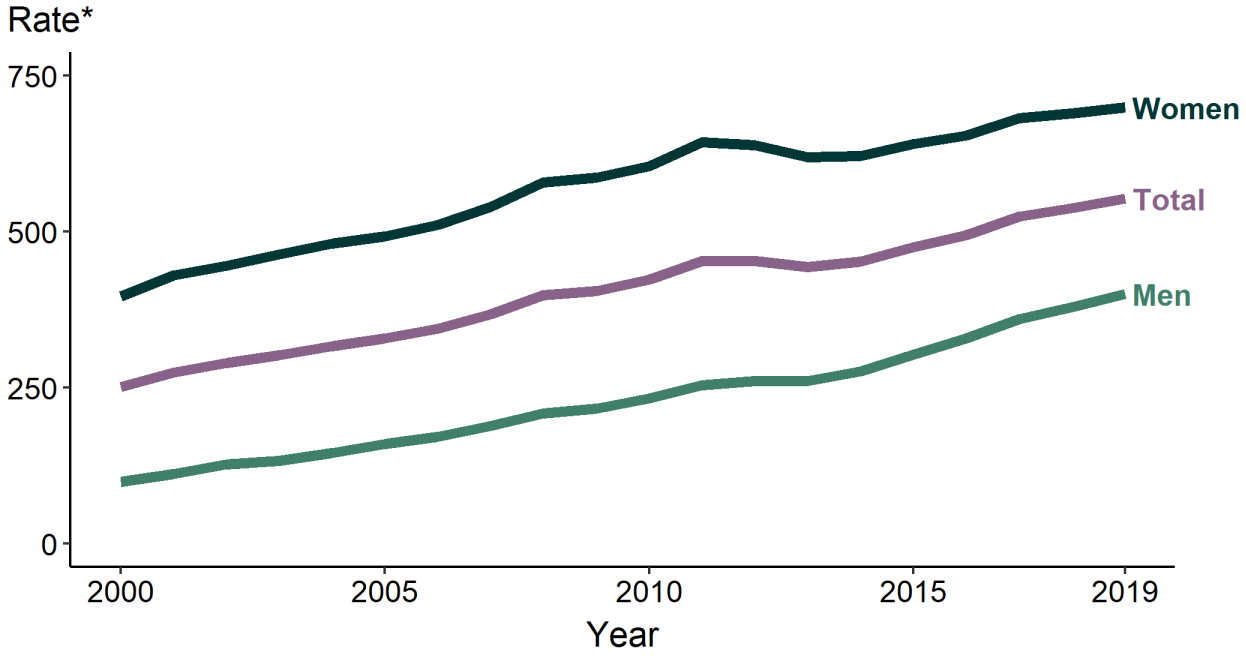
Sexually Transmitted Disease

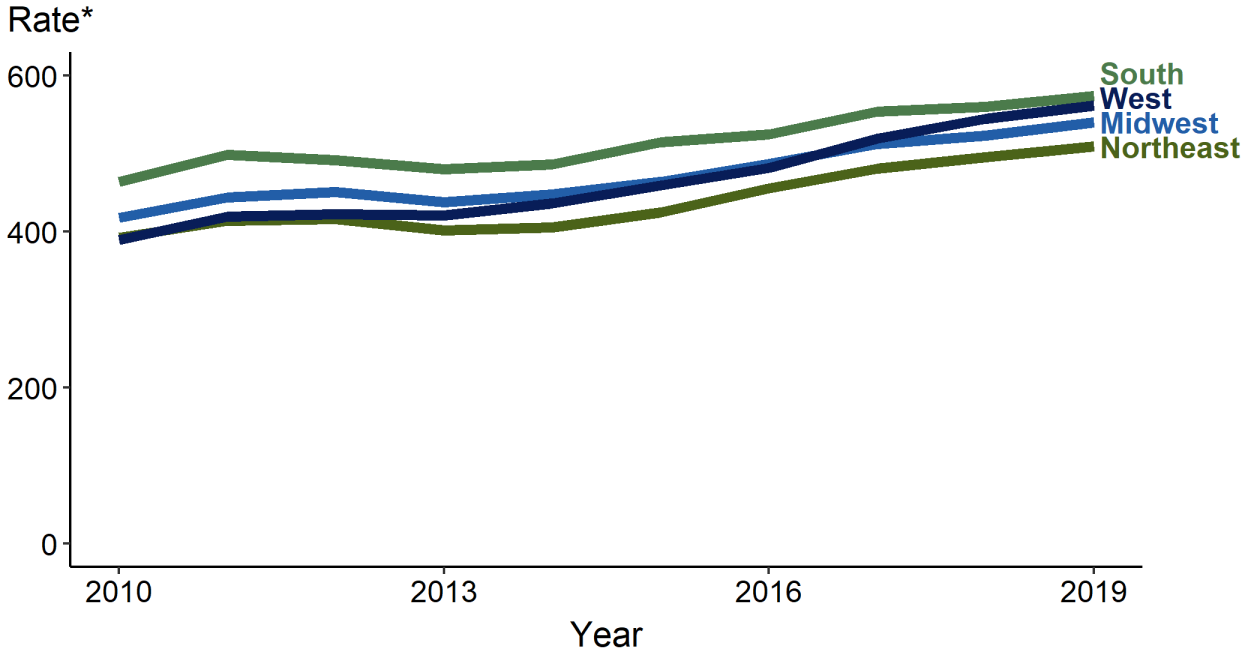
Surveillance 2019

Chlamydia — Rates of Reported Cases by Sex, United States, 2000–2019



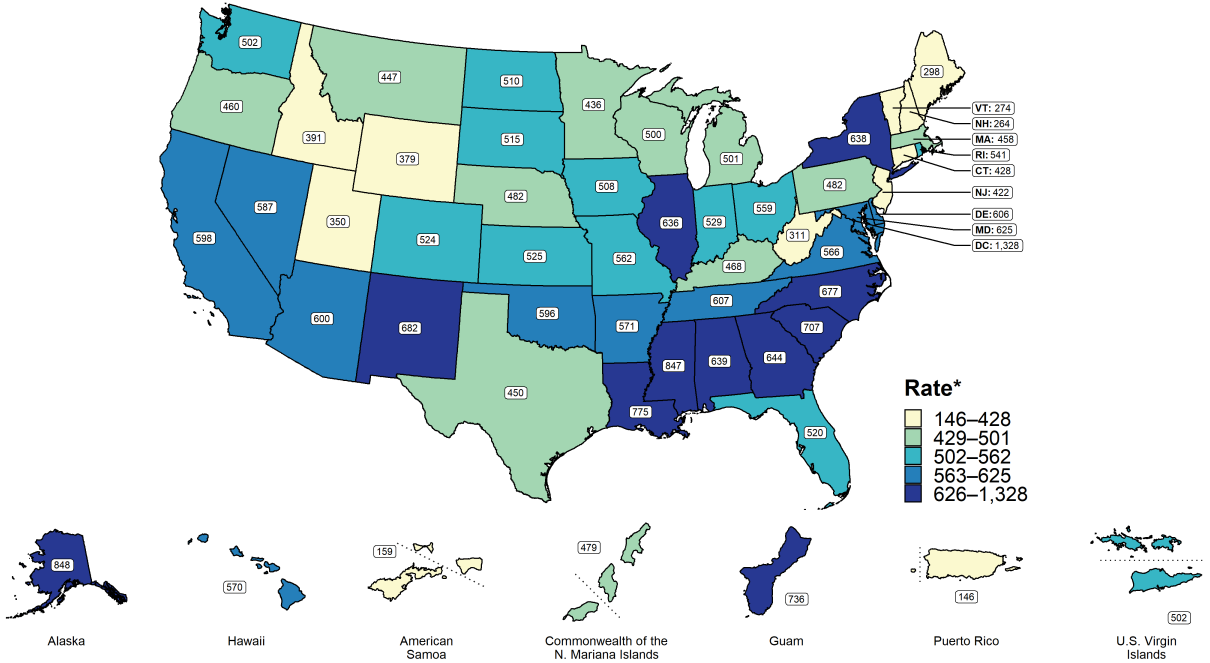
* Per 100,000

Chlamydia — Rates of Reported Cases by Region, United States, 2010–2019



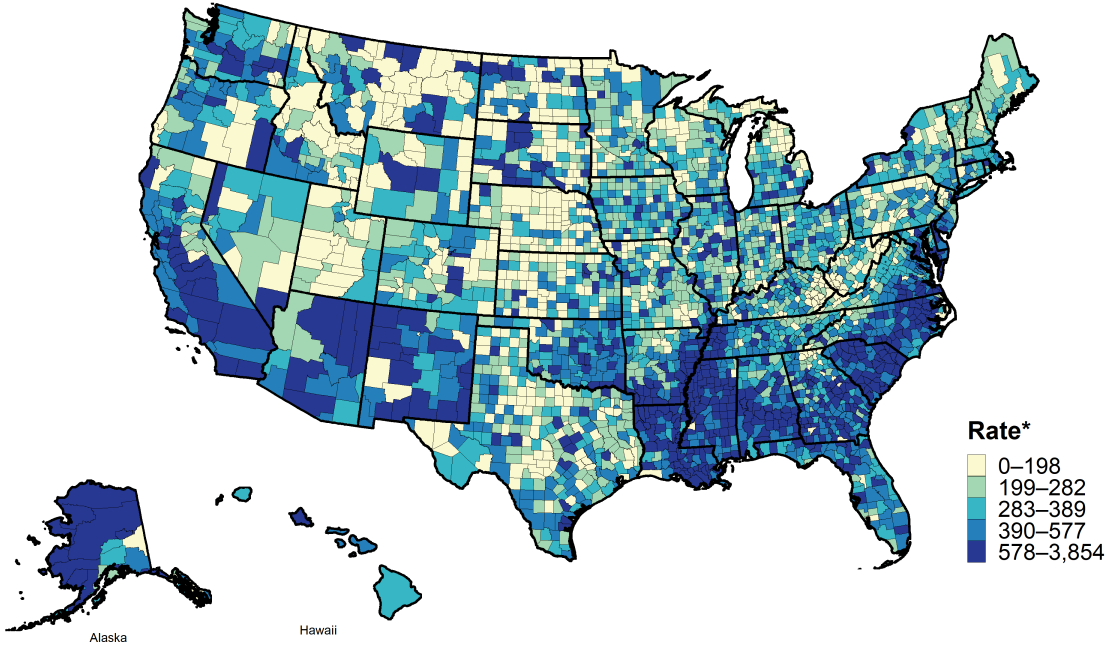
* Per 100,000

Chlamydia — Rates of Reported Cases by State, United States and Territories, 2019



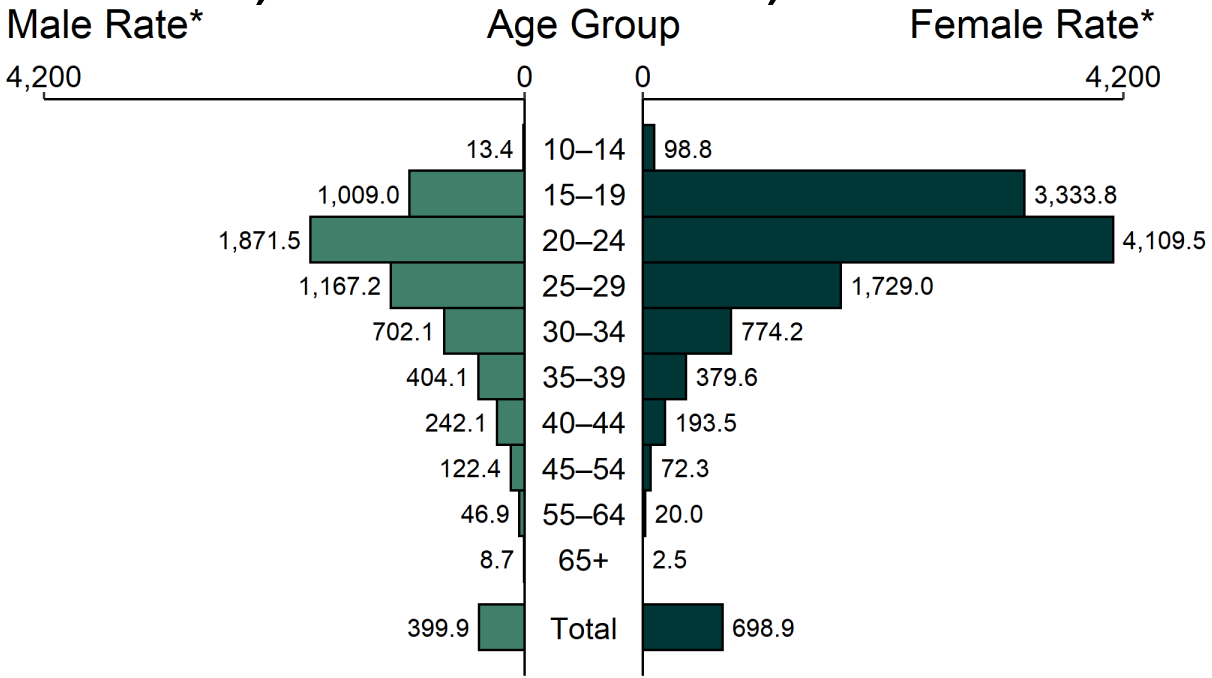
* Per 100,000

Chlamydia — Rates of Reported Cases by County, United States, 2019



* Per 100,000

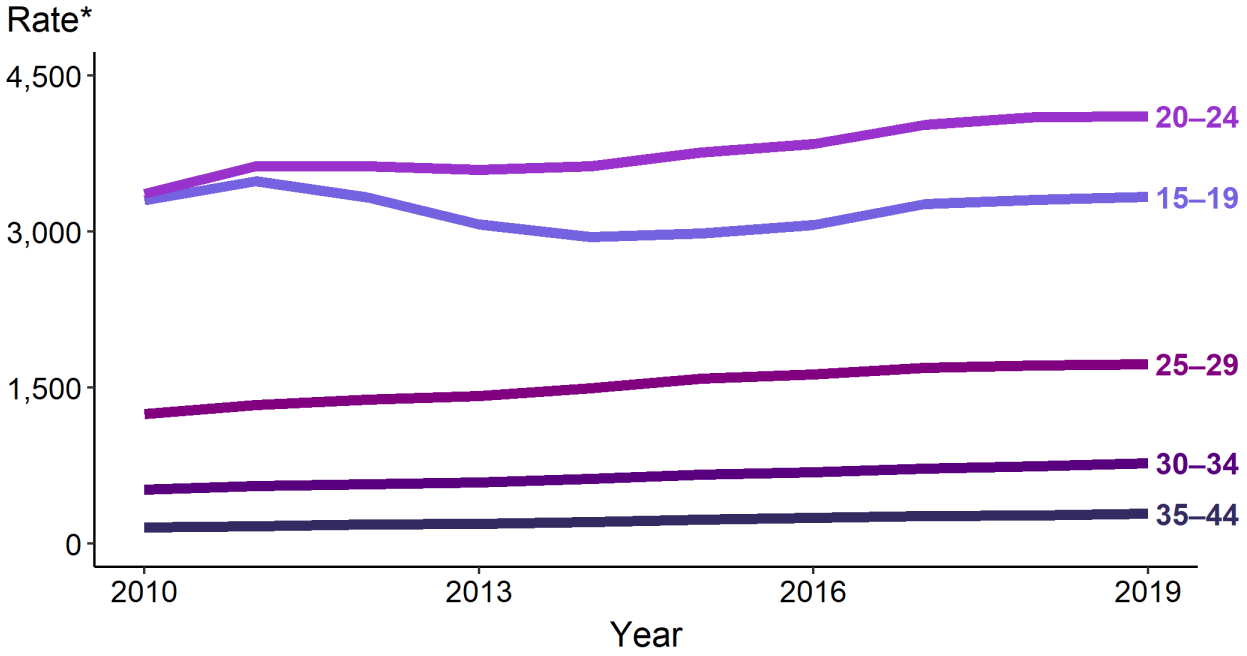
Chlamydia — Rates of Reported Cases by Age Group and Sex, United States, 2019



* Per 100,000

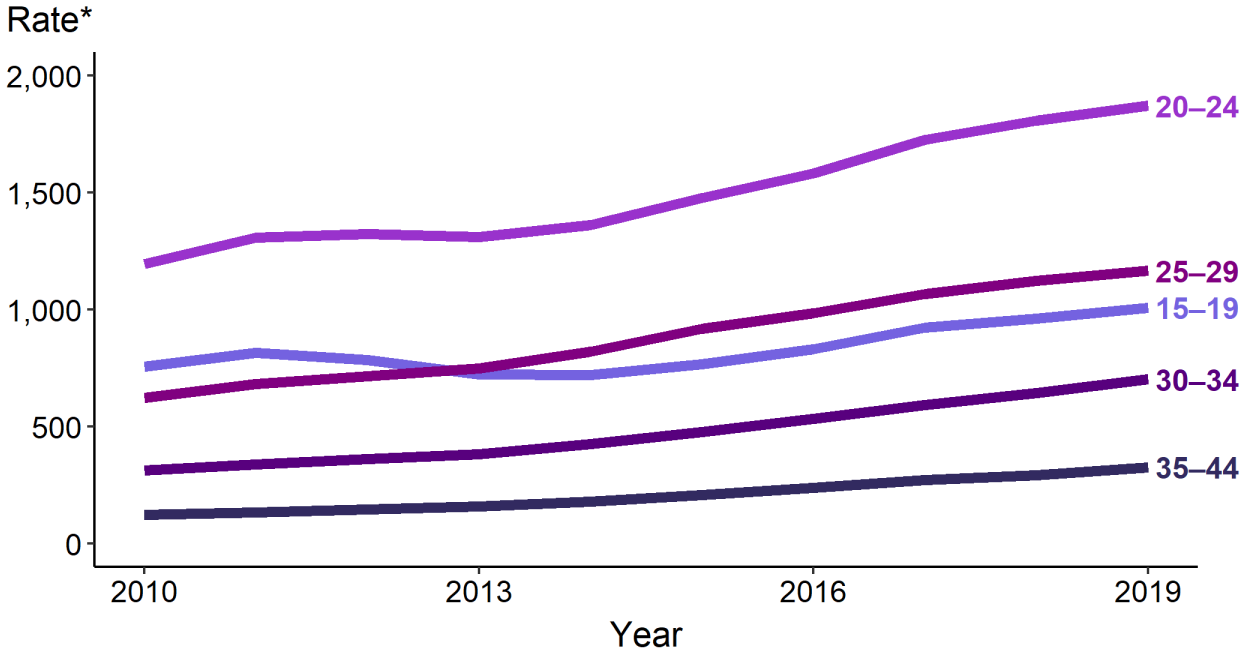
NOTE: Total includes all ages.

Chlamydia — Rates of Reported Cases Among Females Aged 15–44 Years by Age Group, United



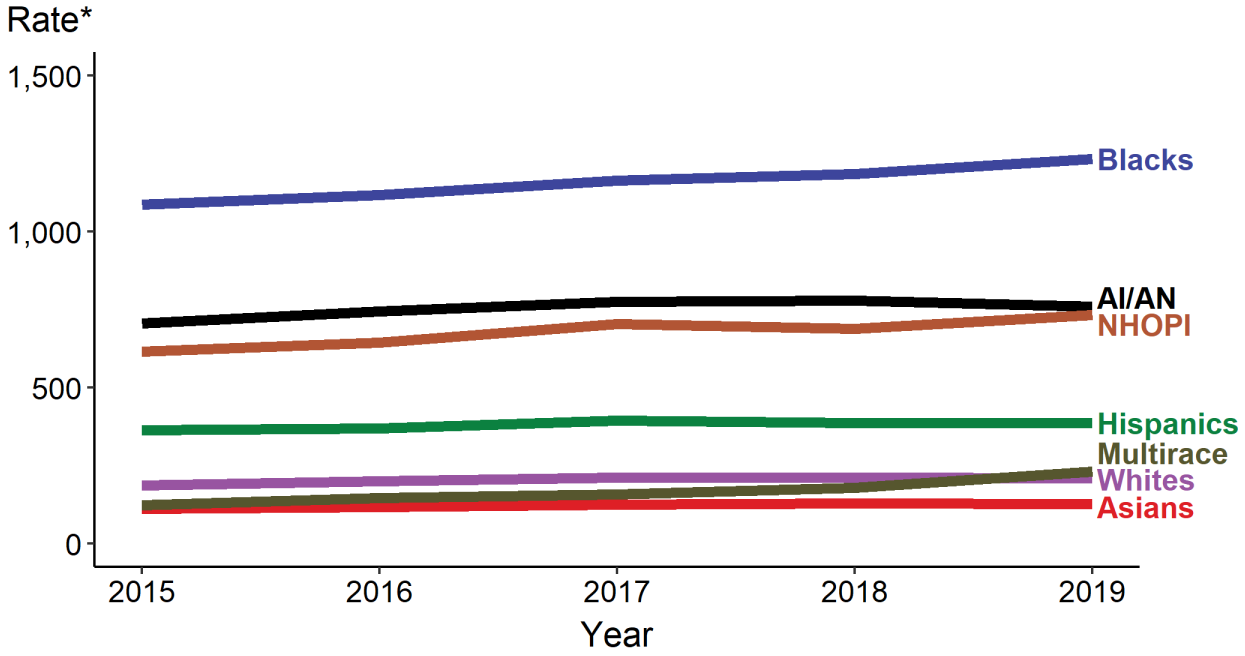
* Per 100,000

Chlamydia — Rates of Reported Cases Among Males Aged 15–44 Years by Age Group, United States



* Per 100,000

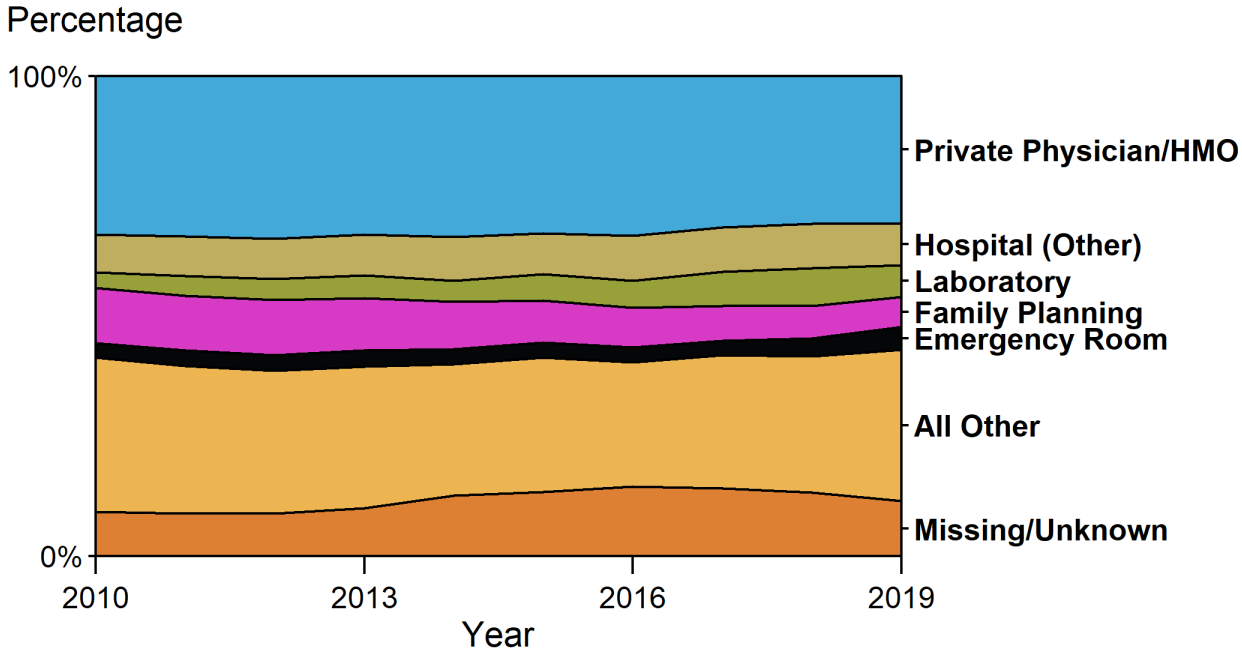
Chlamydia — Rates of Reported Cases by Race/Hispanic Ethnicity, United States, 2015–2019



* Per 100,000

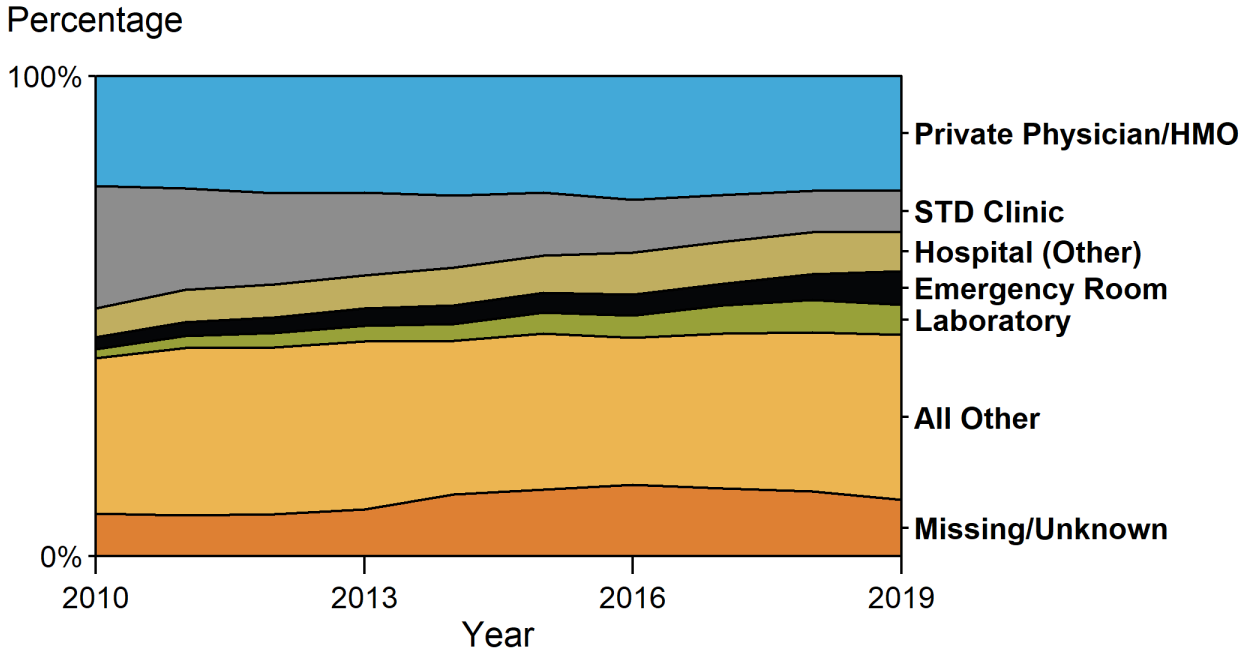
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Chlamydia — Percentage of Reported Cases Among Females by Reporting Source, United States



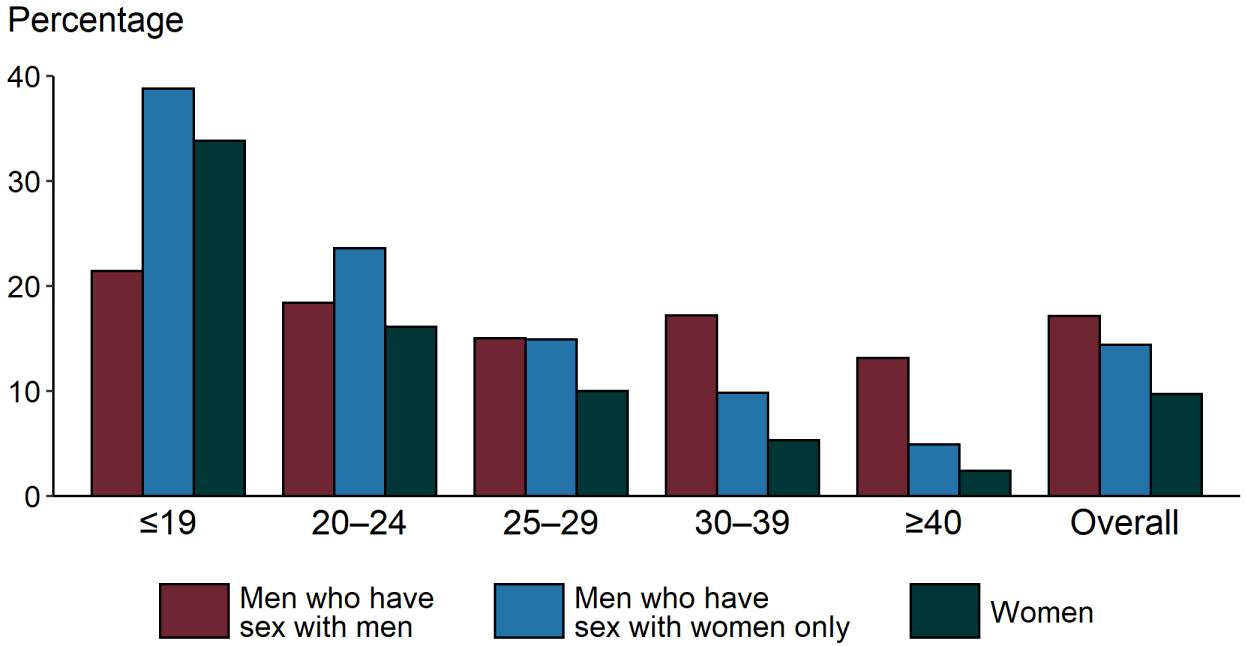
ACRONYMS: HMO = health maintenance organization

Chlamydia — Percentage of Reported Cases Among Males by Reporting Source, United States



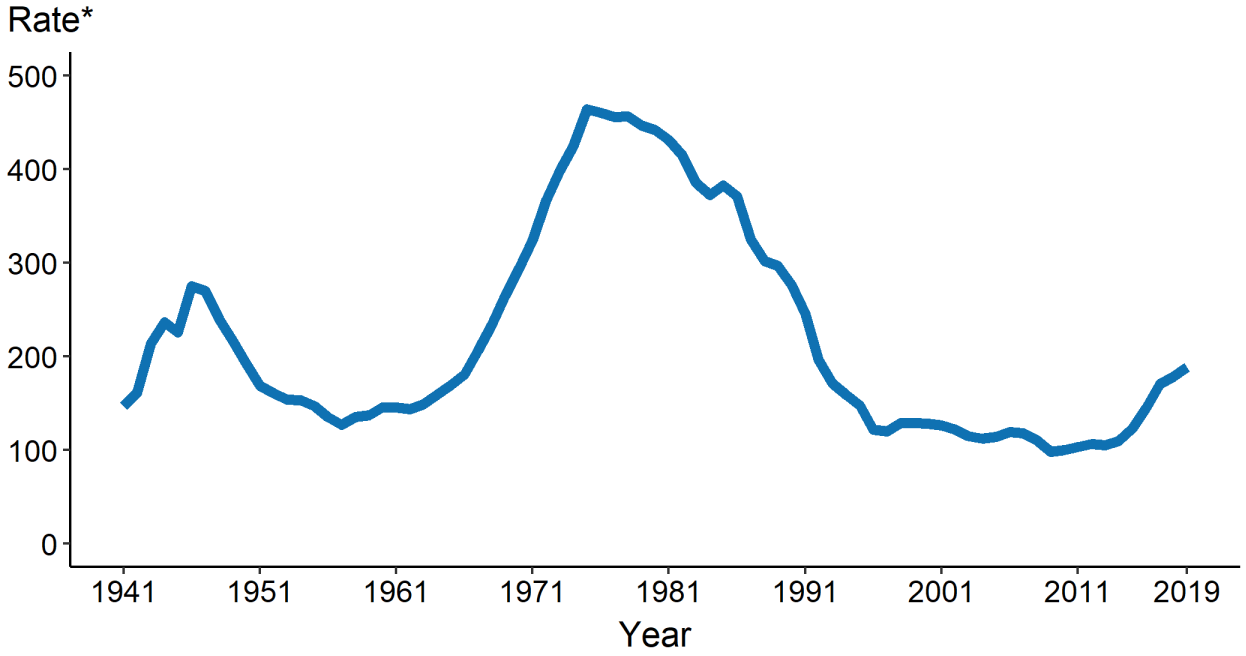
ACRONYMS: HMO = health maintenance organization

Chlamydia — Proportion of STD Clinic Patients Testing Positive by Age Group, Sex, and Sex of Sex Partners, STD Surveillance Network (SSuN), 2019



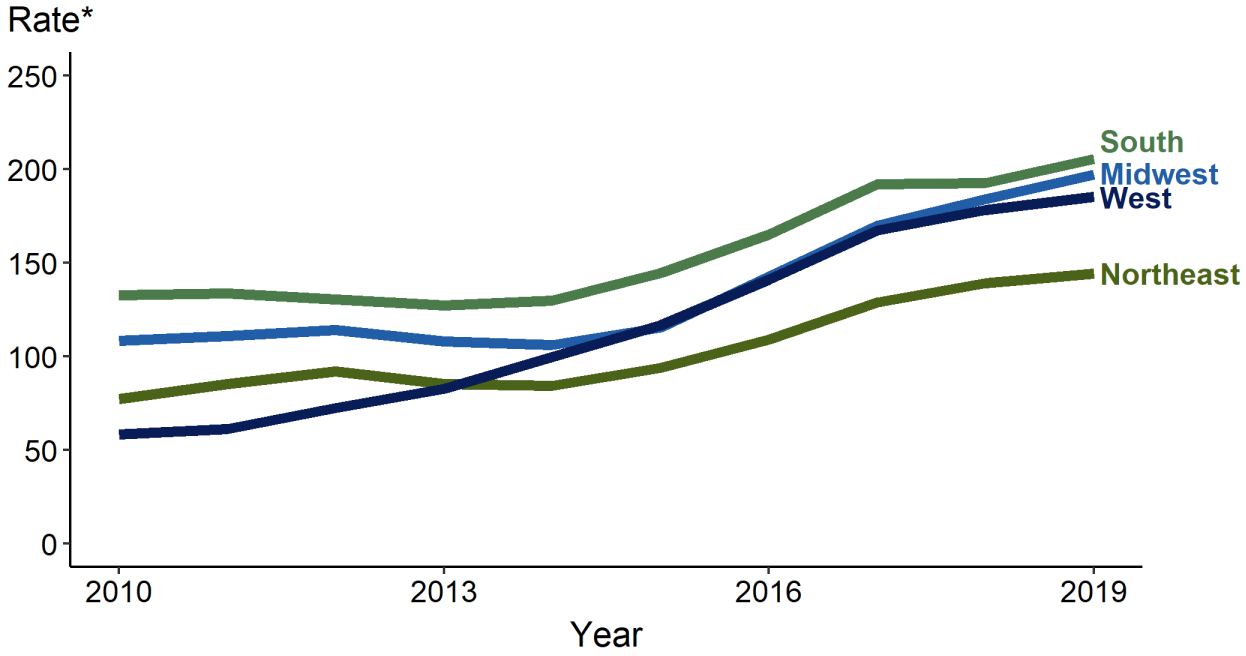
NOTE: Results are based on unique patients with known sex of sex partners (n=89,448) attending SSuN STD clinics who were tested ≥1 time for chlamydia in 2019

Gonorrhea — Rates of Reported Cases by Year, United States, 1941–2019



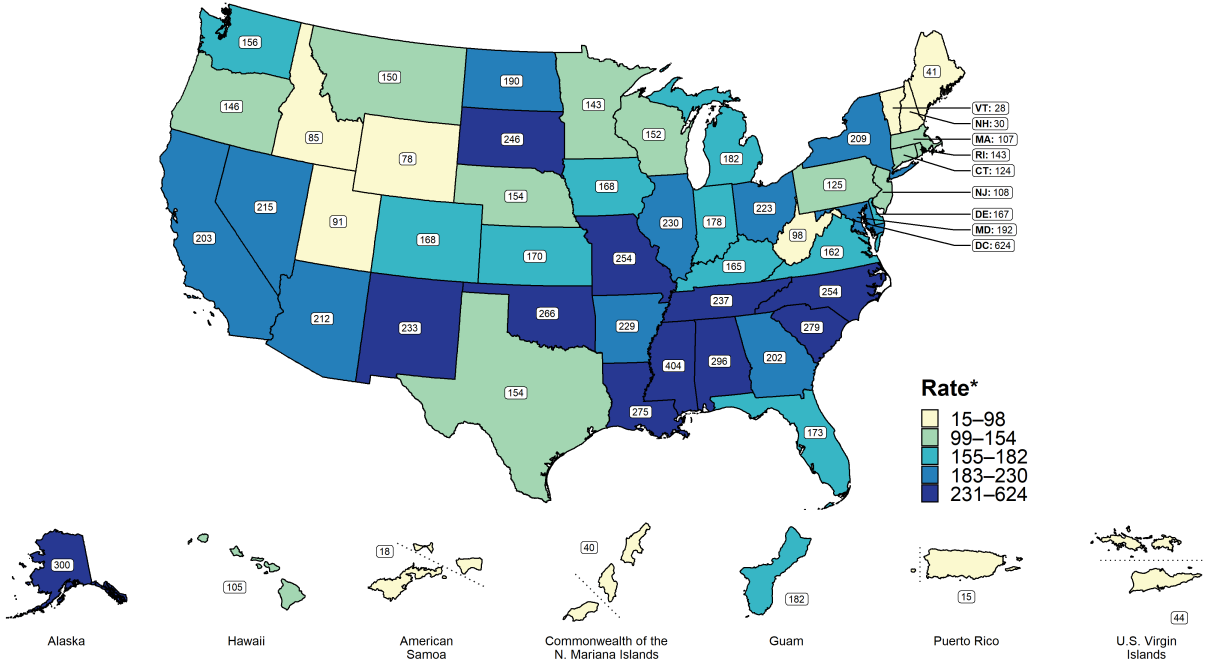
* Per 100,000

Gonorrhea — Rates of Reported Cases by Region, United States, 2010–2019



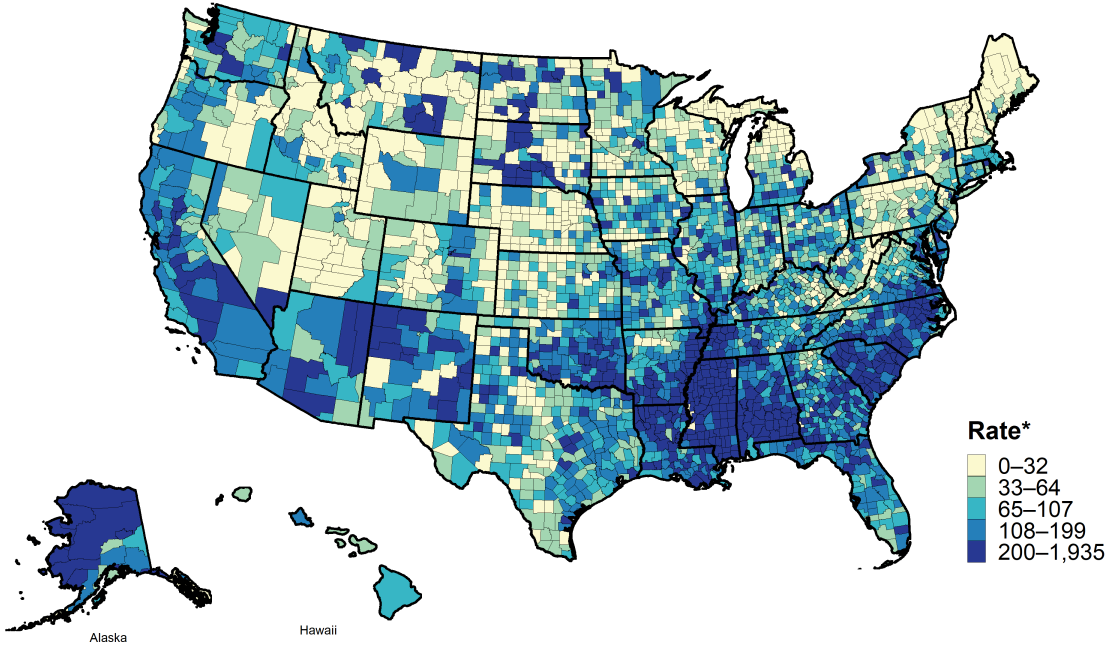
* Per 100,000

Gonorrhea — Rates of Reported Cases by State, United States and Territories, 2019



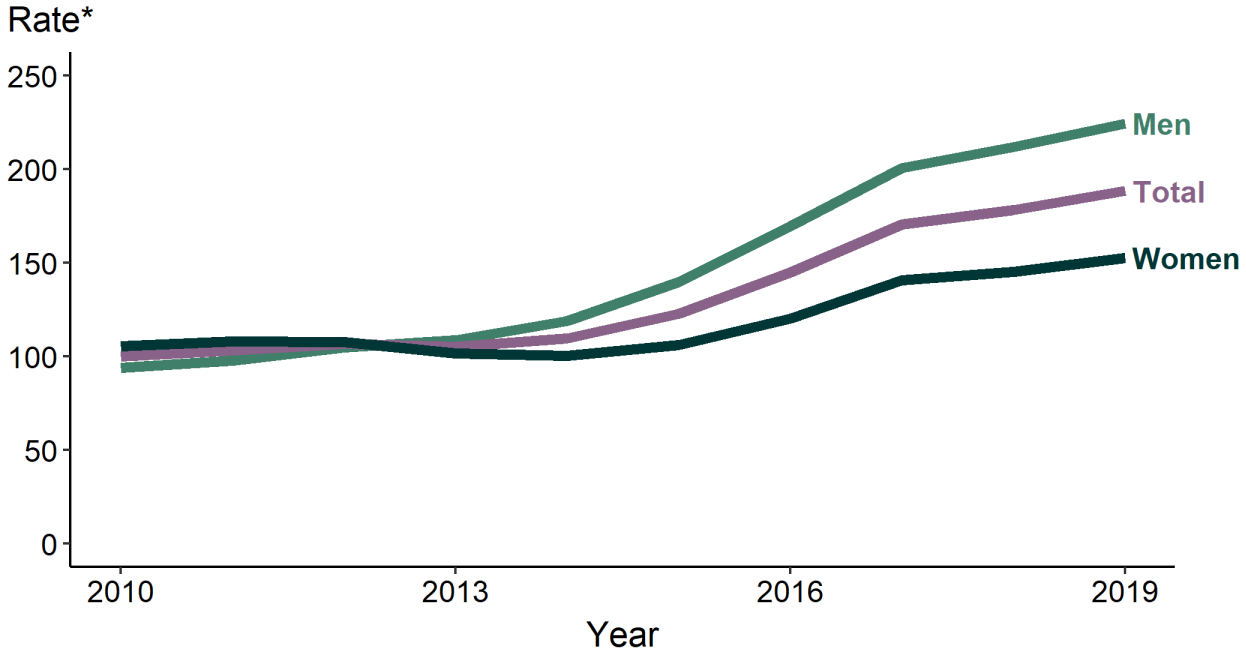
* Per 100,000

Gonorrhea — Rates of Reported Cases by County, United States, 2019



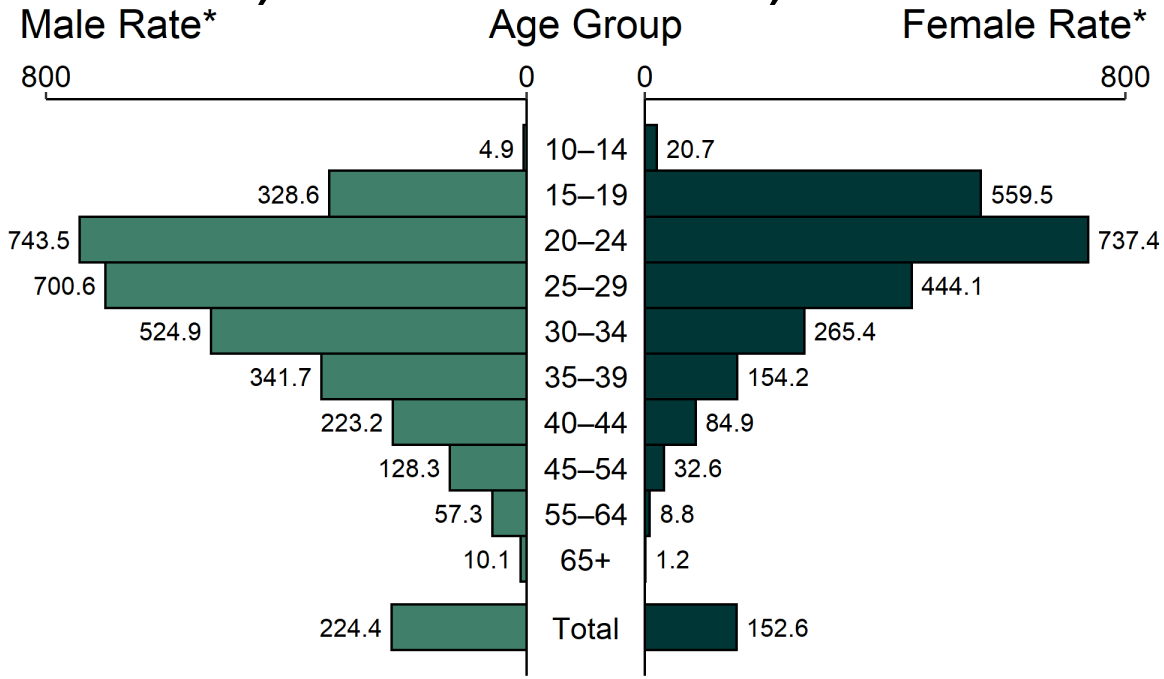
* Per 100,000

Gonorrhea — Rates of Reported Cases by Sex, United States, 2010–2019



* Per 100,000

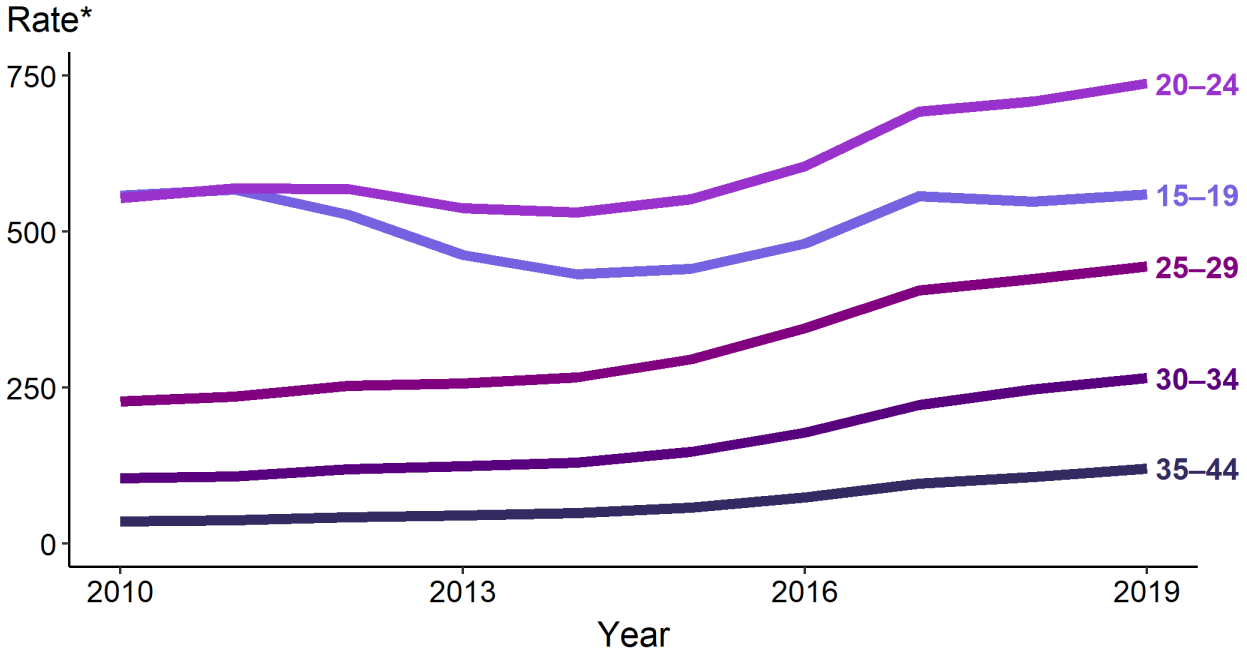
Gonorrhea — Rates of Reported Cases by Age Group and Sex, United States, 2019



* Per 100,000

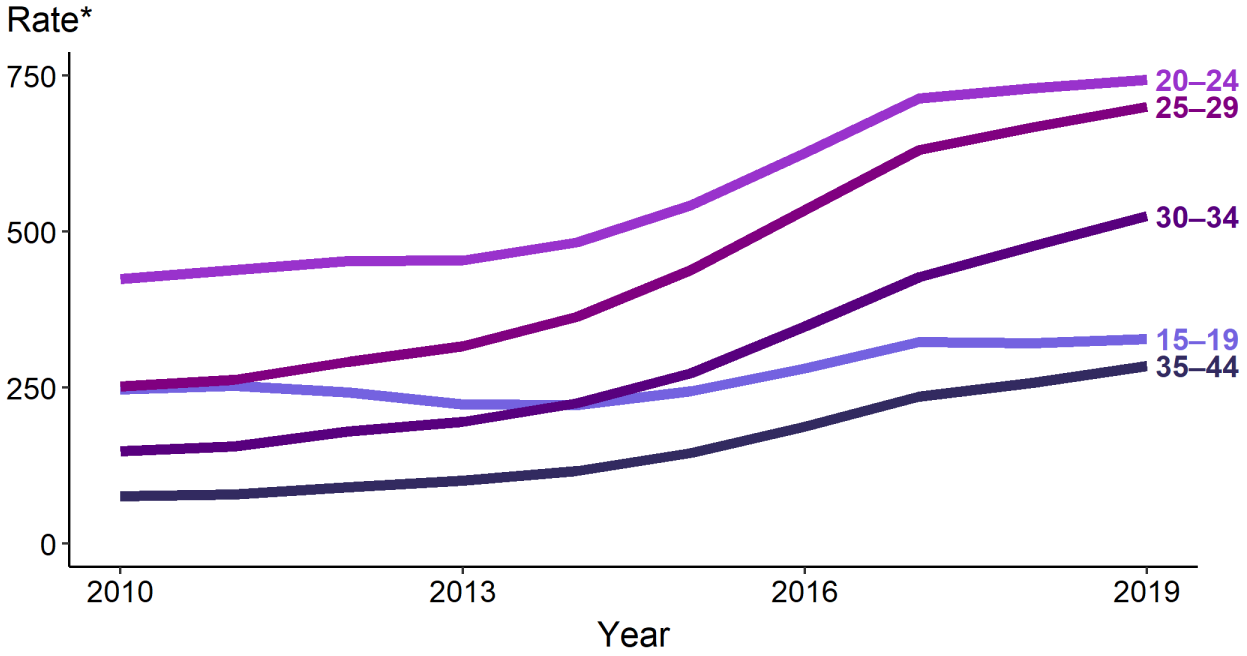
NOTE: Total includes all ages.

Gonorrhea — Rates of Reported Cases Among Females Aged 15–44 Years by Age Group, Unitec



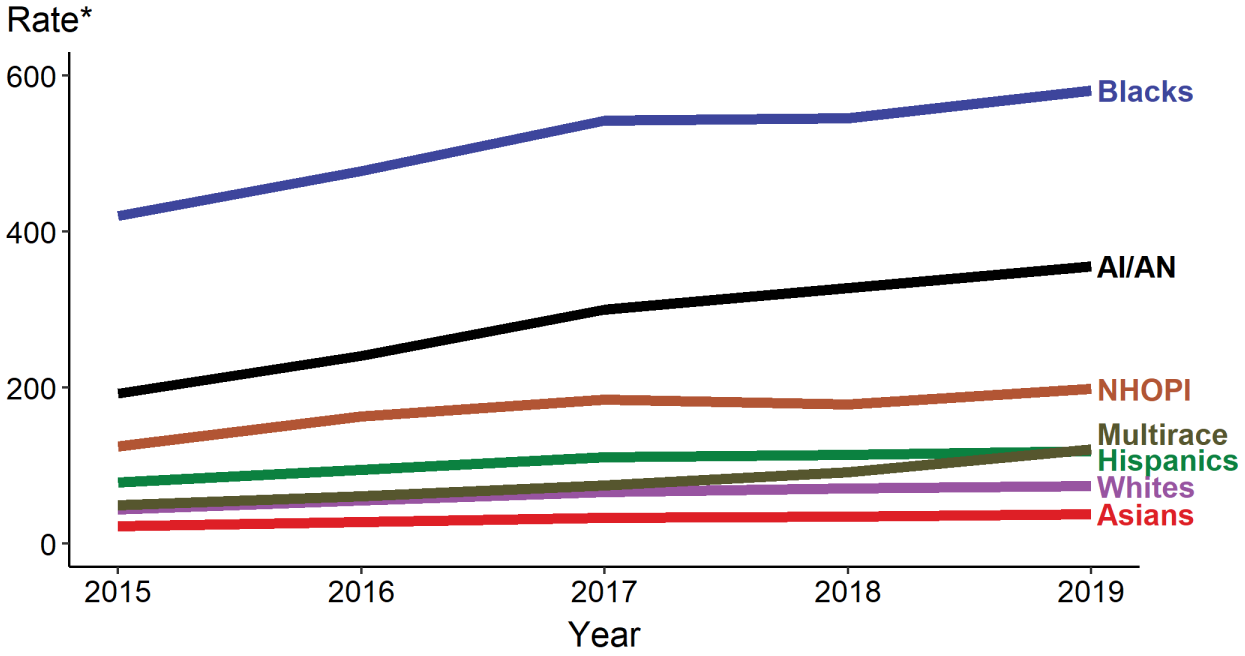
* Per 100,000

Gonorrhea — Rates of Reported Cases Among Males Aged 15–44 Years by Age Group, United States



* Per 100,000

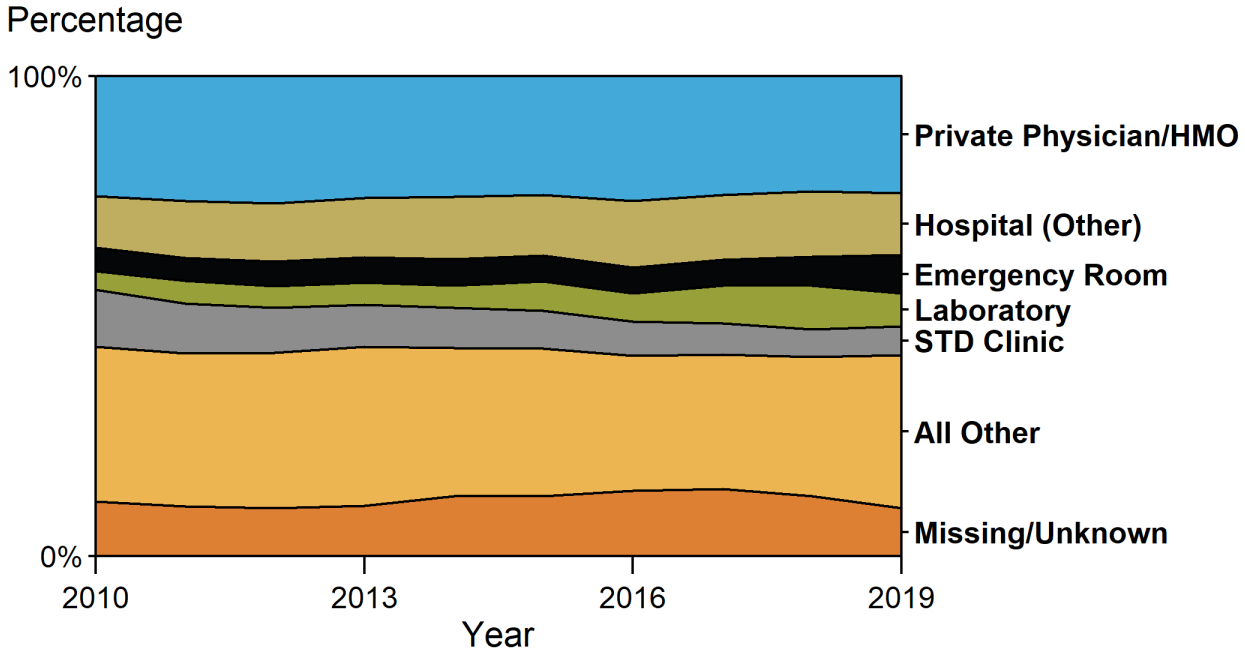
Gonorrhea — Rates of Reported Cases by Race/Hispanic Ethnicity, United States, 2015–2019



* Per 100,000

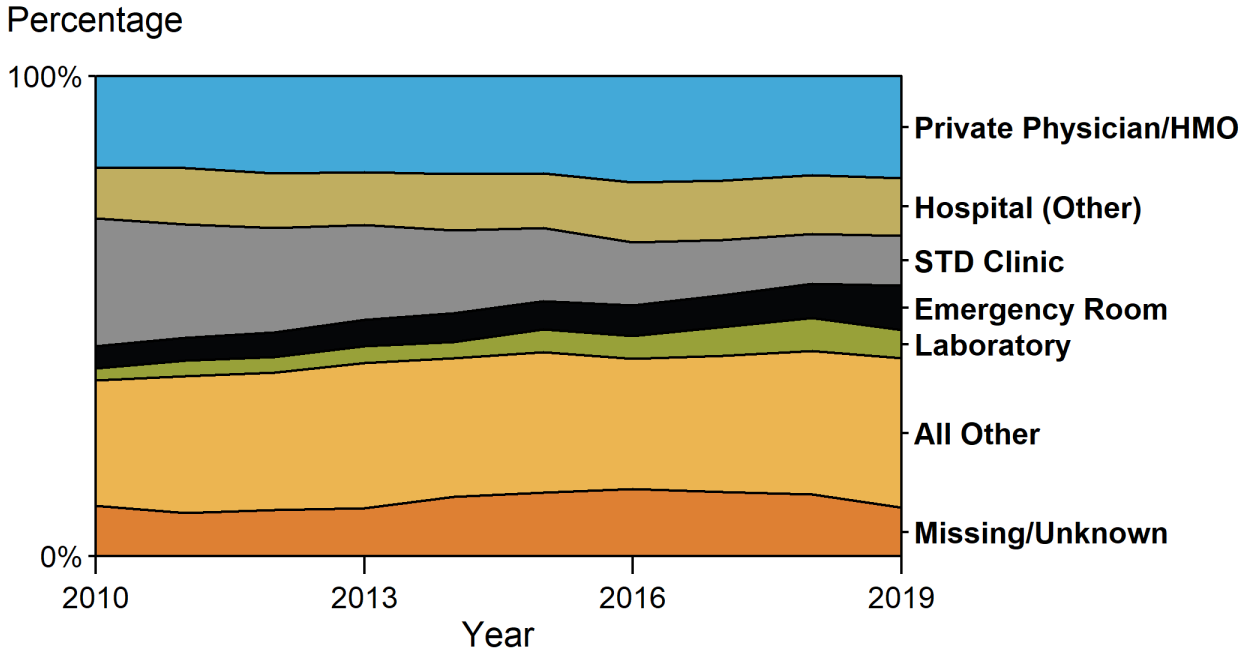
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Gonorrhea — Percentage of Reported Cases Among Females by Reporting Source, United States



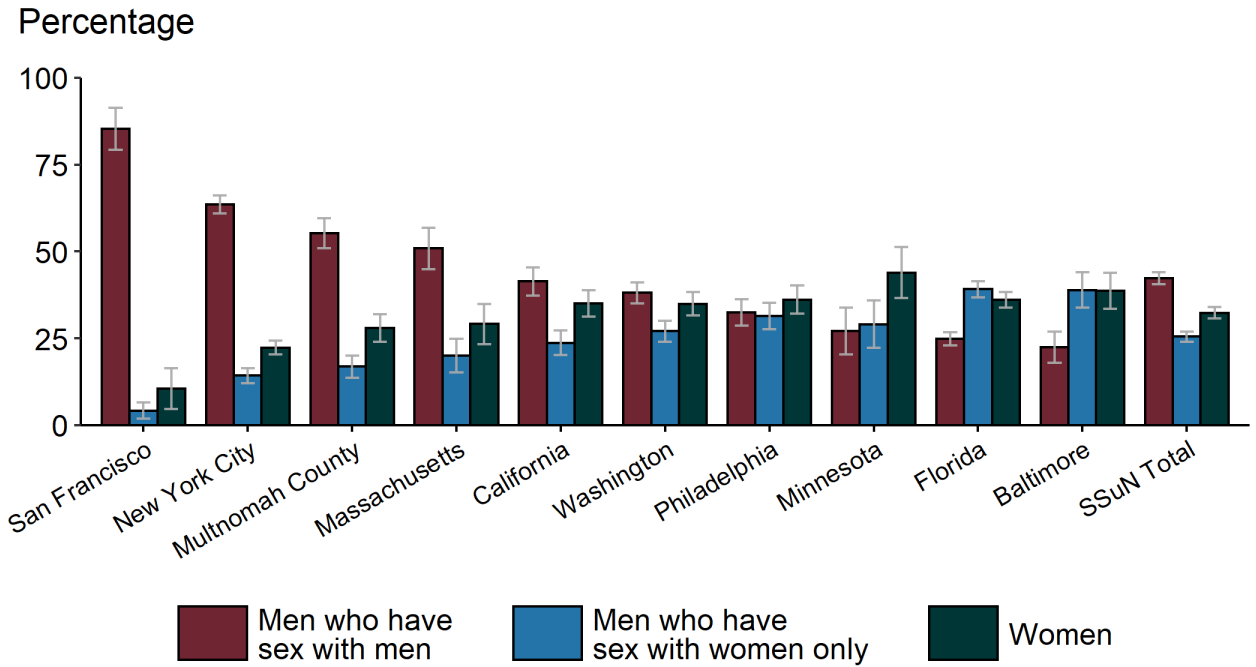
ACRONYMS: HMO = health maintenance organization

Gonorrhea — Percentage of Reported Cases Among Males by Reporting Source, United States



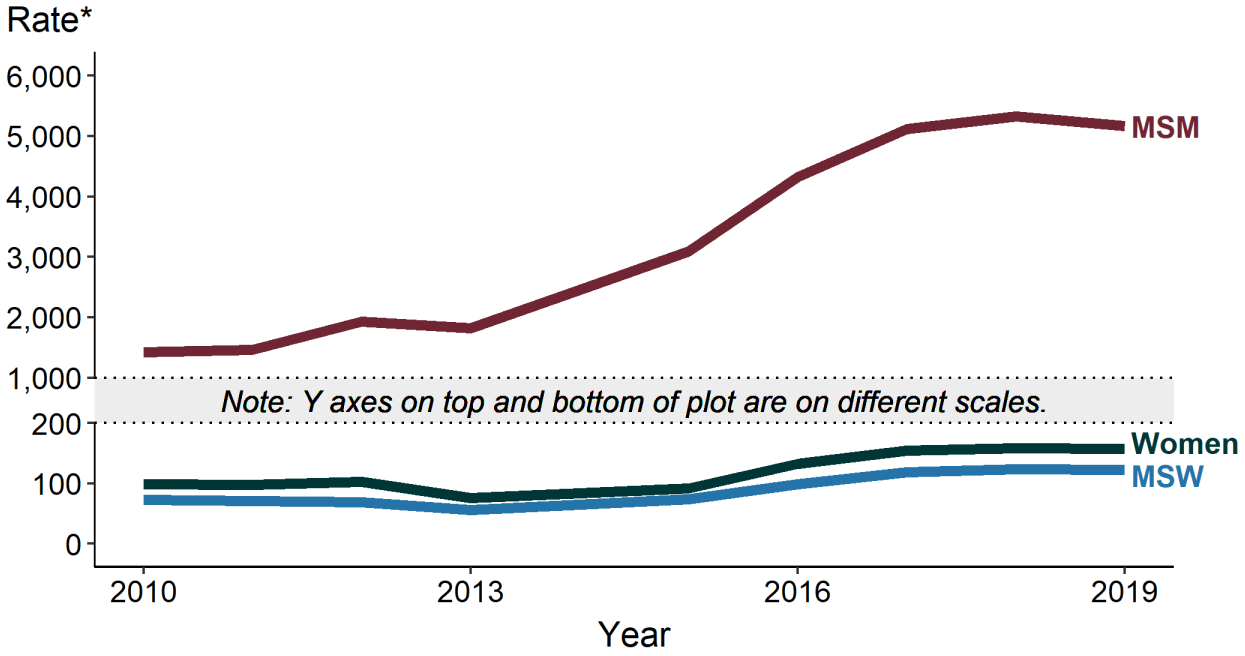
ACRONYMS: HMO = health maintenance organization

Gonorrhea – Estimated Proportion of Cases Treated with Recommended Regimen by Jurisdiction, STD Surveillance Network (SSuN), 2019



NOTE: Estimate based on weighted analysis of data obtained from interviews (n= 7,044) conducted among a random sample of reported gonorrhea cases. California

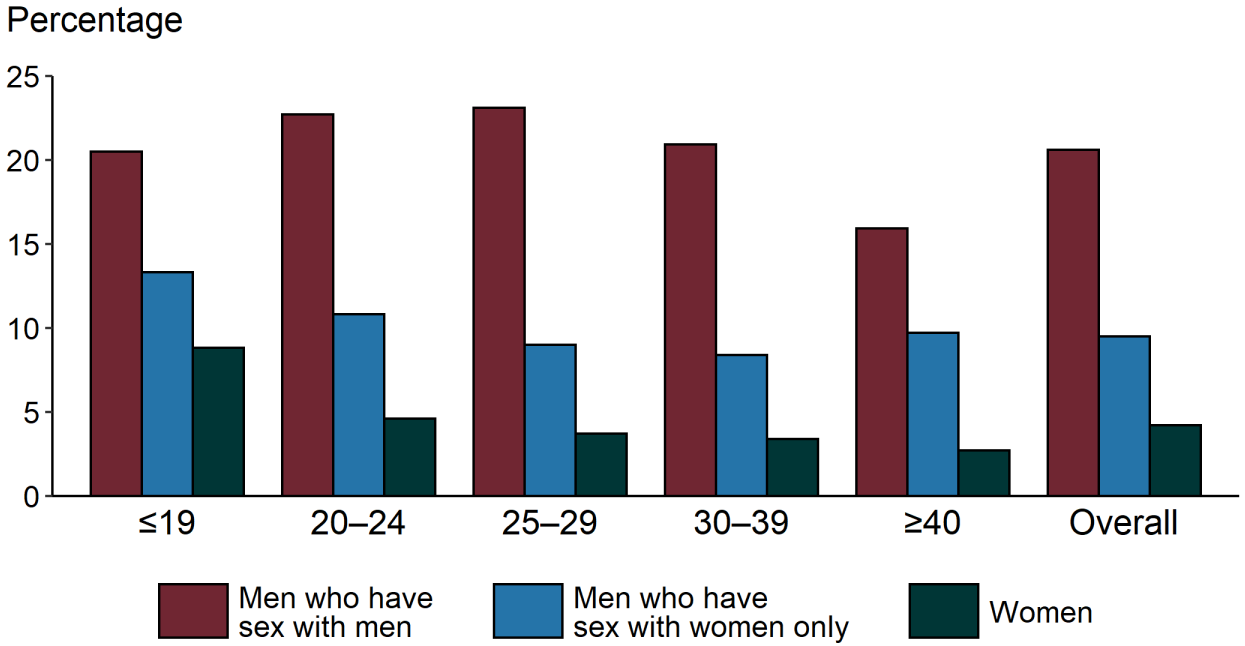
Gonorrhea — Estimated Rates of Reported Gonorrhea Cases by MSM, MSW, and Women, STD Surveillance Network (SSuN), 2010–2019



* Per 100,000 population

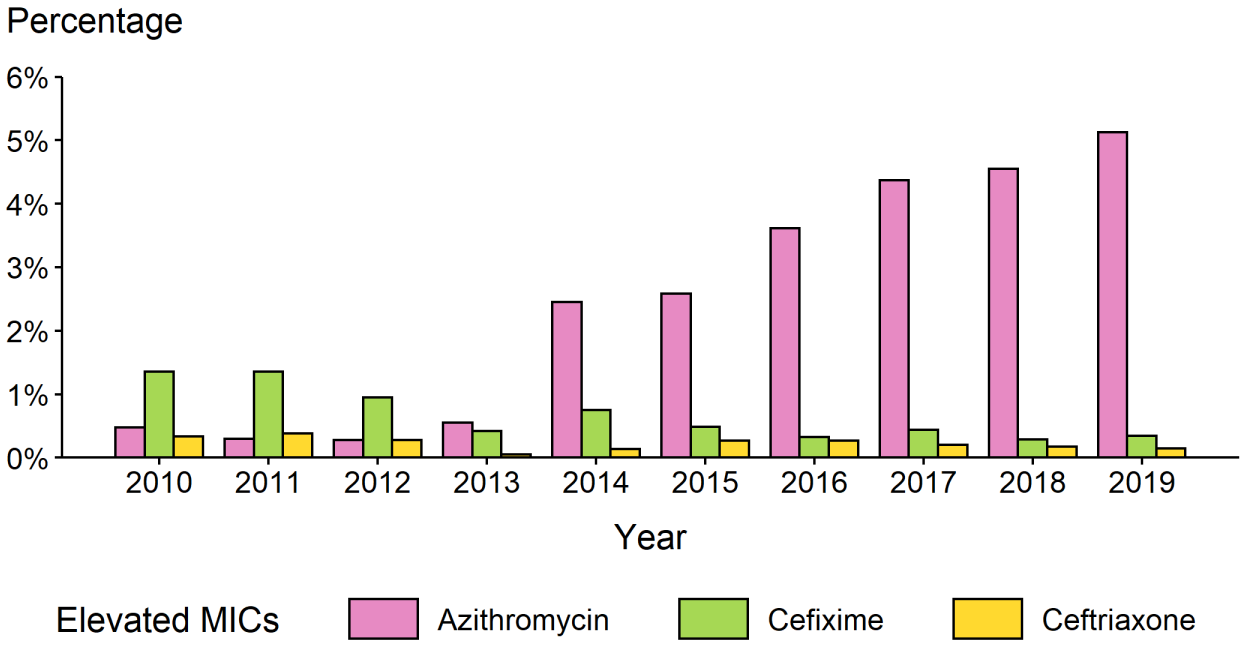
NOTE: Estimate based on weighted analysis of data

Gonorrhea — Proportion of STD Clinic Patients Testing Positive by Age Group, Sex, and Sex of Sex Partners, STD Surveillance Network (SSuN), 2019



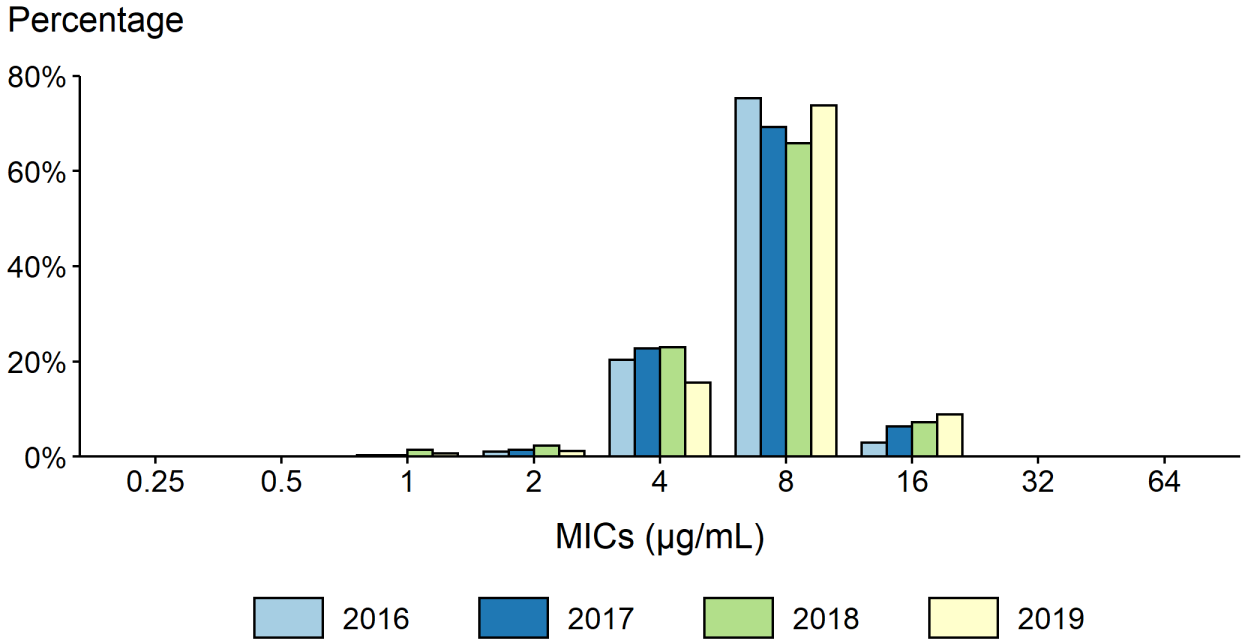
NOTE: Results are based on data obtained from unique patients with known sex of sex partners (n=81,812) attending SSuN STD clinics who were tested ≥1 times for

Neisseria gonorrhoeae — Percentage of Isolates with Elevated Minimum Inhibitory Concentrations (MICs) to Azithromycin, Cefixime, and Ceftriaxone, Gonococcal Isolate Surveillance Project (GISP), 2010–2019



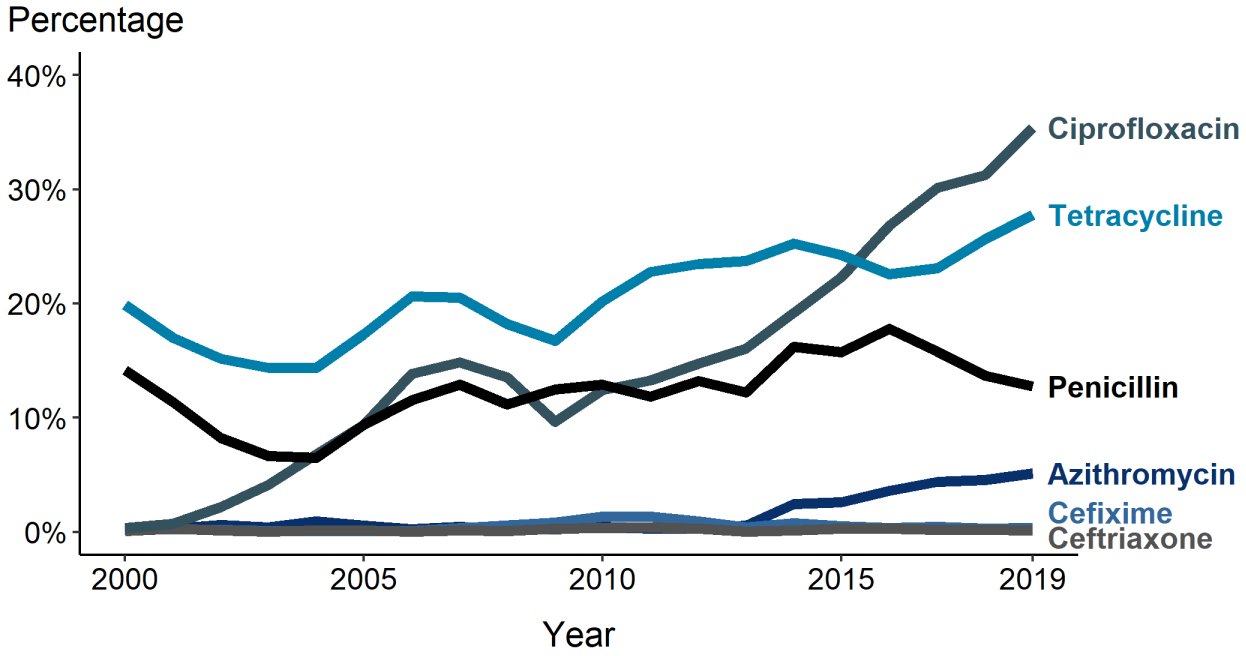
NOTE: Elevated MIC = Azithromycin: ≥ 2.0 µg/mL; Cefixime: ≥ 0.25 µg/mL; Ceftriaxone: ≥ 0.125 µg/mL

Neisseria gonorrhoeae — Distribution of Gentamicin Minimum Inhibitory Concentrations (MICs) by Year, Gonococcal Isolate Surveillance Project (GISP), 2016–2019



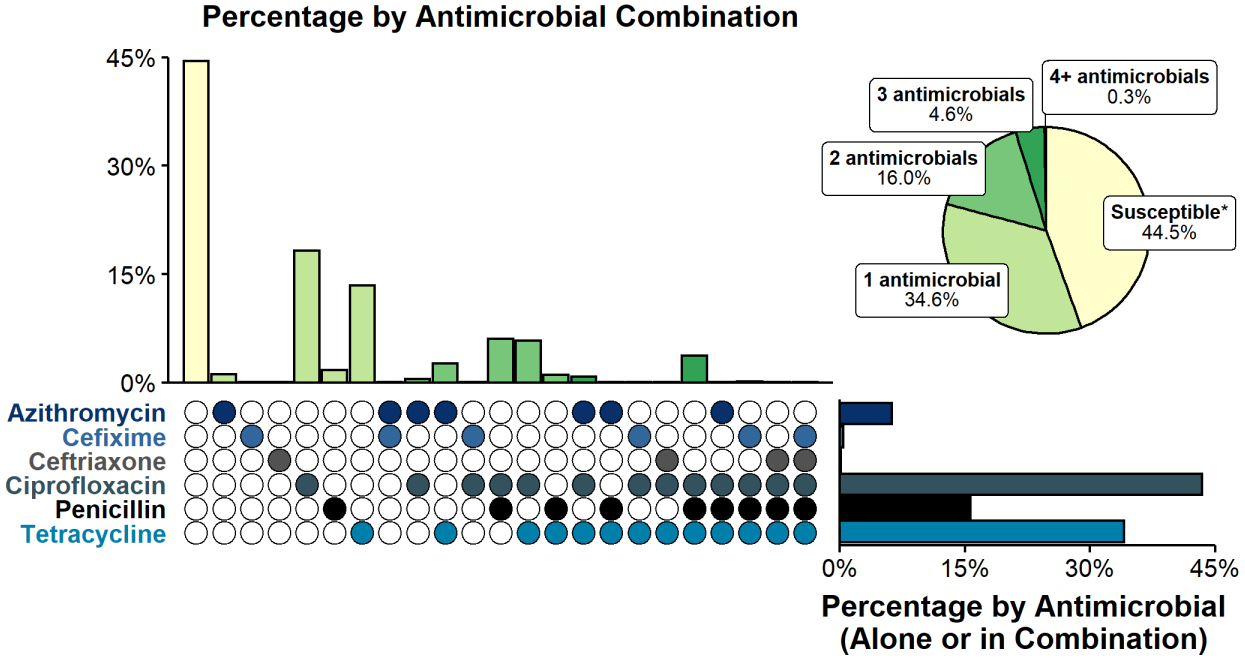
NOTE: Beginning in 2018, the antibiotic susceptibility testing range for gentamicin was expanded from MICs of 1 µg/mL–32 µg/mL in previous years to 0.25 µg/mL–64

Neisseria gonorrhoeae — Prevalence of Tetracycline, Penicillin, or Ciprofloxacin Resistance* or Elevated Cefixime, Ceftriaxone, or Azithromycin Minimum Inhibitory Concentrations (MICs)†, by Year — Gonococcal Isolate Surveillance Project (GISP), 2000–2019



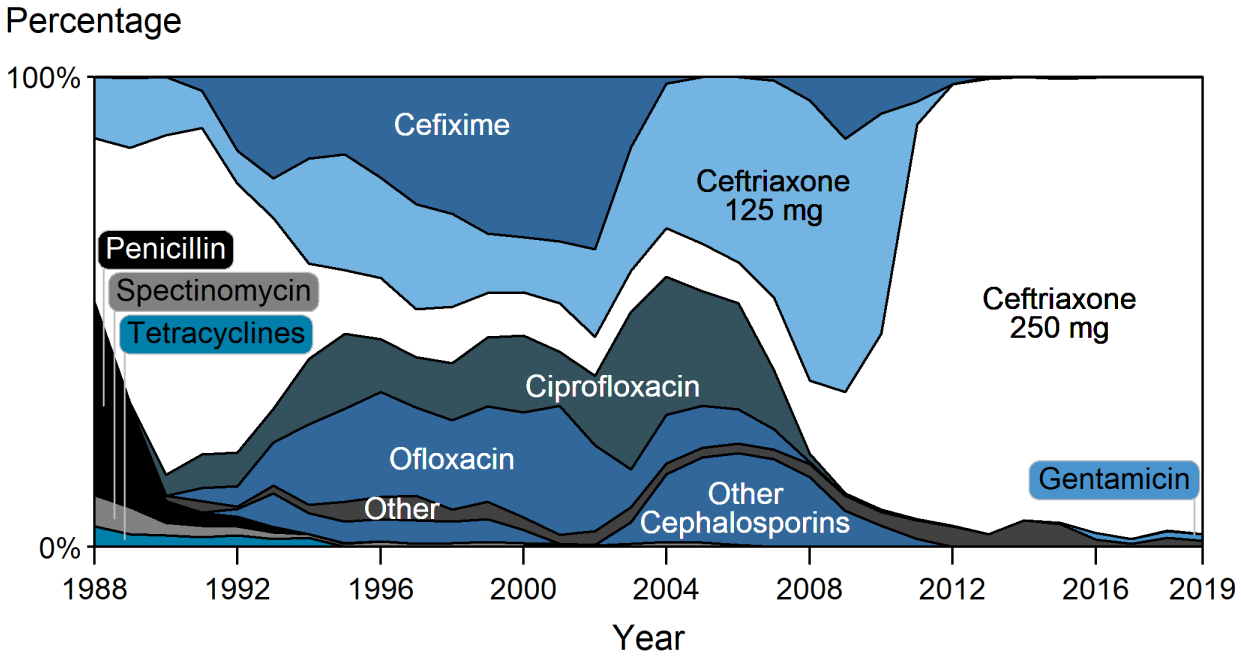
* Resistance: Ciprofloxacin = MIC ≥ 1.0 µg/mL; Penicillin = MIC ≥ 2.0 µg/mL or Beta-lactamase positive; Tetracycline = MIC ≥ 2.0 µg/mL

Resistance or Elevated Minimum Inhibitory Concentration (MIC) Patterns of *Neisseria gonorrhoeae* Isolates to Antimicrobials, Gonococcal Isolate Surveillance Project (GISP), 2019

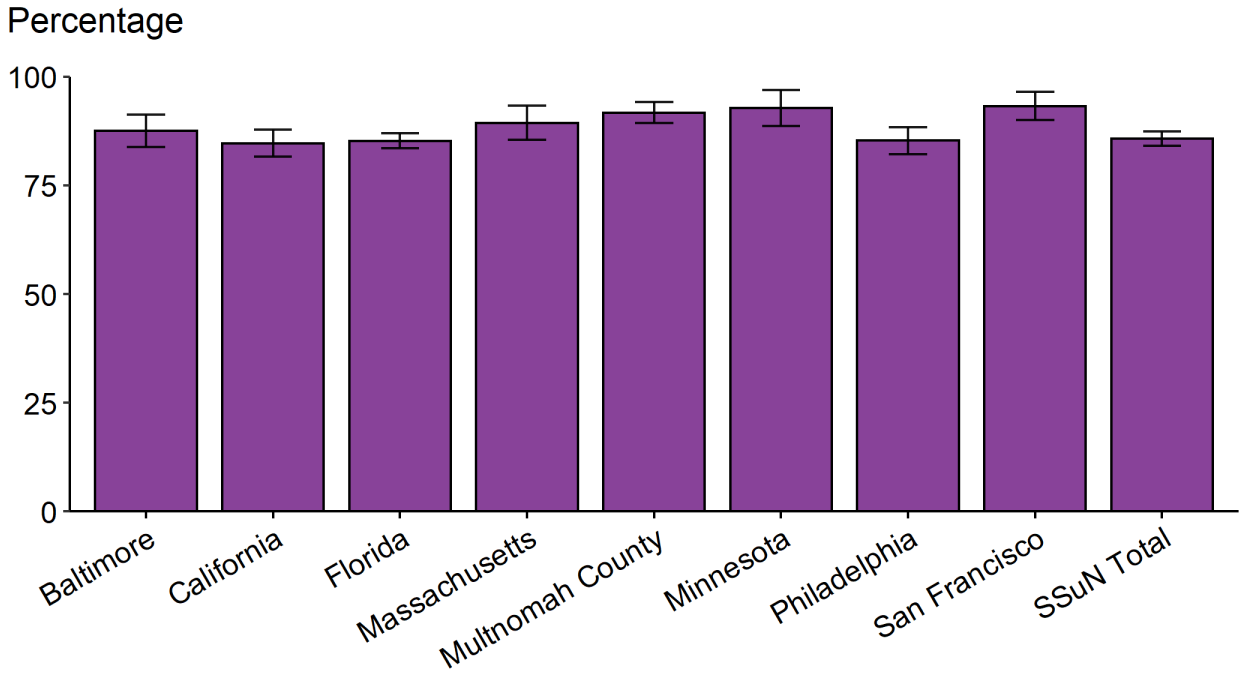


* Susceptible category only includes isolates with penicillin, tetracycline, and ciprofloxacin MIC values that are considered susceptible and isolates with ceftriaxone

Distribution of Primary Antimicrobial Drugs Used to Treat Gonorrhea Among Participants, Gonococcal Isolate Surveillance Project (GISP), 1988–2019

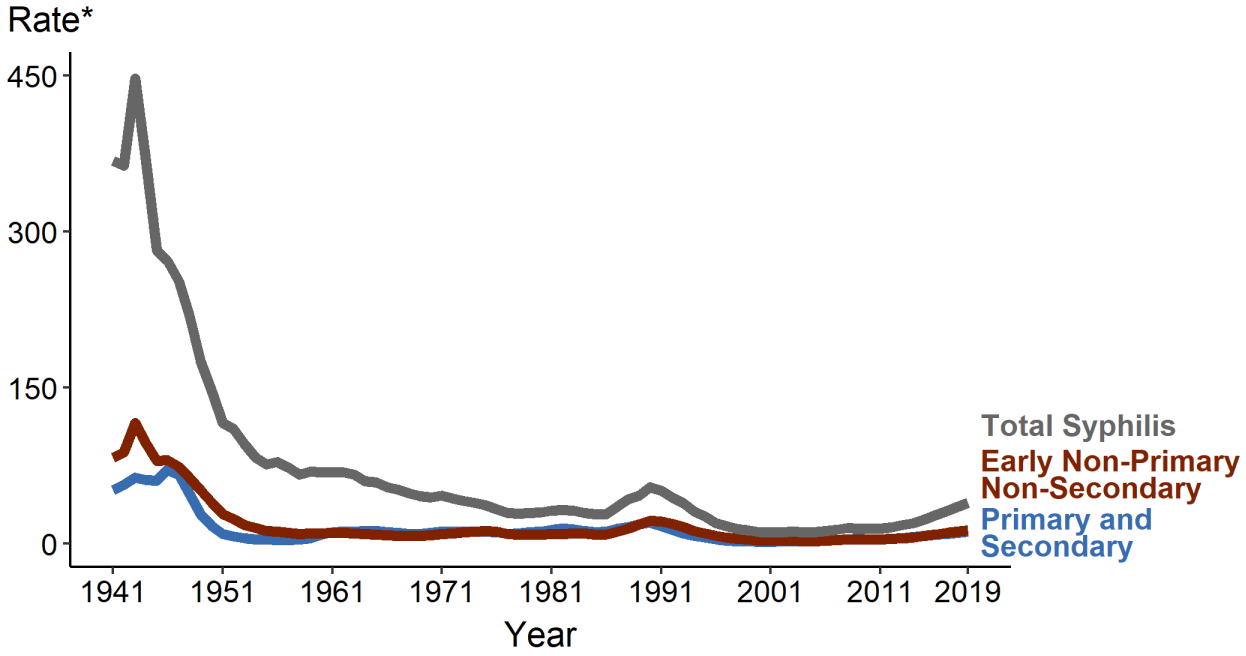


Gonorrhea – Estimated Proportion of Cases Treated with Recommended Regimen by Jurisdiction, STD Surveillance Network (SSuN), 2019



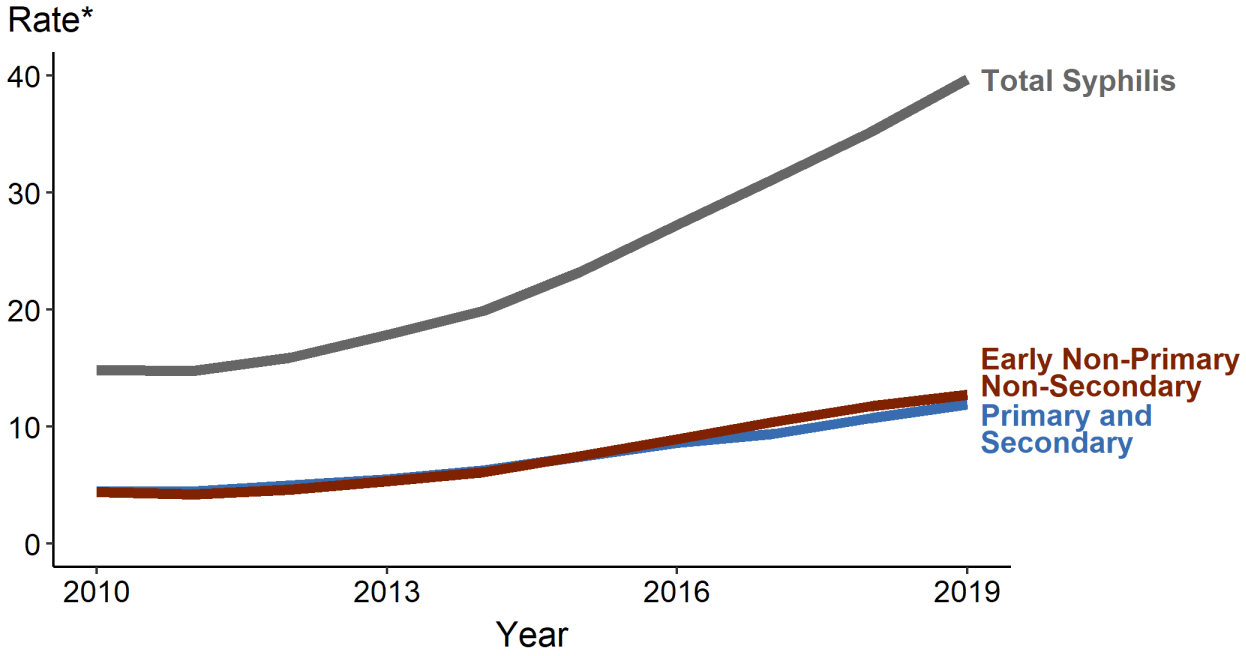
NOTE: Includes SSuN jurisdictions with documented treatment information (antimicrobials and dosages) for >80% of cases with complete investigations. California

Syphilis — Rates of Reported Cases by Stage of Infection, United States, 1941–2019



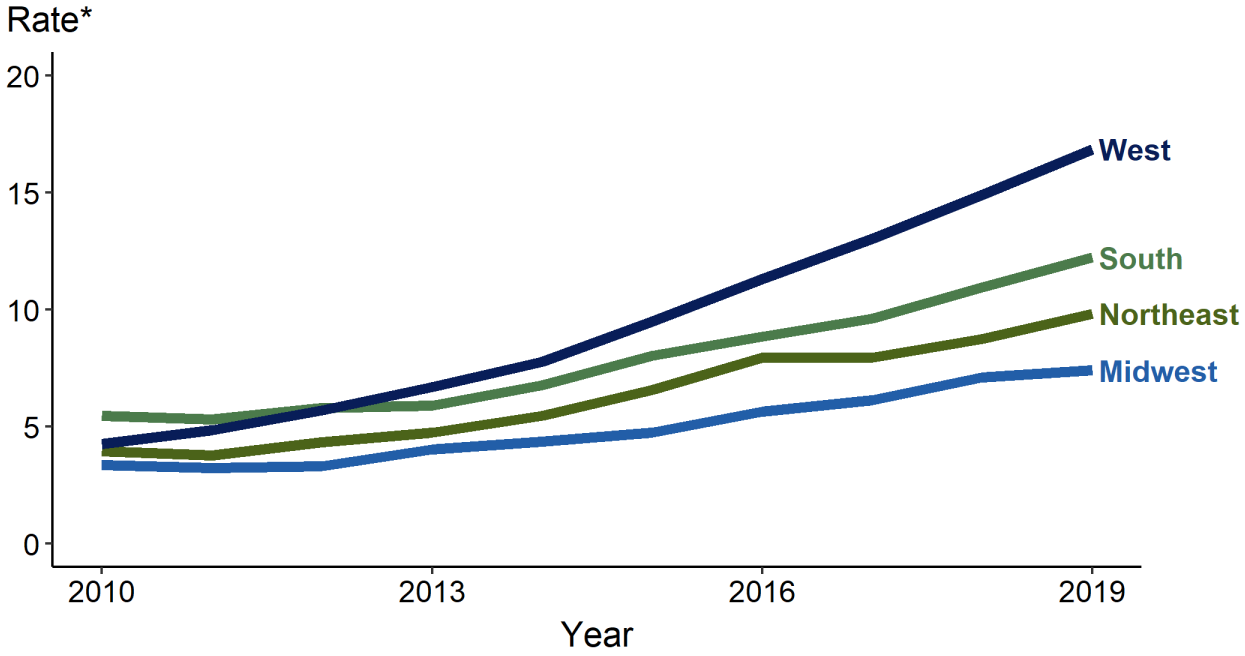
* Per 100,000

Syphilis — Rates of Reported Cases by Stage of Infection, United States, 2010–2019



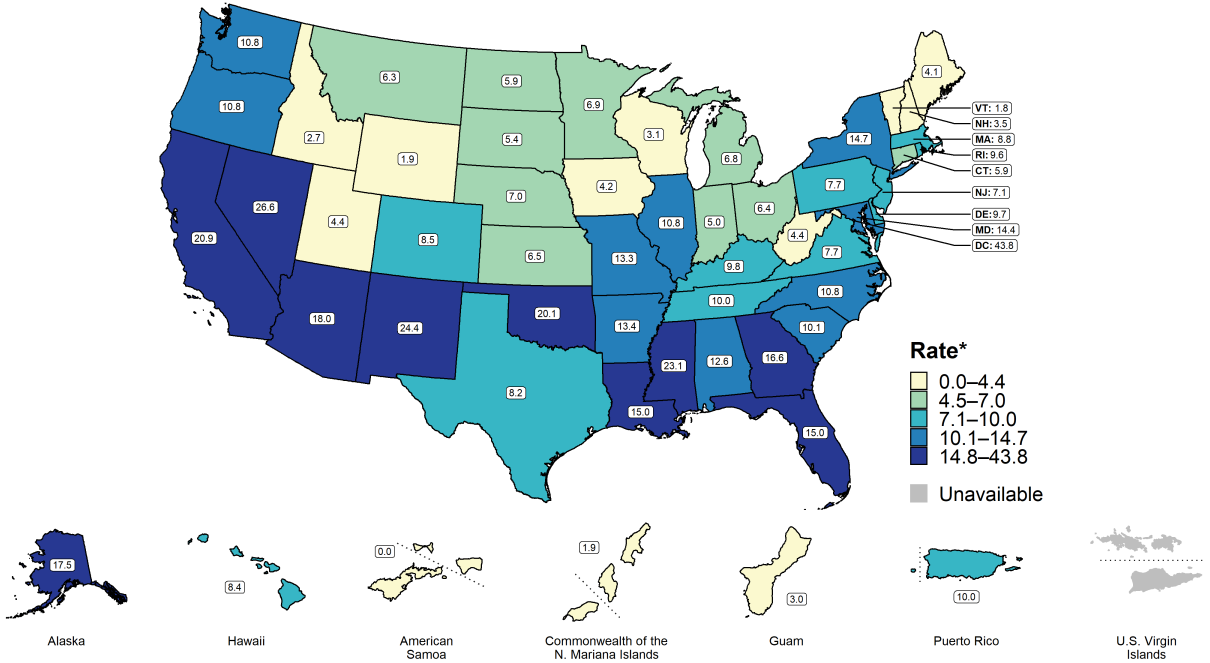
* Per 100,000

Primary and Secondary Syphilis — Rates of Reported Cases by Region, United States, 2010–2019



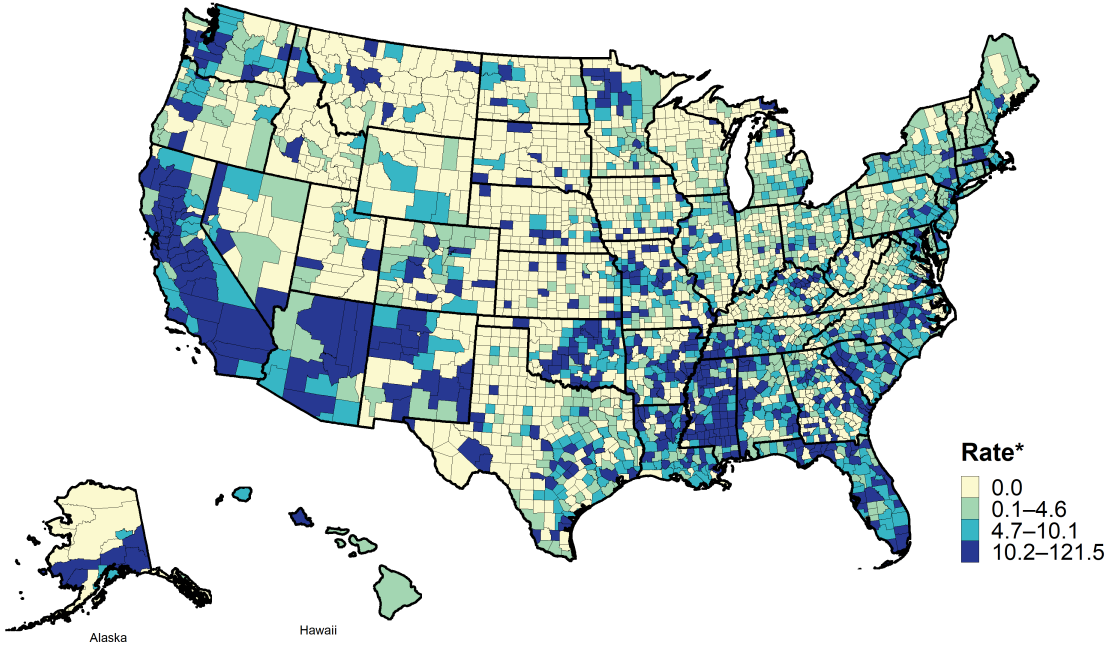
* Per 100,000

Primary and Secondary Syphilis — Rates of Reported Cases by State, United States and Territc



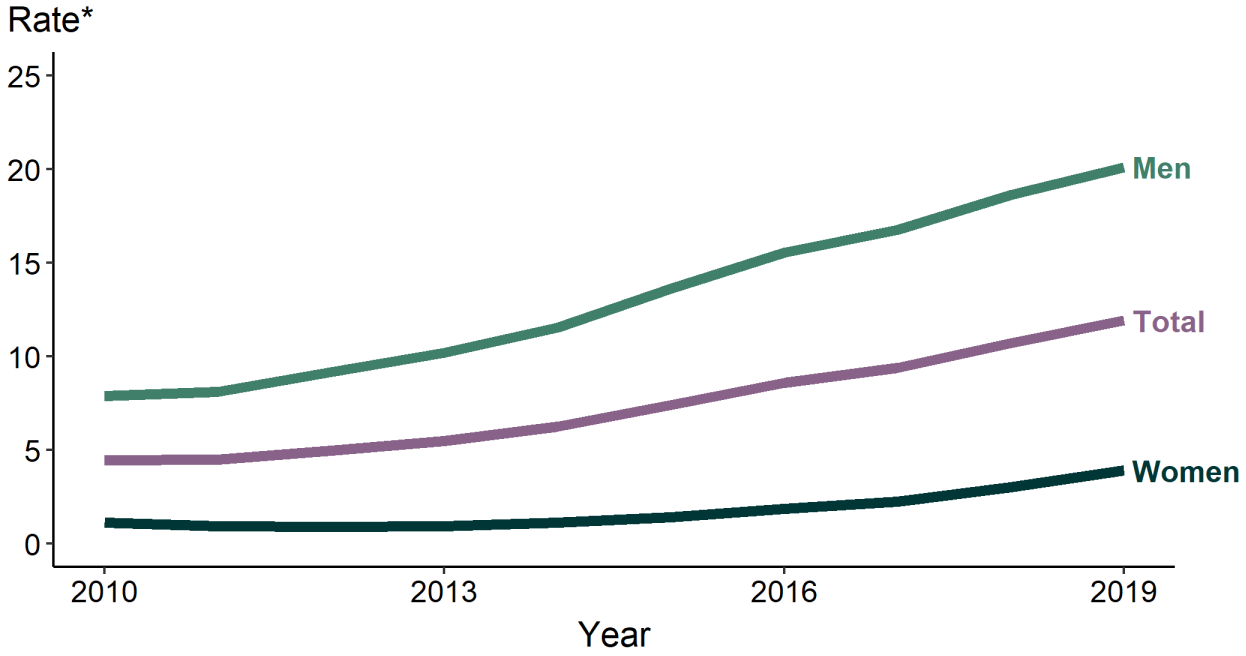
* Per 100,000

Primary and Secondary Syphilis — Rates of Reported Cases by County, United States, 2019



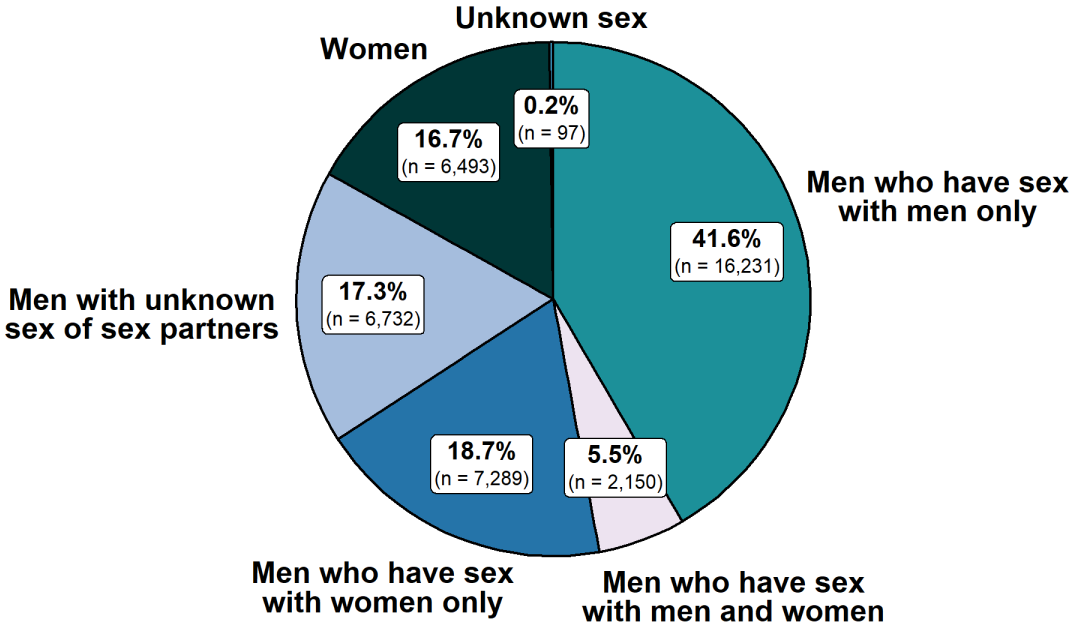
* Per 100,000

Primary and Secondary Syphilis — Rates of Reported Cases by Sex, United States, 2010–2019

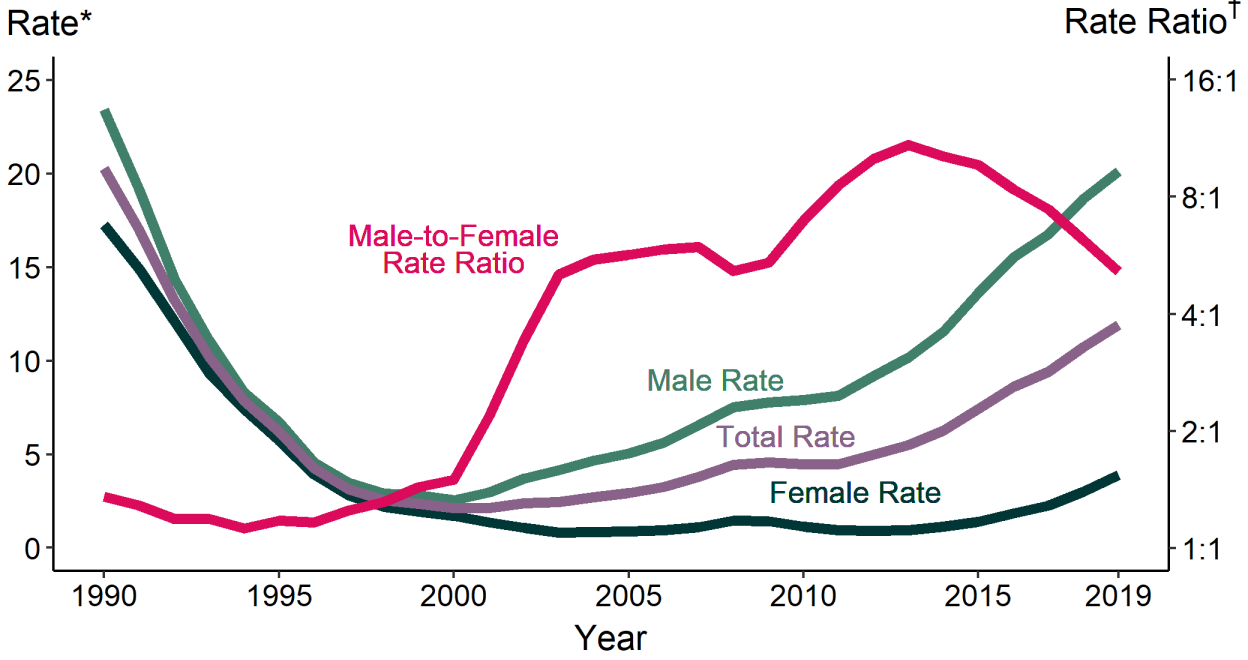


* Per 100,000

Primary and Secondary Syphilis — Distribution of Cases by Sex and Sex of Sex Partners, United States



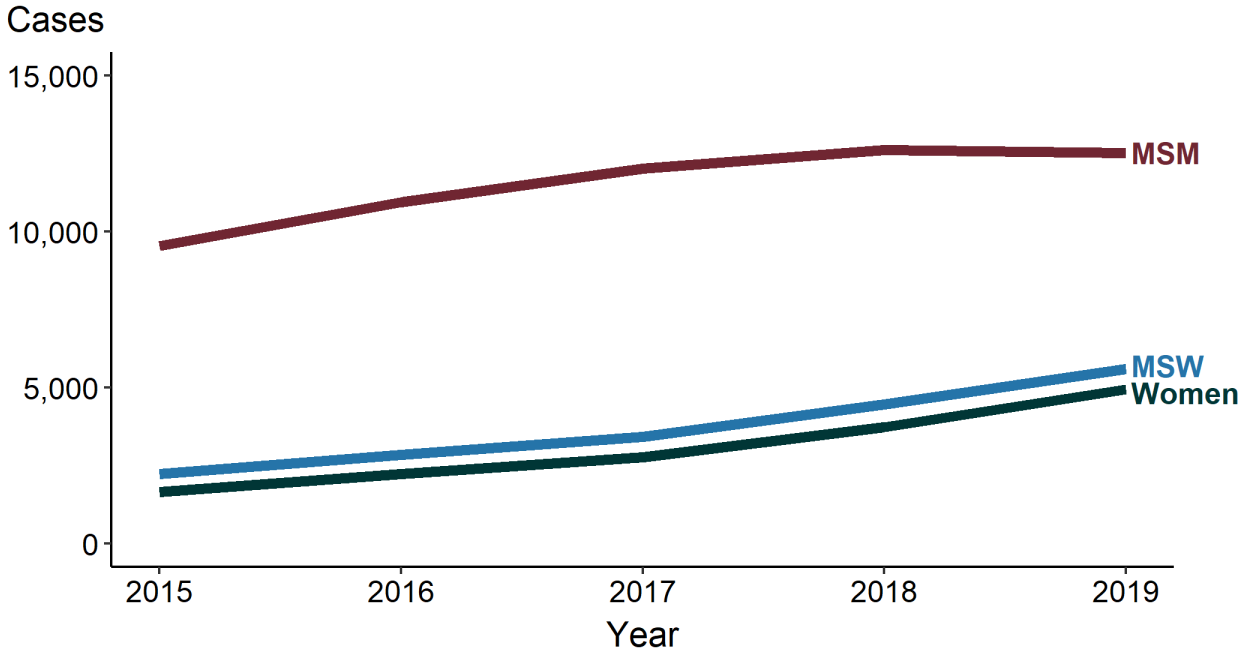
Primary and Secondary Syphilis — Rates of Reported Cases by Sex and Male-to-Female Rate R



* Per 100,000

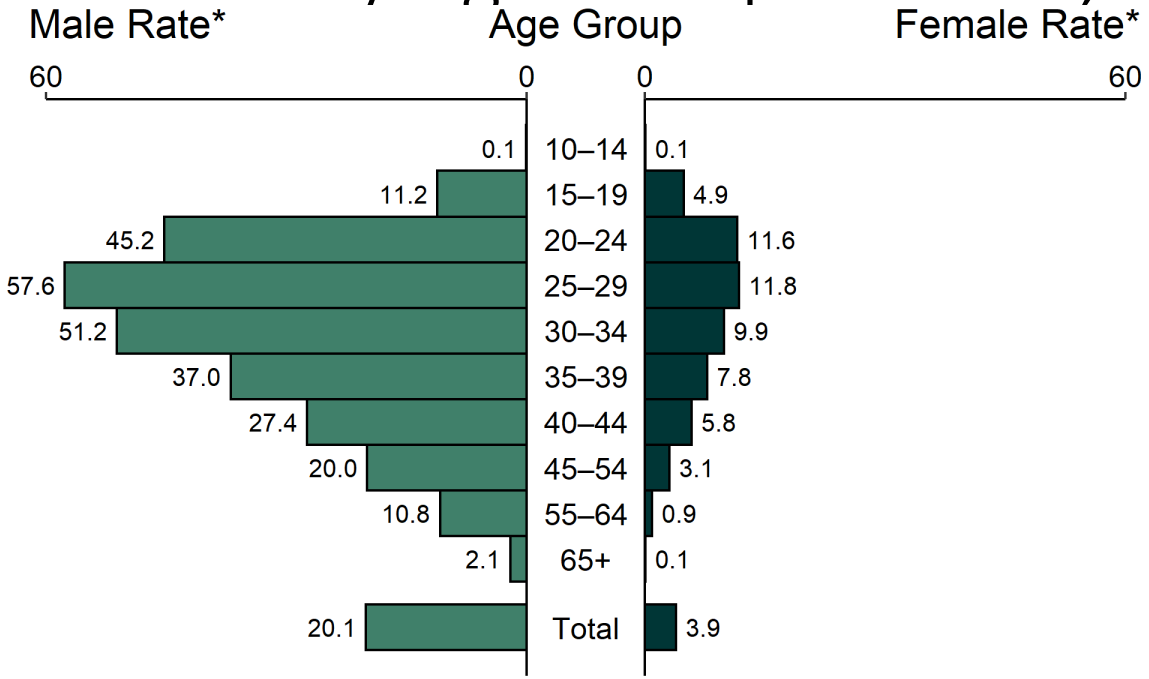
† Log scale

Primary and Secondary Syphilis — Reported Cases by Sex and Sex of Sex Partners, 31 States



*31 states were able to classify ≥70% of reported cases of primary and secondary syphilis among males as either MSM or MSW for each year during 2015–2019

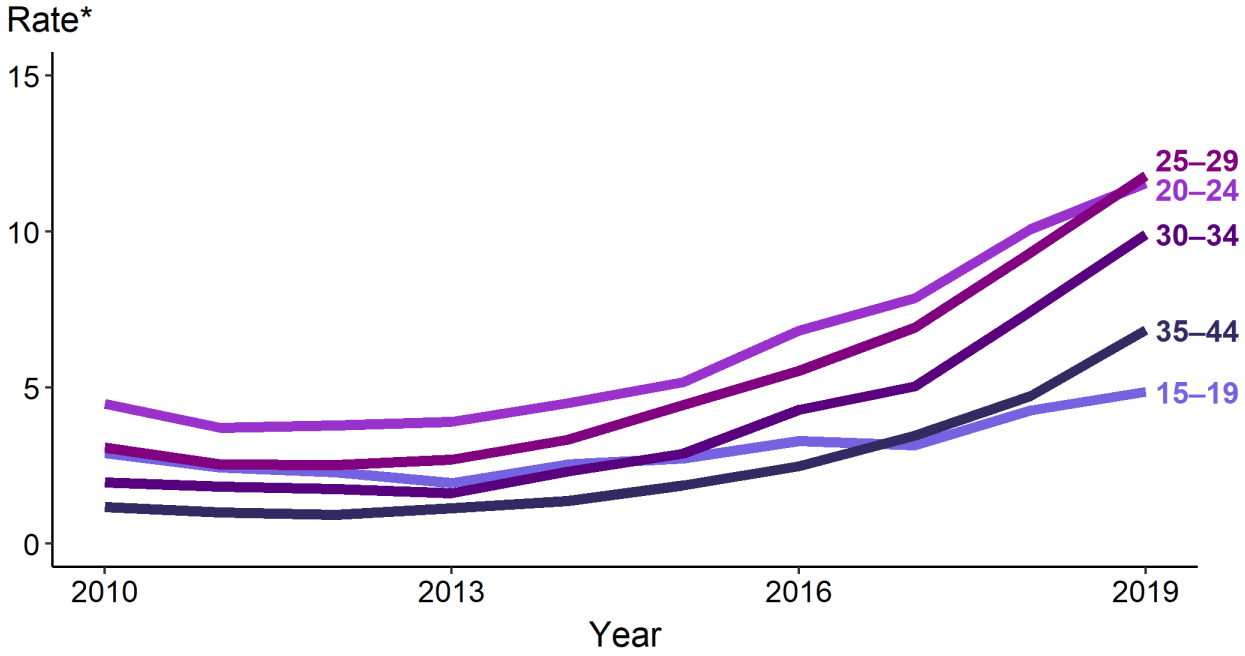
Primary and Secondary Syphilis — Rates of Reported Cases by Age Group and Sex, United States



* Per 100,000

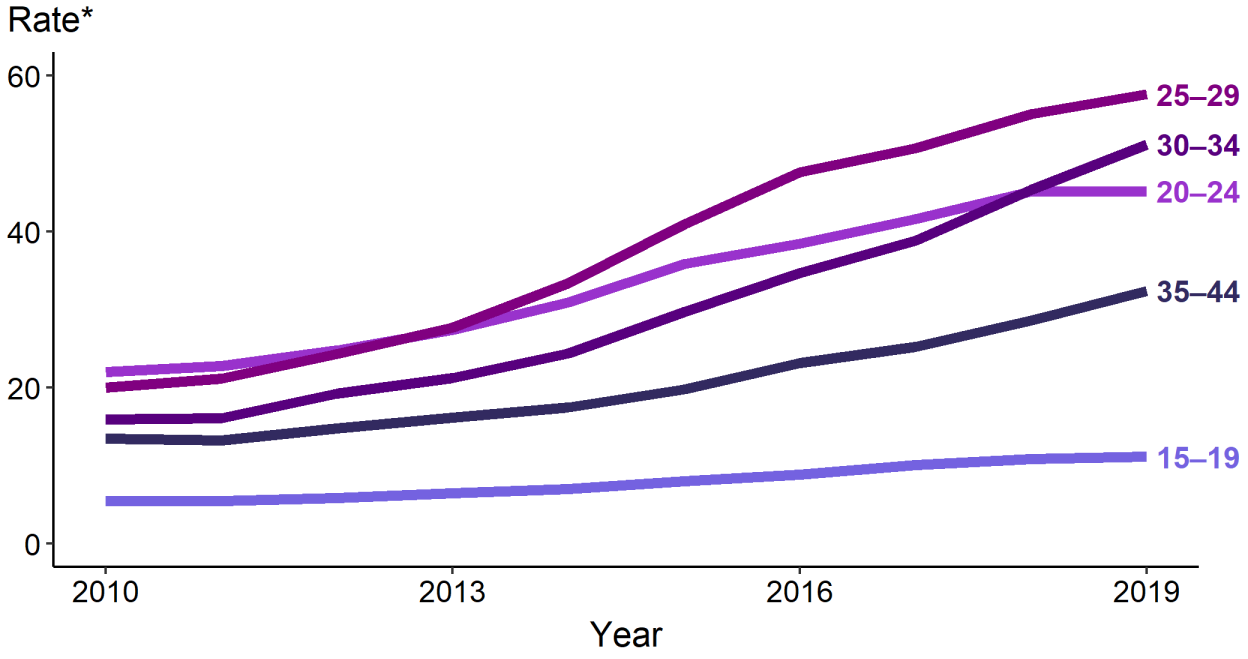
NOTE: Total includes all ages.

Primary and Secondary Syphilis — Rates of Reported Cases Among Females Aged 15–44 Years I 2019



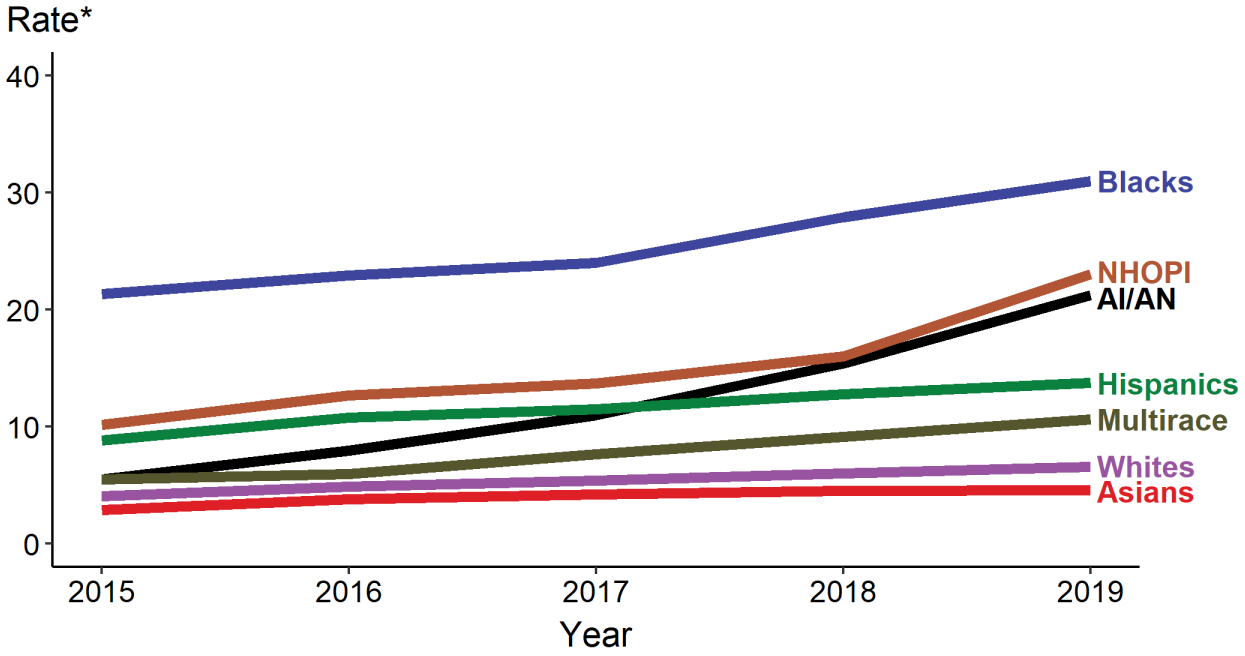
* Per 100,000

Primary and Secondary Syphilis — Rates of Reported Cases Among Males Aged 15–44 Years I 2019



* Per 100,000

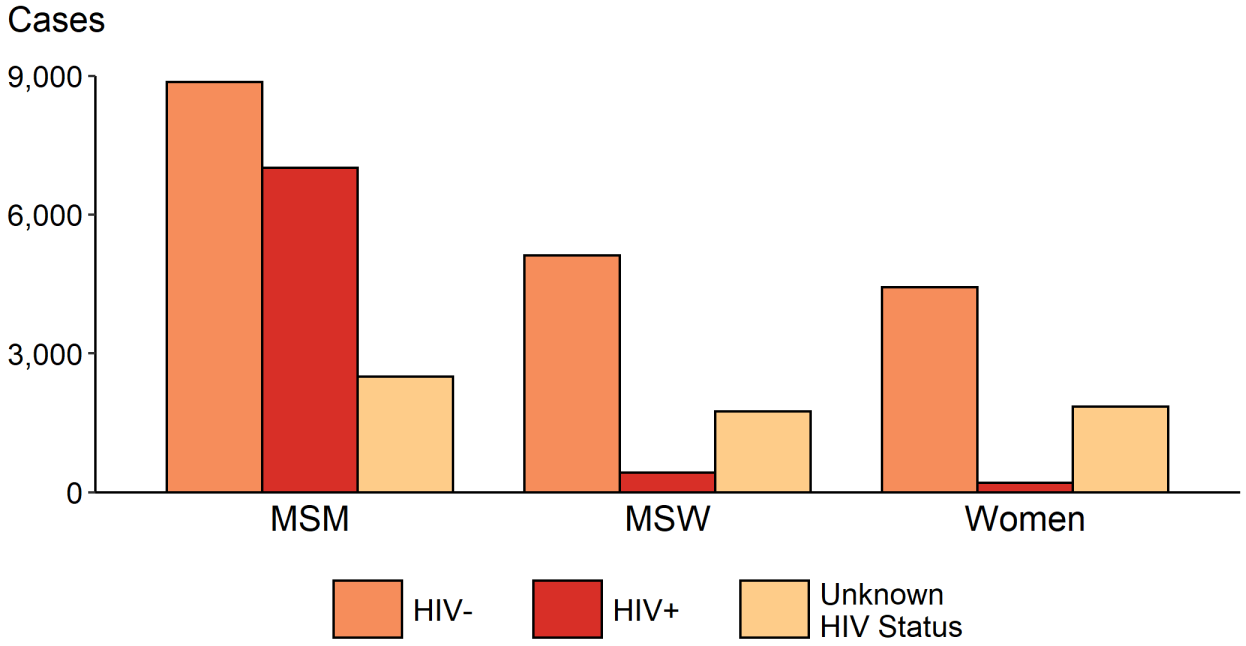
Primary and Secondary Syphilis — Rates of Reported Cases by Race/Hispanic Ethnicity, Unitec



* Per 100,000

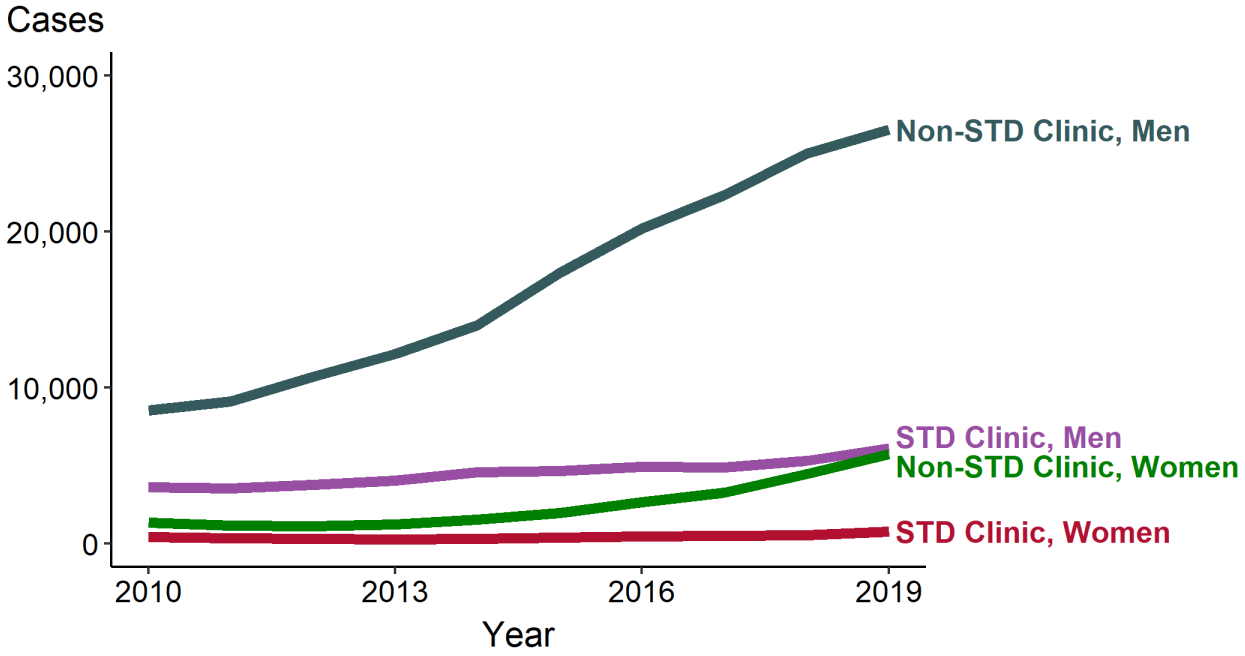
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Primary and Secondary Syphilis — Reported Cases by Sex, Sex of Sex Partners, and HIV Status

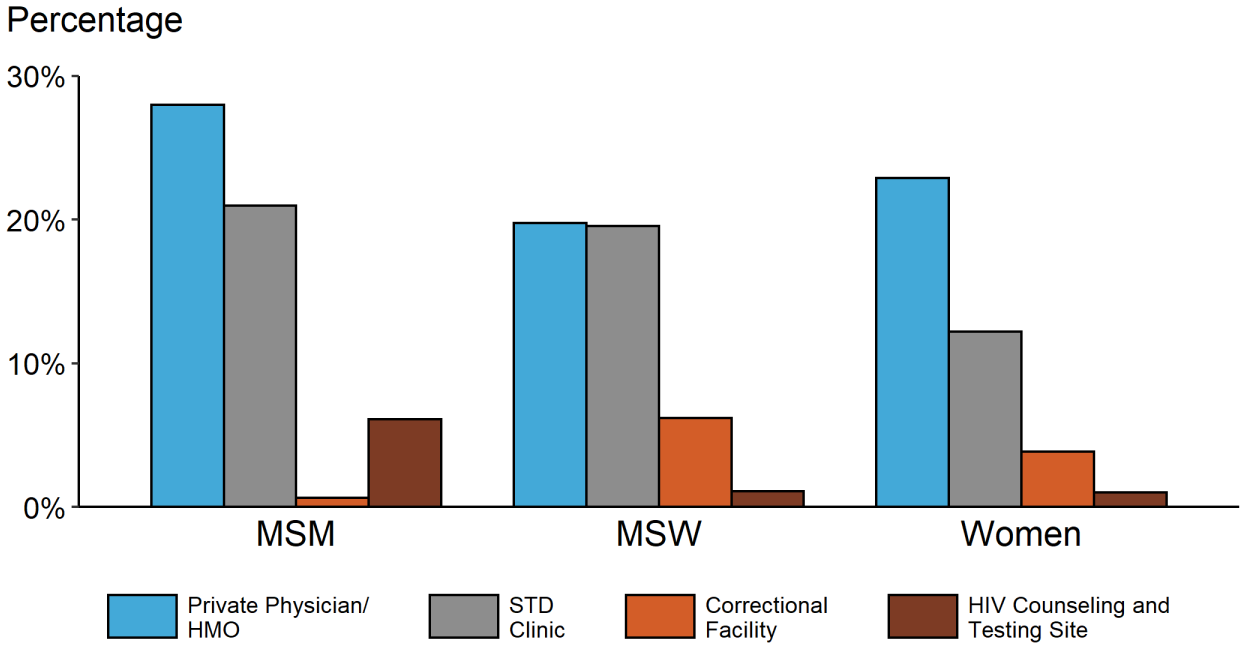


ACRONYMS: MSM = Gay, bisexual, and other men who have sex with men; MSW = Men who have sex with women only

Primary and Secondary Syphilis — Reported Cases by Reporting Source and Sex, United States

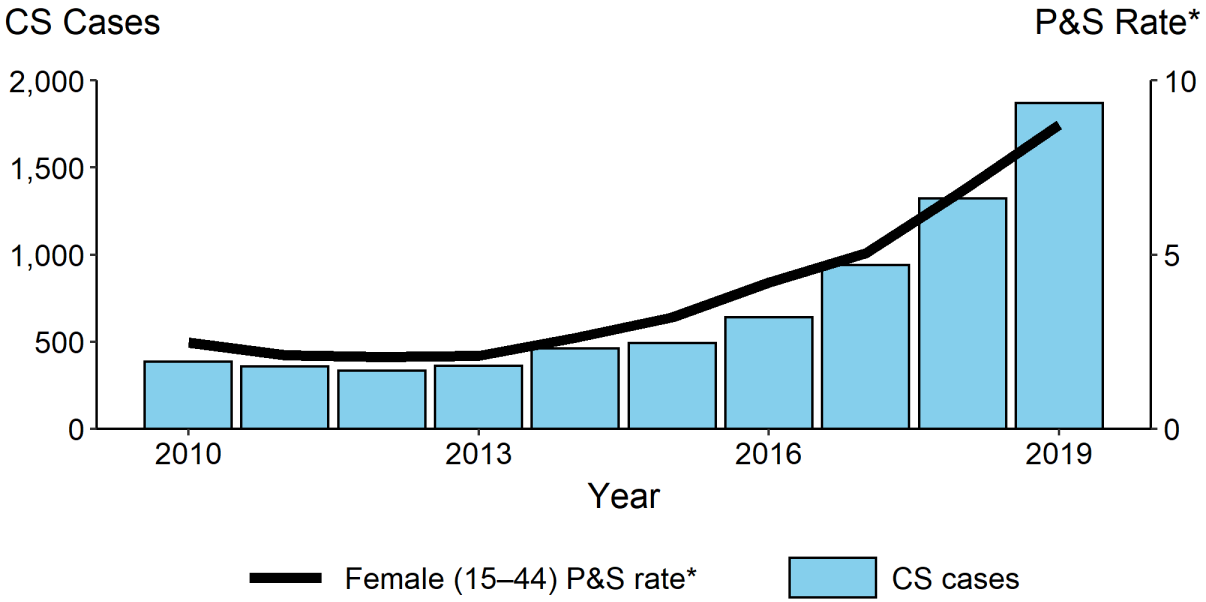


Primary and Secondary Syphilis — Percentage of Reported Cases by Sex, Sex of Sex Partners, and Selected Reporting Sources, United States, 2019



ACRONYMS: HMO = health maintenance organization; MSM = Gay, bisexual, and other men who have sex with men; MSW = Men who have sex with women only

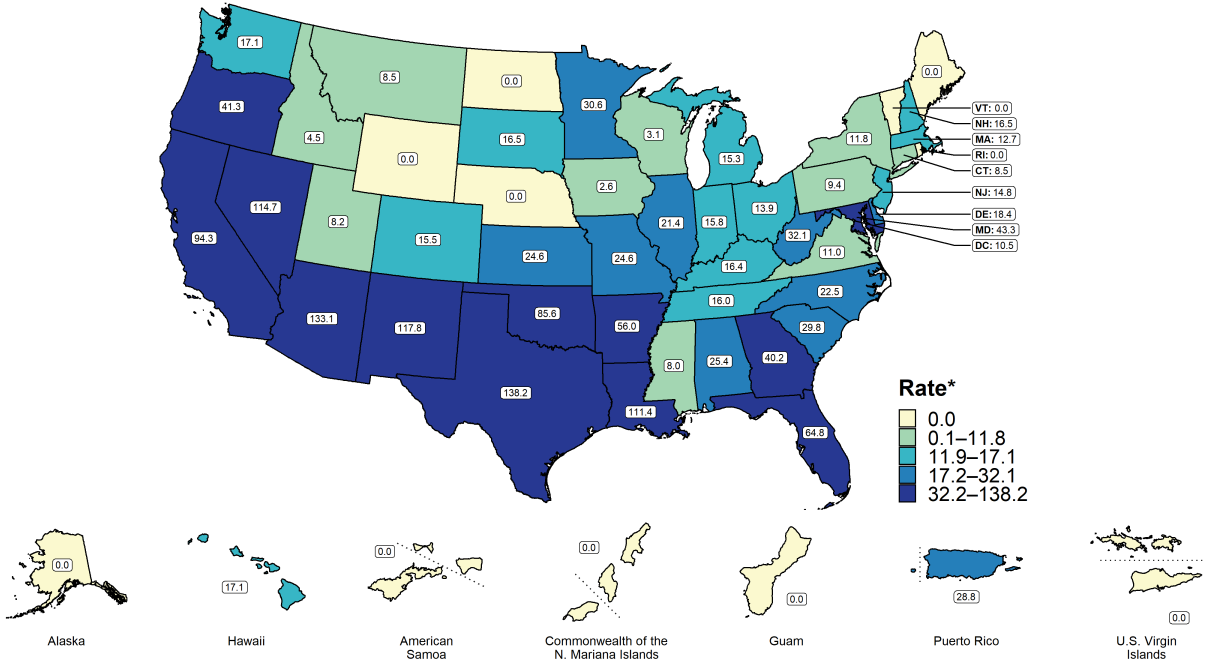
Congenital Syphilis — Reported Cases by Year of Birth and Rates of Reported Cases of Primary and Secondary Syphilis Among Females Aged 15–44 Years, United States, 2010–2019



* Per 100,000

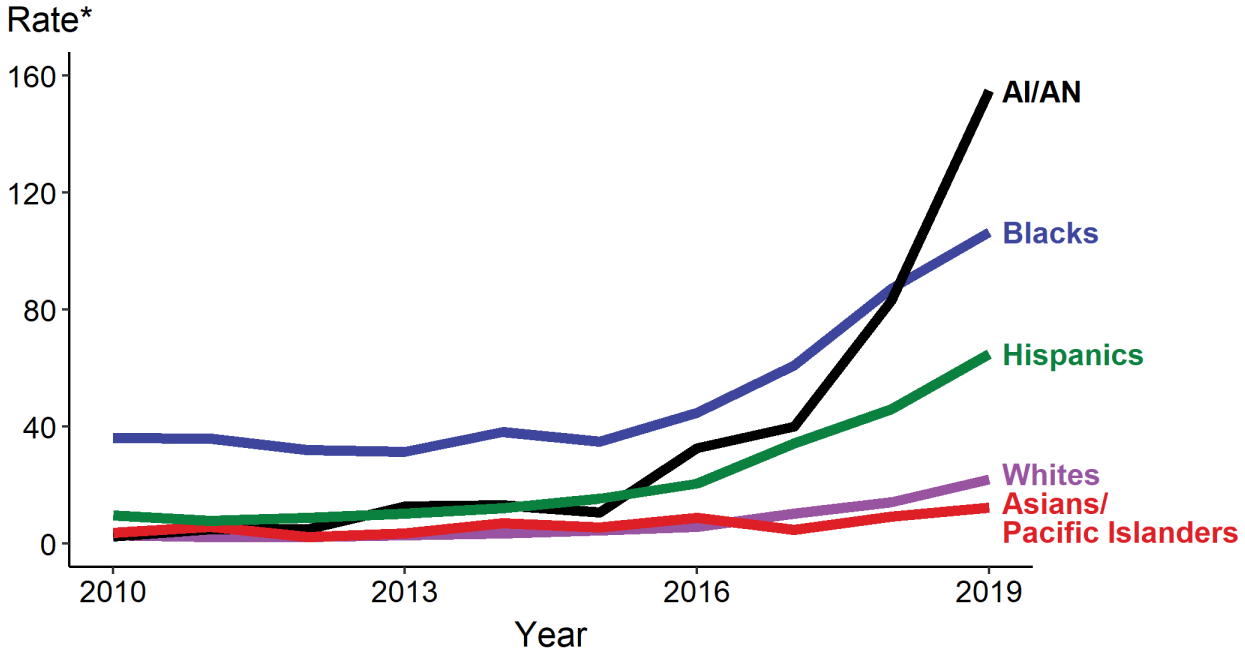
ACRONYMS: CS = Congenital syphilis; P&S = Primary and

Congenital Syphilis — Rates of Reported Cases by Year of Birth and State, United States and Territc



* Per 100,000 live births

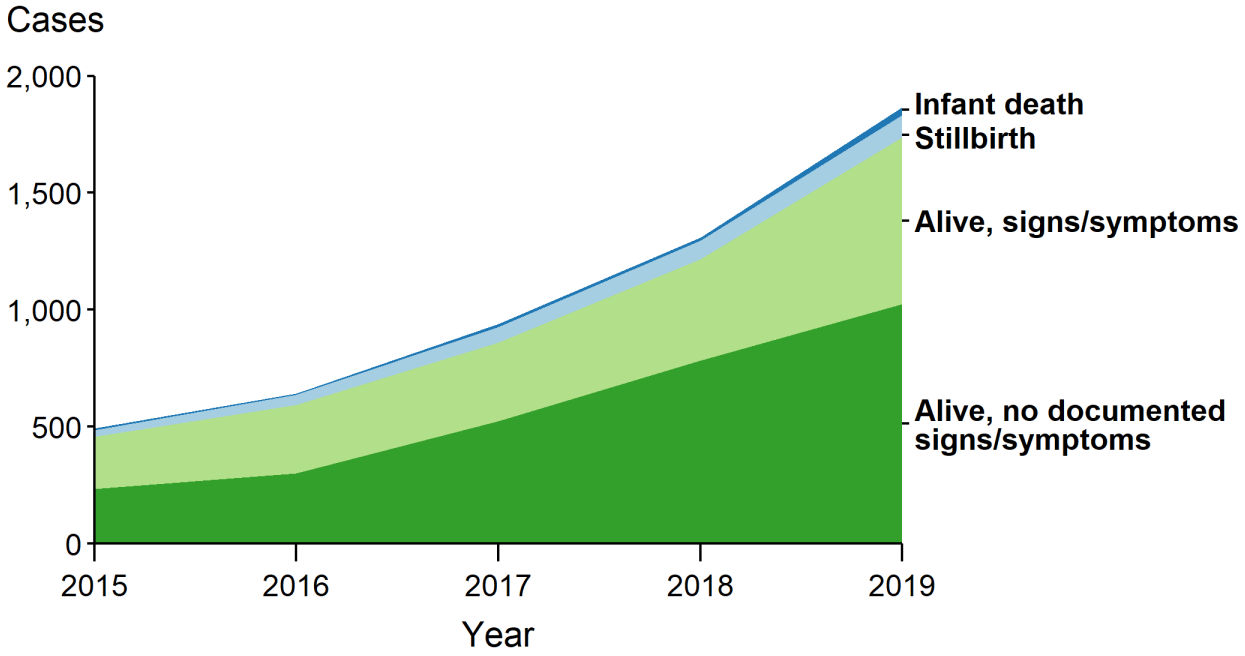
Congenital Syphilis — Rates of Reported Cases by Year of Birth, Race, and Hispanic Ethnicity of Mothe



* Per 100,000 live births

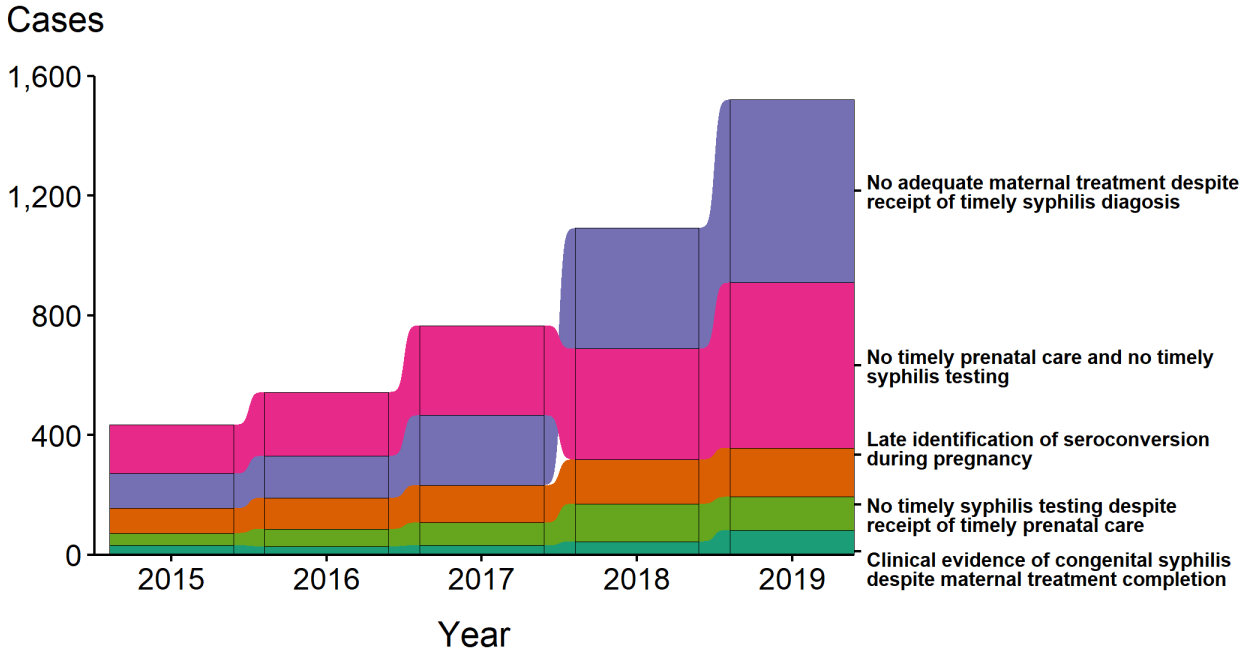
ACRONYMS: AI/AN = American Indians/Alaska Natives

Congenital Syphilis — Reported Cases by Vital Status and Clinical Signs and Symptoms* of Infecti



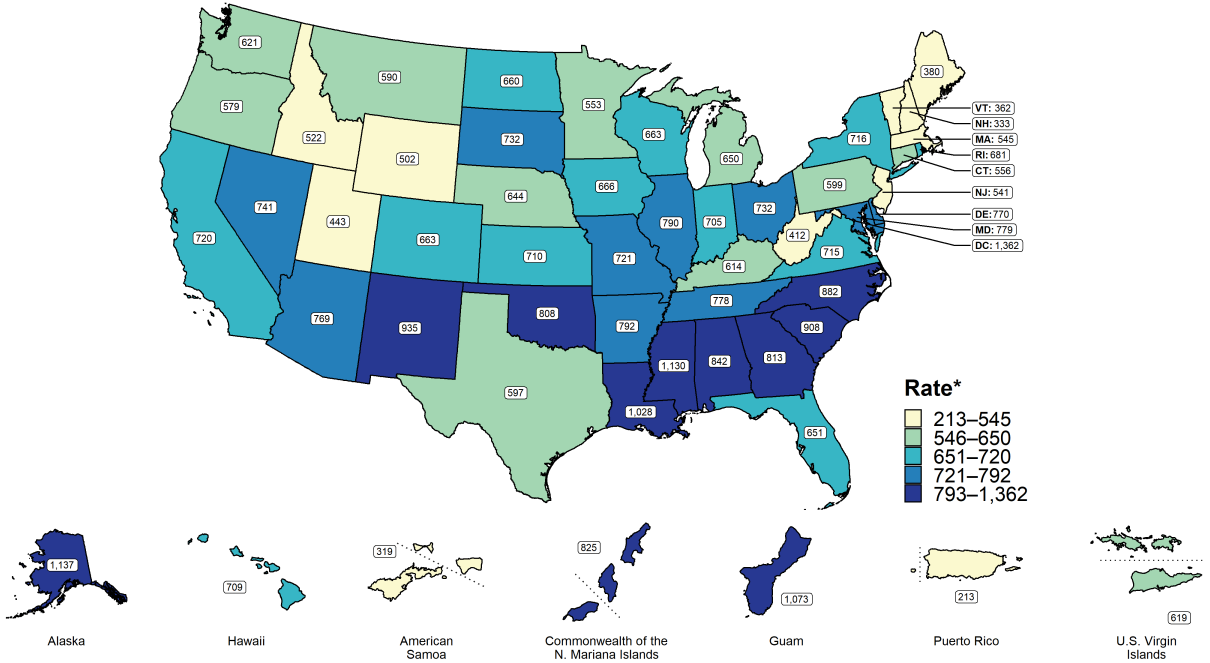
*Infants with signs/symptoms of congenital syphilis have documentation of at least one of the following: long bone changes consistent with congenital syphilis

Congenital Syphilis — Missed Prevention Opportunities among Mothers Delivering Infants with Congenital Syphilis, United States, 2015–2019



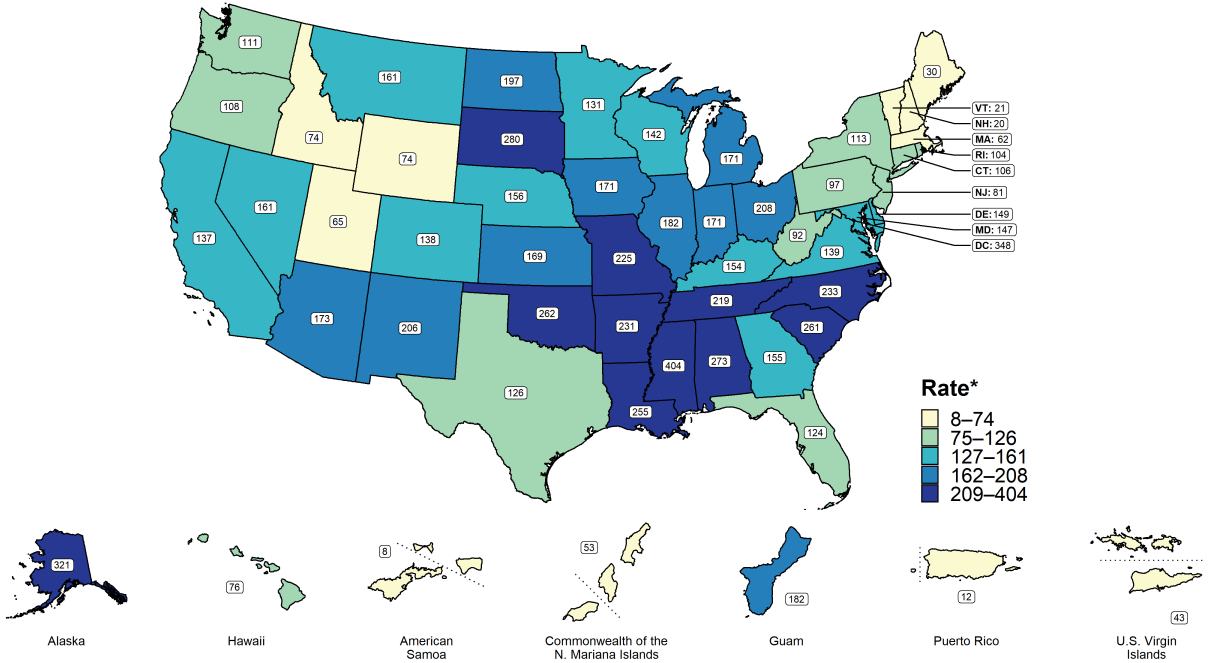
NOTE: Of the 5,269 congenital syphilis cases reported during 2015–2019, 912 (17.3%) were not able to have the primary missed prevention opportunity identified

Chlamydia — Rates of Reported Cases Among Females by State, United States and Territories, 2019



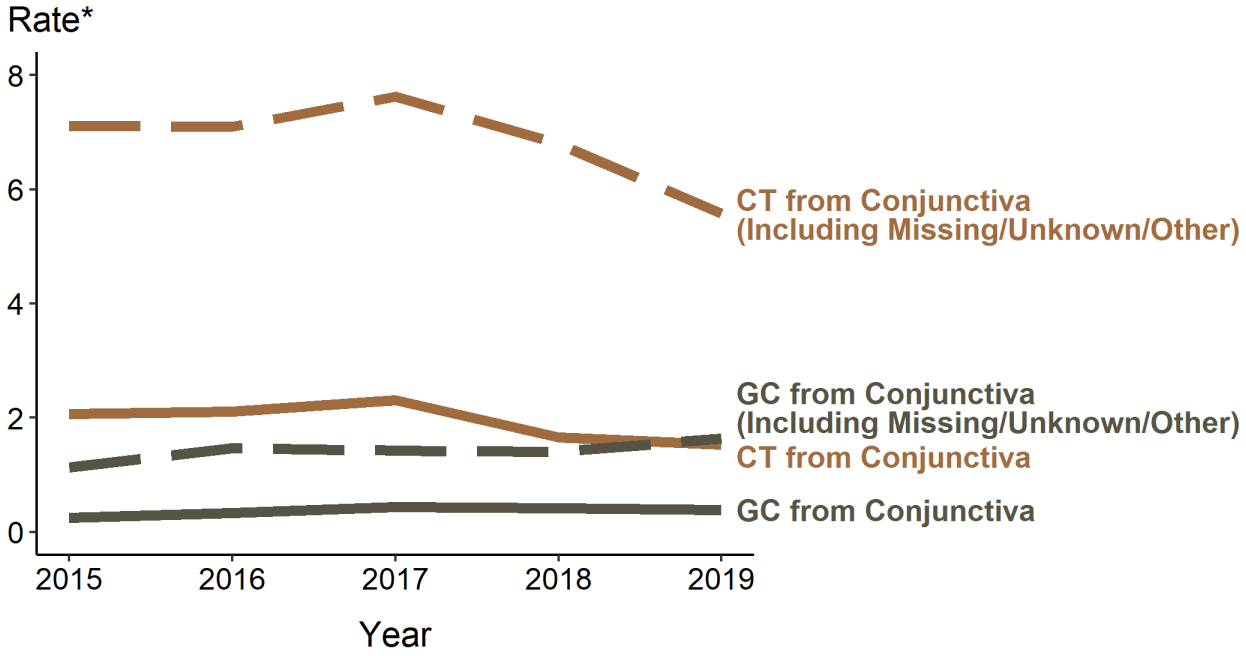
* Per 100,000

Gonorrhea — Rates of Reported Cases Among Females by State, United States and Territories, 2019



* Per 100,000

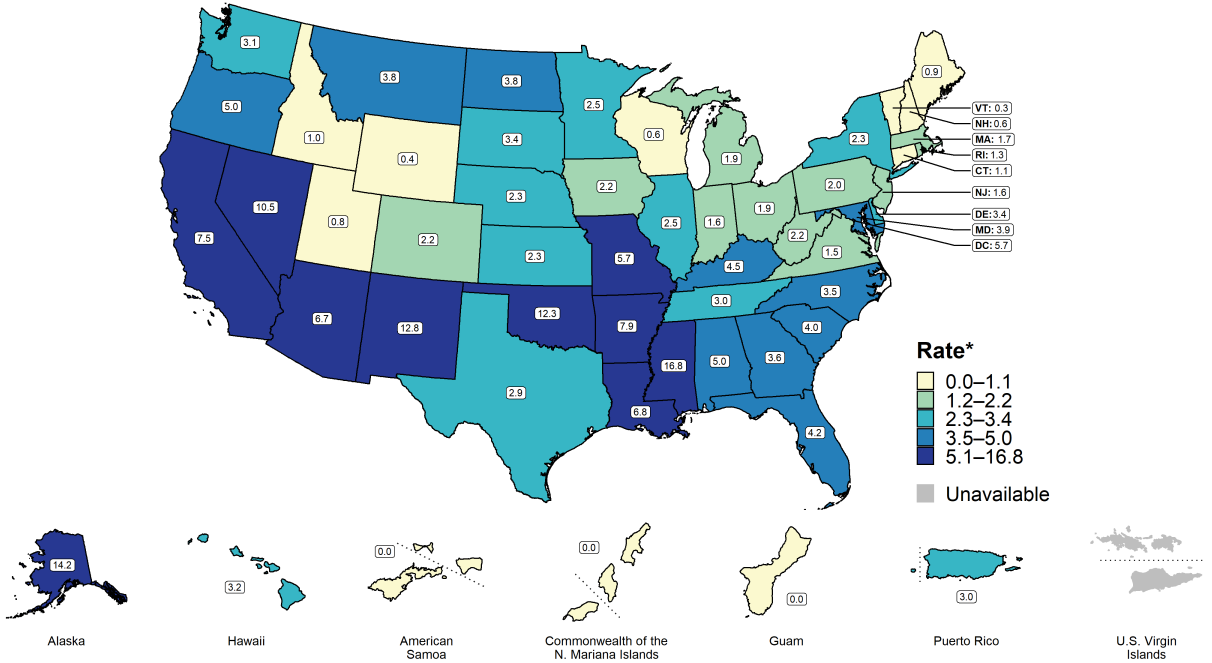
Chlamydia and Gonorrhea — Rates of Reported Cases Among Infants <1 Year of Age by Year and Specimen Source, United States, 2015–2019



* Per 100,000 live births

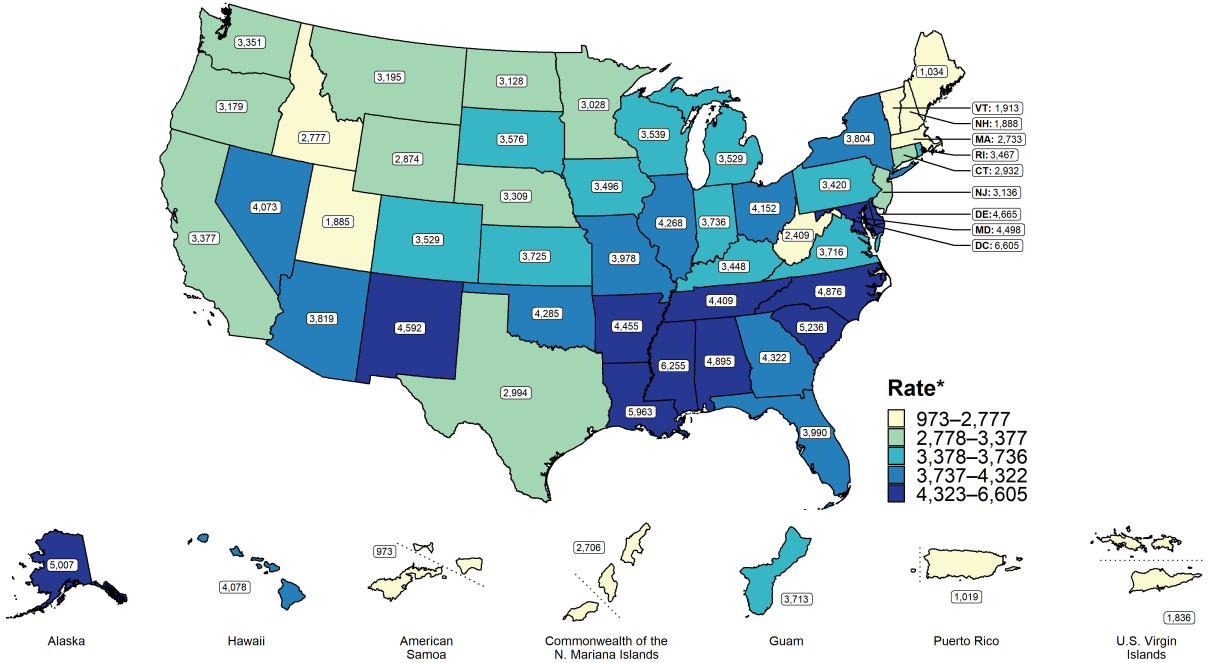
ACRONYMS: CT = Chlamydia; GC = Gonorrhea

Primary and Secondary Syphilis — Rates of Reported Cases Among Females by State, Unitec



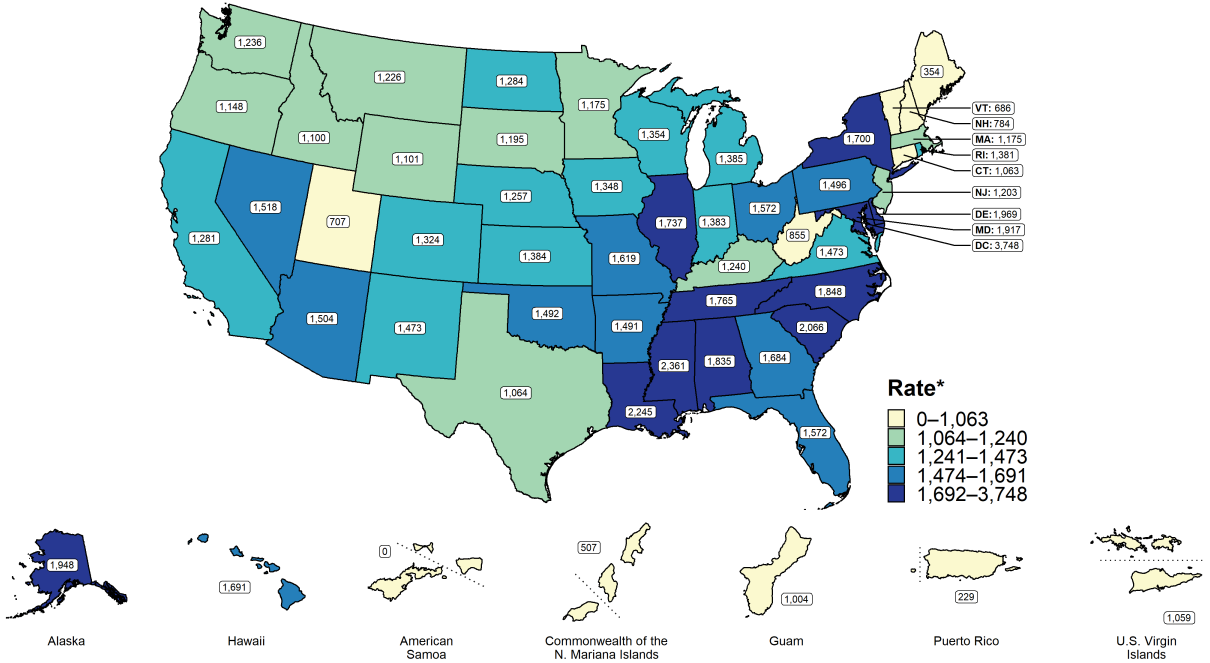
* Per 100,000

Chlamydia — Rates of Reported Cases Among Females Aged 15–24 Years by State, United States



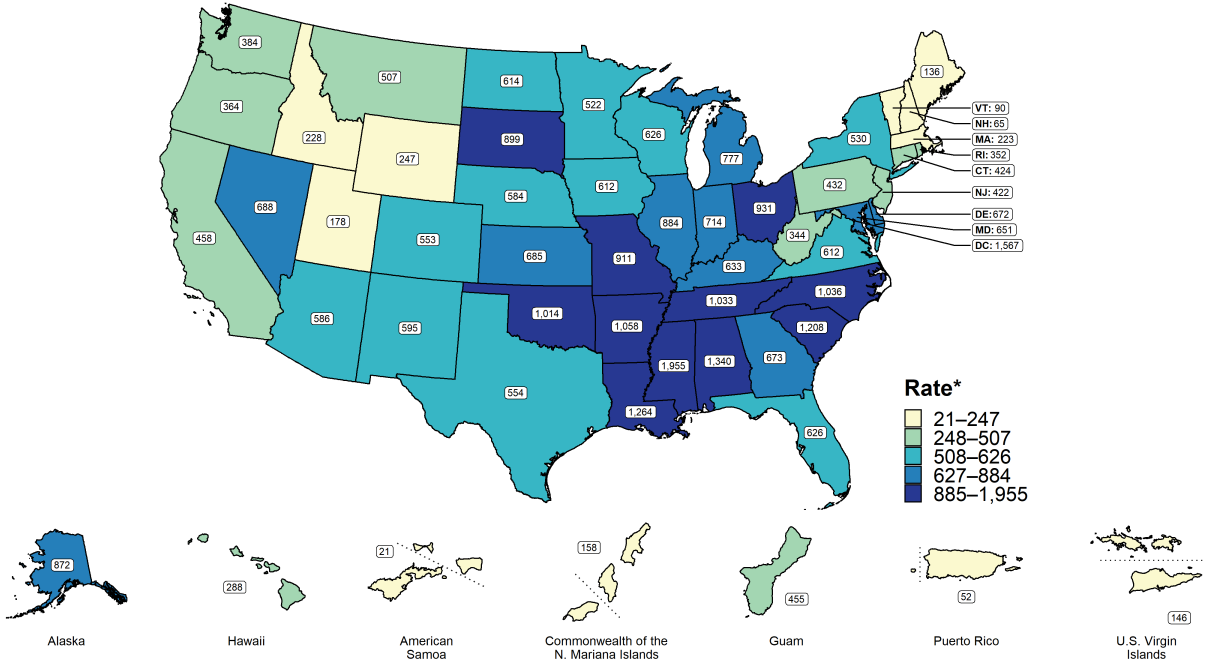
* Per 100,000

Chlamydia — Rates of Reported Cases Among Males Aged 15–24 Years by State, United States and Te



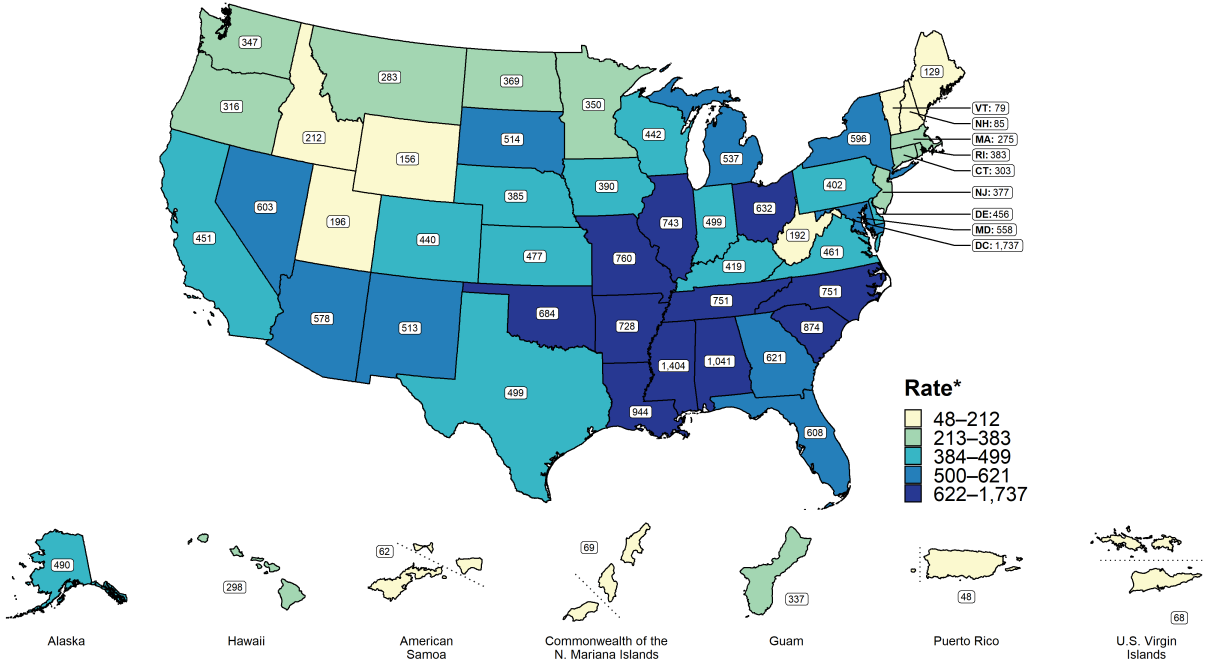
* Per 100,000

Gonorrhea — Rates of Reported Cases Among Females Aged 15–24 Years by State, United States



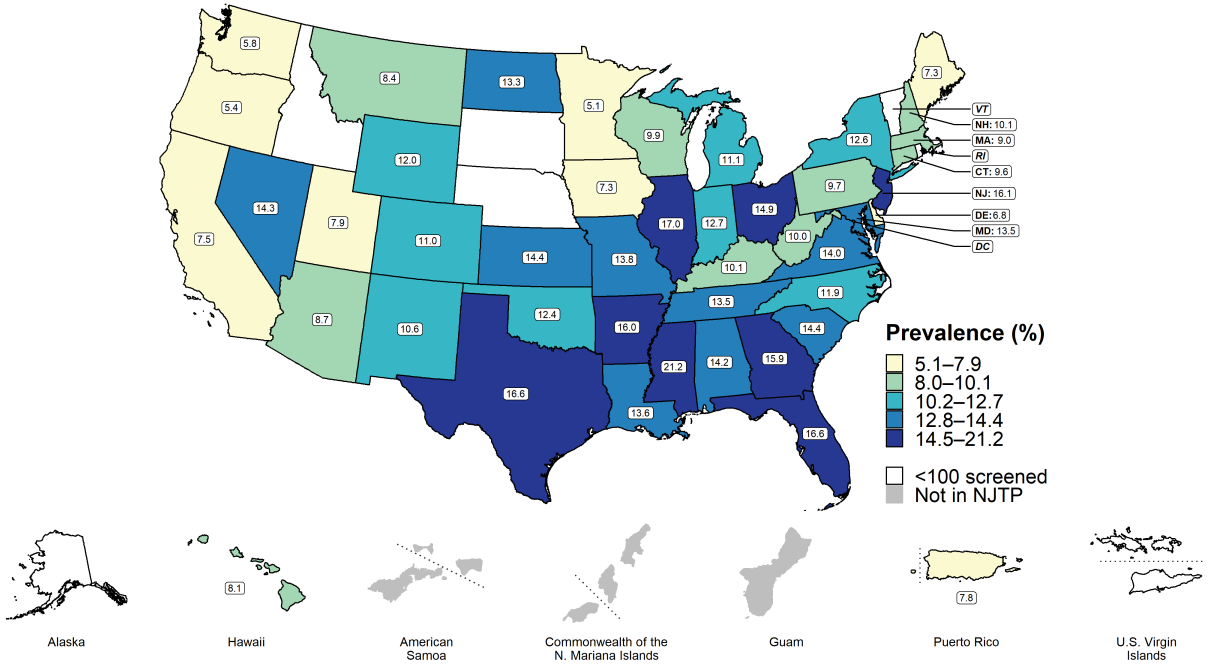
* Per 100,000

Gonorrhea — Rates of Reported Cases Among Males Aged 15–24 Years by State, United States and Te



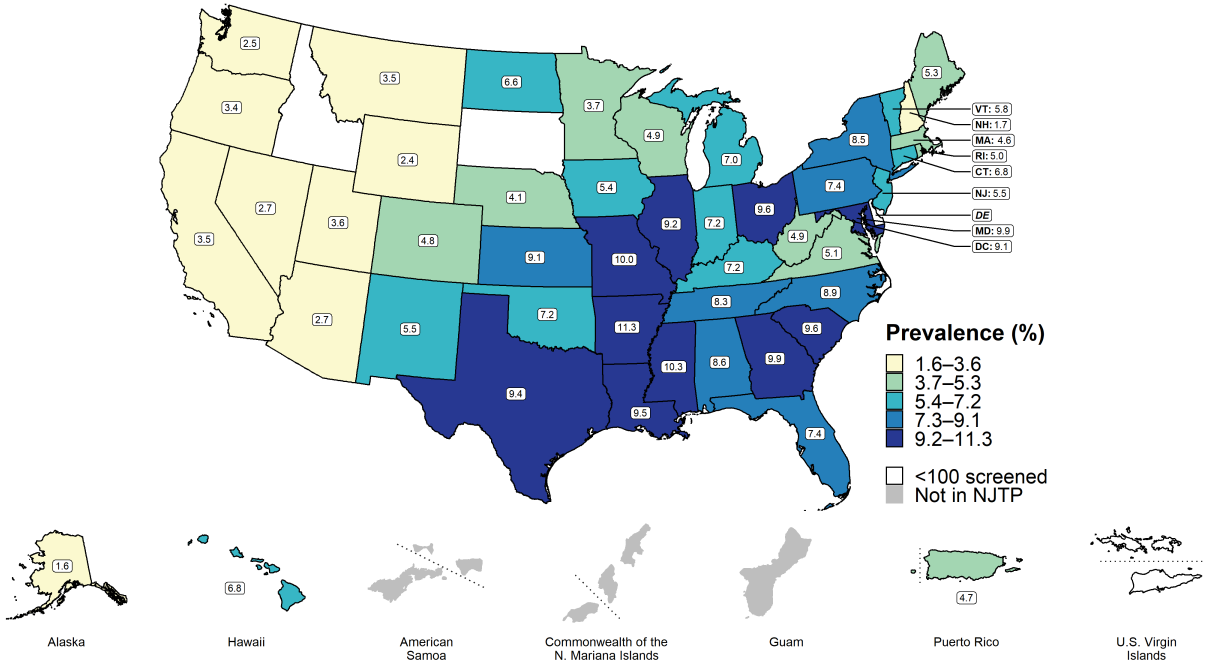
* Per 100,000

Chlamydia — Prevalence Among Females Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Territories, 2019



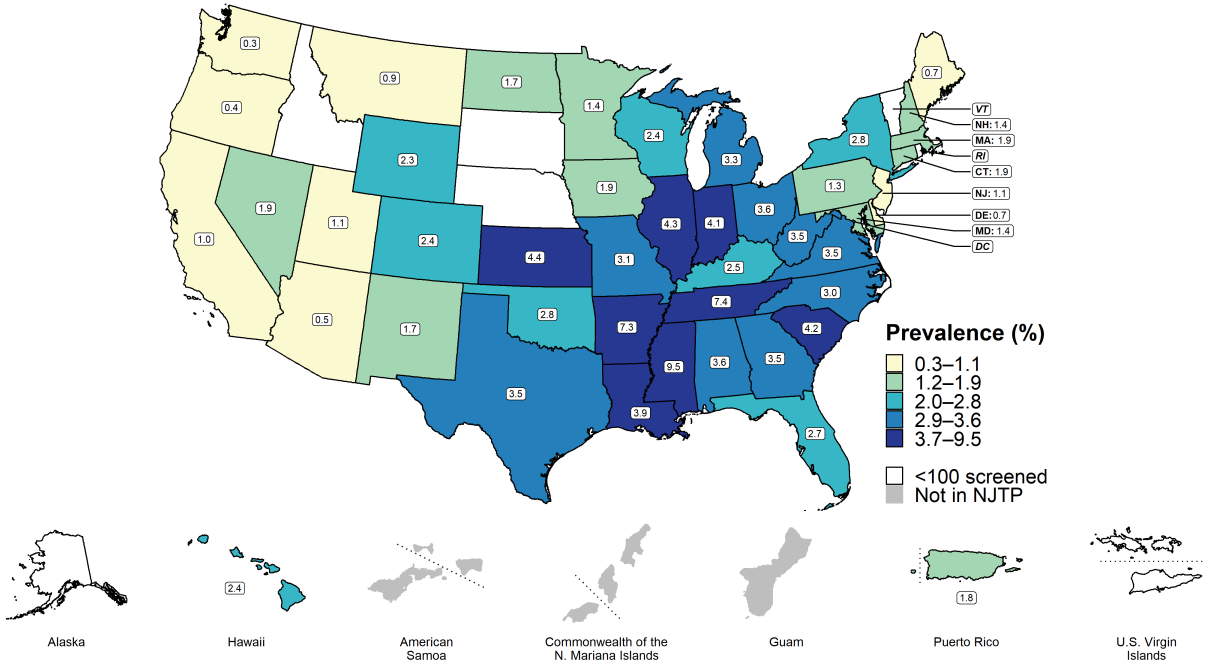
* Fewer than 100 females who resided in these states/areas and entered the National Job Training Program were screened for chlamydia in 2019

Chlamydia — Prevalence Among Males Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Territories, 2019



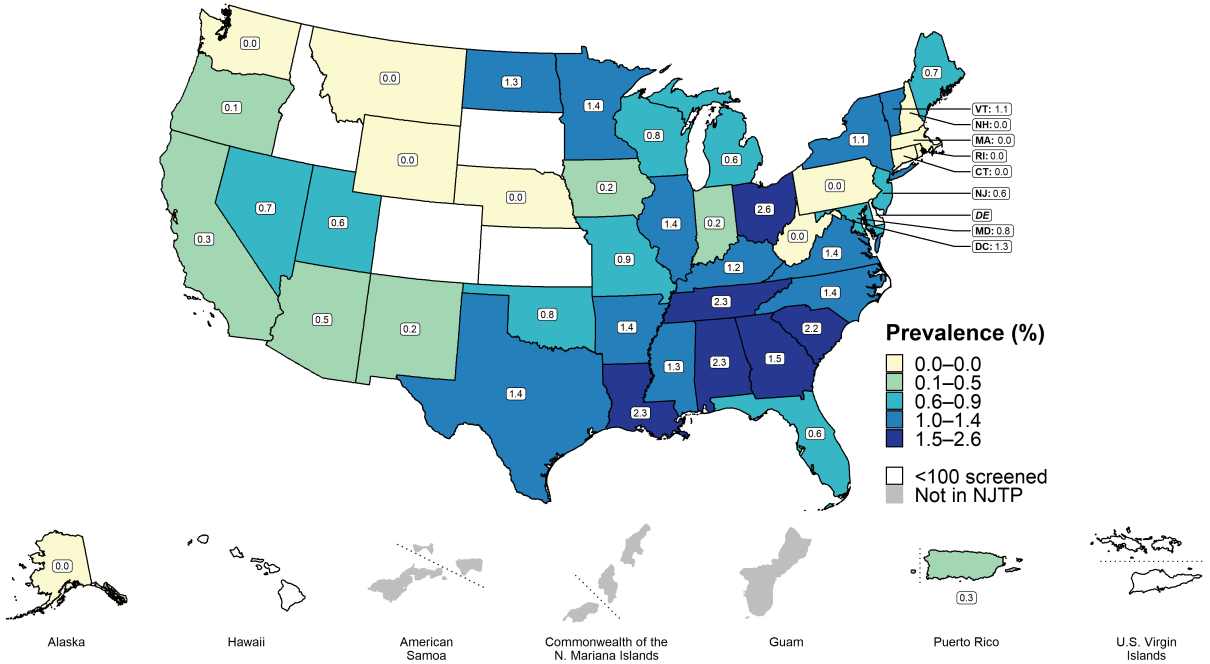
* Fewer than 100 males who resided in these states/areas and entered the NJTP were screened for chlamydia in 2019

Gonorrhea — Prevalence Among Females Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Territories, 2019



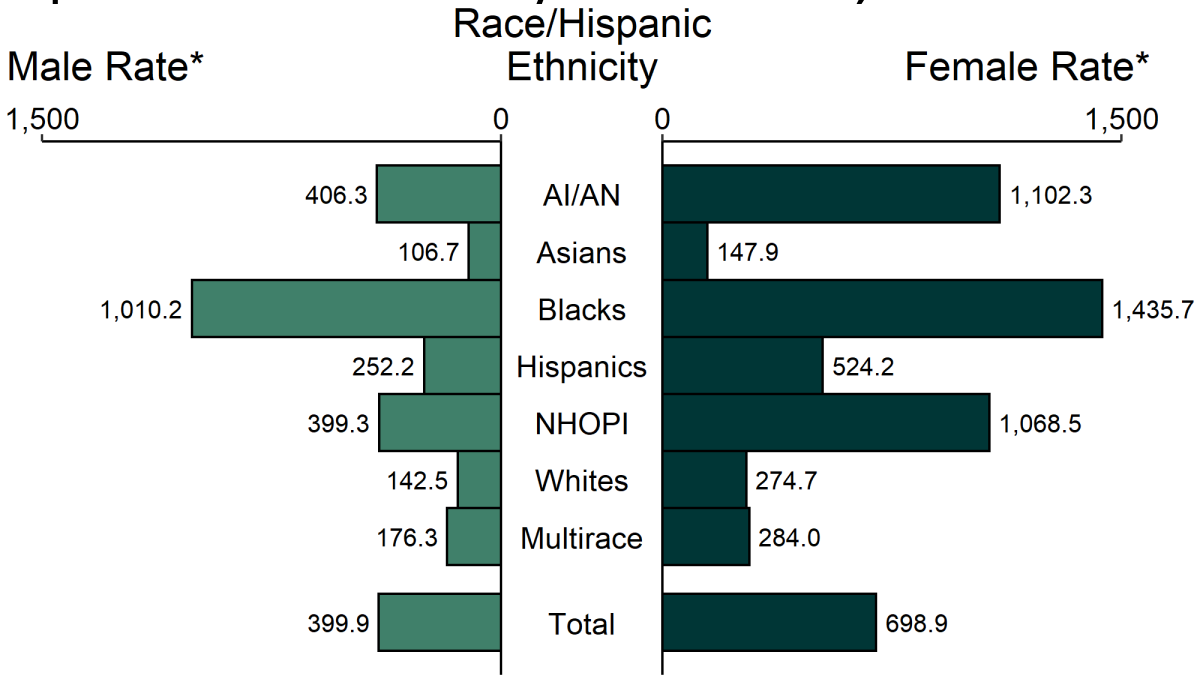
* Fewer than 100 females who resided in these states/areas and entered the National Job Training Program were screened for gonorrhea in 2019

Gonorrhea — Prevalence Among Males Aged 16–24 Years Entering the National Job Training Program by State of Residence, United States and Territories, 2019



* Fewer than 100 males who resided in these states/areas and entered the National Job Training Program were screened for gonorrhea in 2019

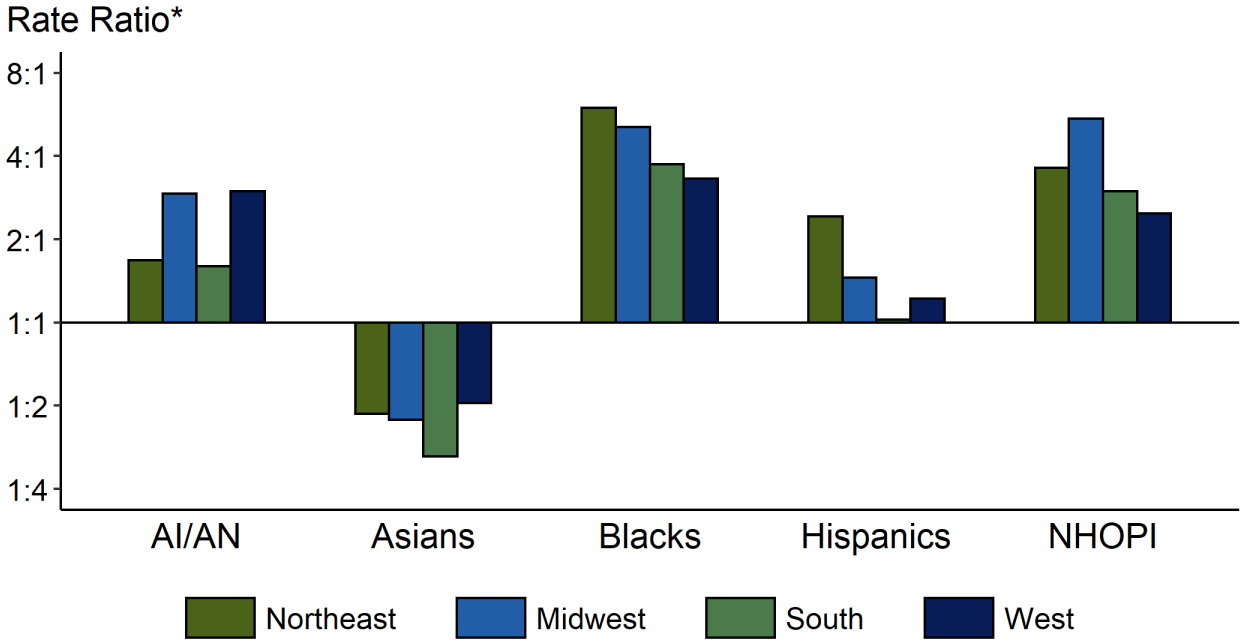
Chlamydia — Rates of Reported Cases by Race/Hispanic Ethnicity and Sex, United States, 2019



* Per 100,000

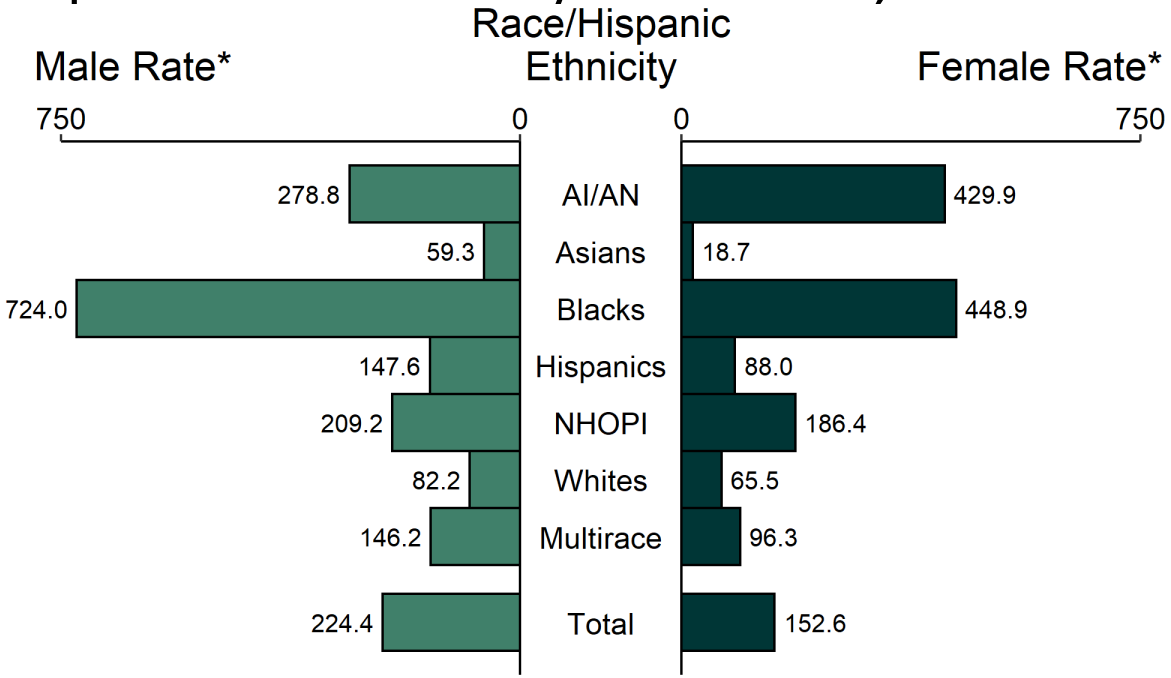
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Chlamydia — Rate Ratios Among Females Aged 15–24 Years by Race/Hispanic Ethnicity and Regior



* For the rate ratios, Whites are the reference population. Y-axis is log scale.

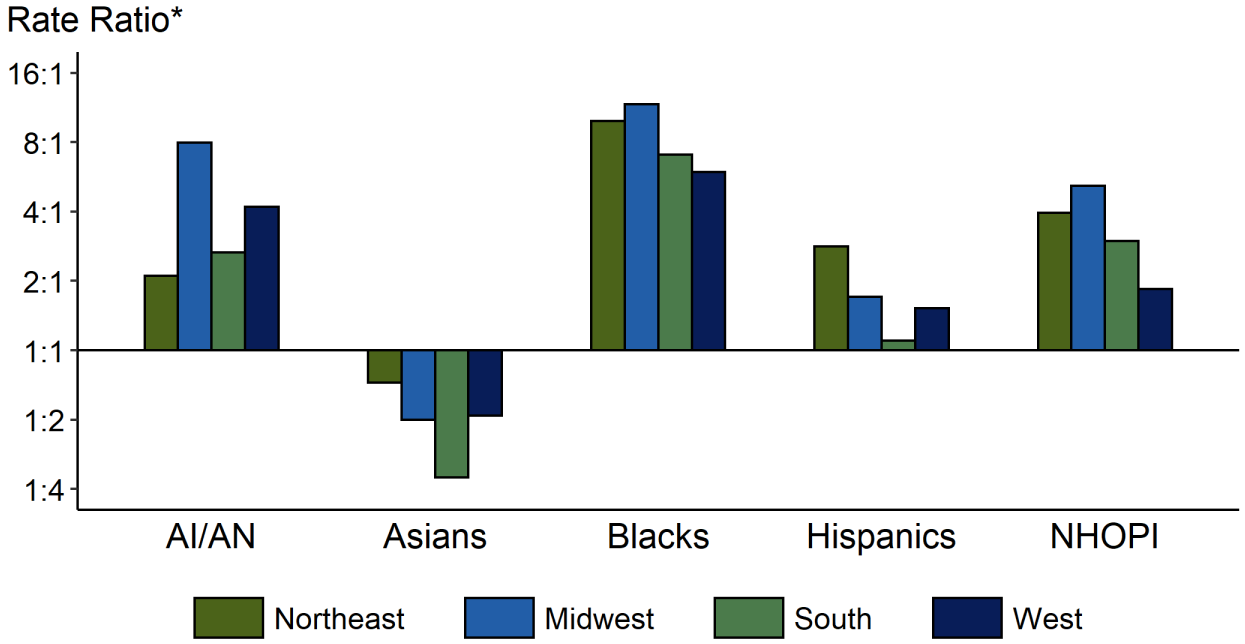
Gonorrhea — Rate of Reported Cases by Race/Hispanic Ethnicity and Sex, United States, 2019



* Per 100,000

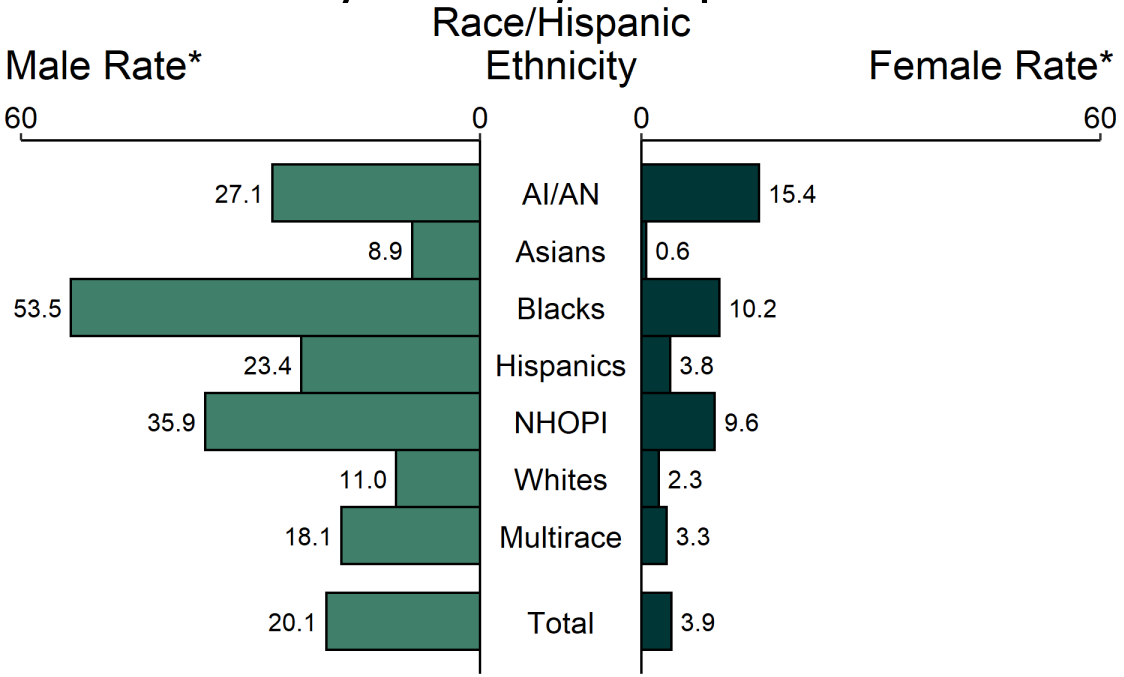
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Gonorrhea — Rate Ratios by Race/Hispanic Ethnicity and Region, United States, 2019



* For the rate ratios, Whites are the reference population. Y-axis is log scale.

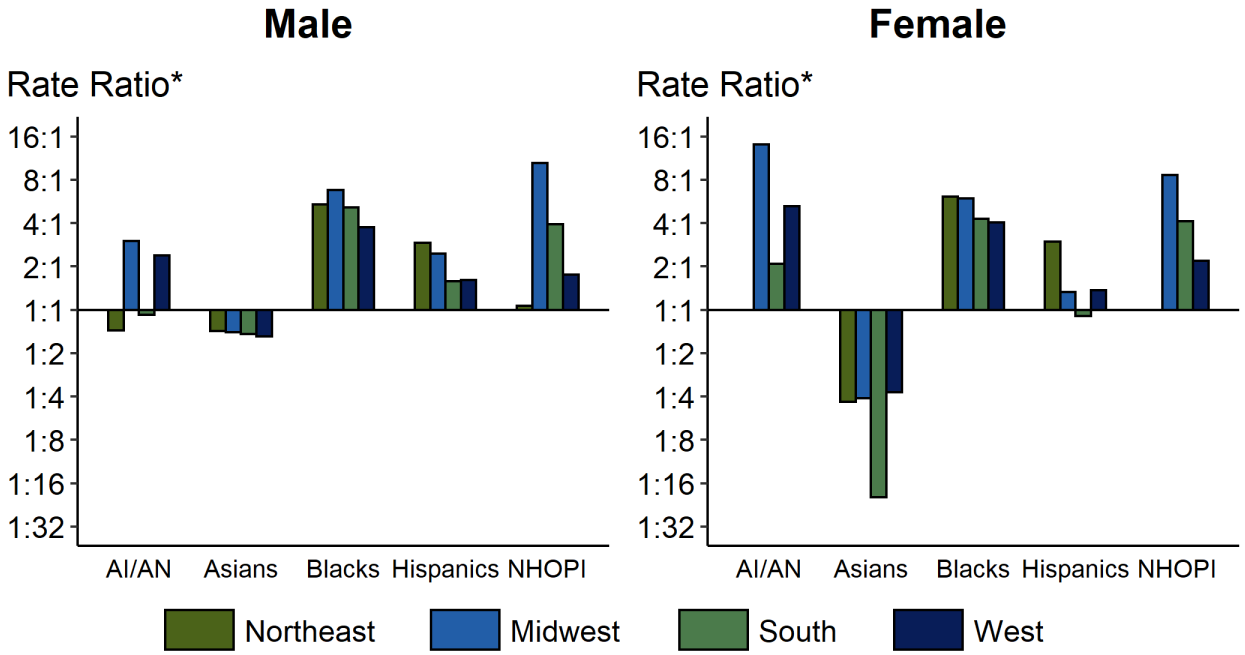
Primary and Secondary Syphilis — Rates of Reported Cases by Race/Hispanic Ethnicity and Sex, U



* Per 100,000

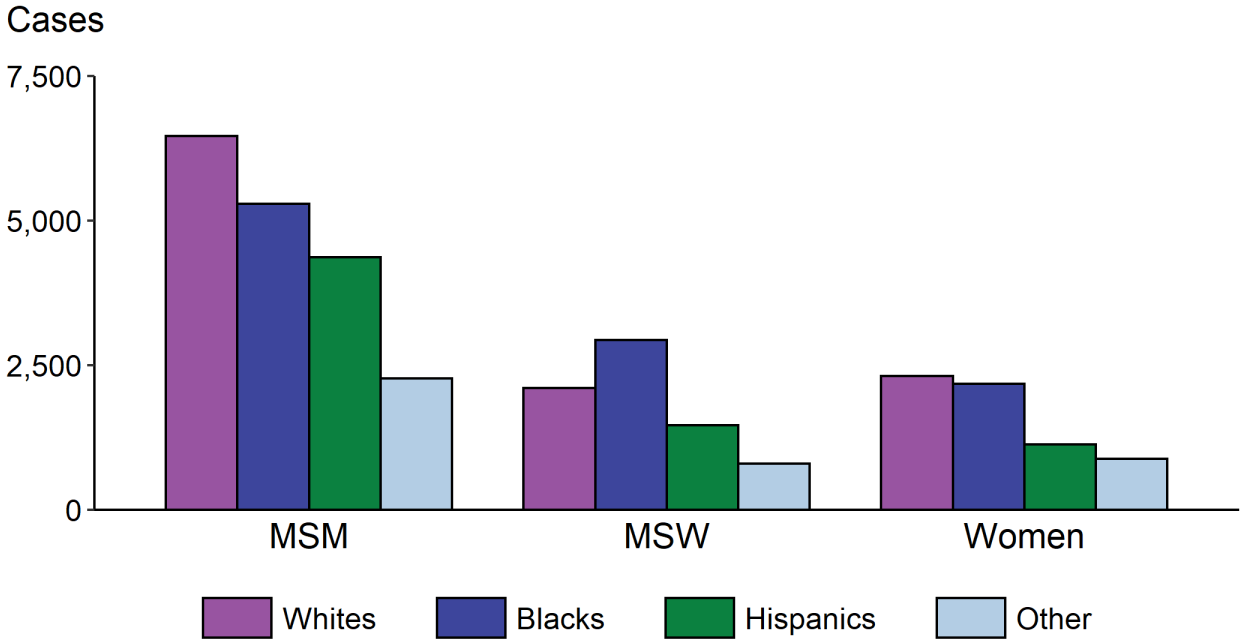
ACRONYMS: AI/AN = American Indians/Alaska Natives;

Primary and Secondary Syphilis — Rate Ratios by Sex, Race/Hispanic Ethnicity, and Region, Unitec



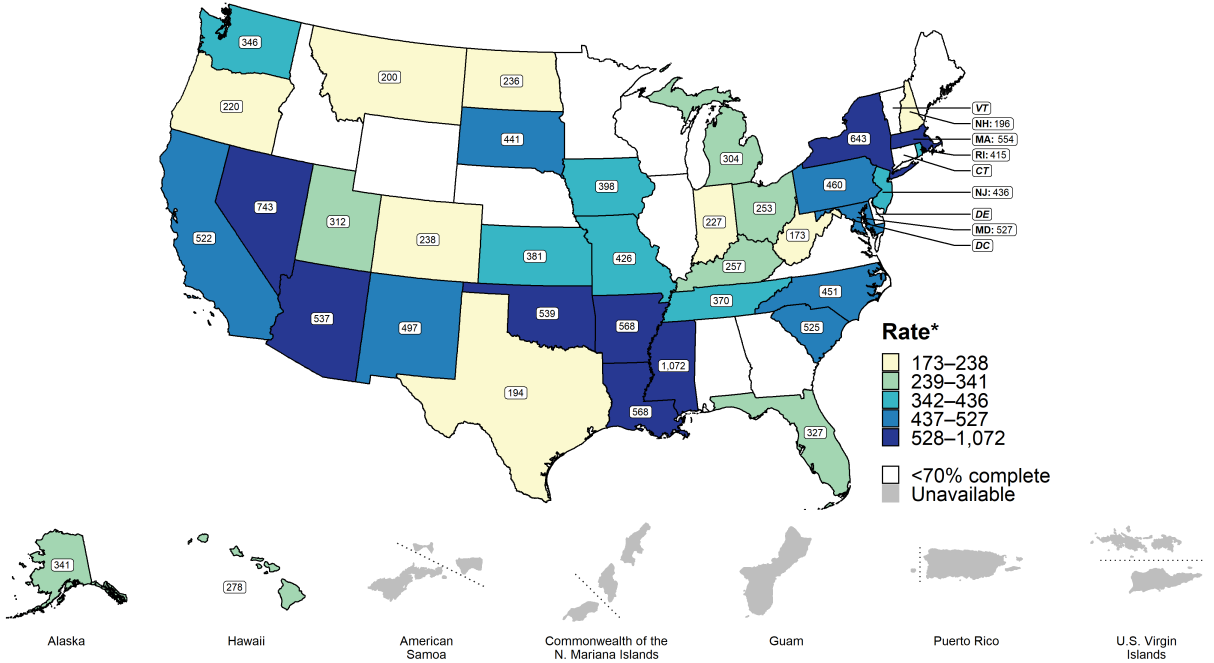
* For the rate ratios, Whites are the reference population. Y-axis is log scale.

Primary and Secondary Syphilis — Reported Cases by Sex, Sex of Sex Partners, Race, and Hispar



- **NOTE:** Of all reported cases of primary and secondary syphilis, 17.3% were among men without data on sex of sex partners, and 0.3% were cases with unknown sex;

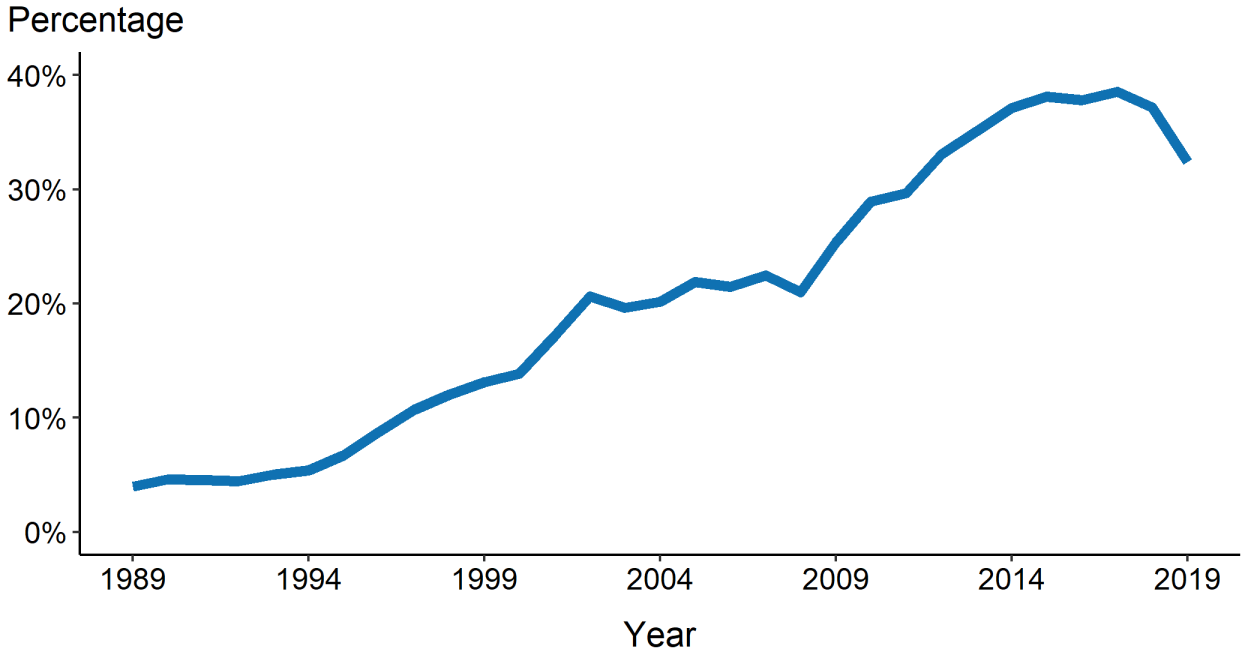
Primary and Secondary Syphilis — Estimated Rates of Reported Cases Among MSM by State, Unitec



* Per 100,000

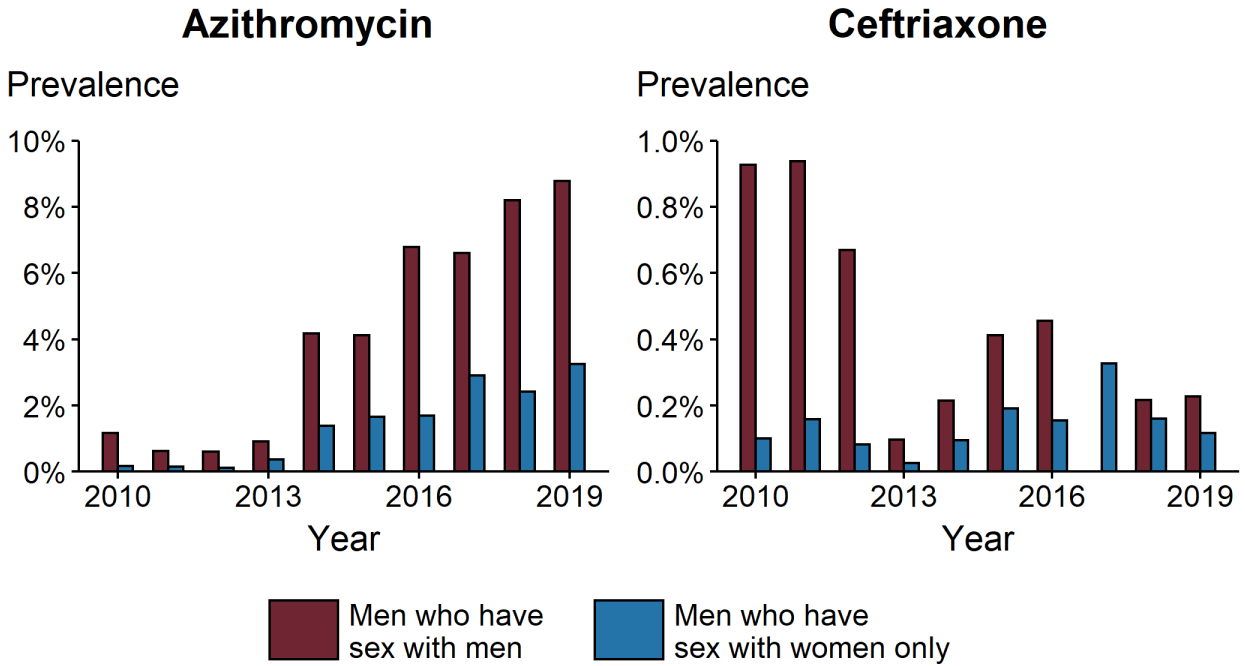
NOTE: States reporting <70% of male cases identified as

Neisseria gonorrhoeae — Percentage of Urethral Isolates Obtained from MSM Attending STD Clinics, Gonococcal Isolate Surveillance Project (GISP), 1989–2019



ACRONYMS: MSM = Gay, bisexual, and other men who have sex with men

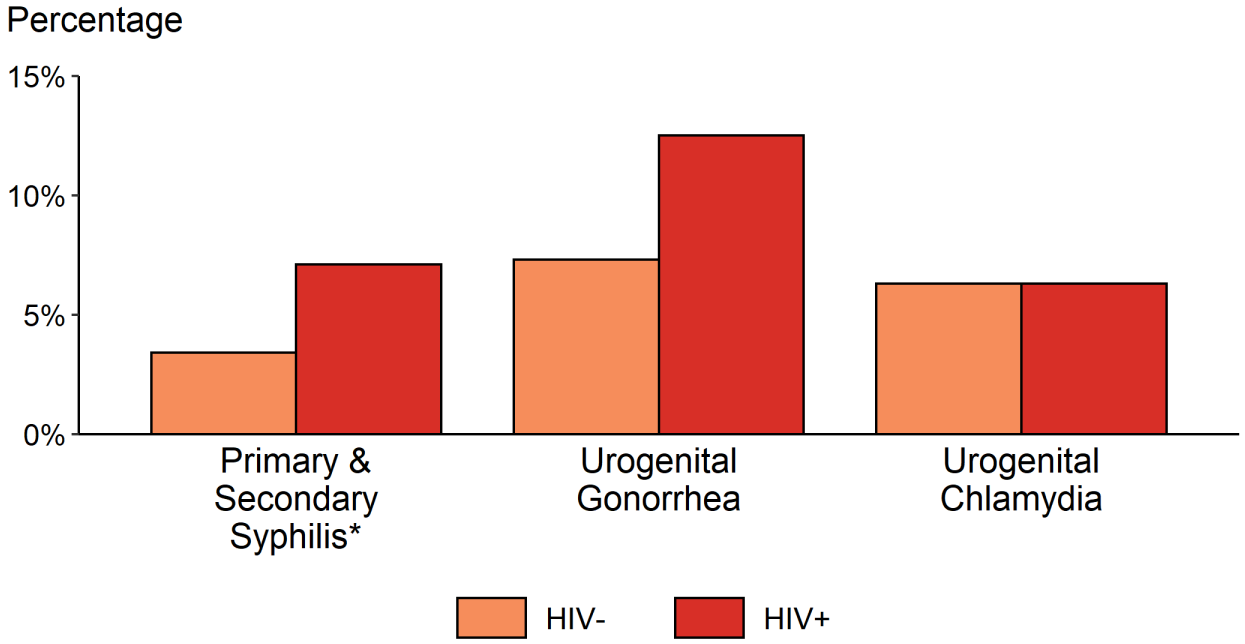
Neisseria gonorrhoeae — Percentage of Urethral Isolates with Elevated Minimum Inhibitory Concentrations (MICs) to Azithromycin* and Ceftriaxone† by Sex and Sex of Sex Partners, Gonococcal Isolate Surveillance Project (GISP), 2010–2019



* Elevated Azithromycin MIC: ≥2.0 µg/mL

† Elevated Ceftriaxone MIC: ≥0.125 µg/mL

Proportion of HIV negative compared to HIV positive MSM with Primary and Secondary Syphilis*, Urogenital Gonorrhea, or Urogenital Chlamydia, STD Surveillance Network (SSuN), 2019



* Includes SSuN jurisdictions that reported data on ≥20 patients with a diagnosis of primary and secondary syphilis in 2019

Reference Map of U.S. Census Regions