



Sexually Transmitted Disease (STD) Surveillance Report, 2021

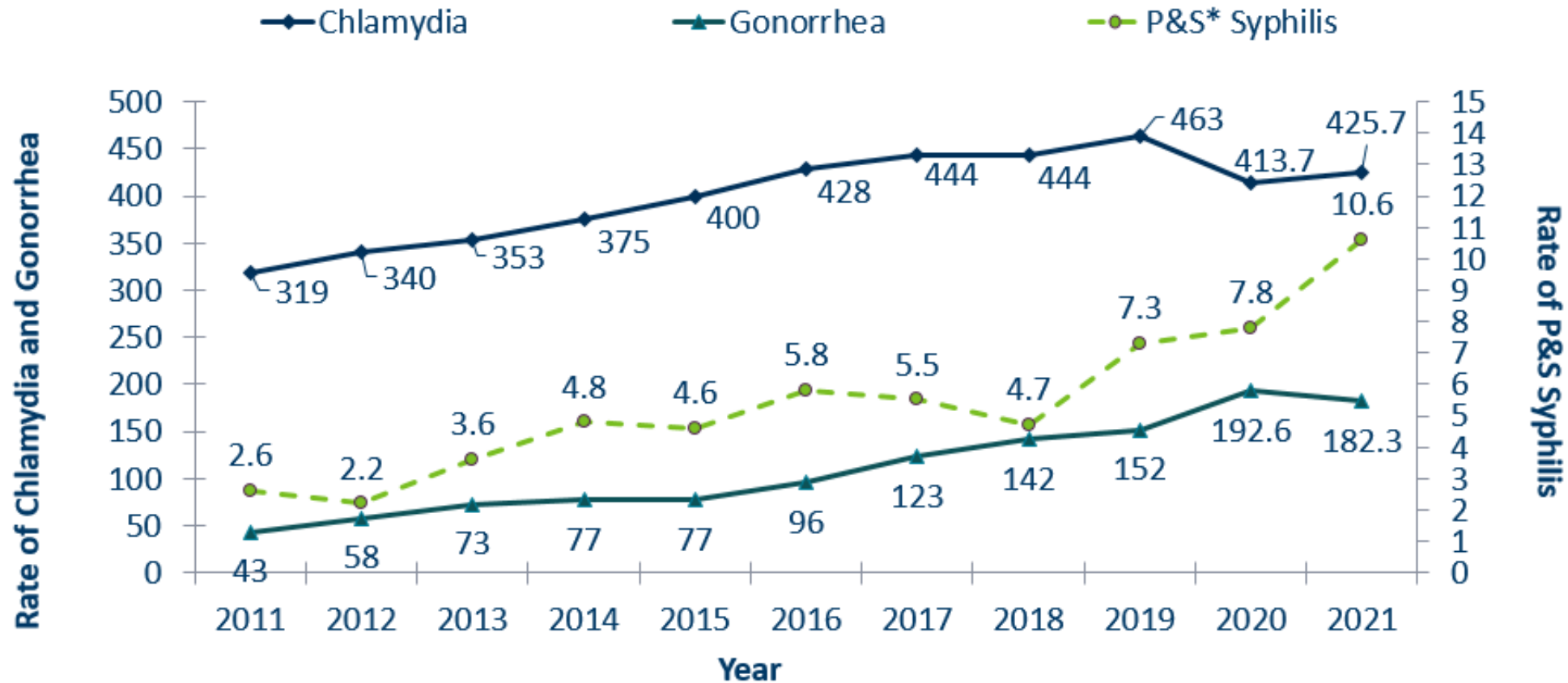
Minnesota Department of Health STD Surveillance System



STDs in Minnesota: Number of Cases Reported in 2021

- Total of 33,706 STD cases reported to MDH in 2021:
 - 22,578 Chlamydia cases
 - 9,671 Gonorrhea cases
 - 1457 Syphilis cases (all stages)
 - 0 Chancroid cases

STDs in Minnesota: Rate per 100,000 by Year of Diagnosis, 2011-2021



* P&S = Primary and Secondary



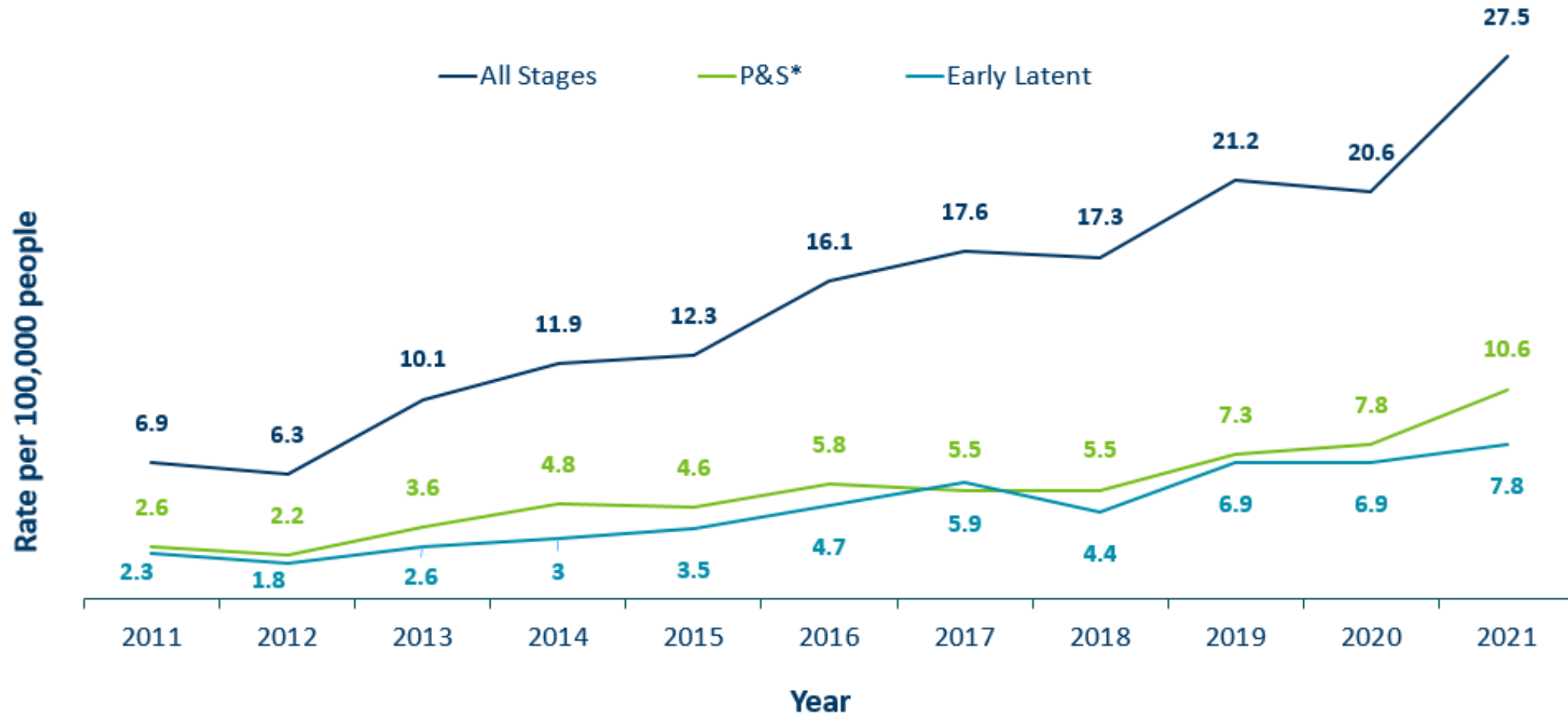
Interpreting STD Surveillance Data

- Factors that impact the completeness and accuracy of STD data include:
 - Level of STD screening by healthcare providers
 - Individual test-seeking behavior
 - Sensitivity of diagnostic tests
 - Compliance with case reporting
 - Completeness of case reporting
 - Timeliness of case reporting
- Increases and decreases in STD rates can be due to actual changes in disease occurrence and/or changes in one or more of the above factors.
- COVID-19 lockdowns likely played a role in the number of cases reported/diagnosed this past year.

Syphilis

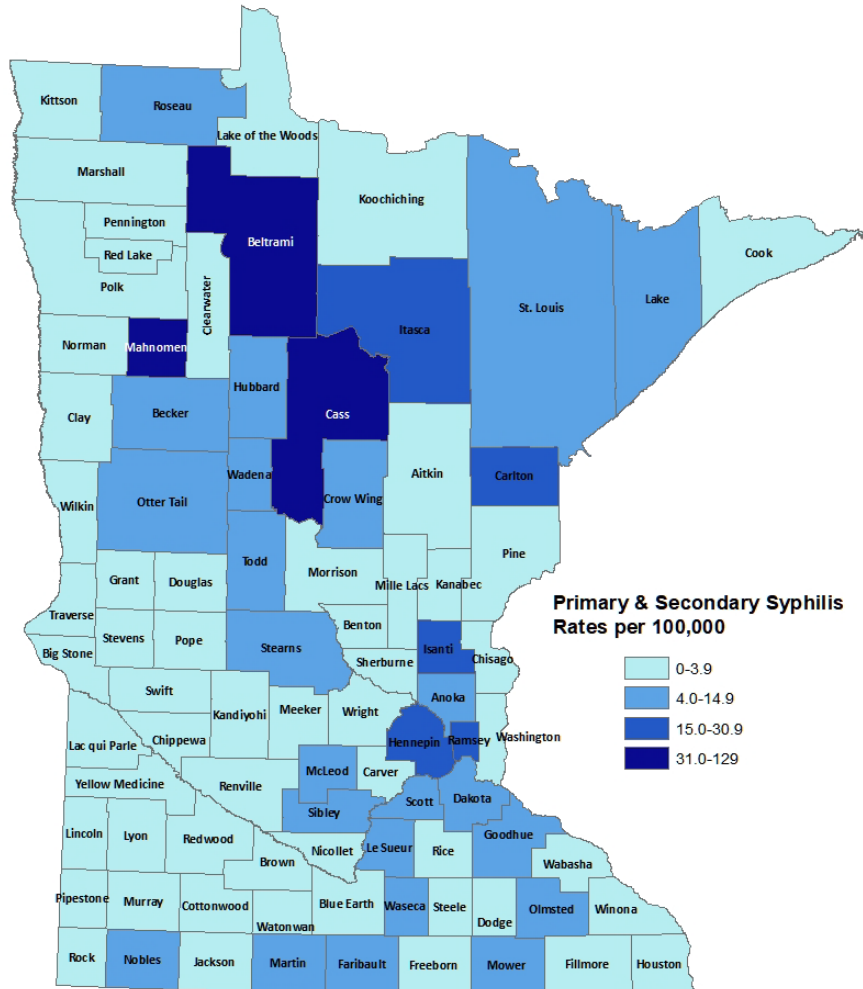
Minnesota Department of Health STD Surveillance System

Syphilis Rates by Stage of Diagnosis, Minnesota, 2011-2021



* P&S = Primary and Secondary

2021 Minnesota Primary & Secondary Syphilis Rates by County

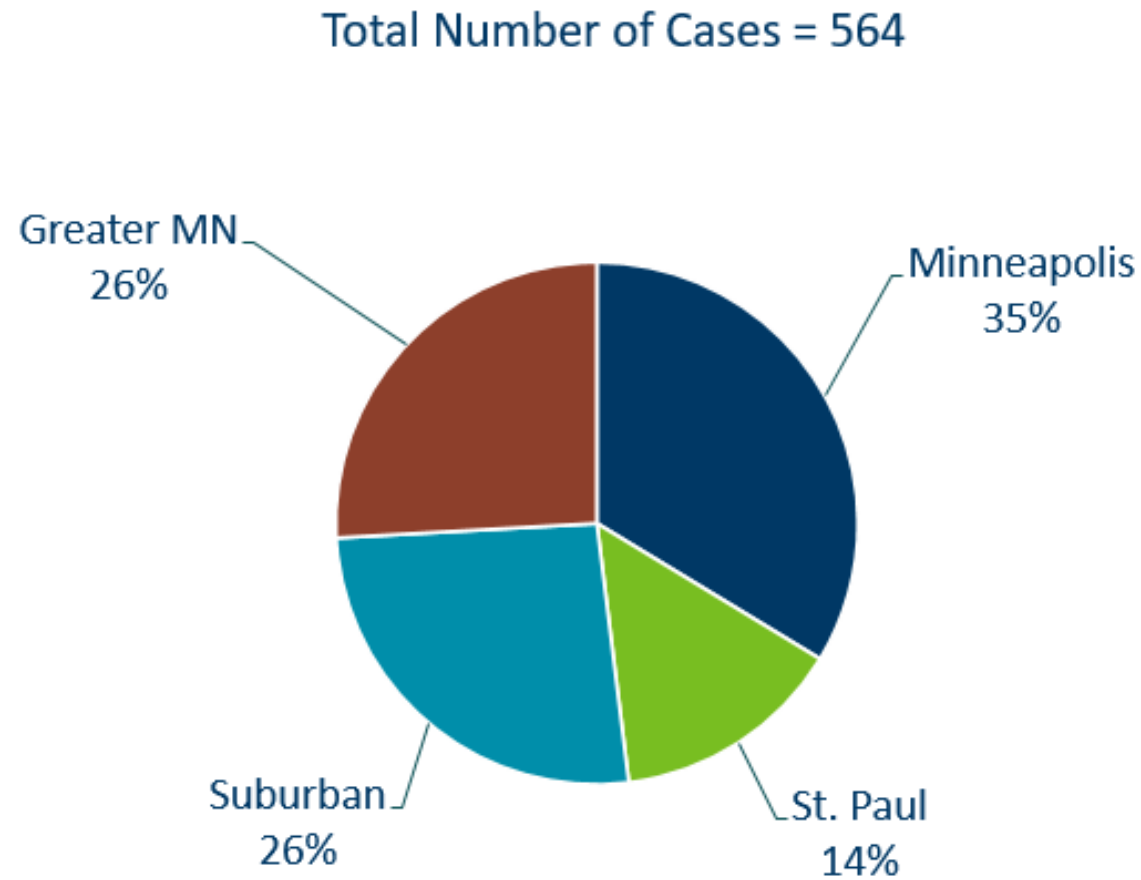


City of Minneapolis
City of St. Paul
Suburban*
Greater Minnesota
Total

49.7 per 100,000 (144 cases)
28.4 per 100,000 (37 cases)
6.7 per 100,000 (104 cases)
5.9 per 100,000 (131 cases)
10.6 per 100,000 (416 cases)

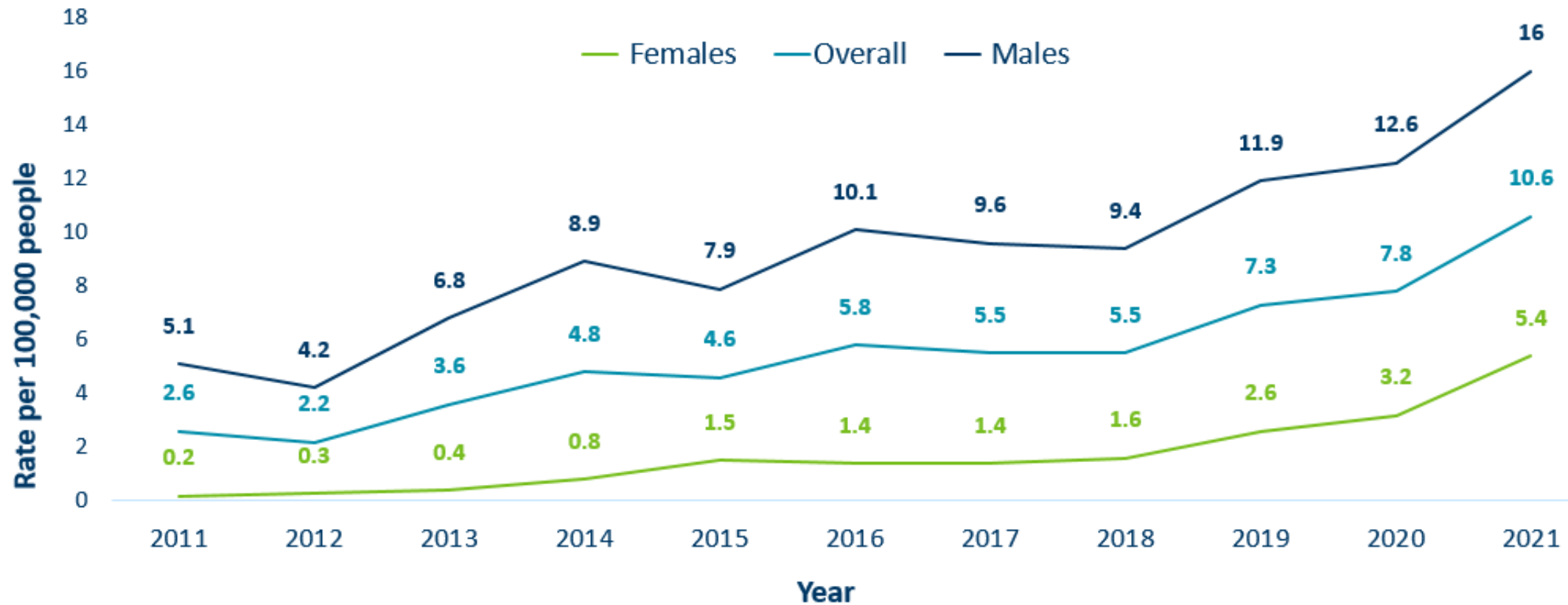
*7-county metro area, excluding the cities of Minneapolis and St. Paul

Primary & Secondary Syphilis Infections by Residence at Diagnosis Minnesota, 2021

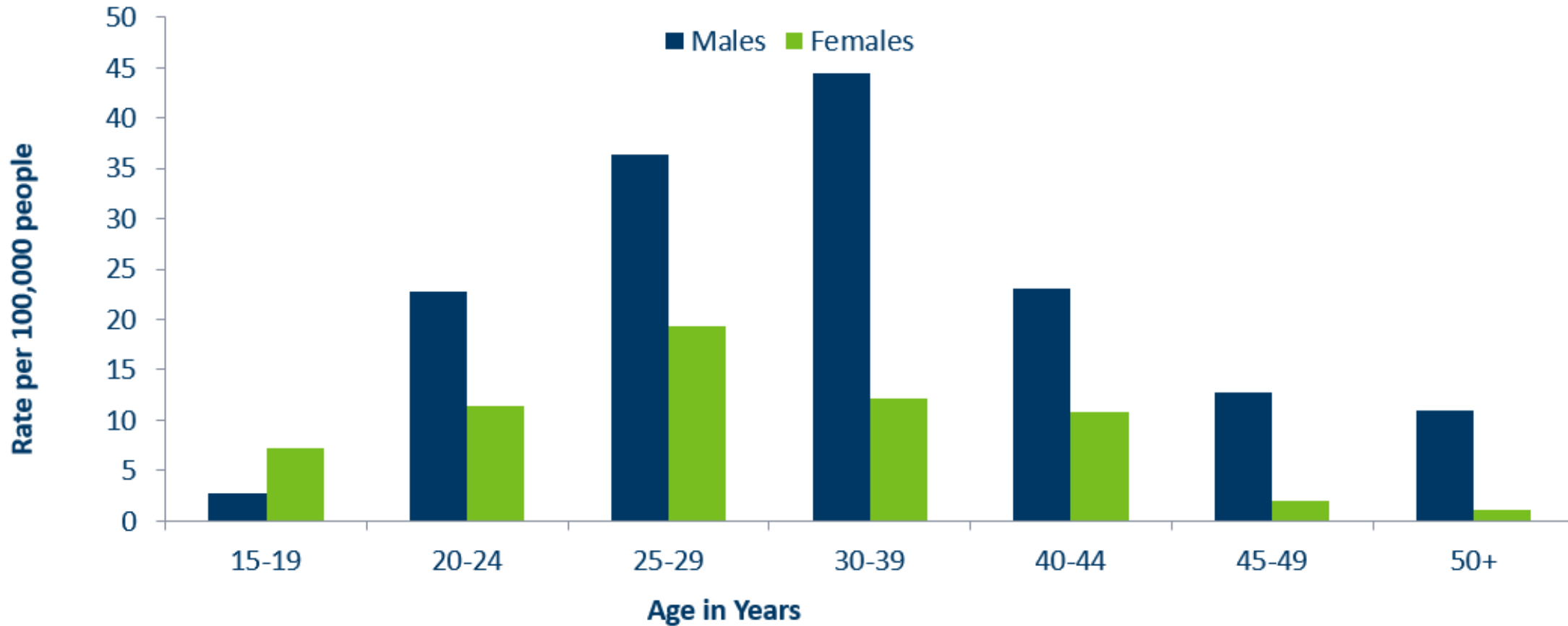


Suburban = Seven-county metro area including Anoka, Carver, Dakota, Hennepin (excluding Minneapolis), Ramsey (excluding St. Paul), Scott, and Washington counties. Greater MN = All other Minnesota counties outside the seven-county metro area.

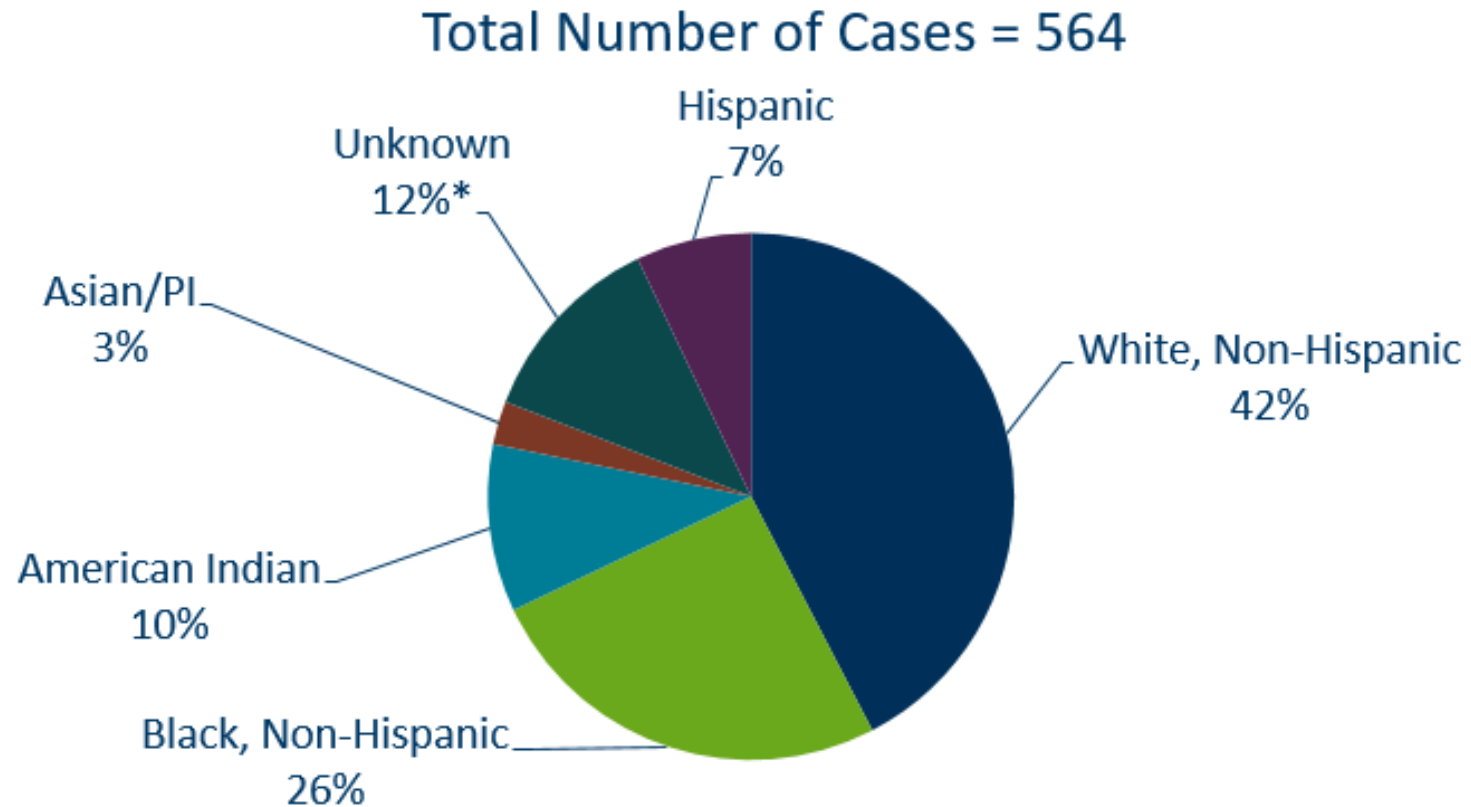
Primary & Secondary Syphilis Rates by Gender, Minnesota, 2011-2021



Age-Specific Primary & Secondary Syphilis Rates by Gender, Minnesota, 2021

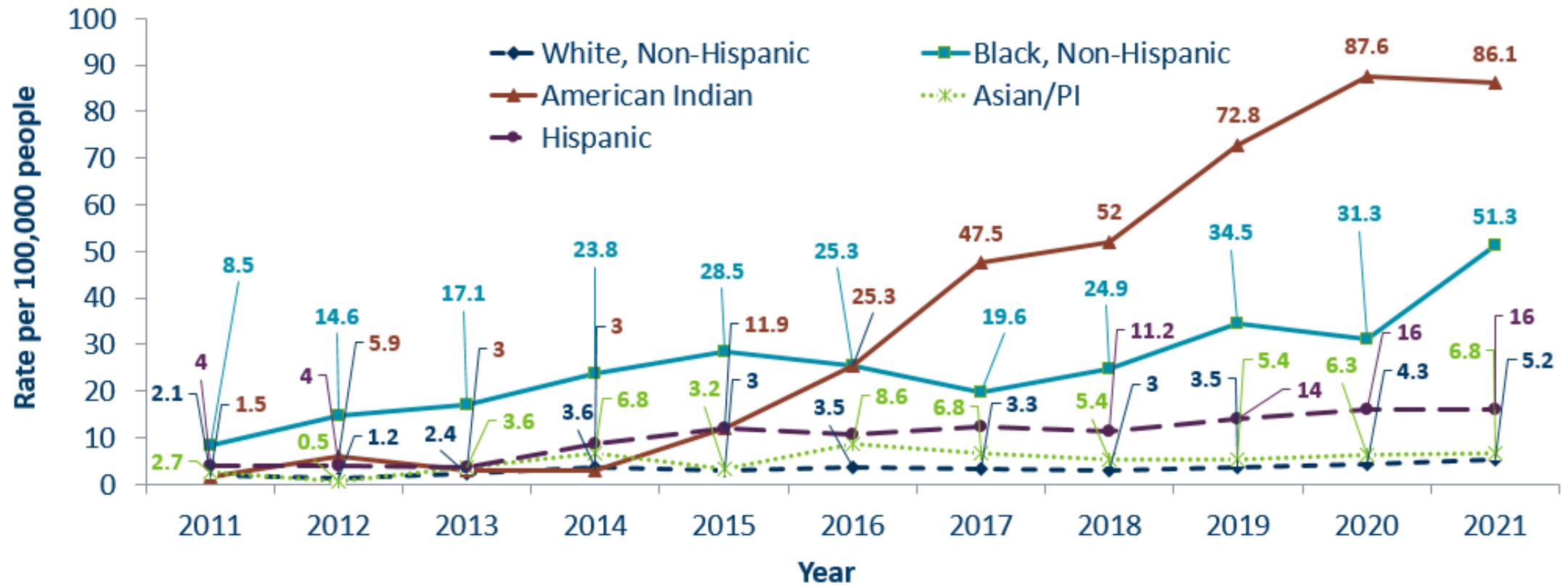


Primary & Secondary Syphilis Cases by Race Minnesota, 2021



*Includes people reported with more than one race

Primary & Secondary Syphilis Rates by Race/Ethnicity Minnesota, 2011-2021

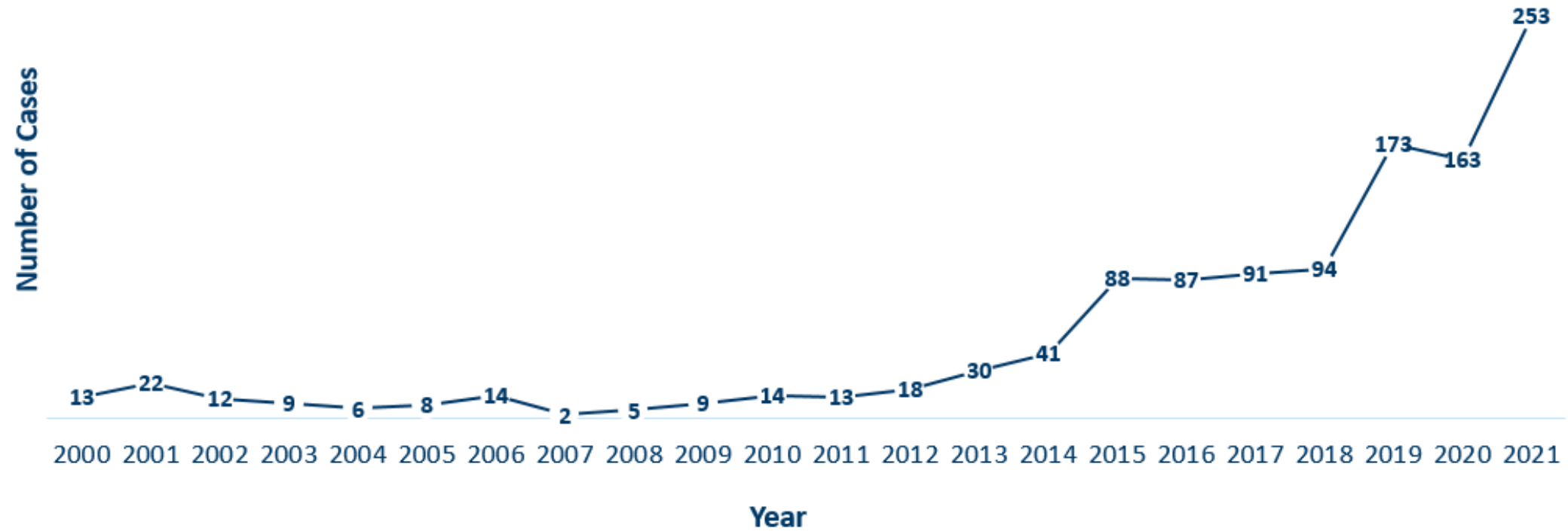


* people of Hispanic ethnicity can be of any race.

Topic of Interest: Syphilis Among Females and Congenital Syphilis in Minnesota

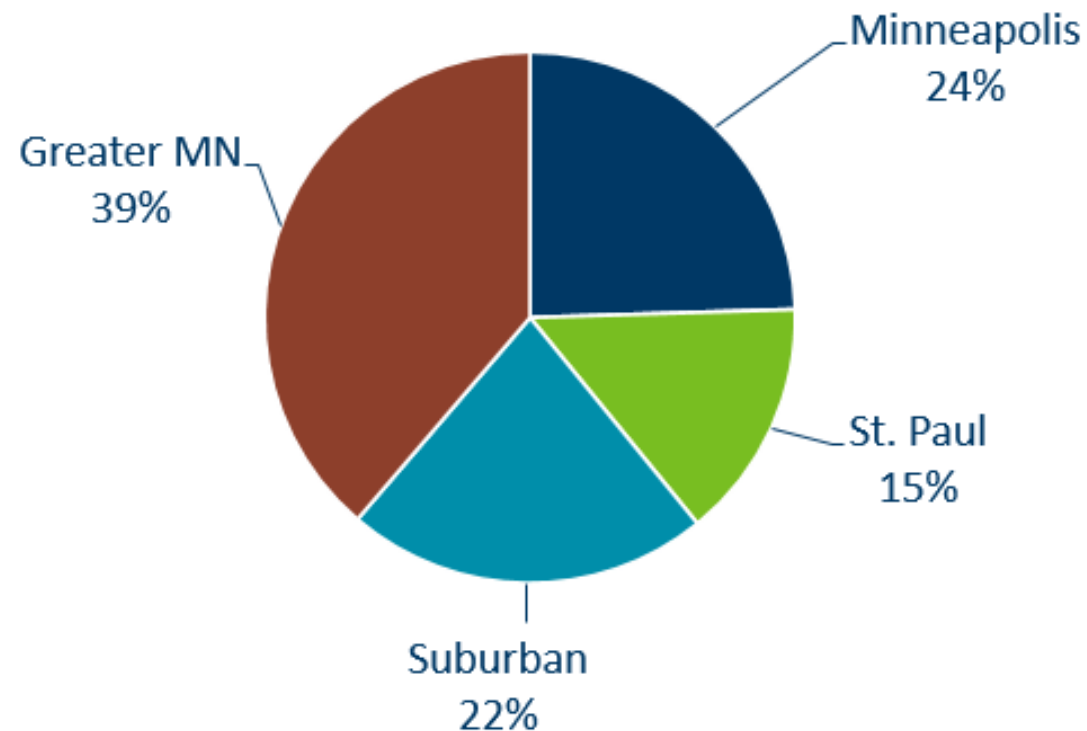
Minnesota Department of Health STD Surveillance System

Female Early Syphilis Cases Minnesota, 2021



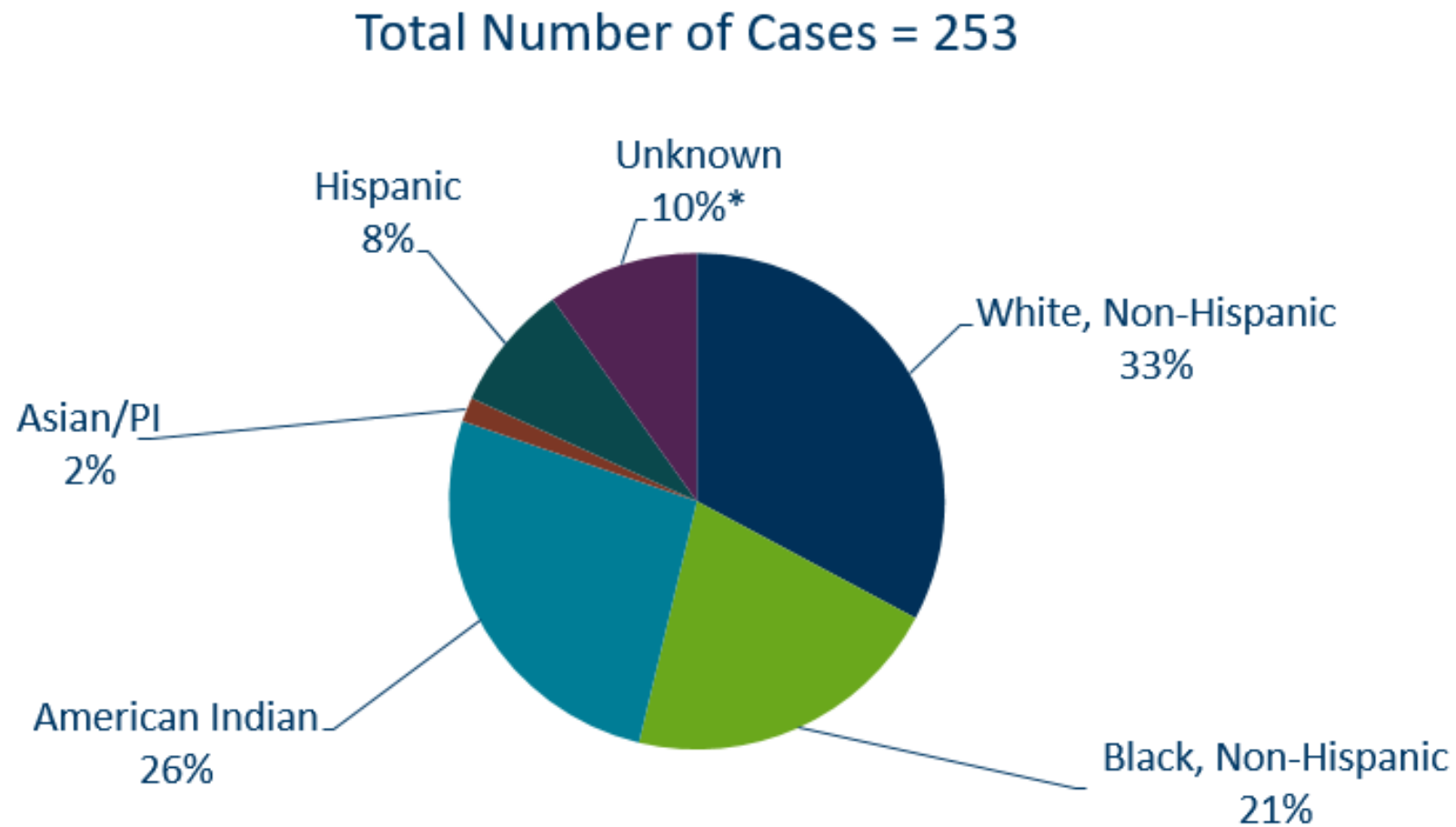
Early Syphilis Infections in Females by Residence at Diagnosis Minnesota, 2021

Total Number of Cases = 253



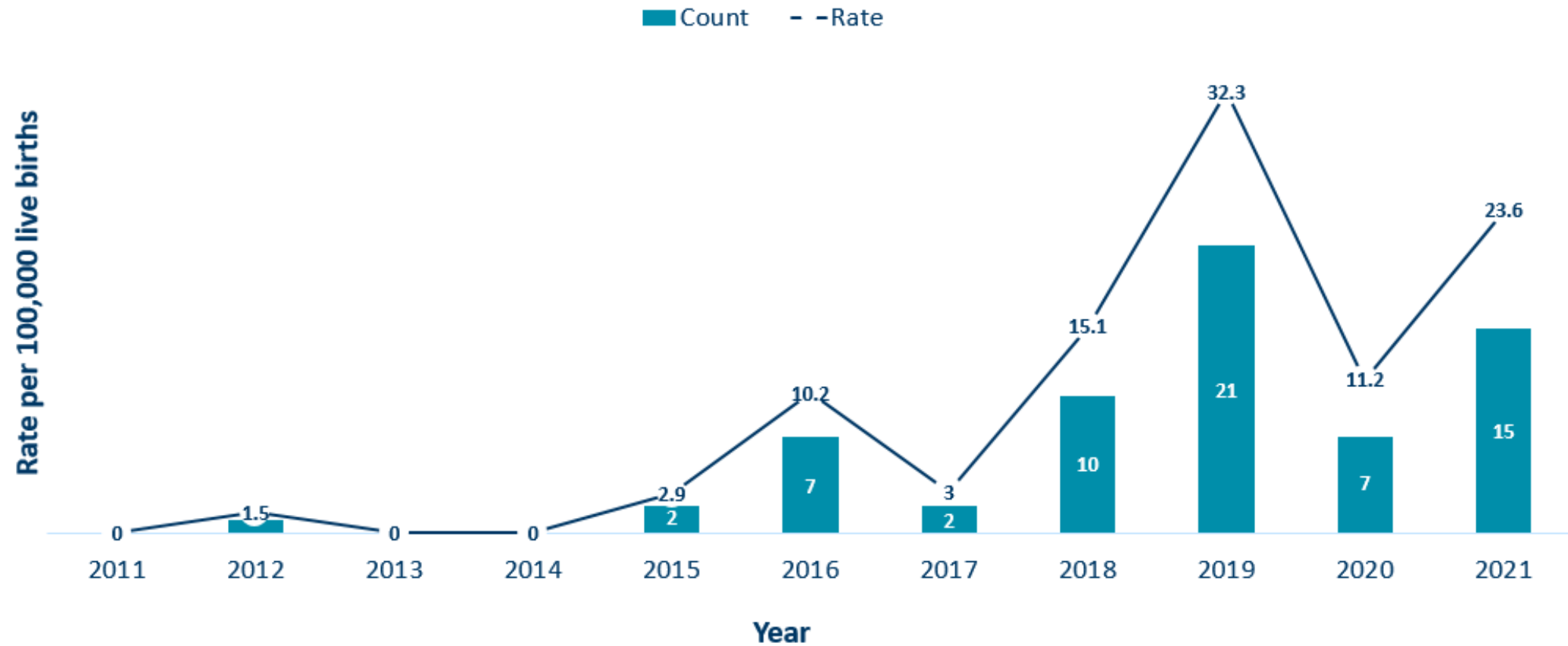
Suburban = Seven-county metro area including Anoka, Carver, Dakota, Hennepin (excluding Minneapolis), Ramsey (excluding St. Paul), Scott, and Washington counties. Greater MN = All other Minnesota counties outside the seven-county metro area.

Early Syphilis Cases in Females by Race/Ethnicity Minnesota, 2021



*Includes people reported with more than one race

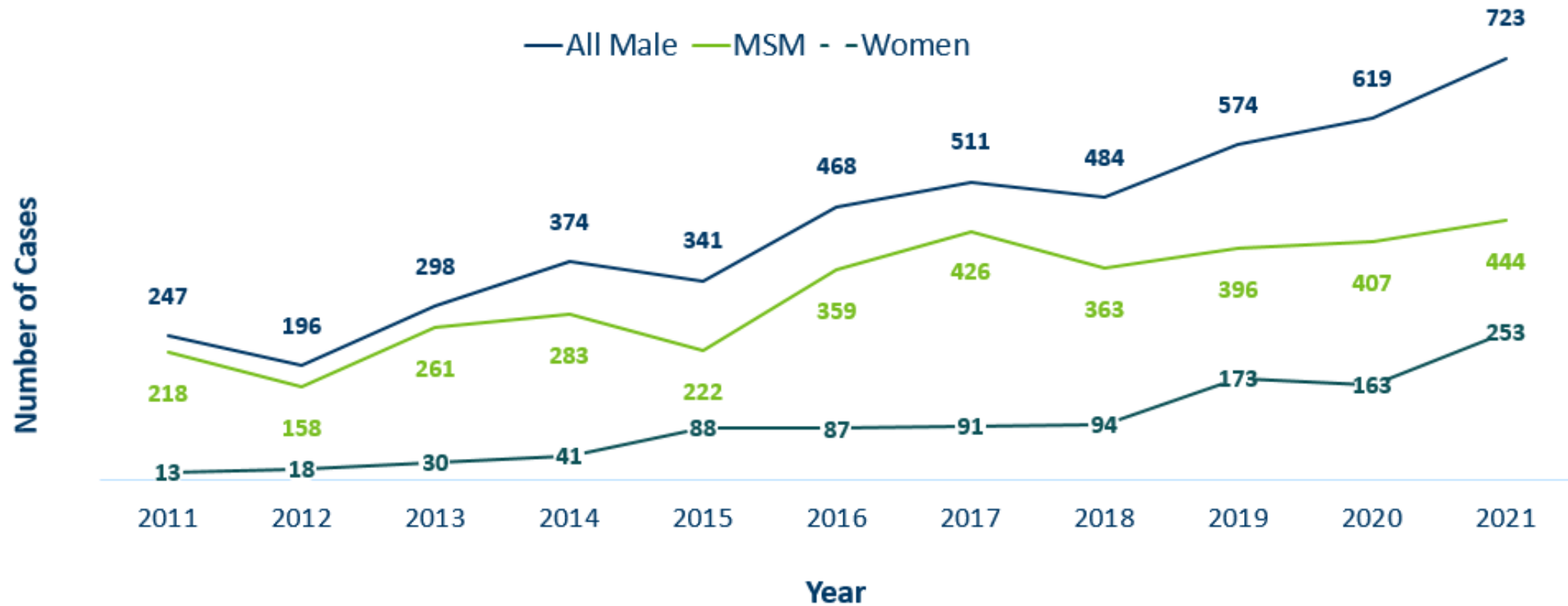
Congenital Syphilis Rates Among Infants Minnesota, 2011-2021



Topic of Interest: Early Syphilis Among Men Who Have Sex With Men in Minnesota

Minnesota Department of Health STD Surveillance System

Number of Early Syphilis[†] Cases by Gender and MSM Minnesota, 2011-2021

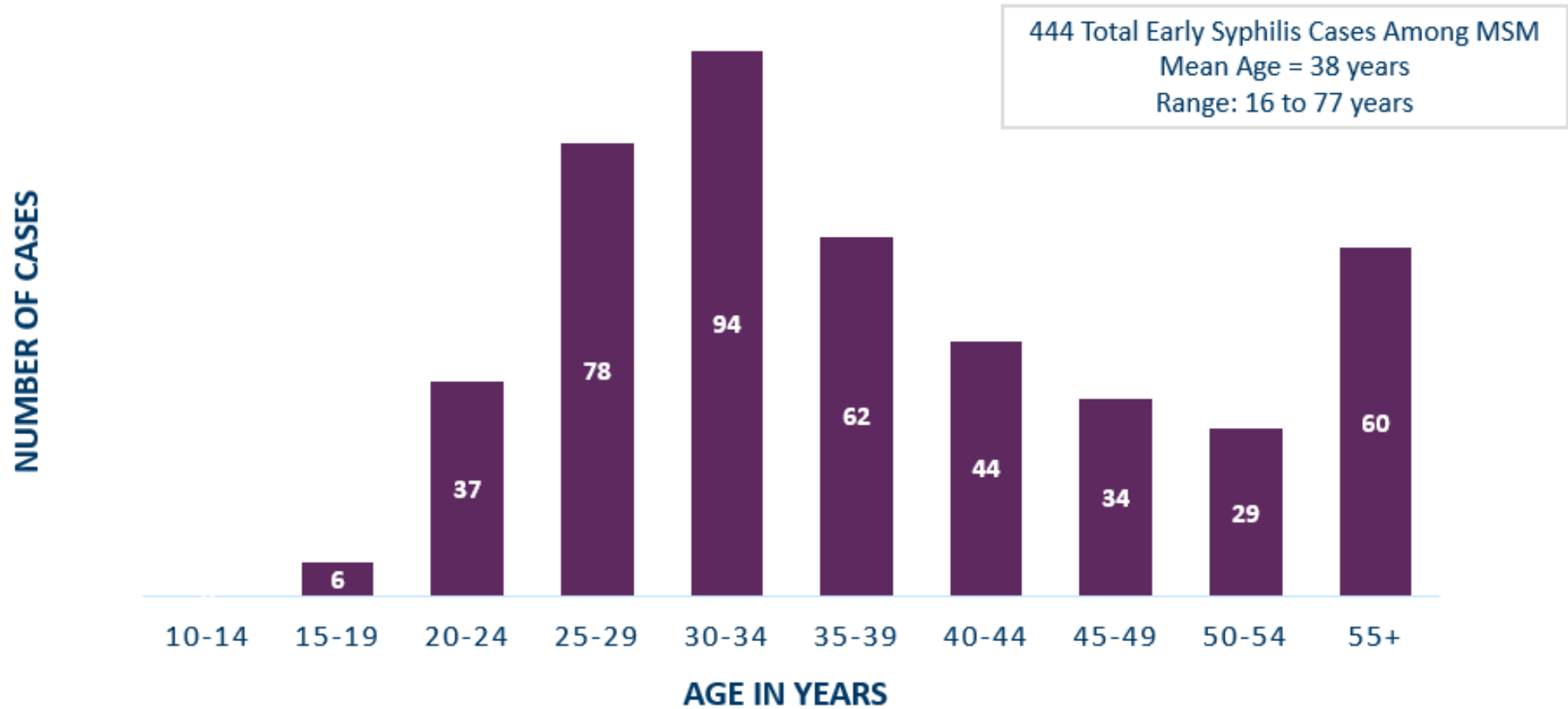


MSM=Men who have sex with men.

Figure does not include cases diagnosed in transgender people

[†] Early Syphilis includes primary, secondary, and early latent stages of syphilis.

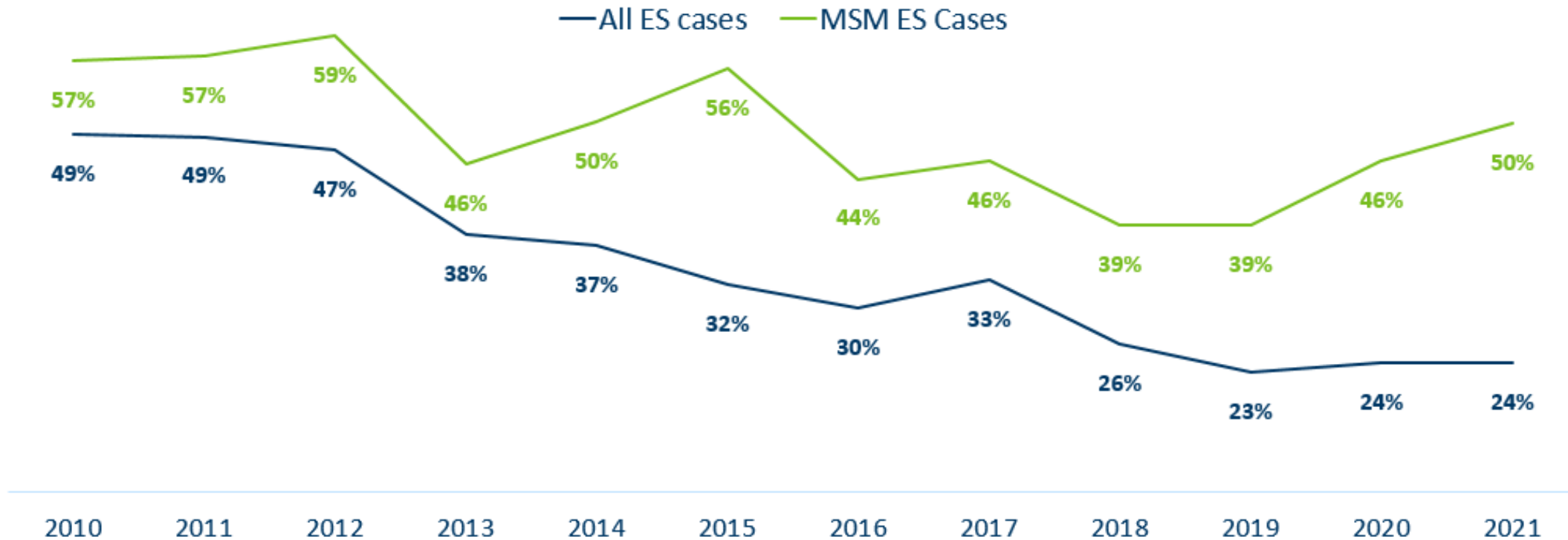
Early Syphilis[†] Cases Among MSM by Age Minnesota, 2021



MSM=Men who have sex with men

[†] Early Syphilis includes primary, secondary, and early latent stages of syphilis.

Early Syphilis[†] (ES) Cases Co-infected with HIV, 2011-2021



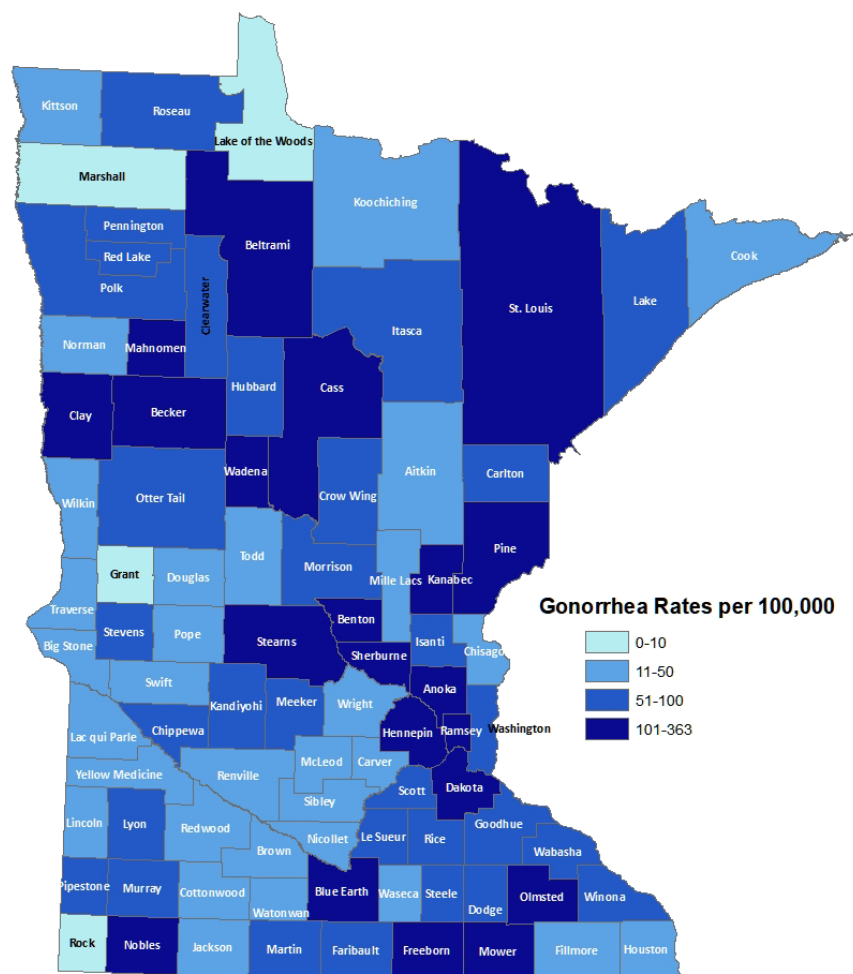
MSM=Men who have sex with men

[†] Early Syphilis includes primary, secondary, and early latent stages of syphilis.

Gonorrhea

Minnesota Department of Health STD Surveillance System

2021 Minnesota Gonorrhea Rates by County

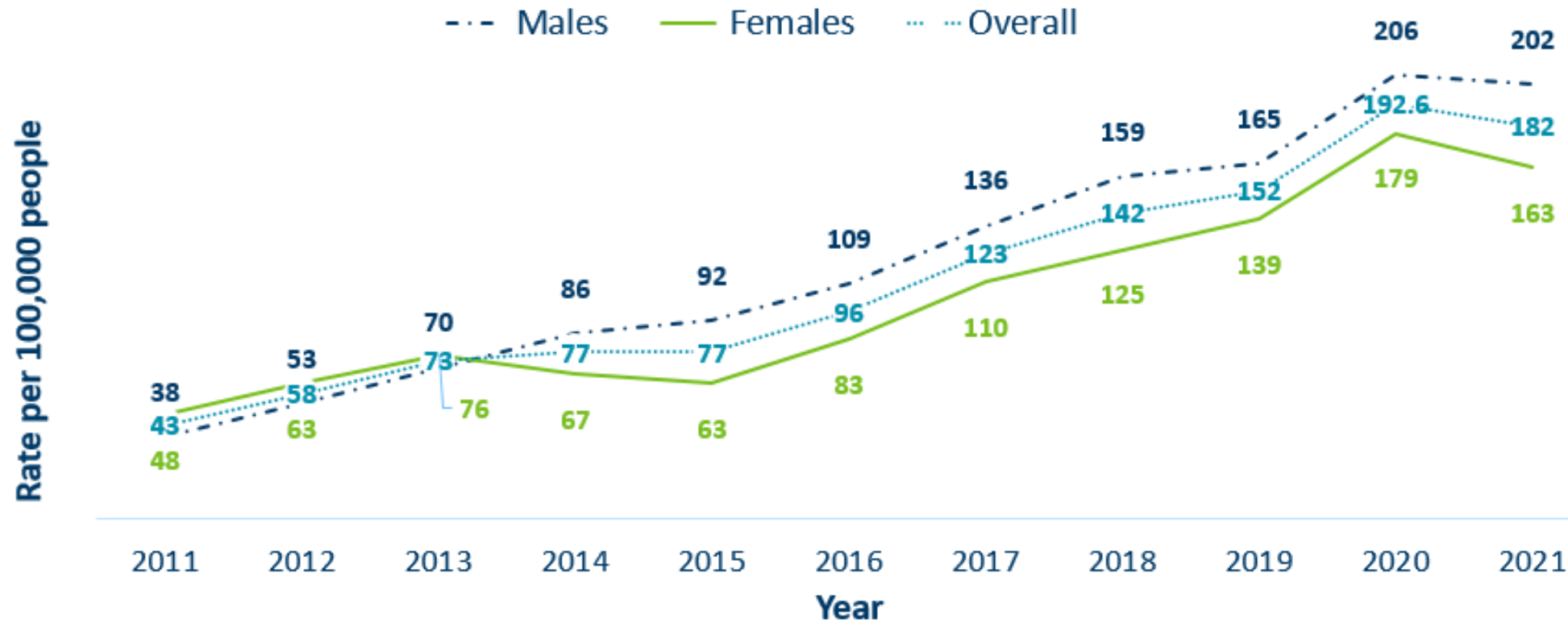


City of Minneapolis	764 per 100,000 (2,973 cases)
City of St. Paul	514 per 100,000 (1,524 cases)
Suburban*	126 per 100,000 (3,083 cases)
Greater Minnesota	97 per 100,000 (2,430 cases)
Total	182.3 per 100,000 (9,671 cases) (150 cases missing residence information)

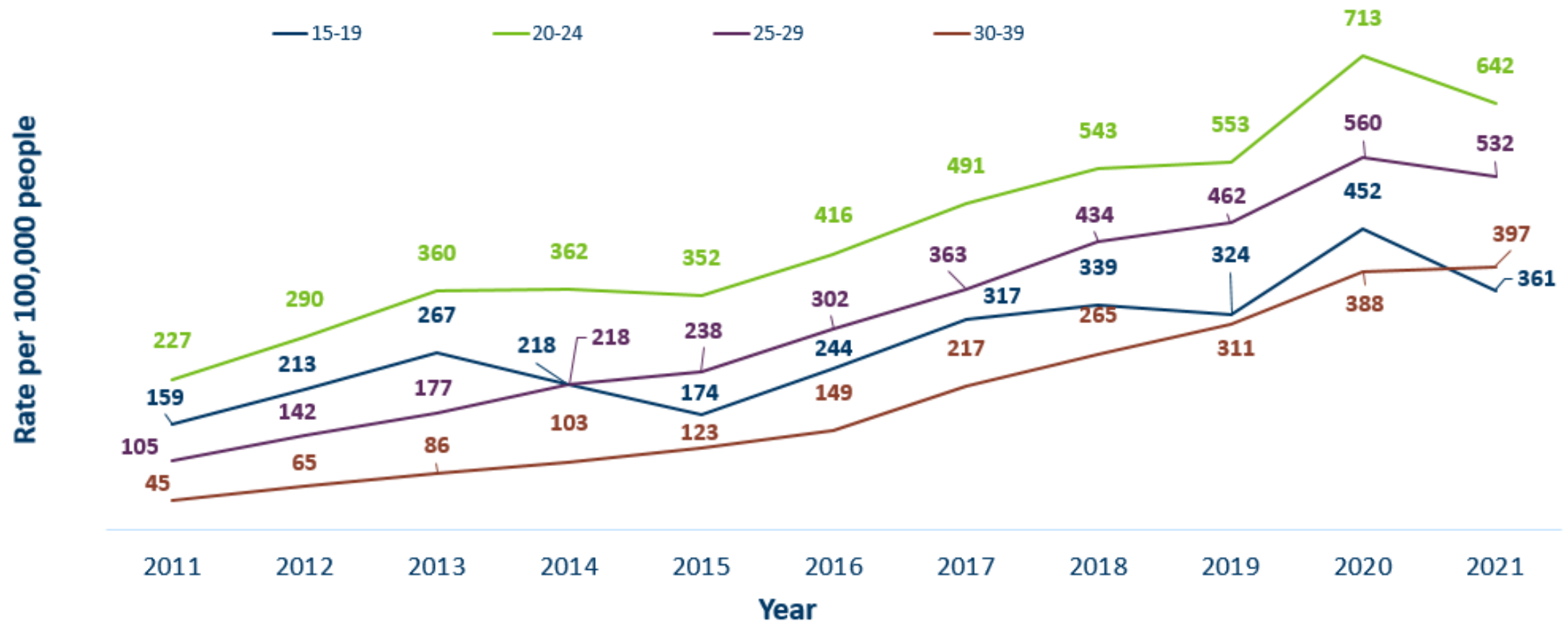
*7-county metro area, excluding the cities of Minneapolis and St. Paul

Gonorrhea Rates by Gender

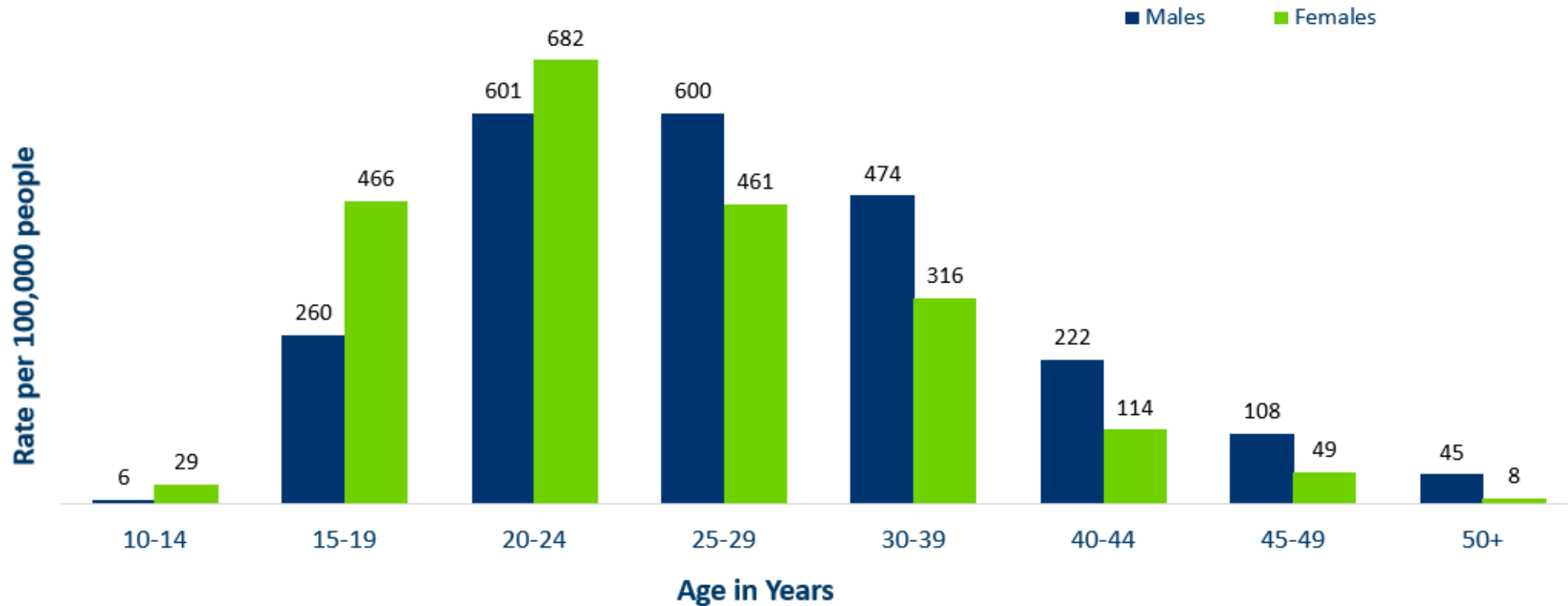
Minnesota, 2011-2021



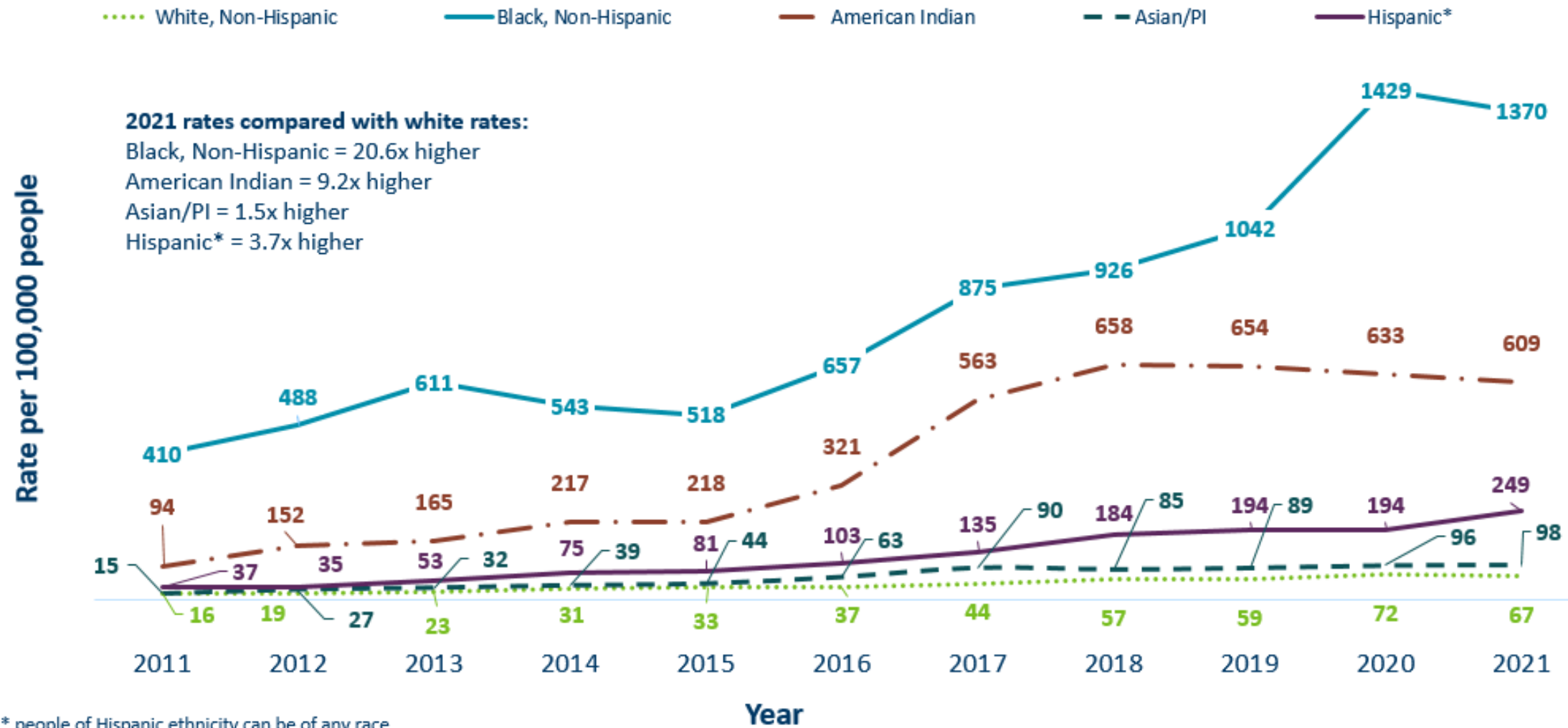
Gonorrhea Rates by Age Minnesota, 2011-2021



Age-Specific Gonorrhea Rates by Gender Minnesota, 2021



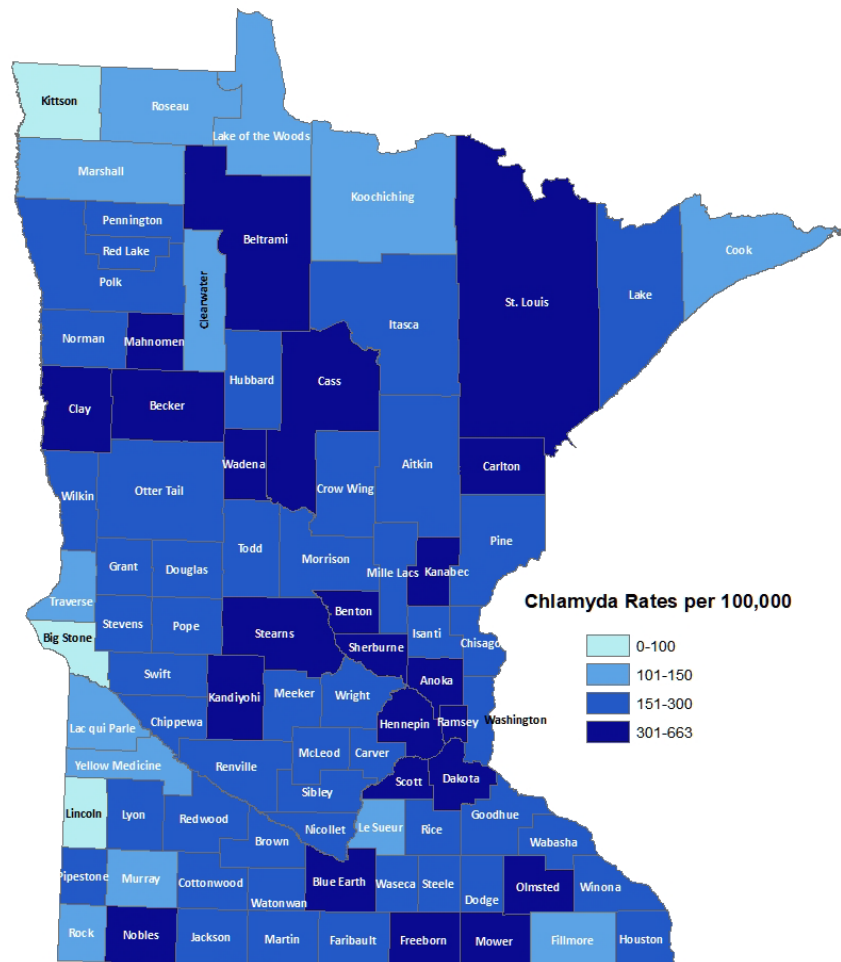
Gonorrhea Rates by Race/Ethnicity Minnesota, 2011-2021



Chlamydia

Minnesota Department of Health STD Surveillance System

2021 Minnesota Chlamydia Rates by County



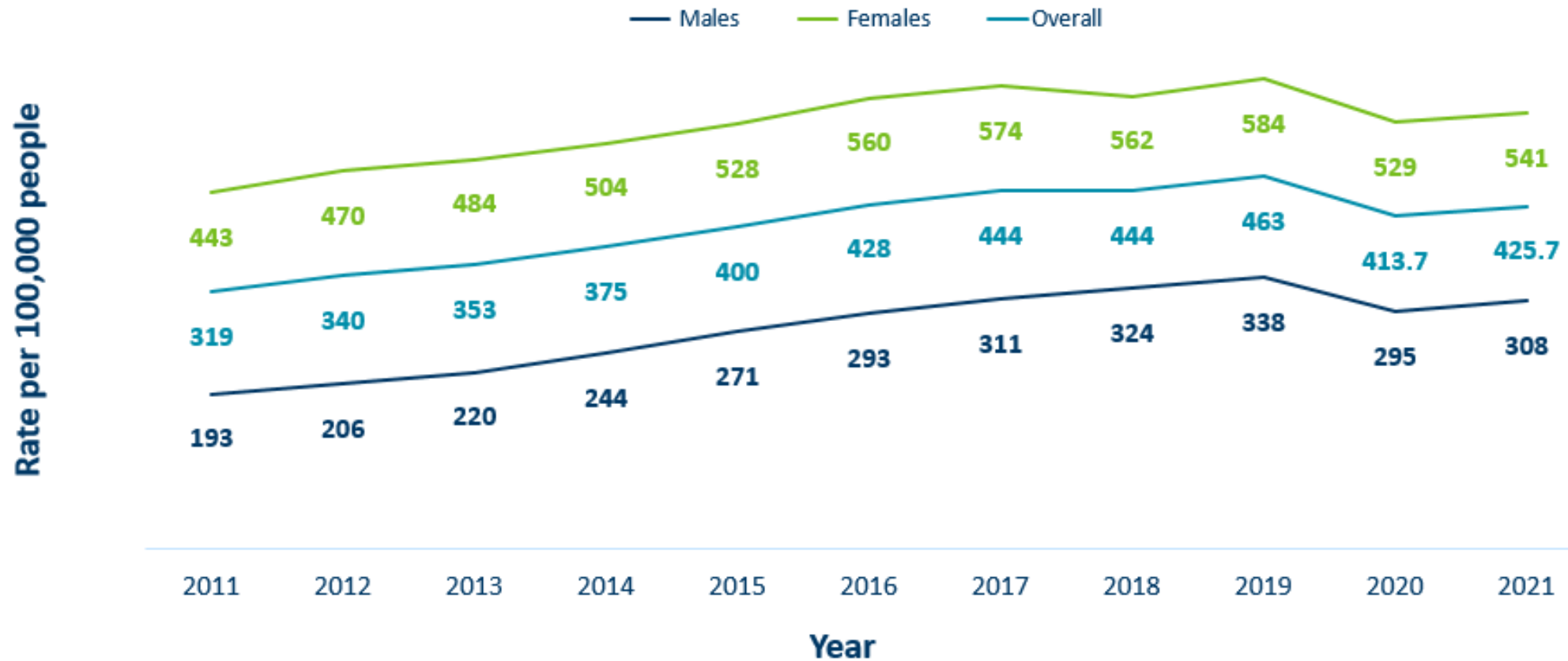
City of Minneapolis
City of St. Paul
Suburban*
Greater Minnesota
Total

1,206 per 100,000 (4,613 cases)
894 per 100,000 (2,548 cases)
348 per 100,000 (7,585 cases)
306 per 100,000 (7,519 cases)
425.7 per 100,000 (22,578 cases)
(315 cases missing residence information)

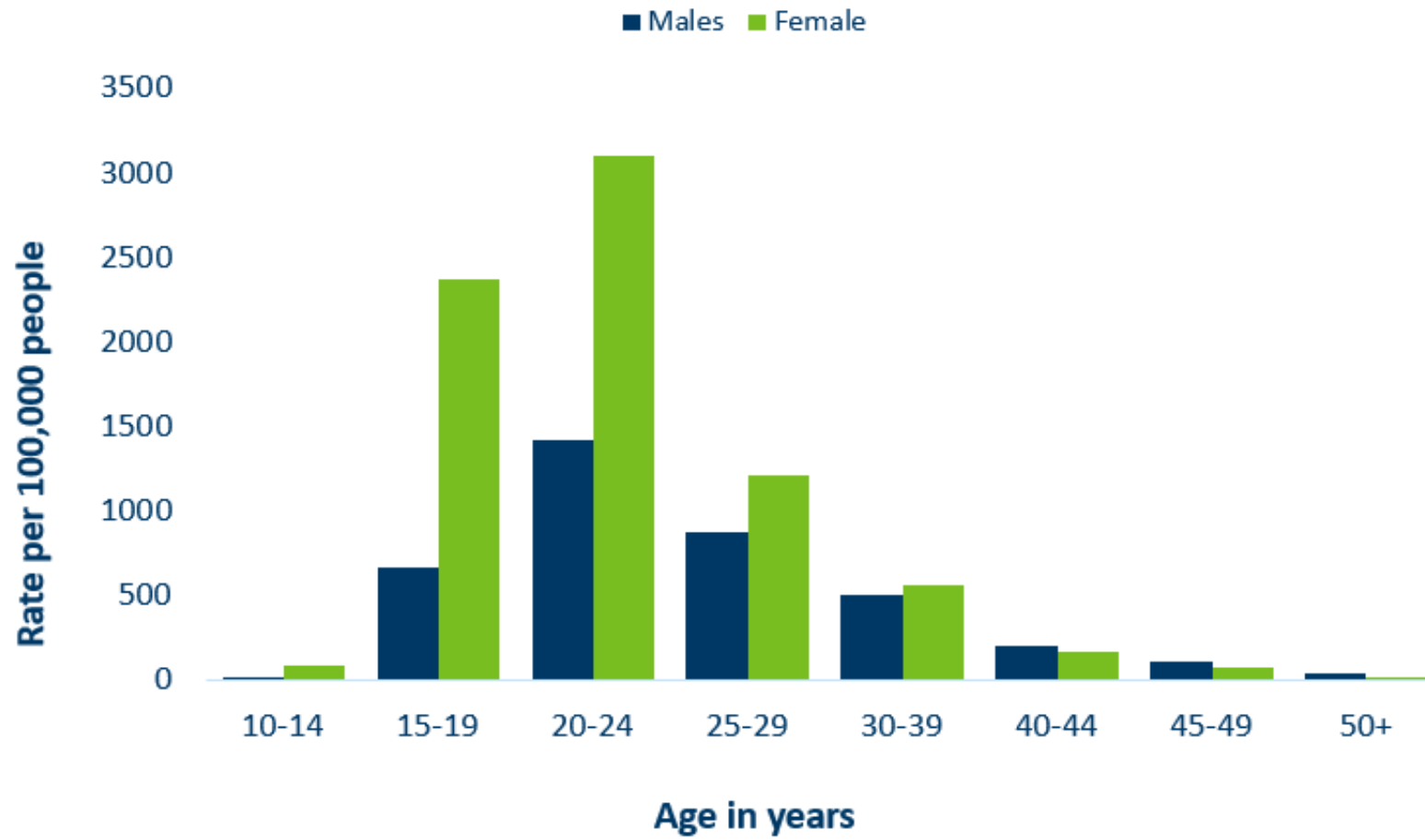
*7-county metro area, excluding the cities of Minneapolis and St. Paul

Chlamydia Rates by Gender

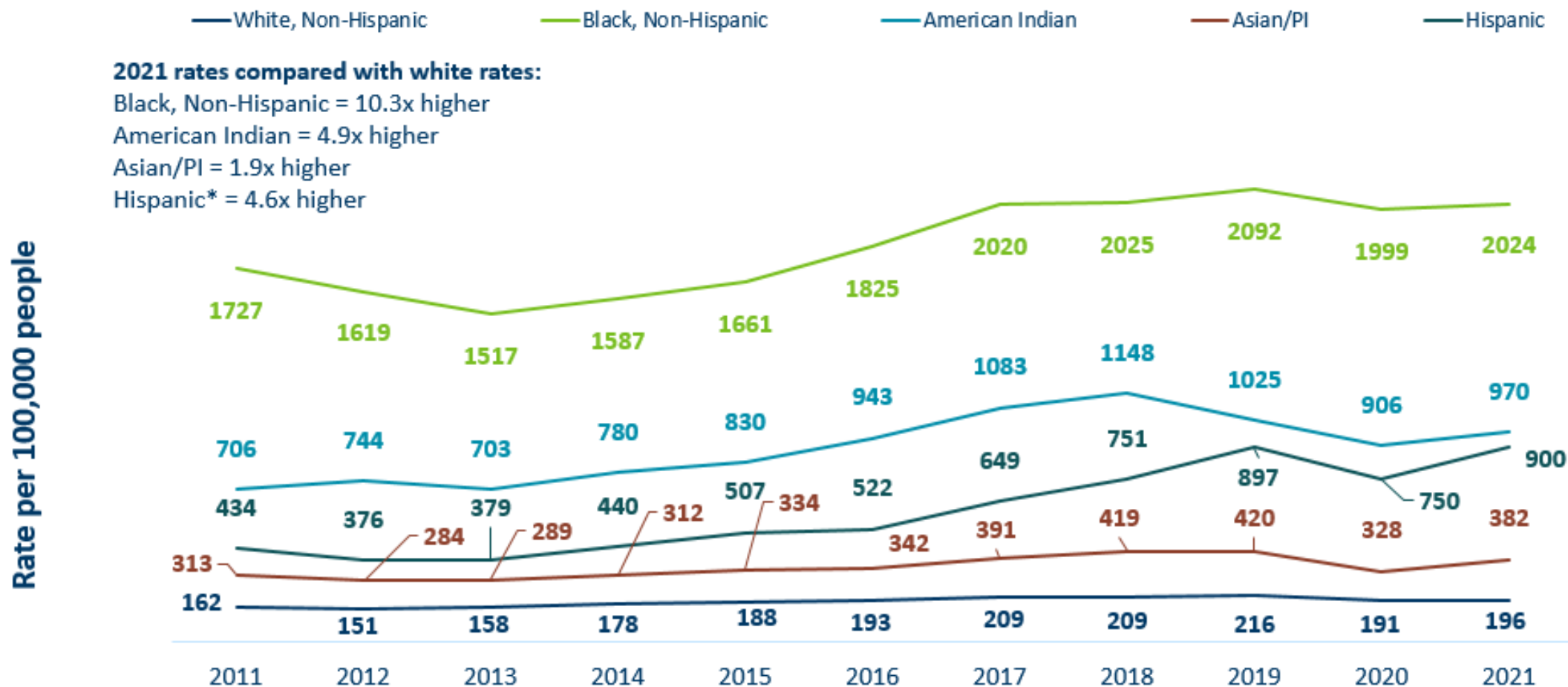
Minnesota, 2010-2020



Age-Specific Chlamydia Rates by Gender, Minnesota, 2021



Chlamydia Rates by Race/Ethnicity Minnesota, 2011-2021 (1/2)



* people of Hispanic ethnicity can be of any race

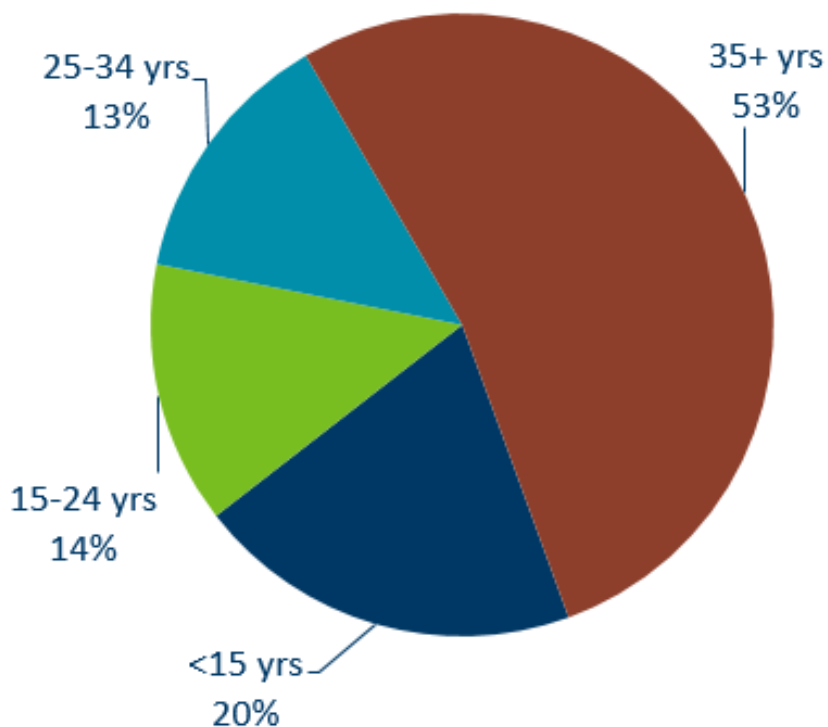
Chlamydia and Gonorrhea Among Adolescents and Young Adults (15-24 years of age)

Minnesota Department of Health STD Surveillance System

Chlamydia Disproportionately Impacts Youth and Young Adults

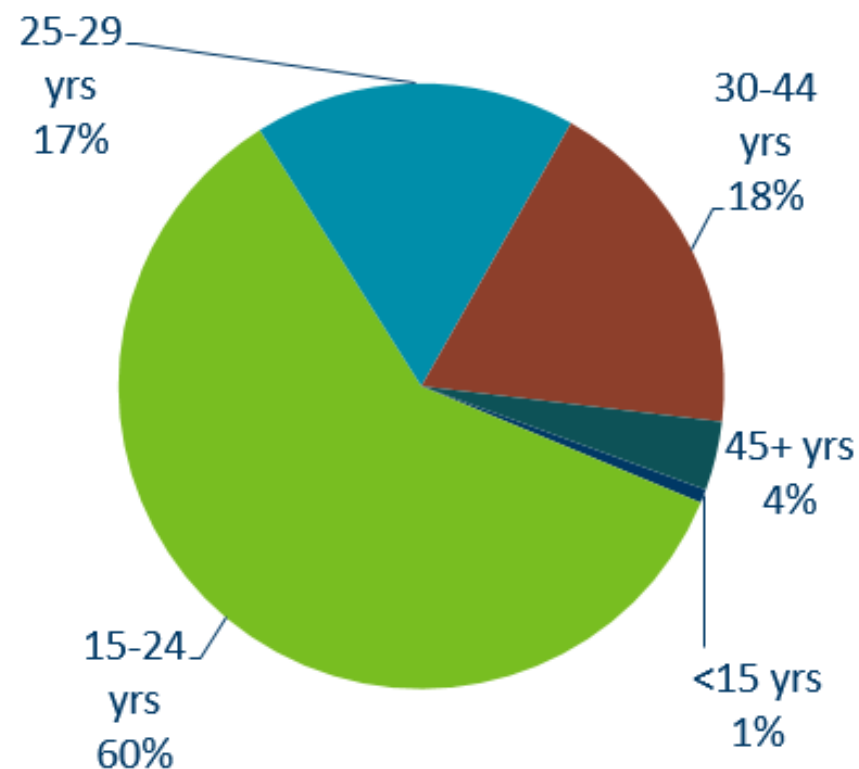
MN Population

(n = 5,303,925)



Chlamydia Cases in 2021

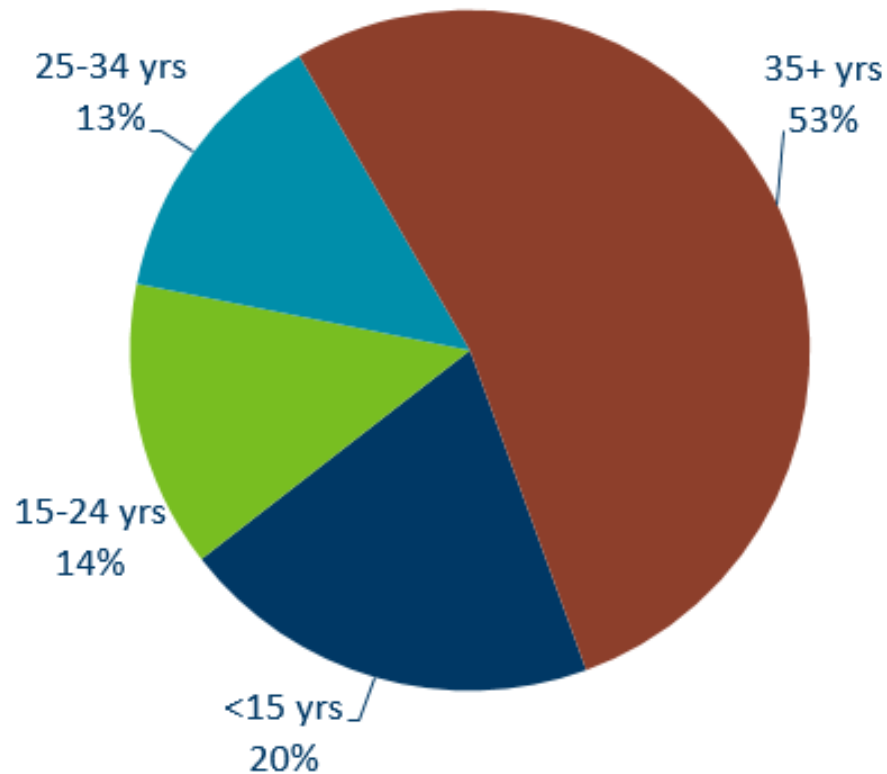
(n = 22,578)



Gonorrhea Disproportionately Impacts Youth and Young Adults

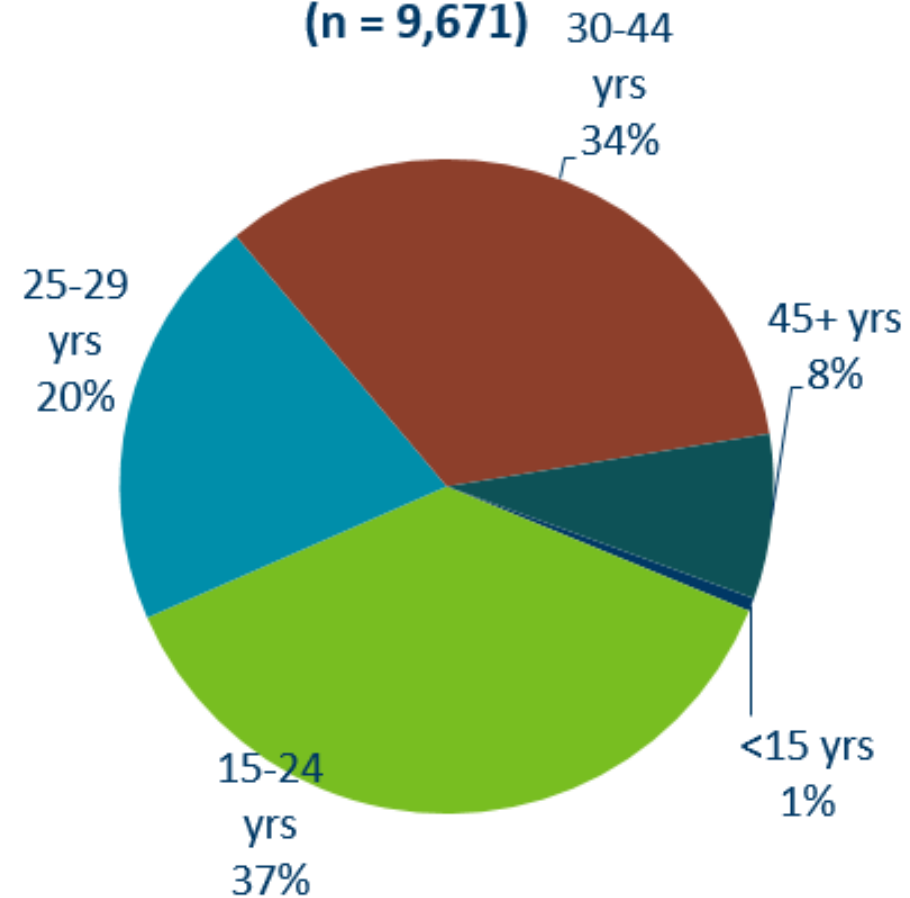
MN Population

(n = 5,303,925)

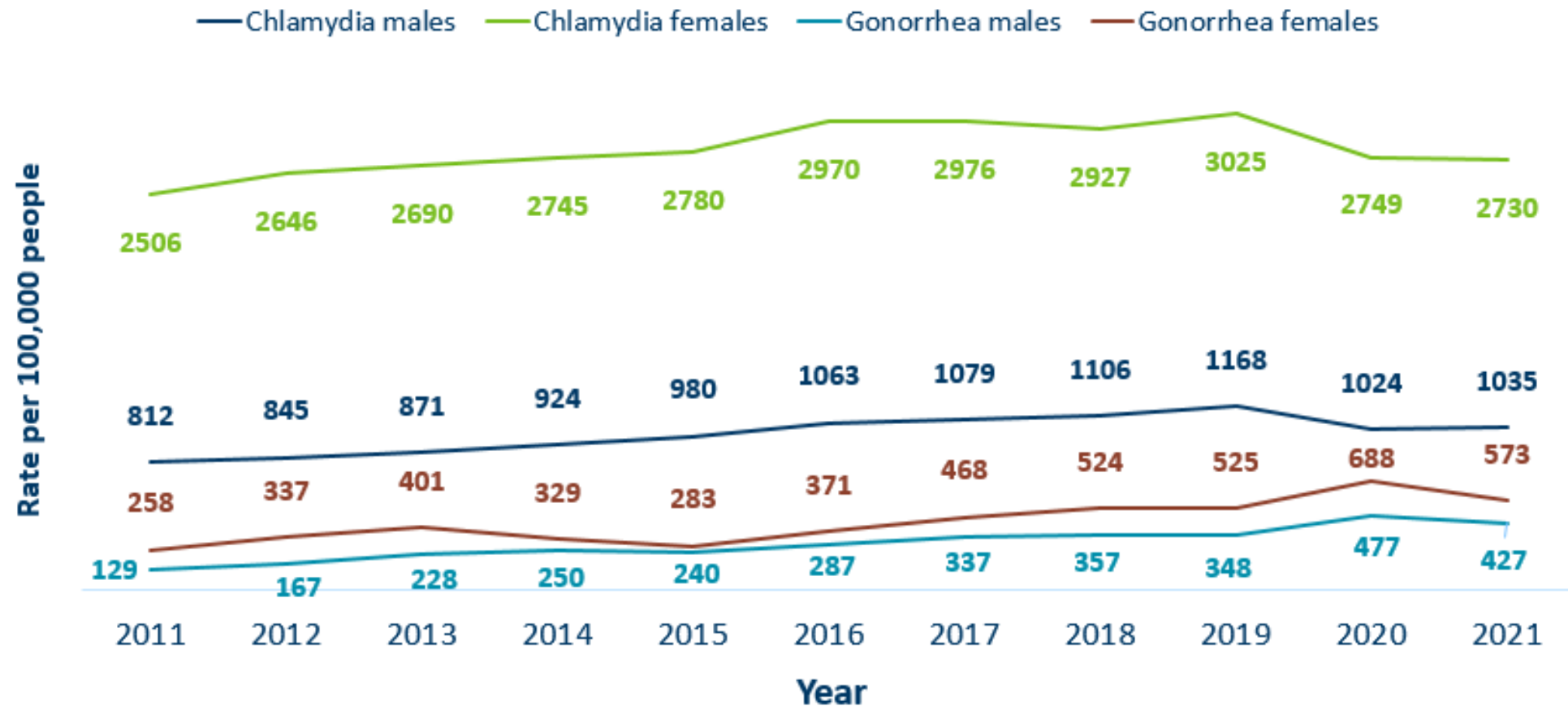


Gonorrhea Cases in 2021

(n = 9,671)



Chlamydia and Gonorrhea Rates Among Adolescents & Young Adults[†] by Gender in Minnesota, 2011-2021



Rate = Cases per 100,000 people based on 2010 U.S. Census counts.

[†] Adolescents defined as 15-19 year-olds; Young Adults defined as 20-24 year-olds.

Summary Characteristics of Adolescents & Young Adults[†] Diagnosed With Chlamydia or Gonorrhea in 2021

	Cases	% of Total
Male	5,399	32%
Female	11,695	68%
White, Non-Hispanic	6,267	36%
Black, Non-Hispanic	5,021	30%
Am Indian	452	3%
Asian/PI	563	3%
Hispanic	1,604	9%
Unknown/Other	3,187	19%
TOTAL	17,094	

[†] Adolescents defined as 15-19 year-olds; young adults defined as 20-24 year-olds, excludes 4 transgender + 22 missing/unknown



Summary of STD Trends in Minnesota

- From 2011-2021, the chlamydia rate increased by 34%. The rate of gonorrhea increased by 324%, syphilis has increased by 305%.
- Syphilis has resurged in MN over the past decade, with MSM and those co-infected with HIV being especially impacted. However, the number of females impacted is near the record high for the last decade.
- People of color continue to be disproportionately affected by all STDs in Minnesota. Disparities in the rates of STDs are not explained by differences in sexual behavior, but are due to differences in health insurance coverage, employment status and access to healthcare with preventative, screening, and treatment services.

Updates to STD Reporting and Current Follow-Up

- A new chlamydia and gonorrhea case report form is available on the MDH website, to accommodate changes in treatment guidelines and highlight DGI reporting.
- The case report form can be filled out and mailed or faxed to MDH at **651-201-4040**.
- More information may be requested on gonorrhea cases for Enhanced Gonorrhea Surveillance as part of the CDC PCHD grant.
- All cases co-infected with early syphilis will continue to be assigned to MDH Partner Services for follow-up.
- All STD cases continue to have the potential for being contacted by MDH for additional follow-up.

GONORRHEA (GC) - LAB CONFIRMED

Specimen collection date: / /

Source (mark all that apply):

☐ Cervix ☐ Rectum
☐ Vagina ☐ Pharynx
☐ Urethra ☐ Urine
☐ Other:

To report disseminated gonorrhea or concern over persistent infection call: 651-201-5414.

EPT Given?: ☐ Yes ☐ No

Treatment date: / /

☐ Ceftriaxone (Rocephin) 500 mg IM x 1 (For persons weighing <150 kg (300 lbs))* ☐ Not treated for gonorrhea
☐ Ceftriaxone (Rocephin) 1 g IM x 1 (For person weighing ≥150 kg (300 lbs))*

Alternative regimens:

☐ Cefixime (Suprax) 800 mg po x 1*
☐ Gentamicin 240 mg IM x 1 plus Azithromycin (Zithromax) 2 g po x 1
☐ Other:

*If chlamydial infection has not been excluded, providers should treat for chlamydia with doxycycline 100 mg orally twice daily for 7 days (Doxycycline 100 mg po BID x 7 days). During pregnancy, azithromycin 1 g as a single dose is recommended to treat chlamydia (Azithromycin (Zithromax) 1 g po x 1).