



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2013-2017



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. HIV and AIDS data in this report are complete as of May 7, 2018. Chlamydia, gonorrhea, and infectious syphilis data in this report are complete as of May 8, 2018.

1: Case rate per 100,000 persons. Case rates calculated on 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-race

3: Hispanic may be of any race

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

5: County/City data is based upon residence at time of disease diagnosis.

6: MSM= male-to-male sexual contact, IDU = injection drug use, Pediatric=mother with or at risk for HIV, NRR=no reported risk, and NIR= no identified risk.

Heterosexual contact = The Centers for Disease Control and Prevention (CDC) changed the term in the mode of transmission category from "high-risk heterosexual contact" to "heterosexual contact". This is clarified in the report "Diagnoses of HIV infection and AIDS in the United States and Dependent Areas, 2008", released in July 2010. Persons whose transmission category is classified as heterosexual contact are persons who report specific heterosexual contact with a person known to have, or to be at high risk for, HIV infection (e.g., an injection drug user).

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

8: US Dependency refers to Puerto Rico and the Virgin Islands, Other Region refers to Canada, Mexico, Europe, Asia, Middle East, Central America, and South America

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

Data sources: Sexually Transmitted Disease Management Information System (STD MIS), enhanced HIV AIDS Reporting System (eHARS), and Environmental Systems Research Institute (ESRI) ArcMap.

Report Contributors

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New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report Highlights, 2013 - 2017

Chlamydia

1. Overall increase in case count seen in the last 5 years.
2. Persons under age 30 and females of any age are most affected.
3. Highest rates of disease found in southern NH, notably Hillsborough County, with increased rates also observed in Strafford County.

Gonorrhea

1. Overall increase in case count over the last 5 years, with outbreak status declared in 2016.
2. Females and males both affected, though males account for more cases of diagnosed gonorrhea. Persons between 20 and 49 years old are most affected.
3. Hillsborough County, specifically the city of Manchester, bears the highest burden of disease.

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

1. Case count stable between 2012 and 2015, with an increase observed beginning in 2016.
2. Outbreak status declared in 2017 in accordance with the definition of outbreak for STDs: increase of 2 or more standard deviations from the mean across various characteristics.
3. Higher proportion of those diagnosed with infectious syphilis report MSM and/or HIV co-infection compared to those diagnosed with chlamydia or gonorrhea.

HIV

1. Newly diagnosed infections have remained relatively stable over the past 5 years.
2. MSM is the most common identified risk, but increases have been noted in the proportion of new cases with any reported injection drug use as well as in the proportion reporting injection drug use as the primary identified risk.
3. The majority of new cases occur among people living in southern NH, specifically Hillsborough, Merrimack, Rockingham, and Strafford Counties.

AIDS

1. Identified risk for AIDS diagnoses are very similar to identified risk for HIV diagnoses.
2. From 2013-2017, 25% of patients newly diagnosed with HIV were concurrently diagnosed with AIDS (that is, received an AIDS diagnosis within 12 months of their first HIV diagnosis). Concurrent diagnosis indicates a missed opportunity for prevention, testing, and treatment.

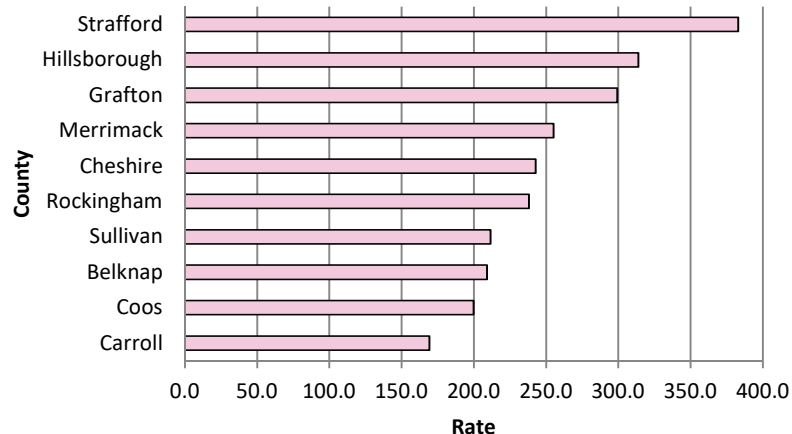
Resources

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>

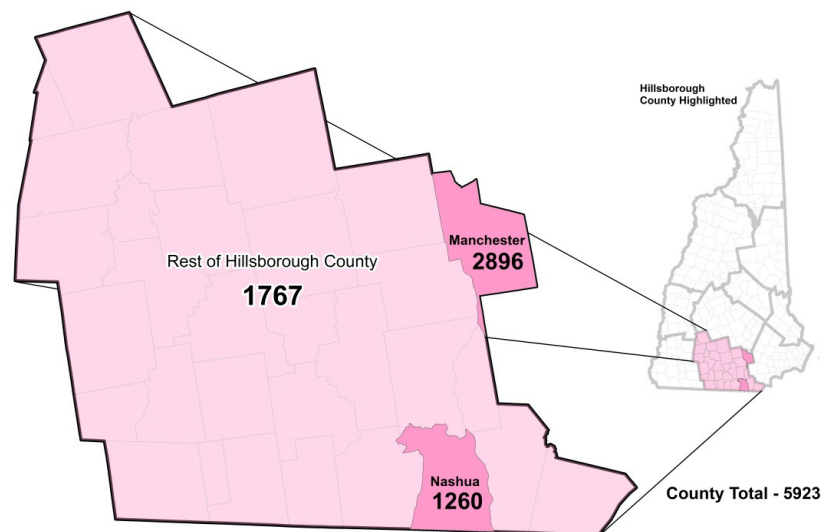
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 Chlamydia

YEAR	2013		2014		2015		2016		2017	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	3095	234.0	2316	174.3	3683	276.9	4047	303.1	3686	274.5
GENDER	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases [#]	Rate ¹	Cases [#]	Rate ¹
Male	920	140.8	747	113.7	1198	182.0	1325	200.5	1258	189.2
Female	2175	324.9	1569	233.6	2485	369.9	2720	403.5	2427	358.1
AGE-SPECIFIC	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
0-12	1	*	1	*	5	2.7	0	0.0	1	*
13-19	809	658.6	574	474.6	891	750.0	963	821.8	899	774.8
20-24	1436	1617.6	1029	1136.0	1611	1768.3	1789	1963.6	1627	1798.9
25-29	470	620.4	374	4754.0	655	829.4	716	889.3	628	755.6
30-34	207	276.5	167	219.7	255	331.5	290	369.5	261	325.0
35-39	69	95.2	82	112.8	117	159.2	142	188.5	129	166.9
40-44	50	55.9	39	45.5	70	85.9	57	73.9	56	74.9
45-49	27	26.6	25	25.5	39	40.8	42	44.5	35	37.9
50-54	19	16.8	20	17.8	20	18.1	19	17.8	27	26.0
55-59	5	4.8	3	*	15	13.8	19	17.2	17	15.4
60+	2	*	2	*	5	1.6	10	4.4	6	1.8
RACE	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	2559	205.2	1717	137.6	2498	199.9	2675	213.7	2365	188.2
Black	117	605.7	102	518.1	127	640.8	154	759.9	160	753.3
Asian/Pacific Isl.	25	76.6	25	72.7	28	78.9	37	101.5	57	150.7
Amlnd/AlaskNat	10	265.5	4	*	10	257.4	7	178.3	5	125.7
Other/Unknown ²	384	1949.5	468	2029.8	1020	4797.3	1174	5221.5	1099	4787.8
ETHNICITY		Rate ¹		Rate ¹		Rate ¹		Rate ¹		Rate ¹
Hispanic ³	154	366.7	117	268.7	155	339.8	160	339.6	169	341.0
HIV INFECTED⁴		Rate ¹		Rate ¹		Rate ¹		Rate ¹		Rate ¹
Total	11	NC	15	NC	12	NC	16	NC	25	NC
COUNTY/CITY⁵	Cases [^]	Rate ¹	Cases [^]	Rate ¹	Cases [^]	Rate ¹	Cases [^]	Rate ¹	Cases [^]	Rate ¹
Belknap	150	249.6	100	166.2	164	272.2	169	278.9	127	208.9
Carroll	37	77.9	42	88.7	74	156.4	93	196.2	80	166.4
Cheshire	188	245.5	169	221.6	230	302.5	211	278.7	184	242.2
Coos	62	194.1	26	79.3	70	216.5	60	188.0	64	202.3
Grafton	229	256.0	140	156.6	237	266.8	250	279.9	266	297.6
Hillsborough	1082	268.2	848	209.4	1255	309.1	1458	357.6	1280	312.4
Manchester	521	472.3	430	389.4	624	565.8	700	632.1	621	558.5
Nashua	247	284.0	165	189.1	283	322.7	288	327.5	277	313.6
Merrimack	363	246.8	281	190.5	436	295.5	423	285.6	379	254.0
Rockingham	515	172.2	394	130.9	695	230.9	773	254.3	722	235.7
Strafford	346	277.6	229	181.7	414	327.9	497	390.5	488	379.4
Sullivan	122	283.6	70	162.4	90	213.7	109	253.3	91	211.2

Chlamydia by County and Rate¹, 2017



Chlamydia - Hillsborough County, 2013-2017



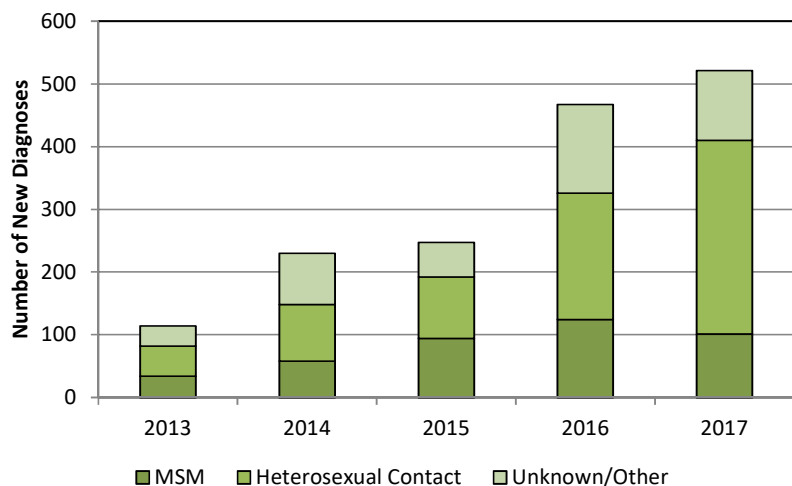
[#]Cases excluded due to unknown gender in 2016 (2) and 2017 (1)

[^]Cases excluded due to unknown county in 2013 (1), 2014 (17), 2015 (18), 2016 (4), and 2017 (5)

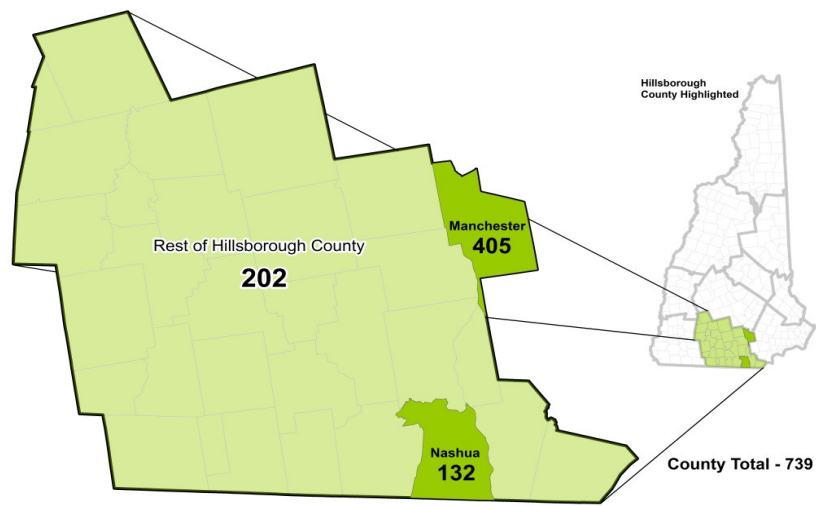
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 Gonorrhea

YEAR	2013		2014		2015		2016		2017	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	114	8.6	230	17.3	247	18.6	467	35.0	521	38.8
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	66	10.1	136	20.7	181	27.5	333	50.4	333	50.1
Female	48	7.2	94	14.0	66	9.8	134	19.9	188	27.7
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	0	0.0	1	*	0	0.0
13-19	9	7.3	27	22.3	31	26.1	48	41.0	42	36.2
20-24	38	42.8	66	72.9	74	81.2	105	115.2	111	122.7
25-29	22	29.0	60	762.7	41	51.9	92	114.3	116	139.6
30-34	7	9.3	38	50.0	38	49.4	70	89.2	65	80.9
35-39	9	12.4	13	17.9	11	15.0	42	55.7	65	84.1
40-44	9	10.1	7	8.2	14	17.2	26	33.7	32	42.8
45-49	11	10.8	10	10.2	19	19.9	29	30.7	31	33.6
50-54	6	5.3	5	4.5	8	7.3	25	23.4	26	25.1
55-59	0	0.0	3	*	6	5.5	19	17.2	16	14.5
60+	3	*	1	*	5	1.6	10	4.4	17	5.1
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	97	7.8	172	13.8	181	14.5	334	26.7	370	29.4
Black	9	46.6	19	96.5	18	90.8	24	118.4	35	164.8
Asian/Pacific Isl.	1	*	2	*	5	14.1	4	*	16	42.3
Amlnd/AlaskNat	2	*	0	0.0	0	0.0	1	*	1	*
Other/Unknown ²	5	25.4	37	160.5	43	202.2	104	462.6	99	431.3
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	6	14.3	13	29.9	14	30.7	23	48.8	27	54.5
HIV INFECTED⁴		Rate¹		Rate¹		Rate¹		Rate¹		Rate¹
Total	6	NC	16	NC	24	NC	29	NC	25	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	3	*	4	*	6	10.0	12	19.8	45	74.0
Carroll	2	*	2	*	2	*	1	*	3	*
Cheshire	9	11.8	17	22.3	27	35.5	19	25.1	16	21.1
Coos	1	*	1	*	1	*	7	21.9	5	15.8
Grafton	4	*	9	10.1	10	11.3	19	21.3	23	25.7
Hillsborough	52	12.9	89	22.0	111	27.3	251	61.6	236	57.6
<i>Manchester</i>	25	22.7	51	46.2	72	65.3	171	154.4	86	77.3
<i>Nashua</i>	14	16.1	18	20.6	21	23.9	33	37.5	46	52.1
Merrimack	12	8.2	21	14.2	24	16.3	48	32.4	60	40.2
Rockingham	20	6.7	48	15.9	35	11.6	68	22.4	87	28.4
Strafford	11	8.8	33	26.2	26	20.6	34	26.7	41	31.9
Sullivan	0	0.0	6	13.9	5	11.9	8	18.6	5	11.6

Gonorrhea Case Count by Risk⁶, 2013-2017

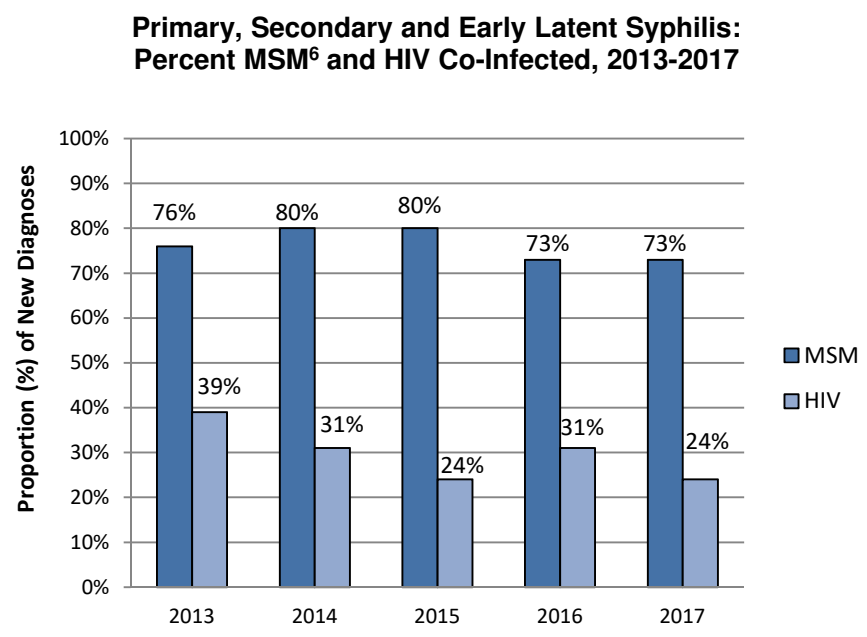
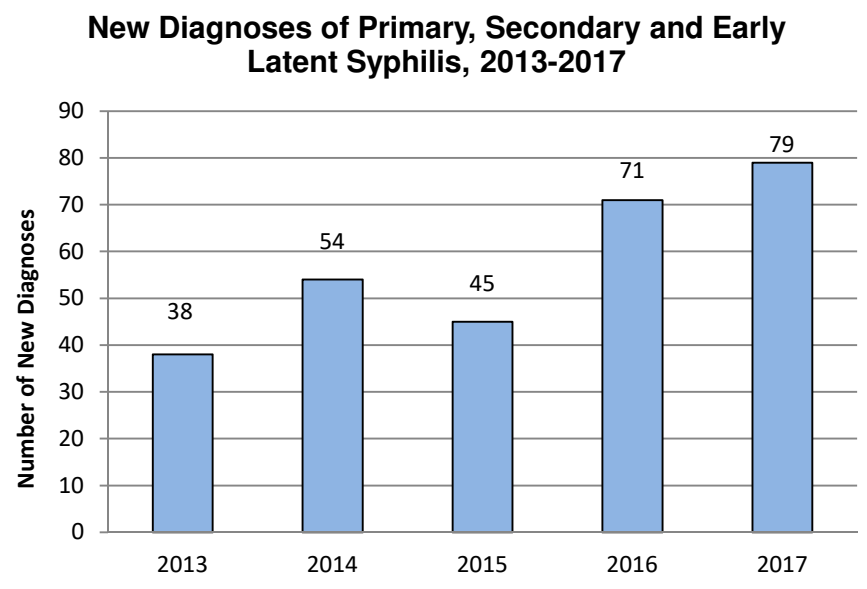


Gonorrhea - Hillsborough County, 2013-2017



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 Infectious Syphilis

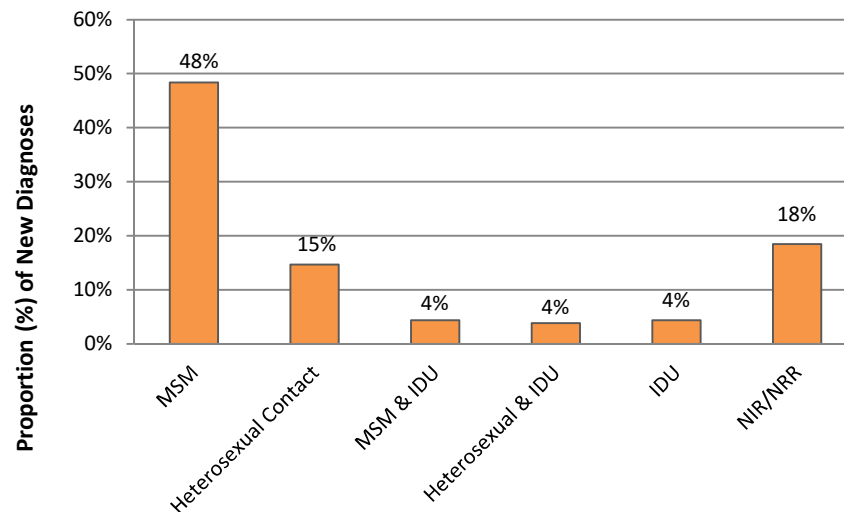
YEAR	2013		2014		2015		2016		2017	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	38	2.9	54	4.1	45	3.4	71	5.3	79	5.9
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	35	5.4	47	7.2	41	6.2	65	9.8	71	10.7
Female	3	*	7	1.0	4	*	6	0.9	8	1.2
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	1	*	0	0.0	0	0.0
13-19	1	*	2	*	2	*	1	*	1	*
20-24	6	6.8	10	11.0	6	6.6	7	7.7	10	11.1
25-29	4	*	3	*	7	8.9	10	12.4	18	21.7
30-34	8	10.7	12	15.8	10	13.0	17	21.7	18	22.4
35-39	5	6.9	6	8.3	6	8.2	11	14.6	13	16.8
40-44	3	*	2	*	3	*	3	*	6	8.0
45-49	3	*	9	9.2	3	*	11	11.7	4	*
50-54	5	4.4	5	4.5	3	*	7	6.5	2	*
55-59	1	*	2	*	1	*	3	*	3	*
60+	2	*	3	*	3	*	1	*	4	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	31	2.5	48	3.8	38	3.0	62	5.0	58	4.6
Black	3	*	3	*	1	*	2	*	3	*
Asian/Pacific Isl.	0	0.0	1	*	0	0.0	0	0.0	2	*
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	4	*	2	*	6	28.2	7	31.1	16	69.7
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	2	*	5	11.5	4	*	4	*	4	*
HIV INFECTED⁴		Rate¹		Rate¹		Rate¹		Rate¹		Rate¹
Total	15	NC	17	NC	11	NC	22	NC	19	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	0	0.0	2	*	0	0.0	0	0.0
Carroll	1	*	0	0.0	1	*	0	0.0	0	0.0
Cheshire	1	*	1	*	1	*	1	*	4	*
Coos	0	0.0	0	0.0	1	*	2	*	1	*
Grafton	1	*	3	*	4	*	5	5.6	2	*
Hillsborough	11	2.7	24	5.9	13	3.2	29	7.1	31	7.6
<i>Manchester</i>	6	5.4	15	13.6	9	8.2	17	15.4	21	18.9
<i>Nashua</i>	4	*	6	6.9	4	*	7	8.0	6	6.8
Merrimack	2	*	3	*	1	*	6	4.1	8	5.4
Rockingham	15	5.0	18	6.0	17	5.6	15	4.9	17	5.5
Strafford	4	*	3	*	5	4.0	13	10.2	10	7.8
Sullivan	3	*	2	*	0	0.0	0	0.0	6	13.9



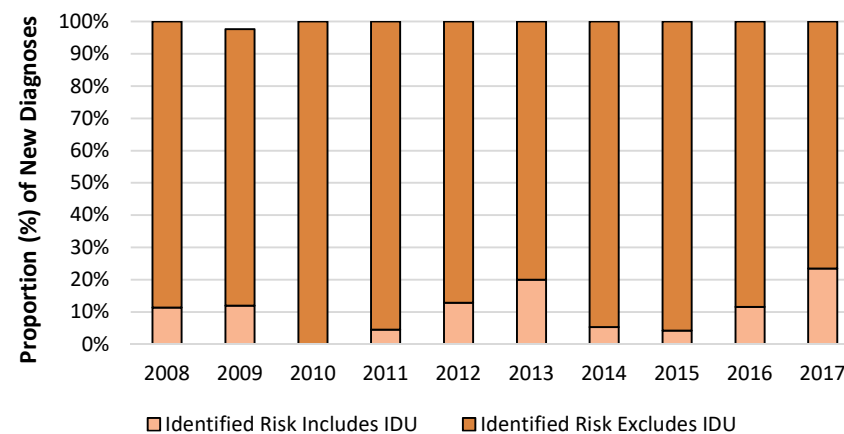
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 HIV

YEAR	2013		2014		2015		2016		2017	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	34	2.6	38	2.9	24	1.8	43	3.2	34	2.5
GENDER	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Male	28	4.3	31	4.7	22	3.3	28	4.2	24	3.6
Female	6	0.9	7	1.0	2	*	15	2.2	10	1.5
AGE-SPECIFIC	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
0-12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
13-19	1	*	1	*	1	*	0	0.0	0	0.0
20-24	4	*	7	7.7	5	5.5	5	5.5	7	7.7
25-29	8	10.6	5	63.6	2	*	6	7.5	3	*
30-34	3	*	6	7.9	4	*	6	7.6	4	*
35-39	2	*	3	*	2	*	4	*	6	7.8
40-44	2	*	2	*	3	*	5	6.5	1	*
45-49	5	4.9	4	*	0	0.0	6	6.4	4	*
50-54	5	4.4	5	4.5	4	*	7	6.5	4	*
55-59	2	*	4	*	3	*	2	*	2	*
60+	2	*	1	*	0	0.0	2	*	3	*
RACE	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	26	2.1	2	*	19	1.5	26	2.1	21	1.7
Black	2	*	9	45.7	3	*	7	34.5	6	28.2
Asian/Pacific Isl.	1	*	1	*	0	0.0	1	*	0	0.0
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	3	*	6	26.0	1	*	8	35.6	5	21.8
ETHNICITY	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Hispanic ³	3	*	6	13.8	0	0.0	7	14.9	5	10.1
COUNTY/CITY⁵	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Belknap	0	0.0	1	*	2	*	0	0.0	3	*
Carroll	0	0.0	1	*	0	0.0	1	*	1	*
Cheshire	2	*	1	*	0	0.0	4	*	1	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	1	*	3	*	2	*	2	*	1	*
Hillsborough	9	2.2	21	5.2	8	2.0	18	4.4	19	4.6
Merrimack	8	5.4	3	*	5	3.4	8	5.4	2	*
Rockingham	7	2.3	6	2.0	5	1.7	5	1.6	4	*
Strafford	4	*	2	*	2	*	4	*	3	*
Sullivan	3	*	0	0.0	0	0.0	1	*	0	0.0

HIV Incidence by Identified Risk⁶, 2013-2017

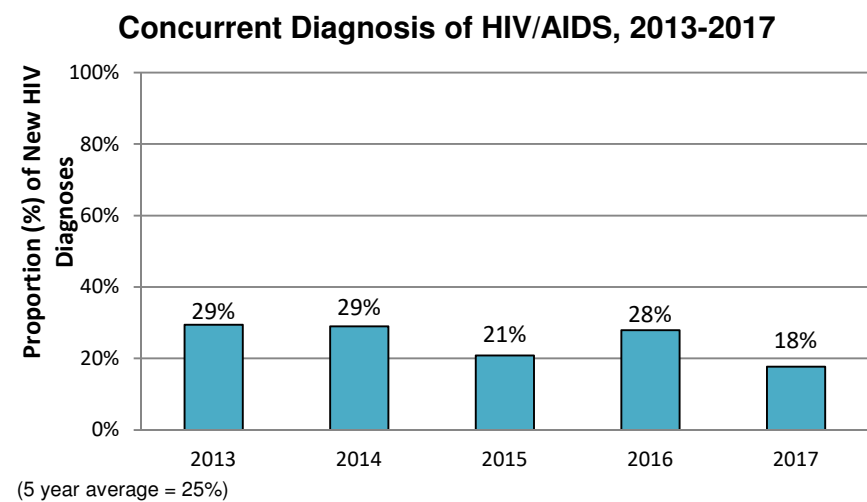


HIV Incidence by Identified Risk⁶ Including Injection Drug Use (IDU), 2008-2017



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YEAR	2013		2014		2015		2016		2017	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁹	17	1.3	16	1.2	15	1.1	23	1.7	14	1.0
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	14	2.1	11	1.7	12	1.8	19	2.9	11	1.7
Female	3	*	5	0.7	3	*	4	*	3	*
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	2	*	1	*	2	*	0	0.0	2	*
25-29	0	0.0	2	*	2	*	3	*	0	0.0
30-34	1	*	0	0.0	2	*	2	*	0	0.0
35-39	3	*	1	*	0	0.0	3	*	1	*
40-44	2	*	3	*	0	0.0	1	*	2	*
45-49	3	*	2	*	2	*	8	8.5	4	*
50-54	3	*	3	*	3	*	3	*	1	*
55-59	2	*	3	*	3	*	3	*	3	*
60+	1	*	1	*	1	*	0	0.0	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	9	0.7	8	0.6	10	0.8	16	1.3	9	0.7
Black	4	*	4	*	3	*	1	*	3	*
Asian/Pacific Isl.	1	*	1	*	0	0.0	1	*	0	0.0
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	3	*	3	*	2	*	5	22.2	2	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	3	*	3	*	2	*	3	*	2	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	2	*	0	0.0	0	0.0	3	*
Carroll	0	0.0	1	*	0	0.0	0	0.0	0	0.0
Cheshire	1	*	1	*	1	*	2	*	0	0.0
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	0	0.0	1	*	0	0.0	1	*	0	0.0
Hillsborough	7	1.7	8	2.0	7	1.7	12	2.9	6	1.5
Merrimack	4	*	0	0.0	3	*	1	*	1	*
Rockingham	2	*	3	*	2	*	6	2.0	4	*
Strafford	2	*	0	0.0	2	*	1	*	0	0.0
Sullivan	1	*	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.
 2017 concurrent diagnosis data is provisional and not yet validated.
 2017 concurrent diagnosis data may change when data are finalized.

