 |
| Illinois | 2,236 | 2,426 | 2,424 | 2,661 | 2,796 | 17.4 | 18.9 | 18.8 | 20.7 | 21.7 |
| Indiana | 412 | 468 | 531 | 543 | 475 | 6.4 | 7.2 | 8.1 | 8.3 | 7.2 |
| Iowa | 68 | 70 | 143 | 226 | 239 | 2.2 | 2.3 | 4.7 | 7.3 | 7.7 |
| Kansas | 110 | 76 | 129 | 196 | 200 | 3.9 | 2.6 | 4.5 | 6.8 | 6.9 |
| Kentucky | 311 | 335 | 390 | 395 | 447 | 7.2 | 7.7 | 8.9 | 9.0 | 10.2 |
| Louisiana | 2,484 | 2,043 | 1,780 | 2,006 | 2,173 | 54.8 | 44.7 | 38.7 | 43.4 | 47.0 |
| Maine | 41 | 24 | 22 | 21 | 23 | 3.1 | 1.8 | 1.7 | 1.6 | 1.7 |
| Maryland | 1,015 | 1,278 | 1,243 | 1,361 | 1,475 | 17.6 | 21.9 | 21.1 | 23.0 | 24.9 |
| Massachusetts | 639 | 770 | 806 | 990 | 813 | 9.8 | 11.7 | 12.1 | 14.8 | 12.1 |
| Michigan | 683 | 764 | 786 | 1,068 | 1,095 | 6.9 | 7.7 | 8.0 | 10.8 | 11.1 |
| Minnesota | 350 | 367 | 335 | 541 | 631 | 6.6 | 6.9 | 6.2 | 10.0 | 11.6 |
| Mississippi | 823 | 748 | 456 | 293 | 642 | 27.7 | 25.1 | 15.3 | 9.8 | 21.5 |
| Missouri | 512 | 414 | 426 | 609 | 771 | 8.5 | 6.9 | 7.1 | 10.1 | 12.8 |
| Montana | 5 | 9 | 3 | 8 | 9 | 0.5 | 0.9 | 0.3 | 0.8 | 0.9 |
| Nebraska | 33 | 36 | 35 | 95 | 96 | 1.8 | 2.0 | 1.9 | 5.1 | 5.1 |
| Nevada | 412 | 430 | 445 | 523 | 894 | 15.3 | 15.8 | 16.1 | 18.7 | 32.0 |
| New Hampshire | 43 | 33 | 65 | 79 | 79 | 3.3 | 2.5 | 4.9 | 6.0 | 6.0 |
| New Jersey | 947 | 971 | 883 | 968 | 1,172 | 10.8 | 11.0 | 10.0 | 10.9 | 13.2 |
| New Mexico | 151 | 212 | 234 | 247 | 283 | 7.3 | 10.2 | 11.2 | 11.8 | 13.6 |
| New York | 4,860 | 4,786 | 5,312 | 6,173 | 7,129 | 25.1 | 24.6 | 27.1 | 31.4 | 36.3 |
| North Carolina | 1,233 | 1,255 | 1,037 | 1,153 | 1,998 | 12.9 | 13.0 | 10.6 | 11.7 | 20.3 |
| North Dakota | 6 | 5 | 14 | 25 | 51 | 0.9 | 0.7 | 2.0 | 3.5 | 7.1 |
| Ohio | 1,076 | 954 | 1,141 | 1,096 | 1,229 | 9.3 | 8.3 | 9.9 | 9.5 | 10.6 |
| Oklahoma | 272 | 270 | 256 | 383 | 414 | 7.3 | 7.1 | 6.7 | 9.9 | 10.8 |
| Oregon | 173 | 252 | 424 | 527 | 582 | 4.5 | 6.5 | 10.9 | 13.4 | 14.8 |
| Pennsylvania | 1,007 | 1,125 | 1,349 | 1,485 | 1,524 | 7.9 | 8.8 | 10.6 | 11.6 | 11.9 |
| Rhode Island | 79 | 84 | 93 | 94 | 160 | 7.5 | 8.0 | 8.9 | 8.9 | 15.2 |
| South Carolina | 580 | 639 | 624 | 753 | 750 | 12.5 | 13.7 | 13.2 | 15.8 | 15.7 |
| South Dakota | 12 | 14 | 29 | 61 | 95 | 1.5 | 1.7 | 3.5 | 7.2 | 11.2 |
| Tennessee | 1,193 | 1,025 | 1,068 | 980 | 977 | 18.8 | 16.0 | 16.5 | 15.1 | 15.0 |
| Texas | 6,413 | 6,161 | 7,057 | 7,044 | 7,804 | 25.5 | 24.0 | 27.1 | 26.6 | 29.5 |
| Utah | 133 | 64 | 101 | 172 | 149 | 4.8 | 2.3 | 3.5 | 5.9 | 5.1 |
| Vermont | 4 | 10 | 12 | 10 | 12 | 0.6 | 1.6 | 1.9 | 1.6 | 1.9 |
| Virginia | 800 | 726 | 906 | 1,001 | 702 | 10.0 | 9.0 | 11.1 | 12.1 | 8.5 |
| Washington | 535 | 712 | 709 | 711 | 854 | 8.0 | 10.4 | 10.3 | 10.2 | 12.3 |
| West Virginia | 26 | 9 | 24 | 39 | 55 | 1.4 | 0.5 | 1.3 | 2.1 | 3.0 |
| Wisconsin | 186 | 203 | 268 | 257 | 285 | 3.3 | 3.6 | 4.7 | 4.5 | 5.0 |
| Wyoming | 6 | 6 | 12 | 9 | 6 | 1.1 | 1.1 | 2.1 | 1.5 | 1.0 |
| U.S. TOTAL | 45,844 | 46,040 | 49,915 | 56,482 | 63,450 | 14.8 | 14.8 | 15.9 | 17.9 | 20.1 |
| Northeast | 7,854 | 7,992 | 8,663 | 9,953 | 11,081 | 14.2 | 14.4 | 15.5 | 17.8 | 19.8 |
| Midwest | 5,684 | 5,797 | 6,261 | 7,378 | 7,963 | 8.5 | 8.6 | 9.3 | 10.9 | 11.8 |
| South | 23,421 | 22,425 | 23,626 | 25,381 | 28,178 | 20.4 | 19.3 | 20.1 | 21.4 | 23.8 |
| West | 8,885 | 9,826 | 11,365 | 13,770 | 16,228 | 12.3 | 13.5 | 15.4 | 18.5 | 21.9 |
| Guam | 11 | 26 | 27 | 24 | 13 | 6.9 | 16.3 | 16.9 | 15.0 | 8.1 |
| Puerto Rico | 723 | 671 | 704 | 811 | 960 | 19.4 | 18.1 | 19.2 | 22.4 | 26.6 |
| Virgin Islands | 4 | 7 | 2 | 9 | 6 | 3.8 | 6.6 | 1.9 | 8.6 | 5.7 |
| OUTLYING AREAS | 738 | 704 | 733 | 844 | 979 | 18.5 | 17.7 | 18.6 | 21.8 | 25.2 |
| TOTAL | 46,582 | 46,744 | 50,648 | 57,326 | 64,429 | 14.9 | 14.8 | 15.9 | 17.9 | 20.1 |

* See Section A1.9 in the Appendix for definition.

Table 25. All Stages of Syphilis* — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)[†] in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|---------------|---------------|---------------|---------------|------------------------------|-------------|-------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 1,916 | 1,549 | 1,822 | 2,257 | 2,668 | 36.2 | 28.8 | 33.4 | 40.9 | 48.3 |
| Austin-Round Rock, TX | 362 | 425 | 478 | 500 | 680 | 21.1 | 23.8 | 26.1 | 26.6 | 36.1 |
| Baltimore-Columbia-Towson, MD | 531 | 710 | 726 | 732 | 815 | 19.6 | 26.0 | 26.4 | 26.4 | 29.4 |
| Birmingham-Hoover, AL | 234 | 276 | 226 | 236 | 157 | 20.7 | 24.4 | 19.9 | 20.7 | 13.8 |
| Boston-Cambridge-Newton, MA-NH | 544 | 607 | 570 | 758 | 596 | 11.9 | 13.2 | 12.3 | 16.2 | 12.7 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 43 | 48 | 70 | 115 | 130 | 3.8 | 4.2 | 6.2 | 10.1 | 11.5 |
| Charlotte-Concord-Gastonia, NC-SC | 314 | 372 | 310 | 360 | 530 | 14.2 | 16.5 | 13.5 | 15.4 | 22.7 |
| Chicago-Naperville-Elgin, IL-IN-WI | 2,085 | 2,266 | 2,269 | 2,499 | 2,559 | 22.0 | 23.8 | 23.8 | 26.2 | 26.8 |
| Cincinnati, OH-KY-IN | 483 | 436 | 529 | 437 | 381 | 22.8 | 20.5 | 24.9 | 20.4 | 17.8 |
| Cleveland-Elyria, OH | 182 | 151 | 140 | 111 | 199 | 8.8 | 7.3 | 6.8 | 5.4 | 9.6 |
| Columbus, OH | 248 | 237 | 316 | 342 | 441 | 13.0 | 12.3 | 16.3 | 17.4 | 22.4 |
| Dallas-Fort Worth-Arlington, TX | 1,958 | 1,816 | 2,141 | 2,093 | 2,231 | 30.5 | 27.6 | 32.0 | 30.7 | 32.8 |
| Denver-Aurora-Lakewood, CO | 293 | 319 | 434 | 382 | 298 | 11.5 | 12.3 | 16.4 | 14.2 | 11.0 |
| Detroit-Warren-Dearborn, MI | 459 | 522 | 607 | 830 | 791 | 10.7 | 12.2 | 14.1 | 19.3 | 18.4 |
| Hartford-West Hartford-East Hartford, CT | 85 | 55 | 21 | 43 | 52 | 7.0 | 4.5 | 1.7 | 3.5 | 4.3 |
| Houston-The Woodlands-Sugar Land, TX | 1,891 | 1,870 | 2,246 | 1,891 | 2,316 | 31.9 | 30.9 | 36.4 | 30.0 | 36.7 |
| Indianapolis-Carmel-Anderson, IN | 236 | 270 | 336 | 340 | 285 | 12.5 | 14.1 | 17.4 | 17.4 | 14.6 |
| Jacksonville, FL | 228 | 188 | 177 | 189 | 269 | 16.9 | 13.8 | 12.8 | 13.6 | 19.3 |
| Kansas City, MO-KS | 145 | 141 | 164 | 320 | 406 | 7.2 | 7.0 | 8.0 | 15.6 | 19.8 |
| Las Vegas-Henderson-Paradise, NV | 389 | 402 | 403 | 438 | 830 | 19.9 | 20.4 | 20.1 | 21.6 | 40.9 |
| Los Angeles-Long Beach-Anaheim, CA | 3,003 | 3,247 | 3,540 | 4,537 | 4,737 | 23.4 | 25.1 | 27.1 | 34.6 | 36.1 |
| Louisville/Jefferson County, KY-IN | 196 | 186 | 201 | 210 | 239 | 15.9 | 14.9 | 16.1 | 16.6 | 18.9 |
| Memphis, TN-MS-AR | 760 | 587 | 591 | 578 | 475 | 57.4 | 44.0 | 44.0 | 43.1 | 35.4 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 2,259 | 2,315 | 2,591 | 2,740 | 3,313 | 40.6 | 40.8 | 45.0 | 47.0 | 56.8 |
| Milwaukee-Waukesha-West Allis, WI | 121 | 117 | 159 | 153 | 184 | 7.8 | 7.5 | 10.1 | 9.7 | 11.7 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 309 | 326 | 313 | 487 | 585 | 9.2 | 9.6 | 9.1 | 14.1 | 16.9 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 267 | 229 | 271 | 239 | 305 | 16.0 | 13.5 | 15.7 | 13.6 | 17.4 |
| New Orleans-Metairie, LA | 688 | 668 | 547 | 634 | 723 | 57.8 | 55.1 | 44.6 | 51.1 | 58.3 |
| New York-Newark-Jersey City, NY-NJ-PA | 5,379 | 5,303 | 5,670 | 6,506 | 7,476 | 27.5 | 26.9 | 28.6 | 32.6 | 37.5 |
| Oklahoma City, OK | 148 | 114 | 148 | 213 | 231 | 11.8 | 8.9 | 11.4 | 16.1 | 17.5 |
| Orlando-Kissimmee-Sanford, FL | 391 | 485 | 499 | 631 | 782 | 18.3 | 22.3 | 22.4 | 27.8 | 34.5 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 930 | 1,029 | 1,119 | 1,333 | 1,273 | 15.6 | 17.2 | 18.6 | 22.1 | 21.1 |
| Phoenix-Mesa-Scottsdale, AZ | 645 | 676 | 624 | 713 | 1,065 | 15.4 | 15.9 | 14.4 | 16.2 | 24.2 |
| Pittsburgh, PA | 72 | 92 | 128 | 95 | 154 | 3.1 | 3.9 | 5.4 | 4.0 | 6.5 |
| Portland-Vancouver-Hillsboro, OR-WA | 153 | 220 | 410 | 475 | 470 | 6.9 | 9.7 | 17.9 | 20.5 | 20.3 |
| Providence-Warwick, RI-MA | 95 | 111 | 125 | 138 | 204 | 5.9 | 6.9 | 7.8 | 8.6 | 12.7 |
| Raleigh, NC | 154 | 151 | 150 | 179 | 315 | 13.6 | 13.0 | 12.6 | 14.7 | 25.9 |
| Richmond, VA | 210 | 154 | 194 | 204 | 145 | 17.4 | 12.6 | 15.7 | 16.4 | 11.6 |
| Riverside-San Bernardino-Ontario, CA | 428 | 527 | 775 | 803 | 950 | 10.1 | 12.2 | 17.8 | 18.3 | 21.7 |
| Sacramento--Roseville--Arden-Arcade, CA | 183 | 258 | 249 | 289 | 371 | 8.5 | 11.9 | 11.3 | 13.0 | 16.7 |
| Salt Lake City, UT | 94 | 48 | 74 | 136 | 109 | 8.6 | 4.3 | 6.6 | 11.9 | 9.6 |
| San Antonio-New Braunfels, TX | 730 | 736 | 983 | 1,167 | 1,017 | 34.1 | 33.5 | 44.0 | 51.2 | 44.7 |
| San Diego-Carlsbad, CA | 607 | 609 | 717 | 791 | 986 | 19.6 | 19.4 | 22.6 | 24.6 | 30.7 |
| San Francisco-Oakland-Hayward, CA | 1,150 | 1,271 | 1,595 | 1,892 | 2,106 | 26.5 | 28.9 | 35.8 | 41.9 | 46.6 |
| San Jose-Sunnyvale-Santa Clara, CA | 183 | 159 | 233 | 276 | 304 | 10.0 | 8.5 | 12.3 | 14.4 | 15.8 |
| Seattle-Tacoma-Bellevue, WA | 439 | 589 | 559 | 539 | 590 | 12.8 | 16.8 | 15.7 | 14.9 | 16.3 |
| St. Louis, MO-IL | 403 | 271 | 280 | 338 | 412 | 14.5 | 9.7 | 10.0 | 12.1 | 14.7 |
| Tampa-St. Petersburg-Clearwater, FL | 503 | 516 | 582 | 632 | 806 | 18.1 | 18.3 | 20.5 | 22.0 | 28.1 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 237 | 212 | 296 | 302 | 220 | 14.1 | 12.6 | 17.4 | 17.7 | 12.9 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 1,191 | 1,316 | 1,374 | 1,543 | 811 | 21.1 | 22.9 | 23.4 | 25.9 | 13.6 |
| SELECTED MSAs TOTAL | 34,554 | 35,182 | 38,982 | 43,646 | 47,992 | 20.6 | 20.8 | 22.8 | 25.3 | 27.8 |

* See Section A1.9 in the Appendix for definition.

[†] MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

Table 26. Primary and Secondary Syphilis — Reported Cases and Rates of Reported Cases by State, Ranked by Rates, United States, 2014

| Rank* | State | Cases | Rate per 100,000 Population |
|-------|--------------------|---------------|-----------------------------|
| 1 | Nevada | 357 | 12.8 |
| 2 | Louisiana | 575 | 12.4 |
| 3 | Georgia | 1,234 | 12.3 |
| 4 | California | 3,835 | 10.0 |
| 5 | Florida | 1,740 | 8.9 |
| 6 | New York | 1,727 | 8.8 |
| 7 | Arizona | 577 | 8.7 |
| 8 | Maryland | 449 | 7.6 |
| 9 | North Carolina | 733 | 7.4 |
| 10 | Oregon | 272 | 6.9 |
| 11 | Rhode Island | 71 | 6.8 |
| 12 | Illinois | 863 | 6.7 |
| | U.S. TOTAL† | 19,999 | 6.3 |
| 13 | Mississippi | 189 | 6.3 |
| 14 | South Dakota | 53 | 6.3 |
| 15 | Texas | 1,636 | 6.2 |
| 16 | New Mexico | 126 | 6.0 |
| 17 | Missouri | 352 | 5.8 |
| 18 | South Carolina | 250 | 5.2 |
| 19 | Delaware | 47 | 5.1 |
| 20 | Washington | 344 | 4.9 |
| 21 | Ohio | 568 | 4.9 |
| 22 | Hawaii | 68 | 4.8 |
| 23 | Minnesota | 257 | 4.7 |
| 24 | Massachusetts | 301 | 4.5 |
| 25 | Michigan | 421 | 4.3 |
| 26 | Pennsylvania | 532 | 4.2 |
| 27 | Arkansas | 121 | 4.1 |
| 28 | Oklahoma | 151 | 3.9 |
| 29 | Tennessee | 237 | 3.6 |
| 30 | Kentucky | 158 | 3.6 |
| 31 | Colorado | 186 | 3.5 |
| 32 | Virginia | 289 | 3.5 |
| 33 | New Jersey | 297 | 3.3 |
| 34 | Alabama | 161 | 3.3 |
| 35 | New Hampshire | 36 | 2.7 |
| 36 | Nebraska | 50 | 2.7 |
| 37 | Indiana | 168 | 2.6 |
| 38 | Connecticut | 86 | 2.4 |
| 39 | Iowa | 72 | 2.3 |
| 40 | Kansas | 60 | 2.1 |
| 41 | Alaska | 15 | 2.0 |
| 42 | North Dakota | 13 | 1.8 |
| 43 | Utah | 47 | 1.6 |
| 44 | West Virginia | 28 | 1.5 |
| 45 | Wisconsin | 86 | 1.5 |
| 46 | Maine | 16 | 1.2 |
| 47 | Vermont | 5 | 0.8 |
| 48 | Montana | 8 | 0.8 |
| 49 | Idaho | 12 | 0.7 |
| 50 | Wyoming | 4 | 0.7 |

* States were ranked by rate, then by case count, then in alphabetical order, with rates shown rounded to the nearest tenth.

† Total includes cases reported by the District of Columbia with 116 cases and a rate of 17.9, but excludes outlying areas (Guam with 7 cases and rate of 4.4, Puerto Rico with 484 cases and rate of 13.4, and Virgin Islands with 2 cases and rate of 1.9).

Table 27. Primary and Secondary Syphilis — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|------------------------------|------------|------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 260 | 228 | 216 | 183 | 161 | 5.4 | 4.7 | 4.5 | 3.8 | 3.3 |
| Alaska | 3 | 5 | 11 | 23 | 15 | 0.4 | 0.7 | 1.5 | 3.1 | 2.0 |
| Arizona | 230 | 274 | 202 | 287 | 577 | 3.6 | 4.2 | 3.1 | 4.3 | 8.7 |
| Arkansas | 205 | 182 | 173 | 177 | 121 | 7.0 | 6.2 | 5.9 | 6.0 | 4.1 |
| California | 2,065 | 2,443 | 2,953 | 3,532 | 3,835 | 5.5 | 6.5 | 7.8 | 9.2 | 10.0 |
| Colorado | 138 | 133 | 208 | 163 | 186 | 2.7 | 2.6 | 4.0 | 3.1 | 3.5 |
| Connecticut | 98 | 65 | 55 | 56 | 86 | 2.7 | 1.8 | 1.5 | 1.6 | 2.4 |
| Delaware | 9 | 27 | 38 | 52 | 47 | 1.0 | 3.0 | 4.1 | 5.6 | 5.1 |
| District of Columbia | 134 | 165 | 165 | 168 | 116 | 22.3 | 26.7 | 26.1 | 26.0 | 17.9 |
| Florida | 1,184 | 1,257 | 1,369 | 1,513 | 1,740 | 6.3 | 6.6 | 7.1 | 7.7 | 8.9 |
| Georgia | 795 | 678 | 937 | 1,017 | 1,234 | 8.2 | 6.9 | 9.4 | 10.2 | 12.3 |
| Hawaii | 35 | 14 | 23 | 46 | 68 | 2.6 | 1.0 | 1.7 | 3.3 | 4.8 |
| Idaho | 6 | 13 | 26 | 15 | 12 | 0.4 | 0.8 | 1.6 | 0.9 | 0.7 |
| Illinois | 908 | 881 | 804 | 798 | 863 | 7.1 | 6.8 | 6.2 | 6.2 | 6.7 |
| Indiana | 175 | 173 | 224 | 215 | 168 | 2.7 | 2.7 | 3.4 | 3.3 | 2.6 |
| Iowa | 19 | 20 | 70 | 106 | 72 | 0.6 | 0.7 | 2.3 | 3.4 | 2.3 |
| Kansas | 19 | 24 | 24 | 51 | 60 | 0.7 | 0.8 | 0.8 | 1.8 | 2.1 |
| Kentucky | 139 | 129 | 150 | 122 | 158 | 3.2 | 3.0 | 3.4 | 2.8 | 3.6 |
| Louisiana | 546 | 447 | 339 | 423 | 575 | 12.0 | 9.8 | 7.4 | 9.1 | 12.4 |
| Maine | 32 | 12 | 17 | 10 | 16 | 2.4 | 0.9 | 1.3 | 0.8 | 1.2 |
| Maryland | 328 | 452 | 431 | 456 | 449 | 5.7 | 7.8 | 7.3 | 7.7 | 7.6 |
| Massachusetts | 285 | 266 | 316 | 360 | 301 | 4.4 | 4.0 | 4.8 | 5.4 | 4.5 |
| Michigan | 235 | 286 | 295 | 487 | 421 | 2.4 | 2.9 | 3.0 | 4.9 | 4.3 |
| Minnesota | 149 | 139 | 118 | 193 | 257 | 2.8 | 2.6 | 2.2 | 3.6 | 4.7 |
| Mississippi | 228 | 191 | 150 | 78 | 189 | 7.7 | 6.4 | 5.0 | 2.6 | 6.3 |
| Missouri | 152 | 136 | 157 | 251 | 352 | 2.5 | 2.3 | 2.6 | 4.2 | 5.8 |
| Montana | 3 | 7 | 2 | 5 | 8 | 0.3 | 0.7 | 0.2 | 0.5 | 0.8 |
| Nebraska | 12 | 10 | 8 | 41 | 50 | 0.7 | 0.5 | 0.4 | 2.2 | 2.7 |
| Nevada | 130 | 136 | 113 | 205 | 357 | 4.8 | 5.0 | 4.1 | 7.3 | 12.8 |
| New Hampshire | 22 | 18 | 36 | 28 | 36 | 1.7 | 1.4 | 2.7 | 2.1 | 2.7 |
| New Jersey | 244 | 232 | 229 | 233 | 297 | 2.8 | 2.6 | 2.6 | 2.6 | 3.3 |
| New Mexico | 53 | 71 | 101 | 78 | 126 | 2.6 | 3.4 | 4.8 | 3.7 | 6.0 |
| New York | 1,098 | 1,083 | 1,224 | 1,459 | 1,727 | 5.7 | 5.6 | 6.3 | 7.4 | 8.8 |
| North Carolina | 396 | 431 | 347 | 404 | 733 | 4.2 | 4.5 | 3.6 | 4.1 | 7.4 |
| North Dakota | 3 | 1 | 4 | 12 | 13 | 0.4 | 0.1 | 0.6 | 1.7 | 1.8 |
| Ohio | 528 | 440 | 425 | 436 | 568 | 4.6 | 3.8 | 3.7 | 3.8 | 4.9 |
| Oklahoma | 92 | 84 | 83 | 118 | 151 | 2.5 | 2.2 | 2.2 | 3.1 | 3.9 |
| Oregon | 71 | 97 | 212 | 267 | 272 | 1.9 | 2.5 | 5.4 | 6.8 | 6.9 |
| Pennsylvania | 369 | 373 | 494 | 471 | 532 | 2.9 | 2.9 | 3.9 | 3.7 | 4.2 |
| Rhode Island | 41 | 46 | 44 | 45 | 71 | 3.9 | 4.4 | 4.2 | 4.3 | 6.8 |
| South Carolina | 155 | 221 | 225 | 271 | 250 | 3.4 | 4.7 | 4.8 | 5.7 | 5.2 |
| South Dakota | 4 | 0 | 18 | 44 | 53 | 0.5 | 0.0 | 2.2 | 5.2 | 6.3 |
| Tennessee | 277 | 278 | 266 | 214 | 237 | 4.4 | 4.3 | 4.1 | 3.3 | 3.6 |
| Texas | 1,230 | 1,169 | 1,627 | 1,475 | 1,636 | 4.9 | 4.6 | 6.2 | 5.6 | 6.2 |
| Utah | 65 | 14 | 42 | 74 | 47 | 2.4 | 0.5 | 1.5 | 2.6 | 1.6 |
| Vermont | 4 | 9 | 6 | 3 | 5 | 0.6 | 1.4 | 1.0 | 0.5 | 0.8 |
| Virginia | 279 | 213 | 285 | 315 | 289 | 3.5 | 2.6 | 3.5 | 3.8 | 3.5 |
| Washington | 266 | 328 | 302 | 284 | 344 | 4.0 | 4.8 | 4.4 | 4.1 | 4.9 |
| West Virginia | 6 | 4 | 8 | 15 | 28 | 0.3 | 0.2 | 0.4 | 0.8 | 1.5 |
| Wisconsin | 49 | 65 | 91 | 95 | 86 | 0.9 | 1.1 | 1.6 | 1.7 | 1.5 |
| Wyoming | 0 | 0 | 4 | 1 | 4 | 0.0 | 0.0 | 0.7 | 0.2 | 0.7 |
| U.S. TOTAL | 13,774 | 13,970 | 15,667 | 17,375 | 19,999 | 4.5 | 4.5 | 5.0 | 5.5 | 6.3 |
| Northeast | 2,193 | 2,104 | 2,421 | 2,665 | 3,071 | 4.0 | 3.8 | 4.3 | 4.8 | 5.5 |
| Midwest | 2,253 | 2,175 | 2,238 | 2,729 | 2,963 | 3.4 | 3.2 | 3.3 | 4.0 | 4.4 |
| South | 6,263 | 6,156 | 6,809 | 7,001 | 8,114 | 5.5 | 5.3 | 5.8 | 5.9 | 6.9 |
| West | 3,065 | 3,535 | 4,199 | 4,980 | 5,851 | 4.3 | 4.9 | 5.7 | 6.7 | 7.9 |
| Guam | 1 | 5 | 6 | 6 | 7 | 0.6 | 3.1 | 3.8 | 3.7 | 4.4 |
| Puerto Rico | 228 | 254 | 306 | 385 | 484 | 6.1 | 6.9 | 8.3 | 10.6 | 13.4 |
| Virgin Islands | 0 | 0 | 0 | 2 | 2 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 |
| OUTLYING AREAS | 229 | 259 | 312 | 393 | 493 | 5.7 | 6.5 | 7.9 | 10.1 | 12.7 |
| TOTAL | 14,003 | 14,229 | 15,979 | 17,768 | 20,492 | 4.5 | 4.5 | 5.0 | 5.6 | 6.4 |

Table 28. Primary and Secondary Syphilis Among Women — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 75 | 54 | 38 | 22 | 17 | 3.0 | 2.2 | 1.5 | 0.9 | 0.7 |
| Alaska | 0 | 1 | 1 | 2 | 1 | 0.0 | 0.3 | 0.3 | 0.6 | 0.3 |
| Arizona | 20 | 15 | 16 | 27 | 50 | 0.6 | 0.5 | 0.5 | 0.8 | 1.5 |
| Arkansas | 82 | 76 | 49 | 44 | 23 | 5.5 | 5.1 | 3.3 | 2.9 | 1.5 |
| California | 74 | 103 | 116 | 210 | 318 | 0.4 | 0.5 | 0.6 | 1.1 | 1.7 |
| Colorado | 2 | 4 | 3 | 4 | 6 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 |
| Connecticut | 5 | 5 | 9 | 8 | 7 | 0.3 | 0.3 | 0.5 | 0.4 | 0.4 |
| Delaware | 1 | 1 | 2 | 3 | 2 | 0.2 | 0.2 | 0.4 | 0.6 | 0.4 |
| District of Columbia | 2 | 7 | 6 | 19 | 5 | 0.6 | 2.1 | 1.8 | 5.6 | 1.5 |
| Florida | 147 | 134 | 134 | 137 | 137 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| Georgia | 82 | 58 | 66 | 87 | 96 | 1.7 | 1.2 | 1.3 | 1.7 | 1.9 |
| Hawaii | 7 | 0 | 2 | 0 | 2 | 1.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| Idaho | 0 | 1 | 2 | 0 | 0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 |
| Illinois | 108 | 81 | 73 | 66 | 81 | 1.7 | 1.2 | 1.1 | 1.0 | 1.2 |
| Indiana | 20 | 13 | 22 | 18 | 11 | 0.6 | 0.4 | 0.7 | 0.5 | 0.3 |
| Iowa | 3 | 5 | 7 | 10 | 6 | 0.2 | 0.3 | 0.5 | 0.6 | 0.4 |
| Kansas | 1 | 0 | 2 | 4 | 14 | 0.1 | 0.0 | 0.1 | 0.3 | 1.0 |
| Kentucky | 8 | 19 | 13 | 17 | 22 | 0.4 | 0.9 | 0.6 | 0.8 | 1.0 |
| Louisiana | 251 | 179 | 127 | 115 | 132 | 10.8 | 7.7 | 5.4 | 4.9 | 5.6 |
| Maine | 0 | 0 | 2 | 1 | 3 | 0.0 | 0.0 | 0.3 | 0.1 | 0.4 |
| Maryland | 26 | 49 | 45 | 61 | 49 | 0.9 | 1.6 | 1.5 | 2.0 | 1.6 |
| Massachusetts | 16 | 23 | 15 | 17 | 23 | 0.5 | 0.7 | 0.4 | 0.5 | 0.7 |
| Michigan | 23 | 26 | 30 | 29 | 31 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| Minnesota | 9 | 5 | 7 | 12 | 21 | 0.3 | 0.2 | 0.3 | 0.4 | 0.8 |
| Mississippi | 69 | 45 | 34 | 19 | 17 | 4.5 | 2.9 | 2.2 | 1.2 | 1.1 |
| Missouri | 3 | 6 | 12 | 19 | 34 | 0.1 | 0.2 | 0.4 | 0.6 | 1.1 |
| Montana | 0 | 1 | 0 | 1 | 2 | 0.0 | 0.2 | 0.0 | 0.2 | 0.4 |
| Nebraska | 3 | 1 | 1 | 4 | 4 | 0.3 | 0.1 | 0.1 | 0.4 | 0.4 |
| Nevada | 7 | 7 | 4 | 14 | 23 | 0.5 | 0.5 | 0.3 | 1.0 | 1.7 |
| New Hampshire | 1 | 1 | 0 | 1 | 4 | 0.1 | 0.1 | 0.0 | 0.1 | 0.6 |
| New Jersey | 16 | 13 | 19 | 13 | 16 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 |
| New Mexico | 3 | 2 | 9 | 20 | 14 | 0.3 | 0.2 | 0.9 | 1.9 | 1.3 |
| New York | 47 | 37 | 45 | 44 | 49 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 |
| North Carolina | 55 | 31 | 37 | 36 | 68 | 1.1 | 0.6 | 0.7 | 0.7 | 1.3 |
| North Dakota | 1 | 0 | 0 | 1 | 5 | 0.3 | 0.0 | 0.0 | 0.3 | 1.4 |
| Ohio | 132 | 107 | 85 | 63 | 76 | 2.2 | 1.8 | 1.4 | 1.1 | 1.3 |
| Oklahoma | 16 | 12 | 6 | 13 | 15 | 0.8 | 0.6 | 0.3 | 0.7 | 0.8 |
| Oregon | 1 | 0 | 6 | 12 | 22 | 0.1 | 0.0 | 0.3 | 0.6 | 1.1 |
| Pennsylvania | 36 | 34 | 34 | 26 | 47 | 0.6 | 0.5 | 0.5 | 0.4 | 0.7 |
| Rhode Island | 2 | 3 | 1 | 1 | 5 | 0.4 | 0.6 | 0.2 | 0.2 | 0.9 |
| South Carolina | 9 | 24 | 34 | 39 | 23 | 0.4 | 1.0 | 1.4 | 1.6 | 0.9 |
| South Dakota | 0 | 0 | 1 | 15 | 34 | 0.0 | 0.0 | 0.2 | 3.6 | 8.1 |
| Tennessee | 49 | 34 | 31 | 22 | 34 | 1.5 | 1.0 | 0.9 | 0.7 | 1.0 |
| Texas | 333 | 255 | 269 | 179 | 242 | 2.6 | 2.0 | 2.1 | 1.3 | 1.8 |
| Utah | 2 | 0 | 0 | 2 | 1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 |
| Vermont | 2 | 0 | 0 | 0 | 0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| Virginia | 20 | 18 | 21 | 17 | 17 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 |
| Washington | 5 | 6 | 9 | 13 | 18 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| West Virginia | 0 | 0 | 2 | 4 | 6 | 0.0 | 0.0 | 0.2 | 0.4 | 0.6 |
| Wisconsin | 6 | 5 | 11 | 9 | 7 | 0.2 | 0.2 | 0.4 | 0.3 | 0.2 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| U.S. TOTAL | 1,780 | 1,501 | 1,458 | 1,500 | 1,840 | 1.1 | 0.9 | 0.9 | 0.9 | 1.1 |
| Northeast | 125 | 116 | 125 | 111 | 154 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| Midwest | 309 | 249 | 251 | 250 | 324 | 0.9 | 0.7 | 0.7 | 0.7 | 0.9 |
| South | 1,225 | 996 | 914 | 834 | 905 | 2.1 | 1.7 | 1.5 | 1.4 | 1.5 |
| West | 121 | 140 | 168 | 305 | 457 | 0.3 | 0.4 | 0.5 | 0.8 | 1.2 |
| Guam | 1 | 2 | 1 | 5 | 2 | 1.3 | 2.5 | 1.3 | 6.3 | 2.5 |
| Puerto Rico | 18 | 17 | 20 | 35 | 30 | 0.9 | 0.9 | 1.0 | 1.9 | 1.6 |
| Virgin Islands | 0 | 0 | 0 | 1 | 1 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| OUTLYING AREAS | 19 | 19 | 21 | 41 | 33 | 0.9 | 0.9 | 1.0 | 2.0 | 1.6 |
| TOTAL | 1,799 | 1,520 | 1,479 | 1,541 | 1,873 | 1.1 | 0.9 | 0.9 | 0.9 | 1.2 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 29. Primary and Secondary Syphilis Among Men — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|------------------------------|-------------|-------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 185 | 174 | 178 | 161 | 144 | 8.0 | 7.5 | 7.6 | 6.9 | 6.1 |
| Alaska | 3 | 4 | 10 | 21 | 14 | 0.8 | 1.1 | 2.6 | 5.4 | 3.6 |
| Arizona | 210 | 257 | 186 | 260 | 527 | 6.6 | 8.0 | 5.7 | 7.9 | 16.0 |
| Arkansas | 123 | 106 | 124 | 133 | 98 | 8.6 | 7.3 | 8.6 | 9.1 | 6.7 |
| California | 1,990 | 2,327 | 2,823 | 3,319 | 3,515 | 10.7 | 12.4 | 14.9 | 17.4 | 18.4 |
| Colorado | 136 | 129 | 205 | 159 | 180 | 5.4 | 5.0 | 7.9 | 6.0 | 6.8 |
| Connecticut | 93 | 60 | 46 | 48 | 79 | 5.3 | 3.4 | 2.6 | 2.7 | 4.5 |
| Delaware | 8 | 26 | 36 | 49 | 45 | 1.8 | 5.9 | 8.1 | 10.9 | 10.0 |
| District of Columbia | 132 | 158 | 159 | 149 | 106 | 46.4 | 54.1 | 53.2 | 48.7 | 34.6 |
| Florida | 1,037 | 1,123 | 1,235 | 1,376 | 1,602 | 11.3 | 12.0 | 13.1 | 14.4 | 16.8 |
| Georgia | 713 | 620 | 870 | 930 | 1,138 | 15.1 | 12.9 | 17.9 | 19.1 | 23.3 |
| Hawaii | 28 | 14 | 21 | 46 | 66 | 4.1 | 2.0 | 3.0 | 6.5 | 9.3 |
| Idaho | 6 | 12 | 24 | 15 | 12 | 0.8 | 1.5 | 3.0 | 1.9 | 1.5 |
| Illinois | 800 | 800 | 731 | 731 | 782 | 12.7 | 12.7 | 11.6 | 11.6 | 12.4 |
| Indiana | 155 | 160 | 202 | 197 | 157 | 4.9 | 5.0 | 6.3 | 6.1 | 4.9 |
| Iowa | 16 | 15 | 63 | 96 | 66 | 1.1 | 1.0 | 4.1 | 6.3 | 4.3 |
| Kansas | 18 | 24 | 22 | 47 | 46 | 1.3 | 1.7 | 1.5 | 3.3 | 3.2 |
| Kentucky | 131 | 110 | 137 | 105 | 136 | 6.1 | 5.1 | 6.3 | 4.9 | 6.3 |
| Louisiana | 284 | 268 | 212 | 308 | 443 | 12.8 | 12.0 | 9.4 | 13.6 | 19.6 |
| Maine | 32 | 12 | 15 | 9 | 13 | 4.9 | 1.8 | 2.3 | 1.4 | 2.0 |
| Maryland | 302 | 403 | 386 | 395 | 400 | 10.8 | 14.3 | 13.5 | 13.7 | 13.9 |
| Massachusetts | 269 | 243 | 301 | 343 | 277 | 8.5 | 7.6 | 9.3 | 10.6 | 8.5 |
| Michigan | 212 | 260 | 265 | 458 | 390 | 4.4 | 5.4 | 5.5 | 9.4 | 8.0 |
| Minnesota | 140 | 134 | 111 | 178 | 235 | 5.3 | 5.0 | 4.2 | 6.6 | 8.7 |
| Mississippi | 159 | 146 | 116 | 59 | 172 | 11.0 | 10.1 | 8.0 | 4.1 | 11.8 |
| Missouri | 149 | 130 | 145 | 232 | 318 | 5.1 | 4.4 | 4.9 | 7.8 | 10.7 |
| Montana | 3 | 6 | 2 | 4 | 6 | 0.6 | 1.2 | 0.4 | 0.8 | 1.2 |
| Nebraska | 9 | 9 | 7 | 37 | 46 | 1.0 | 1.0 | 0.8 | 4.0 | 4.9 |
| Nevada | 123 | 129 | 109 | 191 | 334 | 9.0 | 9.4 | 7.8 | 13.6 | 23.8 |
| New Hampshire | 21 | 17 | 36 | 27 | 32 | 3.2 | 2.6 | 5.5 | 4.1 | 4.9 |
| New Jersey | 228 | 219 | 210 | 220 | 281 | 5.3 | 5.1 | 4.9 | 5.1 | 6.5 |
| New Mexico | 50 | 69 | 92 | 58 | 112 | 4.9 | 6.7 | 8.9 | 5.6 | 10.8 |
| New York | 1,051 | 1,045 | 1,175 | 1,408 | 1,675 | 11.2 | 11.1 | 12.4 | 14.8 | 17.6 |
| North Carolina | 341 | 400 | 310 | 368 | 665 | 7.3 | 8.5 | 6.5 | 7.7 | 13.9 |
| North Dakota | 2 | 1 | 4 | 11 | 8 | 0.6 | 0.3 | 1.1 | 3.0 | 2.2 |
| Ohio | 396 | 333 | 340 | 373 | 492 | 7.0 | 5.9 | 6.0 | 6.6 | 8.7 |
| Oklahoma | 76 | 72 | 77 | 105 | 136 | 4.1 | 3.8 | 4.1 | 5.5 | 7.1 |
| Oregon | 70 | 97 | 206 | 255 | 250 | 3.7 | 5.1 | 10.7 | 13.1 | 12.9 |
| Pennsylvania | 333 | 339 | 460 | 445 | 485 | 5.4 | 5.5 | 7.4 | 7.1 | 7.8 |
| Rhode Island | 39 | 43 | 43 | 44 | 66 | 7.7 | 8.5 | 8.5 | 8.6 | 13.0 |
| South Carolina | 146 | 197 | 191 | 232 | 227 | 6.5 | 8.7 | 8.3 | 10.0 | 9.8 |
| South Dakota | 4 | 0 | 17 | 29 | 19 | 1.0 | 0.0 | 4.1 | 6.8 | 4.5 |
| Tennessee | 228 | 244 | 235 | 192 | 203 | 7.4 | 7.8 | 7.5 | 6.1 | 6.4 |
| Texas | 896 | 914 | 1,358 | 1,296 | 1,394 | 7.2 | 7.2 | 10.5 | 9.9 | 10.6 |
| Utah | 63 | 14 | 42 | 72 | 46 | 4.5 | 1.0 | 2.9 | 4.9 | 3.2 |
| Vermont | 2 | 9 | 6 | 3 | 5 | 0.6 | 2.9 | 1.9 | 1.0 | 1.6 |
| Virginia | 259 | 195 | 264 | 298 | 272 | 6.6 | 4.9 | 6.6 | 7.3 | 6.7 |
| Washington | 261 | 322 | 293 | 271 | 326 | 7.8 | 9.4 | 8.5 | 7.8 | 9.4 |
| West Virginia | 6 | 4 | 6 | 11 | 22 | 0.7 | 0.4 | 0.7 | 1.2 | 2.4 |
| Wisconsin | 43 | 60 | 80 | 86 | 79 | 1.5 | 2.1 | 2.8 | 3.0 | 2.8 |
| Wyoming | 0 | 0 | 4 | 1 | 4 | 0.0 | 0.0 | 1.4 | 0.3 | 1.3 |
| U.S. TOTAL | 11,981 | 12,453 | 14,190 | 15,861 | 18,146 | 7.9 | 8.1 | 9.2 | 10.2 | 11.7 |
| Northeast | 2,068 | 1,987 | 2,292 | 2,547 | 2,913 | 7.7 | 7.4 | 8.4 | 9.3 | 10.7 |
| Midwest | 1,944 | 1,926 | 1,987 | 2,475 | 2,638 | 5.9 | 5.8 | 6.0 | 7.4 | 7.9 |
| South | 5,026 | 5,160 | 5,894 | 6,167 | 7,203 | 9.0 | 9.1 | 10.2 | 10.6 | 12.4 |
| West | 2,943 | 3,380 | 4,017 | 4,672 | 5,392 | 8.2 | 9.3 | 10.9 | 12.6 | 14.6 |
| Guam | 0 | 3 | 5 | 1 | 5 | 0.0 | 3.7 | 6.2 | 1.2 | 6.1 |
| Puerto Rico | 210 | 237 | 286 | 350 | 454 | 11.8 | 13.4 | 16.3 | 20.2 | 26.3 |
| Virgin Islands | 0 | 0 | 0 | 1 | 1 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| OUTLYING AREAS | 210 | 240 | 291 | 352 | 460 | 11.0 | 12.6 | 15.4 | 18.9 | 24.7 |
| TOTAL | 12,191 | 12,693 | 14,481 | 16,213 | 18,606 | 7.9 | 8.2 | 9.3 | 10.3 | 11.8 |

NOTE: Cases reported with unknown sex are not included in this table.

Table 30. Primary and Secondary Syphilis — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|---------------|---------------|---------------|---------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 651 | 581 | 745 | 789 | 996 | 12.3 | 10.8 | 13.7 | 14.3 | 18.0 |
| Austin-Round Rock, TX | 107 | 114 | 154 | 145 | 227 | 6.2 | 6.4 | 8.4 | 7.7 | 12.1 |
| Baltimore-Columbia-Towson, MD | 212 | 308 | 307 | 288 | 282 | 7.8 | 11.3 | 11.2 | 10.4 | 10.2 |
| Birmingham-Hoover, AL | 82 | 89 | 73 | 69 | 58 | 7.3 | 7.9 | 6.4 | 6.1 | 5.1 |
| Boston-Cambridge-Newton, MA-NH | 240 | 191 | 204 | 268 | 227 | 5.3 | 4.2 | 4.4 | 5.7 | 4.8 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 11 | 14 | 27 | 38 | 49 | 1.0 | 1.2 | 2.4 | 3.4 | 4.3 |
| Charlotte-Concord-Gastonia, NC-SC | 116 | 152 | 116 | 134 | 220 | 5.2 | 6.7 | 5.1 | 5.7 | 9.4 |
| Chicago-Naperville-Elgin, IL-IN-WI | 881 | 853 | 759 | 763 | 811 | 9.3 | 9.0 | 8.0 | 8.0 | 8.5 |
| Cincinnati, OH-KY-IN | 272 | 228 | 166 | 166 | 153 | 12.9 | 10.7 | 7.8 | 7.8 | 7.2 |
| Cleveland-Elyria, OH | 82 | 55 | 44 | 32 | 80 | 3.9 | 2.7 | 2.1 | 1.5 | 3.9 |
| Columbus, OH | 123 | 122 | 159 | 167 | 250 | 6.5 | 6.3 | 8.2 | 8.5 | 12.7 |
| Dallas-Fort Worth-Arlington, TX | 342 | 317 | 391 | 445 | 508 | 5.3 | 4.8 | 5.8 | 6.5 | 7.5 |
| Denver-Aurora-Lakewood, CO | 120 | 116 | 183 | 135 | 153 | 4.7 | 4.5 | 6.9 | 5.0 | 5.7 |
| Detroit-Warren-Dearborn, MI | 146 | 203 | 235 | 394 | 317 | 3.4 | 4.7 | 5.5 | 9.2 | 7.4 |
| Hartford-West Hartford-East Hartford, CT | 32 | 15 | 9 | 14 | 26 | 2.6 | 1.2 | 0.7 | 1.2 | 2.1 |
| Houston-The Woodlands-Sugar Land, TX | 330 | 322 | 537 | 363 | 414 | 5.6 | 5.3 | 8.7 | 5.7 | 6.6 |
| Indianapolis-Carmel-Anderson, IN | 109 | 91 | 150 | 146 | 109 | 5.8 | 4.8 | 7.8 | 7.5 | 5.6 |
| Jacksonville, FL | 49 | 47 | 44 | 40 | 69 | 3.6 | 3.5 | 3.2 | 2.9 | 4.9 |
| Kansas City, MO-KS | 43 | 57 | 65 | 155 | 220 | 2.1 | 2.8 | 3.2 | 7.5 | 10.7 |
| Las Vegas-Henderson-Paradise, NV | 125 | 126 | 97 | 164 | 318 | 6.4 | 6.4 | 4.8 | 8.1 | 15.7 |
| Los Angeles-Long Beach-Anaheim, CA | 766 | 876 | 1,049 | 1,299 | 1,407 | 6.0 | 6.8 | 8.0 | 9.9 | 10.7 |
| Louisville/Jefferson County, KY-IN | 104 | 92 | 81 | 71 | 83 | 8.4 | 7.4 | 6.5 | 5.6 | 6.6 |
| Memphis, TN-MS-AR | 166 | 120 | 110 | 105 | 94 | 12.5 | 9.0 | 8.2 | 7.8 | 7.0 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 652 | 630 | 705 | 762 | 821 | 11.7 | 11.1 | 12.2 | 13.1 | 14.1 |
| Milwaukee-Waukesha-West Allis, WI | 29 | 35 | 43 | 54 | 52 | 1.9 | 2.2 | 2.7 | 3.4 | 3.3 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 140 | 127 | 116 | 181 | 243 | 4.2 | 3.7 | 3.4 | 5.2 | 7.0 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 76 | 85 | 88 | 57 | 74 | 4.5 | 5.0 | 5.1 | 3.2 | 4.2 |
| New Orleans-Metairie, LA | 93 | 101 | 66 | 103 | 221 | 7.8 | 8.3 | 5.4 | 8.3 | 17.8 |
| New York-Newark-Jersey City, NY-NJ-PA | 1,228 | 1,169 | 1,315 | 1,491 | 1,721 | 6.3 | 5.9 | 6.6 | 7.5 | 8.6 |
| Oklahoma City, OK | 55 | 39 | 54 | 78 | 91 | 4.4 | 3.1 | 4.2 | 5.9 | 6.9 |
| Orlando-Kissimmee-Sanford, FL | 103 | 174 | 168 | 201 | 239 | 4.8 | 8.0 | 7.6 | 8.9 | 10.5 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 307 | 302 | 369 | 396 | 446 | 5.1 | 5.0 | 6.1 | 6.6 | 7.4 |
| Phoenix-Mesa-Scottsdale, AZ | 161 | 213 | 162 | 219 | 416 | 3.8 | 5.0 | 3.7 | 5.0 | 9.5 |
| Pittsburgh, PA | 36 | 49 | 61 | 39 | 78 | 1.5 | 2.1 | 2.6 | 1.7 | 3.3 |
| Portland-Vancouver-Hillsboro, OR-WA | 66 | 90 | 209 | 240 | 206 | 3.0 | 4.0 | 9.1 | 10.4 | 8.9 |
| Providence-Warwick, RI-MA | 47 | 55 | 58 | 65 | 93 | 2.9 | 3.4 | 3.6 | 4.1 | 5.8 |
| Raleigh, NC | 44 | 47 | 56 | 70 | 129 | 3.9 | 4.0 | 4.7 | 5.8 | 10.6 |
| Richmond, VA | 88 | 50 | 64 | 70 | 68 | 7.3 | 4.1 | 5.2 | 5.6 | 5.5 |
| Riverside-San Bernardino-Ontario, CA | 157 | 182 | 166 | 203 | 288 | 3.7 | 4.2 | 3.8 | 4.6 | 6.6 |
| Sacramento--Roseville--Arden-Arcade, CA | 57 | 131 | 151 | 147 | 162 | 2.7 | 6.0 | 6.9 | 6.6 | 7.3 |
| Salt Lake City, UT | 54 | 9 | 34 | 65 | 39 | 5.0 | 0.8 | 3.0 | 5.7 | 3.4 |
| San Antonio-New Braunfels, TX | 183 | 188 | 329 | 310 | 247 | 8.5 | 8.6 | 14.7 | 13.6 | 10.8 |
| San Diego-Carlsbad, CA | 274 | 293 | 331 | 333 | 371 | 8.9 | 9.3 | 10.4 | 10.4 | 11.6 |
| San Francisco-Oakland-Hayward, CA | 543 | 626 | 744 | 814 | 767 | 12.5 | 14.3 | 16.7 | 18.0 | 17.0 |
| San Jose-Sunnyvale-Santa Clara, CA | 91 | 68 | 105 | 146 | 120 | 5.0 | 3.6 | 5.5 | 7.6 | 6.3 |
| Seattle-Tacoma-Bellevue, WA | 236 | 276 | 248 | 211 | 235 | 6.9 | 7.9 | 7.0 | 5.8 | 6.5 |
| St. Louis, MO-IL | 118 | 92 | 95 | 108 | 153 | 4.2 | 3.3 | 3.4 | 3.9 | 5.5 |
| Tampa-St. Petersburg-Clearwater, FL | 183 | 199 | 230 | 226 | 320 | 6.6 | 7.0 | 8.1 | 7.9 | 11.1 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 92 | 64 | 106 | 102 | 85 | 5.5 | 3.8 | 6.2 | 6.0 | 5.0 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 311 | 360 | 358 | 418 | 226 | 5.5 | 6.3 | 6.1 | 7.0 | 3.8 |
| SELECTED MSAs TOTAL | 10,533 | 10,743 | 12,136 | 13,299 | 14,982 | 6.3 | 6.3 | 7.1 | 7.7 | 8.7 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

Table 31. Primary and Secondary Syphilis Among Women — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|------------|------------|------------|------------|--------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 44 | 40 | 33 | 52 | 58 | 1.6 | 1.5 | 1.2 | 1.8 | 2.0 |
| Austin-Round Rock, TX | 18 | 12 | 8 | 6 | 14 | 2.1 | 1.3 | 0.9 | 0.6 | 1.5 |
| Baltimore-Columbia-Towson, MD | 19 | 39 | 39 | 46 | 42 | 1.4 | 2.8 | 2.7 | 3.2 | 2.9 |
| Birmingham-Hoover, AL | 21 | 10 | 7 | 5 | 5 | 3.6 | 1.7 | 1.2 | 0.8 | 0.8 |
| Boston-Cambridge-Newton, MA-NH | 12 | 14 | 5 | 10 | 14 | 0.5 | 0.6 | 0.2 | 0.4 | 0.6 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 0 | 2 | 1 | 2 | 1 | 0.0 | 0.3 | 0.2 | 0.3 | 0.2 |
| Charlotte-Concord-Gastonia, NC-SC | 6 | 14 | 15 | 6 | 6 | 0.5 | 1.2 | 1.3 | 0.5 | 0.5 |
| Chicago-Naperville-Elgin, IL-IN-WI | 107 | 77 | 77 | 65 | 76 | 2.2 | 1.6 | 1.6 | 1.3 | 1.6 |
| Cincinnati, OH-KY-IN | 107 | 99 | 63 | 31 | 33 | 9.9 | 9.1 | 5.8 | 2.8 | 3.0 |
| Cleveland-Elyria, OH | 6 | 3 | 5 | 2 | 5 | 0.6 | 0.3 | 0.5 | 0.2 | 0.5 |
| Columbus, OH | 13 | 10 | 14 | 18 | 34 | 1.3 | 1.0 | 1.4 | 1.8 | 3.4 |
| Dallas-Fort Worth-Arlington, TX | 103 | 63 | 56 | 41 | 63 | 3.2 | 1.9 | 1.6 | 1.2 | 1.8 |
| Denver-Aurora-Lakewood, CO | 0 | 1 | 3 | 3 | 4 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 |
| Detroit-Warren-Dearborn, MI | 9 | 20 | 27 | 25 | 23 | 0.4 | 0.9 | 1.2 | 1.1 | 1.0 |
| Hartford-West Hartford-East Hartford, CT | 3 | 2 | 3 | 0 | 2 | 0.5 | 0.3 | 0.5 | 0.0 | 0.3 |
| Houston-The Woodlands-Sugar Land, TX | 77 | 69 | 97 | 59 | 64 | 2.6 | 2.3 | 3.1 | 1.9 | 2.0 |
| Indianapolis-Carmel-Anderson, IN | 12 | 5 | 10 | 9 | 5 | 1.2 | 0.5 | 1.0 | 0.9 | 0.5 |
| Jacksonville, FL | 11 | 11 | 4 | 5 | 9 | 1.6 | 1.6 | 0.6 | 0.7 | 1.3 |
| Kansas City, MO-KS | 1 | 4 | 1 | 9 | 23 | 0.1 | 0.4 | 0.1 | 0.9 | 2.2 |
| Las Vegas-Henderson-Paradise, NV | 6 | 4 | 2 | 6 | 17 | 0.6 | 0.4 | 0.2 | 0.6 | 1.7 |
| Los Angeles-Long Beach-Anaheim, CA | 17 | 16 | 26 | 50 | 67 | 0.3 | 0.2 | 0.4 | 0.8 | 1.0 |
| Louisville/Jefferson County, KY-IN | 4 | 7 | 9 | 11 | 14 | 0.6 | 1.1 | 1.4 | 1.7 | 2.2 |
| Memphis, TN-MS-AR | 33 | 22 | 22 | 17 | 22 | 4.8 | 3.2 | 3.2 | 2.4 | 3.2 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 55 | 47 | 63 | 65 | 44 | 1.9 | 1.6 | 2.1 | 2.2 | 1.5 |
| Milwaukee-Waukesha-West Allis, WI | 5 | 5 | 5 | 5 | 6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 5 | 5 | 7 | 9 | 19 | 0.3 | 0.3 | 0.4 | 0.5 | 1.1 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 11 | 3 | 1 | 4 | 5 | 1.3 | 0.3 | 0.1 | 0.4 | 0.6 |
| New Orleans-Metairie, LA | 31 | 17 | 9 | 10 | 18 | 5.1 | 2.7 | 1.4 | 1.6 | 2.8 |
| New York-Newark-Jersey City, NY-NJ-PA | 53 | 39 | 57 | 46 | 52 | 0.5 | 0.4 | 0.6 | 0.4 | 0.5 |
| Oklahoma City, OK | 12 | 6 | 1 | 5 | 7 | 1.9 | 0.9 | 0.2 | 0.7 | 1.0 |
| Orlando-Kissimmee-Sanford, FL | 7 | 10 | 15 | 9 | 8 | 0.6 | 0.9 | 1.3 | 0.8 | 0.7 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 33 | 28 | 30 | 24 | 39 | 1.1 | 0.9 | 1.0 | 0.8 | 1.3 |
| Phoenix-Mesa-Scottsdale, AZ | 12 | 9 | 14 | 22 | 42 | 0.6 | 0.4 | 0.6 | 1.0 | 1.9 |
| Pittsburgh, PA | 2 | 4 | 5 | 2 | 6 | 0.2 | 0.3 | 0.4 | 0.2 | 0.5 |
| Portland-Vancouver-Hillsboro, OR-WA | 2 | 0 | 9 | 9 | 9 | 0.2 | 0.0 | 0.8 | 0.8 | 0.8 |
| Providence-Warwick, RI-MA | 3 | 3 | 1 | 3 | 8 | 0.4 | 0.4 | 0.1 | 0.4 | 1.0 |
| Raleigh, NC | 5 | 1 | 5 | 9 | 6 | 0.9 | 0.2 | 0.8 | 1.4 | 1.0 |
| Richmond, VA | 6 | 10 | 10 | 4 | 2 | 1.0 | 1.6 | 1.6 | 0.6 | 0.3 |
| Riverside-San Bernardino-Ontario, CA | 1 | 8 | 3 | 7 | 15 | 0.0 | 0.4 | 0.1 | 0.3 | 0.7 |
| Sacramento--Roseville--Arden-Arcade, CA | 12 | 7 | 5 | 10 | 11 | 1.1 | 0.6 | 0.4 | 0.9 | 1.0 |
| Salt Lake City, UT | 0 | 0 | 0 | 1 | 1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 |
| San Antonio-New Braunfels, TX | 28 | 39 | 59 | 44 | 47 | 2.6 | 3.5 | 5.2 | 3.8 | 4.1 |
| San Diego-Carlsbad, CA | 3 | 13 | 12 | 10 | 20 | 0.2 | 0.8 | 0.8 | 0.6 | 1.3 |
| San Francisco-Oakland-Hayward, CA | 20 | 27 | 28 | 40 | 34 | 0.9 | 1.2 | 1.2 | 1.7 | 1.5 |
| San Jose-Sunnyvale-Santa Clara, CA | 3 | 4 | 3 | 9 | 12 | 0.3 | 0.4 | 0.3 | 0.9 | 1.3 |
| Seattle-Tacoma-Bellevue, WA | 2 | 3 | 6 | 10 | 10 | 0.1 | 0.2 | 0.3 | 0.6 | 0.6 |
| St. Louis, MO-IL | 3 | 3 | 9 | 6 | 17 | 0.2 | 0.2 | 0.6 | 0.4 | 1.2 |
| Tampa-St. Petersburg-Clearwater, FL | 33 | 26 | 29 | 31 | 41 | 2.3 | 1.8 | 2.0 | 2.1 | 2.8 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 3 | 7 | 5 | 5 | 8 | 0.4 | 0.8 | 0.6 | 0.6 | 0.9 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 13 | 16 | 15 | 35 | 7 | 0.4 | 0.5 | 0.5 | 1.2 | 0.2 |
| SELECTED MSAs TOTAL | 992 | 884 | 933 | 912 | 1,095 | 1.2 | 1.0 | 1.1 | 1.0 | 1.2 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 32. Primary and Secondary Syphilis Among Men — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|--------------|--------------|---------------|---------------|---------------|------------------------------|-------------|-------------|-------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 607 | 541 | 712 | 737 | 938 | 23.6 | 20.6 | 26.8 | 27.5 | 35.0 |
| Austin-Round Rock, TX | 89 | 102 | 146 | 139 | 213 | 10.3 | 11.4 | 15.9 | 14.7 | 22.6 |
| Baltimore-Columbia-Towson, MD | 193 | 269 | 268 | 242 | 240 | 14.8 | 20.5 | 20.2 | 18.1 | 18.0 |
| Birmingham-Hoover, AL | 61 | 79 | 66 | 64 | 53 | 11.2 | 14.5 | 12.1 | 11.6 | 9.6 |
| Boston-Cambridge-Newton, MA-NH | 228 | 177 | 199 | 258 | 213 | 10.4 | 8.0 | 8.8 | 11.4 | 9.4 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 11 | 12 | 26 | 36 | 48 | 2.0 | 2.2 | 4.7 | 6.6 | 8.7 |
| Charlotte-Concord-Gastonia, NC-SC | 110 | 138 | 101 | 128 | 214 | 10.2 | 12.6 | 9.0 | 11.3 | 18.9 |
| Chicago-Naperville-Elgin, IL-IN-WI | 774 | 776 | 682 | 697 | 735 | 16.7 | 16.7 | 14.6 | 14.9 | 15.7 |
| Cincinnati, OH-KY-IN | 165 | 129 | 103 | 135 | 120 | 16.0 | 12.4 | 9.9 | 12.9 | 11.5 |
| Cleveland-Elyria, OH | 76 | 52 | 39 | 30 | 75 | 7.6 | 5.2 | 3.9 | 3.0 | 7.5 |
| Columbus, OH | 110 | 112 | 145 | 149 | 216 | 11.8 | 11.8 | 15.2 | 15.4 | 22.3 |
| Dallas-Fort Worth-Arlington, TX | 239 | 254 | 335 | 404 | 445 | 7.5 | 7.8 | 10.1 | 12.0 | 13.3 |
| Denver-Aurora-Lakewood, CO | 120 | 115 | 180 | 132 | 149 | 9.5 | 8.9 | 13.7 | 9.8 | 11.1 |
| Detroit-Warren-Dearborn, MI | 137 | 183 | 208 | 369 | 294 | 6.6 | 8.8 | 10.0 | 17.7 | 14.1 |
| Hartford-West Hartford-East Hartford, CT | 29 | 13 | 6 | 14 | 24 | 4.9 | 2.2 | 1.0 | 2.4 | 4.1 |
| Houston-The Woodlands-Sugar Land, TX | 253 | 253 | 440 | 304 | 350 | 8.6 | 8.4 | 14.3 | 9.7 | 11.1 |
| Indianapolis-Carmel-Anderson, IN | 97 | 86 | 140 | 137 | 104 | 10.5 | 9.2 | 14.8 | 14.3 | 10.9 |
| Jacksonville, FL | 38 | 36 | 40 | 35 | 60 | 5.8 | 5.4 | 6.0 | 5.2 | 8.8 |
| Kansas City, MO-KS | 42 | 53 | 64 | 146 | 197 | 4.3 | 5.3 | 6.4 | 14.5 | 19.5 |
| Las Vegas-Henderson-Paradise, NV | 119 | 122 | 95 | 158 | 301 | 12.1 | 12.3 | 9.4 | 15.5 | 29.6 |
| Los Angeles-Long Beach-Anaheim, CA | 749 | 858 | 1,019 | 1,248 | 1,340 | 11.8 | 13.4 | 15.8 | 19.2 | 20.7 |
| Louisville/Jefferson County, KY-IN | 100 | 85 | 72 | 60 | 69 | 16.6 | 14.0 | 11.8 | 9.7 | 11.2 |
| Memphis, TN-MS-AR | 133 | 98 | 88 | 88 | 72 | 20.9 | 15.3 | 13.7 | 13.7 | 11.2 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 597 | 583 | 642 | 697 | 777 | 22.2 | 21.2 | 23.0 | 24.6 | 27.5 |
| Milwaukee-Waukesha-West Allis, WI | 24 | 30 | 38 | 49 | 46 | 3.2 | 3.9 | 5.0 | 6.4 | 6.0 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 135 | 122 | 109 | 169 | 223 | 8.2 | 7.3 | 6.4 | 9.9 | 13.0 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 65 | 82 | 87 | 53 | 69 | 8.0 | 9.9 | 10.3 | 6.2 | 8.0 |
| New Orleans-Metairie, LA | 55 | 84 | 57 | 93 | 203 | 9.5 | 14.2 | 9.6 | 15.4 | 33.7 |
| New York-Newark-Jersey City, NY-NJ-PA | 1,175 | 1,129 | 1,254 | 1,438 | 1,666 | 12.5 | 11.9 | 13.1 | 14.9 | 17.3 |
| Oklahoma City, OK | 43 | 33 | 53 | 73 | 84 | 7.0 | 5.2 | 8.3 | 11.2 | 12.9 |
| Orlando-Kissimmee-Sanford, FL | 96 | 164 | 153 | 192 | 231 | 9.2 | 15.4 | 14.1 | 17.3 | 20.8 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 274 | 274 | 339 | 372 | 407 | 9.5 | 9.5 | 11.7 | 12.8 | 14.0 |
| Phoenix-Mesa-Scottsdale, AZ | 149 | 202 | 148 | 197 | 374 | 7.1 | 9.5 | 6.9 | 9.0 | 17.1 |
| Pittsburgh, PA | 34 | 45 | 56 | 37 | 72 | 3.0 | 3.9 | 4.9 | 3.2 | 6.3 |
| Portland-Vancouver-Hillsboro, OR-WA | 64 | 90 | 200 | 231 | 197 | 5.8 | 8.0 | 17.7 | 20.2 | 17.2 |
| Providence-Warwick, RI-MA | 44 | 52 | 57 | 62 | 84 | 5.7 | 6.7 | 7.4 | 8.0 | 10.8 |
| Raleigh, NC | 39 | 46 | 51 | 61 | 123 | 7.1 | 8.1 | 8.8 | 10.3 | 20.7 |
| Richmond, VA | 82 | 40 | 54 | 66 | 66 | 14.0 | 6.8 | 9.1 | 11.0 | 11.0 |
| Riverside-San Bernardino-Ontario, CA | 156 | 171 | 163 | 196 | 273 | 7.4 | 8.0 | 7.5 | 9.0 | 12.5 |
| Sacramento--Roseville--Arden-Arcade, CA | 45 | 122 | 144 | 137 | 151 | 4.3 | 11.4 | 13.4 | 12.6 | 13.9 |
| Salt Lake City, UT | 54 | 9 | 34 | 64 | 38 | 9.9 | 1.6 | 6.0 | 11.2 | 6.6 |
| San Antonio-New Braunfels, TX | 155 | 149 | 270 | 266 | 200 | 14.7 | 13.8 | 24.5 | 23.7 | 17.8 |
| San Diego-Carlsbad, CA | 271 | 279 | 318 | 323 | 351 | 17.4 | 17.7 | 19.9 | 20.0 | 21.7 |
| San Francisco-Oakland-Hayward, CA | 523 | 596 | 713 | 773 | 731 | 24.5 | 27.5 | 32.4 | 34.7 | 32.8 |
| San Jose-Sunnyvale-Santa Clara, CA | 88 | 64 | 102 | 137 | 108 | 9.5 | 6.8 | 10.7 | 14.2 | 11.2 |
| Seattle-Tacoma-Bellevue, WA | 234 | 273 | 242 | 201 | 225 | 13.7 | 15.6 | 13.7 | 11.2 | 12.5 |
| St. Louis, MO-IL | 115 | 89 | 86 | 102 | 136 | 8.5 | 6.6 | 6.4 | 7.5 | 10.0 |
| Tampa-St. Petersburg-Clearwater, FL | 150 | 173 | 201 | 195 | 278 | 11.1 | 12.6 | 14.6 | 14.0 | 20.0 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 89 | 57 | 101 | 97 | 77 | 10.8 | 6.9 | 12.1 | 11.5 | 9.2 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 298 | 344 | 343 | 383 | 219 | 10.9 | 12.3 | 12.0 | 13.2 | 7.5 |
| SELECTED MSAs TOTAL | 9,534 | 9,845 | 11,189 | 12,374 | 13,879 | 11.6 | 11.9 | 13.3 | 14.6 | 16.4 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

NOTE: Cases reported with unknown sex are not included in this table.

Table 33. Primary and Secondary Syphilis — Reported Cases and Rates of Reported Cases in Counties and Independent Cities* Ranked by Number of Reported Cases, United States, 2014

| Rank [†] | County/Independent City | Cases | Rate per 100,000 Population | Cumulative Percentage |
|-------------------|-----------------------------|-------|-----------------------------|-----------------------|
| 1 | Los Angeles County, CA | 1,204 | 12.0 | 6 |
| 2 | Cook County, IL | 724 | 13.8 | 9 |
| 3 | New York County, NY | 497 | 30.6 | 12 |
| 4 | San Francisco County, CA | 470 | 56.1 | 14 |
| 5 | Miami-Dade County, FL | 434 | 16.6 | 16 |
| 6 | Fulton County, GA | 429 | 43.6 | 18 |
| 7 | Maricopa County, AZ | 412 | 10.3 | 20 |
| 8 | San Diego County, CA | 371 | 11.6 | 22 |
| 9 | Harris County, TX | 366 | 8.4 | 24 |
| 10 | Kings County, NY | 348 | 13.4 | 26 |
| 11 | Broward County, FL | 323 | 17.6 | 27 |
| 12 | Clark County, NV | 318 | 15.7 | 29 |
| 13 | Philadelphia County, PA | 308 | 19.8 | 31 |
| 14 | Dallas County, TX | 299 | 12.1 | 32 |
| 15 | Bronx County, NY | 283 | 19.9 | 33 |
| 16 | DeKalb County, GA | 242 | 33.9 | 35 |
| 17 | Franklin County, OH | 232 | 19.1 | 36 |
| 18 | Bexar County, TX | 227 | 12.5 | 37 |
| 19 | Hillsborough County, FL | 218 | 16.9 | 38 |
| 20 | Wayne County, MI | 213 | 12.0 | 39 |
| 21 | Orange County, CA | 203 | 6.5 | 40 |
| 22 | Travis County, TX | 193 | 17.2 | 41 |
| 23 | Baltimore (City), MD | 192 | 30.9 | 42 |
| 24 | Riverside County, CA | 188 | 8.2 | 43 |
| 25 | Orange County, FL | 186 | 15.2 | 44 |
| 26 | Queens County, NY | 185 | 8.1 | 45 |
| 27 | Mecklenburg County, NC | 181 | 18.3 | 46 |
| 28 | King County, WA | 176 | 8.6 | 47 |
| 29 | Jackson County, MO | 173 | 25.4 | 47 |
| 30 | Hennepin County, MN | 167 | 13.9 | 48 |
| 31 | Tarrant County, TX | 164 | 8.6 | 49 |
| 32 | Orleans Parish, LA | 148 | 39.1 | 50 |
| 33 | Alameda County, CA | 145 | 9.2 | 51 |
| 34 | Pima County, AZ | 144 | 14.4 | 51 |
| 35 | Multnomah County, OR | 140 | 18.3 | 52 |
| 36 | Kern County, CA | 140 | 16.2 | 53 |
| 37 | Sacramento County, CA | 137 | 9.4 | 53 |
| 38 | Hamilton County, OH | 121 | 15.0 | 54 |
| 39 | Santa Clara County, CA | 119 | 6.4 | 55 |
| 40 | Fresno County, CA | 118 | 12.4 | 55 |
| 41 | Wake County, NC | 115 | 11.8 | 56 |
| 42 | Prince George's County, MD | 111 | 12.5 | 56 |
| 43 | San Bernardino County, CA | 100 | 4.8 | 57 |
| 44 | Gwinnett County, GA | 96 | 11.2 | 57 |
| 45 | Marion County, IN | 96 | 10.3 | 58 |
| 46 | Denver County, CO | 90 | 13.9 | 58 |
| 47 | San Joaquin County, CA | 88 | 12.5 | 59 |
| 48 | Suffolk County, MA | 86 | 11.4 | 59 |
| 49 | Cobb County, GA | 84 | 11.7 | 60 |
| 50 | Contra Costa County, CA | 83 | 7.6 | 60 |
| 51 | St. Louis (City), MO | 82 | 25.8 | 60 |
| 52 | Clayton County, GA | 80 | 30.3 | 61 |
| 53 | Pinellas County, FL | 79 | 8.5 | 61 |
| 54 | Shelby County, TN | 78 | 8.3 | 62 |
| 55 | Oklahoma County, OK | 77 | 10.2 | 62 |
| 56 | Richland County, SC | 76 | 19.0 | 62 |
| 57 | Jefferson County, KY | 74 | 9.8 | 63 |
| 58 | Caddo Parish, LA | 73 | 28.6 | 63 |
| 59 | East Baton Rouge Parish, LA | 73 | 16.4 | 63 |
| 60 | Hudson County, NJ | 72 | 10.9 | 64 |
| 61 | Oakland County, MI | 72 | 5.8 | 64 |
| 62 | Cuyahoga County, OH | 72 | 5.7 | 64 |
| 63 | Allegheny County, PA | 68 | 5.5 | 65 |
| 64 | Middlesex County, MA | 67 | 4.3 | 65 |
| 65 | Bernalillo County, NM | 66 | 9.8 | 65 |
| 66 | Stanislaus County, CA | 65 | 12.4 | 66 |
| 67 | Duval County, FL | 65 | 7.3 | 66 |
| 68 | Palm Beach County, FL | 64 | 4.7 | 66 |
| 69 | Cumberland County, NC | 59 | 18.1 | 67 |
| 70 | Davidson County, TN | 58 | 8.8 | 67 |

* Accounting for 67% of reported primary and secondary syphilis cases.

† Counties and independent cities were ranked in descending order by number of cases reported then by rate in 2014.

Table 34. Primary and Secondary Syphilis Among Men and Women — Reported Cases and Rates of Reported Cases per 100,000 population, and Male-To-Female Rate Ratios in the Counties and Independent Cities Ranked in the Top 30 for Cases in 2014, United States, 2013–2014

| County/Independent City* | Male | | | | Female | | | | Male-to-Female Rate Ratio | |
|--------------------------|-------|-------|-------|-------|--------|-------|-------|-------|---------------------------|------|
| | 2013 | | 2014 | | 2013 | | 2014 | | 2013 | 2014 |
| | Cases | Rates | Cases | Rates | Cases | Rates | Cases | Rates | | |
| Maricopa County, AZ | 191 | 9.6 | 371 | 18.7 | 21 | 1.0 | 41 | 2.0 | 9.6 | 9.4 |
| Los Angeles County, CA | 1,055 | 21.3 | 1,151 | 23.3 | 40 | 0.8 | 53 | 1.0 | 26.6 | 23.3 |
| Orange County, CA | 193 | 12.5 | 189 | 12.3 | 10 | 0.6 | 14 | 0.9 | 20.8 | 13.7 |
| Riverside County, CA | 126 | 11.0 | 182 | 15.9 | 2 | 0.2 | 6 | 0.5 | 55.0 | 31.8 |
| San Diego County, CA | 323 | 20.0 | 351 | 21.7 | 10 | 0.6 | 20 | 1.3 | 33.3 | 16.7 |
| San Francisco County, CA | 489 | 115 | 464 | 109 | 13 | 3.2 | 4 | 1.0 | 35.8 | 109 |
| Broward County, FL | 242 | 27.1 | 310 | 34.7 | 23 | 2.4 | 13 | 1.4 | 11.3 | 24.8 |
| Hillsborough County, FL | 137 | 21.8 | 187 | 29.7 | 26 | 3.9 | 30 | 4.5 | 5.6 | 6.6 |
| Miami-Dade County, FL | 382 | 30.0 | 410 | 32.2 | 31 | 2.3 | 24 | 1.8 | 13.0 | 17.9 |
| Orange County, FL | 141 | 23.4 | 180 | 29.8 | 6 | 1.0 | 6 | 1.0 | 23.4 | 29.8 |
| DeKalb County, GA | 186 | 54.6 | 229 | 67.2 | 12 | 3.2 | 13 | 3.5 | 17.1 | 19.2 |
| Fulton County, GA | 358 | 74.7 | 408 | 85.2 | 21 | 4.2 | 21 | 4.2 | 17.8 | 20.3 |
| Cook County, IL | 635 | 25.0 | 654 | 25.7 | 58 | 2.1 | 70 | 2.6 | 11.9 | 9.9 |
| Baltimore (City), MD | 177 | 60.3 | 162 | 55.2 | 34 | 10.3 | 30 | 9.1 | 5.9 | 6.1 |
| Wayne County, MI | 267 | 31.3 | 194 | 22.7 | 19 | 2.1 | 19 | 2.1 | 14.9 | 10.8 |
| Hennepin County, MN | 125 | 21.2 | 152 | 25.8 | 6 | 1.0 | 14 | 2.3 | 21.2 | 11.2 |
| Jackson County, MO | 105 | 31.9 | 157 | 47.7 | 7 | 2.0 | 16 | 4.6 | 16.0 | 10.4 |
| Clark County, NV | 158 | 15.5 | 301 | 29.6 | 6 | 0.6 | 17 | 1.7 | 25.8 | 17.4 |
| Bronx County, NY | 226 | 33.8 | 270 | 40.4 | 8 | 1.1 | 11 | 1.5 | 30.7 | 26.9 |
| Kings County, NY | 278 | 22.6 | 339 | 27.6 | 5 | 0.4 | 9 | 0.7 | 56.5 | 39.4 |
| New York County, NY | 477 | 62.1 | 491 | 63.9 | 7 | 0.8 | 6 | 0.7 | 77.6 | 91.3 |
| Queens County, NY | 139 | 12.5 | 179 | 16.1 | 6 | 0.5 | 6 | 0.5 | 25.0 | 32.2 |
| Mecklenburg County, NC | 103 | 21.6 | 178 | 37.3 | 5 | 1.0 | 3 | 0.6 | 21.6 | 62.2 |
| Franklin County, OH | 141 | 23.9 | 201 | 34.0 | 15 | 2.4 | 31 | 5.0 | 10.0 | 6.8 |
| Philadelphia County, PA | 262 | 35.7 | 279 | 38.0 | 16 | 2.0 | 29 | 3.5 | 17.9 | 10.9 |
| Bexar County, TX | 251 | 28.0 | 182 | 20.3 | 42 | 4.6 | 45 | 4.9 | 6.1 | 4.1 |
| Dallas County, TX | 222 | 18.1 | 267 | 21.8 | 22 | 1.8 | 32 | 2.6 | 10.1 | 8.4 |
| Harris County, TX | 269 | 12.4 | 311 | 14.4 | 50 | 2.3 | 55 | 2.5 | 5.4 | 5.8 |
| Travis County, TX | 122 | 21.6 | 183 | 32.3 | 6 | 1.1 | 10 | 1.8 | 19.6 | 17.9 |
| King County, WA | 165 | 16.2 | 168 | 16.4 | 6 | 0.6 | 8 | 0.8 | 27.0 | 20.5 |

* Counties and independent cities are in alphabetical order by state.

Table 35. Primary and Secondary Syphilis — Reported Cases and Rates of Reported Cases by Age Group and Sex, United States, 2010–2014

| | Age Group | Cases | | | | Rates* | | |
|------|--------------|---------------|---------------|--------------|-------------|------------|-------------|------------|
| | | Total | Male | Female | Unknown Sex | Total | Male | Female |
| 2010 | 0–4 | 1 | 0 | 1 | 0 | 0.0 | 0.0 | 0.0 |
| | 5–9 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 10–14 | 18 | 7 | 11 | 0 | 0.1 | 0.1 | 0.1 |
| | 15–19 | 932 | 617 | 313 | 2 | 4.2 | 5.5 | 2.9 |
| | 20–24 | 2,907 | 2,429 | 474 | 4 | 13.5 | 22.1 | 4.5 |
| | 25–29 | 2,455 | 2,131 | 322 | 2 | 11.6 | 20.0 | 3.1 |
| | 30–34 | 1,794 | 1,597 | 197 | 0 | 9.0 | 16.0 | 2.0 |
| | 35–39 | 1,454 | 1,313 | 140 | 1 | 7.2 | 13.1 | 1.4 |
| | 40–44 | 1,553 | 1,448 | 104 | 1 | 7.4 | 13.9 | 1.0 |
| | 45–54 | 2,056 | 1,877 | 176 | 3 | 4.6 | 8.5 | 0.8 |
| | 55–64 | 493 | 457 | 36 | 0 | 1.4 | 2.6 | 0.2 |
| | 65+ | 107 | 102 | 5 | 0 | 0.3 | 0.6 | 0.0 |
| | Unknown Age | 4 | 3 | 1 | 0 | | | |
| | TOTAL | 13,774 | 11,981 | 1,780 | 13 | 4.5 | 7.9 | 1.1 |
| 2011 | 0–4 | 9 | 5 | 4 | 0 | 0.0 | 0.0 | 0.0 |
| | 5–9 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 10–14 | 15 | 6 | 9 | 0 | 0.1 | 0.1 | 0.1 |
| | 15–19 | 864 | 606 | 258 | 0 | 4.0 | 5.5 | 2.5 |
| | 20–24 | 2,987 | 2,582 | 403 | 2 | 13.5 | 22.8 | 3.7 |
| | 25–29 | 2,546 | 2,277 | 268 | 1 | 12.0 | 21.2 | 2.5 |
| | 30–34 | 1,846 | 1,657 | 187 | 2 | 9.0 | 16.1 | 1.8 |
| | 35–39 | 1,382 | 1,265 | 115 | 2 | 7.1 | 13.0 | 1.2 |
| | 40–44 | 1,503 | 1,408 | 91 | 4 | 7.1 | 13.5 | 0.9 |
| | 45–54 | 2,123 | 1,999 | 120 | 4 | 4.7 | 9.1 | 0.5 |
| | 55–64 | 554 | 510 | 43 | 1 | 1.5 | 2.8 | 0.2 |
| | 65+ | 138 | 135 | 3 | 0 | 0.3 | 0.8 | 0.0 |
| | Unknown Age | 2 | 2 | 0 | 0 | | | |
| | TOTAL | 13,970 | 12,453 | 1,501 | 16 | 4.5 | 8.1 | 0.9 |
| 2012 | 0–4 | 1 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 5–9 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 10–14 | 9 | 5 | 4 | 0 | 0.0 | 0.0 | 0.0 |
| | 15–19 | 880 | 640 | 238 | 2 | 4.1 | 5.8 | 2.3 |
| | 20–24 | 3,280 | 2,859 | 418 | 3 | 14.5 | 24.8 | 3.8 |
| | 25–29 | 2,911 | 2,641 | 266 | 4 | 13.6 | 24.4 | 2.5 |
| | 30–34 | 2,209 | 2,023 | 182 | 4 | 10.6 | 19.3 | 1.7 |
| | 35–39 | 1,563 | 1,443 | 120 | 0 | 8.0 | 14.9 | 1.2 |
| | 40–44 | 1,618 | 1,544 | 70 | 4 | 7.7 | 14.8 | 0.7 |
| | 45–54 | 2,439 | 2,310 | 128 | 1 | 5.5 | 10.6 | 0.6 |
| | 55–64 | 614 | 586 | 27 | 1 | 1.6 | 3.2 | 0.1 |
| | 65+ | 123 | 121 | 2 | 0 | 0.3 | 0.6 | 0.0 |
| | Unknown Age | 20 | 17 | 3 | 0 | | | |
| | TOTAL | 15,667 | 14,190 | 1,458 | 19 | 5.0 | 9.2 | 0.9 |
| 2013 | 0–4 | 5 | 2 | 3 | 0 | 0.0 | 0.0 | 0.0 |
| | 5–9 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 10–14 | 23 | 14 | 9 | 0 | 0.1 | 0.1 | 0.1 |
| | 15–19 | 900 | 700 | 200 | 0 | 4.3 | 6.5 | 1.9 |
| | 20–24 | 3,642 | 3,204 | 435 | 3 | 16.0 | 27.4 | 3.9 |
| | 25–29 | 3,329 | 3,037 | 286 | 6 | 15.4 | 27.7 | 2.7 |
| | 30–34 | 2,447 | 2,272 | 172 | 3 | 11.5 | 21.3 | 1.6 |
| | 35–39 | 1,800 | 1,674 | 125 | 1 | 9.2 | 17.1 | 1.3 |
| | 40–44 | 1,693 | 1,587 | 105 | 1 | 8.1 | 15.3 | 1.0 |
| | 45–54 | 2,614 | 2,495 | 119 | 0 | 6.0 | 11.6 | 0.5 |
| | 55–64 | 750 | 716 | 34 | 0 | 1.9 | 3.8 | 0.2 |
| | 65+ | 162 | 152 | 10 | 0 | 0.4 | 0.8 | 0.0 |
| | Unknown Age | 10 | 8 | 2 | 0 | | | |
| | TOTAL | 17,375 | 15,861 | 1,500 | 14 | 5.5 | 10.2 | 0.9 |
| 2014 | 0–4 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 5–9 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | 10–14 | 12 | 4 | 8 | 0 | 0.1 | 0.0 | 0.1 |
| | 15–19 | 1,023 | 761 | 262 | 0 | 4.8 | 7.0 | 2.5 |
| | 20–24 | 4,137 | 3,632 | 503 | 2 | 18.1 | 31.1 | 4.5 |
| | 25–29 | 4,092 | 3,727 | 361 | 4 | 19.0 | 34.0 | 3.4 |
| | 30–34 | 2,887 | 2,635 | 248 | 4 | 13.6 | 24.7 | 2.3 |
| | 35–39 | 2,045 | 1,868 | 177 | 0 | 10.4 | 19.1 | 1.8 |
| | 40–44 | 1,758 | 1,654 | 103 | 1 | 8.4 | 16.0 | 1.0 |
| | 45–54 | 2,966 | 2,830 | 135 | 1 | 6.8 | 13.1 | 0.6 |
| | 55–64 | 897 | 860 | 36 | 1 | 2.3 | 4.5 | 0.2 |
| | 65+ | 176 | 169 | 7 | 0 | 0.4 | 0.9 | 0.0 |
| | Unknown Age | 6 | 6 | 0 | 0 | | | |
| | TOTAL | 19,999 | 18,146 | 1,840 | 13 | 6.3 | 11.7 | 1.1 |

* No population data are available for unknown sex and age; therefore, rates are not calculated.

NOTE: This table should be used only for age comparisons.

Cases in the 0–4 and 5–9 age groups may include cases due to congenital transmission.

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Table 36A. Primary and Secondary Syphilis — Reported Cases by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|------------|-----------|------------|------------|-----------|----------------------|--------------|------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5–9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10–14 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 5 |
| 15–19 | 20 | 8 | 12 | 8 | 8 | 0 | 532 | 375 | 157 |
| 20–24 | 32 | 23 | 9 | 84 | 82 | 2 | 2,066 | 1,756 | 309 |
| 25–29 | 35 | 25 | 10 | 101 | 98 | 3 | 1,798 | 1,628 | 169 |
| 30–34 | 29 | 24 | 5 | 67 | 66 | 1 | 1,036 | 918 | 116 |
| 35–39 | 22 | 12 | 10 | 59 | 56 | 3 | 579 | 512 | 67 |
| 40–44 | 14 | 12 | 2 | 48 | 46 | 2 | 431 | 394 | 37 |
| 45–54 | 15 | 9 | 6 | 51 | 49 | 2 | 584 | 531 | 53 |
| 55–64 | 1 | 1 | 0 | 10 | 9 | 1 | 189 | 177 | 12 |
| 65+ | 0 | 0 | 0 | 2 | 2 | 0 | 28 | 28 | 0 |
| Unknown Age | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| TOTAL | 168 | 114 | 54 | 430 | 416 | 14 | 7,253 | 6,324 | 925 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|-----------|----------|----------------------|--------------|------------|------------|------------|-----------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5–9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10–14 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 15–19 | 2 | 2 | 0 | 158 | 115 | 43 | 11 | 10 | 1 |
| 20–24 | 11 | 11 | 0 | 904 | 811 | 93 | 56 | 53 | 3 |
| 25–29 | 6 | 5 | 1 | 1,052 | 958 | 94 | 53 | 50 | 3 |
| 30–34 | 7 | 7 | 0 | 934 | 865 | 69 | 56 | 52 | 4 |
| 35–39 | 2 | 2 | 0 | 742 | 688 | 54 | 43 | 41 | 2 |
| 40–44 | 2 | 2 | 0 | 771 | 733 | 38 | 29 | 29 | 0 |
| 45–54 | 2 | 2 | 0 | 1,584 | 1,537 | 47 | 31 | 30 | 1 |
| 55–64 | 1 | 0 | 1 | 542 | 530 | 11 | 12 | 11 | 1 |
| 65+ | 0 | 0 | 0 | 111 | 106 | 5 | 0 | 0 | 0 |
| Unknown Age | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| TOTAL | 33 | 31 | 2 | 6,800 | 6,345 | 454 | 292 | 276 | 16 |

| Age Group | Hispanics | | | Other/Unknown | | |
|--------------|--------------|--------------|------------|---------------|------------|-----------|
| | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5–9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10–14 | 3 | 2 | 1 | 1 | 0 | 1 |
| 15–19 | 240 | 202 | 38 | 45 | 36 | 9 |
| 20–24 | 844 | 772 | 72 | 126 | 110 | 15 |
| 25–29 | 853 | 787 | 65 | 163 | 149 | 14 |
| 30–34 | 607 | 565 | 42 | 127 | 117 | 10 |
| 35–39 | 495 | 465 | 30 | 91 | 81 | 10 |
| 40–44 | 386 | 365 | 20 | 63 | 59 | 4 |
| 45–54 | 495 | 477 | 18 | 171 | 163 | 8 |
| 55–64 | 92 | 84 | 8 | 41 | 40 | 1 |
| 65+ | 17 | 15 | 2 | 14 | 14 | 0 |
| Unknown Age | 0 | 0 | 0 | 1 | 1 | 0 |
| TOTAL | 4,032 | 3,734 | 296 | 843 | 770 | 72 |

* Includes 49 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

† Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 35 for age-specific cases and rates and Tables 27–29 for total and sex-specific cases and rates.

Cases in the 0–4 and 5–9 age groups may include cases due to congenital transmission.

Table 36B. Primary and Secondary Syphilis — Rates of Reported Cases per 100,000 Population by Race/Ethnicity, Age Group, and Sex, United States*, 2014

| Age Group | American Indians/ Alaska Natives | | | Asians | | | Blacks, Non-Hispanic | | |
|--------------|-------------------------------------|-------------|------------|------------|------------|------------|----------------------|-------------|------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5–9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10–14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.4 |
| 15–19 | 11.1 | 8.7 | 13.7 | 0.8 | 1.7 | 0.0 | 17.1 | 23.7 | 10.3 |
| 20–24 | 17.1 | 24.0 | 9.8 | 7.2 | 13.8 | 0.3 | 62.7 | 106.3 | 18.8 |
| 25–29 | 21.9 | 31.1 | 12.5 | 7.8 | 15.7 | 0.4 | 65.2 | 121.3 | 11.9 |
| 30–34 | 19.5 | 32.5 | 6.7 | 5.1 | 10.7 | 0.1 | 39.0 | 72.4 | 8.3 |
| 35–39 | 16.1 | 17.8 | 14.4 | 4.5 | 9.1 | 0.4 | 23.7 | 44.4 | 5.2 |
| 40–44 | 9.8 | 17.0 | 2.8 | 3.8 | 7.7 | 0.3 | 16.6 | 32.1 | 2.7 |
| 45–54 | 4.9 | 6.1 | 3.8 | 2.4 | 4.9 | 0.2 | 10.9 | 21.1 | 1.9 |
| 55–64 | 0.4 | 0.9 | 0.0 | 0.6 | 1.2 | 0.1 | 4.5 | 9.3 | 0.5 |
| 65+ | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.8 | 1.9 | 0.0 |
| Unknown Age | | | | | | | | | |
| TOTAL | 7.6 | 10.5 | 4.8 | 2.8 | 5.6 | 0.2 | 18.9 | 34.5 | 4.6 |

| Age Group | Native Hawaiians/ Other Pacific Islanders | | | Whites, Non-Hispanic | | | Multirace | | |
|--------------|--|-------------|------------|----------------------|------------|------------|------------|------------|------------|
| | Total† | Male | Female | Total† | Male | Female | Total† | Male | Female |
| 0–4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5–9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10–14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 |
| 15–19 | 5.1 | 9.9 | 0.0 | 1.3 | 1.9 | 0.7 | 1.8 | 3.2 | 0.3 |
| 20–24 | 23.1 | 44.8 | 0.0 | 7.1 | 12.5 | 1.5 | 11.0 | 21.4 | 1.2 |
| 25–29 | 12.9 | 21.0 | 4.4 | 8.6 | 15.4 | 1.6 | 13.5 | 26.9 | 1.5 |
| 30–34 | 16.3 | 31.9 | 0.0 | 7.8 | 14.3 | 1.2 | 16.2 | 32.1 | 2.2 |
| 35–39 | 5.4 | 10.6 | 0.0 | 6.6 | 12.2 | 1.0 | 15.2 | 30.8 | 1.3 |
| 40–44 | 5.7 | 11.4 | 0.0 | 5.9 | 11.3 | 0.6 | 11.0 | 23.2 | 0.0 |
| 45–54 | 3.1 | 6.1 | 0.0 | 5.3 | 10.4 | 0.3 | 6.6 | 13.4 | 0.4 |
| 55–64 | 2.2 | 0.0 | 4.2 | 1.9 | 3.8 | 0.1 | 3.5 | 6.8 | 0.6 |
| 65+ | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unknown Age | | | | | | | | | |
| TOTAL | 6.5 | 12.0 | 0.8 | 3.5 | 6.5 | 0.5 | 4.9 | 9.5 | 0.5 |

| Age Group | Hispanics | | |
|--------------|------------|-------------|------------|
| | Total† | Male | Female |
| 0–4 | 0.0 | 0.0 | 0.0 |
| 5–9 | 0.0 | 0.0 | 0.0 |
| 10–14 | 0.1 | 0.1 | 0.0 |
| 15–19 | 5.3 | 8.6 | 1.7 |
| 20–24 | 18.5 | 32.0 | 3.3 |
| 25–29 | 19.6 | 34.0 | 3.2 |
| 30–34 | 14.2 | 25.2 | 2.1 |
| 35–39 | 12.5 | 22.8 | 1.6 |
| 40–44 | 10.6 | 19.5 | 1.1 |
| 45–54 | 8.4 | 16.1 | 0.6 |
| 55–64 | 2.5 | 4.8 | 0.4 |
| 65+ | 0.5 | 1.1 | 0.1 |
| Unknown Age | | | |
| TOTAL | 7.6 | 13.9 | 1.1 |

* Includes 49 states reporting race/ethnicity data in the Office of Management and Budget compliant formats in 2014.

† Total includes cases reported with unknown sex.

NOTE: These tables should be used only for race/ethnicity comparisons. See Table 35 for age-specific cases and rates and Tables 27–29 for total and sex-specific cases and rates.

Cases in the 0–4 and 5–9 age groups may include cases due to congenital transmission.

No population data exist for unknown sex, unknown age, or unknown race; therefore rates are not calculated.

Table 37. Early Latent Syphilis — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 277 | 268 | 237 | 202 | 144 | 5.8 | 5.6 | 4.9 | 4.2 | 3.0 |
| Alaska | 5 | 3 | 8 | 8 | 25 | 0.7 | 0.4 | 1.1 | 1.1 | 3.4 |
| Arizona | 166 | 187 | 147 | 207 | 311 | 2.6 | 2.9 | 2.2 | 3.1 | 4.7 |
| Arkansas | 202 | 167 | 152 | 163 | 152 | 6.9 | 5.7 | 5.2 | 5.5 | 5.1 |
| California | 1,788 | 2,030 | 2,519 | 2,844 | 3,396 | 4.8 | 5.4 | 6.6 | 7.4 | 8.9 |
| Colorado | 129 | 154 | 194 | 195 | 164 | 2.6 | 3.0 | 3.7 | 3.7 | 3.1 |
| Connecticut | 51 | 57 | 52 | 55 | 62 | 1.4 | 1.6 | 1.4 | 1.5 | 1.7 |
| Delaware | 14 | 49 | 38 | 30 | 33 | 1.6 | 5.4 | 4.1 | 3.2 | 3.6 |
| District of Columbia | 239 | 222 | 244 | 243 | 142 | 39.7 | 35.9 | 38.6 | 37.6 | 22.0 |
| Florida | 1,294 | 1,212 | 1,384 | 1,540 | 1,886 | 6.9 | 6.4 | 7.2 | 7.9 | 9.6 |
| Georgia | 636 | 436 | 639 | 863 | 1,078 | 6.6 | 4.4 | 6.4 | 8.6 | 10.8 |
| Hawaii | 15 | 5 | 9 | 22 | 25 | 1.1 | 0.4 | 0.6 | 1.6 | 1.8 |
| Idaho | 4 | 11 | 21 | 6 | 12 | 0.3 | 0.7 | 1.3 | 0.4 | 0.7 |
| Illinois | 502 | 581 | 690 | 809 | 819 | 3.9 | 4.5 | 5.4 | 6.3 | 6.4 |
| Indiana | 103 | 95 | 148 | 157 | 129 | 1.6 | 1.5 | 2.3 | 2.4 | 2.0 |
| Iowa | 4 | 11 | 15 | 63 | 82 | 0.1 | 0.4 | 0.5 | 2.0 | 2.7 |
| Kansas | 63 | 34 | 54 | 84 | 92 | 2.2 | 1.2 | 1.9 | 2.9 | 3.2 |
| Kentucky | 88 | 109 | 139 | 167 | 169 | 2.0 | 2.5 | 3.2 | 3.8 | 3.8 |
| Louisiana | 742 | 488 | 343 | 276 | 372 | 16.4 | 10.7 | 7.5 | 6.0 | 8.0 |
| Maine | 6 | 8 | 2 | 6 | 7 | 0.5 | 0.6 | 0.2 | 0.5 | 0.5 |
| Maryland | 279 | 332 | 361 | 387 | 529 | 4.8 | 5.7 | 6.1 | 6.5 | 8.9 |
| Massachusetts | 195 | 233 | 231 | 350 | 282 | 3.0 | 3.5 | 3.5 | 5.2 | 4.2 |
| Michigan | 121 | 132 | 150 | 204 | 243 | 1.2 | 1.3 | 1.5 | 2.1 | 2.5 |
| Minnesota | 73 | 121 | 96 | 139 | 159 | 1.4 | 2.3 | 1.8 | 2.6 | 2.9 |
| Mississippi | 386 | 313 | 253 | 184 | 336 | 13.0 | 10.5 | 8.5 | 6.2 | 11.2 |
| Missouri | 133 | 124 | 135 | 220 | 240 | 2.2 | 2.1 | 2.2 | 3.6 | 4.0 |
| Montana | 2 | 1 | 0 | 2 | 1 | 0.2 | 0.1 | 0.0 | 0.2 | 0.1 |
| Nebraska | 1 | 3 | 8 | 14 | 19 | 0.1 | 0.2 | 0.4 | 0.7 | 1.0 |
| Nevada | 178 | 166 | 214 | 232 | 389 | 6.6 | 6.1 | 7.8 | 8.3 | 13.9 |
| New Hampshire | 5 | 5 | 9 | 21 | 22 | 0.4 | 0.4 | 0.7 | 1.6 | 1.7 |
| New Jersey | 386 | 452 | 410 | 539 | 612 | 4.4 | 5.1 | 4.6 | 6.1 | 6.9 |
| New Mexico | 41 | 56 | 68 | 67 | 76 | 2.0 | 2.7 | 3.3 | 3.2 | 3.6 |
| New York | 1,358 | 1,254 | 1,413 | 1,945 | 2,307 | 7.0 | 6.4 | 7.2 | 9.9 | 11.7 |
| North Carolina | 328 | 333 | 244 | 236 | 468 | 3.4 | 3.4 | 2.5 | 2.4 | 4.8 |
| North Dakota | 0 | 1 | 0 | 2 | 22 | 0.0 | 0.1 | 0.0 | 0.3 | 3.0 |
| Ohio | 189 | 160 | 171 | 211 | 265 | 1.6 | 1.4 | 1.5 | 1.8 | 2.3 |
| Oklahoma | 149 | 145 | 146 | 237 | 198 | 4.0 | 3.8 | 3.8 | 6.2 | 5.1 |
| Oregon | 33 | 63 | 94 | 127 | 149 | 0.9 | 1.6 | 2.4 | 3.2 | 3.8 |
| Pennsylvania | 355 | 412 | 484 | 581 | 641 | 2.8 | 3.2 | 3.8 | 4.5 | 5.0 |
| Rhode Island | 20 | 20 | 24 | 22 | 49 | 1.9 | 1.9 | 2.3 | 2.1 | 4.7 |
| South Carolina | 344 | 345 | 336 | 415 | 467 | 7.4 | 7.4 | 7.1 | 8.7 | 9.8 |
| South Dakota | 0 | 0 | 3 | 5 | 23 | 0.0 | 0.0 | 0.4 | 0.6 | 2.7 |
| Tennessee | 363 | 256 | 255 | 267 | 236 | 5.7 | 4.0 | 3.9 | 4.1 | 3.6 |
| Texas | 1,874 | 1,581 | 1,767 | 1,902 | 1,984 | 7.5 | 6.2 | 6.8 | 7.2 | 7.5 |
| Utah | 20 | 8 | 8 | 47 | 41 | 0.7 | 0.3 | 0.3 | 1.6 | 1.4 |
| Vermont | 0 | 1 | 6 | 2 | 7 | 0.0 | 0.2 | 1.0 | 0.3 | 1.1 |
| Virginia | 275 | 289 | 303 | 354 | 274 | 3.4 | 3.6 | 3.7 | 4.3 | 3.3 |
| Washington | 109 | 146 | 181 | 204 | 198 | 1.6 | 2.1 | 2.6 | 2.9 | 2.8 |
| West Virginia | 4 | 0 | 10 | 10 | 23 | 0.2 | 0.0 | 0.5 | 0.5 | 1.2 |
| Wisconsin | 52 | 57 | 86 | 62 | 91 | 0.9 | 1.0 | 1.5 | 1.1 | 1.6 |
| Wyoming | 3 | 0 | 2 | 1 | 1 | 0.5 | 0.0 | 0.3 | 0.2 | 0.2 |
| U.S. TOTAL | 13,604 | 13,136 | 14,503 | 16,929 | 19,452 | 4.4 | 4.2 | 4.6 | 5.4 | 6.2 |
| Northeast | 2,376 | 2,442 | 2,631 | 3,521 | 3,989 | 4.3 | 4.4 | 4.7 | 6.3 | 7.1 |
| Midwest | 1,241 | 1,319 | 1,556 | 1,970 | 2,184 | 1.9 | 2.0 | 2.3 | 2.9 | 3.2 |
| South | 7,494 | 6,545 | 6,851 | 7,476 | 8,491 | 6.5 | 5.6 | 5.8 | 6.3 | 7.2 |
| West | 2,493 | 2,830 | 3,465 | 3,962 | 4,788 | 3.5 | 3.9 | 4.7 | 5.3 | 6.4 |
| Guam | 0 | 4 | 1 | 3 | 1 | 0.0 | 2.5 | 0.6 | 1.9 | 0.6 |
| Puerto Rico | 191 | 211 | 222 | 270 | 375 | 5.1 | 5.7 | 6.1 | 7.5 | 10.4 |
| Virgin Islands | 3 | 0 | 0 | 2 | 0 | 2.8 | 0.0 | 0.0 | 1.9 | 0.0 |
| OUTLYING AREAS | 194 | 215 | 223 | 275 | 376 | 4.9 | 5.4 | 5.7 | 7.1 | 9.7 |
| TOTAL | 13,798 | 13,351 | 14,726 | 17,204 | 19,828 | 4.4 | 4.2 | 4.6 | 5.4 | 6.2 |

Table 38. Early Latent Syphilis — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)* in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|--------------|---------------|---------------|---------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 529 | 352 | 491 | 672 | 863 | 10.0 | 6.5 | 9.0 | 12.2 | 15.6 |
| Austin-Round Rock, TX | 137 | 137 | 170 | 220 | 207 | 8.0 | 7.7 | 9.3 | 11.7 | 11.0 |
| Baltimore-Columbia-Towson, MD | 148 | 198 | 206 | 216 | 296 | 5.5 | 7.3 | 7.5 | 7.8 | 10.7 |
| Birmingham-Hoover, AL | 67 | 90 | 74 | 71 | 46 | 5.9 | 7.9 | 6.5 | 6.2 | 4.0 |
| Boston-Cambridge-Newton, MA-NH | 161 | 176 | 158 | 278 | 208 | 3.5 | 3.8 | 3.4 | 5.9 | 4.4 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 0 | 7 | 11 | 15 | 19 | 0.0 | 0.6 | 1.0 | 1.3 | 1.7 |
| Charlotte-Concord-Gastonia, NC-SC | 101 | 103 | 70 | 74 | 129 | 4.6 | 4.6 | 3.0 | 3.2 | 5.5 |
| Chicago-Naperville-Elgin, IL-IN-WI | 476 | 531 | 630 | 751 | 734 | 5.0 | 5.6 | 6.6 | 7.9 | 7.7 |
| Cincinnati, OH-KY-IN | 87 | 67 | 78 | 70 | 98 | 4.1 | 3.2 | 3.7 | 3.3 | 4.6 |
| Cleveland-Elyria, OH | 20 | 25 | 13 | 14 | 31 | 1.0 | 1.2 | 0.6 | 0.7 | 1.5 |
| Columbus, OH | 42 | 37 | 49 | 71 | 82 | 2.2 | 1.9 | 2.5 | 3.6 | 4.2 |
| Dallas-Fort Worth-Arlington, TX | 647 | 500 | 604 | 550 | 644 | 10.1 | 7.6 | 9.0 | 8.1 | 9.5 |
| Denver-Aurora-Lakewood, CO | 109 | 139 | 177 | 166 | 145 | 4.3 | 5.3 | 6.7 | 6.2 | 5.4 |
| Detroit-Warren-Dearborn, MI | 76 | 82 | 113 | 152 | 163 | 1.8 | 1.9 | 2.6 | 3.5 | 3.8 |
| Hartford-West Hartford-East Hartford, CT | 18 | 18 | 9 | 19 | 16 | 1.5 | 1.5 | 0.7 | 1.6 | 1.3 |
| Houston-The Woodlands-Sugar Land, TX | 370 | 351 | 419 | 348 | 444 | 6.2 | 5.8 | 6.8 | 5.5 | 7.0 |
| Indianapolis-Carmel-Anderson, IN | 70 | 66 | 102 | 104 | 91 | 3.7 | 3.5 | 5.3 | 5.3 | 4.7 |
| Jacksonville, FL | 91 | 50 | 57 | 73 | 69 | 6.8 | 3.7 | 4.1 | 5.2 | 4.9 |
| Kansas City, MO-KS | 59 | 40 | 61 | 111 | 132 | 2.9 | 2.0 | 3.0 | 5.4 | 6.4 |
| Las Vegas-Henderson-Paradise, NV | 174 | 162 | 207 | 218 | 375 | 8.9 | 8.2 | 10.3 | 10.8 | 18.5 |
| Los Angeles-Long Beach-Anaheim, CA | 991 | 1,132 | 1,393 | 1,520 | 1,619 | 7.7 | 8.7 | 10.7 | 11.6 | 12.3 |
| Louisville/Jefferson County, KY-IN | 46 | 41 | 72 | 85 | 82 | 3.7 | 3.3 | 5.8 | 6.7 | 6.5 |
| Memphis, TN-MS-AR | 257 | 180 | 188 | 188 | 143 | 19.4 | 13.5 | 14.0 | 14.0 | 10.7 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 749 | 682 | 831 | 885 | 1,094 | 13.5 | 12.0 | 14.4 | 15.2 | 18.8 |
| Milwaukee-Waukesha-West Allis, WI | 35 | 33 | 57 | 43 | 69 | 2.2 | 2.1 | 3.6 | 2.7 | 4.4 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 68 | 112 | 91 | 131 | 155 | 2.0 | 3.3 | 2.7 | 3.8 | 4.5 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 72 | 37 | 50 | 62 | 83 | 4.3 | 2.2 | 2.9 | 3.5 | 4.7 |
| New Orleans-Metairie, LA | 195 | 109 | 90 | 81 | 122 | 16.4 | 9.0 | 7.3 | 6.5 | 9.8 |
| New York-Newark-Jersey City, NY-NJ-PA | 1,605 | 1,569 | 1,668 | 2,299 | 2,681 | 8.2 | 8.0 | 8.4 | 11.5 | 13.4 |
| Oklahoma City, OK | 76 | 65 | 79 | 124 | 107 | 6.1 | 5.1 | 6.1 | 9.4 | 8.1 |
| Orlando-Kissimmee-Sanford, FL | 138 | 142 | 136 | 175 | 180 | 6.5 | 6.5 | 6.1 | 7.7 | 7.9 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 348 | 398 | 408 | 497 | 512 | 5.8 | 6.6 | 6.8 | 8.2 | 8.5 |
| Phoenix-Mesa-Scottsdale, AZ | 126 | 153 | 120 | 150 | 240 | 3.0 | 3.6 | 2.8 | 3.4 | 5.5 |
| Pittsburgh, PA | 27 | 30 | 46 | 45 | 63 | 1.1 | 1.3 | 1.9 | 1.9 | 2.7 |
| Portland-Vancouver-Hillsboro, OR-WA | 33 | 58 | 101 | 117 | 124 | 1.5 | 2.6 | 4.4 | 5.1 | 5.4 |
| Providence-Warwick, RI-MA | 26 | 26 | 35 | 28 | 64 | 1.6 | 1.6 | 2.2 | 1.7 | 4.0 |
| Raleigh, NC | 44 | 35 | 31 | 41 | 77 | 3.9 | 3.0 | 2.6 | 3.4 | 6.3 |
| Richmond, VA | 76 | 68 | 78 | 75 | 68 | 6.3 | 5.6 | 6.3 | 6.0 | 5.5 |
| Riverside-San Bernardino-Ontario, CA | 86 | 144 | 138 | 159 | 223 | 2.0 | 3.3 | 3.2 | 3.6 | 5.1 |
| Sacramento--Roseville--Arden-Arcade, CA | 43 | 51 | 38 | 33 | 74 | 2.0 | 2.3 | 1.7 | 1.5 | 3.3 |
| Salt Lake City, UT | 12 | 7 | 7 | 37 | 31 | 1.1 | 0.6 | 0.6 | 3.2 | 2.7 |
| San Antonio-New Braunfels, TX | 305 | 252 | 269 | 381 | 308 | 14.2 | 11.5 | 12.0 | 16.7 | 13.5 |
| San Diego-Carlsbad, CA | 177 | 162 | 236 | 211 | 299 | 5.7 | 5.2 | 7.4 | 6.6 | 9.3 |
| San Francisco-Oakland-Hayward, CA | 373 | 396 | 528 | 656 | 839 | 8.6 | 9.0 | 11.9 | 14.5 | 18.6 |
| San Jose-Sunnyvale-Santa Clara, CA | 29 | 35 | 44 | 60 | 58 | 1.6 | 1.9 | 2.3 | 3.1 | 3.0 |
| Seattle-Tacoma-Bellevue, WA | 91 | 134 | 142 | 167 | 143 | 2.6 | 3.8 | 4.0 | 4.6 | 4.0 |
| St. Louis, MO-IL | 106 | 84 | 89 | 125 | 139 | 3.8 | 3.0 | 3.2 | 4.5 | 5.0 |
| Tampa-St. Petersburg-Clearwater, FL | 117 | 139 | 176 | 176 | 227 | 4.2 | 4.9 | 6.2 | 6.1 | 7.9 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 84 | 108 | 90 | 112 | 90 | 5.0 | 6.4 | 5.3 | 6.6 | 5.3 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 441 | 403 | 497 | 520 | 286 | 7.8 | 7.0 | 8.5 | 8.7 | 4.8 |
| SELECTED MSAs TOTAL | 10,158 | 9,916 | 11,427 | 13,376 | 14,992 | 6.1 | 5.9 | 6.7 | 7.7 | 8.7 |

* MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

Table 39. Late and Late Latent Syphilis* — Reported Cases and Rates of Reported Cases by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 235 | 252 | 248 | 292 | 167 | 4.9 | 5.2 | 5.1 | 6.0 | 3.5 |
| Alaska | 7 | 3 | 14 | 3 | 5 | 1.0 | 0.4 | 1.9 | 0.4 | 0.7 |
| Arizona | 493 | 431 | 424 | 455 | 558 | 7.7 | 6.6 | 6.5 | 6.9 | 8.4 |
| Arkansas | 116 | 100 | 132 | 175 | 110 | 4.0 | 3.4 | 4.5 | 5.9 | 3.7 |
| California | 2,223 | 2,269 | 2,509 | 3,539 | 4,110 | 6.0 | 6.0 | 6.6 | 9.2 | 10.7 |
| Colorado | 75 | 80 | 101 | 117 | 5 | 1.5 | 1.6 | 1.9 | 2.2 | 0.1 |
| Connecticut | 83 | 67 | 14 | 22 | 21 | 2.3 | 1.9 | 0.4 | 0.6 | 0.6 |
| Delaware | 19 | 48 | 29 | 63 | 30 | 2.1 | 5.3 | 3.2 | 6.8 | 3.2 |
| District of Columbia | 121 | 164 | 180 | 196 | 23 | 20.1 | 26.5 | 28.5 | 30.3 | 3.6 |
| Florida | 1,572 | 1,641 | 1,693 | 1,934 | 2,429 | 8.4 | 8.6 | 8.8 | 9.9 | 12.4 |
| Georgia | 898 | 771 | 842 | 1,090 | 1,055 | 9.3 | 7.9 | 8.5 | 10.9 | 10.6 |
| Hawaii | 23 | 13 | 11 | 19 | 13 | 1.7 | 0.9 | 0.8 | 1.4 | 0.9 |
| Idaho | 9 | 18 | 6 | 21 | 22 | 0.6 | 1.1 | 0.4 | 1.3 | 1.4 |
| Illinois | 799 | 946 | 902 | 1,031 | 1,087 | 6.2 | 7.4 | 7.0 | 8.0 | 8.4 |
| Indiana | 134 | 200 | 159 | 171 | 170 | 2.1 | 3.1 | 2.4 | 2.6 | 2.6 |
| Iowa | 45 | 39 | 58 | 57 | 84 | 1.5 | 1.3 | 1.9 | 1.8 | 2.7 |
| Kansas | 28 | 18 | 51 | 61 | 48 | 1.0 | 0.6 | 1.8 | 2.1 | 1.7 |
| Kentucky | 84 | 95 | 99 | 102 | 117 | 1.9 | 2.2 | 2.3 | 2.3 | 2.7 |
| Louisiana | 1,163 | 1,090 | 1,065 | 1,267 | 1,180 | 25.7 | 23.8 | 23.1 | 27.4 | 25.5 |
| Maine | 3 | 4 | 3 | 5 | 0 | 0.2 | 0.3 | 0.2 | 0.4 | 0.0 |
| Maryland | 386 | 470 | 439 | 504 | 481 | 6.7 | 8.1 | 7.5 | 8.5 | 8.1 |
| Massachusetts | 158 | 271 | 258 | 276 | 227 | 2.4 | 4.1 | 3.9 | 4.1 | 3.4 |
| Michigan | 322 | 338 | 334 | 368 | 416 | 3.3 | 3.4 | 3.4 | 3.7 | 4.2 |
| Minnesota | 128 | 107 | 120 | 209 | 215 | 2.4 | 2.0 | 2.2 | 3.9 | 4.0 |
| Mississippi | 200 | 238 | 53 | 31 | 116 | 6.7 | 8.0 | 1.8 | 1.0 | 3.9 |
| Missouri | 225 | 153 | 133 | 135 | 178 | 3.8 | 2.5 | 2.2 | 2.2 | 2.9 |
| Montana | 0 | 1 | 1 | 1 | 0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 |
| Nebraska | 20 | 23 | 18 | 40 | 26 | 1.1 | 1.2 | 1.0 | 2.1 | 1.4 |
| Nevada | 99 | 125 | 117 | 84 | 142 | 3.7 | 4.6 | 4.2 | 3.0 | 5.1 |
| New Hampshire | 16 | 10 | 19 | 30 | 21 | 1.2 | 0.8 | 1.4 | 2.3 | 1.6 |
| New Jersey | 314 | 282 | 243 | 196 | 263 | 3.6 | 3.2 | 2.7 | 2.2 | 3.0 |
| New Mexico | 57 | 85 | 64 | 100 | 80 | 2.8 | 4.1 | 3.1 | 4.8 | 3.8 |
| New York | 2,387 | 2,436 | 2,667 | 2,758 | 3,073 | 12.3 | 12.5 | 13.6 | 14.0 | 15.6 |
| North Carolina | 499 | 485 | 444 | 509 | 791 | 5.2 | 5.0 | 4.6 | 5.2 | 8.0 |
| North Dakota | 3 | 3 | 10 | 11 | 16 | 0.4 | 0.4 | 1.4 | 1.5 | 2.2 |
| Ohio | 349 | 341 | 526 | 431 | 381 | 3.0 | 3.0 | 4.6 | 3.7 | 3.3 |
| Oklahoma | 31 | 39 | 27 | 28 | 59 | 0.8 | 1.0 | 0.7 | 0.7 | 1.5 |
| Oregon | 69 | 92 | 117 | 133 | 159 | 1.8 | 2.4 | 3.0 | 3.4 | 4.0 |
| Pennsylvania | 280 | 335 | 365 | 431 | 346 | 2.2 | 2.6 | 2.9 | 3.4 | 2.7 |
| Rhode Island | 18 | 18 | 25 | 27 | 40 | 1.7 | 1.7 | 2.4 | 2.6 | 3.8 |
| South Carolina | 80 | 73 | 56 | 66 | 28 | 1.7 | 1.6 | 1.2 | 1.4 | 0.6 |
| South Dakota | 8 | 14 | 8 | 12 | 16 | 1.0 | 1.7 | 1.0 | 1.4 | 1.9 |
| Tennessee | 542 | 483 | 545 | 497 | 502 | 8.5 | 7.5 | 8.4 | 7.7 | 7.7 |
| Texas | 3,204 | 3,312 | 3,585 | 3,593 | 4,110 | 12.7 | 12.9 | 13.8 | 13.6 | 15.5 |
| Utah | 47 | 42 | 51 | 51 | 61 | 1.7 | 1.5 | 1.8 | 1.8 | 2.1 |
| Vermont | 0 | 0 | 0 | 5 | 0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 |
| Virginia | 245 | 224 | 317 | 329 | 137 | 3.1 | 2.8 | 3.9 | 4.0 | 1.7 |
| Washington | 159 | 236 | 226 | 223 | 310 | 2.4 | 3.5 | 3.3 | 3.2 | 4.4 |
| West Virginia | 16 | 5 | 6 | 14 | 4 | 0.9 | 0.3 | 0.3 | 0.8 | 0.2 |
| Wisconsin | 84 | 80 | 91 | 100 | 108 | 1.5 | 1.4 | 1.6 | 1.7 | 1.9 |
| Wyoming | 3 | 6 | 6 | 7 | 1 | 0.5 | 1.1 | 1.0 | 1.2 | 0.2 |
| U.S. TOTAL | 18,079 | 18,576 | 19,411 | 21,819 | 23,541 | 5.9 | 6.0 | 6.2 | 6.9 | 7.4 |
| Northeast | 3,259 | 3,423 | 3,594 | 3,750 | 3,991 | 5.9 | 6.2 | 6.4 | 6.7 | 7.1 |
| Midwest | 2,145 | 2,262 | 2,410 | 2,626 | 2,745 | 3.2 | 3.4 | 3.6 | 3.9 | 4.1 |
| South | 9,411 | 9,490 | 9,760 | 10,690 | 11,339 | 8.2 | 8.2 | 8.3 | 9.0 | 9.6 |
| West | 3,264 | 3,401 | 3,647 | 4,753 | 5,466 | 4.5 | 4.7 | 5.0 | 6.4 | 7.4 |
| Guam | 10 | 17 | 20 | 14 | 5 | 6.3 | 10.7 | 12.5 | 8.7 | 3.1 |
| Puerto Rico | 302 | 204 | 175 | 154 | 101 | 8.1 | 5.5 | 4.8 | 4.3 | 2.8 |
| Virgin Islands | 1 | 7 | 2 | 5 | 4 | 0.9 | 6.6 | 1.9 | 4.8 | 3.8 |
| OUTLYING AREAS | 313 | 228 | 197 | 173 | 110 | 7.8 | 5.7 | 5.0 | 4.5 | 2.8 |
| TOTAL | 18,392 | 18,804 | 19,608 | 21,992 | 23,651 | 5.9 | 6.0 | 6.2 | 6.9 | 7.4 |

* Late and late latent syphilis includes late latent syphilis, latent syphilis of unknown duration, neurosyphilis, late syphilis with clinical manifestations other than neurosyphilis, and late syphilis with clinical manifestations (including late benign syphilis and cardiovascular syphilis).

Table 40. Late and Late Latent Syphilis* — Reported Cases and Rates of Reported Cases in Selected Metropolitan Statistical Areas (MSAs)[†] in Alphabetical Order, United States, 2010–2014

| MSAs | Cases | | | | | Rates per 100,000 Population | | | | |
|--|---------------|---------------|---------------|---------------|---------------|------------------------------|------------|------------|------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Atlanta-Sandy Springs-Roswell, GA | 723 | 611 | 573 | 782 | 804 | 13.7 | 11.4 | 10.5 | 14.2 | 14.6 |
| Austin-Round Rock, TX | 118 | 168 | 154 | 134 | 246 | 6.9 | 9.4 | 8.4 | 7.1 | 13.1 |
| Baltimore-Columbia-Towson, MD | 162 | 196 | 203 | 218 | 225 | 6.0 | 7.2 | 7.4 | 7.9 | 8.1 |
| Birmingham-Hoover, AL | 84 | 95 | 79 | 96 | 53 | 7.4 | 8.4 | 7.0 | 8.4 | 4.6 |
| Boston-Cambridge-Newton, MA-NH | 142 | 240 | 207 | 211 | 158 | 3.1 | 5.2 | 4.5 | 4.5 | 3.4 |
| Buffalo-Cheektowaga-Niagara Falls, NY | 32 | 27 | 32 | 62 | 62 | 2.8 | 2.4 | 2.8 | 5.5 | 5.5 |
| Charlotte-Concord-Gastonia, NC-SC | 97 | 116 | 122 | 151 | 180 | 4.4 | 5.1 | 5.3 | 6.5 | 7.7 |
| Chicago-Naperville-Elgin, IL-IN-WI | 703 | 866 | 853 | 963 | 988 | 7.4 | 9.1 | 9.0 | 10.1 | 10.4 |
| Cincinnati, OH-KY-IN | 117 | 131 | 275 | 191 | 124 | 5.5 | 6.2 | 12.9 | 8.9 | 5.8 |
| Cleveland-Elyria, OH | 79 | 70 | 82 | 64 | 88 | 3.8 | 3.4 | 4.0 | 3.1 | 4.3 |
| Columbus, OH | 82 | 76 | 101 | 98 | 101 | 4.3 | 3.9 | 5.2 | 5.0 | 5.1 |
| Dallas-Fort Worth-Arlington, TX | 944 | 982 | 1,132 | 1,081 | 1,065 | 14.7 | 14.9 | 16.9 | 15.9 | 15.6 |
| Denver-Aurora-Lakewood, CO | 64 | 64 | 74 | 81 | 0 | 2.5 | 2.5 | 2.8 | 3.0 | 0.0 |
| Detroit-Warren-Dearborn, MI | 232 | 229 | 252 | 277 | 299 | 5.4 | 5.3 | 5.9 | 6.4 | 7.0 |
| Hartford-West Hartford-East Hartford, CT | 34 | 22 | 3 | 10 | 10 | 2.8 | 1.8 | 0.2 | 0.8 | 0.8 |
| Houston-The Woodlands-Sugar Land, TX | 1,149 | 1,166 | 1,265 | 1,154 | 1,430 | 19.4 | 19.2 | 20.5 | 18.3 | 22.7 |
| Indianapolis-Carmel-Anderson, IN | 57 | 113 | 84 | 90 | 83 | 3.0 | 5.9 | 4.4 | 4.6 | 4.2 |
| Jacksonville, FL | 87 | 89 | 73 | 75 | 128 | 6.5 | 6.5 | 5.3 | 5.4 | 9.2 |
| Kansas City, MO-KS | 43 | 44 | 38 | 54 | 54 | 2.1 | 2.2 | 1.9 | 2.6 | 2.6 |
| Las Vegas-Henderson-Paradise, NV | 85 | 111 | 98 | 54 | 133 | 4.4 | 5.6 | 4.9 | 2.7 | 6.6 |
| Los Angeles-Long Beach-Anaheim, CA | 1,238 | 1,222 | 1,091 | 1,705 | 1,678 | 9.7 | 9.4 | 8.4 | 13.0 | 12.8 |
| Louisville/Jefferson County, KY-IN | 46 | 51 | 48 | 52 | 70 | 3.7 | 4.1 | 3.8 | 4.1 | 5.5 |
| Memphis, TN-MS-AR | 326 | 279 | 291 | 283 | 236 | 24.6 | 20.9 | 21.7 | 21.1 | 17.6 |
| Miami-Fort Lauderdale-West Palm Beach, FL | 853 | 984 | 1,032 | 1,075 | 1,370 | 15.3 | 17.4 | 17.9 | 18.4 | 23.5 |
| Milwaukee-Waukesha-West Allis, WI | 57 | 49 | 59 | 56 | 63 | 3.7 | 3.1 | 3.8 | 3.6 | 4.0 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 101 | 87 | 105 | 175 | 187 | 3.0 | 2.6 | 3.1 | 5.1 | 5.4 |
| Nashville-Davidson--Murfreesboro--Franklin, TN | 119 | 107 | 133 | 120 | 148 | 7.1 | 6.3 | 7.7 | 6.8 | 8.4 |
| New Orleans-Metairie, LA | 392 | 457 | 386 | 442 | 370 | 32.9 | 37.7 | 31.5 | 35.6 | 29.8 |
| New York-Newark-Jersey City, NY-NJ-PA | 2,526 | 2,550 | 2,679 | 2,707 | 3,052 | 12.9 | 13.0 | 13.5 | 13.6 | 15.3 |
| Oklahoma City, OK | 17 | 10 | 15 | 11 | 31 | 1.4 | 0.8 | 1.2 | 0.8 | 2.3 |
| Orlando-Kissimmee-Sanford, FL | 149 | 166 | 192 | 250 | 362 | 7.0 | 7.6 | 8.6 | 11.0 | 16.0 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 271 | 325 | 338 | 439 | 311 | 4.5 | 5.4 | 5.6 | 7.3 | 5.2 |
| Phoenix-Mesa-Scottsdale, AZ | 345 | 299 | 332 | 335 | 397 | 8.2 | 7.0 | 7.7 | 7.6 | 9.0 |
| Pittsburgh, PA | 9 | 13 | 21 | 11 | 13 | 0.4 | 0.6 | 0.9 | 0.5 | 0.6 |
| Portland-Vancouver-Hillsboro, OR-WA | 54 | 72 | 99 | 118 | 140 | 2.4 | 3.2 | 4.3 | 5.1 | 6.0 |
| Providence-Warwick, RI-MA | 22 | 30 | 32 | 45 | 47 | 1.4 | 1.9 | 2.0 | 2.8 | 2.9 |
| Raleigh, NC | 65 | 68 | 63 | 68 | 109 | 5.7 | 5.8 | 5.3 | 5.6 | 9.0 |
| Richmond, VA | 46 | 36 | 51 | 58 | 9 | 3.8 | 3.0 | 4.1 | 4.7 | 0.7 |
| Riverside-San Bernardino-Ontario, CA | 185 | 201 | 465 | 433 | 432 | 4.4 | 4.7 | 10.7 | 9.9 | 9.9 |
| Sacramento--Roseville--Arden-Arcade, CA | 81 | 69 | 59 | 107 | 134 | 3.8 | 3.2 | 2.7 | 4.8 | 6.0 |
| Salt Lake City, UT | 28 | 32 | 33 | 34 | 39 | 2.6 | 2.9 | 2.9 | 3.0 | 3.4 |
| San Antonio-New Braunfels, TX | 232 | 286 | 366 | 457 | 448 | 10.8 | 13.0 | 16.4 | 20.1 | 19.7 |
| San Diego-Carlsbad, CA | 148 | 154 | 144 | 245 | 310 | 4.8 | 4.9 | 4.5 | 7.6 | 9.7 |
| San Francisco-Oakland-Hayward, CA | 230 | 244 | 321 | 421 | 497 | 5.3 | 5.6 | 7.2 | 9.3 | 11.0 |
| San Jose-Sunnyvale-Santa Clara, CA | 62 | 54 | 84 | 69 | 125 | 3.4 | 2.9 | 4.4 | 3.6 | 6.5 |
| Seattle-Tacoma-Bellevue, WA | 112 | 177 | 169 | 161 | 211 | 3.3 | 5.1 | 4.8 | 4.5 | 5.8 |
| St. Louis, MO-IL | 177 | 94 | 95 | 104 | 119 | 6.3 | 3.4 | 3.4 | 3.7 | 4.2 |
| Tampa-St. Petersburg-Clearwater, FL | 195 | 175 | 171 | 227 | 254 | 7.0 | 6.2 | 6.0 | 7.9 | 8.8 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 60 | 40 | 100 | 86 | 45 | 3.6 | 2.4 | 5.9 | 5.0 | 2.6 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 425 | 536 | 517 | 599 | 295 | 7.5 | 9.3 | 8.8 | 10.1 | 5.0 |
| SELECTED MSAs TOTAL | 13,605 | 14,283 | 15,191 | 16,739 | 17,733 | 8.1 | 8.4 | 8.9 | 9.7 | 10.3 |

* Late and late latent syphilis includes late latent syphilis, latent syphilis of unknown duration, neurosyphilis, late syphilis with clinical manifestations other than neurosyphilis, and late syphilis with clinical manifestations (including late benign syphilis and cardiovascular syphilis).

[†] MSAs were selected on the basis of the largest population in the 2010 U.S. Census.

Table 41. Congenital Syphilis — Reported Cases and Rates of Reported Cases by State, Ranked by Rates, United States, 2014

| Rank* | State† | Cases | Rate per 100,000 Live Births |
|-------|-----------------------|------------|------------------------------|
| 1 | Louisiana | 46 | 73.4 |
| 2 | South Dakota | 3 | 24.8 |
| 3 | Florida | 47 | 22.1 |
| 4 | Maryland | 16 | 22.0 |
| 5 | California | 99 | 19.7 |
| 6 | Texas | 74 | 19.3 |
| 7 | Nevada | 6 | 17.2 |
| 8 | Illinois | 27 | 17.0 |
| 9 | Arkansas | 6 | 15.6 |
| 10 | Arizona | 13 | 15.0 |
| 11 | Michigan | 15 | 13.3 |
| 12 | Georgia | 17 | 13.0 |
| | U.S. TOTAL‡ | 458 | 11.6 |
| 13 | Oklahoma | 6 | 11.4 |
| 14 | Ohio | 15 | 10.8 |
| 15 | Indiana | 8 | 9.6 |
| 16 | New York | 22 | 9.1 |
| | HP 2020 TARGET | | 9.1 |
| 17 | South Carolina | 5 | 8.7 |
| 18 | Kentucky | 3 | 5.4 |
| 19 | Alabama | 3 | 5.1 |
| 20 | North Carolina | 6 | 5.0 |
| 21 | Oregon | 2 | 4.4 |
| 22 | Massachusetts | 3 | 4.1 |
| 23 | Nebraska | 1 | 3.9 |
| 24 | New Mexico | 1 | 3.7 |
| 25 | Pennsylvania | 5 | 3.5 |
| 26 | Mississippi | 1 | 2.6 |
| 27 | Iowa | 1 | 2.6 |
| 28 | Tennessee | 2 | 2.5 |
| 29 | Washington | 2 | 2.3 |
| 30 | Virginia | 2 | 1.9 |
| 31 | Missouri | 1 | 1.3 |
| | Alaska | 0 | 0.0 |
| | Colorado | 0 | 0.0 |
| | Connecticut | 0 | 0.0 |
| | Delaware | 0 | 0.0 |
| | Hawaii | 0 | 0.0 |
| | Idaho | 0 | 0.0 |
| | Kansas | 0 | 0.0 |
| | Maine | 0 | 0.0 |
| | Minnesota | 0 | 0.0 |
| | Montana | 0 | 0.0 |
| | New Hampshire | 0 | 0.0 |
| | New Jersey | 0 | 0.0 |
| | North Dakota | 0 | 0.0 |
| | Rhode Island | 0 | 0.0 |
| | Utah | 0 | 0.0 |
| | Vermont | 0 | 0.0 |
| | West Virginia | 0 | 0.0 |
| | Wisconsin | 0 | 0.0 |
| | Wyoming | 0 | 0.0 |

* States were ranked by rate, then by case count, then in alphabetical order, with rates shown rounded to the nearest tenth.

† Mother's state of residence was used to assign case.

‡ Total includes cases reported by the District of Columbia, with 0 cases, but excludes outlying areas (Guam with 0 cases, Puerto Rico with 0 cases, and Virgin Islands with 0 cases).

Table 42. Congenital Syphilis — Reported Cases and Rates of Reported Cases by Year of Birth, by State/Area and Region in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area* | Cases | | | | | Rates per 100,000 Live Births | | | | |
|-----------------------|------------|------------|------------|------------|------------|-------------------------------|------------|------------|------------|-------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 9 | 10 | 4 | 2 | 3 | 15.0 | 16.8 | 6.8 | 3.4 | 5.1 |
| Alaska | 0 | 0 | 1 | 1 | 0 | 0.0 | 0.0 | 8.9 | 8.9 | 0.0 |
| Arizona | 16 | 15 | 14 | 13 | 13 | 18.3 | 17.5 | 16.2 | 15.0 | 15.0 |
| Arkansas | 11 | 15 | 11 | 12 | 6 | 28.5 | 38.7 | 28.7 | 31.3 | 15.6 |
| California | 39 | 40 | 35 | 57 | 99 | 7.6 | 8.0 | 6.9 | 11.3 | 19.7 |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Connecticut | 2 | 0 | 0 | 0 | 0 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delaware | 2 | 0 | 1 | 1 | 0 | 17.6 | 0.0 | 9.1 | 9.1 | 0.0 |
| District of Columbia | 1 | 1 | 0 | 2 | 0 | 10.9 | 10.8 | 0.0 | 21.3 | 0.0 |
| Florida | 20 | 33 | 37 | 35 | 47 | 9.3 | 15.5 | 17.4 | 16.4 | 22.1 |
| Georgia | 18 | 10 | 16 | 20 | 17 | 13.4 | 7.6 | 12.3 | 15.4 | 13.0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Idaho | 1 | 0 | 1 | 0 | 0 | 4.3 | 0.0 | 4.4 | 0.0 | 0.0 |
| Illinois | 27 | 18 | 28 | 23 | 27 | 16.3 | 11.2 | 17.6 | 14.5 | 17.0 |
| Indiana | 0 | 0 | 0 | 0 | 8 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 |
| Iowa | 0 | 0 | 0 | 0 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kentucky | 0 | 2 | 2 | 4 | 3 | 0.0 | 3.6 | 3.6 | 7.2 | 5.4 |
| Louisiana | 33 | 18 | 33 | 40 | 46 | 52.9 | 29.1 | 52.7 | 63.9 | 73.4 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Maryland | 22 | 24 | 12 | 14 | 16 | 29.8 | 32.8 | 16.5 | 19.2 | 22.0 |
| Massachusetts | 1 | 0 | 1 | 4 | 3 | 1.4 | 0.0 | 1.4 | 5.5 | 4.1 |
| Michigan | 5 | 8 | 7 | 9 | 15 | 4.4 | 7.0 | 6.2 | 8.0 | 13.3 |
| Minnesota | 0 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| Mississippi | 9 | 6 | 0 | 0 | 1 | 22.5 | 15.1 | 0.0 | 0.0 | 2.6 |
| Missouri | 2 | 1 | 1 | 3 | 1 | 2.6 | 1.3 | 1.3 | 4.0 | 1.3 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nebraska | 0 | 0 | 1 | 0 | 1 | 0.0 | 0.0 | 3.9 | 0.0 | 3.9 |
| Nevada | 5 | 3 | 1 | 2 | 6 | 13.9 | 8.5 | 2.9 | 5.7 | 17.2 |
| New Hampshire | 0 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 8.1 | 0.0 | 0.0 |
| New Jersey | 3 | 5 | 1 | 0 | 0 | 2.8 | 4.7 | 1.0 | 0.0 | 0.0 |
| New Mexico | 0 | 0 | 1 | 2 | 1 | 0.0 | 0.0 | 3.7 | 7.4 | 3.7 |
| New York | 17 | 13 | 8 | 11 | 22 | 7.0 | 5.4 | 3.3 | 4.6 | 9.1 |
| North Carolina | 10 | 6 | 2 | 4 | 6 | 8.2 | 5.0 | 1.7 | 3.3 | 5.0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ohio | 10 | 13 | 19 | 18 | 15 | 7.2 | 9.4 | 13.7 | 13.0 | 10.8 |
| Oklahoma | 0 | 2 | 0 | 0 | 6 | 0.0 | 3.8 | 0.0 | 0.0 | 11.4 |
| Oregon | 0 | 0 | 1 | 0 | 2 | 0.0 | 0.0 | 2.2 | 0.0 | 4.4 |
| Pennsylvania | 3 | 5 | 6 | 2 | 5 | 2.1 | 3.5 | 4.2 | 1.4 | 3.5 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Carolina | 1 | 0 | 7 | 1 | 5 | 1.7 | 0.0 | 12.2 | 1.7 | 8.7 |
| South Dakota | 0 | 0 | 0 | 0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 24.8 |
| Tennessee | 11 | 8 | 2 | 2 | 2 | 13.8 | 10.1 | 2.5 | 2.5 | 2.5 |
| Texas | 105 | 99 | 78 | 74 | 74 | 27.2 | 26.2 | 20.4 | 19.3 | 19.3 |
| Utah | 1 | 0 | 0 | 0 | 0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Virginia | 1 | 0 | 1 | 3 | 2 | 1.0 | 0.0 | 1.0 | 2.9 | 1.9 |
| Washington | 1 | 2 | 0 | 0 | 2 | 1.2 | 2.3 | 0.0 | 0.0 | 2.3 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wisconsin | 1 | 1 | 0 | 0 | 0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| U.S. TOTAL | 387 | 358 | 334 | 359 | 458 | 9.7 | 9.1 | 8.4 | 9.1 | 11.6 |
| Northeast | 26 | 23 | 17 | 17 | 30 | 4.0 | 3.6 | 2.7 | 2.7 | 4.7 |
| Midwest | 45 | 41 | 57 | 53 | 71 | 5.3 | 4.9 | 6.8 | 6.4 | 8.5 |
| South | 253 | 234 | 206 | 214 | 234 | 16.6 | 15.5 | 13.7 | 14.2 | 15.5 |
| West | 63 | 60 | 54 | 75 | 123 | 6.4 | 6.2 | 5.5 | 7.7 | 12.6 |
| Guam | 0 | 0 | 0 | 1 | 0 | 0.0 | 0.0 | 0.0 | 27.9 | 0.0 |
| Puerto Rico | 2 | 2 | 1 | 2 | 0 | 4.7 | 4.9 | 2.6 | 5.1 | 0.0 |
| Virgin Islands | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OUTLYING AREAS | 2 | 2 | 1 | 3 | 0 | 4.2 | 4.4 | 2.3 | 6.8 | 0.0 |
| TOTAL | 389 | 360 | 335 | 362 | 458 | 9.6 | 9.0 | 8.4 | 9.1 | 11.5 |

* Mother's state of residence was used to assign case.

Table 43. Congenital Syphilis — Reported Cases and Rates of Reported Cases per 100,000 Live Births by Year of Birth and Race/Ethnicity of Mother, United States, 2010–2014

| Year of Birth | Whites, Non-Hispanic | | Blacks, Non-Hispanic | | Hispanics | |
|---------------|----------------------|------|----------------------|------|-----------|------|
| | Cases | Rate | Cases | Rate | Cases | Rate |
| 2010 | 63 | 2.9 | 216 | 36.3 | 91 | 9.6 |
| 2011 | 50 | 2.3 | 211 | 35.9 | 73 | 8.0 |
| 2012 | 50 | 2.3 | 189 | 32.1 | 80 | 8.8 |
| 2013 | 61 | 2.8 | 185 | 31.4 | 92 | 10.1 |
| 2014 | 80 | 3.7 | 225 | 38.2 | 110 | 12.1 |

| Year of Birth | Asians/Pacific Islanders | | American Indians/Alaska Natives | | Multirace | |
|---------------|--------------------------|------|---------------------------------|------|-----------|------|
| | Cases | Rate | Cases | Rate | Cases | Rate |
| 2010 | 9 | 3.8 | 1 | 2.5 | 2 | NA |
| 2011 | 14 | 5.7 | 2 | 5.0 | 0 | NA |
| 2012 | 6 | 2.3 | 2 | 5.1 | 0 | NA |
| 2013 | 9 | 3.4 | 5 | 12.7 | 1 | NA |
| 2014 | 18 | 6.9 | 5 | 12.7 | 7 | NA |

| Year of Birth | Other | | Unknown | | Total | |
|---------------|-------|------|---------|------|-------|------|
| | Cases | Rate | Cases | Rate | Cases | Rate |
| 2010 | 1 | NA | 4 | NA | 387 | 9.7 |
| 2011 | 3 | NA | 5 | NA | 358 | 9.1 |
| 2012 | 3 | NA | 4 | NA | 334 | 8.4 |
| 2013 | 2 | NA | 4 | NA | 359 | 9.1 |
| 2014 | 2 | NA | 11 | NA | 458 | 11.6 |

NA = Not applicable.

Table 44. Chancroid — Reported Cases and Rates of Reported Cases by State/Area in Alphabetical Order, United States and Outlying Areas, 2010–2014

| State/Area | Cases | | | | | Rates per 100,000 Population | | | | |
|-----------------------|-----------|----------|-----------|-----------|----------|------------------------------|------------|------------|------------|------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2010 | 2011 | 2012 | 2013 | 2014 |
| Alabama | 1 | 0 | 1 | 1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arizona | 0 | 1 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| California | 5 | 1 | 7 | 6 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Colorado | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Connecticut | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Florida | 1 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Georgia | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Illinois | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indiana | 0 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Iowa | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kentucky | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Maryland | 0 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Massachusetts | 1 | 2 | 1 | 2 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Michigan | 0 | 1 | 2 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Minnesota | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Jersey | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New York | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Carolina | 1 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ohio | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oklahoma | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oregon | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rhode Island | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Carolina | 1 | 2 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tennessee | 1 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Texas | 12 | 1 | 0 | 1 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Utah | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Virginia | 0 | 0 | 1 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Washington | 1 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wisconsin | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| U.S. TOTAL | 24 | 8 | 15 | 10 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Guam | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Puerto Rico | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Virgin Islands | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| OUTLYING AREAS | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 24 | 8 | 15 | 10 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 45. Selected STDs and Complications — Initial Visits to Physicians' Offices, National Disease and Therapeutic Index, United States, 1966–2013

| Year | Genital Herpes | Genital Warts | Vaginal Trichomoniasis* | Other Vaginitis* | Pelvic Inflammatory Disease† |
|------|----------------|---------------|-------------------------|------------------|------------------------------|
| 1966 | 19,000 | 56,000 | 579,000 | 1,155,000 | NA |
| 1967 | 15,000 | 72,000 | 515,000 | 1,277,000 | NA |
| 1968 | 16,000 | 87,000 | 463,000 | 1,460,000 | NA |
| 1969 | 15,000 | 61,000 | 421,000 | 1,390,000 | NA |
| 1970 | 17,000 | 119,000 | 529,000 | 1,500,000 | NA |
| 1971 | 49,000 | 128,000 | 484,000 | 1,281,000 | NA |
| 1972 | 26,000 | 165,000 | 574,000 | 1,810,000 | NA |
| 1973 | 51,000 | 198,000 | 466,000 | 1,858,000 | NA |
| 1974 | 75,000 | 202,000 | 427,000 | 1,907,000 | NA |
| 1975 | 36,000 | 181,000 | 500,000 | 1,919,000 | NA |
| 1976 | 57,000 | 217,000 | 473,000 | 1,690,000 | NA |
| 1977 | 116,000 | 221,000 | 324,000 | 1,713,000 | NA |
| 1978 | 76,000 | 269,000 | 329,000 | 2,149,000 | NA |
| 1979 | 83,000 | 200,000 | 363,000 | 1,662,000 | NA |
| 1980 | 57,000 | 218,000 | 358,000 | 1,670,000 | 423,000 |
| 1981 | 133,000 | 191,000 | 369,000 | 1,742,000 | 283,000 |
| 1982 | 134,000 | 256,000 | 268,000 | 1,859,000 | 374,000 |
| 1983 | 106,000 | 203,000 | 424,000 | 1,932,000 | 424,000 |
| 1984 | 157,000 | 224,000 | 381,000 | 2,450,000 | 381,000 |
| 1985 | 124,000 | 263,000 | 291,000 | 2,728,000 | 425,000 |
| 1986 | 136,000 | 275,000 | 338,000 | 3,118,000 | 457,000 |
| 1987 | 102,000 | 351,000 | 293,000 | 3,087,000 | 403,000 |
| 1988 | 163,000 | 290,000 | 191,000 | 3,583,000 | 431,000 |
| 1989 | 148,000 | 220,000 | 165,000 | 3,374,000 | 413,000 |
| 1990 | 172,000 | 275,000 | 213,000 | 4,474,000 | 358,000 |
| 1991 | 235,000 | 282,000 | 198,000 | 3,822,000 | 377,000 |
| 1992 | 139,000 | 218,000 | 182,000 | 3,428,000 | 335,000 |
| 1993 | 172,000 | 167,000 | 207,000 | 3,755,000 | 407,000 |
| 1994 | 142,000 | 239,000 | 199,000 | 4,123,000 | 332,000 |
| 1995 | 160,000 | 253,000 | 141,000 | 3,927,000 | 262,000 |
| 1996 | 208,000 | 191,000 | 245,000 | 3,472,000 | 286,000 |
| 1997 | 176,000 | 145,000 | 176,000 | 3,100,000 | 260,000 |
| 1998 | 188,000 | 211,000 | 164,000 | 3,200,000 | 233,000 |
| 1999 | 224,000 | 240,000 | 171,000 | 3,077,000 | 250,000 |
| 2000 | 179,000 | 220,000 | 222,000 | 3,470,000 | 254,000 |
| 2001 | 157,000 | 233,000 | 210,000 | 3,365,000 | 244,000 |
| 2002 | 216,000 | 266,000 | 150,000 | 3,315,000 | 197,000 |
| 2003 | 203,000 | 264,000 | 179,000 | 3,516,000 | 123,000 |
| 2004 | 269,000 | 316,000 | 221,000 | 3,602,000 | 132,000 |
| 2005 | 266,000 | 357,000 | 165,000 | 4,071,000 | 176,000 |
| 2006 | 371,000 | 422,000 | 200,000 | 3,891,000 | 106,000 |
| 2007 | 317,000 | 312,000 | 205,000 | 3,723,000 | 146,000 |
| 2008 | 292,000 | 385,000 | 204,000 | 3,571,000 | 104,000 |
| 2009 | 306,000 | 357,000 | 216,000 | 3,063,000 | 100,000 |
| 2010 | 232,000 | 376,000 | 149,000 | 3,192,000 | 113,000 |
| 2011 | 227,000 | 453,000 | 168,000 | 3,102,000 | 90,000 |
| 2012 | 228,000 | 353,000 | 219,000 | 3,452,000 | 106,000 |
| 2013 | 306,000 | 404,000 | 225,000 | 3,278,000 | 88,000 |

* Women only.

† Women aged 15–44 years only.

NA = Not available.

NOTE: Standard errors for estimates under 100,000 are not available. The relative standard errors for estimates 100,000–299,999 are from 19% to 23%; 300,000–599,999 are from 16% to 19%; 600,000–999,999 are from 13% to 16%; and 1,000,000–5,000,000 are from 7% to 13%.

SOURCE: National Disease and Therapeutic Index, IMS Health, Integrated Promotional Services. IMS Health Report, 1966–2013. The 2014 data were not obtained in time to include them in this report. See Section A2.5 in the Appendix for more information.

APPENDIX

APPENDIX

A. Interpreting STD Surveillance Data

Sexually Transmitted Disease Surveillance 2014 presents surveillance information derived from the official statistics for the reported occurrence of nationally notifiable sexually transmitted diseases (STDs) in the United States, test positivity and prevalence data from numerous prevalence monitoring initiatives, sentinel surveillance, and national health care services surveys.

A1. Nationally Notifiable STD Surveillance

Nationally notifiable STD surveillance data are collected and compiled from reports sent by the STD control programs and health departments in all 50 states, the District of Columbia, selected cities, U.S. dependencies and possessions, and independent nations in free association with the United States to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention (CDC). Included among the dependencies, possessions, and independent nations are Guam, Puerto Rico, and the Virgin Islands. These entities are identified as “outlying areas” of the United States in selected figures and tables.

A1.1 Reporting Formats

STD morbidity data presented in this report are compiled from a combination of data reported on standardized hard copy reporting forms and electronic data received through the National Electronic Telecommunications System for Surveillance (NETSS).

Summary Report Forms

The following hard copy forms were used to report national STD morbidity data:

1. FORM CDC 73.998: *Monthly Surveillance Report of Early Syphilis*. This monthly hard copy reporting form was used during 1984–2002 to report summary data for primary and secondary syphilis and early latent syphilis by county and state.
2. FORM CDC 73.688: *Sexually Transmitted Disease Morbidity Report*. This quarterly hard copy reporting form was used during 1963–2002 to report summary data for all stages of syphilis, congenital syphilis, gonorrhea, chancroid, chlamydia, and other STDs by sex and source of report (private versus public) for all 50 states, the District of Columbia, 64 selected cities (including San Juan, Puerto Rico), and outlying areas of the United States.

Note: Chlamydial infection became a nationally notifiable condition in 1996, and the form was modified to support reporting of chlamydia that year. Congenital syphilis was dropped from this aggregate form in 1995 and replaced by the case-specific CDC 73.126 form described later in this section.

3. FORM CDC 73.2638: *Report of Civilian Cases of Primary & Secondary Syphilis, Gonorrhea, and Chlamydia by Reporting Source, Sex, Race/Ethnicity, and Age Group*. This annual hard copy form was used during 1981–2002 to report summary data for P&S syphilis, gonorrhea, and chlamydia by age, race, sex, and source (public versus private) for all 50 states, seven large cities (Baltimore, Chicago, New York City, Los Angeles, Philadelphia, San Francisco, and the District of Columbia), and outlying areas of the United States.

Note: Chlamydial infection became a nationally notifiable condition in 1996, and the form was modified to support reporting of chlamydia that year.

4. FORM CDC 73.126: *Congenital Syphilis (CS) Case Investigation and Reporting*. This case-specific hard copy form was first used in 1983 and continued to be used through 2014 to report detailed case-specific data for congenital syphilis in some areas.

National Electronic Telecommunications System for Surveillance (NETSS)

Notifiable STD data reported electronically through NETSS make up the nationally notifiable disease information published in CDC’s *Morbidity and Mortality Weekly Report*.

As of December 31, 2003, all 50 states and the District of Columbia had converted from summary hard copy reporting to electronic submission of line-listed (i.e., case-specific) STD data through NETSS (41 reporting areas submitted congenital syphilis surveillance data through NETSS in 2014). Puerto Rico converted to electronic reporting in 2006 for all STDs excluding congenital syphilis. Guam and the Virgin Islands continue to report STD data through summary hard copy forms.

Surveillance data and updates sent to CDC through NETSS and on hard copy forms through June 10, 2015, are included in this report. Data received after this date will appear in subsequent STD surveillance reports. The data presented in the figures and tables in this report supersede those in all earlier publications.

A1.2 Population Denominators and Rate Calculations

2000–2014 Rates and Population (Excluding OMB-compliant Race)

CDC's National Center for Health Statistics (NCHS) released bridged-race population counts for the 2000–2013 U.S. resident populations that are based on counts from the 2000 and 2010 U.S. Censuses. These estimates resulted from bridging the 31 race categories first used in the 2000 census, as specified in the 1997 Office of Management and Budget (OMB) standards, to the five race/ethnicity groups specified in the 1977 OMB standards. This report uses the first published population estimate for a given year. The latest available year for population estimates at the time this report was written was 2013. Thus 2013 population estimates were used to calculate 2014 rates. Once published, the 2014 population estimates will be used to calculate rates in the upcoming 2015 STD Surveillance Report.

2000–2014 Rates and Population (including OMB-compliant Race)

For those figures and tables presenting race using the 1997 OMB race standards, non-bridged-race data provided directly by the U.S. Census Bureau were used to calculate race. The latest available year for population estimates at the time this report was written was 2013. Thus, 2013 population estimates were used to calculate 2014 rates. Once published, the 2014 population estimates will be used to calculate rates in the upcoming 2015 STD Surveillance Report.

Population estimates for Puerto Rico were obtained from the U.S. Census Bureau Web site at <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

Population estimates for Guam and the Virgin Islands were obtained from the U.S. Census Bureau International Programs Web site at <http://www.census.gov/population/international/data/idb/informationGateway.php>

The 2014 rates by age and sex for Guam and the Virgin Islands were calculated using 2010 population estimates available at: <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>.

Because of the use of the updated population data, rates for 2000–2013 may be different from those presented in previous STD surveillance reports.

Several figures throughout this report depict state-specific rates of reported cases of STDs. Rates were grouped and displayed by quartiles in Figures 3, 4, 15, 16, 35, A, B, C,

H, and I. Rates were grouped and displayed in 4 categories – zero cases and tertiles – in Figure 36 and Figure D.

1990–1999 Rates and Population

The population counts for 1990 through 1999 incorporated the bridged single-race estimates of the April 1, 2000, U.S. resident population. These files were prepared by the U.S. Census Bureau with support from the National Cancer Institute.

1981–1989 Rates and Population

Rates were calculated by using U.S. Census Bureau population estimates for 1981 through 1989.^{1,2}

1941–1980 Rates and Population

Rates for 1941 through 1980 were based on population estimates from the U.S. Census Bureau and are currently maintained by CDC's Division of STD Prevention.

1941–2014 Congenital Syphilis Rates and Live Births

The congenital syphilis data in Table 1 of this report represent the number of congenital syphilis cases per 100,000 live births for all years during 1941–2014. Previous publications presented congenital syphilis rates per 100,000 population during 1941–1994 and rates for cases diagnosed at younger than 1 year of age per 100,000 live births during 1995–2005. To allow for trends in congenital syphilis rates to be compared for the period 1941 through 2014, live births now are used as the denominator for congenital syphilis, and case counts are no longer limited to those diagnosed within the first year of life. Congenital syphilis morbidity is assigned by year of birth. Rates of congenital syphilis for 1963 through 1988 were calculated by using published live birth data.³ Congenital syphilis rates for 1989 through 2012 were calculated by using live birth data based on information coded by the states and provided to the NCHS through the Vital Statistics Cooperative Program. Rates for 2013 and 2014 were calculated by using live birth data for 2012.

A1.3 Reporting Practices

Although most state and local STD programs generally adhere to the national notifiable STD case definitions collaboratively developed by the Council of State and Territorial Epidemiologists and CDC, differences in policies and systems for collecting surveillance data may exist. Thus, comparisons of case numbers and rates between jurisdictions should be interpreted with caution. However,

because case definitions and surveillance activities within a given area remain relatively stable over time, trends should be minimally affected by these differences.

A1.4 Reporting of Surveillance Data by Metropolitan Statistical Area

Sexually Transmitted Disease Surveillance 2014 continues the presentation of STD incidence data and rates for the 50 metropolitan statistical areas (MSAs) with the largest populations according to 2010 census data. STD surveillance reports published before 2005 presented data by selected cities; these data were derived from county data, which were used to estimate city-specific disease rates. Because county data were used to estimate city-specific morbidity and because current STD project areas' reporting practices do not support direct identification of city-specific morbidity reports, MSAs were chosen as a geographic unit smaller than a state or territory for presentation of STD morbidity data.

MSAs are defined by the OMB to provide nationally consistent definitions for collecting, tabulating, and publishing federal statistics for a set of geographic areas.⁴ An MSA is associated with at least one urbanized area that has a population of at least 50,000. The MSA comprises the central county or counties containing the central county, plus adjacent, outlying counties that have a high degree of social and economic integration with the central county as measured through commuting. The title of an MSA includes the name of the principal city with the largest 2010 census population. If there are multiple principal cities, the names of the second largest and third largest principal cities appear in the title in order of descending population size.

The MSA concept has been used as a statistical representation of the social and economic links between urban cores and outlying, integrated areas. However, MSAs do not equate to an urban-rural classification; all counties included in MSAs and many other counties contain both urban and rural territory and populations. STD programs that treat all parts of an MSA as if they were as urban as the densely settled core ignore the rural conditions that may exist in some parts of the area. In short, MSAs are not intended to be a general purpose geographic framework for nonstatistical activities or for use in program funding formulas.

For more information on the MSA definitions used in this report, go to: <http://www.census.gov/population/metro/data/metrodef.html>.

A1.5 Reporting of Data for Race/Ethnicity

In April 2008, the NETSS record layout was updated to conform to the OMB's current government-wide standard for race/ethnicity data.⁵ The OMB standards were first issued in 1997. Beginning with publication of *Sexually Transmitted Disease Surveillance 2012*, the race/ethnicity data are presented according to the current standard categories: American Indian or Alaska Native, Asian, black or African American, Hispanic or Latino, Native Hawaiian/Other Pacific Islander, white and multirace. As of reporting year 2014, 3 jurisdictions (Alaska, Michigan, and the District of Columbia) were not compliant with the current OMB race/ethnicity standards when reporting chlamydia and gonorrhea. Only two jurisdictions (Alaska and the District of Columbia) were not compliant with the current OMB race/ethnicity standards when reporting primary and secondary syphilis.

For chlamydia and gonorrhea figures showing trends for 2010–2014, data are included for all jurisdictions except eight not consistently reporting race/ethnicity data according to the current standard categories for the five consecutive years (Alaska, Maryland, Michigan, New Jersey, New York, North Carolina, Utah, and the District of Columbia). For primary and secondary syphilis figures showing trends for 2010–2014, data are presented for 44 states excluding seven not consistently reporting race/ethnicity data according to the current standard categories for the five consecutive years (Alaska, Maryland, New Jersey, New York, North Carolina, Utah, and the District of Columbia).

A1.6 Management of Unknown, Missing, or Invalid Data for Age Group, Race/Ethnicity, and Sex

The percentage of unknown, missing, or invalid data for age group, race/ethnicity, and sex varies from year to year, state to state, and by disease for reported STDs (Table A1).

Prior to the publication of *Sexually Transmitted Disease Surveillance 2010*, when the percentage of unknown, missing, or invalid values for age group, race/ethnicity, and sex exceeded 50% for any state, the state's incidence and population data were excluded from the tables that presented data stratified by one or more of these variables. For the states for which 50% or more of their data were valid for age group, race/ethnicity, and sex, the values for unknown, missing, or invalid data were redistributed on the basis of the state's distribution of known age group, race/ethnicity, and sex data. Beginning with the publication of *Sexually Transmitted Disease Surveillance 2010*,

redistribution methodology is not applied to any of the data. The counts presented in this report are summations of all valid data reported in reporting year 2014.

As a result, rate data that are stratified by one or more of these variables reflect rates based on reported data only.

A1.7 Classification of STD Morbidity Reporting Sources

Before 1996, states classified the source of case reports as either private source (including private physicians, hospitals, and institutions) or public source (primarily STD clinics). As states began reporting morbidity data electronically in 1996, the classification categories for source of case reports expanded to include the following data sources: STD clinics, HIV counseling and testing sites, drug treatment clinics, family planning clinics, prenatal/obstetrics clinics, tuberculosis clinics, private physicians/health maintenance organizations, hospitals (inpatient), emergency rooms, correctional facilities, laboratories, blood banks, the National Job Training Program (NJTP), school-based clinics, mental health providers, the military, the Indian Health Service, and other unspecified sources.

Analysis of the data reported electronically after 1996 confirmed that the new STD clinic source of report data corresponded to the earlier public source category. Therefore, source of case report data during 1984–2014 are presented as STD clinic or non-STD clinic only (Table A2).

A1.8 Interpreting Chlamydia Case Reporting

Trends in rates of reported cases of chlamydia are influenced by changes in incidence of infection, as well as changes in diagnostic, screening, and reporting practices. As chlamydial infections are usually asymptomatic, the number of infections identified and reported can increase as more people are screened even when incidence is flat or decreasing. Expanded use of more sensitive diagnostics tests (e.g., nucleic acid amplification tests) can also increase the number of infections identified and reported independent of increases in incidence. Although chlamydia has been a nationally notifiable condition since 1994, it was not until 2000 that all 50 states and the District of Columbia required reporting of chlamydia cases. National case rates prior to 2000 reflect incomplete reporting. Additionally, increasing use of electronic laboratory reporting has likely increased the proportion of diagnosed cases that are reported. Consequently, an increasing chlamydia case rate may reflect increases in incidence of infection, screening coverage, and use of

more sensitive tests, as well as more complete reporting. Likewise, decreases in chlamydia case rates may suggest decreases in incidence of infection or screening coverage.

A1.9 Syphilis Morbidity Reporting

The category of “total syphilis” or “all stages of syphilis” includes primary syphilis, secondary syphilis, early latent syphilis, late latent syphilis, and late syphilis with clinical manifestations (including late benign syphilis and cardiovascular syphilis), and congenital syphilis.

Although neurosyphilis can occur at almost any stage of syphilis, during 1996–2005, it was classified and reported as one of several mutually exclusive stages of syphilis. Beginning in 2005, neurosyphilis was no longer classified or reported as a distinct stage of syphilis.

A1.10 Congenital Syphilis Morbidity Reporting

In 1988, the surveillance case definition for congenital syphilis was changed. This case definition has greater sensitivity than the former definition.⁶ In addition, many state and local STD programs have greatly enhanced active case finding for congenital syphilis since 1988. For these reasons, as well as because of increasing morbidity, the number of reported cases increased dramatically during 1989–1991. All reporting areas had implemented the new case definition for reporting congenital syphilis by January 1, 1992.

In addition to changing the case definition for congenital syphilis, CDC introduced a new data collection form (CDC 73.126) in 1990 (revised February 2013). Since 1995, the data collected on this form have been used for reporting congenital syphilis cases and associated rates. This form is used to collect individual case information, which allows more thorough analysis of case characteristics. For the purpose of analyzing race/ethnicity, cases are classified by the race/ethnicity of the mother. Congenital syphilis cases were reported by state and city of residence of the mother during 1995–2014.

Congenital syphilis reporting may be delayed as a result of case investigation and validation. Cases for previous years are added to CDC’s surveillance databases throughout the year. Congenital syphilis data reported after publication of the current annual STD surveillance report will appear in subsequent reports and are assigned by the case patient’s year of birth.

A2. Other Sources of Surveillance Data

A2.1 National Job Training Program (NJTP)

Chlamydia and gonorrhea prevalence was calculated for men and women entering the NJTP. To increase the stability of the estimates, chlamydia or gonorrhea prevalence data are presented when valid test results for 100 or more students per year are available for the population subgroup and state. The majority of NJTP's chlamydia screening tests are conducted by a single national contract laboratory, which provides these data to CDC. Gonorrhea screening tests for male and female students in many training centers are conducted by local laboratories; these data are not available to CDC. Test results for students at centers that submit specimens to the national contract laboratory are included only if the number of gonorrhea tests submitted is greater than 90% of the number of chlamydia tests submitted from the same center for the same period. Prevalence data for state-specific figures were published with permission from the NJTP. Prevalence data presented in Figures J, K, L, and M are grouped and displayed by chosen cut-off values rather than quantiles.

A2.2 STD Surveillance Network (SSuN)

In 2005, CDC established the STD Surveillance Network (SSuN) as a dynamic network comprised of state and local STD surveillance units following enhanced STD surveillance protocols. The purpose of SSuN is to improve the capacity of national, state, and local STD programs to detect, monitor, and respond rapidly to trends in STDs through enhanced collection, reporting, analysis, visualization, and interpretation of disease information.

Twelve collaborating local or state health departments contributed data through Cycle 2 of the network through June of 2013. These include Alabama Department of Public Health, Baltimore City Health Department, Chicago Department of Public Health, Colorado Department of Public Health and Environment, Connecticut Department of Public Health, County of Los Angeles Department of Public Health (in collaboration with California State Department of Public Health), Louisiana Office of Public Health, New York City Department of Health and Mental Hygiene, Philadelphia Department of Public Health, San Francisco Department of Public Health, Virginia Department of Health, and Washington State Department of Health. Cycle 3 of the network was funded in 2013 and includes Baltimore City Health Department, California

State Department of Public Health, Florida Department of Health, Massachusetts Department of Public Health, Minnesota Department of Health, Multnomah County Health Department, New York City Department of Health and Mental Hygiene, Philadelphia Department of Public Health, San Francisco Department of Public Health, Utah Department of Health and the Washington State Department of Health.

The SSuN data contained in this report include demographic, behavioral, clinical, and laboratory information collected from patients at STD clinics within the jurisdictions of SSuN health state and/or local health departments. These clinics are located in San Francisco, CA (San Francisco City Clinic); Los Angeles, CA (12 STD clinics in Los Angeles County); Seattle, WA (Seattle-King County Clinic); Denver, CO (Denver Metro Health Clinic); Chicago, IL (7 public STD clinics in Cook County); New Orleans, LA (Delgado Personal Health Center); Birmingham, AL (Jefferson County STD Clinic); Richmond, VA (Richmond City, Henrico County and Chesterfield County Clinics); Baltimore, MD (Druid STD Clinic and Eastern STD Clinic); Philadelphia, PA (Philadelphia STD Clinics 1 and 5); New York City, NY (9 public STD clinics in 5 boroughs); Hartford, CT (Hartford STD Clinic); and New Haven, CT (New Haven STD Clinic).

Collaborators in SSuN jurisdictions also identified a probability sample of all gonorrhea cases reported to the health department for enhanced investigation including administration of a standardized behavioral interview. Information including number, gender and demographics of recent partners was collected directly from patients.

Gay, bisexual, and other men who have sex with men (MSM) were defined as men who either reported having sex with another man ever before STD testing (asked at all SSuN sites) or who did not report sex with men but reported that they considered themselves gay/homosexual or bisexual (asked at 10 of the 12 sites). Men who have sex with women (MSW) were defined as men who reported having sex with women only before STD testing or who did not report the sex of their sex partner, but reported that they considered themselves straight/heterosexual (asked at 10 of the 12 sites). Data from the probability sample are weighted to reflect differing sample fractions across jurisdictions and to adjust for non-response. Weighted analyses provides estimates of these characteristics representative of all reported cases in the collaborating jurisdictions.

Data points presented in this report for 2014 from the STD clinic component of SSuN (Figures 9, 24, 52, V, W, X) are based on data from six jurisdictions (Baltimore City, Los

Angeles, New York City, Philadelphia, San Francisco and Washington State) continuing collaboration across Cycles 2 & 3. For the enhanced gonorrhea component of SSuN, new protocols are being implemented in Cycle 3 and data will not be available until 2015. Figure 23 presents data collected through June of 2013 showing the proportion of cases attributable to MSM, MSW and women.

A2.3 Gonococcal Isolate Surveillance Project (GISP)

Data on antimicrobial susceptibility in *Neisseria gonorrhoeae* were collected through the Gonococcal Isolate Surveillance Project (GISP), a sentinel system of selected STD clinics located at 25–30 GISP sentinel sites and 4–5 regional laboratories in the United States. For more details on findings from GISP, go to: <http://www.cdc.gov/std/GISP>.

For 2014, the antimicrobial agents tested by GISP were ceftriaxone, cefixime, azithromycin, spectinomycin, ciprofloxacin, penicillin, and tetracycline.

The antimicrobial susceptibility criteria used in GISP for 2014 are as follows:

- Ceftriaxone, minimum inhibitory concentration (MIC) ≥ 0.5 $\mu\text{g/ml}$ (decreased susceptibility)*
- Ceftriaxone, MIC ≥ 0.125 $\mu\text{g/ml}$ (elevated MICs)*
- Cefixime, MIC ≥ 0.5 $\mu\text{g/ml}$ (decreased susceptibility)*
- Cefixime, MIC ≥ 0.25 $\mu\text{g/ml}$ (elevated MICs)*
- Azithromycin, MIC ≥ 2.0 $\mu\text{g/ml}$ (decreased susceptibility)*
- Spectinomycin, MIC ≥ 128.0 $\mu\text{g/ml}$ (resistance)
- Ciprofloxacin, MIC ≥ 1.0 $\mu\text{g/ml}$ (resistance)
- Ciprofloxacin, MIC 0.125–0.5 $\mu\text{g/ml}$ (intermediate resistance)
- Penicillin, MIC ≥ 2.0 $\mu\text{g/ml}$ (resistance)
- Tetracycline, MIC ≥ 2.0 $\mu\text{g/ml}$ (resistance).

The majority of these criteria are also recommended by the Clinical and Laboratory Standards Institute (CLSI).⁷

A2.4 National Health and Nutrition Examination Survey (NHANES)

The National Health and Nutrition Examination Survey (NHANES) is a series of cross-sectional surveys designed to provide national statistics on the health and nutritional

status of the general household population in the United States. Data are collected through household interviews, standardized physical examinations, and the collection of biological samples in special mobile examination centers. In 1999, NHANES became a continuous survey with data released every 2 years. The sampling plan of the survey is a stratified, multistage, probability cluster design that selects a sample representative of the U.S. civilian, non-institutionalized population. For more information, see: <http://www.cdc.gov/nchs/nhanes.htm>.

A2.5 National Disease and Therapeutic Index (NDTI)

The information on the number of initial visits to private physicians' offices for STDs was based on analysis of data from the National Disease and Therapeutic Index (NDTI) (machine-readable files or summary statistics for 1966 through 2013; the 2014 NDTI data were not obtained in time to include them in this report). NDTI is a probability sample survey of private physicians' clinical management practices. For more information on this database, contact IMS Health, e-mail: ServiceCenter@us.imshealth.com; Telephone: (800) 523-5334.

- ¹ U.S. Census Bureau. United States population estimates by age, sex and race: 1980–1988. In: Current population reports [Series P-25, No. 1045]. Washington, DC: U.S. Government Printing Office; 1990.
- ² U.S. Census Bureau. United States population estimates by age, sex and race: 1989. In: Current population reports [Series P-25, No. 1057]. Washington, DC: U.S. Government Printing Office; 1990.
- ³ Centers for Disease Control and Prevention. Vital statistics of the United States 1988. vol.1 - natality. Hyattsville (MD): U.S. Department of Health and Human Services; 1990.
- ⁴ Office of Management and Budget. Standards for defining metropolitan and micropolitan statistical areas. Federal Register. 2000;65(249):82228-38.
- ⁵ Office of Management and Budget. Revisions to the Standards for Classification of Federal Data on Race and Ethnicity. Federal Register Notice. October 30, 1997.
- ⁶ Kaufman RE, Jones OG, Blount JH, Wiesner PJ. Questionnaire survey of reported early congenital syphilis: problems in diagnosis, prevention, and treatment. Sex Transm Dis. 1977;4:135-9.
- ⁷ Clinical and Laboratory Standards Institute. Performance standards for antimicrobial susceptibility testing; twenty-fifth informational supplement. M100-S25, 35(3). Wayne (PA): Clinical and Laboratory Standards Institute; 2015.

* The Clinical Laboratory Standards Institute criteria for decreased susceptibility and resistance to ceftriaxone, cefixime, and azithromycin and for susceptibility to azithromycin have not been established for *N. gonorrhoeae*.

Table A1. Selected STDs — Percentage of Unknown, Missing, or Invalid Values for Selected Variables by State and by Nationally Notifiable STD, 2014

| State | Primary and Secondary Syphilis | | | | Gonorrhea | | | Chlamydia | | |
|----------------------|-----------------------------------|------------------------|------------------------|--------------------------------|-----------------------------------|------------------------|------------------------|-----------------------------------|------------------------|------------------------|
| | Percentage Unknown Race/Ethnicity | Percentage Unknown Age | Percentage Unknown Sex | Percentage Unknown Sex Partner | Percentage Unknown Race/Ethnicity | Percentage Unknown Age | Percentage Unknown Sex | Percentage Unknown Race/Ethnicity | Percentage Unknown Age | Percentage Unknown Sex |
| Alabama | 7.5 | 0.0 | 0.0 | 30.4 | 25.5 | 0.1 | 0.3 | 30.5 | 0.0 | 0.3 |
| Alaska | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Arizona | 0.7 | 0.0 | 0.0 | 4.3 | 22.7 | 0.0 | 0.0 | 30.9 | 0.0 | 0.0 |
| Arkansas | 0.8 | 0.0 | 0.0 | 14.0 | 10.4 | 0.2 | 0.1 | 14.8 | 0.1 | 0.1 |
| California | 7.6 | 0.1 | 0.1 | 11.8 | 24.9 | 0.6 | 0.2 | 37.1 | 0.5 | 0.2 |
| Colorado | 6.5 | 0.0 | 0.0 | 2.7 | 22.7 | 0.0 | 0.0 | 41.4 | 0.0 | 0.0 |
| Connecticut | 2.3 | 2.3 | 0.0 | 9.3 | 45.5 | 0.3 | 0.3 | 64.3 | 0.1 | 0.8 |
| Delaware | 0.0 | 0.0 | 0.0 | 80.9 | 2.6 | 0.0 | 0.0 | 5.2 | 0.0 | 0.0 |
| District of Columbia | 29.3 | 0.0 | 4.3 | 100.0 | 64.0 | 0.6 | 0.7 | 65.9 | 0.8 | 0.5 |
| Florida | 4.7 | 0.0 | 0.1 | 9.0 | 15.2 | 0.0 | 0.1 | 20.6 | 0.0 | 0.2 |
| Georgia | 1.7 | 0.0 | 0.0 | 30.2 | 29.9 | 0.1 | 0.6 | 39.1 | 0.1 | 0.7 |
| Hawaii | 5.9 | 0.0 | 0.0 | 16.2 | 38.3 | 0.3 | 0.1 | 48.0 | 0.0 | 0.0 |
| Idaho | 8.3 | 0.0 | 0.0 | 16.7 | 28.2 | 0.0 | 0.0 | 41.5 | 0.0 | 0.0 |
| Illinois | 2.4 | 0.0 | 0.0 | 25.5 | 20.4 | 0.0 | 0.2 | 21.4 | 0.0 | 0.2 |
| Indiana | 0.0 | 0.0 | 0.0 | 4.2 | 2.9 | 0.0 | 0.1 | 5.2 | 0.0 | 0.0 |
| Iowa | 0.0 | 0.0 | 0.0 | 6.9 | 5.8 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 |
| Kansas | 1.7 | 0.0 | 0.0 | 10.0 | 19.6 | 0.0 | 0.0 | 42.7 | 0.0 | 0.0 |
| Kentucky | 0.0 | 0.0 | 0.0 | 4.4 | 20.4 | 0.3 | 0.3 | 30.2 | 0.3 | 0.4 |
| Louisiana | 8.3 | 0.0 | 0.0 | 9.0 | 1.9 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 |
| Maine | 31.3 | 0.0 | 0.0 | 31.3 | 30.0 | 0.4 | 0.8 | 40.7 | 0.2 | 0.1 |
| Maryland | 2.4 | 0.0 | 0.0 | 46.8 | 19.1 | 0.1 | 0.2 | 30.4 | 0.2 | 0.1 |
| Massachusetts | 7.3 | 0.3 | 0.3 | 33.2 | 39.0 | 0.1 | 0.3 | 46.5 | 0.2 | 0.3 |
| Michigan | 0.0 | 0.0 | 0.0 | 6.9 | 23.5 | 0.3 | 0.1 | 28.2 | 0.2 | 0.1 |
| Minnesota | 1.2 | 0.0 | 0.4 | 6.2 | 19.3 | 0.0 | 0.3 | 26.5 | 0.0 | 0.0 |
| Mississippi | 3.2 | 0.0 | 0.0 | 9.0 | 10.9 | 0.0 | 0.0 | 15.3 | 0.1 | 0.0 |
| Missouri | 2.0 | 0.0 | 0.0 | 10.5 | 8.9 | 0.0 | 0.0 | 14.9 | 0.0 | 0.0 |
| Montana* | 12.5 | 0.0 | 0.0 | 12.5 | 5.5 | 0.5 | 0.0 | 6.3 | 0.6 | 0.0 |
| Nebraska | 12.0 | 0.0 | 0.0 | 28.0 | 19.5 | 0.0 | 0.2 | 32.9 | 0.0 | 0.4 |
| Nevada | 2.5 | 0.0 | 0.0 | 19.6 | 26.1 | 0.0 | 0.1 | 32.0 | 0.0 | 0.1 |
| New Hampshire | 13.9 | 0.0 | 0.0 | 11.1 | 14.6 | 0.0 | 0.0 | 21.3 | 0.0 | 0.1 |
| New Jersey | 5.7 | 0.0 | 0.0 | 25.6 | 32.7 | 0.3 | 0.2 | 48.1 | 0.3 | 0.3 |
| New Mexico | 14.3 | 0.0 | 0.0 | 5.6 | 25.3 | 0.0 | 0.0 | 30.1 | 0.0 | 0.1 |
| New York | 6.6 | 0.0 | 0.2 | 26.5 | 24.7 | 0.1 | 0.3 | 37.2 | 0.2 | 0.1 |
| North Carolina | 0.0 | 0.0 | 0.0 | 13.0 | 12.1 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 |
| North Dakota | 7.7 | 0.0 | 0.0 | 7.7 | 13.3 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 |
| Ohio | 0.2 | 0.0 | 0.0 | 7.6 | 20.2 | 0.1 | 0.0 | 27.0 | 0.1 | 0.0 |
| Oklahoma | 0.0 | 0.0 | 0.0 | 2.6 | 6.6 | 0.0 | 0.0 | 7.8 | 0.0 | 0.0 |
| Oregon | 6.6 | 0.0 | 0.0 | 21.7 | 14.9 | 0.0 | 0.1 | 29.5 | 0.1 | 0.1 |
| Pennsylvania | 2.4 | 0.0 | 0.0 | 12.4 | 27.6 | 0.0 | 0.0 | 37.4 | 0.0 | 0.1 |
| Rhode Island | 1.4 | 0.0 | 0.0 | 7.0 | 5.3 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 |
| South Carolina | 0.0 | 0.0 | 0.0 | 1.2 | 27.8 | 0.1 | 0.4 | 34.1 | 0.1 | 0.5 |
| South Dakota | 0.0 | 0.0 | 0.0 | 47.2 | 2.4 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 |
| Tennessee | 0.8 | 0.0 | 0.0 | 3.4 | 1.4 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 |
| Texas | 0.6 | 0.0 | 0.0 | 3.5 | 13.0 | 0.1 | 0.1 | 17.2 | 0.0 | 0.1 |
| Utah | 0.0 | 0.0 | 0.0 | 31.9 | 1.9 | 0.0 | 0.0 | 3.6 | 0.0 | 0.0 |
| Vermont* | 0.0 | 0.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 | 3.6 | 0.0 | 0.1 |
| Virginia | 0.0 | 0.0 | 0.0 | 7.6 | 18.1 | 0.0 | 0.1 | 28.7 | 0.1 | 0.1 |
| Washington | 24.7 | 0.0 | 0.0 | 4.4 | 18.8 | 0.0 | 0.0 | 23.1 | 0.1 | 0.0 |
| West Virginia | 0.0 | 0.0 | 0.0 | 7.1 | 12.6 | 0.0 | 0.0 | 22.5 | 0.0 | 0.0 |
| Wisconsin | 15.1 | 0.0 | 0.0 | 70.9 | 19.6 | 0.0 | 0.1 | 21.4 | 0.0 | 0.1 |
| Wyoming* | 25.0 | 0.0 | 0.0 | 75.0 | 19.0 | 0.0 | 0.0 | 21.8 | 0.0 | 0.1 |
| U.S. TOTAL | 4.5 | 0.0 | 0.1 | 15.5 | 19.3 | 0.1 | 0.1 | 27.1 | 0.1 | 0.1 |

* Percentages for primary and secondary syphilis are based on less than 10 cases.

NOTE: Unknown includes cases reported with unknown, missing, or invalid data values.

Table A2. Reported Cases of STDs by Reporting Source and Sex, United States, 2014

| Disease | Non-STD Clinic | | | STD Clinic | | | Total | | |
|--------------------------------|----------------|---------|-----------|------------|--------|---------|---------|-----------|-----------|
| | Male | Female | Total* | Male | Female | Total* | Male† | Female† | Total† |
| Chlamydia | 307,845 | 818,255 | 1,127,566 | 64,479 | 49,702 | 114,258 | 433,325 | 1,006,441 | 1,441,789 |
| Gonorrhea | 129,529 | 127,049 | 256,917 | 32,179 | 13,347 | 45,555 | 186,943 | 162,608 | 350,062 |
| Primary Syphilis | 3,806 | 278 | 4,086 | 1,525 | 80 | 1,606 | 5,680 | 412 | 6,095 |
| Secondary Syphilis | 8,811 | 1,102 | 9,916 | 2,803 | 238 | 3,042 | 12,466 | 1,428 | 13,904 |
| Early Latent Syphilis | 12,215 | 2,014 | 14,249 | 3,186 | 475 | 3,664 | 16,733 | 2,687 | 19,452 |
| Late and Late Latent Syphilis§ | 11,679 | 4,959 | 16,669 | 2,204 | 608 | 2,814 | 16,872 | 6,634 | 23,541 |
| Chancroid | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 2 | 6 |

* Total includes cases reported with unknown sex.

† Total includes cases reported with unknown reporting source.

‡ Total includes cases reported with unknown sex and reporting source.

§ Late and late latent syphilis includes late latent syphilis, latent syphilis of unknown duration, neurosyphilis, late syphilis with clinical manifestations other than neurosyphilis, and late syphilis with clinical manifestations (including late benign syphilis and cardiovascular syphilis).

B. National Objectives and Goals

B1. Healthy People 2020 Objectives

For three decades, Healthy People has provided a comprehensive set of national 10-year health promotion and disease prevention objectives aimed at improving the health of all Americans.¹ It is grounded in the principle that establishing objectives and providing benchmarks to track and monitor progress over time can motivate, guide, and focus action.

Healthy People 2020 (HP2020) continues in the tradition of its ambitious, yet achievable, 10-year agenda for improving the Nation's health. HP2020 is the result of a multiyear process that reflects input from a diverse group of individuals and organizations. HP2020 is organized into 42 topic areas, with more than 1,200 measures designed drive action that will support its four overarching goals:

- Attain high-quality, longer lives free of preventable disease, disability, injury, and premature death.
- Achieve health equity, eliminate disparities, and improve the health of all groups.
- Create social and physical environments that promote good health for all.
- Promote quality of life, healthy development, and healthy behaviors across all life stages.

The topic area, Sexually Transmitted Diseases, contains objectives and measures related to STDs. Baselines, HP2020 targets, and annual progress toward the targets are reported in Table B1. The year 2020 targets for the diseases addressed in this report are as follows: P&S syphilis (males), 6.8 cases per 100,000 population; P&S syphilis (females), 1.4 cases per 100,000 population; congenital syphilis, 9.1 cases per 100,000 live births; gonorrhea (females aged 15–44 years), 257.0 cases per 100,000 population and gonorrhea (males aged 15–44 years), 198.0 cases per 100,000 population. The majority of the STD-related HP2020 targets were set using a standard percentage improvement with a standard default of a “10 percent improvement over the baseline.”

B2. Government Performance and Results Act of 1993

The Government Performance and Results Act (GPRA) of 1993 was enacted by Congress to increase confidence in the capability of the federal government to increase the effectiveness and accountability of federal programs, to improve service delivery, to provide federal agencies a uniform tool for internal management, and to help Congress make decisions.

GPRA requires each agency to have a performance plan with long-term outcomes and annual, measurable performance goals and to report on these plans annually, comparing results with annual goals. There are two GPRA goals for STD: reducing PID and eliminating congenital syphilis. Each of these goals has specific measures of progress, which are outlined in Table B2.

¹ U.S. Department of Health and Human Services. Healthy People 2020 Web site. [Accessed on 9/8/2015] <http://healthypeople.gov/2020/default.aspx>.

Table B1. Healthy People 2020 (HP 2020) Sexually Transmitted Diseases Objectives

| HP2020 Objectives | Baseline Year | Baseline | 2012 | 2013 | 2014 | HP 2020 Target |
|---|---------------|----------|--------|--------------------|-------|----------------|
| 1 Reduce the proportion of adolescents and young adults with Chlamydia trachomatis infections | | | | | | |
| a. Among females aged 15 to 24 years attending family planning clinics | 2008 | 7.4% | N/A | N/A | N/A | 6.7% |
| b. Among females aged 24 years and under enrolled in a National Job Training Program | 2008 | 12.8% | 11.0% | 11.7% | N/A | 11.5% |
| c. Among males aged 24 years and under enrolled in a National Job Training Program | 2008 | 7.0% | 7.0% | 7.4% | N/A | 6.3% |
| 2 Increase the proportion of sexually active females aged 24 years and under enrolled in Medicaid plans who are screened for genital Chlamydia infections during the measurement year | | | | | | |
| a. Females aged 16 to 20 years | 2008 | 52.7% | 53.5% | 53.0% | N/A | 70.9% |
| b. Females aged 21 to 24 years | 2008 | 59.4% | 63.6% | 64.1% | N/A | 80.0% |
| 3 Increase the proportion of sexually active females aged 24 years and under enrolled in commercial health insurance plans who are screened for genital Chlamydia infections during the measurement year | | | | | | |
| a. Females aged 16 to 20 years | 2008 | 40.1% | 41.4% | 42.3% | N/A | 61.3% |
| b. Females aged 21 to 24 years | 2008 | 43.5% | 49.2% | 51.2% | N/A | 74.6% |
| 4 Reduce the proportion of females aged 15 to 44 who have ever required treatment for pelvic inflammatory disease (PID) | 2006-2008 | 4.0% | N/A | N/A | N/A | 3.6% |
| 5 Reduce gonorrhea rates | | | | | | |
| a. Females aged 15 to 44 years | 2008 | 285.0 | 264.7 | 250.6 | 248.8 | 257.0 |
| b. Males aged 15 to 44 years | 2008 | 220.4 | 232.1 | 239.4 | 263.0 | 198.0 |
| 6 Reduce sustained domestic transmission of primary and secondary syphilis | | | | | | |
| a. Among females | 2008 | 1.5 | 0.9 | 0.9 | 1.2 | 1.4 |
| b. Among males | 2008 | 7.6 | 9.3 | 10.3 | 11.8 | 6.8 |
| 7 Reduce congenital syphilis | 2008 | 10.1 | 8.4 | 9.1 | 11.6 | 9.1 |
| 8 Reduce the proportion of females with human papillomavirus (HPV) Infection (DEVELOPMENTAL) | | | | | | |
| a. Females with types 6 and 11 | 2003-2006 | 3.2 | 2.0* | N/A | N/A | N/A |
| b. Females with types 16 and 18 | 2003-2006 | 6.2 | 6.1* | N/A | N/A | N/A |
| c. Females with other types | 2003-2006 | 40.3 | 38.3* | N/A | N/A | N/A |
| 9 Reduce the proportion of young adults with genital herpes infection due to herpes simplex type 2 | 2005-2008 | 10.5% | 8.8%** | 8.3 (2011-2012) | N/A | 9.5% |

| HP2020 Objectives | Data Source |
|-------------------|--|
| 1a | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 1b, 1c | National Job Training Program, STD Surveillance System (STDSS), NCHHSTP, CDC |
| 2a, 2b | Healthcare Effectiveness Data and Information Set (HEDIS), National Committee for Quality Assurance (NCQA) |
| 3a, 3b | Healthcare Effectiveness Data and Information Set (HEDIS), National Committee for Quality Assurance (NCQA) |
| 4 | 2006-2010 National Survey of Family Growth (NSFG), NCHS, CDC |
| 5a, 5b | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 6a, 6b | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 7 | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 8a, 8b | NHANES, CDC, NCHS and the National Health Interview Survey (NHIS), CDC |
| 8c | NHANES, CDC, NCHS |
| 9 | NHANES, CDC, NCHS |

*2007-2010

**2009-2010 data among 20-29 year olds

Table B2. Government Performance and Results Act (GPRA) Sexually Transmitted Diseases Goals, Measures, and Target

| GPRA Goals | Actual | | | Target |
|--|-------------------|------------------|---------------|---------------|
| | 2012 | 2013 | 2014 | 2015 |
| Goal 1: Reduction in PID (as measured by initial visits to physicians in women 15–44 years of age) | 106,000 | 88,000 | 98,800 | 87,208 |
| a. Proportion of high-risk women aged 16-20 infected with chlamydia* | 12.4 [†] | 13.3 | N/A | 11.9 |
| b. Proportion of high-risk women aged 21-24 infected with chlamydia* | 8.9 [†] | 9.4 [†] | N/A | 8.5 |
| c. Rate of gonorrhea/100,000 population in women aged 16-20 | 618.5 | 551.9 | 523.9 | 538.1 |
| d. Rate of gonorrhea/100,000 population in women aged 21-24 | 545.3 | 513.8 | 508.1 | 512.8 |
| e. Black: white ratio of gonorrhea in women 16-24 | 12.4 | 11.1 | 10.3 | 10.6 |
| f. Proportion of sexually active females 16-20 enrolled in Medicaid who are screened for chlamydia infections | 53.5 | 53.0 | N/A | 61.1 |
| g. Proportion of sexually active females 21-24 enrolled in Medicaid who are screened for chlamydia infections | 63.6 | 64.1 | N/A | 65.4 |
| h. Proportion of sexually active females 16-20 enrolled in commercial health insurance plans who are screened for chlamydia infections | 41.1 | 42.3 | N/A | 43.1 |
| i. Proportion of sexually active females 21-24 enrolled in commercial health insurance plans who are screened for chlamydia infections | 49.2 | 51.2 | N/A | 52.2 |
| Goal 2: Elimination of Congenital Syphilis | | | | |
| a. Incidence of P&S syphilis/100,000 population in women aged 15-44 | 2.1 | 2.1 | 2.6 | 1.7 |
| b. Incidence of congenital syphilis/100,000 live births | 8.4 | 8.7 | 11.5 | 6.7 |
| c. Proportion of pregnant women that are screened for syphilis at least one month before delivery | 85.0 | 85.1 | N/A | 84 |

| GPRA Goals | Data Source |
|----------------|--|
| 1 | National Disease and Therapeutic Index (IMS Health) |
| 1a, 1b | National Job Training Program |
| 1c, 1d, 1e | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 1f, 1g, 1h, 1i | Healthcare Effectiveness Data and Information Set (HEDIS), National Committee for Quality Assurance (NCQA) |
| 2a, 2b | STD Surveillance System (STDSS), NCHHSTP, CDC |
| 2c | Marketscan. Thomson Reuters (Healthcare) Inc. |

* Median state-specific chlamydia prevalence/positivity among states with >100 females in this age group entering the National Job Training Program.

[†] In FY 2013 CDC improved the calculation of these data to increase the stability of estimate over time. Data for 2010 and later years reflect this improved calculation method.

GPRA= Government Performance and Results Act; PID= pelvic inflammatory disease; P&S= primary and secondary; N/A = Not available.

C. STD Surveillance Case Definitions

C1. CASE DEFINITIONS¹ FOR NATIONALLY NOTIFIABLE INFECTIOUS DISEASES

C1.1 Chancroid (Revised 9/96)

Clinical description

A sexually transmitted disease characterized by painful genital ulceration and inflammatory inguinal adenopathy. The disease is caused by infection with *Haemophilus ducreyi*.

Laboratory criteria for diagnosis

- Isolation of *H. ducreyi* from a clinical specimen

Case classification

Probable: a clinically compatible case with both a) no evidence of *Treponema pallidum* infection by darkfield microscopic examination of ulcer exudate or by a serologic test for syphilis performed ≥ 7 days after onset of ulcers and b) either a clinical presentation of the ulcer(s) not typical of disease caused by herpes simplex virus (HSV) or a culture negative for HSV.

Confirmed: a clinically compatible case that is laboratory confirmed.

C1.2 *Chlamydia trachomatis* Infection (Revised 6/09)

Clinical description

Infection with *Chlamydia trachomatis* may result in urethritis, epididymitis, cervicitis, acute salpingitis, or other syndromes when sexually transmitted; however, the infection is often asymptomatic in women. Perinatal infections may result in inclusion conjunctivitis and pneumonia in newborns. Other syndromes caused by *C. trachomatis* include lymphogranuloma venereum (see Lymphogranuloma Venereum) and trachoma.

Laboratory criteria for diagnosis

- Isolation of *C. trachomatis* by culture or
- Demonstration of *C. trachomatis* in a clinical specimen by detection of antigen or nucleic acid

Case classification

Confirmed: a case that is laboratory confirmed

C1.3 Gonorrhea (Effective 1/14)

Clinical description

A sexually transmitted infection commonly manifested by urethritis, cervicitis, proctitis, salpingitis, or pharyngitis. Infection may be asymptomatic.

¹ Centers for Disease Control and Prevention. Case definitions for infectious conditions under public health surveillance, 1997. MMWR Morb Mortal Wkly Rep. 1997;46(No. RR-10).

Laboratory criteria for diagnosis

- Observation of gram-negative intracellular diplococci in a urethral smear obtained from a male or an endocervical smear obtained from a female, or
- Isolation of typical gram-negative, oxidase-positive diplococci by culture (presumptive *Neisseria gonorrhoeae*) from a clinical specimen, or
- Demonstration of *N. gonorrhoeae* in a clinical specimen by detection of antigen or nucleic acid

Case classification

Probable: demonstration of gram-negative intracellular diplococci in a urethral smear obtained from a male or an endocervical smear obtained from a female.

Confirmed: a person with laboratory isolation of typical gram-negative, oxidase-positive diplococci by culture (presumptive *Neisseria gonorrhoeae*) from a clinical specimen, or demonstration of *N. gonorrhoeae* in a clinical specimen by detection of antigen or detection of nucleic acid via nucleic acid amplification (e.g., PCR) or hybridization with a nucleic acid probe.

C1.4 Syphilis (Effective 1/14)

Syphilis is a complex sexually transmitted disease that has a highly variable clinical course. Adherence to the following surveillance case definitions will facilitate understanding the epidemiology of this disease across the U.S.

Syphilis, primary (Effective 1/14)

Clinical description

A stage of infection with *Treponema pallidum* characterized by one or more ulcerative lesions (e.g. chancre), which might differ considerably in clinical appearance.

Laboratory criteria for diagnosis

- Demonstration of *T. pallidum* in clinical specimens by darkfield microscopy, or by polymerase chain reaction (PCR) or equivalent direct molecular methods.

Case classification

Probable: a case that meets the clinical description of primary syphilis with a reactive serologic test (nontreponemal: Venereal Disease Research Laboratory [VDRL], rapid plasma reagin [RPR], or equivalent serologic methods; treponemal: fluorescent treponemal antibody absorbed [FTA-ABS], *T. pallidum* particle agglutination [TP-PA], enzyme immunoassay [EIA], chemiluminescence immunoassay [CIA], or equivalent serologic methods). These treponemal tests supersede older testing technologies, including microhemagglutination assay for antibody to *T. pallidum* [MHA-TP].

Confirmed: a case that meets the clinical description of primary syphilis that is laboratory confirmed.

Syphilis, secondary (Effective 1/14)

Clinical description

A stage of infection caused by *T. pallidum* characterized by localized or diffuse mucocutaneous lesions (e.g., rash – such as non-pruritic macular, maculopapular, papular, or pustular lesions), often with generalized lymphadenopathy. Other symptoms can include mucous patches, condyloma lata, and alopecia. The primary ulcerative lesion may still be present. Because of the wide array of symptoms possibly indicating secondary syphilis, serologic tests for syphilis and a thorough sexual history and physical examination are crucial to determining if a case should be classified as secondary syphilis.

Laboratory criteria for diagnosis

- Demonstration of *T. pallidum* in clinical specimens by darkfield microscopy, or by polymerase chain reaction (PCR) or equivalent direct molecular methods.

Case classification

Probable: a case that meets the clinical description of secondary syphilis with a nontreponemal (VDRL, RPR, or equivalent serologic methods) titer ≥ 4 and a reactive treponemal test (FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods).

Confirmed: a case that meets the clinical description of secondary syphilis (with at least one sign or symptom) that is laboratory confirmed.

Syphilis, early latent (Effective 1/14)

Clinical description

A subcategory of latent syphilis (a stage of infection caused by *T. pallidum* in which organisms persist in the body of the infected person without causing symptoms or signs) when initial infection has occurred within the previous 12 months.

Case classification

Probable: A person with no clinical signs or symptoms of syphilis who has one of the following:

- No past diagnosis of syphilis, and a reactive nontreponemal test (e.g., VDRL, RPR, or equivalent serologic methods), and a reactive treponemal test (e.g., FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods), or
- A current nontreponemal test titer demonstrating fourfold or greater increase from the last nontreponemal test titer

AND evidence of having acquired the infection within the previous 12 months based on one or more of the following criteria:

- Documented seroconversion or fourfold or greater increase in titer of a nontreponemal test during the previous 12 months
- Documented seroconversion of a treponemal test during the previous 12 months
- A history of symptoms consistent with primary or secondary syphilis during the previous 12 months
- A history of sexual exposure to a partner within the previous 12 months who had primary, secondary, or early latent syphilis (documented independently as duration <12 months)
- Only sexual contact was within the last 12 months (sexual debut)

There is no confirmed case classification for early latent syphilis.

Syphilis, late latent (Effective 1/14)

Clinical description

A subcategory of latent syphilis (a stage of infection caused by *T. pallidum* in which organisms persist in the body of the infected person without causing symptoms or signs) when initial infection has occurred >12 months previously.

Case classification

Probable: a person with no clinical signs or symptoms of syphilis who has one of the following:

- No past diagnosis of syphilis, and a reactive nontreponemal test (e.g., VDRL, RPR, or equivalent serologic methods), and a reactive treponemal test (e.g., FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods). or
- A past history of syphilis therapy and a current nontreponemal test titer demonstrating fourfold or greater increase from the last nontreponemal test titer.

AND who has no evidence of having acquired the disease within the preceding 12 months (see Syphilis, early latent).

There is no confirmed case classification for late latent syphilis.

Neurosyphilis (Effective 1/14)

Neurosyphilis can occur at any stage of syphilis. If the patient has neurologic manifestations of syphilis, the case should be reported with the appropriate stage of infection (as if neurologic manifestations were not present) and neurologic manifestations should be noted in the case report data. If no other stage is appropriate, the case should be staged as “late, with clinical manifestations”.

Neurosyphilis can apply to all stages of infection of syphilis listed, including: primary syphilis, secondary syphilis, early latent syphilis, late latent syphilis, and late syphilis with clinical manifestations.

Clinical description

Infection of the central nervous system with *T. pallidum*, as evidenced by manifestations including syphilitic meningitis, meningovascular syphilis, optical involvement including interstitial keratitis and uveitis, general paresis, including dementia, and tabes dorsalis.

Laboratory criteria for diagnosis

A reactive VDRL in cerebrospinal fluid (CSF) and either (1) a reactive treponemal serologic test for syphilis (e.g., FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods) or (2) a reactive nontreponemal serologic test for syphilis (VDRL, RPR, or equivalent serologic method).

Case classification

Probable: syphilis of any stage with a negative VDRL test in CSF specimen and either (1) a reactive treponemal serologic test for syphilis (e.g., FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods) or (2) a reactive non-treponemal serologic test for syphilis (VDRL, RPR, or equivalent serologic method), and both of the following:

- Elevated CSF protein (>50 mg/dL²) or leukocyte count (>5 white blood cells/cubic millimeter CSF) in the absence of other known causes of these abnormalities, and
- Clinical symptoms or signs consistent with neurosyphilis without other known causes for these clinical abnormalities

Confirmed: syphilis of any stage that meets the laboratory criteria for neurosyphilis

Syphilis, late with clinical manifestations (including late benign syphilis and cardiovascular syphilis) (Effective 1/14)

Clinical description

Clinical manifestations of late syphilis may include inflammatory lesions of the cardiovascular system (e.g., aortitis, coronary vessel disease), skin (e.g., gummatous lesions) bone (e.g., osteitis) or other tissue. Rarely, other structures (e.g., the upper and lower respiratory tracts, mouth, eye, abdominal organs, reproductive organs, lymph nodes, and skeletal muscle) may be involved. Late syphilis usually becomes clinically manifest only after a period of 15–30 years of untreated infection. If only neurologic manifestations of syphilis (e.g., tabes dorsalis, dementia) are present and infection occurred more than 12 months ago, the case should be reported as “late syphilis”.

Laboratory criteria for diagnosis

- Demonstration of *T. pallidum* in late lesions by special stains (although organisms are rarely visualized in late lesions), or equivalent methods, or by polymerase chain reaction (PCR) or equivalent direct molecular methods.

Case classification

Probable: characteristic abnormalities or lesions of the cardiovascular system (e.g., aortitis, coronary vessel disease), skin (e.g., gummatous lesions), bone (e.g., osteitis), or other tissue and a reactive treponemal test (e.g., FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods), in the absence of other known causes of these abnormalities. CSF abnormalities and clinical symptoms or signs consistent with neurologic manifestations of syphilis might be present.

Confirmed: a case that meets the clinical description of late syphilis that is laboratory confirmed.

Syphilitic Stillbirth

Clinical description

A fetal death that occurs after a 20-week gestation or in which the fetus weighs >500 g and the mother had untreated or inadequately* treated syphilis at delivery

Comment

For reporting purposes, syphilitic stillbirths should be reported as cases of congenital syphilis.

Syphilis, Congenital (Revised 9/96)

Clinical description

A condition caused by infection in utero with *Treponema pallidum*. A wide spectrum of severity exists, and only severe cases are clinically apparent at birth. An infant or child (aged <2 years) may have signs such as hepatosplenomegaly, rash, condyloma lata, snuffles, jaundice (nonviral hepatitis), pseudoparalysis, anemia, or edema (nephrotic syndrome and/or malnutrition). An older child may have stigmata (e.g., interstitial keratitis, nerve deafness, anterior bowing of shins, frontal bossing, mulberry molars, Hutchinson teeth, saddle nose, rhagades, or Clutton joints).

Laboratory criteria for diagnosis

- Demonstration of *T. pallidum* by darkfield microscopy, fluorescent antibody, or other specific stains in specimens from lesions, placenta, umbilical cord, or autopsy material

Case classification

Probable: a condition affecting an infant whose mother had untreated or inadequately treated* syphilis at delivery, regardless of signs in the infant, or an infant or child who has a reactive treponemal test for syphilis and any one of the following:

- Any evidence of congenital syphilis on physical examination
- Any evidence of congenital syphilis on radiographs of long bones
- A reactive cerebrospinal fluid (CSF) venereal disease research laboratory (VDRL)
- An elevated CSF cell count or protein (without other cause)
- A reactive fluorescent treponemal antibody absorbed—19S-IgM antibody test or IgM enzyme-linked immunosorbent assay

Confirmed: a case that is laboratory confirmed

Comment

Congenital and acquired syphilis may be difficult to distinguish when a child is seropositive after infancy. Signs of congenital syphilis may not be obvious, and stigmata may not yet have developed. Abnormal values for CSF VDRL, cell count, and protein, as well as IgM antibodies, may be found in either congenital or acquired syphilis. Findings on radiographs of long bones may help because radiographic changes in the metaphysis and epiphysis are considered classic signs of congenitally acquired syphilis. The decision may ultimately be based on maternal history and clinical judgment. In a young child, the possibility of sexual abuse should be considered as a cause of acquired rather than congenital syphilis, depending on the clinical picture. For reporting purposes, congenital syphilis includes cases of congenitally acquired syphilis among infants and children as well as syphilitic stillbirths.

* Inadequate treatment consists of any nonpenicillin therapy or penicillin administered < 30 days before delivery.

C2. CASE DEFINITIONS¹ FOR NON-NOTIFIABLE INFECTIOUS DISEASES

C2.1 Genital Herpes (Herpes Simplex Virus) (Revised 9/96)

Clinical description

A condition characterized by visible, painful genital or anal lesions

Laboratory criteria for diagnosis

- Isolation of herpes simplex virus from cervix, urethra, or anogenital lesion, or
- Demonstration of virus by antigen detection technique in clinical specimens from cervix, urethra, or anogenital lesion, or
- Demonstration of multinucleated giant cells on a Tzanck smear of scrapings from an anogenital lesion

Case classification

Probable: a clinically compatible case (in which primary and secondary syphilis have been excluded by appropriate serologic tests and darkfield microscopy, when available) with either a diagnosis of genital herpes based on clinical presentation (without laboratory confirmation) or a history of one or more previous episodes of similar genital lesions

Confirmed: a clinically compatible case that is laboratory confirmed

Comment

Genital herpes should be reported only once per patient. The first diagnosis for a patient with no previous diagnosis should be reported.

C2.2 Genital Warts (Revised 9/96)

Clinical description

An infection characterized by the presence of visible, exophytic (raised) growths on the internal or external genitalia, perineum, or perianal region

Laboratory criteria for diagnosis

- Histopathologic changes characteristic of human papillomavirus infection in specimens obtained by biopsy or exfoliative cytology or
- Demonstration of virus by antigen or nucleic acid detection in a lesion biopsy

Case classification

Probable: a clinically compatible case without histopathologic diagnosis and without microscopic or serologic evidence that the growth is the result of secondary syphilis

Confirmed: a clinically compatible case that is laboratory confirmed

Comment

Genital warts should be reported only once per patient. The first diagnosis for a patient with no previous diagnosis should be reported.

¹ Centers for Disease Control and Prevention. Case definitions for infectious conditions under public health surveillance, 1997. MMWR Morb Mortal Wkly Rep. 1997;46(No. RR-10).

C2.3 Granuloma Inguinale

Clinical description

A slowly progressive ulcerative disease of the skin and lymphatics of the genital and perianal area caused by infection with *Calymmatobacterium granulomatis*. A clinically compatible case would have one or more painless or minimally painful granulomatous lesions in the anogenital area.

Laboratory criteria for diagnosis

- Demonstration of intracytoplasmic Donovan bodies in Wright or Giemsa-stained smears or biopsies of granulation tissue

Case classification

Confirmed: a clinically compatible case that is laboratory confirmed

C2.4 Lymphogranuloma Venereum

Clinical description

Infection with L1, L2, or L3 serovars of *Chlamydia trachomatis* may result in a disease characterized by genital lesions, suppurative regional lymphadenopathy, or hemorrhagic proctitis. The infection is usually sexually transmitted.

Laboratory criteria for diagnosis

- Isolation of *C. trachomatis*, serotype L1, L2, or L3 from clinical specimen, or
- Demonstration by immunofluorescence of inclusion bodies in leukocytes of an inguinal lymph node (bubo) aspirate, or
- Positive microimmunofluorescent serologic test for a lymphogranuloma venereum strain of *C. trachomatis*

Case classification

Probable: a clinically compatible case with one or more tender fluctuant inguinal lymph nodes or characteristic proctogenital lesions with supportive laboratory findings of a single *C. trachomatis* complement fixation titer of >64

Confirmed: a clinically compatible case that is laboratory confirmed

C2.5 Mucopurulent Cervicitis (Revised 9/96)

Clinical description

Cervical inflammation that is not the result of infection with *Neisseria gonorrhoeae* or *Trichomonas vaginalis*. Cervical inflammation is defined by the presence of one of the following criteria:

- Mucopurulent secretion (from the endocervix) that is yellow or green when viewed on a white, cotton-tipped swab (positive swab test)
- Induced endocervical bleeding (bleeding when the first swab is placed in the endocervix)

Laboratory criteria for diagnosis

No evidence of *N. gonorrhoeae* by culture, Gram stain, or antigen or nucleic acid detection, and no evidence of *T. vaginalis* on wet mount

Case classification

Confirmed: a clinically compatible case in a female who does not have either gonorrhea or trichomoniasis

Comment

Mucopurulent cervicitis (MPC) is a clinical diagnosis of exclusion. The syndrome may result from infection with any of several agents (see *Chlamydia trachomatis*). If gonorrhea, trichomoniasis, and chlamydia are excluded, a clinically compatible illness should be classified as MPC. An illness in a female that meets the case definition of MPC and *C. trachomatis* infection should be classified as chlamydia.

C2.6 Nongonococcal Urethritis (Revised 9/96)

Clinical description

Urethral inflammation that is not the result of infection with *Neisseria gonorrhoeae*. Urethral inflammation may be diagnosed by the presence of one of the following criteria:

- A visible abnormal urethral discharge, or
- A positive leukocyte esterase test from a male aged <60 years who does not have a history of kidney disease or bladder infection, prostate enlargement, urogenital anatomic anomaly, or recent urinary tract instrumentation, or
- Microscopic evidence of urethritis (≥ 5 white blood cells per high-power field) on a Gram stain of a urethral smear

Laboratory criteria for diagnosis

- No evidence of *N. gonorrhoeae* infection by culture, Gram stain, or antigen or nucleic acid detection

Case classification

Confirmed: a clinically compatible case in a male in whom gonorrhea is not found, either by culture, Gram stain, or antigen or nucleic acid detection

Comment

Nongonococcal urethritis (NGU) is a clinical diagnosis of exclusion. The syndrome may result from infection with any of several agents (see *Chlamydia trachomatis*). If gonorrhea and chlamydia are excluded, a clinically compatible illness should be classified as NGU. An illness in a male that meets the case definition of NGU and *C. trachomatis* infection should be classified as chlamydia.

C2.7 Pelvic Inflammatory Disease (Revised 9/96)

Clinical case definition

A clinical syndrome resulting from the ascending spread of microorganisms from the vagina and endocervix to the endometrium, fallopian tubes, and/or contiguous structures. In a female who has lower abdominal pain and who has not been diagnosed as having an established cause other than pelvic inflammatory disease (PID) (e.g., ectopic pregnancy, acute appendicitis, and functional pain), all the following clinical criteria must be present:

- Lower abdominal tenderness, and
- Tenderness with motion of the cervix, and
- Adnexal tenderness

In addition to the preceding criteria, at least one of the following findings must also be present:

- Meets the surveillance case definition of *C. trachomatis* infection or gonorrhea
- Temperature >100.4 F (>38.0 C)
- Leukocytosis >10,000 white blood cells/mm³
- Purulent material in the peritoneal cavity obtained by culdocentesis or laparoscopy
- Pelvic abscess or inflammatory complex detected by bimanual examination or by sonography
- Patient is a sexual contact of a person known to have gonorrhea, chlamydia, or nongonococcal urethritis

Case classification

Confirmed: a case that meets the clinical case definition

Comment

For reporting purposes, a clinician's report of PID should be counted as a case.

Contributors

We gratefully acknowledge the contributions of state STD project directors, STD program managers, state and territorial epidemiologists, and laboratory directors. The persons listed were in the positions shown as of September 15, 2015.

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| Arizona | Roxanne Ereth | Roxanne Ereth | Kenneth Komatsu | Victor Waddell |
| Arkansas | Vacant | Brandi Roberts | Dirk Haselow | Glen Baker |
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| San Francisco | Trang Nguyen | Nora Macias | Gilberto Chavez | Severin Gose (Acting) |
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| District of Columbia | Michael Kharfen | Michael Kharfen | John Davies-Cole | Morris Blaylock (Acting) |
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| Chicago | Vacant | Vacant | Constance Austin | Massimo Pacilli |
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| Mississippi | Nicholas Mosca | David Peyton | Thomas Dobbs | Daphne Ware |
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