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

**Summary for Hampden County, Massachusetts, 2022**

Hampden County is a county in the Commonwealth of Massachusetts, founded in 1812. Hampden County is the most urban county in Western Massachusetts. In 2020, the population was 465,825 (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**. However, there has been an overall decrease for Hampden County, ranging from 2,880 cases in 2012 to 2,577 cases in 2022. In 2022, the county incidence rate of chlamydia infection was 553.2 per 100,000, while the overall state rate was 403.8 per 100,000.These can be compared to the national rate of 495.0 per 100,000.‡

Incidence rate of reported chlamydia cases per 100,000 population by sex, Hampden County, MA, 2012–2022.

Graph above depicts chlamydia rates (per 100,000) in MA and Hampden County by sex between 2012 and 2022. There are four lines: (1) MA rates begins at 358.5 and finishes at 403.8; (2) Hampden County rates begins at 615.5 and finishes at 553.2; (3) Hampden female rates begin at 827.1 and finishes at 714.6; (4) Hampden male rates begin at 385.4 and finish at 380.0.


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 was 714.6 per 100,000, twice that of males (380.0 per 100,000).

Since 2011, the incidence rate of Hampden County was consistently higher than the overall state incidence rate, though Hampden County has seen an overall decrease in chlamydia incidence rate from 2012 to 2022.

**The chlamydia statewide and county incidence rate is highest among young adults.** In 2022, the incidence rate of chlamydia in Hampden County was highest among 20-to-24-year-olds with a rate of 2,791.0 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**. In 2022, the county incidence rate of gonorrhea infection was 213.4 per 100,000, which surpassed the overall state rate of 129.9 per 100,000.These can be compared to the national rate of 194.4 per 100,000.‡

**Since 2013, the county incidence rate among males has been higher** than that of females. In 2022, males accounted for approximately 55% of all gonorrhea cases in Hampden County with a rate of 243.1 per 100,000 while females had a rate of 185.2 per 100,000.

Incidence rate of reported gonorrhea cases per 100,000 population by sex, Hampden County, MA, 2012–2022.

Graph above depicts gonorrhea rates (per 100,000) in MA and Hampden County by sex between 2012 and 2022. There are four lines: (1) MA rates begins at 39.9 and finishes at 129.9; (2) Hampden County rates begins at 46.4 and finishes at 213.4; (3) Hampden female rates begin at 50.3 and finishes at 185.2; (4) Hampden male rates begin at 41.7 and finish at 243.1.


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 gonorrhea statewide and county incidence rate is highest among young adults.** In 2022, the number

of cases and incidence rate in Hampden County was highest among 20-to-24-year-olds (790.5 per 100,000).

Incidence rate of reported gonorrhea cases per 100,000 population by sex and age, Statewide, MA, 2012, 2022.

This graph shows the highest gonorrhea rate among male in 2012 was in the 20–24-year-old age group, which shifted to the 35–39-year-old age group by 2022. Among females, the age group with the highest gonorrhea rate was 20–24 year-olds during 2012 and 2022. 


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.

**Early Syphilis¶**

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

**Since 2012, there has been an overall increase of reported early syphilis** **cases, ranging from 561 cases in 2012 to 1,593 cases in 2022.** Hampden County also experienced an increase of reported early syphilis cases, ranging from 98 in 2012 to 151 in 2022.

**Since 2012, the statewide and county rates of reported syphilis have continued to increase.** In 2022, the county incidence rate of early syphilis infection was 32.4 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 rate of early syphilis among males was much higher** compared to the rate among females. In 2022, males accounted for 68.9% of all early syphilis cases in Hampden County, with a rate of 46.2 per 100,000 while females had a rate of 19.5 per 100,000.

Incidence rate of early syphilis cases per 100,000 population by sex, Hampden County, MA, 2012–2022.

Graph above depicts syphilis rates (per 100,000) in MA and Hampden County by gender between 2012 and 2022. There are four lines: (1) MA rates begins at 8.4 and finishes at 22.7; (2) Hampden County rates begins at 20.9 and finishes at 32.4; (3) Hampden female rates begin at 6.2 and finishes at 19.5; (4) Hampden male rates begin at 36.8 and finish at 46.2.


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 Hampden County was reported among 30-to-34-year-olds** (94.1 per 100,000).

Incidence rate of reported early syphilis per 100,000 population by sex and age, Statewide, MA, 2012, 2022.

This graph shows the highest early syphilis rate among males in 2012 and 2022 was in the 30–34-year-old age group. The highest early syphilis among females in 2012 was in the 25–29-year-old age group, which shifted to the 35–39-year-old age group by 2022. 


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 reopened 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.