



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2014-2018



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. Historical data in this report may differ from previously released data due to ongoing quality assurance activities and receipt of new surveillance information. Data in this report are complete as of May 10, 2019.

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: Other/Unknown race category includes multi-racial.

3: Hispanic ethnicity may be of any race.

4: NC= Not Calculated. As most STD cases have an unknown HIV status, data regarding HIV co-infection is considered incomplete. Rates are not presented due to incomplete data.

5: PLWHA= People living with HIV/AIDS.

6: County and city data is based upon residence at time of disease diagnosis.

7: 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.

8: 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.

9: Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis.

10: Indicates a new diagnosis of AIDS in the specified year, regardless of when diagnosed with HIV.

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/STD/Viral Hepatitis Program Manager
NH DHHS
Division of Public Health Services
Bureau of Infectious Disease Control
29 Hazen Drive
Concord, NH 03301-6504
Email: hannah.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

New Hampshire STD/HIV Surveillance Program

5 Year Data Summary Report

Highlights, 2014 - 2018

Chlamydia

1. Chlamydia case counts have remained relatively stable while gonorrhea and syphilis counts have continued to increase.
2. Persons under age 30 and females of any age represent the populations most affected.
3. Highest rates of disease have historically been found in southern NH, but increased rates were more widely dispersed in 2018.

Gonorrhea

1. An increase in overall case count was observed beginning in 2014, with outbreak status declared in 2016. Case counts continue to increase.
2. Gonorrhea is most commonly diagnosed in persons 20-39 years old and men of any age. Hillsborough County, specifically City of Manchester, bears the highest burden of disease.
3. Thirty-six percent of reported cases of gonorrhea in 2018 were diagnosed at Emergency Departments or Urgent Care Facilities.

Infectious Syphilis⁷ (Primary, Secondary, and Early Non-Primary Non-Secondary)

1. Case counts were stable between 2012 and 2015, with an increase observed beginning in 2016 and outbreak status declared in 2017.
2. Gay and bisexual men and other men who reported male sex partners, as well as men living with HIV, are disproportionately affected by infectious syphilis.
3. NH reported 1 case of congenital syphilis in 2018. This was the first congenital syphilis case reported in NH since 2013.

Human Immunodeficiency Virus Infection (HIV)

1. The number of persons per year newly diagnosed with HIV in NH remains relatively stable.
2. Increases were noted in 2017-2018 in the proportion of new cases reporting any injection drug use as well the proportion reporting injection drug use as their primary identified risk.
3. Gay and bisexual men and other men who reported male sex partners remain the population most affected by HIV.

Acquired Immunodeficiency Syndrome (AIDS)

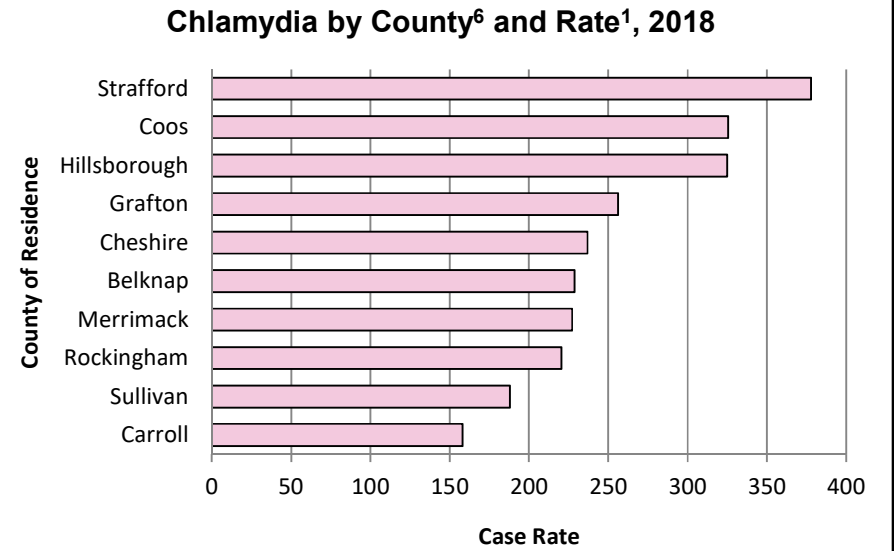
1. The number of persons per year newly diagnosed with AIDS in NH remains relatively stable.
2. From 2014-2018, 25% of persons newly diagnosed with HIV were concurrently diagnosed with AIDS (that is, received an AIDS diagnosis within 12 months of their HIV diagnosis). Concurrent diagnosis indicates missed opportunities for prevention, testing, and treatment.

Resources

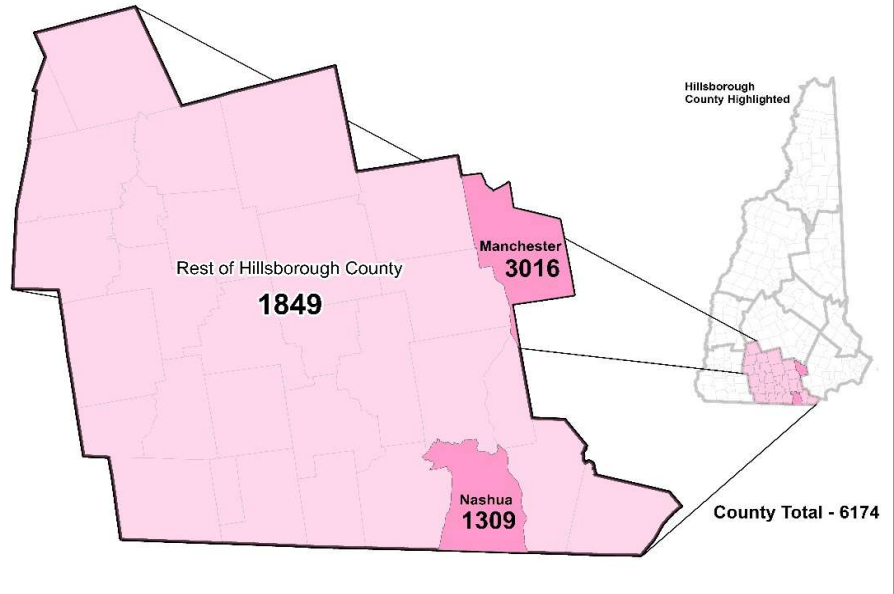
1. CDC/NCHHSTP Atlas: <http://gis.cdc.gov/GRASP/NCHHSTPAtlas/main.html>
2. CDC HIV Surveillance: <http://www.cdc.gov/hiv/default.html>
3. NH DPHS, STD/HIV Publications: <http://www.dhhs.nh.gov/dphs/bchs/std/publications.htm>

New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report: Chlamydia
 2014-2018

YEAR	2014		2015		2016		2017		2018	
	Cases	Rate ¹	Cases	Rate ¹	Cases [#]	Rate ¹	Cases [#]	Rate ¹	Cases [#]	Rate ¹
TOTAL	2316	174.3	3683	276.9	4048	303.2	3689	274.7	3639	271.0
SEX	Cases	Rate¹	Cases	Rate¹	Cases[#]	Rate¹	Cases[#]	Rate¹	Cases[#]	Rate¹
Male	746	113.5	1197	181.8	1327	200.8	1258	189.2	1238	186.2
Female	1570	233.7	2486	370.0	2719	403.3	2430	358.5	2400	354.1
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	1	*	5	2.7	0	0.0	1	*	1	*
13-19	574	474.6	891	750.0	963	821.8	899	774.8	842	725.7
20-24	1029	1136.0	1611	1768.3	1789	1963.6	1630	1802.2	1582	1749.1
25-29	374	480.3	655	829.4	717	890.5	628	755.6	663	797.7
30-34	167	219.7	255	331.5	290	369.5	261	325.0	273	340.0
35-39	82	112.8	117	159.2	142	188.5	129	166.9	129	166.9
40-44	39	45.5	70	85.9	57	73.9	56	74.9	61	81.6
45-49	25	25.5	39	40.8	42	44.5	35	37.9	34	36.8
50-54	20	17.8	20	18.1	19	17.8	27	26.0	34	32.8
55-59	3	*	15	13.8	19	17.2	17	15.4	15	13.5
60+	2	*	5	1.6	10	3.1	6	1.8	5	1.5
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	1726	140.0	2505	203.6	2691	218.5	2398	194.1	2397	194.1
Black	103	461.9	128	558.9	160	671.9	165	668.1	176	712.6
Asian/Pacific Isl.	25	61.3	28	66.4	37	85.1	57	127.3	49	109.4
AmInd/AlaskNat	4	*	10	101.1	7	69.9	5	49.4	8	79.0
Other/Unknown ²	458	1966.4	1012	4110.6	1153	4404.0	1064	3801.0	1009	3604.5
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	117	256.9	159	337.1	162	325.1	171	326.2	208	396.8
HIV STATUS⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
PLWHA ⁵	16	NC	15	NC	19	NC	25	NC	26	NC
COUNTY/CITY⁶	Cases[^]	Rate¹	Cases[^]	Rate¹	Cases[^]	Rate¹	Cases[^]	Rate¹	Cases	Rate¹
Belknap	100	166.2	164	272.2	169	278.9	127	208.9	139	228.7
Carroll	42	88.7	74	156.4	93	196.2	80	166.4	76	158.1
Cheshire	169	221.6	230	302.5	211	278.7	184	242.2	180	237.0
Coos	26	79.3	70	216.6	60	188.0	64	202.3	103	325.6
Grafton	140	156.6	237	266.8	251	281.0	266	297.6	229	256.2
Hillsborough	848	209.4	1255	309.1	1458	357.6	1282	312.9	1331	324.9
Manchester	430	390.7	624	566.6	700	635.0	621	561.5	641	579.5
Nashua	165	190.1	283	324.9	288	330.0	277	316.1	296	337.7
Merrimack	281	190.5	436	294.9	424	286.2	380	254.7	339	227.2
Rockingham	394	130.9	695	230.0	772	254.0	722	235.7	675	220.3
Strafford	229	181.7	414	327.9	497	390.5	488	379.4	486	377.9
Sullivan	70	162.4	90	208.7	109	253.3	91	211.2	81	188.0



Chlamydia - Hillsborough County, 2014-2018

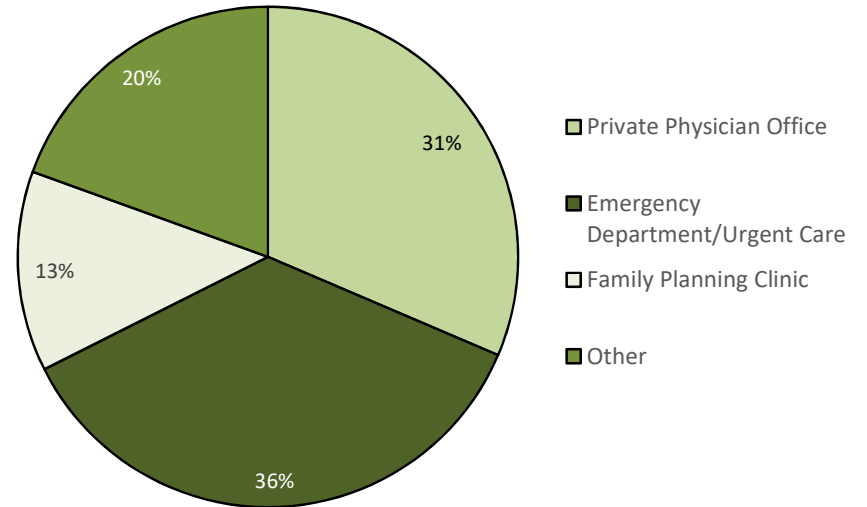


[#]Cases excluded due to unknown sex assigned at birth in 2016 (2), 2017 (1), and 2018 (1)
[^]Cases excluded due to unknown county in 2014 (17), 2015 (18), 2016 (4), and 2017 (5)

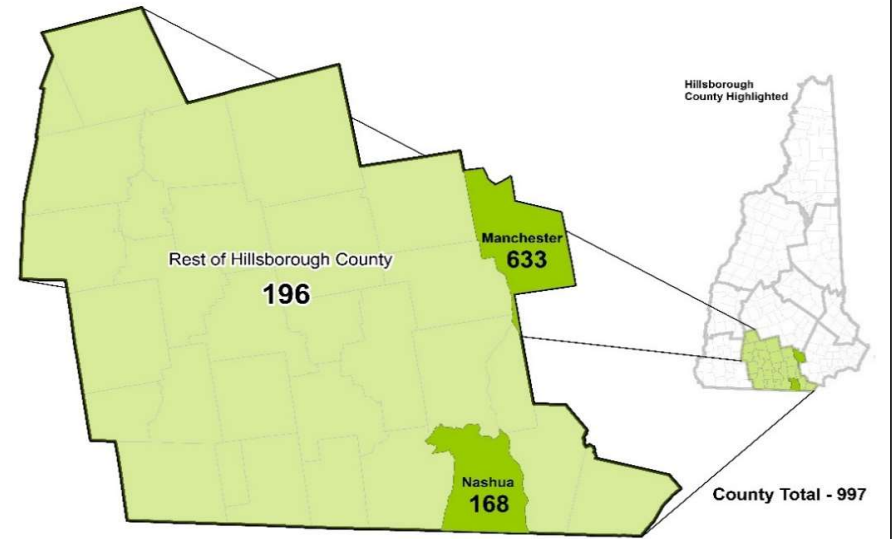
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report: Gonorrhea
 2014-2018

YEAR	2014		2015		2016		2017		2018	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	230	17.3	247	18.6	467	35.0	521	38.8	611	45.5
SEX	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	136	20.7	181	27.5	333	50.4	333	50.1	423	63.6
Female	94	14.0	66	9.8	134	19.9	188	27.7	188	27.7
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	1	*	0	0.0	2	*
13-19	27	22.3	31	26.1	48	41.0	42	36.2	53	45.7
20-24	66	72.9	74	81.2	105	115.2	111	122.7	156	172.5
25-29	60	77.1	41	51.9	92	114.3	116	139.6	119	143.2
30-34	38	50.0	38	49.4	70	89.2	65	80.9	95	118.3
35-39	13	17.9	11	15.0	42	55.7	65	84.1	61	78.9
40-44	7	8.2	14	17.2	26	33.7	32	42.8	30	40.1
45-49	10	10.2	19	19.9	29	30.7	31	33.6	32	34.7
50-54	5	4.5	8	7.3	25	23.4	26	25.1	31	29.9
55-59	3	*	6	5.5	19	17.2	16	14.5	14	12.6
60+	1	*	5	1.6	10	3.1	17	5.1	18	5.4
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	172	14.0	182	14.8	336	27.3	371	30.0	460	37.2
Black	19	85.2	18	78.6	24	100.8	36	145.8	47	190.3
Asian/Pacific Isl.	2	*	5	11.9	4	*	16	35.7	13	29.0
Amlnd/AlaskNat	0	0.0	0	0.0	1	*	1	*	0	0.0
Other/Unknown ²	37	158.9	42	170.6	102	389.6	97	346.5	91	325.1
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	13	28.5	14	29.7	23	46.2	27	51.5	45	85.9
HIV STATUS⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
PLWHA ⁵	17	NC	27	NC	30	NC	27	NC	42	NC
COUNTY/CITY⁶	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	4	*	6	10.0	12	19.8	45	74.0	16	26.3
Carroll	2	*	2	*	1	*	3	*	9	18.7
Cheshire	17	22.3	27	35.5	19	25.1	16	21.1	21	27.6
Coos	1	*	1	*	7	21.9	5	15.8	1	*
Grafton	9	10.1	10	11.3	19	21.3	23	25.7	27	30.2
Hillsborough	89	22.0	111	27.3	251	61.6	236	57.6	310	75.7
Manchester	51	46.3	72	65.4	172	156.0	136	123.0	202	182.6
Nashua	18	20.7	21	24.1	33	37.8	46	52.5	50	57.1
Merrimack	21	14.2	24	16.2	48	32.4	60	40.2	60	40.2
Rockingham	48	15.9	35	11.6	68	22.4	87	28.4	90	29.4
Strafford	33	26.2	26	20.6	34	26.7	41	31.9	68	52.9
Sullivan	6	13.9	5	11.6	8	18.6	5	11.6	9	20.9

Gonorrhea by Facility of Diagnosis, 2018



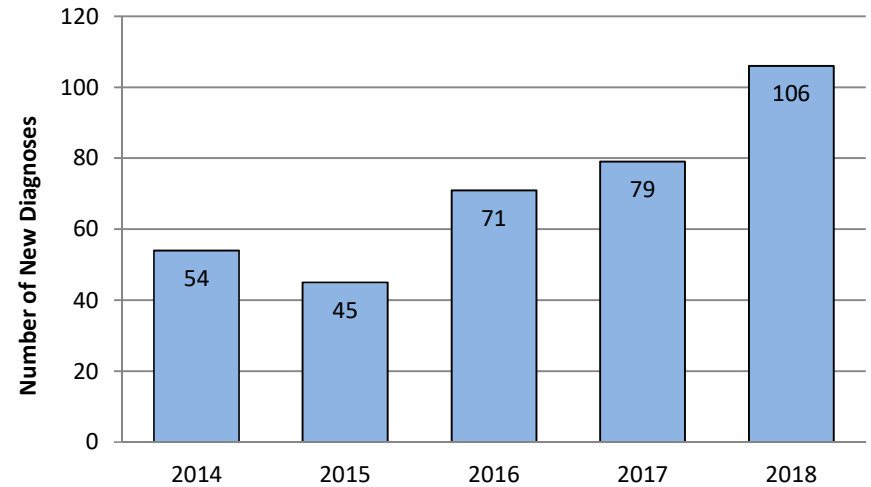
Gonorrhea - Hillsborough County, 2014-2018



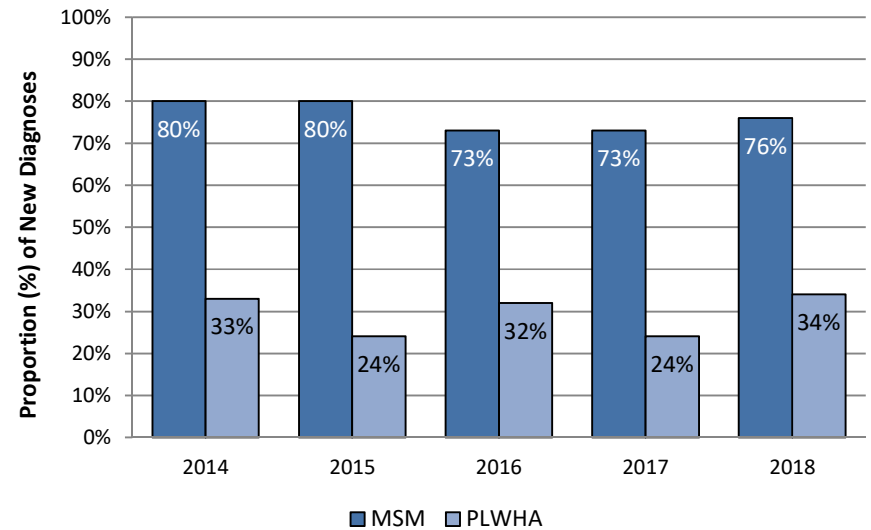
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report: Infectious Syphilis
 2014-2018

YEAR	2014		2015		2016		2017		2018	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	54	4.1	45	3.4	71	5.3	79	5.9	106	7.9
SEX	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	47	7.2	41	6.2	65	9.8	71	10.7	100	15.0
Female	7	1.0	4	*	6	0.9	8	1.2	6	0.9
AGE-SPECIFIC	Cases	Rate¹	Cases[#]	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
13-19	2	*	2	*	1	*	1	*	6	5.2
20-24	10	11.0	6	6.6	7	7.7	10	11.1	19	21.0
25-29	3	*	7	8.9	10	12.4	18	21.7	19	22.9
30-34	12	15.8	10	13.0	17	21.7	18	22.4	15	18.7
35-39	6	8.3	6	8.2	11	14.6	13	16.8	15	19.4
40-44	2	*	3	*	3	*	6	8.0	5	6.7
45-49	9	9.2	3	*	11	11.7	4	*	11	11.9
50-54	5	4.5	3	*	7	6.5	2	*		0.0
55-59	2	*	1	*	3	*	3	*	3	*
60+	3	*	3	*	1	*	4	*	5	1.5
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	48	3.9	38	3.1	63	5.1	60	4.9	77	6.2
Black	3	*	1	*	1	*	3	*	7	28.3
Asian/Pacific Isl.	1	*	0	0.0	0	0.0	1	*	2	*
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	2	*	6	24.4	7	26.7	15	53.6	20	71.4
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	5	11.0	4	*	4	*	4	*	13	24.8
HIV STATUS⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
PLWHA ⁵	18	NC	11	NC	23	NC	19	NC	36	NC
COUNTY/CITY⁶	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	2	*	0	0.0	0	0.0	4	*
Carroll	0	0.0	1	*	0	0.0	0	0.0	2	*
Cheshire	1	*	1	*	1	*	4	*	4	*
Coos	0	0.0	1	*	2	*	1	*	1	*
Grafton	3	*	4	*	5	5.6	2	*	0	0.0
Hillsborough	24	5.9	13	3.2	29	7.1	31	7.6	49	12.0
<i>Manchester</i>	15	13.6	9	8.2	17	15.4	14	12.7	3	*
<i>Nashua</i>	6	6.9	4	*	7	8.0	4	*	13	14.8
Merrimack	3	*	1	*	6	4.1	8	5.4	7	4.7
Rockingham	18	6.0	17	5.6	15	4.9	17	5.5	20	6.5
Strafford	3	*	5	4.0	13	10.2	10	7.8	18	14.0
Sullivan	2	*	0	0.0	0	0.0	6	13.9	1	*

New Diagnoses of Infectious Syphilis⁷, 2014-2018



New Diagnoses of Infectious Syphilis⁷ by Identified Risk⁸ and HIV Status, 2014-2018

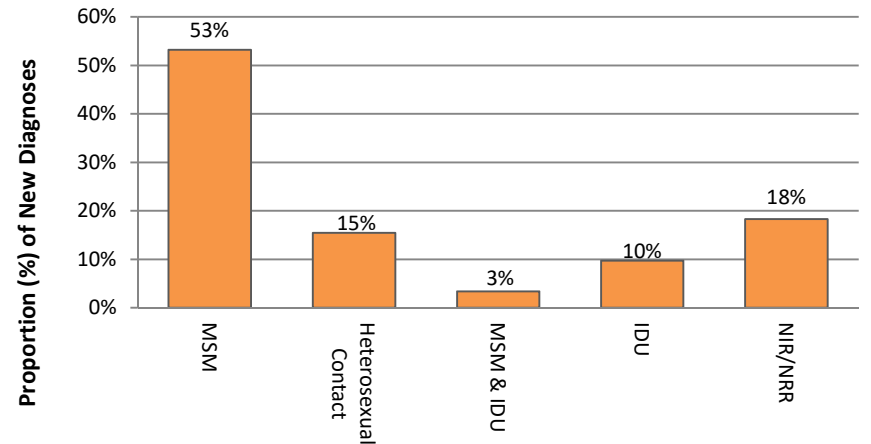


[#]Case excluded due to unknown age in 2015 (1)

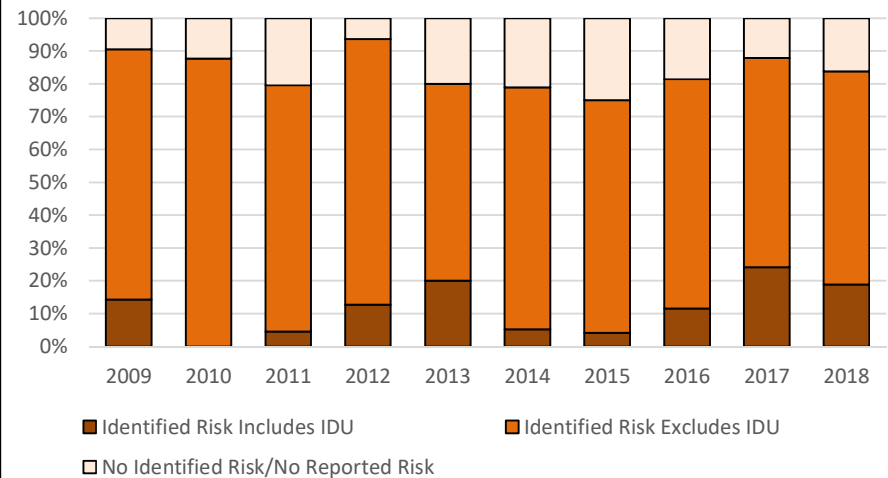
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report: HIV
 2014-2018

YEAR	2014		2015		2016		2017		2018	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁹	38	2.9	24	1.8	43	3.2	33	2.5	37	2.8
SEX	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	31	4.7	22	3.3	28	4.2	24	3.6	29	4.4
Female	7	1.0	2	*	15	2.2	9	1.3	8	1.2
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
13-19	1	*	1	*	0	0.0	0	0.0	0	0.0
20-24	7	7.7	5	5.5	5	5.5	7	7.7	3	*
25-29	5	6.4	2	*	6	7.5	3	*	7	8.4
30-34	6	7.9	4	*	6	7.6	4	*	7	8.7
35-39	3	*	2	*	4	*	6	7.8	2	*
40-44	2	*	3	*	5	6.5	1	*	6	8.0
45-49	4	*	0	0.0	6	6.4	3	*	7	7.6
50-54	5	4.5	4	*	7	6.5	4	*	3	*
55-59	4	*	3	*	2	*	2	*	1	*
60+	1	*	0	0.0	2	*	3	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	22	1.8	19	1.5	26	2.1	21	1.7	29	2.3
Black	9	40.4	3	*	7	29.4	5	20.2	3	*
Asian/Pacific Isl.	1	*	0	0.0	1	*	0	0.0	1	*
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	6	25.8	2	*	10	38.2	7	25.0	5	17.9
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	6	13.2	0	0.0	7	14.0	5	9.5	3	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	1	*	2	*	0	0.0	0	0.0	1	*
Carroll	1	*	0	0.0	1	*	2	*	1	*
Cheshire	1	*	0	0.0	4	*	1	*	0	0.0
Carroll	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	3	*	2	*	2	*	1	*	0	0.0
Hillsborough	21	5.2	8	2.0	18	4.4	20	4.9	27	6.6
Merrimack	3	*	5	3.4	8	5.4	3	*	3	*
Rockingham	6	2.0	5	1.7	5	1.6	4	*	3	*
Strafford	2	*	2	*	4	*	2	*	2	*
Sullivan	0	0.0	0	0.0	1	*	0	0.0	0	0.0

HIV Incidence by Identified or Reported Risk⁸, 2014-2018

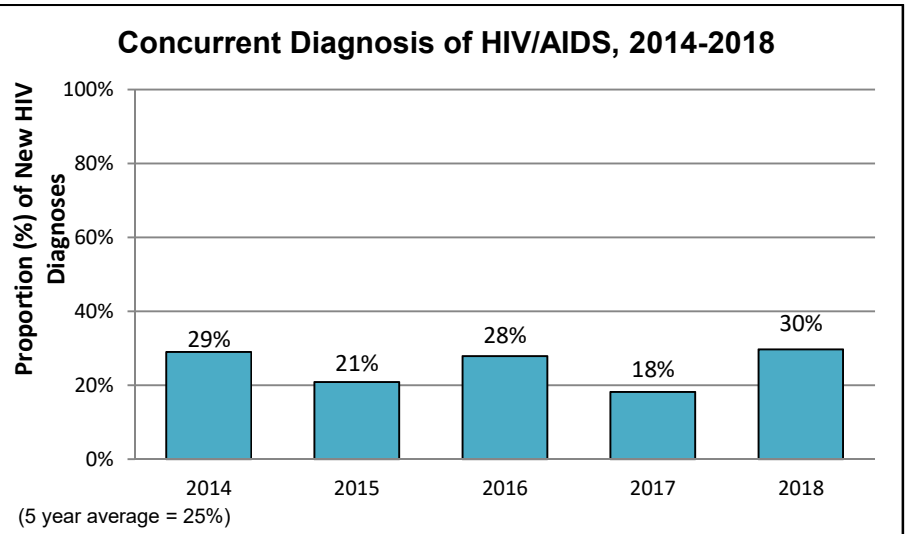


HIV Incidence by Identified or Reported Risk⁸ Including Injection Drug Use (IDU), 2009-2018



New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report: AIDS
 2014-2018

YEAR	2014		2015		2016		2017		2018	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL ¹⁰	16	1.2	15	1.1	23	1.7	14	1.0	19	1.4
SEX	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	11	1.7	12	1.8	19	2.9	11	1.7	12	1.8
Female	5	0.7	3	*	4	*	3	*	7	1.0
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
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	1	*	2	*	0	0.0	2	*	1	*
25-29	2	*	2	*	3	*	0	0.0	3	*
30-34	0	0.0	2	*	2	*	0	0.0	2	*
35-39	1	*	0	0.0	3	*	1	*	1	*
40-44	3	*	0	0.0	1	*	2	*	3	*
45-49	2	*	2	*	8	8.5	4	*	4	*
50-54	3	*	3	*	3	*	1	*	3	*
55-59	3	*	3	*	3	*	3	*	1	*
60+	1	*	1	*	0	0.0	1	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	8	0.6	10	0.8	17	1.4	9	0.7	12	1.0
Black	4	*	3	*	1	*	3	*	3	*
Asian/Pacific Isl.	1	*	0	0.0	1	*	0	0.0	1	*
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	3	*	2	*	4	*	2	*	3	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	3	*	2	*	3	*	2	*	3	*
COUNTY/CITY ⁶	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	2	*	0	0.0	0	0.0	1	*	1	*
Carroll	1	*	0	0.0	0	0.0	1	*	0	0.0
Cheshire	1	*	1	*	2	*	0	0.0	1	*
Carroll	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	1	*	0	0.0	1	*	0	0.0	0	0.0
Hillsborough	8	2.0	7	1.7	12	2.9	7	1.7	12	2.9
Merrimack	0	0.0	3	*	1	*	1	*	1	*
Rockingham	3	*	2	*	6	2.0	4	*	3	*
Strafford	0	0.0	2	*	1	*	0	0.0	1	*
Sullivan	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0



Concurrent diagnosis is defined as diagnosis of AIDS within 12 months of an initial HIV diagnosis.
 2018 concurrent diagnosis data is provisional and not yet validated.
 2018 concurrent diagnosis data may change when data are finalized.

