

New Hampshire Infectious Disease Surveillance Section STI/HIV Data Summary Report 2018-2022



Data Notes:

All data in this report are based upon information provided to the New Hampshire Department of Health and Human Services under specific legislative authority. The numbers may represent an underestimate of the true absolute number and incidence rate of cases in the state. Any release of personal identifying information is conditioned upon such information remaining confidential. The unauthorized disclosure of any confidential medical or scientific data is a misdemeanor under New Hampshire law. The department is not responsible for any duplication or misrepresentation of surveillance data released in accordance with this guideline. Population data used in this report come from the most recently available U.S. Census Bureau population estimates. Sexually transmitted infection (STI) data in this report are complete as of January 4, 2024. HIV/AIDS data in this report are complete as of January 5, 2024.

- 1: Case rate per 100,000 persons. Case rates calculated for events <20 are considered statistically unreliable and should be interpreted with caution. The Infectious Disease Surveillance Section restricts the release of calculated rate data to cell sizes ≥5 cases.
- 2. 2022 census data was not available at the time this report was compiled. 2022 rate estimates were thus computed using 2021 census data. This report will be updated once full 2022 census data becomes available.
- 3: Black/African American race category includes Black persons, African American persons, and persons of African descent. Other/Unknown race category includes multi-racial. For HIV/AIDS data, Other/Unknown race category also includes persons of Hispanic ethnicity and those reporting multiple races.
- 4: Hispanic ethnicity may be of any race.
- 5: NC= Not Calculated. As most STI cases have an unknown HIV status, data regarding HIV co-infection is considered incomplete. Rates are not presented due to incomplete data.
- 6: PLWHA= People living with HIV/AIDS.
- 7: County and city data is based upon residence at time of disease diagnosis.
- 8: Infectious syphilis includes cases diagnosed during the primary, secondary, and early non-primary non-secondary stages of syphilis infection in accordance with the CDC case definition. It excludes congenital syphilis and cases of unknown duration or diagnosed during late stage infection. All stages syphilis includes cases diagnosed during the primary, secondary, early non-primary non-secondary, and late/unknown duration stages of syphilis infection in accordance with the CDC case definition. It excludes congenital syphilis.
- 9: MSM= Male-to-male sexual contact. IDU= Injection drug use. Perinatal= Mother with or at risk for HIV. NRR= No reported risk. NIR= No identified risk. Heterosexual Contact= Specific heterosexual contact with a person known either to have or to be at high risk for HIV infection.
- 10: Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis.
- 11: Indicates a new diagnosis of AIDS in the specified year, regardless of when diagnosed with HIV.
- 12: Concurrent diagnosis is defined as diagnosis of AIDS within 12 months of an initial HIV diagnosis.

Data sources: Patient Reporting Investigating Surveillance Manager (PRISM), enhanced HIV AIDS Reporting System (eHARS), and Environmental Systems Research Institute (ESRI) ArcMap.

Report Contributors

Data Prepared by Hannah Bowen, MPH HIV/STI/VH Surveillance Program Mananger NH DHHS

Division of Public Health Services Bureau of Infectious Disease Control

29 Hazen Drive

Concord, NH 03301-6504

Email: hannah.w.bowen@dhhs.nh.gov

GIS Maps Provided by Tylor Young GIS Senior Management Analyst

NH DHHS

Division of Public Health Services

Bureau of Infectious Disease Control

29 Hazen Drive

Concord, NH 03301-6504

Email: tylor.young@dhhs.nh.gov

Context: COVID-19 Pandemic

1. The impact of pandemic-driven changes in patterns of healthcare access and seeking, sexual and other behavior, and disease reporting is not fully understood. Thus, 2020 and 2021 data must be interpreted with caution and may not be comparable to prior years.

Chlamydia

- 1. Chlamydia case counts remain substantially lower than pre-pandemic counts.
- 2. Persons under age 30 and persons assigned female sex at birth bore the highest burden of disease in 2022, while Black and African American persons remained the population most disproportionately affected.
- 3. Rates of disease in 2022 were in highest in Hillborough, Strafford, and Grafton Counties, while rates in Carroll and Cheshire Counties declined.

Gonorrhea

- 1. The 2022 case count represented the highest number of gonorrhea cases reported by NH in a single year. This followed a statewide decrease in 2019-2020, and surpassed the previous high set in 2021.
- 2. Persons aged 20-35 years and men of any age are most commonly diagnosed, while Black and African American persons remained the population most disproportionately affected.
- 3. Hillsborough County, especially City of Manchester, bore the highest burden of disease in 2022 as well as historically.

Infectious Syphilis⁸ (Primary, Secondary, and Early Non-Primary Non-Secondary)

- 1. The 2021 case count represented the highest number of infectious syphilis cases reported by NH in a single year. This followed a statewide decrease in 2019-2020. Additionally, the 175 cases reported by NH in 2022 represented the highest number of all-stages syphilis cases in a single year.
- 2. Gay and bisexual men and other men who reported male sex partners remain the populations most affected. However, the proportion of cases reporting opposite sex partners has increased compared to 2018 and earlier.
- 3. NH reported 1 case of congenital syphilis in 2018, 2 cases in 2019, and 3 cases in 2022. Any case of congenital syphilis indicates missed opportunities for prevention, testing, and treatment. Zero cases of congential syphilis were reported in NH in 2020 and 2021.

Human Immunodeficiency Virus Infection (HIV)

- 1. The number of persons per year newly diagnosed with HIV in NH remains relatively stable.
- 2. Gay and bisexual men and other men who reported male sex partners remain the population most affected.
- 3. Rates of disease remain highest in Hillsborough County, especially City of Manchester.

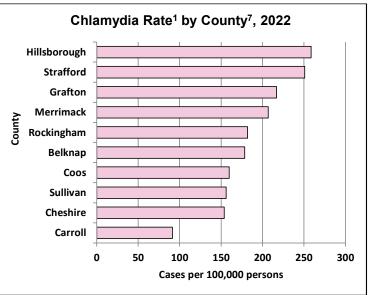
Acquired Immunodeficiency Syndrome (AIDS)

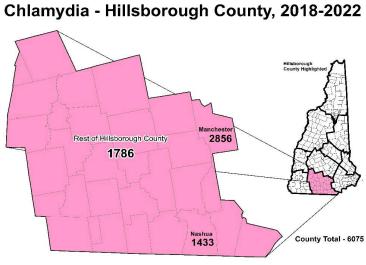
- 1. The number of persons per year newly diagnosed with AIDS in NH decreased in 2019-2020 compared to prior years, but returned to baseline in 2021 before decreasing again in 2022.
- 2. From 2018-2022, 26% of persons newly diagnosed with HIV received an concurrent diagnosis of AIDS (i.e., AIDS diagnosis within 12 months of initial HIV diagnosis). Concurrent diagnosis indicates missed opportunities for prevention, testing, and treatment.

Resources

- 1. CDC/NCHHSTP Atlas: http://gis.cdc.gov/GRASP/NCHHSTPAtlas/main.html
- 2. CDC HIV Surveillance: http://www.cdc.gov/hiv/default.html
- 3. NH DPHS, STD/HIV Publications: http://www.dhhs.nh.gov/dphs/bchs/std/publications.htm

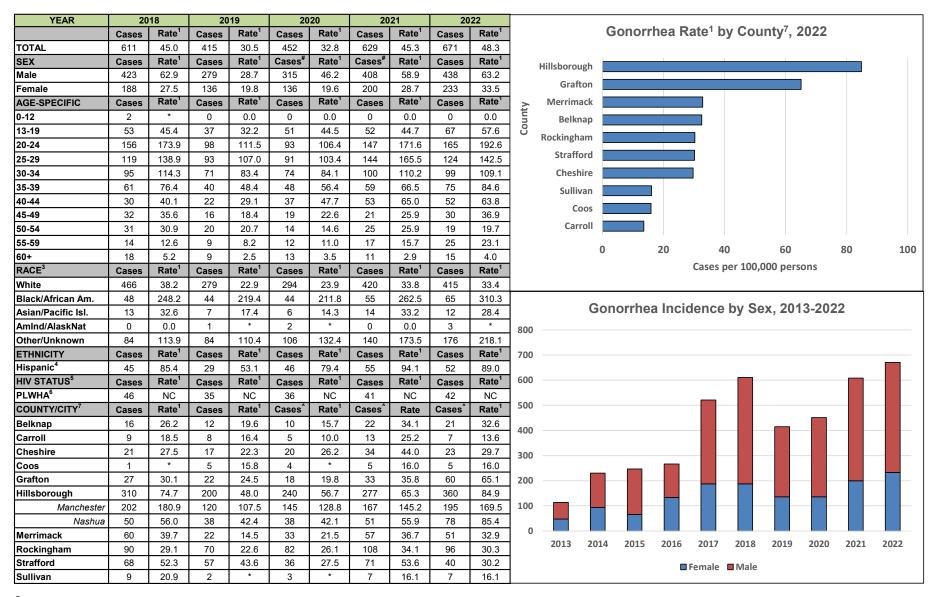
YEAR	2018		2019		20	20	2021		2022	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	3640	268.3	3634	267.3	2894	210.1	3088	222.3	2925	210.6
SEX	Cases#	Rate ¹	Cases#	Rate ¹	Cases#	Rate ¹	Cases#	Rate ¹	Cases#	Rate ¹
Male	1238	184.2	1324	136.0	1011	148.1	1080	155.8	1026	148.0
Female	2401	350.9	2309	336.6	1870	269.1	1980	284.5	1876	269.6
AGE-SPECIFIC	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
0-12	1	*	0	0.0	6	3.4	2	*	0	0.0
13-19	842	721.8	871	757.1	620	540.7	637	547.3	686	589.4
20-24	1583	1764.6	1488	1693.6	1211	1386.0	1279	1493.3	1148	1340.4
25-29	663	773.8	654	752.7	546	620.7	584	671.2	505	580.4
30-34	273	328.4	283	332.5	248	281.8	275	303.2	267	294.4
35-39	129	161.5	183	221.5	128	150.5	150	169.1	133	150.0
40-44	61	81.4	60	79.3	63	81.2	67	82.2	73	89.6
45-49	34	37.8	44	50.5	35	41.6	32	39.4	45	55.4
50-54	34	33.9	26	26.9	15	15.7	29	30.0	30	31.1
55-59	15	13.5	17	15.5	13	11.9	17	15.7	27	25.0
60+	5	1.4	8	2.2	9	2.4	16	4.3	11	2.9
RACE ³	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	2442	200.1	2427	198.9	1710	138.8	1793	144.3	1648	132.7
Black/African Am.	184	951.6	200	997.3	135	649.8	169	806.7	164	782.8
Asian/Pacific Isl.	50	125.5	73	181.6	35	83.6	38	90.0	36	85.3
AmInd/AlaskNat	8	275.2	7	239.4	10	340.9	2	*	6	202.8
Other/Unknown	956	1296.1	927	1218.2	1003	1253.2	1086	1345.7	1071	1327.1
ETHNICITY	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Hispanic⁴	214	406.2	218	399.3	189	326.0	229	391.8	168	287.4
HIV STATUS ⁵	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
PLWHA ⁶	29	NC	36	NC	30	NC	23	NC	27	NC
COUNTY/CITY ⁷	Cases	Rate ¹	Cases [^]	Rate ¹	Cases [^]	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Belknap	139	227.8	113	184.3	102	160.1	116	180.0	115	178.4
Carroll	76	155.8	79	161.5	67	133.7	57	110.7	47	91.3
Cheshire	180	235.3	225	295.7	132	172.6	175	226.3	119	153.9
Coos	103	326.1	69	218.6	56	179.1	28	89.5	50	159.8
Grafton	229	255.1	239	265.9	169	185.5	159	172.4	200	216.9
Hillsborough	1332	320.8	1336	320.4	1117	264.1	1194	281.6	1096	258.4
Manchester	642	574.8	620	555.2	517	459.3	571	496.5	506	439.9
Nashua	296	331.2	310	345.8	276	305.5	286	313.3	265	290.3
Merrimack	339	224.3	330	218.0	302	196.3	311	200.3	321	206.8
Rockingham	675	218.3	666	215.0	531	169.0	586	184.9	577	182.0
Strafford	486	373.6	471	360.6	364	278.1	378	285.5	332	250.7
Sullivan	81	187.7	104	241.0	53	123.1	84	193.0	68	156.2





 $^{^{\#}}$ Cases excluded due to unknown sex assigned at birth in in 2018 (1), 2019 (1), 2020 (13), 2021 (28), and 2022 (23)

[^]Cases excluded due to unknown county in 2019 (2), and 2020 (1)



^{*}Cases excluded due to unknown sex assigned at birth in 2020 (1) and 2021 (1).

[^]Cases excluded due to unknown county in 2020 (1), 2021 (2), and 2022 (1).



[^]Cases excluded due to unknown county in 2020 (1) and 2022 (1)

YEAR	20	18	20	19	20	20	20	21	20	22	
	Cases	Rate ¹	HIV Incidence by Identified or								
TOTAL ¹⁰	38	2.8	31	2.3	31	2.3	32	2.3	27	1.9	Paparted Dick ⁹ 2019 2022
SEX	Cases	Rate ¹									
Male	30	4.5	27	2.8	28	4.1	27	3.9	22	3.2	Heterosexual
Female	8	1.2	4	*	3	*	5	0.7	5	0.7	Contact, 9%
AGE-SPECIFIC	Cases	Rate ¹	NIR/NRR 21%								
0-12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
13-19	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
20-24	3	*	1	*	6	6.9	1	*	4	*	
25-29	7	8.2	12	13.8	6	6.8	8	9.2	6	6.9	IDU, 10%
30-34	7	8.4	6	7.1	8	9.1	6	6.6	8	8.8	
35-39	2	*	3	*	2	*	4	*	2	*	
40-44	7	9.3	0	0.0	0	0.0	3	*	3	*	MSM & IDU, 8% MSM, 52%
45-49	7	7.8	1	*	3	*	1	*	1	*	WiSiVI, 52%
50-54	3	*	1	*	2	*	1	*	0	0.0	
55-59	1	*	6	5.5	3	*	4	*	0	0.0	
60+	1	*	1	*	1	*	4	*	3	*	
RACE ³	Cases	Rate ¹	all LIIV In a identical by Identified on Deported Diele								
White	30	2.5	17	1.4	24	1.9	25	2.0	14	1.1	HIV Incidence by Identified or Reported Risk ⁹
Black/African Am.	3	*	4	*	1	*	3	*	6	28.6	Including Injection Drug Use (IDU), 2018-2022
Asian/Pacific Isl.	1	*	4	*	3	*	1	*	3	*	100%
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	1	*	90%
Other/Unknown	4	*	6	7.9	3	*	3	*	3	*	1 80%
ETHNICITY	Cases	Rate ¹									
Hispanic⁴	3	*	5	9.2	3	*	2	*	3	*	70%
COUNTY/CITY ⁷	Cases	Rate ¹	e ¹ 60%								
Belknap	1	*	0	0.0	0	0.0	0	0.0	0	0.0	50%
Carroll	1	*	0	0.0	2	*	2	*	0	0.0	
Cheshire	0	0.0	0	0.0	1	*	2	*	2	*	
Coos	0	0.0	2	*	2	*	0	0.0	1	*	30%
Grafton	0	0.0	4	*	3	*	2	*	1	*	20%
Hillsborough	26	6.3	12	2.9	12	2.8	11	2.6	14	3.3	10%
Manchester	18	16.1	5	4.5	4	*	6	5.2	10	8.7	00/
Nashua	4	*	5	5.6	4	*	2	*	3	*	2018 2019 2020 2021 2022
Merrimack	4	*	2	*	2	*	5	3.2	2	*	
Rockingham	3	*	6	1.9	6	1.9	3	*	6	1.9	☐ Identified Risk Includes IDU
Strafford	3	*	1	*	2	*	7	5.3	1	*	
Sullivan	0	0.0	4	*	1	*	0	0.0	0	0.0	■ No Identified Risk/No Risk Reported

