***Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences***

**Summary for Plymouth County, Massachusetts, 2022**

Plymouth County is a county in the Commonwealth of Massachusetts, established in 1685. Its county seats are Plymouth and Brockton. In 2020, the population was 530,819 (U.S. Census Bureau, 2020\*).

**Chlamydia**

Chlamydia is the most frequently reported sexually transmitted infection (STI) both in the Commonwealth and nationally.

**Since 2012, there has been an overall increase in reported chlamydia cases statewide except for 2020 due to COVID-19†, ranging from 23,930 cases in 2012 to 28,384 cases in 2022**. Plymouth County also experienced an overall increase in reported chlamydia cases, ranging from 1,517 cases in 2012 to 2,064 cases in 2022. In 2022, the county incidence rate of chlamydia infection was 388.8 per 100,000, while the statewide rate was 403.8 per 100,000. These can be compared to the national rate of 495.0 per 100,000.‡



Data are current as of 12/15/2023 and are subject to change.

Population denominators: Strate S, et al. Small Area Population Estimates for 2012 through 2020 report, Oct 2016.

Data source: Massachusetts Department of Public Health/Bureau of Infectious Disease and Laboratory Sciences/Division of STD Prevention.

**The county incidence rate among females remained higher** compared to males. In 2022, the incidence rate of chlamydia among females in Plymouth County was 485.3 per 100,000 while males had a rate of 286.3 per 100,000.

**The chlamydia statewide and county incidence rate is highest among young adults**. In 2022, the incidence rate of chlamydia was highest among 20-to-24-year-olds in Plymouth County (2,436.8 per 100,000).

**Gonorrhea**

Gonorrhea is the second most frequently reported STI both in the Commonwealth and nationally.

**Since 2012, there has been an overall increase of reported gonorrhea cases, ranging from 2,665 cases in 2012 to 9,129 cases in 2022**. Plymouth County also experienced an overall increase of reported gonorrhea cases, ranging from 186 in 2012 to 614 in 2022. In 2022, the county incidence rate of gonorrhea infection was 115.7 per 100,000, while the overall state rate was 129.9 per 100,000. These can be compared to the national rate of 194.4 per 100,000.‡

**The county incidence rate among males remained higher** compared to females. In 2022, males accounted for 60.7% of all gonorrhea cases in Plymouth County with a rate of 144.7 per 100,000 while females had a rate of 88.3 per 100,000.

Since 2015, the incidence rate of gonorrhea among males in Plymouth County has surpassed the overall statewide incidence rate, except in 2019 and 2021.



**The gonorrhea statewide and county incidence rate is highest among young adults**. In 2022, the number of cases and the incidence rate of gonorrhea in Plymouth County was highest among 20-to-24-year-olds (565.0 per 100,000).



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Population denominators: Strate S, et al. Small Area Population Estimates for 2012 through 2020 report, Oct 2016.

Data source: Massachusetts Department of Public Health/Bureau of Infectious Disease and Laboratory Sciences/Division of STD Prevention.

**Early Syphilis¶**

Early syphilis has been on the rise in the Commonwealth and nationally since the early 2000s.‡

**Since 2012, the statewide and county rates of reported syphilis have continued to increase.** In 2022, the county incidence rate of reported early syphilis infection was 14.5 per 100,000, while the statewide rate was 22.7 per 100,000. These can be compared to the national rate of 41.2 per100,000.‡

**The county early syphilis rate among males was much higher** compared to the rate among females. In 2022, males accounted for 81.8% of all early syphilis cases in Plymouth County with a rate of 24.4 per 100,000 while females had a rate of 5.1 per 100,000.



Data are current as of 12/15/2023 and are subject to change.

Population denominators: Strate S, et al. Small Area Population Estimates for 2012 through 2020 report, Oct 2016.

Data source: Massachusetts Department of Public Health/Bureau of Infectious Disease and Laboratory Sciences/Division of STD Prevention.

**In 2022, the highest incidence rate of early syphilis in Plymouth County was reported among 30-to-34-year-olds** (46.7 per 100,000).



Data are current as of 12/15/2023 and are subject to change.

Population denominators: Strate S, et al. Small Area Population Estimates for 2012 through 2020 report, Oct 2016.

Data source: Massachusetts Department of Public Health/Bureau of Infectious Disease and Laboratory Sciences/Division of STD Prevention.

**2022 Statewide Massachusetts**

Chlamydia cases have increased by 32% from 2012 to 2019 and decreased by 22% in 2020. From 2020 to 2022, there was a 15% increase in cases. This is possibly due to factors such as increased service utilization after health care clinics re-opened following the end of the COVID-19 public health emergency.

Gonorrhea cases have increased 243% from 2012 to 2022 and was reported primarily among males.

Early syphilis cases have increased 184% from 2012 to 2022. From 2017 to 2022, a range of 25% (in 2022) to 37% (in 2017) of early syphilis cases were co-infected with HIV. In 2020, 2021, and 2022 congenital syphilis cases numbered 10, 9, and 11, respectively, after remaining between 0 and 4 from 2011 to 2018.

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\*2020 population estimates were used to calculate 2022 disease rates throughout this report because 2022 population estimates had not been released at the time this report was published.

†Please note the impact of the COVID-19 pandemic on infectious disease screening, treatment, and surveillance in the interpretation of 2020 and 2022 data.

‡Source: CDC: Sexually Transmitted Disease Surveillance, 2022.

¶Early syphilis is defined as primary, secondary and early syphilis not diagnosed in the primary or secondary stages within one year of infection.