



Sexually Transmitted Infections in Wisconsin, 2021

Northeastern Region

Wisconsin Department of Health Services | Division of Public Health | STI Unit

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Wisconsin Sexually Transmitted Infections (STI) Surveillance Report

Northeastern Region – 2021

Despite the interruption of delivery of STI testing services due to the Covid – 19 pandemic, overall STI cases reported in Northeastern region increased 8.6% in 2021. The most significant change observed in 2021 was a **74% increase in Syphilis** cases reported. In 2021, gonorrhea cases increased by 11% and chlamydia cases increased by 7%.

Table 1.

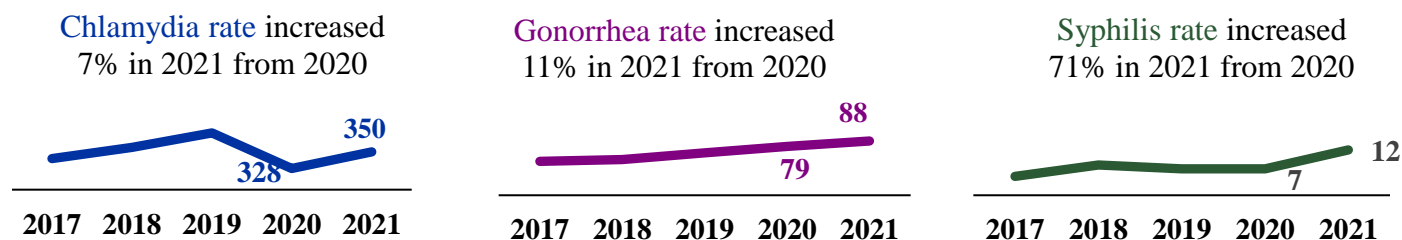
STIs in Northeastern region continue to rise.

Table 1. Number of Reported STI Cases and Rates (per 100,000 people) Northeastern Region, 2017-2021

Disease	2017		2018		2019		2020		2021	
	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates
Chlamydia	4,111	341	4,292	356	4,520	375	4,138	328	4,410	350
Gonorrhea	665	55	696	58	830	69	993	79	1,105	88
Syphilis	60	5	96	8	83	7	86	7	150	12

Figure 1.

Syphilis rate increased 140% since 2017



Key Points:



Sexually Transmitted Infections are widespread, impacting people of all races, ethnicities, gender, ages.



Rates of chlamydia, Gonorrhea, and syphilis increased in 2021. The syphilis has the highest (71%) increase among the three STIs.



The most vulnerable populations include men and women between ages 20-35.

Wisconsin Sexually Transmitted Infection (STI) Surveillance Report Reported Cases and Rates (per100,000 people) by Gender, Race, Ethnicity, and Age Northeastern Region - 2021

	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	4,410	100%	350	1,105	100%	88	150	100%	12	5,665	100.0%	450
Gender												
Male	1,350	30.6%	214	551	49.9%	87	103	68.2%	16	2,004	35.4%	318
Female	3,059	69.4%	486	553	50.0%	88	45	30.5%	7	3,657	64.6%	582
Transgender Female	0	0.0%	-	1	0.1%	-	2	1.3%	-	3	0.1%	-
Transgender Male	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	-
Unknown	1	0.0%	-	0	0.0%	-	0	0.0%	-	1	0.0%	-
Race/Ethnicity												
White	2,630	59.6%	239	514	46.5%	47	71	47.3%	6	3,215	56.8%	292
Black	608	13.8%	2,139	345	31.2%	1,214	25	16.7%	88	978	17.3%	3441
Native American	198	4.5%	897	50	4.5%	227	7	4.7%	32^	255	4.5%	1155
Asian	99	2.2%	262	17	1.5%	45	1	0.7%	*	117	2.1%	310
Hispanic	565	12.8%	794	117	10.6%	164	42	28.0%	59	724	12.8%	1017
Other/Unknown	310	7.0%	-	62	5.6%	-	4	2.7%	-	376	6.6%	-
Age												
0-4	1	0.0%	*	2	0.2%	*	2	1.3%	*	5	0.1%	7
5-9	0	0.0%	0	1	0.1%	*	0	0.0%	0	1	0.0%	1
10-14	33	0.7%	41	10	0.9%	13	0	0.0%	0	43	0.8%	54
15-19	1,031	23.4%	1,305	199	18.0%	252	10	6.7%	13^	1,240	21.9%	1570
20-24	1,647	37.3%	2,299	280	25.3%	391	22	14.7%	31	1,949	34.4%	2720
25-29	873	19.8%	1,133	216	19.5%	280	32	21.3%	42	1,121	19.8%	1455
30-34	429	9.7%	552	157	14.2%	202	33	22.0%	42	619	10.9%	797
35-39	196	4.4%	248	112	10.1%	142	11	7.3%	14^	319	5.6%	404
40-44	109	2.5%	148	57	5.2%	77	7	4.7%	10^	173	3.1%	235
45-49	50	1.1%	67	31	2.8%	42	14	9.3%	19	95	1.7%	128
50+	41	0.9%	8	40	3.6%	8	19	12.7%	4	100	1.8%	20

*Rates based on five case counts or less are not shown. ^Rate is unreliable due to a count <12.

Wisconsin Sexually Transmitted Infections (STI) Surveillance Report Reported Cases and Rates (per100,000 people) by County Northeastern Region - 2021

Region/County	Chlamydia			Gonorrhea			Syphilis			Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Northeastern												
Brown	1,293	29.3%	493	364	32.9%	139	40	26.7%	15	1,697	30.0%	647
Calumet	120	2.7%	231	21	1.9%	40	4	2.7%	*	145	2.6%	279
Door	59	1.3%	208	13	1.2%	46	1	0.7%	*	73	1.3%	257
Fond du lac	361	8.2%	347	100	9.0%	96	12	8.0%	12^	473	8.3%	455
Green Lake	35	0.8%	183	5	0.5%	*	2	1.3%	*	42	0.7%	219
Kewaunee	43	1.0%	208	8	0.7%	39^	2	1.3%	*	53	0.9%	256
Manitowoc	236	5.4%	292	41	3.7%	51	7	4.7%	9^	284	5.0%	352
Marinette	133	3.0%	324	13	1.2%	32	1	0.7%	*	147	2.6%	358
Marquette	18	0.4%	116	3	0.3%	*	0	0.0%	0	21	0.4%	136
Menominee	41	0.9%	941	5	0.5%	*	0	0.0%	0	46	0.8%	1,056
Oconto	84	1.9%	218	9	0.8%	23^	1	0.7%	*	94	1.7%	243
Outagamie	614	13.9%	328	159	14.4%	85	28	18.7%	15	801	14.1%	427
Shawano	107	2.4%	258	14	1.3%	34	0	0.0%	0	121	2.1%	292
Sheboygan	348	7.9%	300	107	9.7%	92	32	21.3%	28	487	8.6%	420
Waupaca	127	2.9%	245	17	1.5%	33	3	2.0%	*	147	2.6%	283
Waushara	40	0.9%	163	6	0.5%	25^	1	0.7%	*	47	0.8%	192
Winnebago	751	17.0%	439	220	19.9%	129	16	10.7%	9^	987	17.4%	577
Region total	4,410	100.0%	350	1,105	100.0%	88	150	100.0%	12	5,665	100.0%	450

*Rates based on five case counts or less are not shown. ^Rate is unreliable due to a count <12.

Wisconsin Syphilis Surveillance Report - Reported Cases and Rates (per 100,000 people) by Stage of Infection, Gender, Race, Ethnicity, and Age Northeastern Region- 2021

	Primary			Secondary			Early Latent			Early Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	34	100%	3	18	100%	1	27	100%	2	79	100%	6
Gender												
Male	16	88.9%	3	13	92.9%	2	17	89.5%	3	46	90.2%	2
Female	2	11.1%	*	1	7.1%	*	2	10.5%	*	5	9.8%	*
Transgender Female	0	0.0%	-	0	0.0%	-		0.0%	-	0	0.0%	-
Transgender Male	0	0.0%	-	0	0.0%	-		0.0%	-	0	0.0%	-
Race/Ethnicity												
White	11	61.1%	1^	11	78.6%	1^	11	57.9%	1^	33	64.7%	1
Black	3	16.7%	*	1	7.1%	*	3	15.8%	11	7	13.7%	4^
Native American	1	5.6%	*	1	7.1%	*	1	5.3%	*	3	5.9%	*
Asian	1	5.6%	*	0	0.0%	*	1	5.3%	*	2	3.9%	*
Hispanic	2	11.1%	*	1	7.1%	*	3	15.8%	*	6	11.8%	9^
Age												
0-4	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
5-9	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
10-14	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
15-19	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
20-24	6	33.3%	8^	2	14.3%	*	5	26.3%	*	13	25.5%	18
25-29	5	27.8%	*	5	35.7%	*	4	21.1%	*	14	27.5%	18
30-34	2	11.1%	*	2	14.3%	*	3	15.8%	*	7	13.7%	9^
35-39	2	11.1%	*	2	14.3%	*	0	0.0%	0	4	7.8%	*
40-44	1	5.6%	*	0	0.0%	0	4	21.1%	*	5	9.8%	*
45-49	0	0.0%	0	1	7.1%	*	1	5.3%	*	2	3.9%	*
50+	2	11.1%	*	2	14.3%	*	2	10.5%	*	6	11.8%	1^

*Rates based on five case counts or less are not shown. ^Rate is unreliable due to a count <12.

Wisconsin Syphilis Surveillance Report - Reported Cases and Rates (per 100,000 people) by Stage of Infection, Gender, Race, Ethnicity, and Age Northeastern Region - 2021

	Early Total			Late Latent			Congenital			All Stage Total		
	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates	Cases	Percent	Rates
Total	79	100%	6	69	100%	5	2	100.0%	0	150	100%	12
Gender												
Male	58	73.4%	9	45	65.2%	7	0	0.0%	0	103	68.7%	16
Female	20	25.3%	3	23	33.3%	4	2	100.0%	0	45	30.0%	7
Transgender Female	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	0
Transgender Male	1	1.3%	-	1	1.4%	-	0	0.0%	-	2	1.3%	*
Race/Ethnicity												
White	37	46.8%	3	33	47.8%	3	1	50.0%	*	71	47.3%	6
Black	18	22.8%	63	7	10.1%	25	0	0.0%	0	25	16.7%	88
Native American	2	2.5%	*	5	7.2%	*	0	0.0%	0	7	4.7%	32 [^]
Asian	0	0.0%	0	1	1.4%	*	0	0.0%	0	1	0.7%	*
Hispanic	19	24.1%	27	22	31.9%	31	1	50.0%	*	42	28.0%	59
Unknown	3	3.8%	-	1	1.4%	-	0	0.0%	-	4	2.7%	-
Age												
0-4	0	0.0%	0	0	0.0%	0	2	100.0%	3	2	1.3%	3 [^]
5-9	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0
10-14	7	8.9%	9 [^]	0	0.0%	0	0	0.0%	0	7	4.7%	9 [^]
15-19	13	16.5%	18	3	4.3%	*	0	0.0%	0	16	10.7%	20
20-24	18	22.8%	23	9	13.0%	13 [^]	0	0.0%	0	27	18.0%	38
25-29	17	21.5%	22	14	20.3%	18	0	0.0%	0	31	20.7%	40
30-34	5	6.3%	*	16	23.2%	21	0	0.0%	0	21	14.0%	27
35-39	4	5.1%	*	6	8.7%	8 [^]	0	0.0%	0	10	6.7%	13 [^]
40-44	6	7.6%	8 [^]	3	4.3%	*	0	0.0%	0	9	6.0%	12 [^]
45-49	9	11.4%	2 [^]	8	11.6%	11 [^]	0	0.0%	0	17	11.3%	23
50+	0	0.0%	0	10	14.5%	2 [^]	0	0.0%	0	10	6.7%	2 [^]

*Rates based on five case counts or less are not shown. [^]Rate is unreliable due to a count <12.

Technical Notes

1. This report is compiled by the Wisconsin STI Unit and are based on STI case surveillance data collected by the Wisconsin Division of Public Health (DPH). In Wisconsin, state statutes require both laboratories and health care providers to report cases of chlamydia, gonorrhea, syphilis, chancroid, and pelvic inflammatory disease to local health departments. STI case surveillance data is automatically sent to the Wisconsin STI Unit via WEDSS (Wisconsin Electronic Disease Surveillance System).
2. This report includes cases diagnosed within the specified period. Additional cases diagnosed within the specified period may continue to be reported. Thus, this report should be considered provisional, and it supersedes all previous reports.
3. Reporting of STI cases can be incomplete. Reporting rates can be varied by disease, geographic region, and demographic groups. At any time, reported STI cases represent only part of the total number of diagnosed cases, therefore STI surveillance data likely underestimates total STI morbidity.
4. Rate is calculated based on the population data available on WISH (Wisconsin Interactive Statistics on Health) system website. In these reports, rates presented are cases per 100,000 population (2020). Rates are not calculated for categories with small numbers of cases. See each report for the rate calculation threshold.
5. In this report, cases are allocated to the derived county at the time of diagnosis. Cases from federal, state, or certain private institutions are not included in the regional report but is included in the statewide report and geographic region for these cases are assigned as institution.
6. Cases residing outside Wisconsin are not included in this report.
7. All races are non-Hispanic ethnicity. Under the category race, Asian includes Asian Pacific Islander and American Indian Alaska Native is named as Native American.
8. Rates based on five case counts or less are not shown and rates based on case counts less than 12 are marked as statistically unreliable.

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