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www.STDSanDiego.org



SEXUALLY TRANSMITTED DISEASES IN SAN DIEGO COUNTY 2018 DATA SLIDES

*County of San Diego
Health and Human Services Agency
Division of Public Health Services
HIV, STD, and Hepatitis Branch*





Preface

This publication, *Sexually Transmitted Diseases in San Diego County, 2018 Data Slides*, includes reported disease data collected through 2018 for chlamydia, gonorrhea and syphilis. All tables and figures published here supersede those in prior publications.

This slide set provides a comprehensive picture of reported sexually transmitted disease (STD) trends and current morbidity in San Diego. These data are compiled to guide policy and program development within the County of San Diego HIV, STD and Hepatitis Branch, local STD programs, and other public health agencies.

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Suggested Citation

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Case Counts and Rates



- These slides include **case counts** and **rates** of reportable STDs.
- Rates take population size into account and indicate the impact of STDs on a group or population.
- In this report, rates are expressed as the number of cases per 100,000 persons in a group or population.
- Population estimate source: 2018 Preliminary Population Estimates; County of San Diego, Health and Human Services Agency, Public Health Services Division, Community Health Statistics Unit. 7/2019.
- The following is an example of the difference between cases and rates:

Region	Case Count	Population	Rate per 100,000 <i>$\frac{\text{Case Count} * 100,000}{\text{Population}}$</i>
A	10,000	200,000	5,000
B	10,000	100,000	10,000

Despite having the same number of affected individuals (10,000), the rate for Region B is higher than Region A because there are fewer inhabitants. Accounting for the population size allows for a more consistent comparison of the level of disease per person between regions.

STD/HIV Screening Recommendations

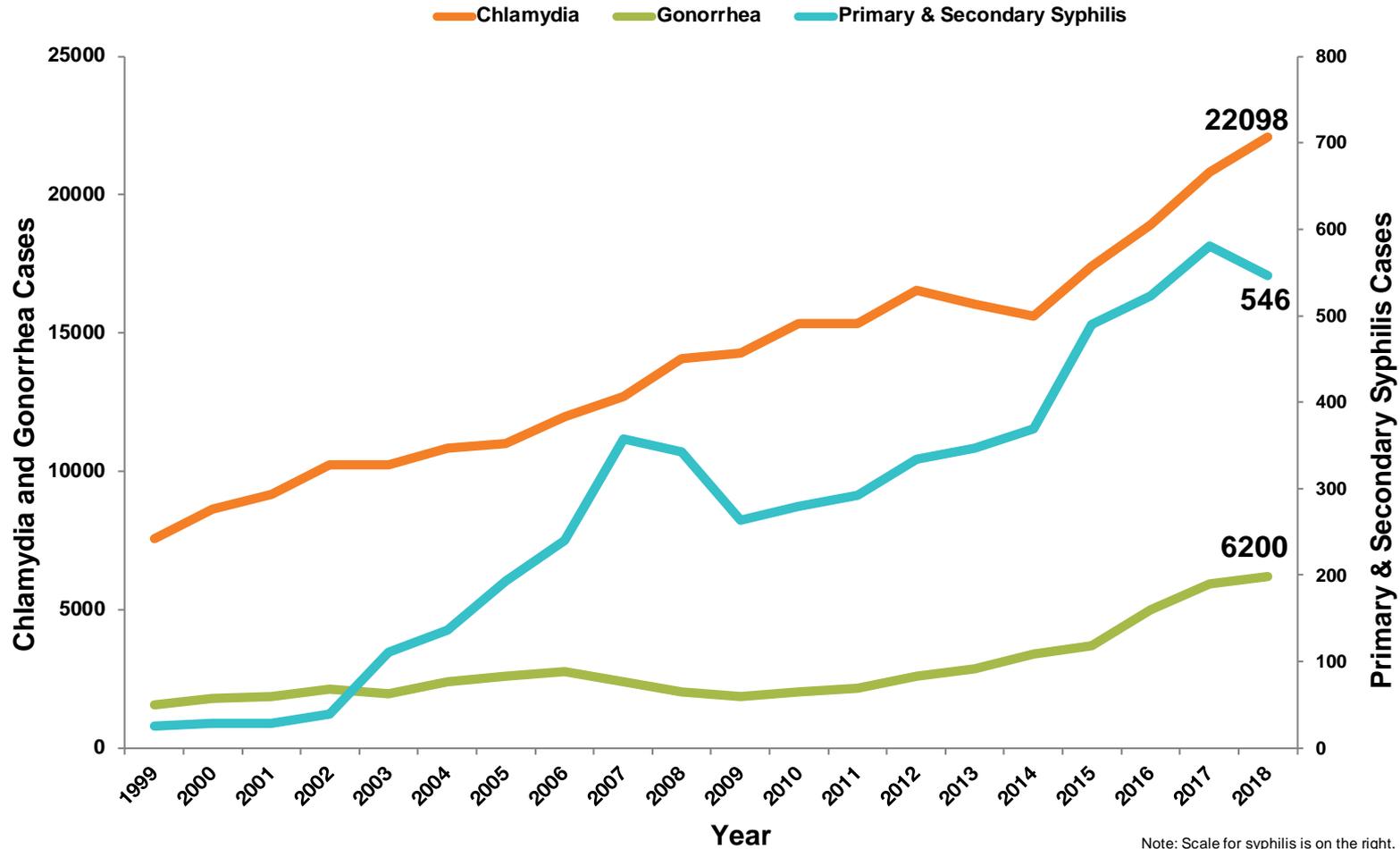
United States Preventive Services Task Force

- Chlamydia and gonorrhea screening in sexually active females aged 24 years and younger (Grade B)
- Chlamydia and gonorrhea screening in sexually active females aged 25 years and older with risk factors (Grade B)
- Screening for syphilis in persons who are at increased risk for infection (Grade A)
- Early screening for syphilis in all pregnant women (Grade A)
- Screening for HIV infection of adolescents and adults aged 15 to 65 years, and younger adolescents and older adults at increased risk of infection (Grade A)
- Screening for HIV infection in all pregnant women (Grade A)
- Offering of pre-exposure prophylaxis (PrEP) to persons who are at high risk of HIV acquisition (Grade A)

Source: <https://www.uspreventiveservicestaskforce.org>



STDs Reported Among San Diego County Residents, 1999 - 2018



Note: Scale for syphilis is on the right.



Chlamydia



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Key Points

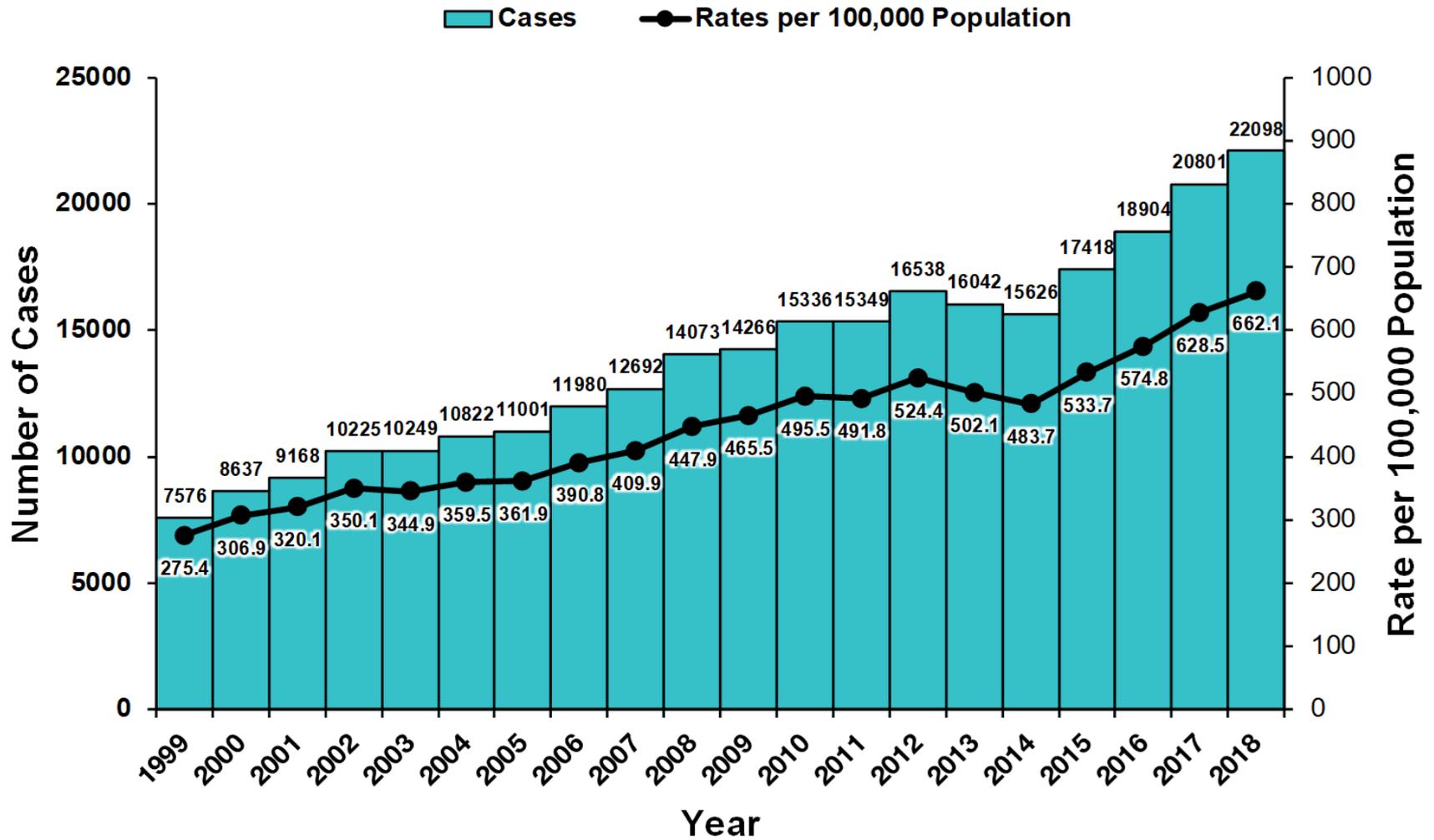
Chlamydia in San Diego County

- Chlamydia is the most commonly reported disease in San Diego County and in California.
- Cases of chlamydia increased by 6.2% from 20,801 cases in 2017 to 22,098 cases in 2018.
- The overall rate of chlamydia increased by 5.3% from 628.5 cases per 100,000 in 2017 to 662.1 cases per 100,000 in 2018.
- The rate of chlamydia in women is 1.6 times the rate in men.
- Young women, aged 20 to 24 years, have the highest rate of infection.

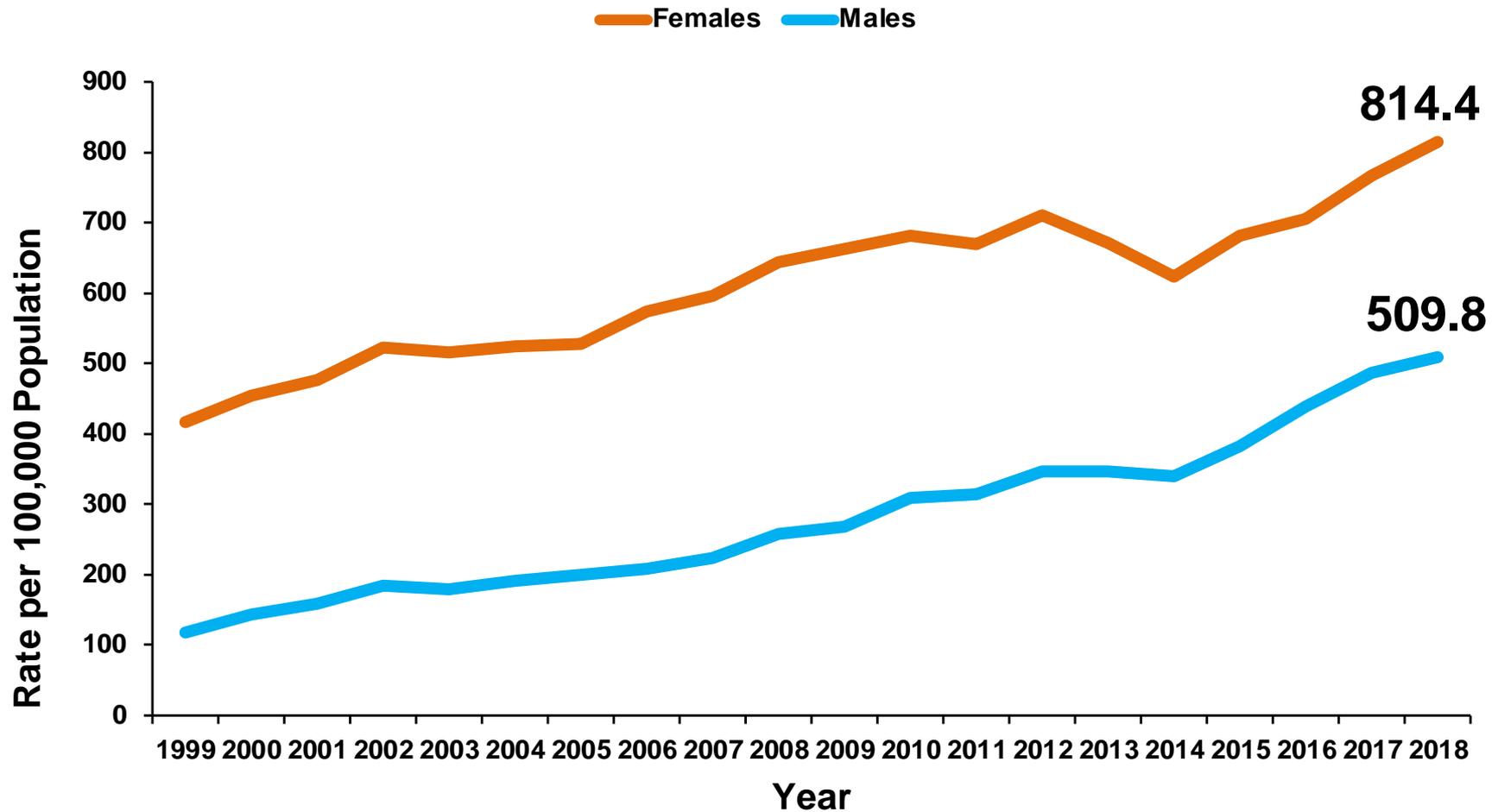


LIVE WELL
SAN DIEGO

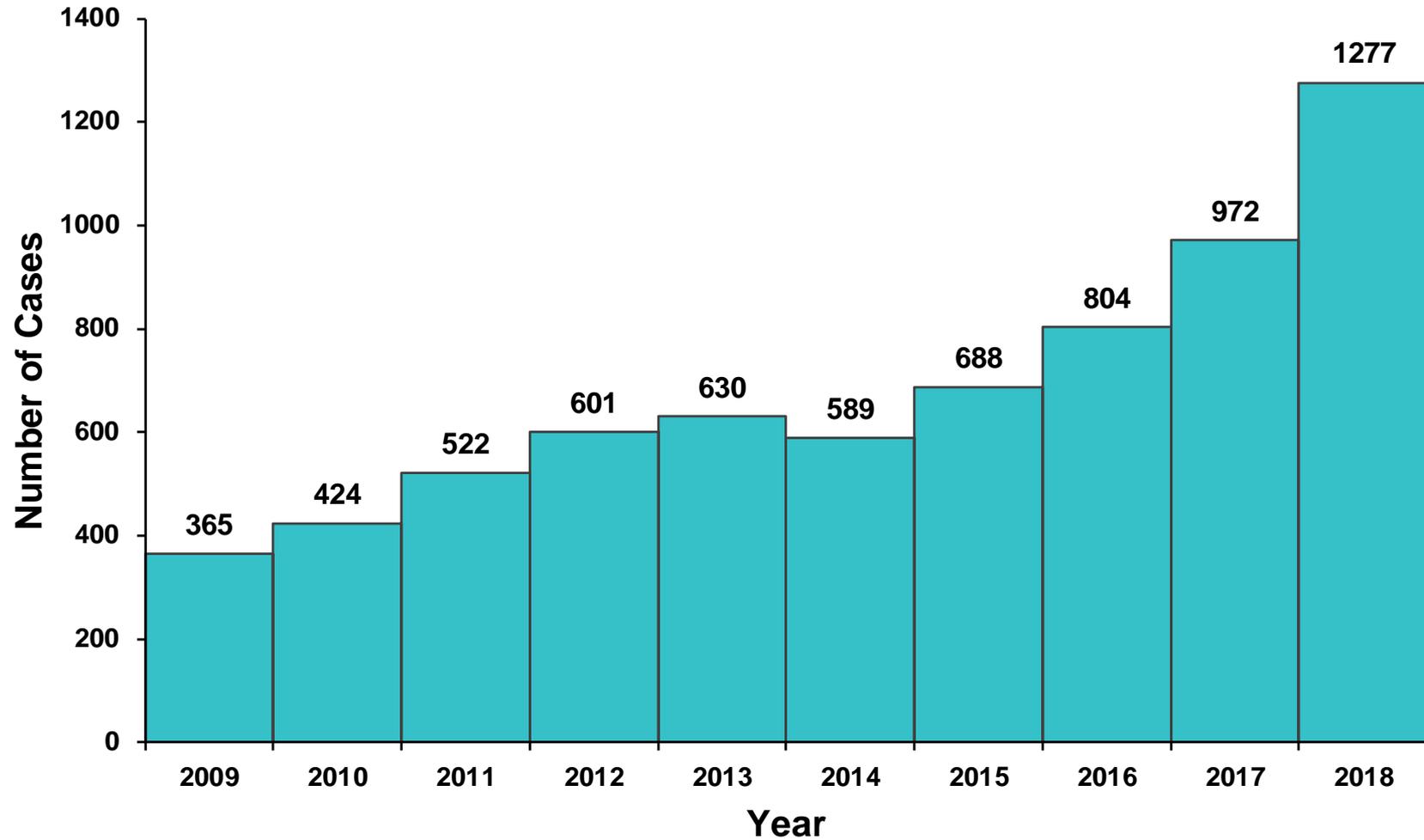
Chlamydia Cases and Rates by Year San Diego County, 1999 - 2018



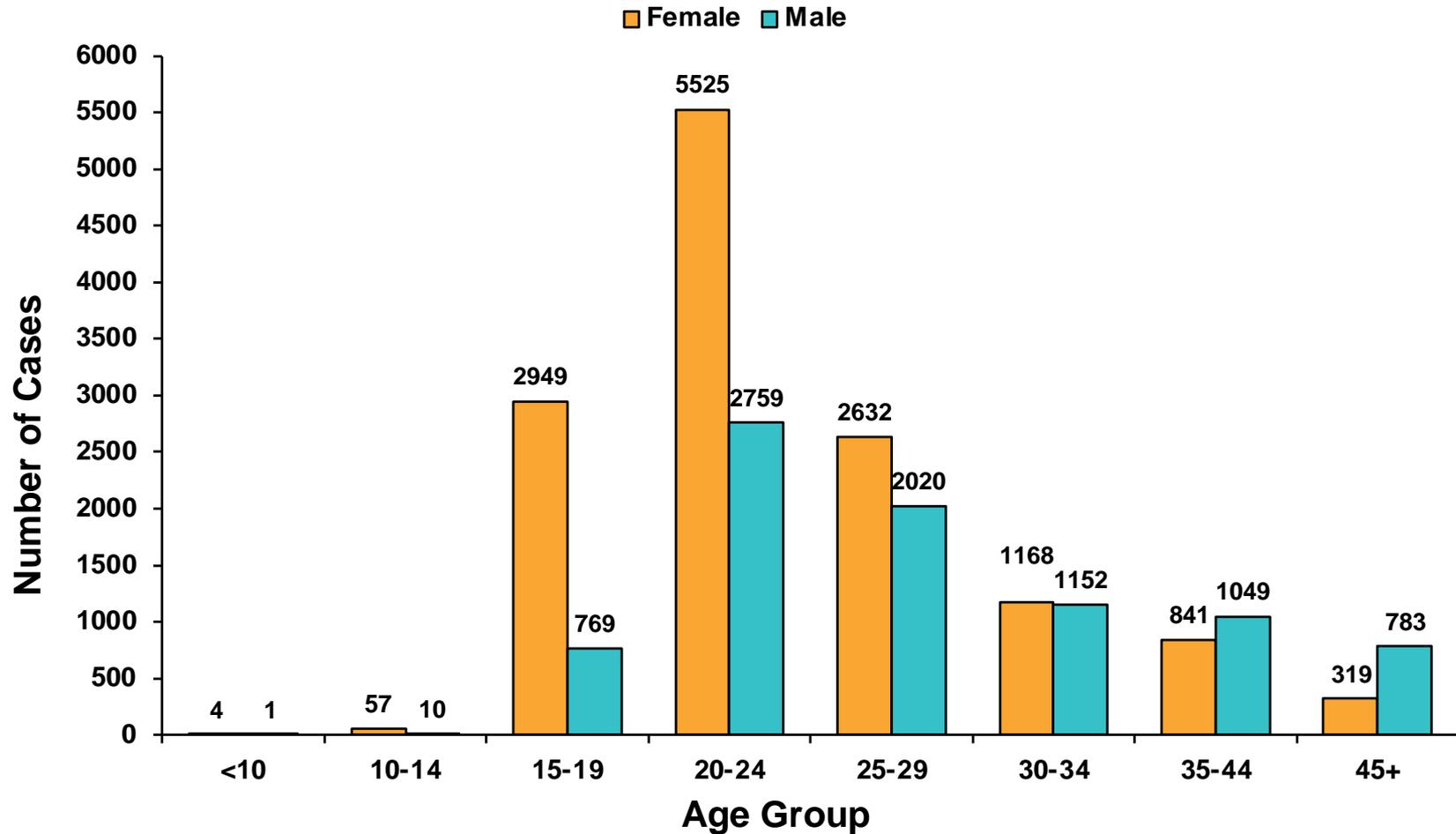
Chlamydia Rates by Gender and Year San Diego County, 1999 - 2018



Rectal or Pharyngeal Chlamydia Infections in Males San Diego County, 2009 - 2018

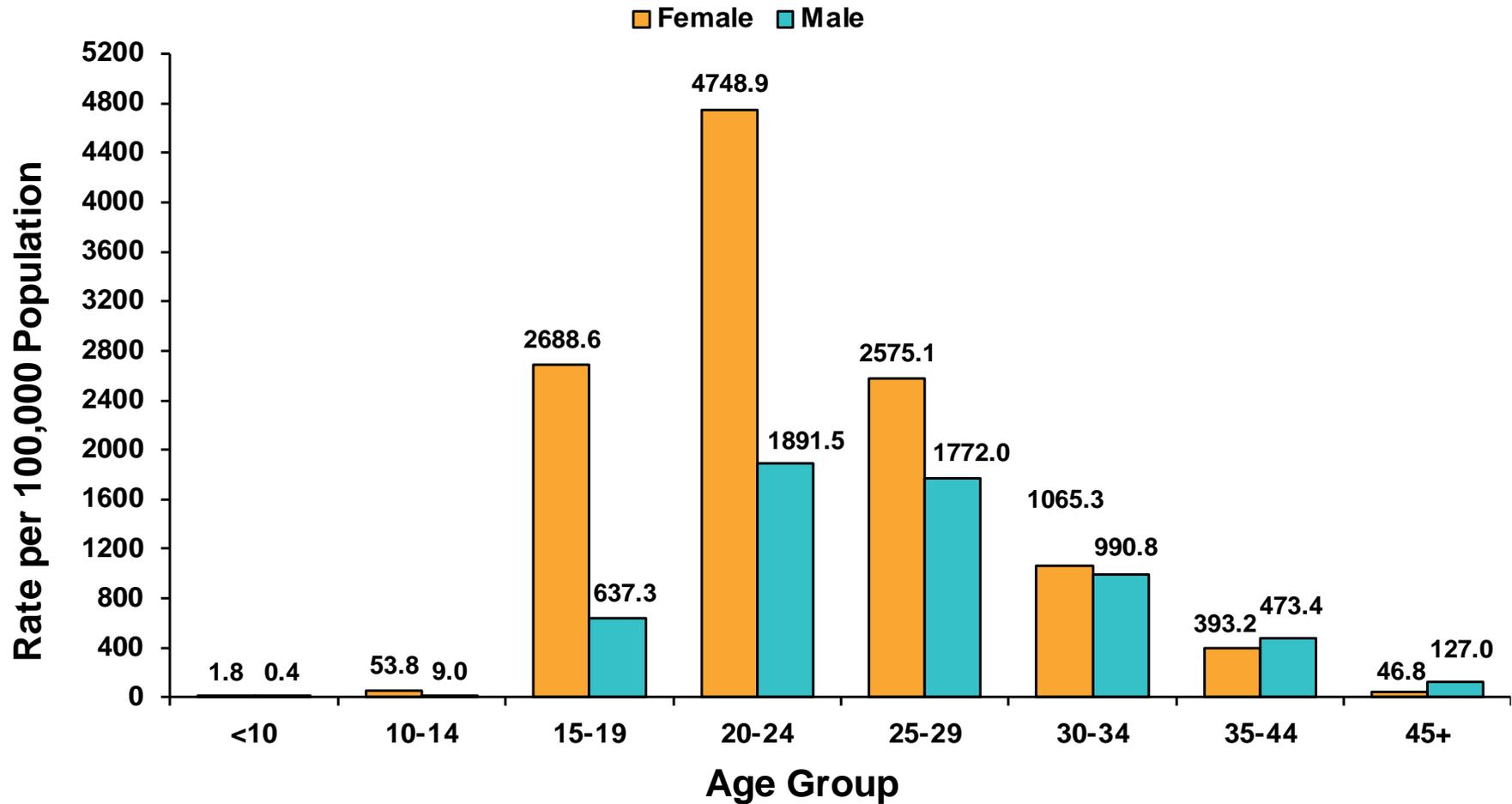


Chlamydia Cases by Gender and Age San Diego County, 2018



Note: 30 cases were missing gender information and 29 were missing age information. One case was missing both gender and age information.

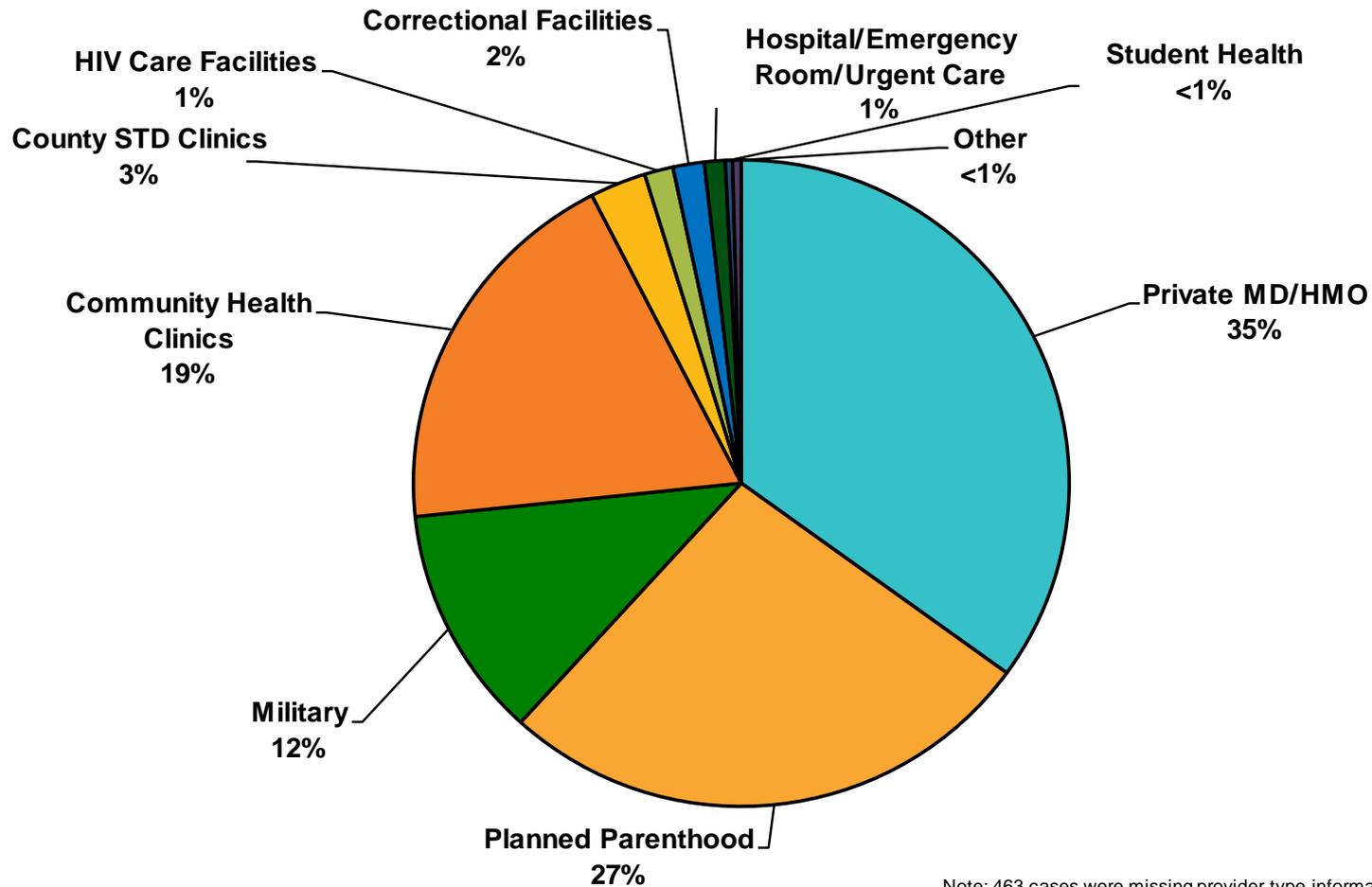
Chlamydia Rates by Gender and Age San Diego County, 2018



Note: Rates exclude 60 cases missing gender or age information.
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.



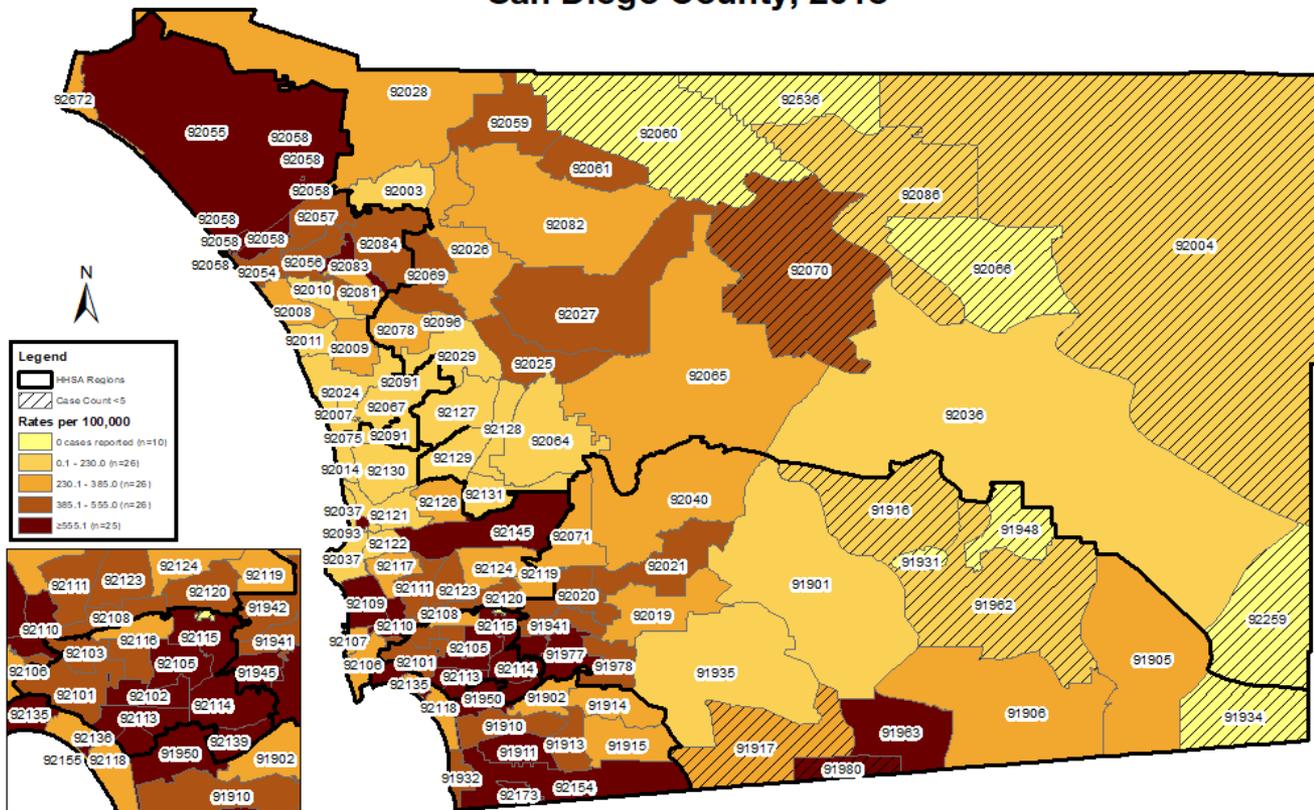
Chlamydia Cases by Reporting Facility Type San Diego County, 2018



Note: 463 cases were missing provider type information.

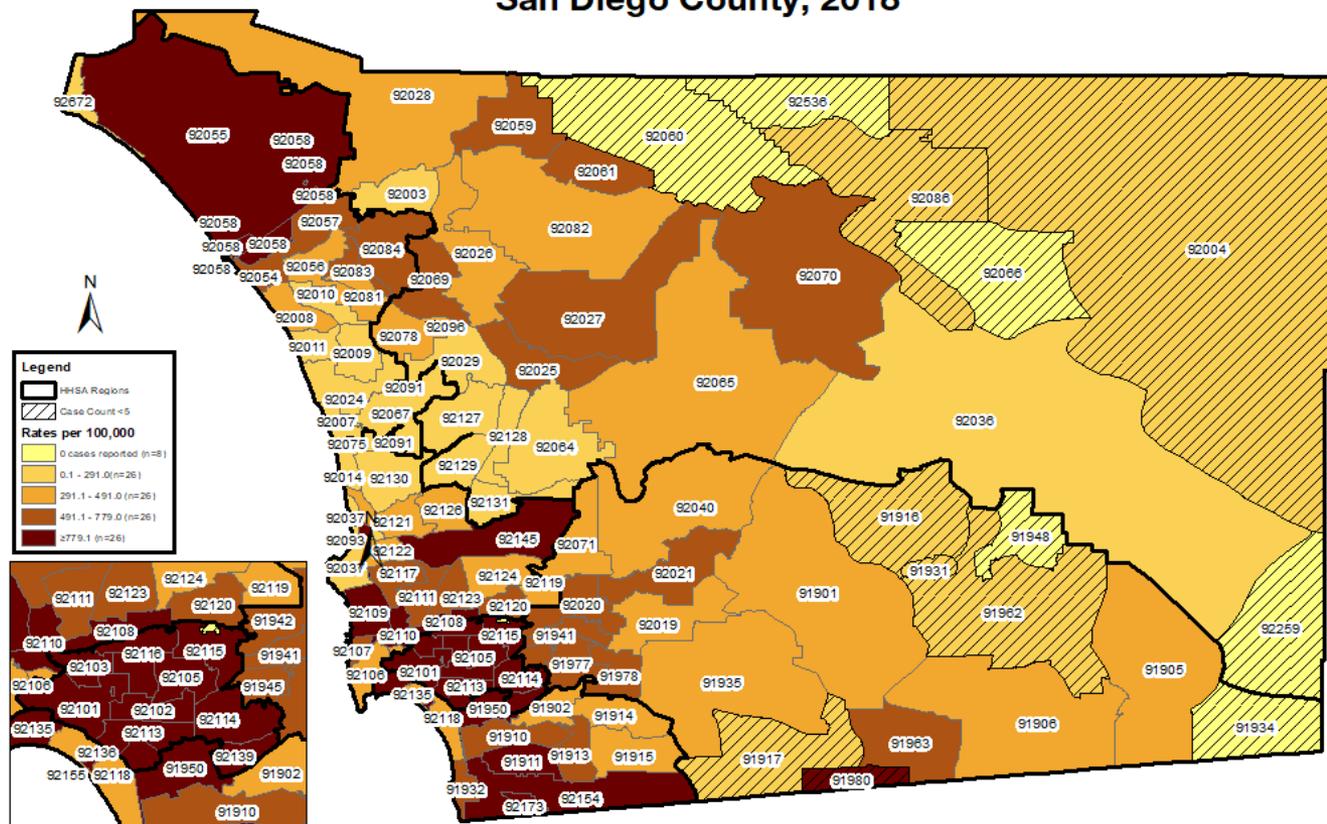


Chlamydia Rates by Zip Code (Persons Aged 15 to 29 Years) San Diego County, 2018





Overall Chlamydia Rates by Zip Code San Diego County, 2018



Gonorrhea



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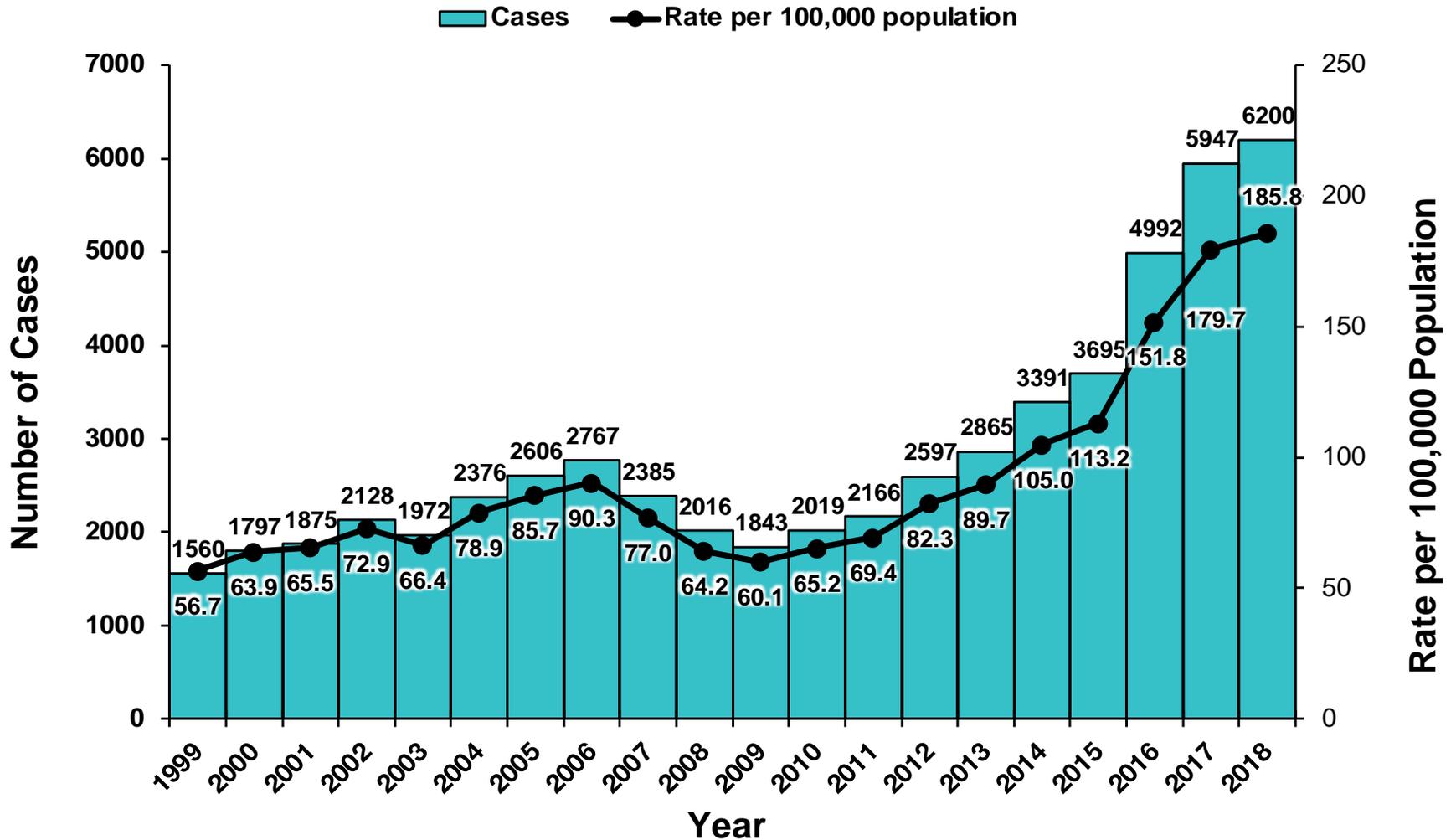
Key Points

Gonorrhea in San Diego County

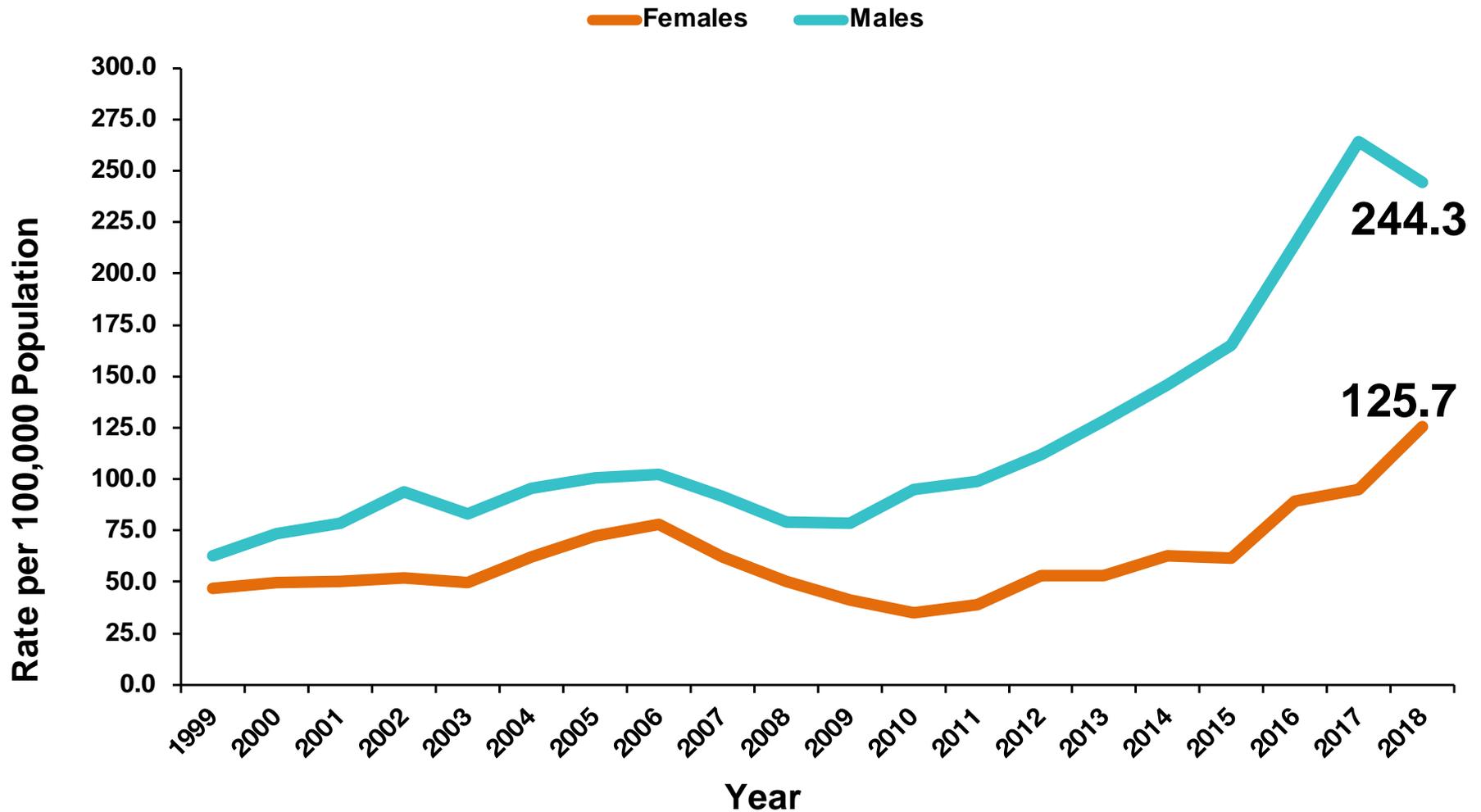
- Cases of gonorrhea increased by 4.3% from 5,947 cases in 2017 to 6,200 cases in 2018.
- The overall rate of gonorrhea increased by 3.4% from 179.7 cases per 100,000 in 2017 to 185.8 cases per 100,000 in 2018.
- The rate of gonorrhea in males is almost two times the rate in females but has decreased by 6.5% between 2017-2018.
- Men aged 20 to 34 years have the highest rates of infection.
- The rate of gonorrhea in African-American/black males is 4.8 times that of white males and 3.4 times that of Hispanic males; the rate of infection in African-American/black females is 5.6 times that of white females and 4.0 times that of Hispanic females.



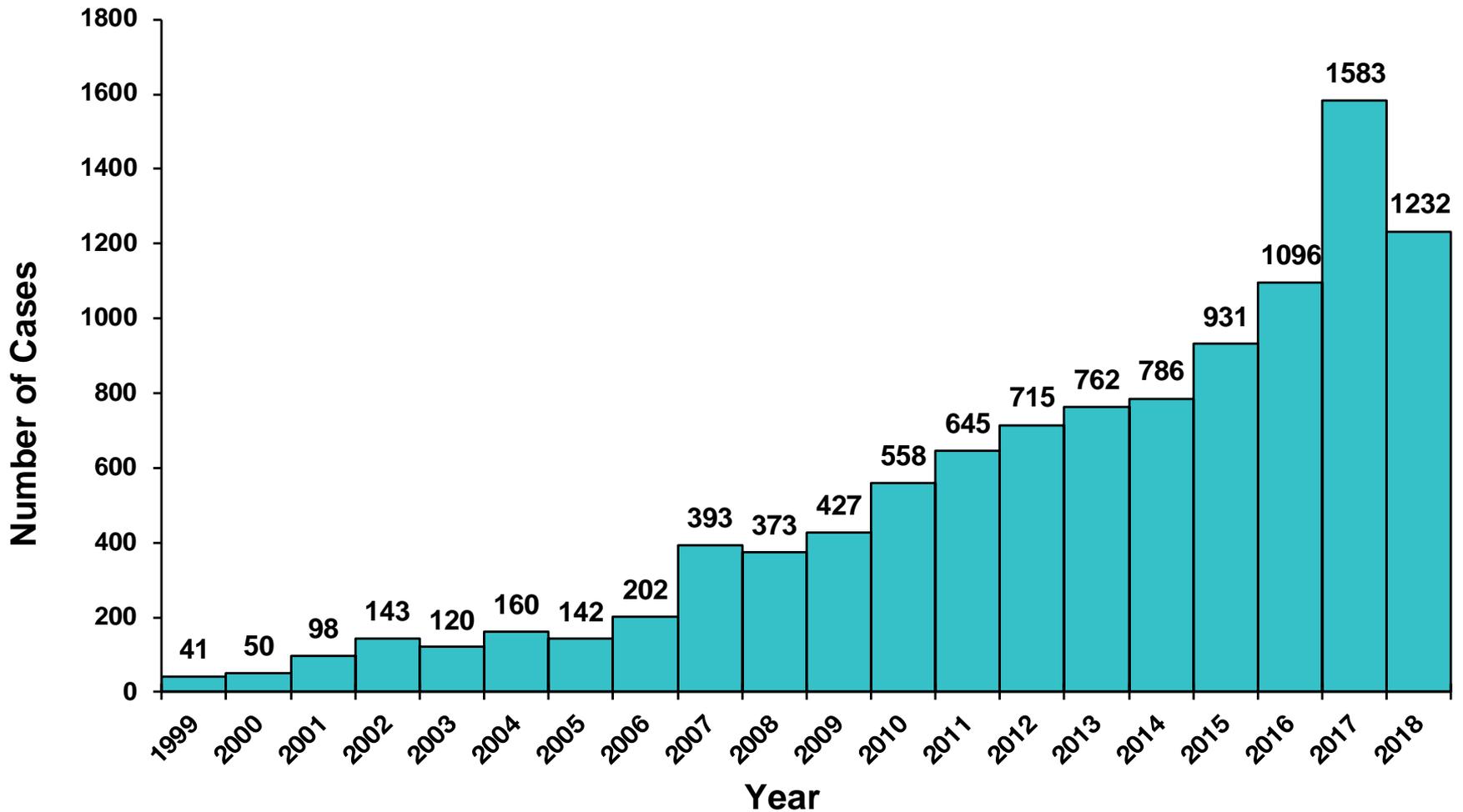
Gonorrhea Cases and Rates by Year San Diego County, 1999 - 2018



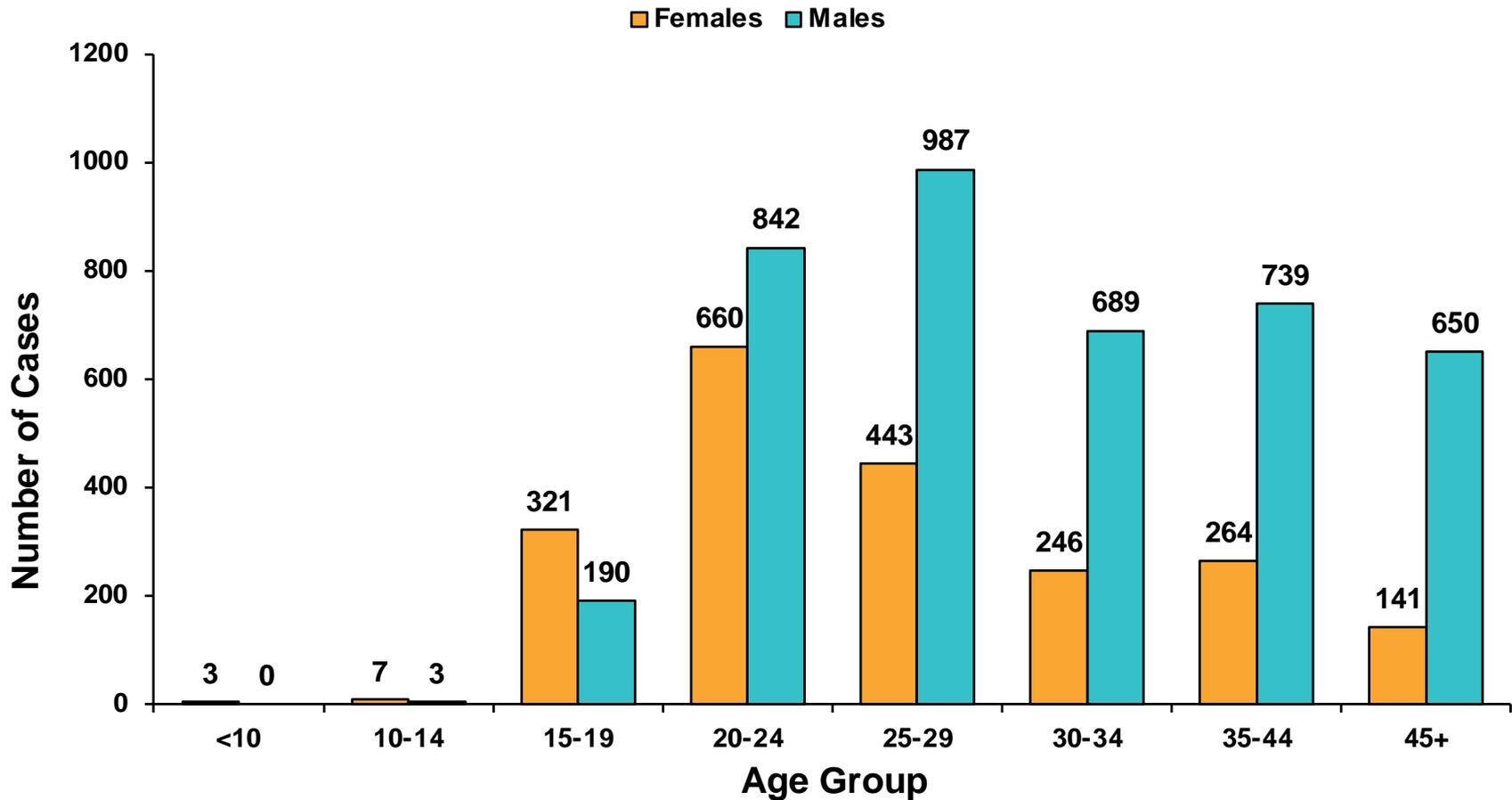
Gonorrhea Rates by Gender and Year San Diego County, 1999 - 2018



Rectal or Pharyngeal Gonorrhea Infections in Males San Diego County, 1999 - 2018

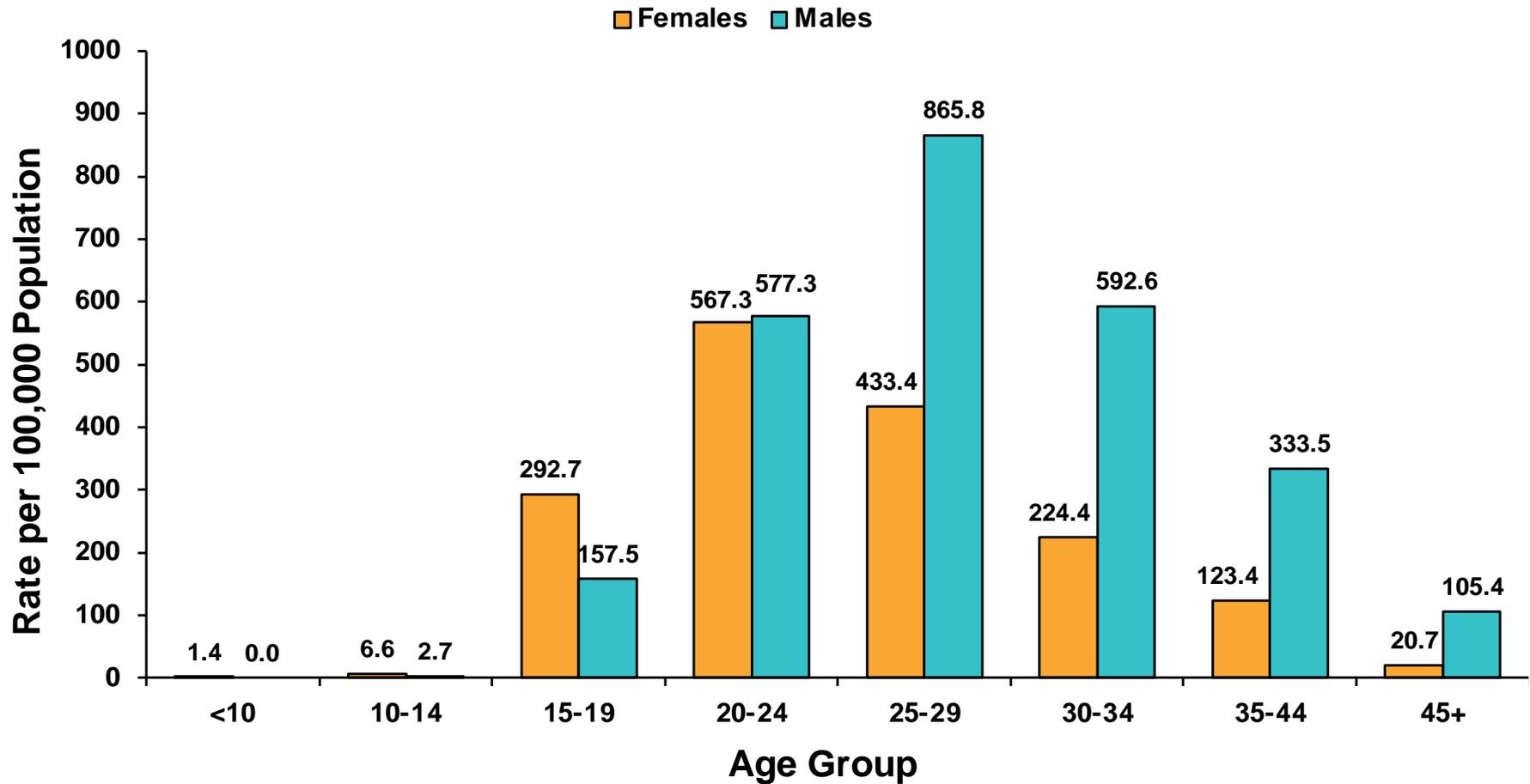


Gonorrhea Cases by Gender and Age San Diego County, 2018



Note: 14 cases were missing gender information and one case was missing age information.

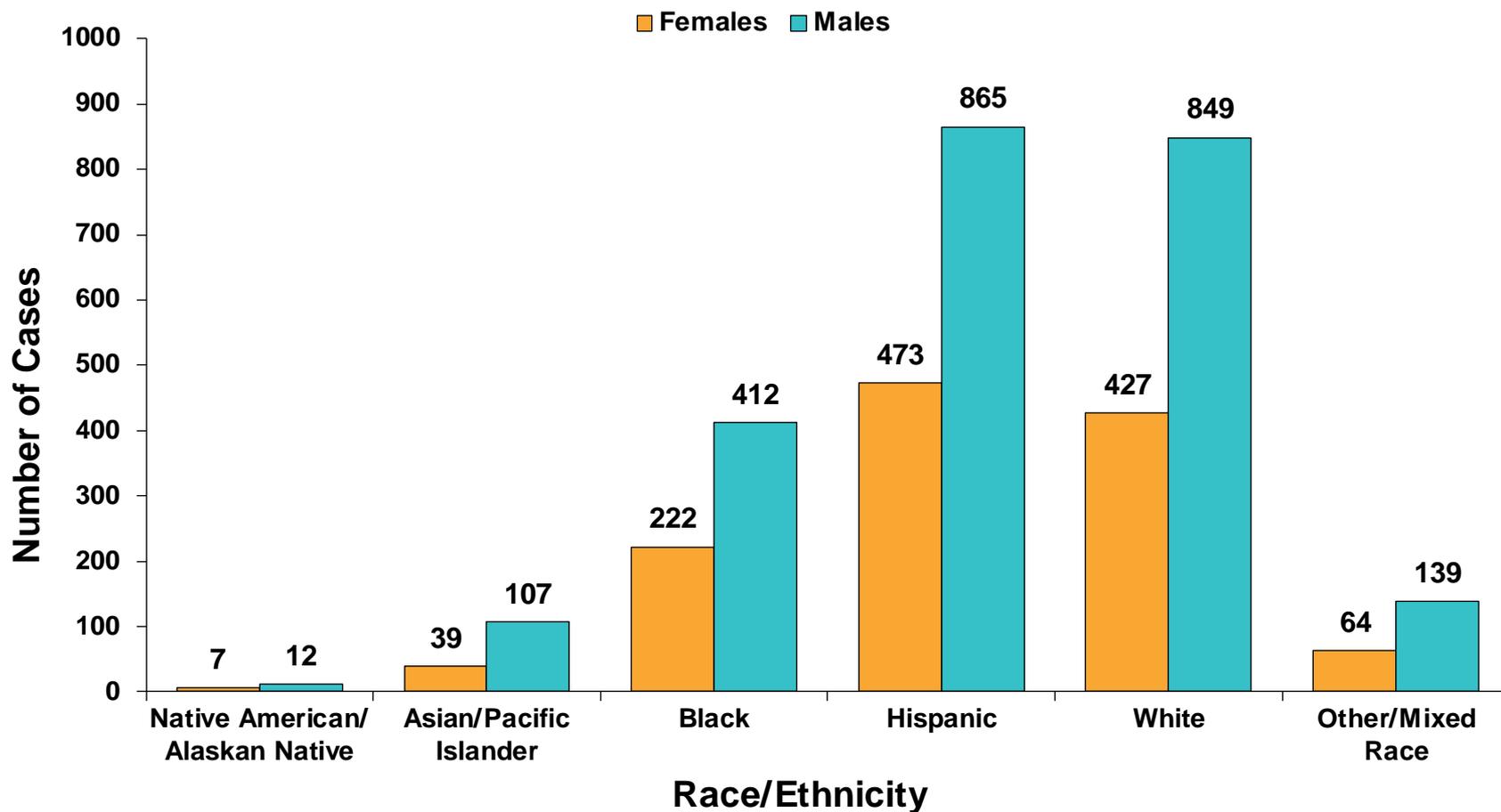
Gonorrhea Rates by Gender and Age San Diego County, 2018



Note: Rates exclude 15 cases missing gender or age information.
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

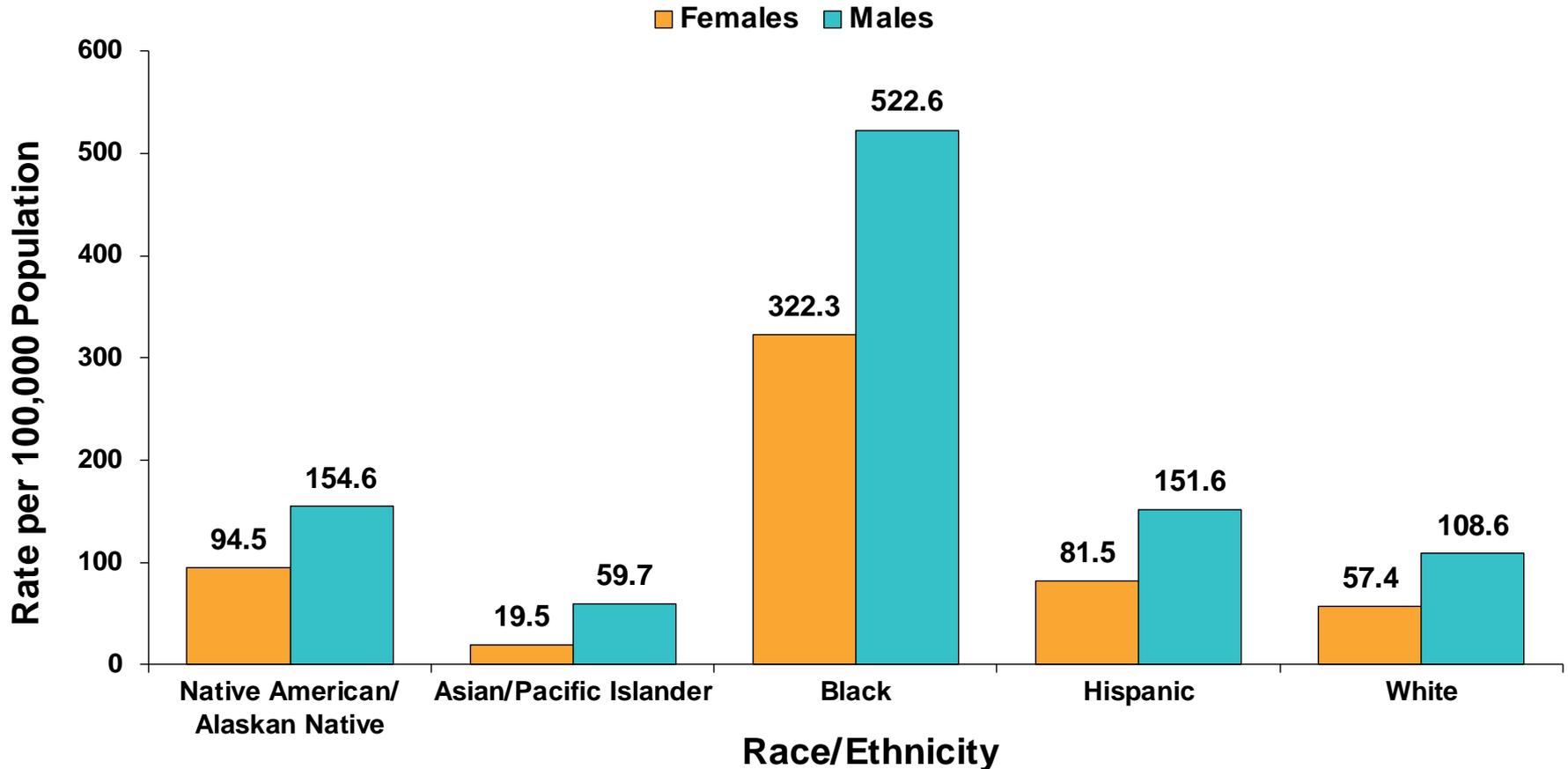


Gonorrhea Cases by Gender and Race/Ethnicity San Diego County, 2018



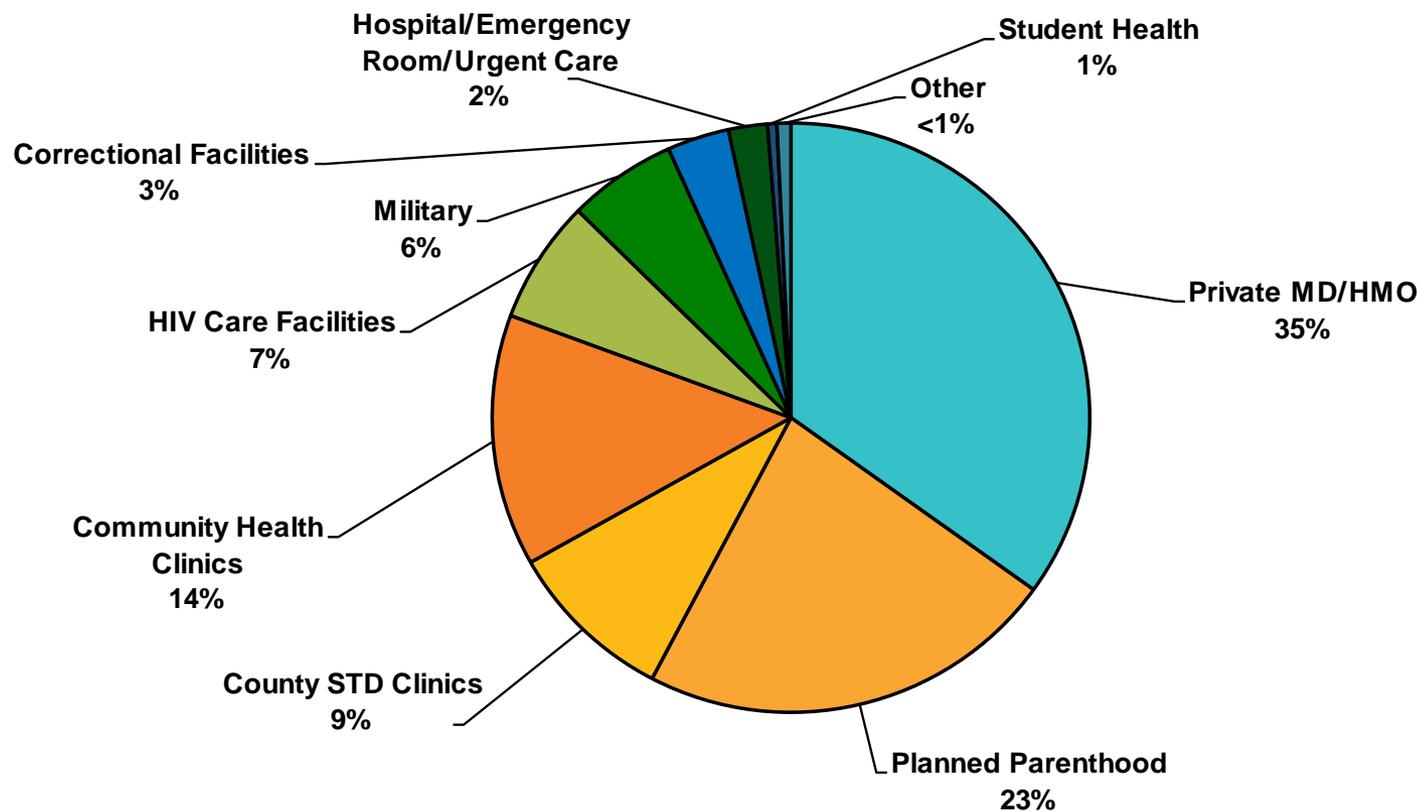
Note: 41.7% of cases are missing race/ethnicity or gender information and are not included in counts above.

Gonorrhea Rates by Gender and Race/Ethnicity San Diego County, 2018



Note: 41.7% of cases are missing race/ethnicity or gender information and are not included in rates above.
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

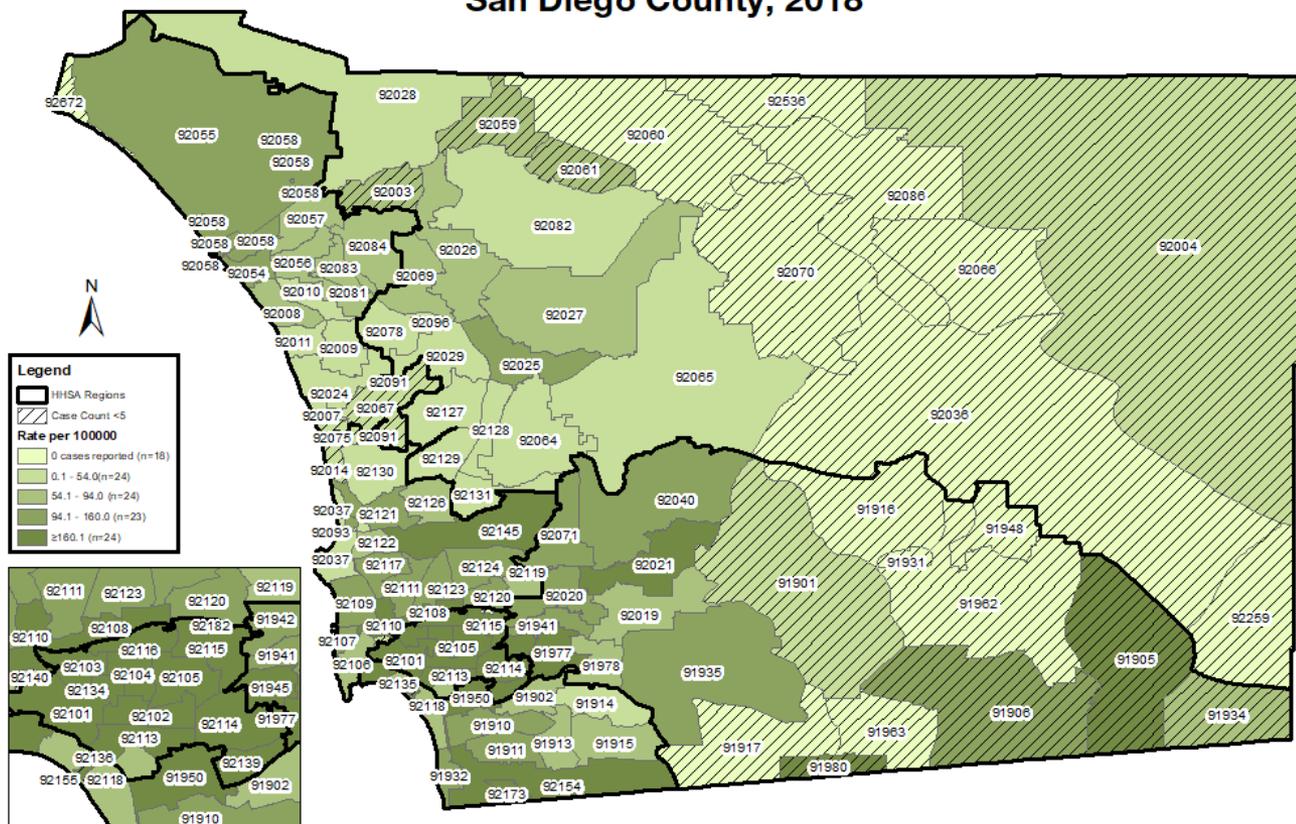
Gonorrhea Cases by Reporting Facility Type San Diego County, 2018



Note: 215 cases were missing provider type information.



Gonorrhea Rates by Zip Code San Diego County, 2018



Source: County of San Diego, Health and Human Services Agency, HSHB (HIV, STD, Hepatitis Branch), CaREDIE Database
Map Date: August 12, 2019

Syphilis



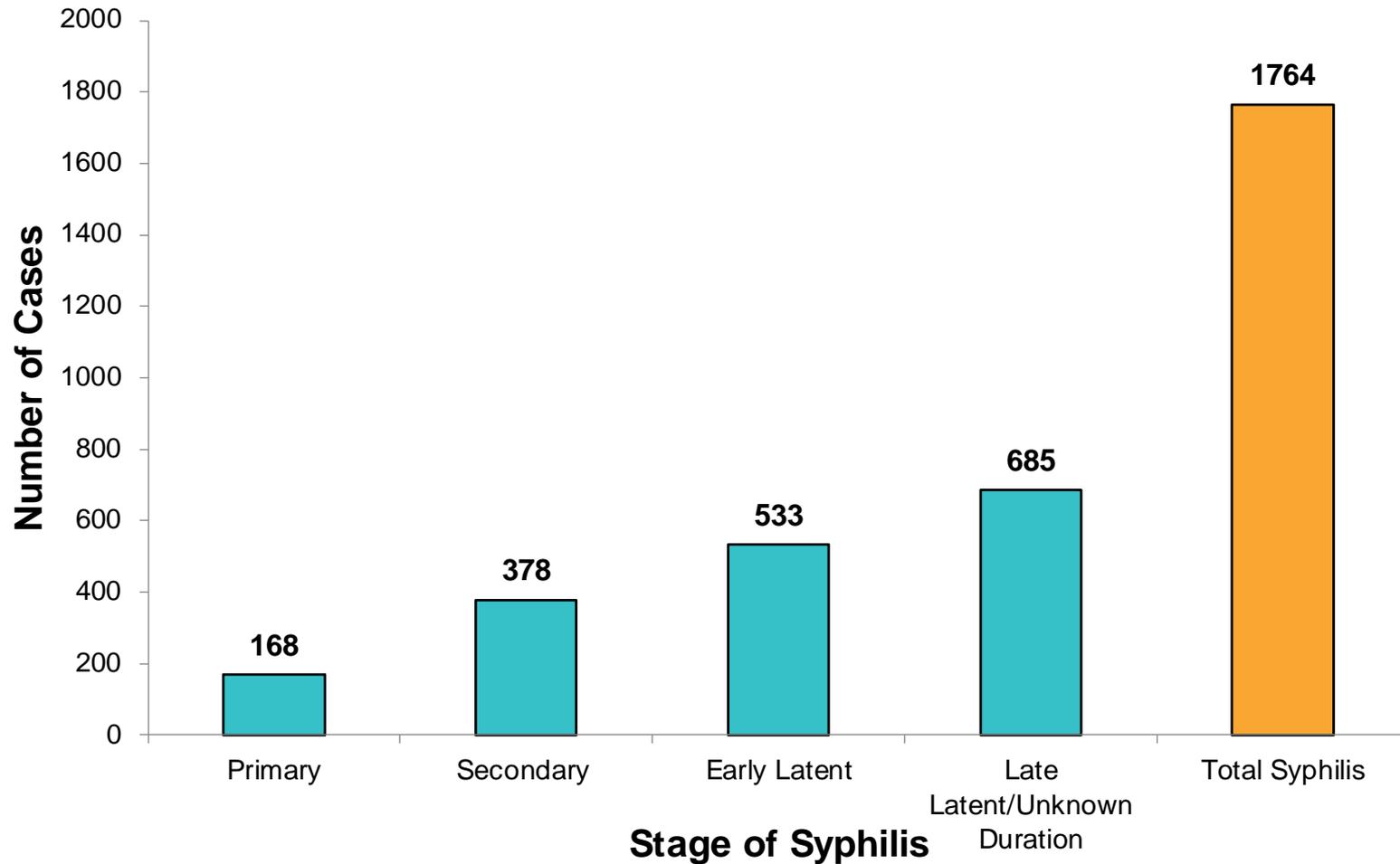
LIVE WELL
SAN DIEGO

Syphilis Stages and Significance

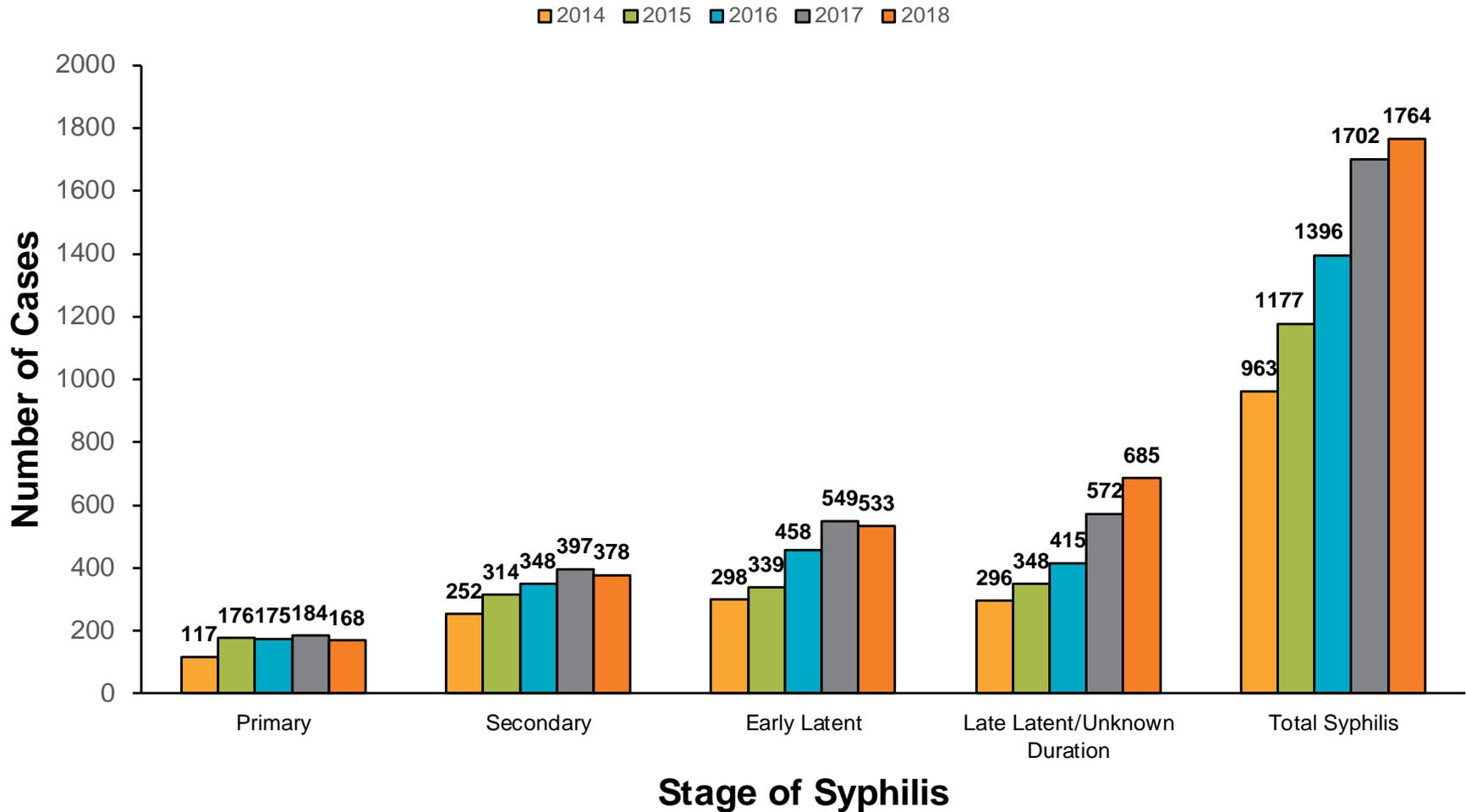
- Primary: painless ulcer(s) at site of initial contact with bacteria (*Treponema pallidum*)
- Secondary: widespread infection with variable presentation; typical findings include, but are not limited to, rash (may involve palms and soles), condylomata lata (wart-like lesions), mucous patches, and/or patchy alopecia.
- Early latent: no signs or symptoms of active infection; infection can be proven to have occurred <1 year ago.
- Late latent: no signs or symptoms of active infection; infection occurred ≥ 1 year ago, or duration is unknown.
- Sexual transmission between adults is only possible during early syphilis (i.e., primary, secondary, & early latent stages).
- Transmission from mother to child can occur during any stage of infection.



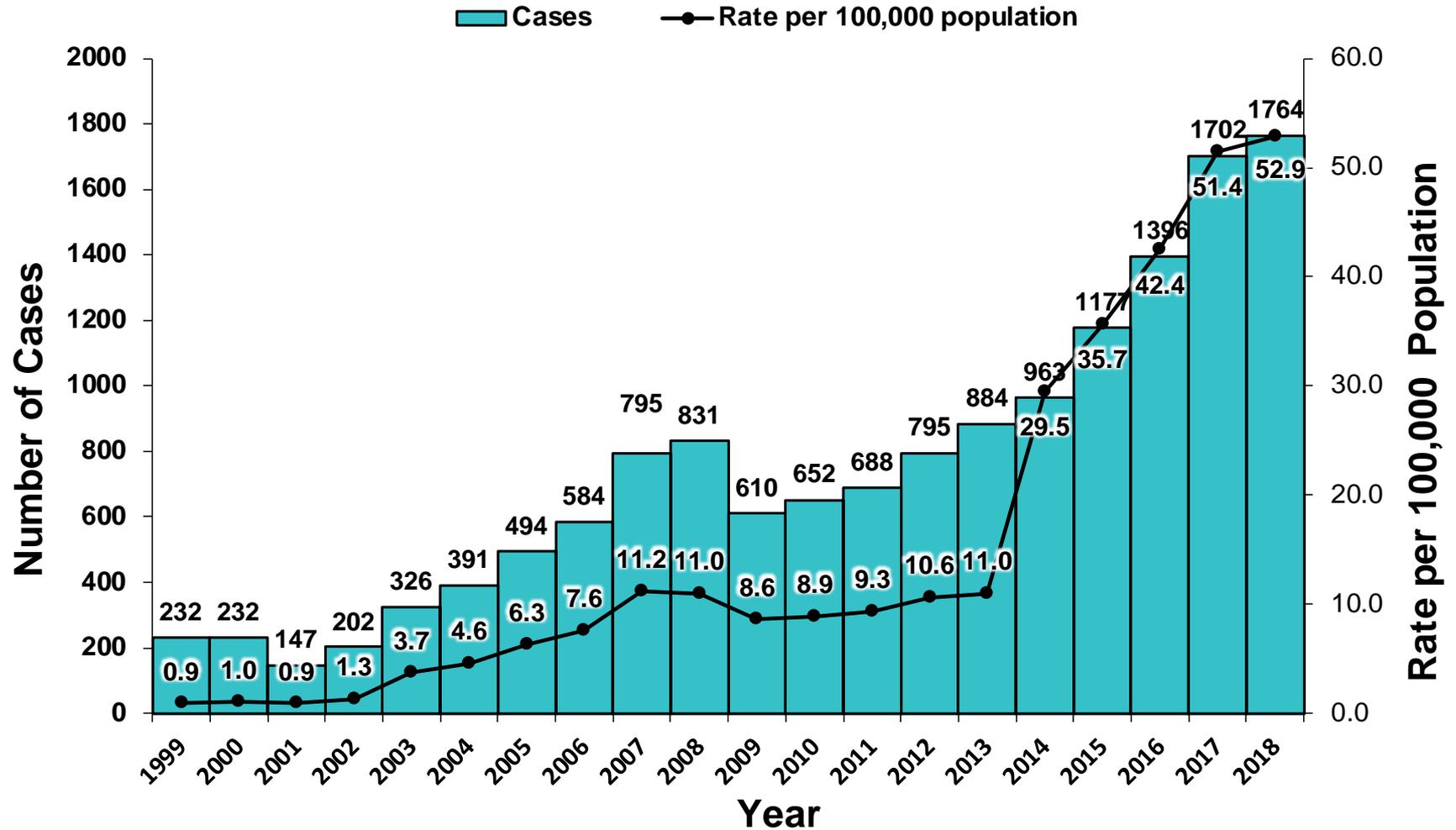
Case Count by Stage of Syphilis San Diego County, 2018



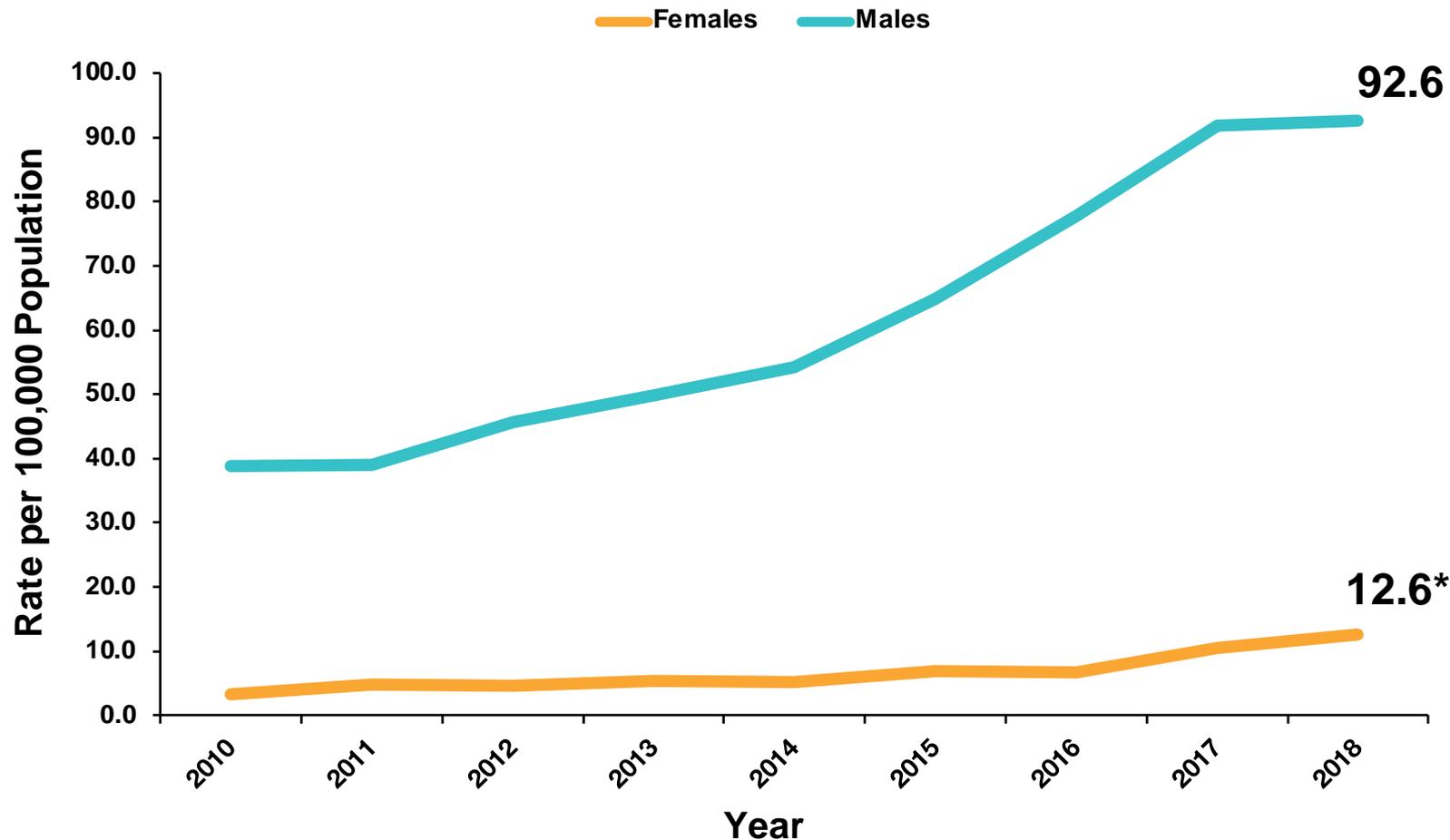
Case Count by Stage of Syphilis San Diego County, 2014 - 2018



Syphilis (All Stages) Cases and Rates by Year San Diego County, 1999 - 2018

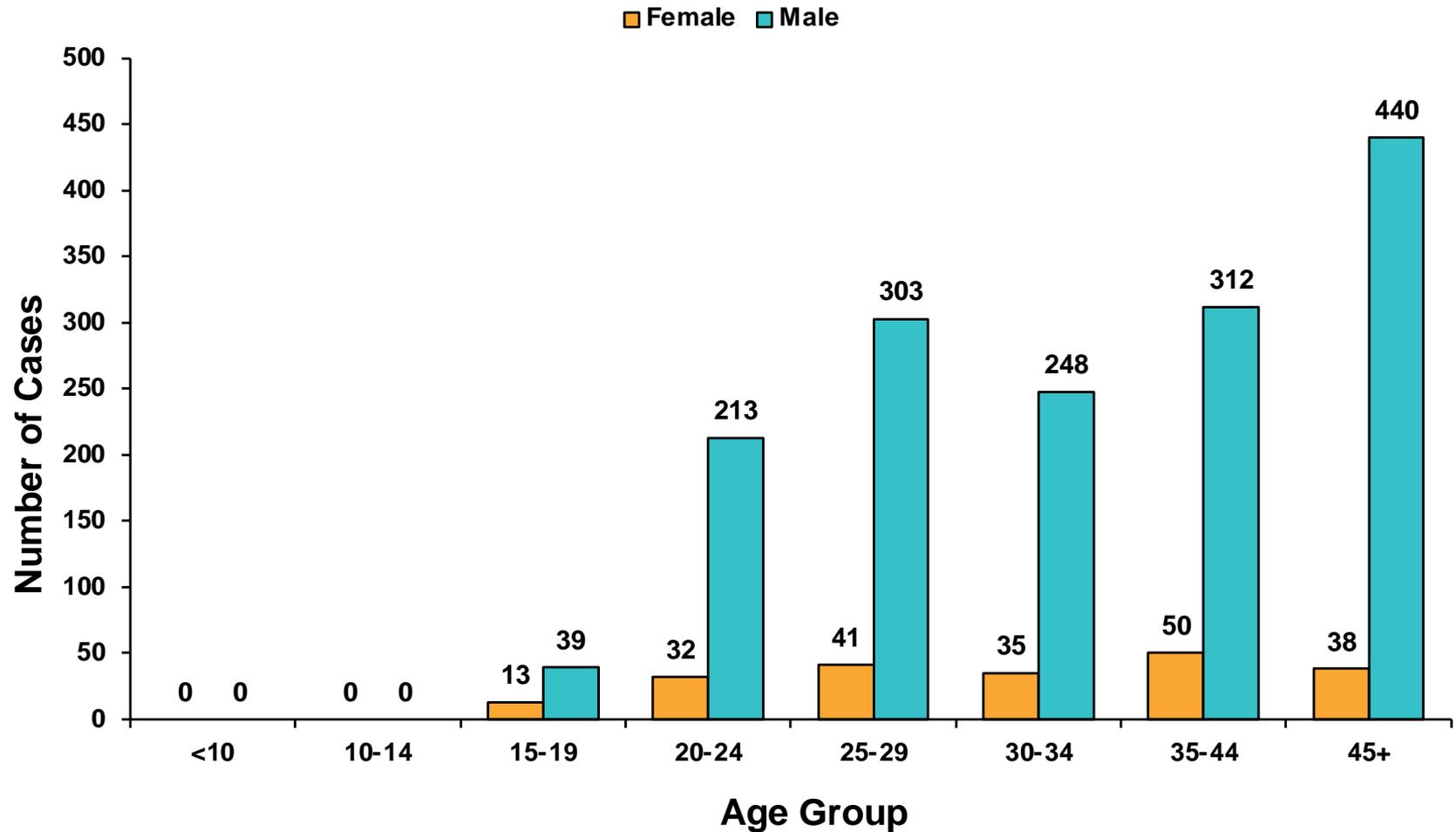


Syphilis (All Stages) Rates by Gender and Year San Diego County, 2010 - 2018

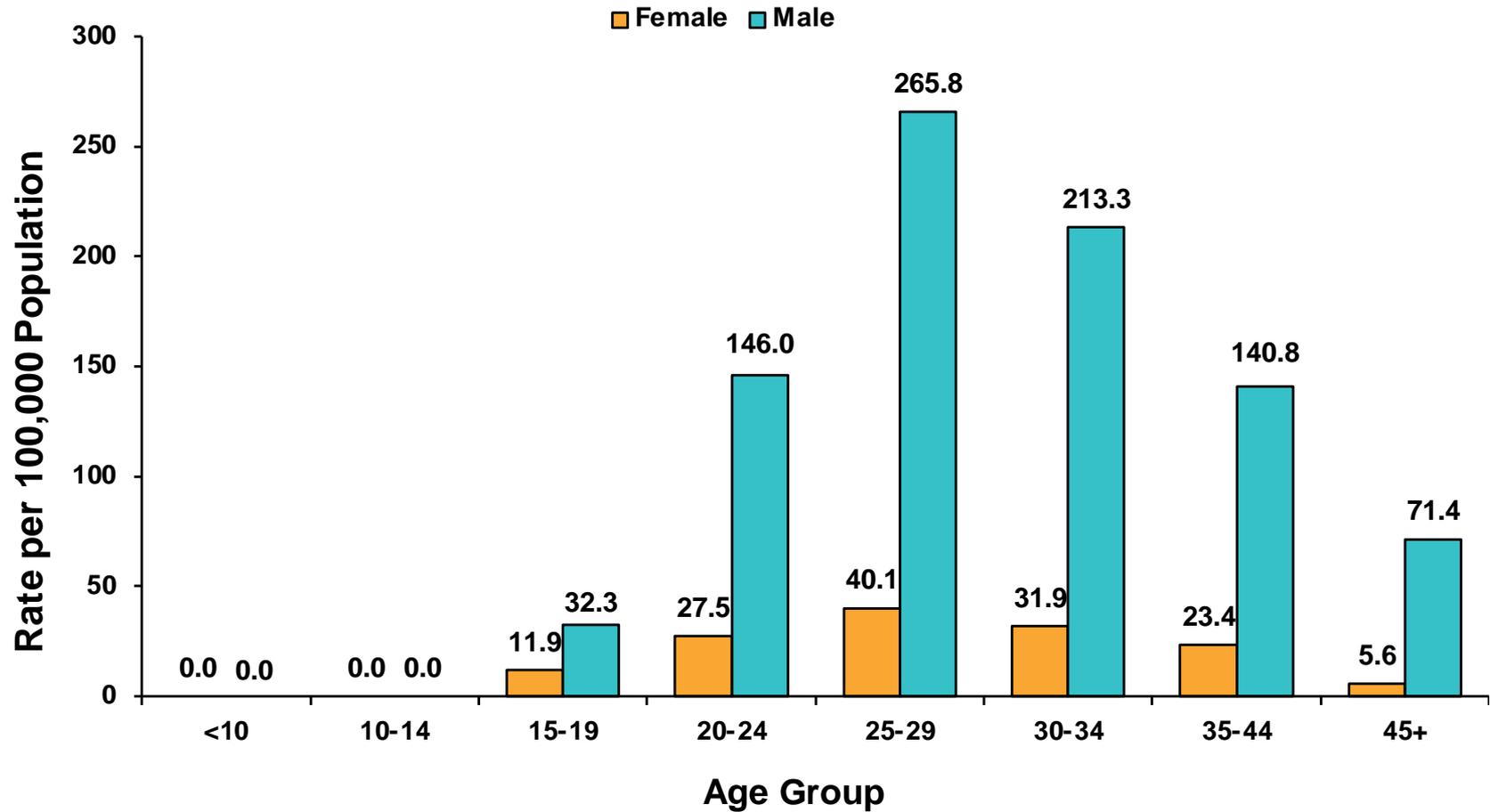


* Between 2017 and 2018 the female syphilis rate increased by 20% and the number of cases increased by 21.5%.

Syphilis (All Stages) Cases by Gender and Age San Diego County, 2018



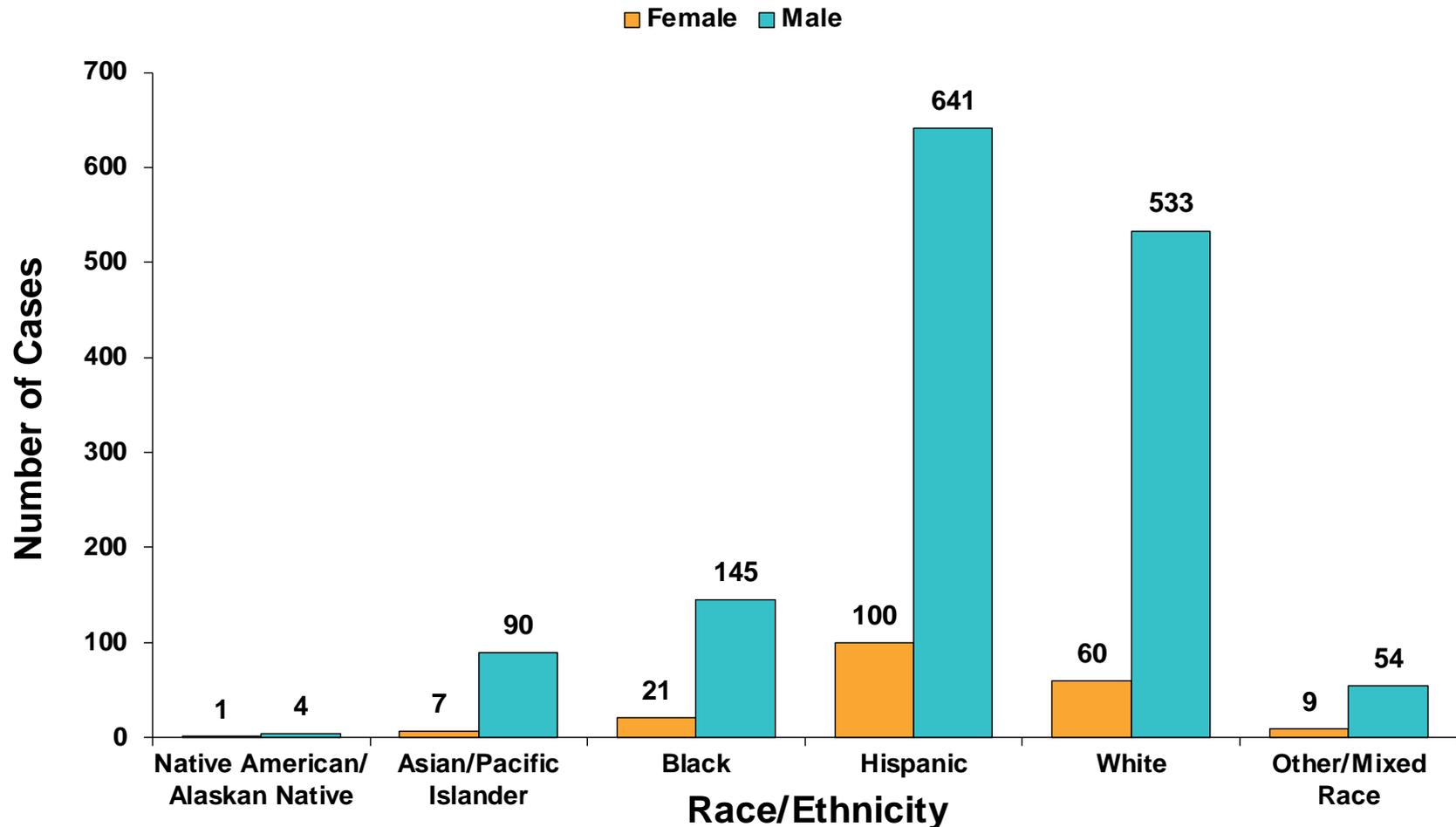
Syphilis (All Stages) Rates by Gender and Age San Diego County, 2018



Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

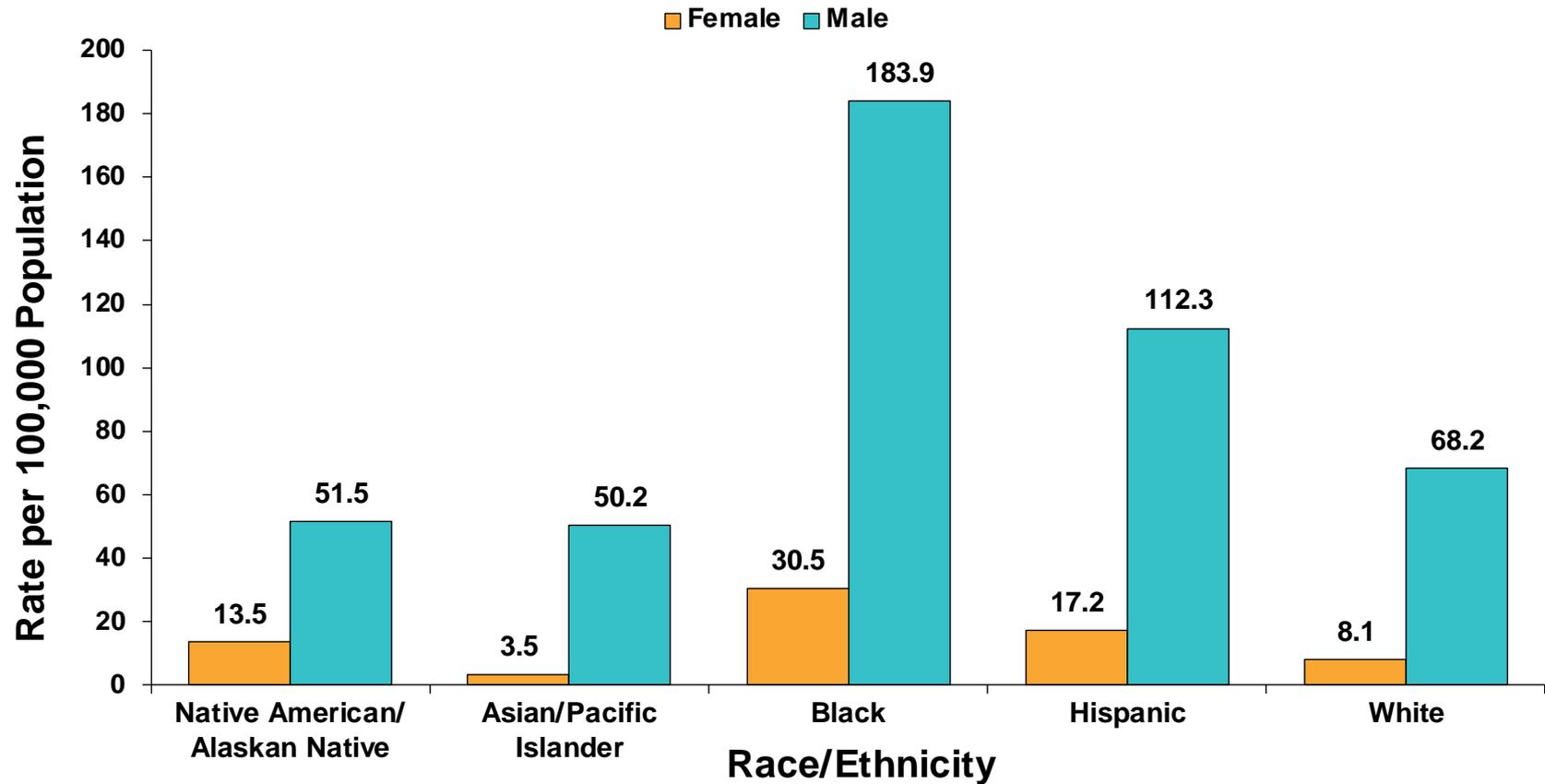


Syphilis (All Stages) Cases by Gender and Race/Ethnicity San Diego County, 2018



Note: Counts exclude 99 cases missing race/ethnicity information

Syphilis (All Stages) Rates by Gender and Race/Ethnicity San Diego County, 2018

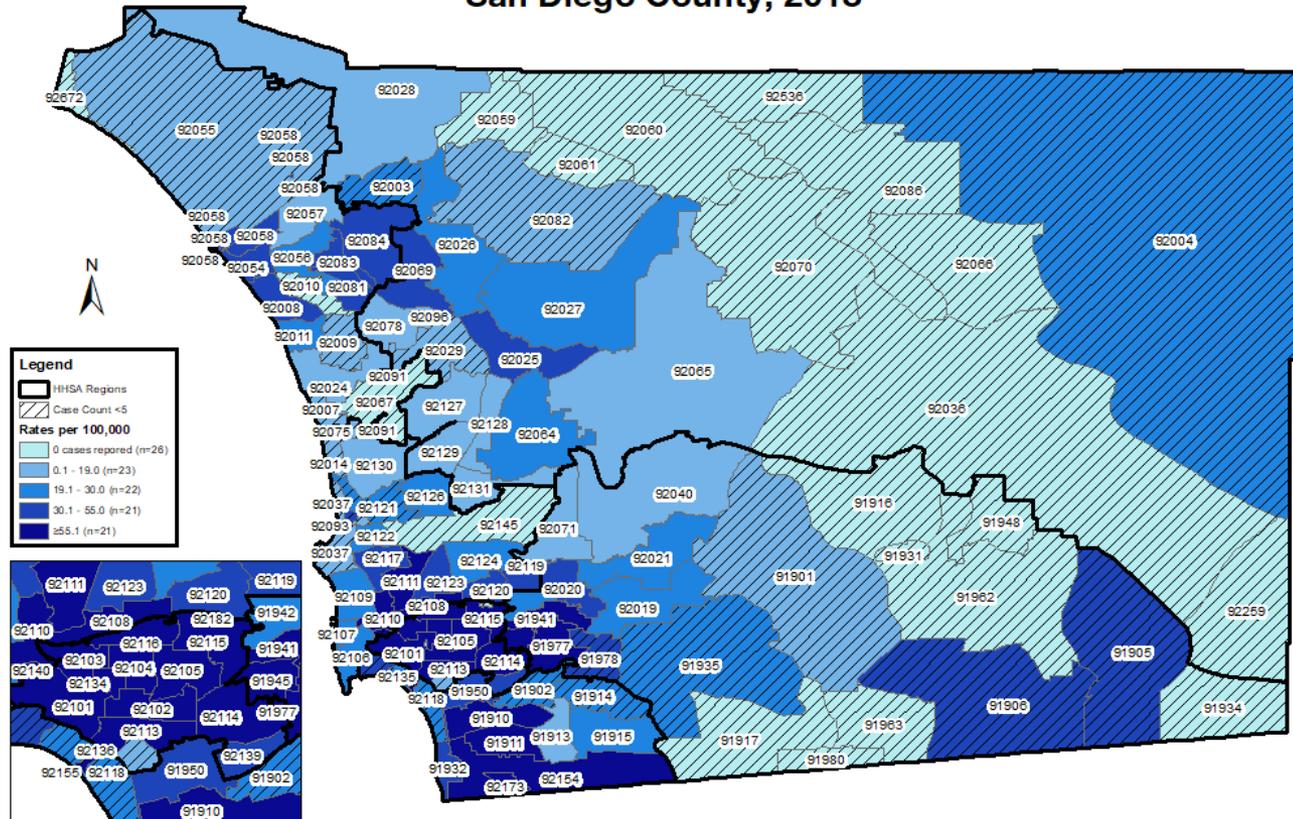


Note: Rates exclude 99 cases missing race/ethnicity information and 63 cases with other/mixed race designations.
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.





Syphilis (All Stages) Rates by Zip Code San Diego County, 2018



Source: County of San Diego, Health and Human Services Agency, HSHB (HIV, STD, Hepatitis Branch), CalREDIE Database
Map Date: August 12, 2019

Primary & Secondary Syphilis



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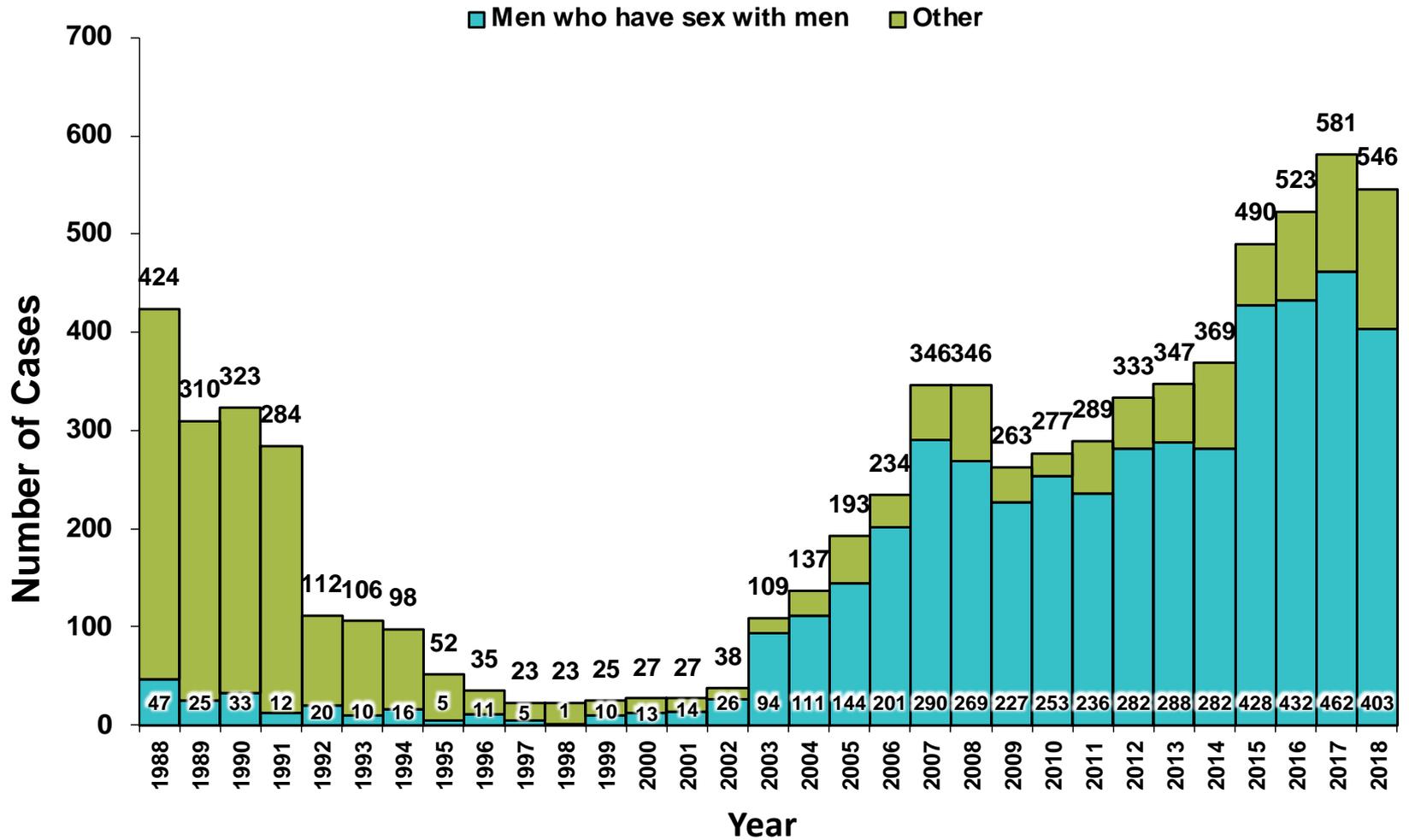
Key Points

Primary & Secondary Syphilis in San Diego County

- Cases of primary and secondary syphilis decreased by 6% from 581 cases in 2017 to 546 cases in 2018.
- The overall rate of primary and secondary syphilis decreased by 6.8% from 17.6 cases per 100,000 in 2017 to 16.4 cases per 100,000 in 2018.
- The majority of primary and secondary syphilis cases (73.8%) are men who have sex with men (MSM).
- Rates are highest among males aged 25 to 34 years.
- African-American/black males have the highest rate of infection; the rate of infection in African-American/black males is 3.3 times that of white males.
- An estimated 39% of MSM primary and secondary syphilis cases are co-infected with HIV.

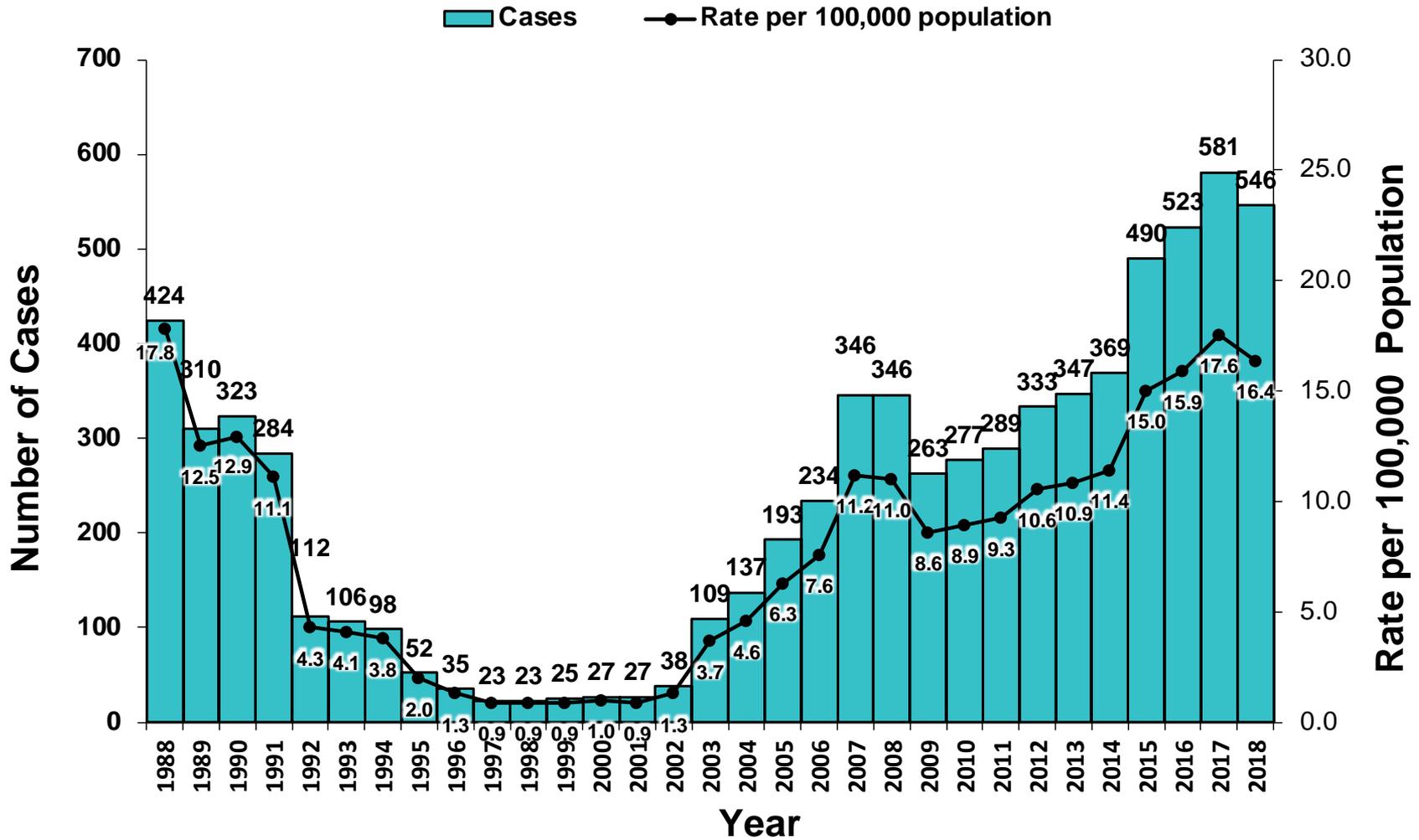


Primary & Secondary Syphilis Cases by Year San Diego County, 1988 - 2018



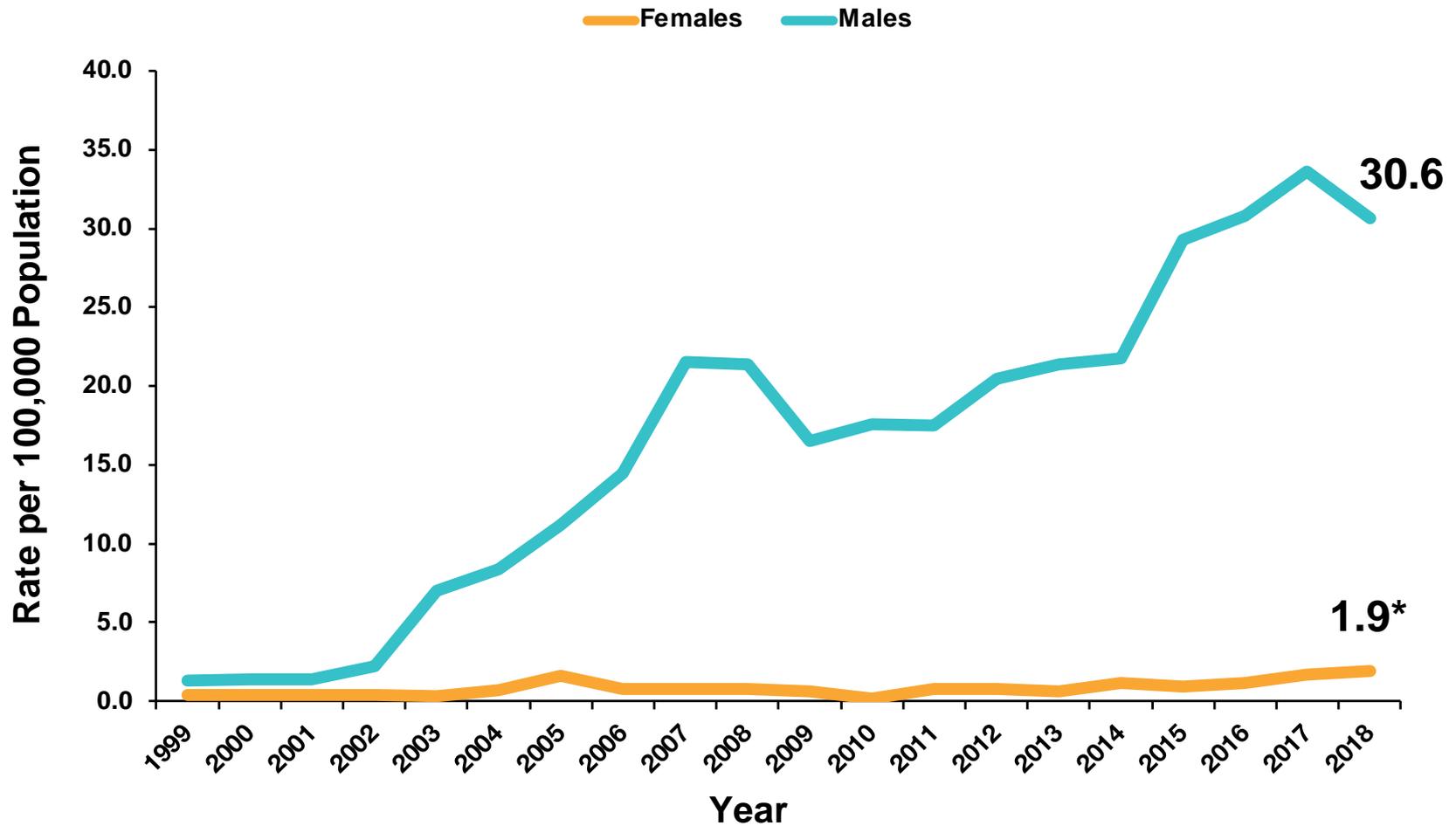
Primary & Secondary Syphilis Cases and Rates by Year

San Diego County, 1988 - 2018



Primary & Secondary Syphilis Rates by Gender and Year

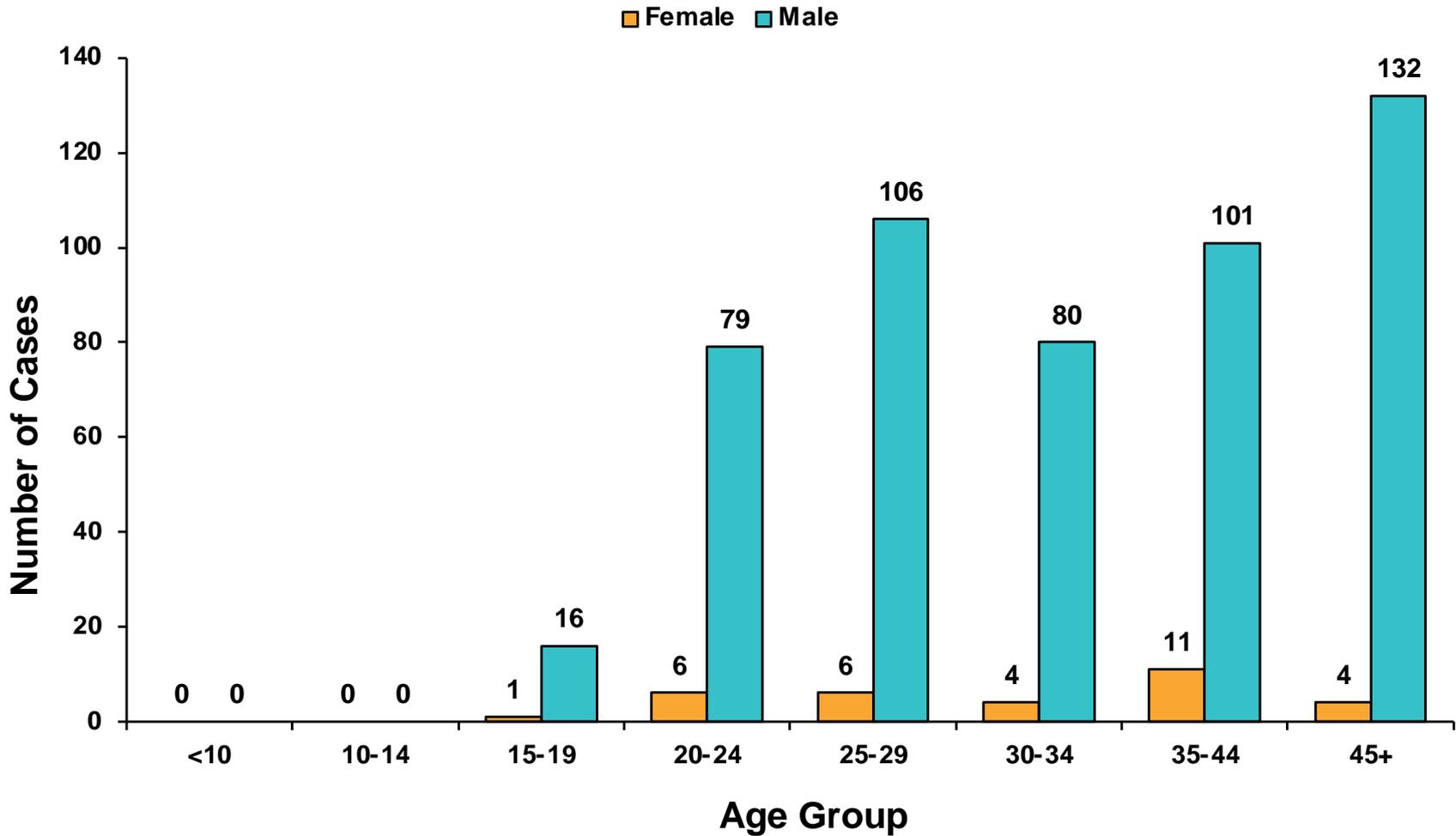
San Diego County, 1999 - 2018



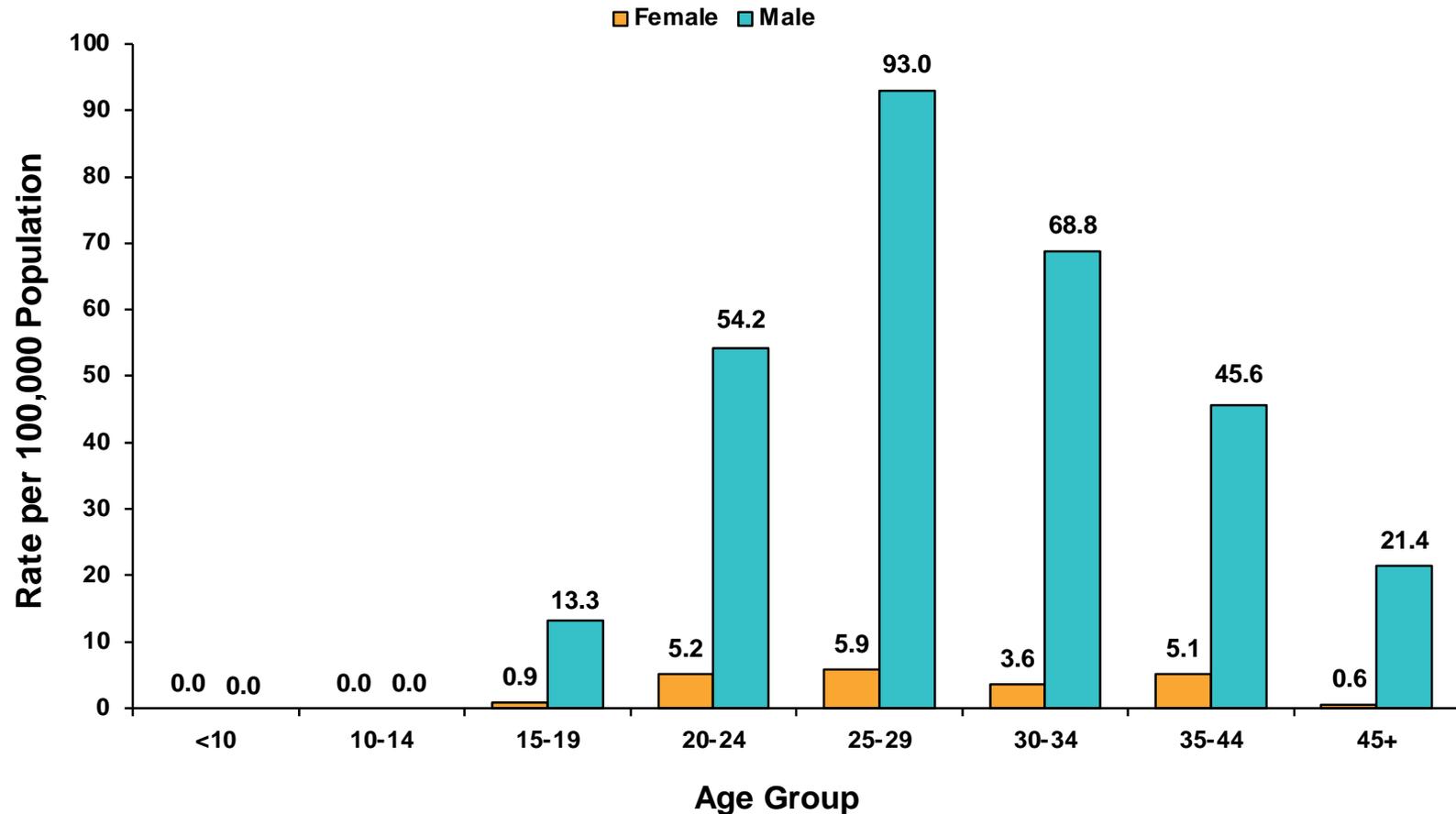
* Between 2017 and 2018 primary and secondary syphilis rates increased by 11.8% in females and decreased by 8.9% in males.



Primary & Secondary Syphilis Cases by Gender and Age San Diego County, 2018

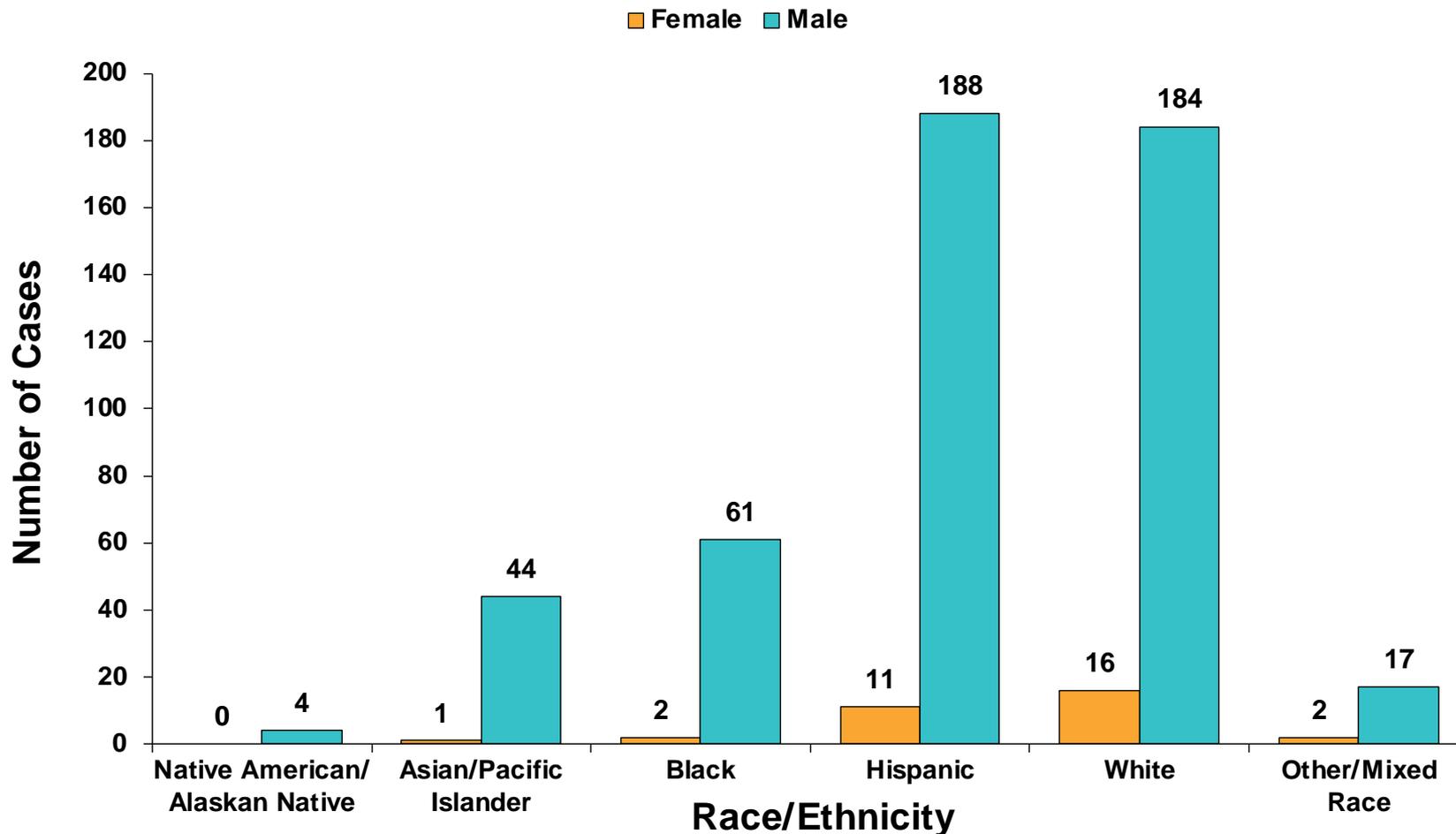


Primary & Secondary Syphilis Rates by Gender and Age San Diego County, 2018



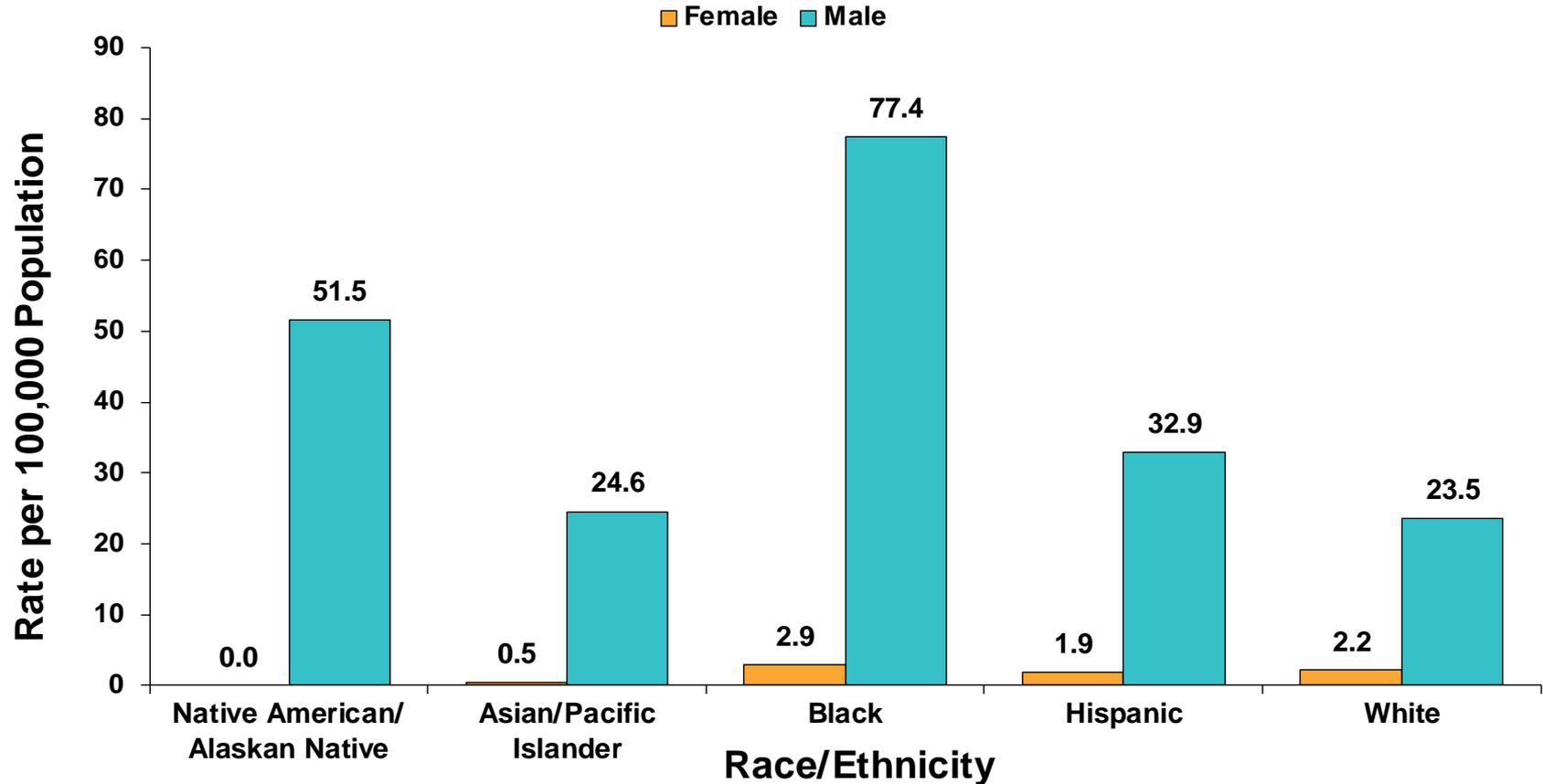
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

Primary & Secondary Syphilis Cases by Gender and Race/Ethnicity San Diego County, 2018



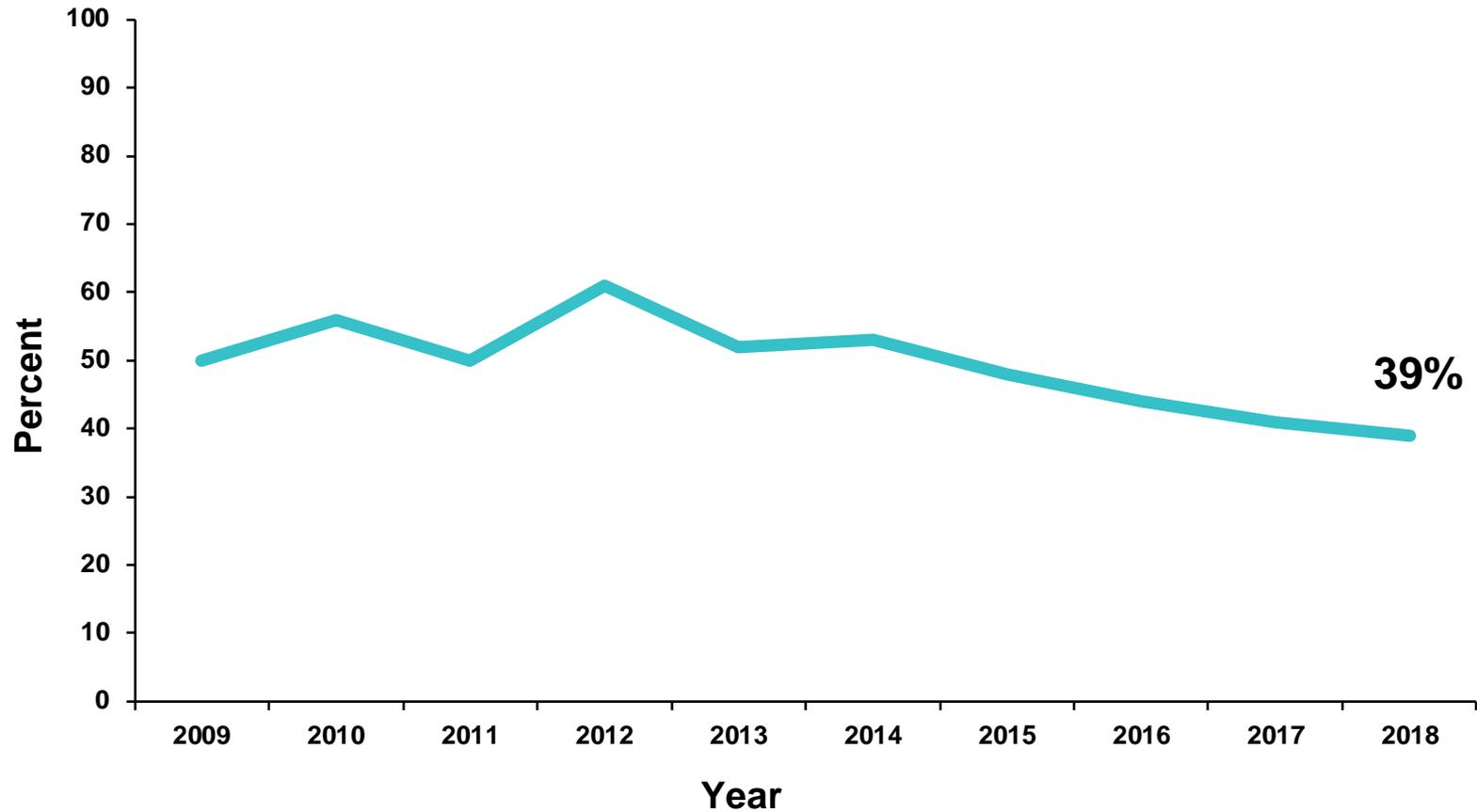
Note: Counts exclude 16 cases missing race/ethnicity information

Primary & Secondary Syphilis Rates by Gender and Race/Ethnicity San Diego County, 2018



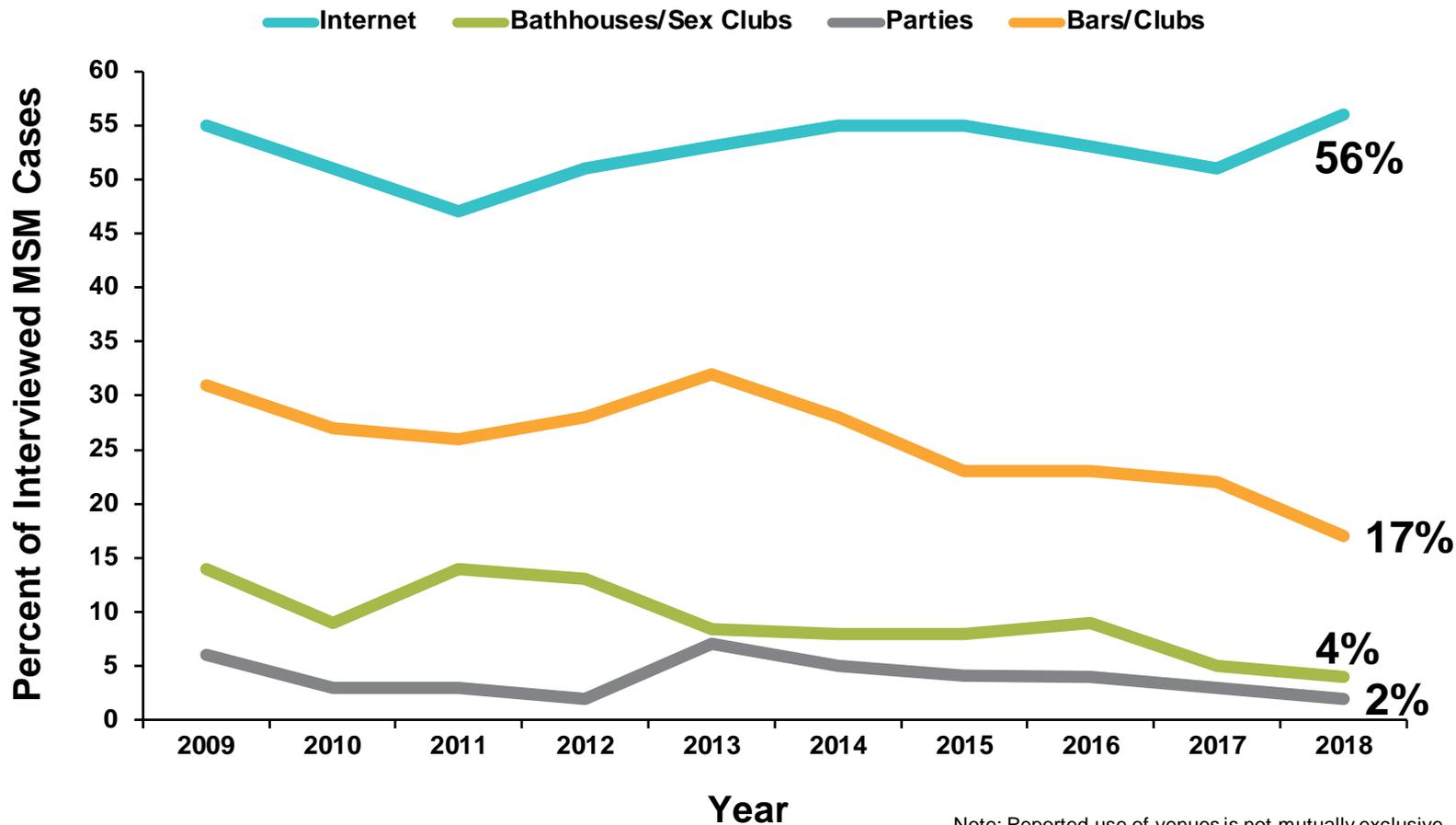
Note: Rates exclude 16 cases missing race/ethnicity information and 19 cases with other/mixed race designations .
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

Percent of MSM* Primary & Secondary Syphilis Cases Co-Infected with HIV by Year San Diego County, 2009 - 2018



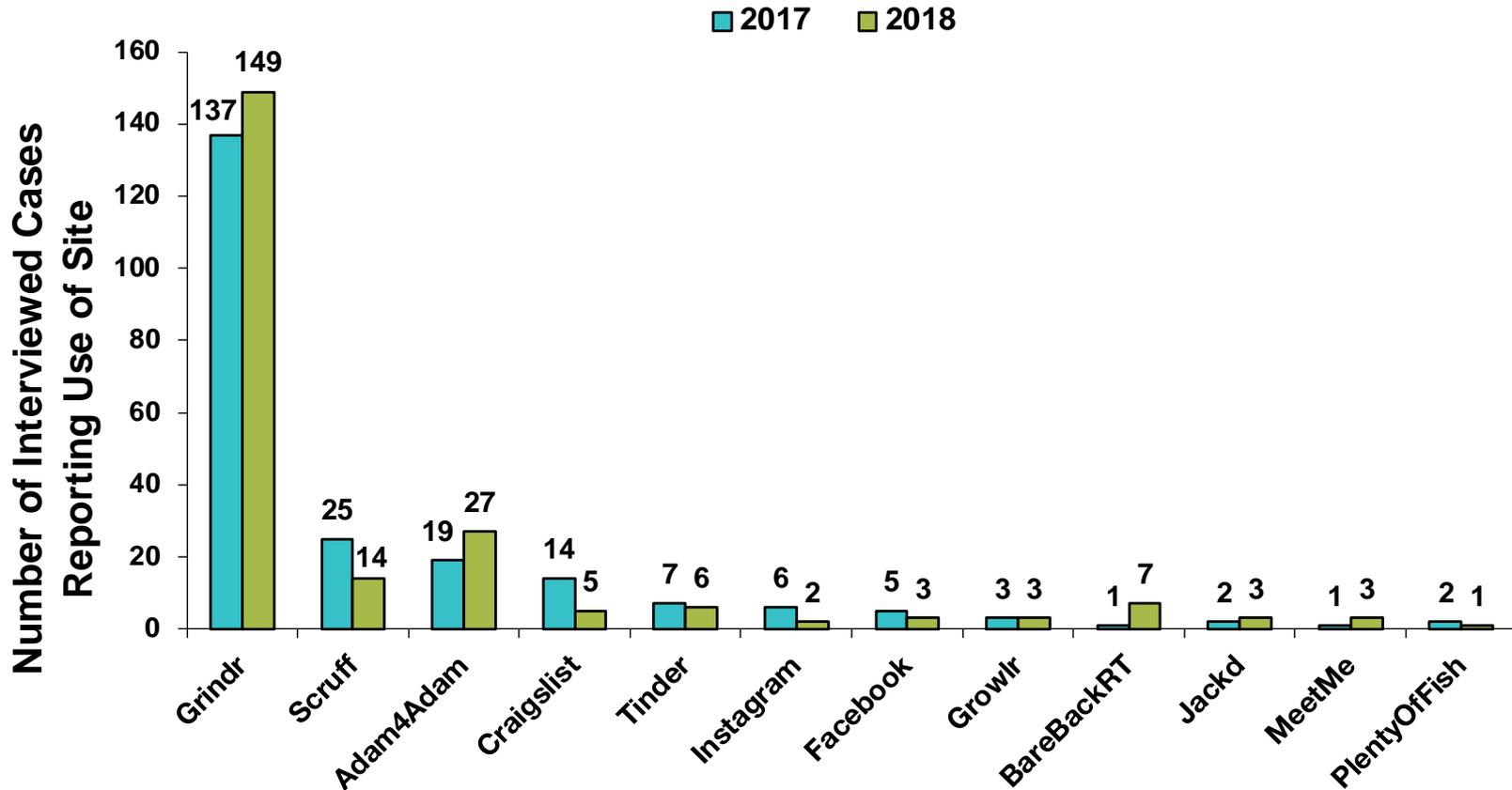
*MSM: Men Who Have Sex With Men

Meeting Venues Among Interviewed MSM* Primary & Secondary Syphilis Cases San Diego County, 2009 - 2018



Note: Reported use of venues is not mutually exclusive.
*MSM: Men Who Have Sex With Men

Reported Use of Internet-Based Services* Among MSM** Primary & Secondary Syphilis Cases San Diego County, 2017 – 2018

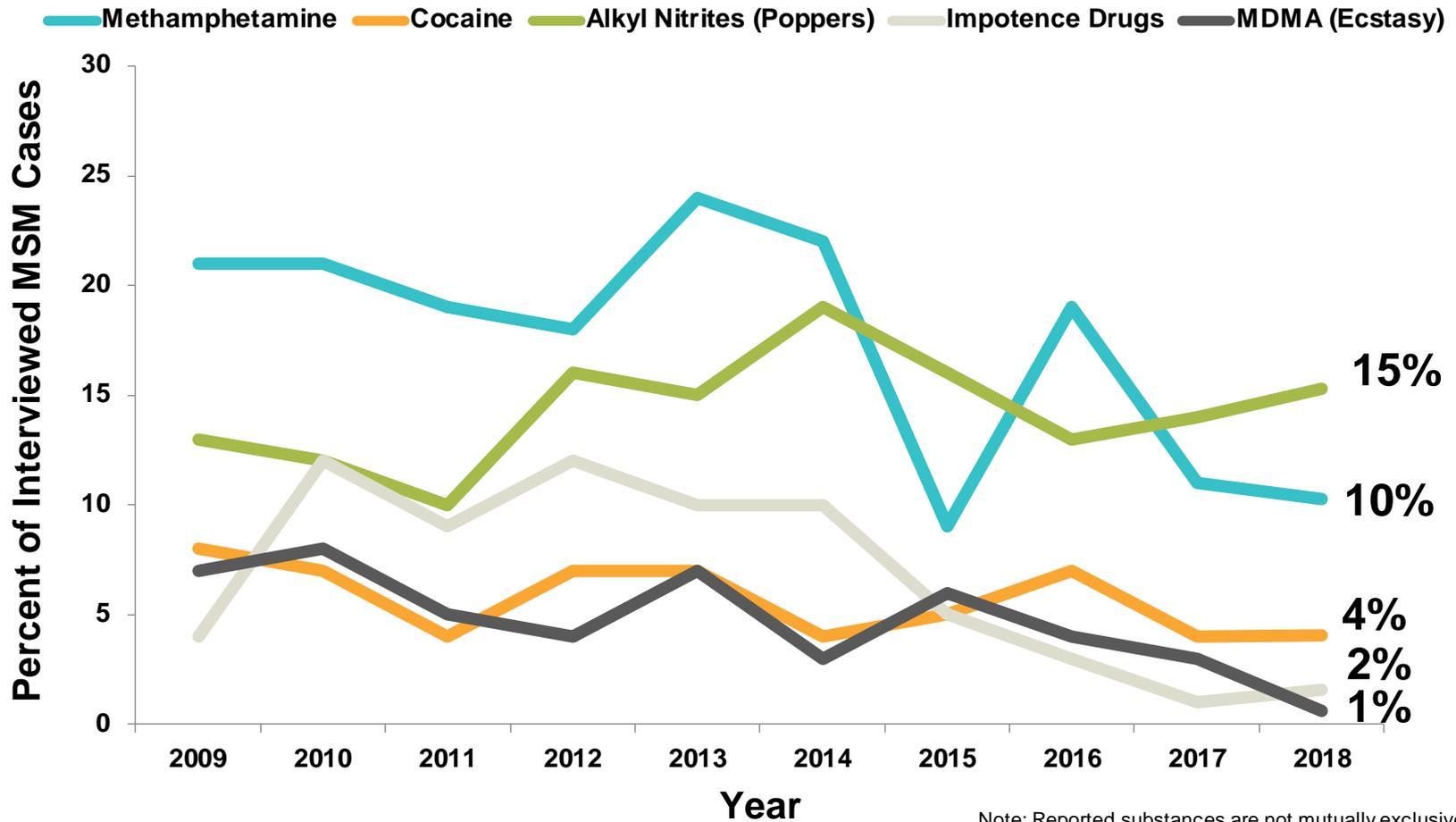


Note: Reported use of sites is not mutually exclusive.

* Included websites have been used by at least 2 MSM cases per year in 2017 or 2018.

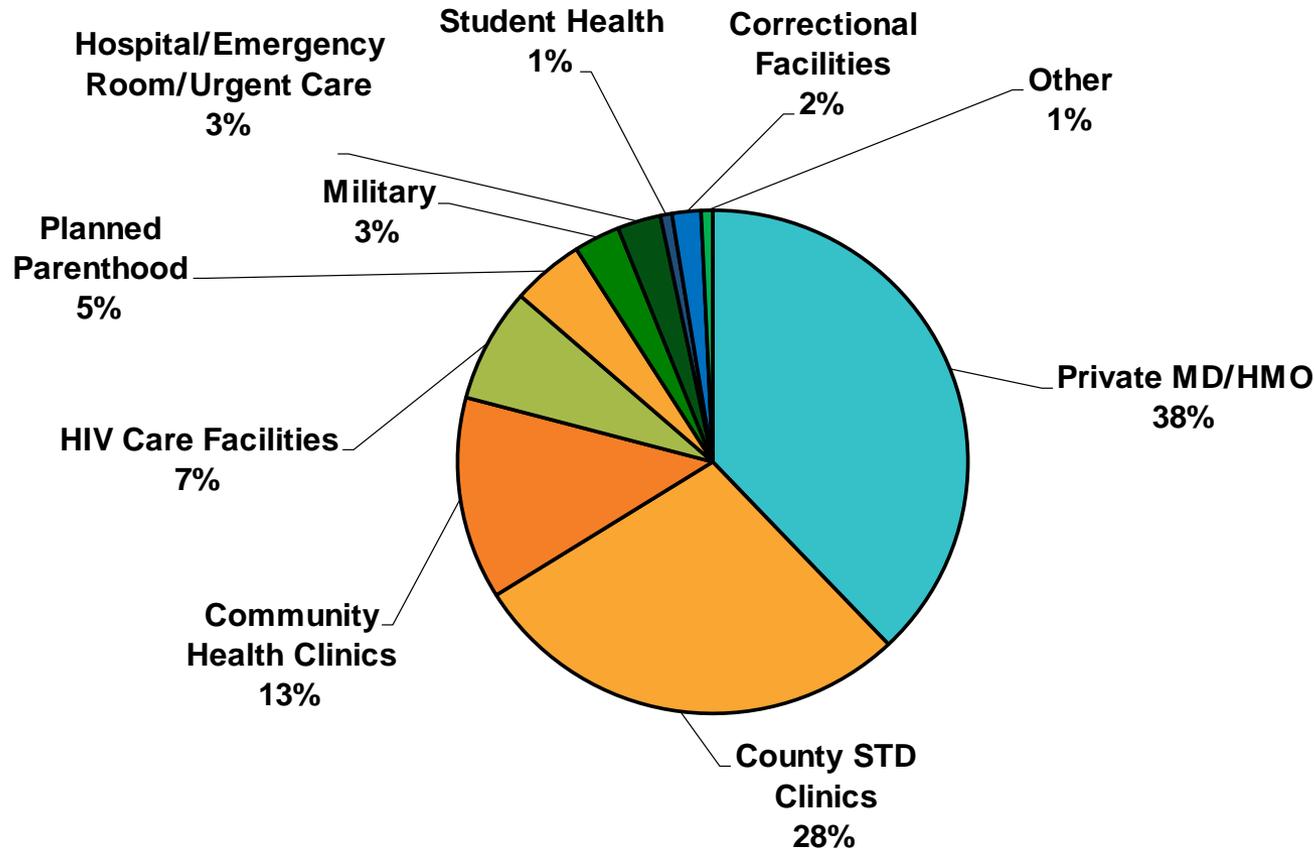
**MSM: Men Who Have Sex With Men

Reported Substance Use of Interviewed MSM* Primary & Secondary Syphilis Cases by Year San Diego County, 2009 - 2018



Note: Reported substances are not mutually exclusive.
*MSM: Men Who Have Sex With Men

Primary & Secondary Syphilis Cases by Reporting Facility Type San Diego County, 2018



Early (Primary, Secondary, & Early Latent) Syphilis



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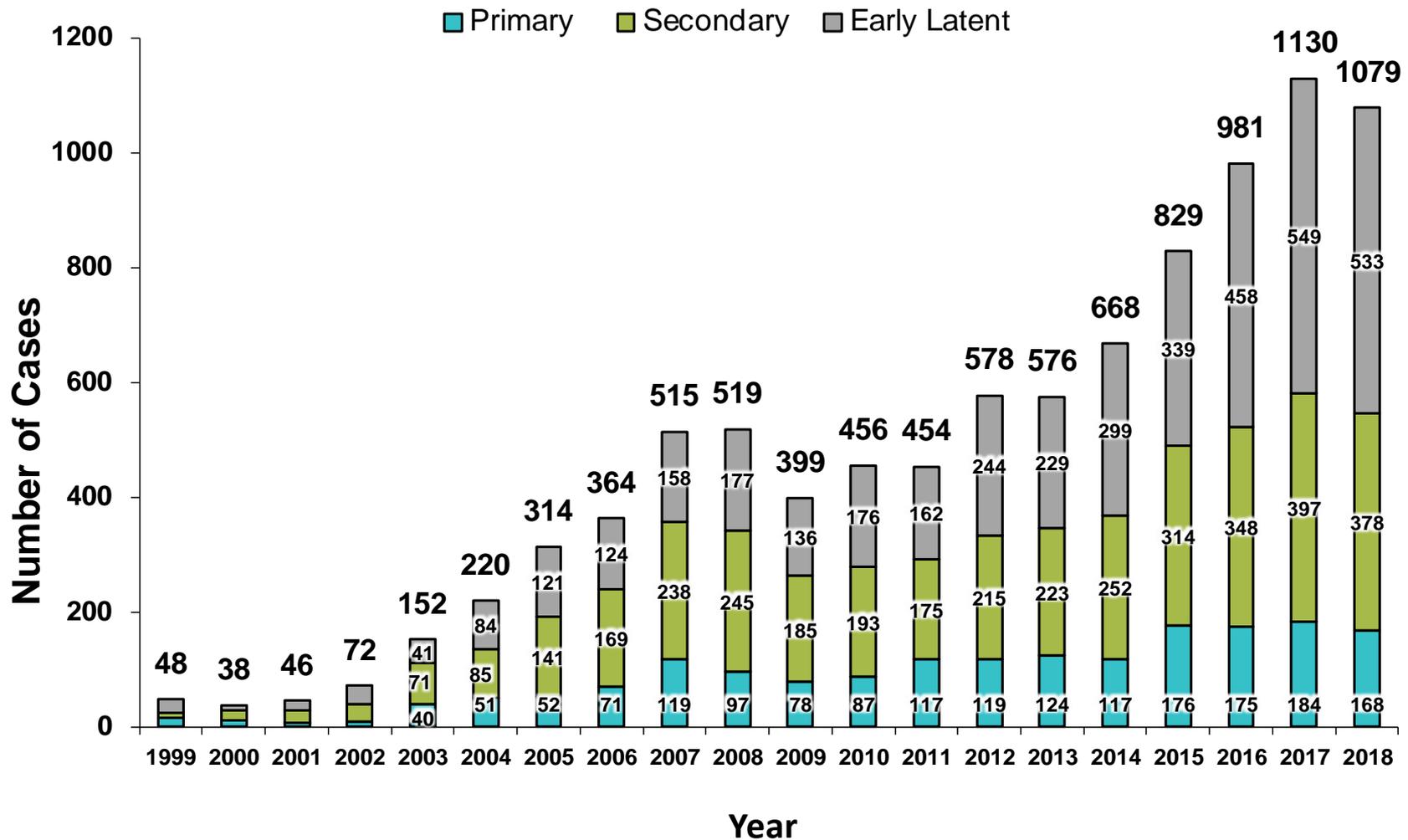
Key Points

Early Syphilis in San Diego County

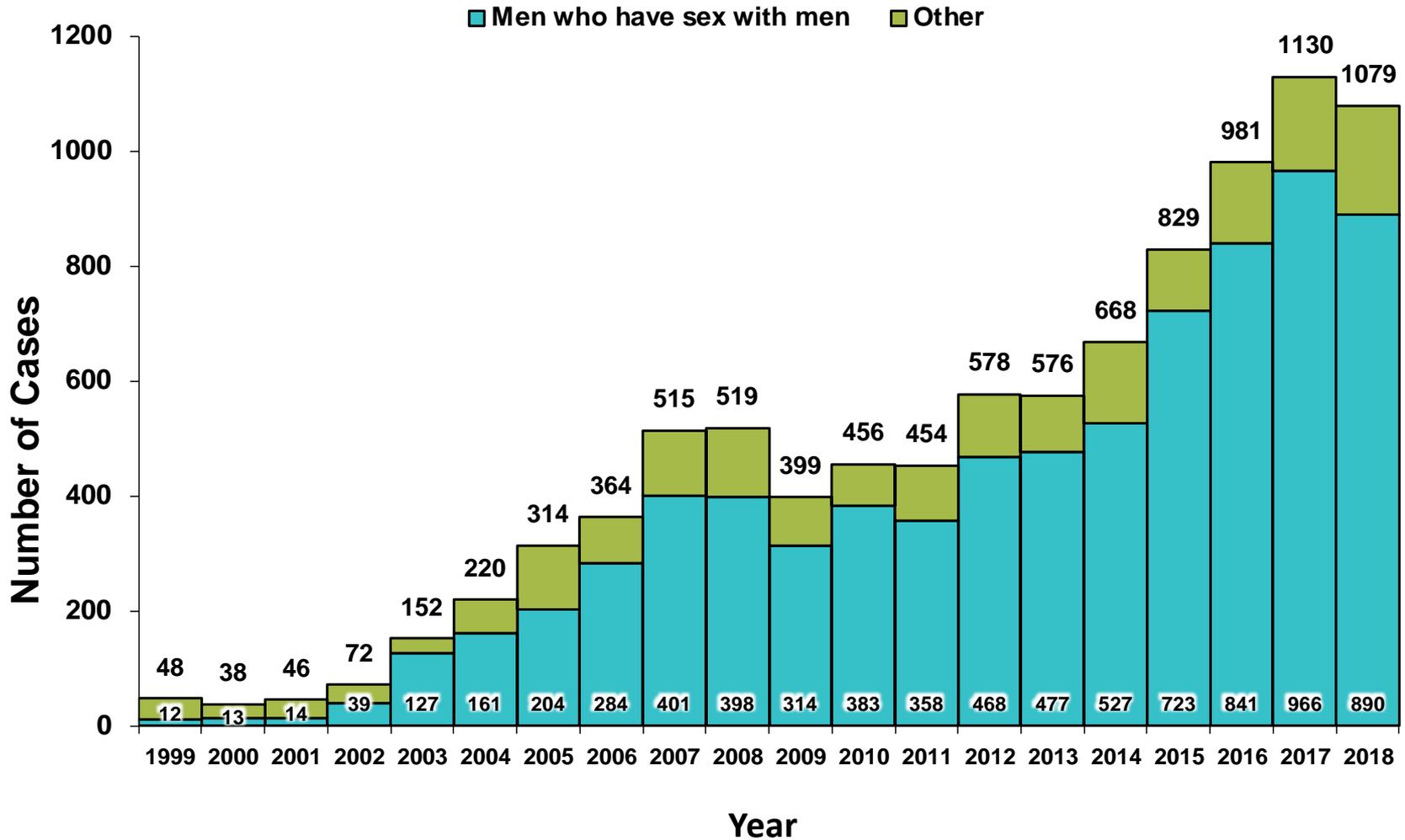
- Cases of early syphilis decreased by 4.5% from 1130 cases in 2017 to 1079 cases in 2018.
- The overall rate of early syphilis decreased by 5.3% from 34.1 cases per 100,000 in 2017 to 32.3 cases per 100,000 in 2018.
- The majority of early syphilis cases (82.5%) are men who have sex with men (MSM).
- Rates are highest among males aged 25 to 34 years.
- African-American/black males have the highest rate of infection; the rate of infection in African-American/black males is 2.5 times that of white males.
- An estimated 54.2% of MSM early syphilis cases are co-infected with HIV.



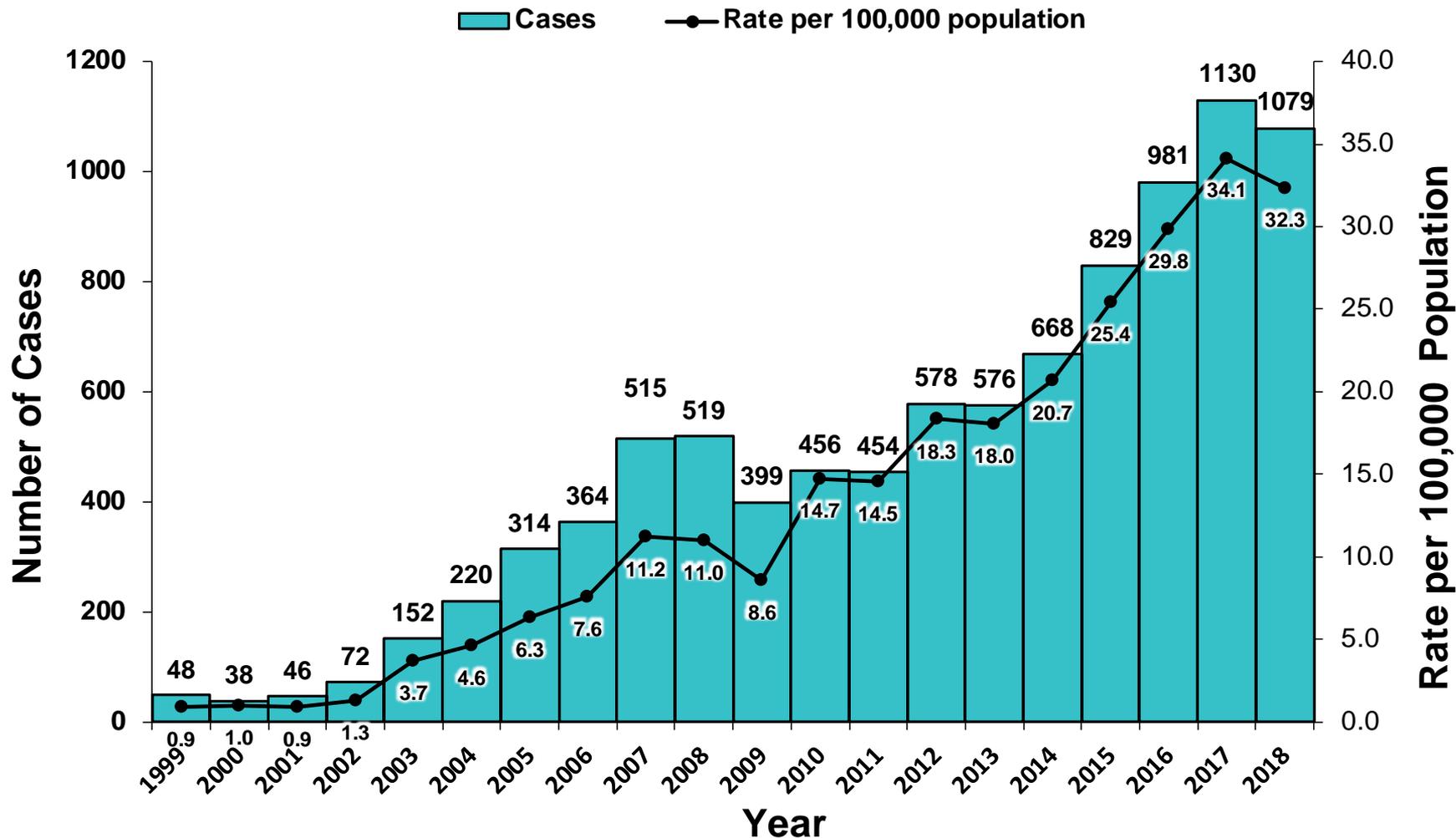
Early Syphilis Cases by Year and Stage San Diego County, 1999 - 2018



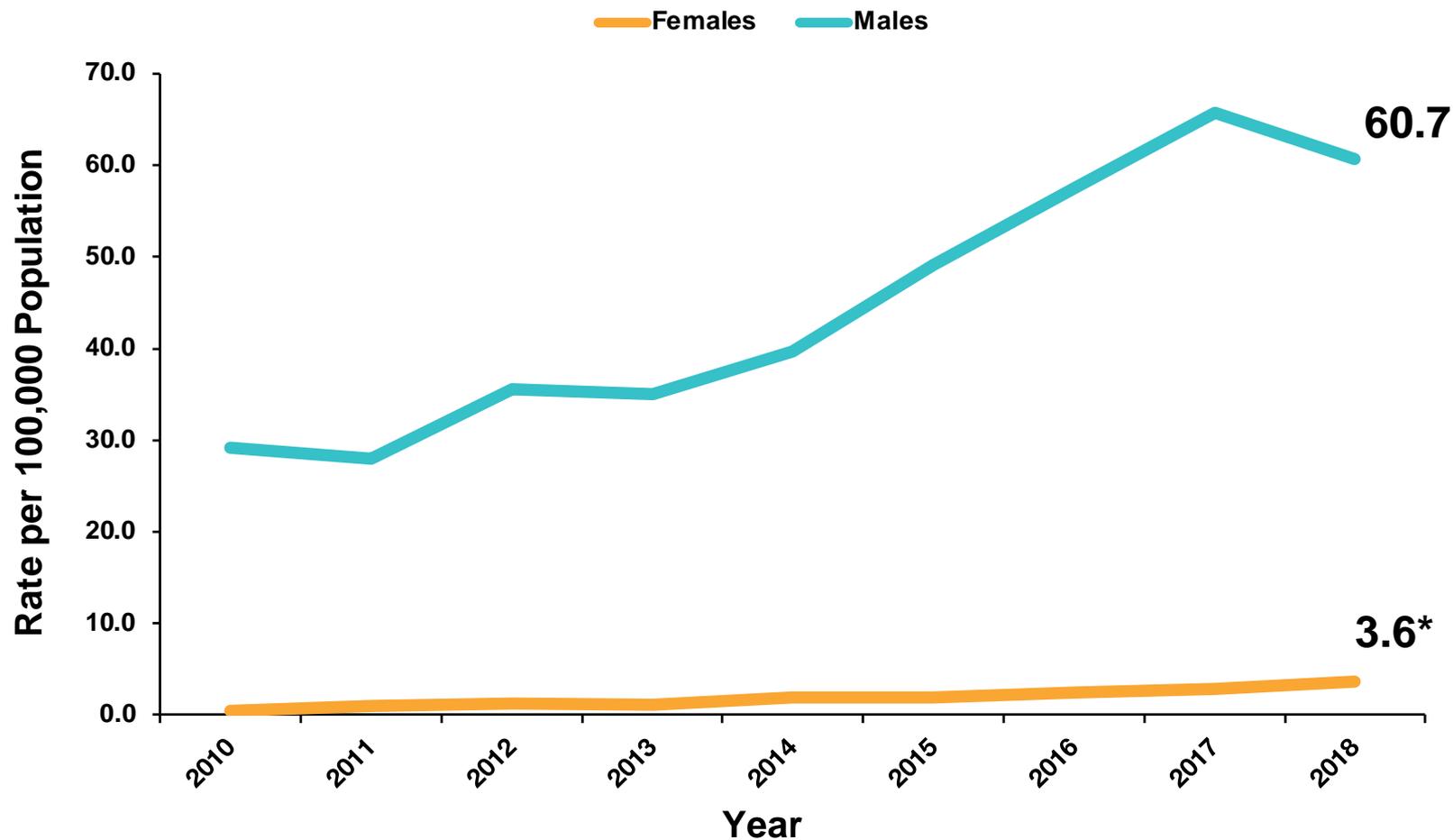
Early Syphilis Cases by Year San Diego County, 1999 - 2018



Early Syphilis Cases and Rates by Year San Diego County, 1999 - 2018

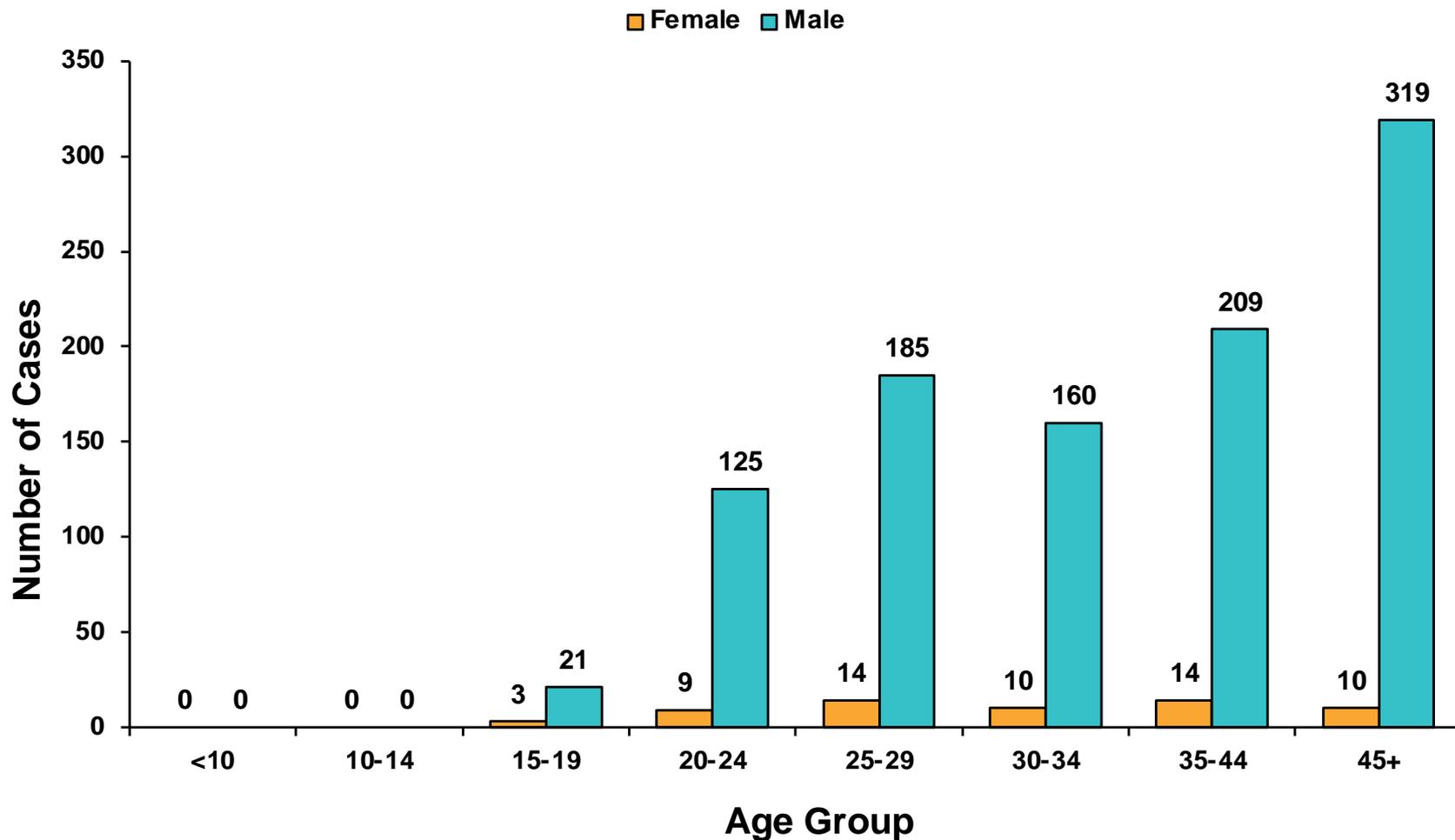


Early Syphilis Rates by Gender and Year San Diego County, 2010 - 2018

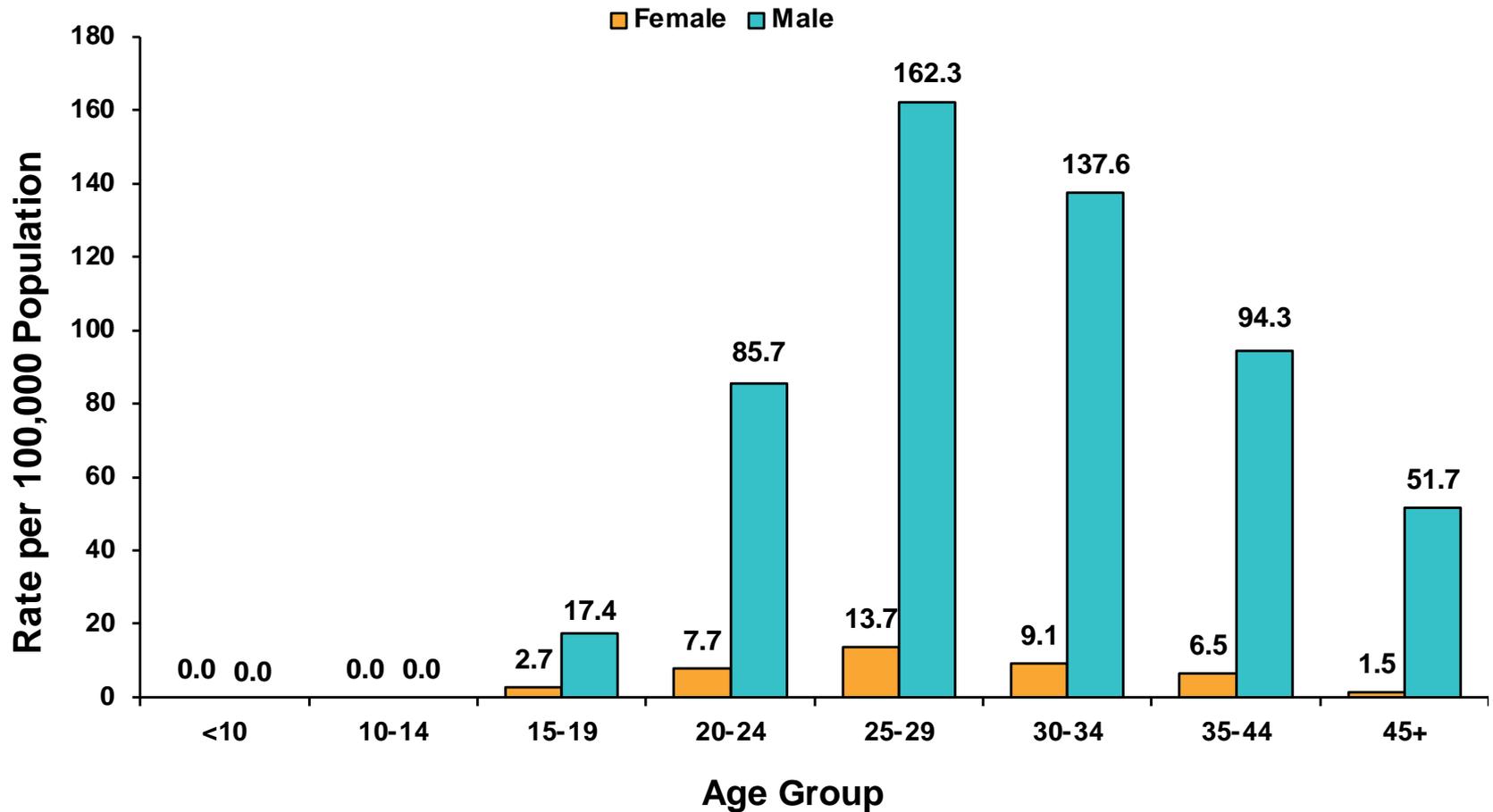


* Between 2017 and 2018 the female early syphilis rate increased by 24% and the number of cases increased by 25%.

Early Syphilis Cases by Gender and Age San Diego County, 2018

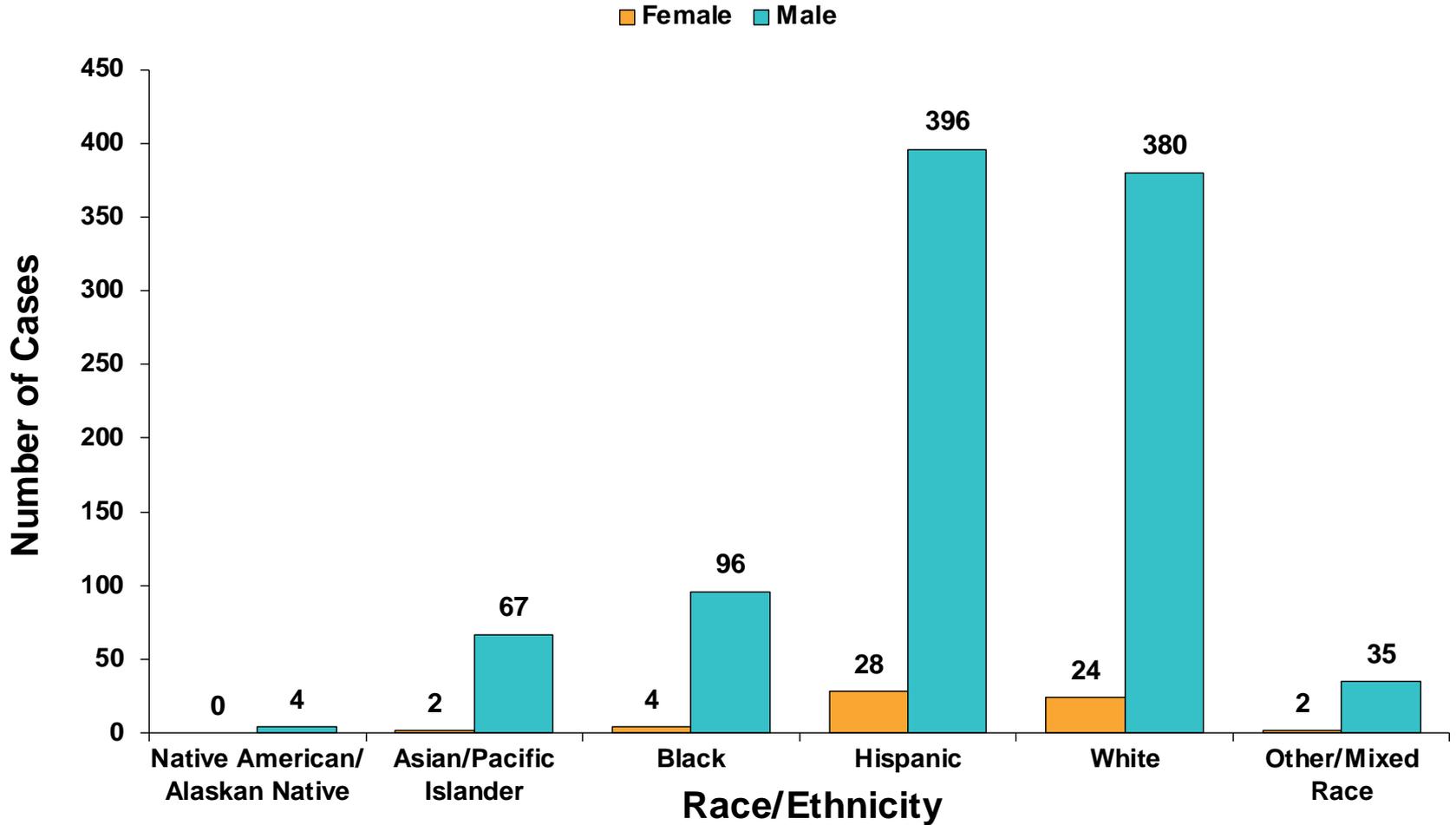


Early Syphilis Rates by Gender and Age San Diego County, 2018



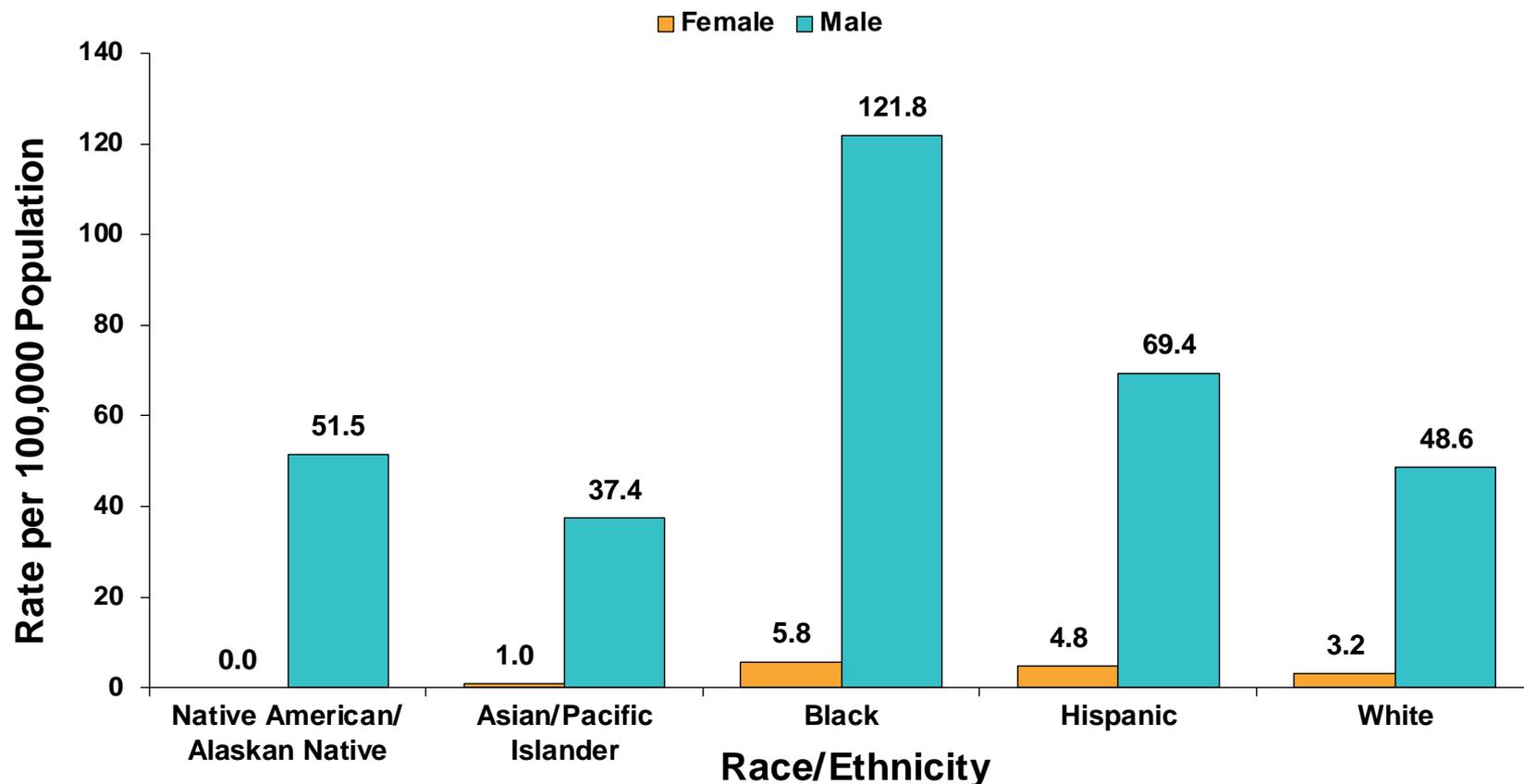
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

Early Syphilis Cases by Gender and Race/Ethnicity San Diego County, 2018



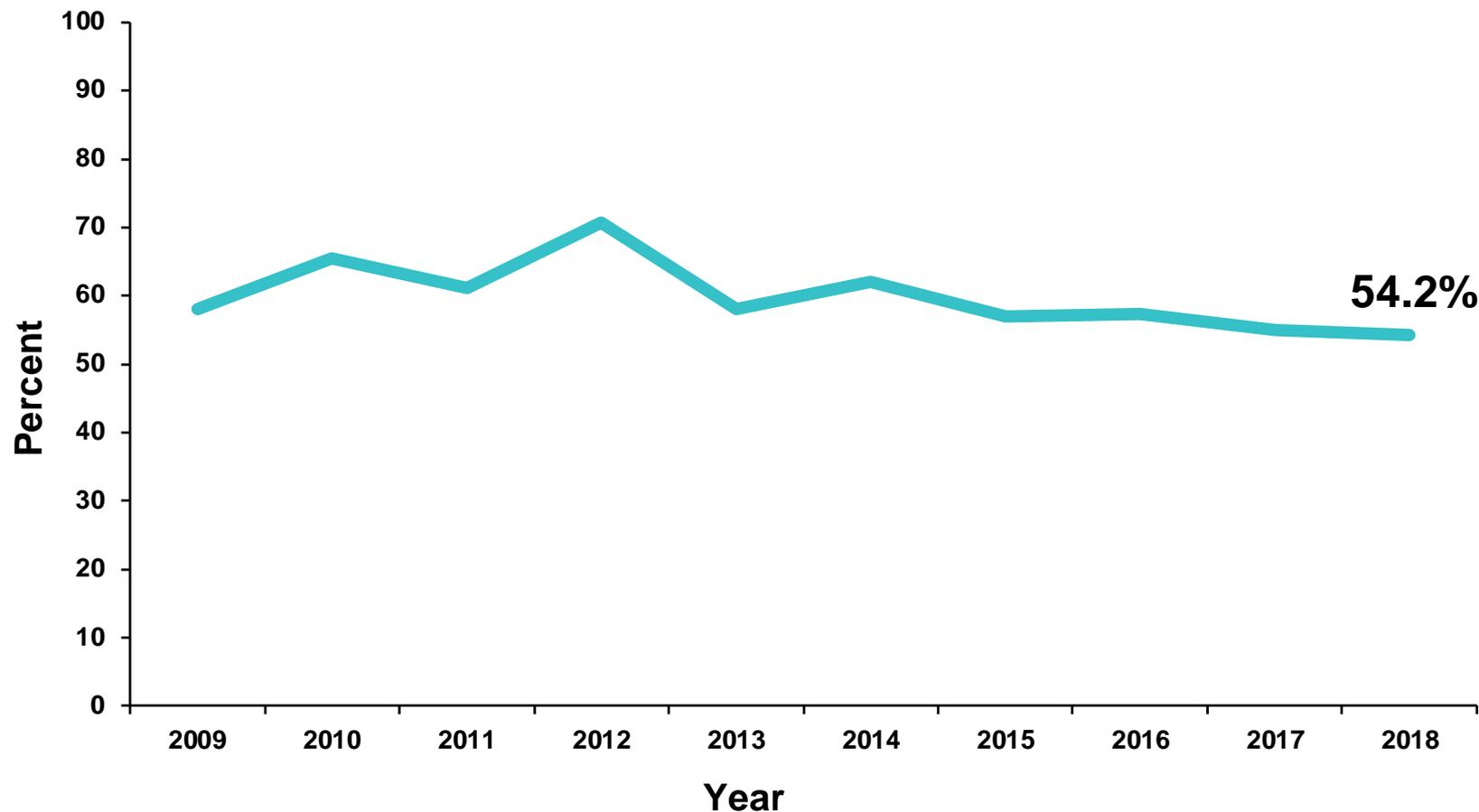
Note: Counts exclude 41 cases missing race/ethnicity information

Early Syphilis Rates by Gender and Race/Ethnicity San Diego County, 2018



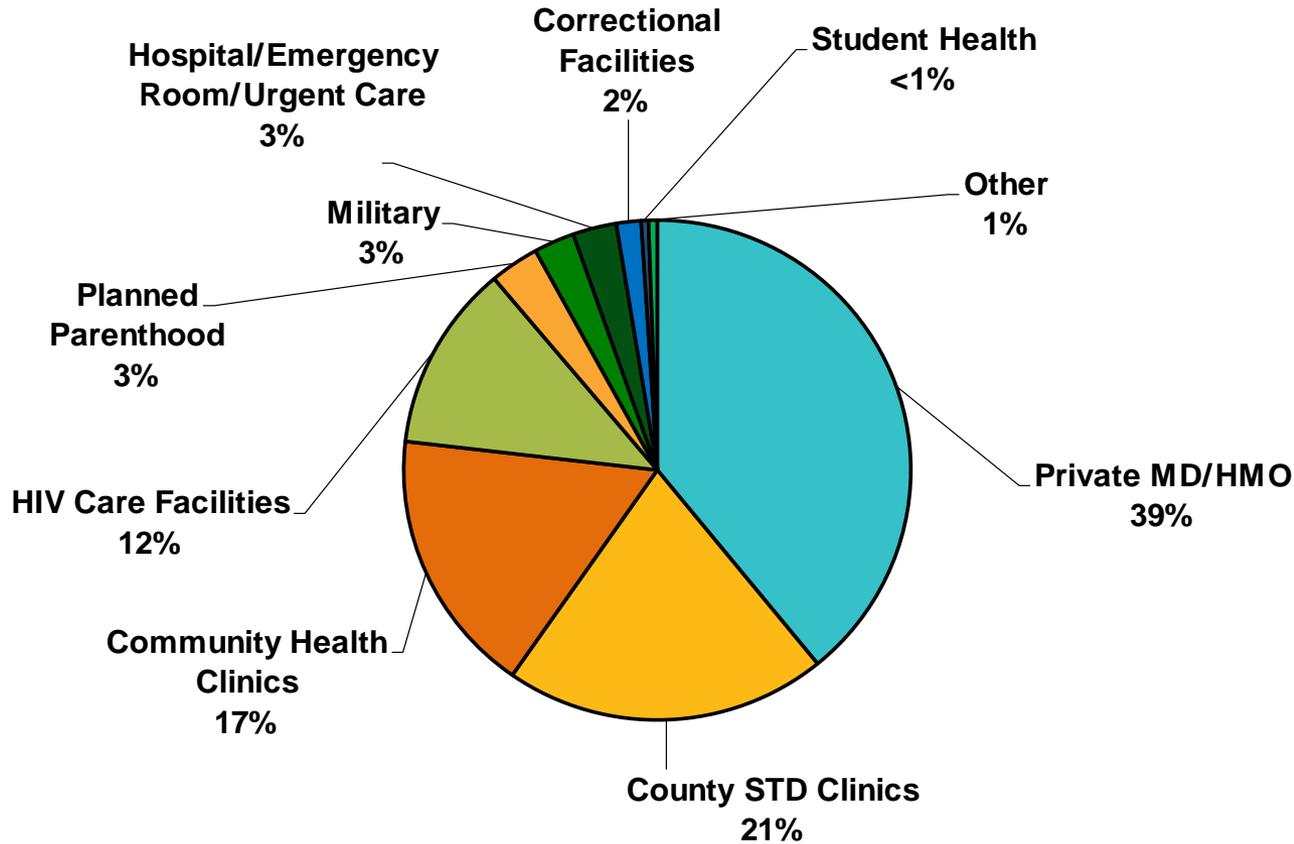
Note: Rates exclude 41 cases missing race/ethnicity information and 37 cases with other/mixed race designations.
Rates calculated using 2018 population estimates provided by the Community Health Statistics Unit.

Percent of MSM* Early Syphilis Cases Co-Infected with HIV by Year San Diego County, 2009 - 2018



*MSM: Men Who Have Sex With Men

Early Syphilis Cases by Reporting Facility Type San Diego County, 2018



Female & Congenital Syphilis



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Key Points

Female & Congenital Syphilis in San Diego County

- Cases and rates of syphilis of any stage and early (i.e., primary, secondary, and early latent) syphilis in females aged 15-49 years (i.e. women of childbearing potential) have been increasing overall from 2014-2018.
 - Cases of total syphilis (all stages) increased by 28% from 146 cases in 2017 to 187 cases in 2018, and the rate increased by 35% from 18.3 cases per 100,000 in 2017 to 24.7 cases per 100,000 in 2018.
 - Cases of early syphilis increased by 22% from 45 cases in 2017 to 55 cases in 2018. The rate of early syphilis in women of childbearing age in 2018 was 1.3 times higher than it was in 2017, although the increase was not statistically significant.
- Congenital syphilis rates have generally increased from 2014 through 2018, with the largest increase by 40.5% between 2017-2018, though none of the increases in rates were statistically significant.
- There were 5 stillbirths reported in this time period: 2 in 2014, 1 in 2015, 1 in 2017, and 1 in 2018.



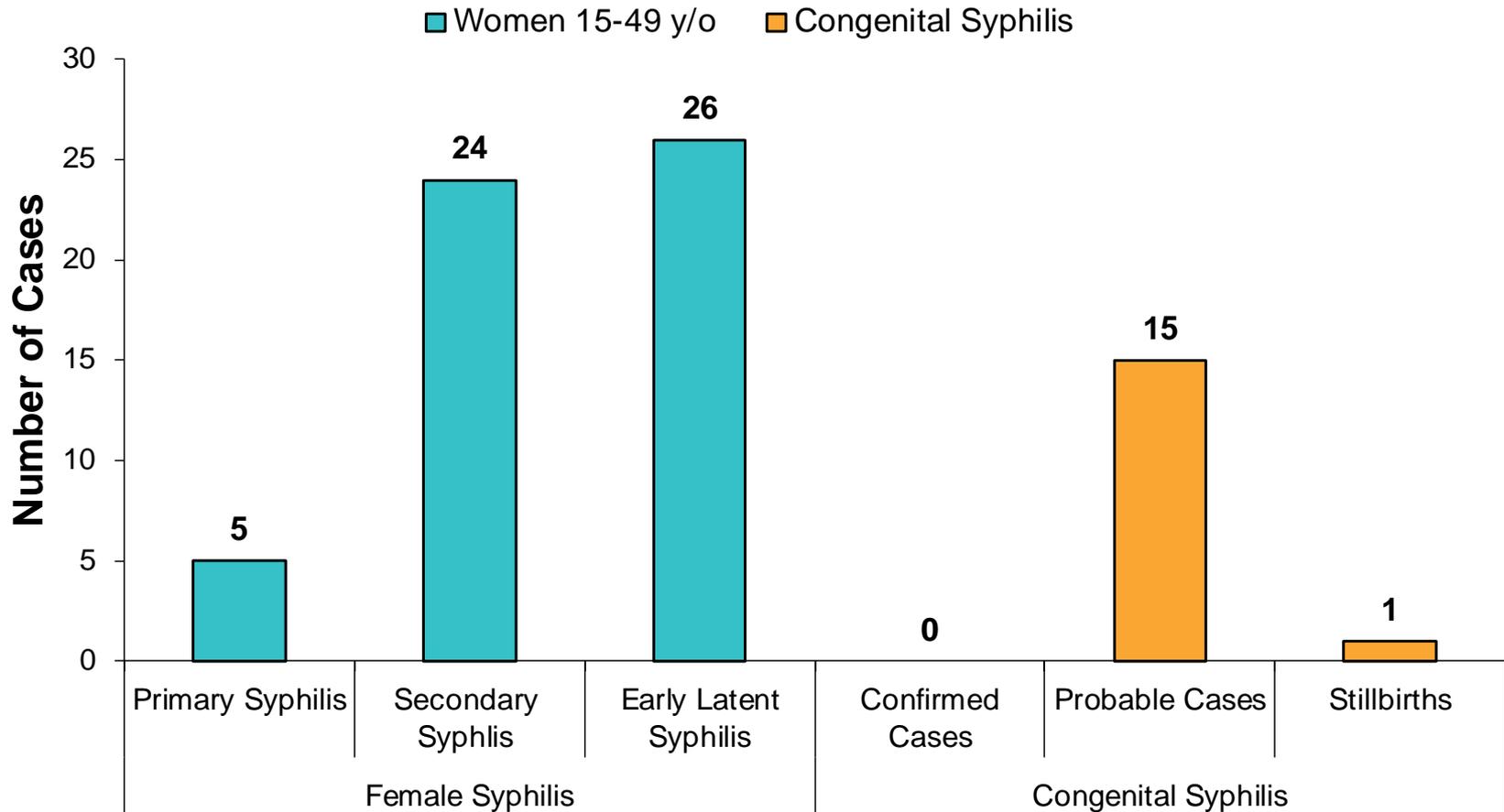
Congenital Syphilis Surveillance Definitions

- Congenital Syphilis (C.S.): any infant whose mother had untreated or inadequately treated* syphilis at the time of delivery, regardless of findings in the infant or child
 - Confirmed C.S.: Infant or child in whom *Treponema pallidum* is identified by darkfield microscopy, direct fluorescent antibody, or other specific stains in specimens from lesions, placenta, umbilical cord, or autopsy material
 - Probable C.S.: Meets case definition of C.S. This may also include an infant or child with a reactive treponemal test for syphilis and evidence of C.S. on physical examination, cerebrospinal fluid analysis, and/or long bone X-ray.
 - Syphilitic Stillbirth: Fetal death in which mother had untreated or inadequately treated* syphilis at the time of delivery of either a fetus after a 20-week gestation or a fetus weighing >500 grams.

*Inadequate maternal treatment refers to incomplete treatment, treatment that is not in accordance with national guidelines, and/or treatment that was not initiated at least 30 days prior to delivery.

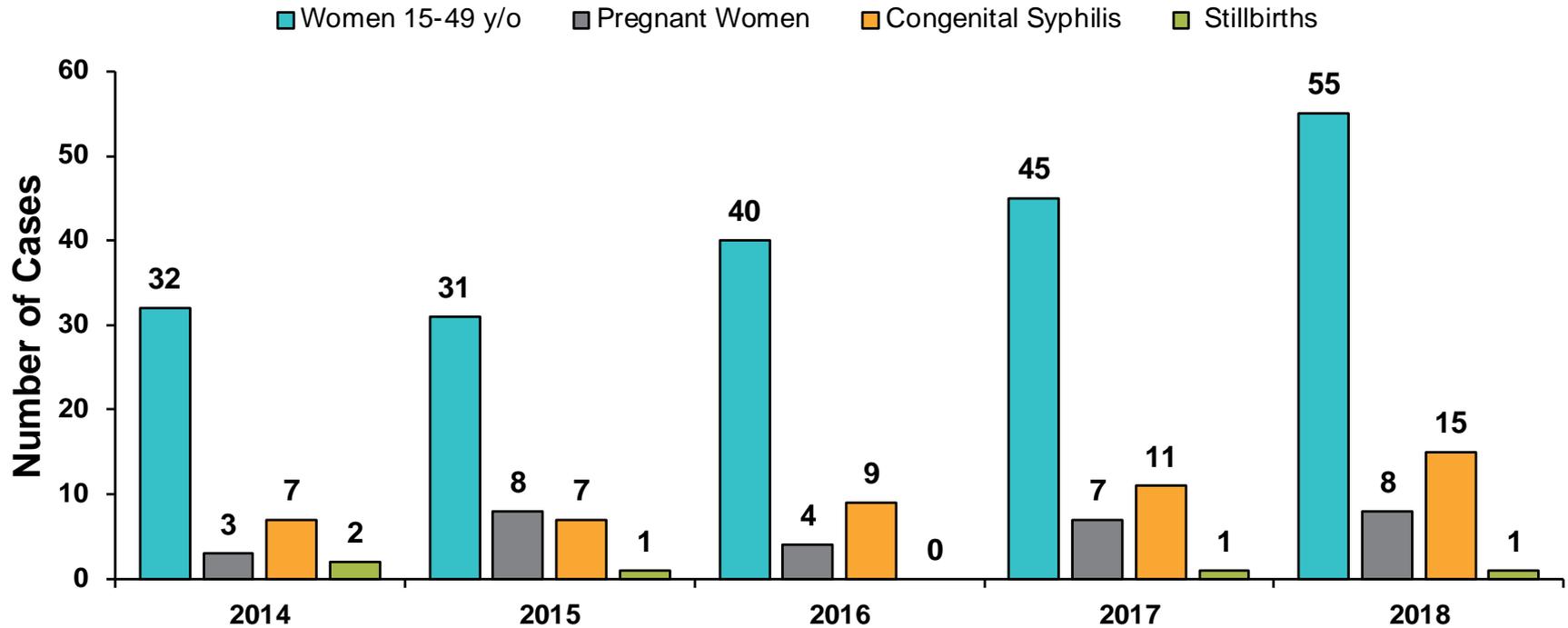


Cases of Syphilis in Women of Childbearing Age and Congenital Syphilis San Diego County, 2018



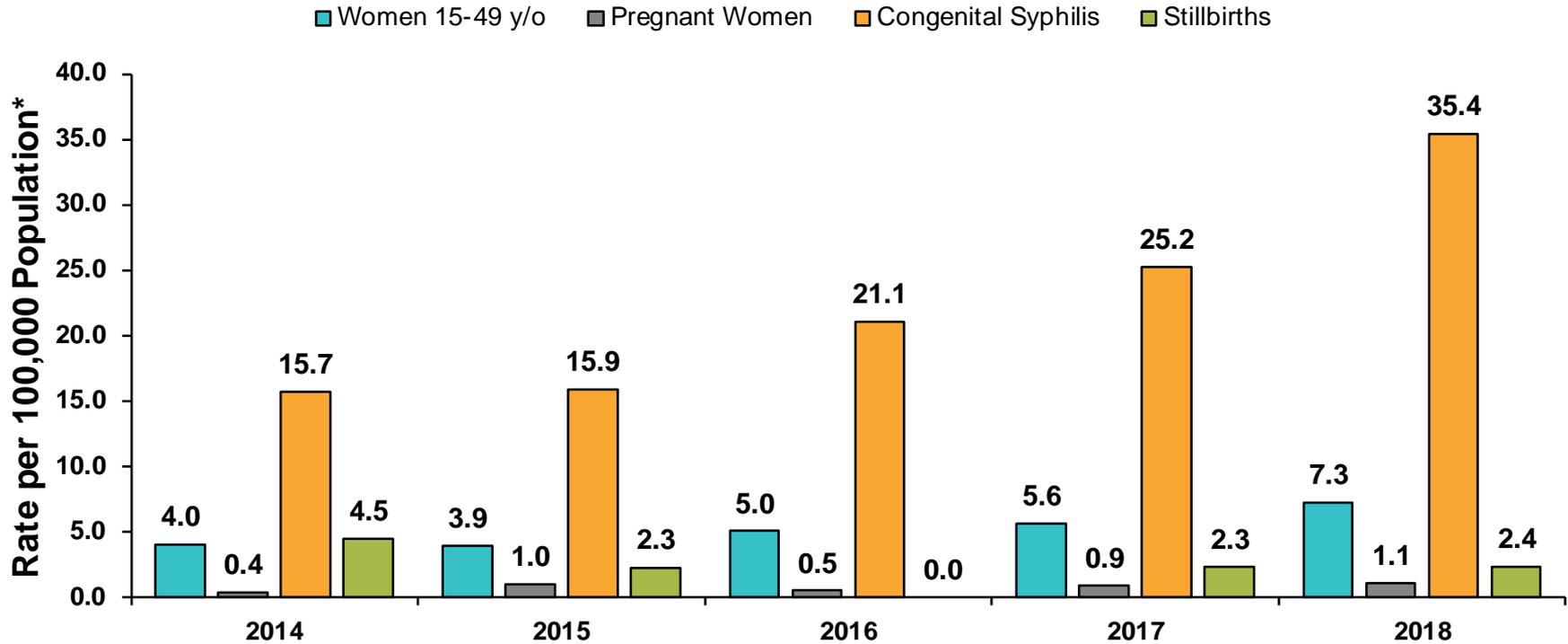
Note: Syphilitic stillbirth is included in the probable case count.

Cases – Early Syphilis in Women of Childbearing Age (15-49 y/o) & Pregnant Women, Congenital Syphilis, & Stillbirths San Diego County, 2014 - 2018



Note: Early syphilis includes primary, secondary, and early latent stages of syphilis.
Syphilitic stillbirths are included in the congenital syphilis case counts.

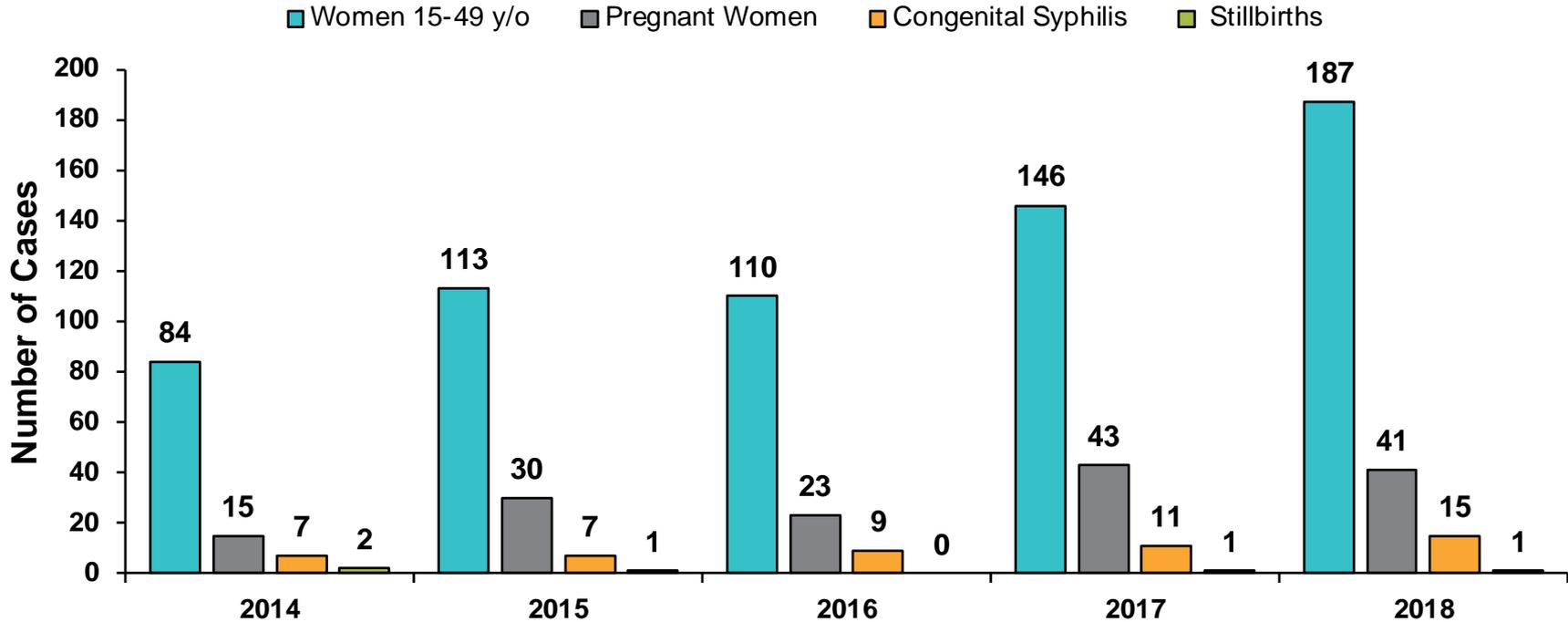
Rates – Early Syphilis in Women of Childbearing Age (15-49 y/o) & Pregnant Women, Congenital Syphilis, & Stillbirths San Diego County, 2014 - 2018



Note: Early syphilis includes primary, secondary, and early latent stages of syphilis.
 *Rates for women 15-49 y/o and pregnant women were defined based on population estimates of women 15-49 years of age.
 Rates for congenital syphilis and stillbirths were defined based on the number of births.

Cases - Syphilis (All Stages) in Women of Childbearing Age (15-49 y/o) & Pregnant Women, Congenital Syphilis, & Stillbirths

San Diego County, 2014 - 2018

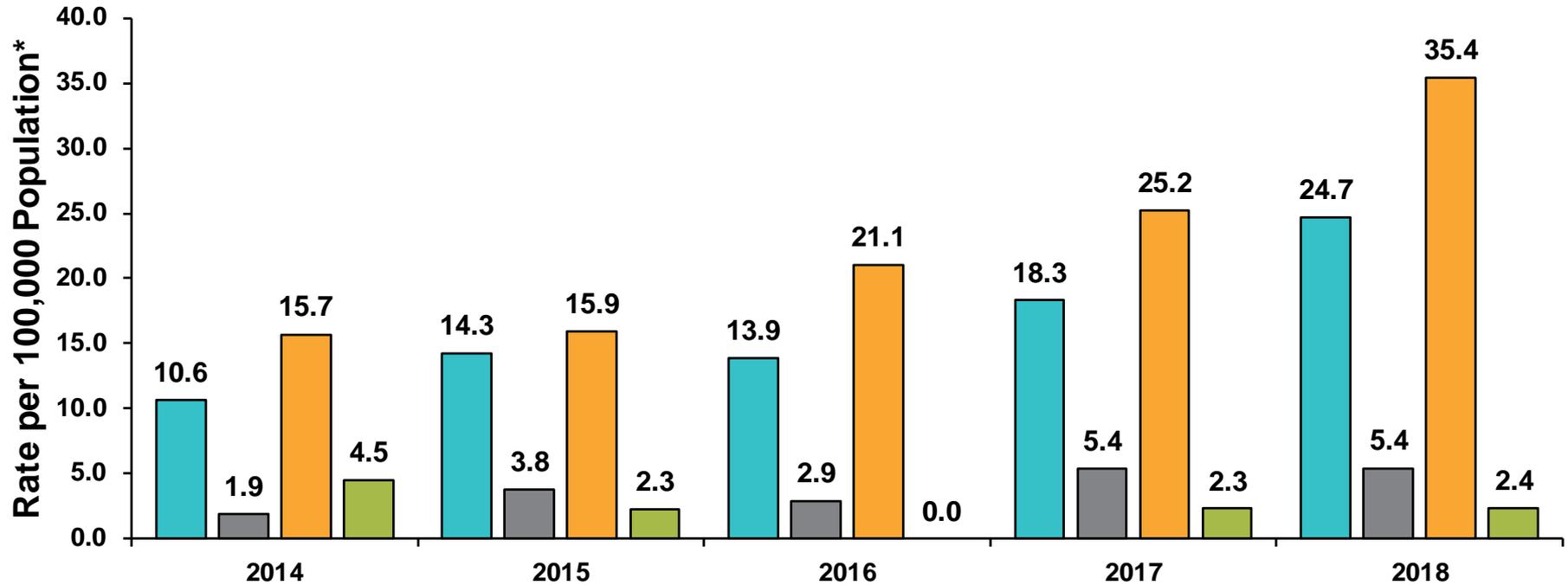


Note: Syphilis includes all stages of syphilis. Syphilitic stillbirths are included in the congenital syphilis case counts.

Rates - Syphilis (All Stages) in Women of Childbearing Age (15-49 y/o) & Pregnant Women, Congenital Syphilis, & Stillbirths San Diego County, 2014 - 2018



■ Women 15-49 y/o
 ■ Pregnant Women
 ■ Congenital Syphilis
 ■ Stillbirths



Note: Syphilis includes all stages of syphilis.
 *Rates for women 15-49 y/o and pregnant women were defined based on population estimates of women 15-49 years of age.
 Rates for congenital syphilis and stillbirths were defined based on the number of births.

Contact Information



For questions or requests for data that are not included in these slides, please send an e-mail to std@sdcounty.ca.gov, or visit www.STDSanDiego.org (click on “Reports and Statistics”).

