



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2011-2015



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. All data in this report are complete as of November 21, 2016.

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, Perinatal=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 (STDMIS), enhanced HIV AIDS Reporting System (eHARS), PRISM, and Environmental Systems Research Institute (ESRI) ArcMap.

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New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report Highlights, 2011 - 2015

Chlamydia

1. Increasing case counts by 22% seen from 2011 to 2015, higher than national increase of 8% for the same years
2. Females, and persons under age 30 are most affected
3. Highest burden of disease in the southern part of NH, specifically Hillsborough County

Gonorrhea

1. Increasing case counts by 82% seen from 2011-2015, higher than the national increase of 22% for the same years
2. NH DPHS investigated the 265 diagnosed cases in 2015 as a possible outbreak, as this number of cases was higher than expected. It was concluded that there was not an outbreak of gonorrhea in 2015 based on the definition of outbreak for STDs (≥ 2 standard deviations from the mean across various characteristics)
3. Females and males both affected, though males account for more cases of diagnosed gonorrhea. Persons under age 30 are most affected
4. Hillsborough County, specifically the city of Manchester, bears the highest burden of disease

Primary, Secondary, and Early Latent Syphilis (Infectious Syphilis)

1. Increasing case counts by 81% from 2011-2015, higher than the national increase of 77% for the same years
2. NH DPHS investigated the 49 diagnosed cases in 2015 as a possible outbreak, as this number of cases was higher than expected. It was concluded that there was not an outbreak of syphilis in 2015 based on the definition of outbreak for STDs (≥ 2 standard deviations from the mean across various characteristics)
3. Highest numbers of HIV co-infection cases seen among those diagnosed with infectious syphilis

HIV

1. Newly diagnosed infections have been relatively stable over the past 5 years
2. Male to male sexual contact is the most common risk factor
3. The majority of new cases occur among people living in the southern part of NH (Hillsborough, Merrimack, Rockingham, and Strafford counties)

AIDS

1. Risk factors identified for AIDS diagnoses are very similar to the risk factors identified for HIV diagnoses
2. The percent of patients concurrently diagnosed with AIDS (AIDS diagnosis within 12 months of their first HIV diagnosis) has varied over the past 5 years with the 5-year average being 28%

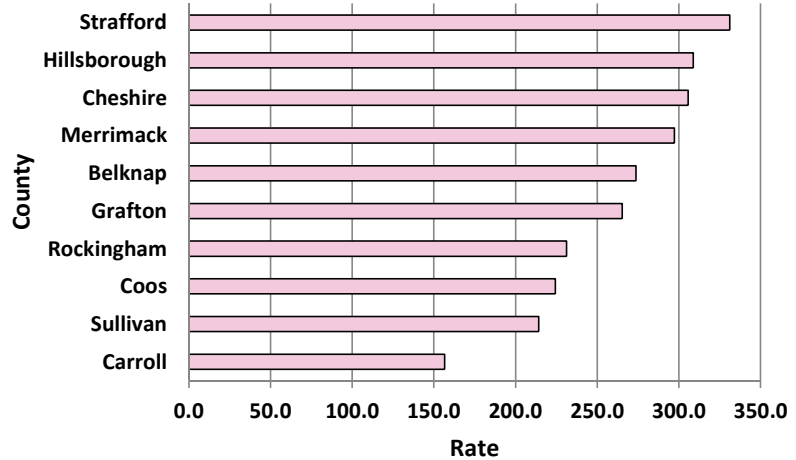
Resources

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>
4. CDC STD Surveillance: <https://www.cdc.gov/std/default.htm>

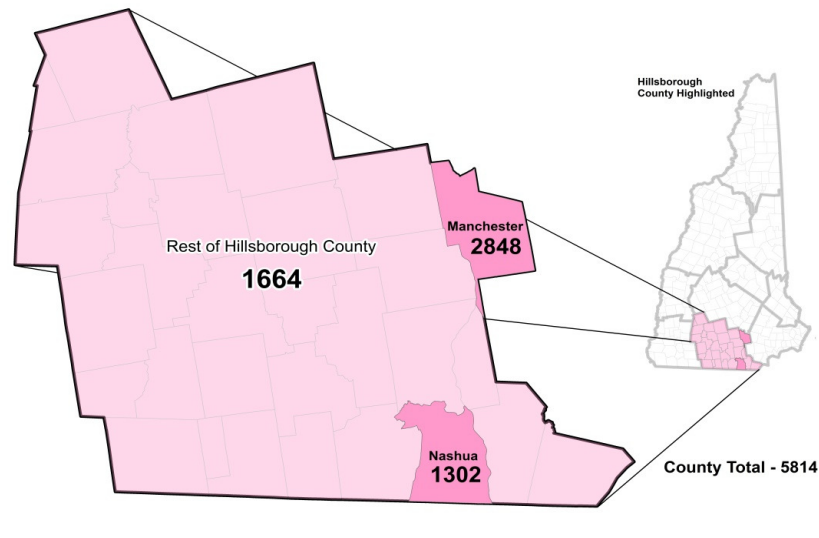
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report
 2011-2015
 Chlamydia

YEAR	2011		2012		2013		2014		2015	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	3023	229.3	3070	232.4	3132	236.7	3563	268.5	3685	276.9
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	835	128.3	918	140.7	933	142.7	1129	172.2	1200	182.5
Female	2188	327.9	2152	321.9	2199	328.3	2434	362.6	2485	369.3
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	1	*	0	0.0	4	*
13-19	961	755.1	923	733.5	824	666.3	791	648.4	889	740.9
20-24	1328	1559.8	1354	1574.4	1450	1645.8	1587	1760.3	1611	1765.1
25-29	433	582.0	455	604.2	474	619.0	666	855.5	660	829.9
30-34	170	234.1	180	243.2	210	280.0	258	338.4	255	332.5
35-39	61	79.2	83	112.1	69	95.3	121	166.5	117	159.6
40-44	32	33.5	33	35.4	51	56.8	61	71.1	70	85.7
45-49	22	20.2	24	22.7	27	26.6	35	35.8	39	40.9
50-54	10	8.7	12	10.5	19	16.8	25	22.3	20	18.2
55-59	4	*	5	4.9	5	4.7	12	11.1	15	13.7
60+	2	*	1	*	2	*	7	2.3	5	1.6
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	2287	183.3	2539	203.6	2567	205.8	2511	207.3	2432	194.6
Black	86	498.4	116	631.3	113	585.0	136	818.6	126	635.8
Asian/Pacific Isl.	28	92.2	36	113.5	26	79.6	39	117.1	29	81.7
Amlnd/AlaskNat	18	490.7	9	247.7	11	292.0	12	425.5	9	231.7
Other/Unknown ²	604	3096.6	370	1858.1	415	2021.0	865	1372.9	1089	5010.1
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	112	290.5	122	304.7	159	378.6	148	339.9	150	328.8
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	17	NC	9	NC	8	NC	28	NC	11	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	128	212.5	119	197.3	153	254.2	158	262.0	166	273.7
Carroll	80	167.9	82	172.4	38	80.0	69	145.6	74	156.5
Cheshire	212	275.6	210	273.3	188	245.4	235	308.7	232	305.6
Coos	47	143.8	43	134.0	62	193.8	53	167.4	70	224.3
Grafton	175	196.8	209	234.4	232	258.8	216	240.9	237	265.3
Hillsborough	1125	280.1	1055	261.8	1093	270.6	1285	317.1	1256	308.8
Manchester	528	480.7	546	495.4	524	474.7	626	566.8	624	566.1
Nashua	277	319.5	227	261.1	254	293.7	259	296.8	285	324.0
Merrimack	303	206.7	312	212.6	367	249.9	435	295.6	440	297.3
Rockingham	493	166.4	579	194.4	527	176.2	631	209.9	698	231.3
Strafford	390	314.9	354	285.2	348	279.3	355	282.6	420	331.2
Sullivan	70	161.1	107	248.4	124	288.5	126	292.3	92	214.1

Chlamydia by County and Rate¹, 2015

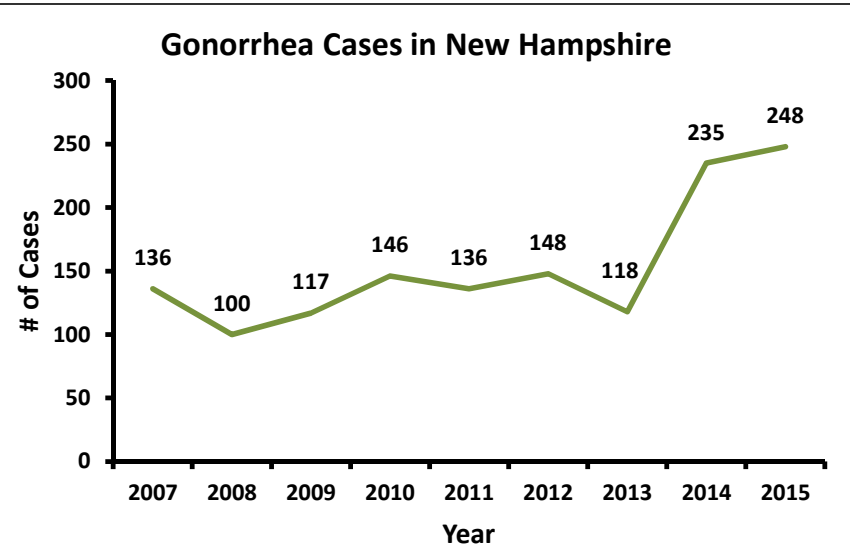


Chlamydia - Hillsborough County, 2011-2015

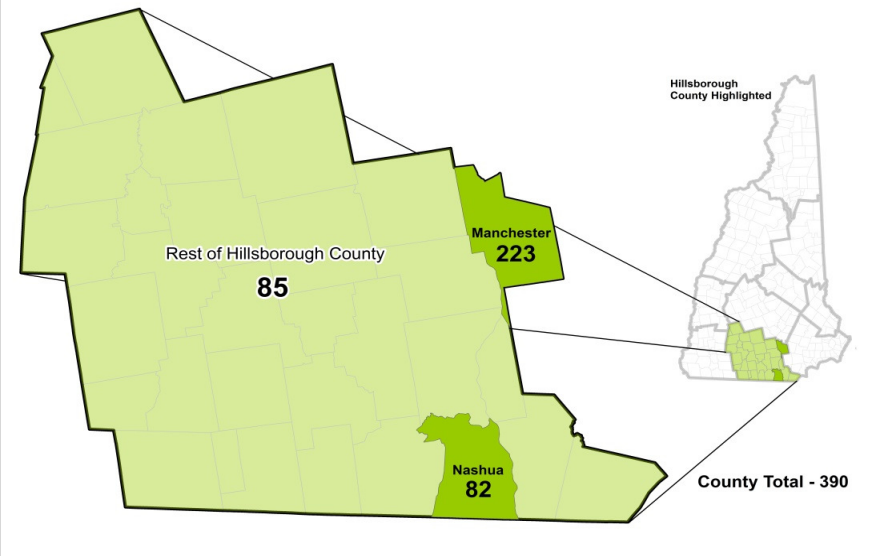


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 Gonorrhea

YEAR	2011		2012		2013		2014		2015	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	136	10.3	148	11.2	118	8.9	235	17.7	248	18.6
GENDER	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Male	77	11.8	84	12.9	69	10.6	141	21.5	182	27.7
Female	59	8.8	64	9.6	49	7.3	94	14.0	66	9.8
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	17	13.4	25	19.9	9	7.3	28	23.0	31	25.8
20-24	51	59.9	47	54.6	39	44.3	67	74.3	75	82.2
25-29	33	44.4	39	51.8	22	28.7	61	78.4	41	51.6
30-34	10	13.8	11	14.9	8	10.7	38	49.8	38	49.5
35-39	4	*	7	9.5	9	12.4	13	17.9	11	15.0
40-44	4	*	8	8.6	9	10.0	8	9.3	14	17.1
45-49	8	7.3	6	5.7	11	10.8	11	11.3	19	19.9
50-54	6	5.2	5	4.4	7	6.2	5	4.5	8	7.3
55-59	2	*	0	0.0	1	*	3	*	6	5.5
60+	1	*	0	0.0	3	*	1	*	5	1.6
RACE	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	111	8.9	112	9.0	98	7.9	173	14.3	183	14.6
Black	13	75.3	13	70.8	9	46.6	20	120.4	15	75.7
Asian/Pacific Isl.	0	0.0	0	0.0	1	*	2	*	6	16.9
AmInd/AlaskNat	0	0.0	1	*	2	*	0	0.0	0	0.0
Other/Unknown ²	12	61.5	22	110.5	8	39.0	40	63.5	44	202.4
ETHNICITY	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Hispanic ³	10	25.9	10	25.0	7	16.7	9	20.7	14	30.7
HIV INFECTED⁴	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Total	11	NC	13	NC	6	NC	14	NC	22	NC
COUNTY/CITY⁵	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Belknap	3	*	3	*	3	*	4	*	6	9.9
Carroll	2	*	1	*	2	*	2	*	2	*
Cheshire	3	*	5	6.5	9	11.7	17	22.3	27	35.6
Coos	1	*	1	*	1	*	1	*	1	*
Grafton	8	9.0	3	*	4	*	9	10.0	10	11.2
Hillsborough	65	16.2	67	16.6	55	13.6	92	22.7	111	27.3
Manchester	32	29.1	43	39.0	25	22.6	51	46.2	72	65.3
Nashua	19	21.9	9	10.4	15	17.3	18	20.6	21	23.9
Merrimack	16	10.9	21	14.3	12	8.2	21	14.3	24	16.2
Rockingham	30	10.1	22	7.4	20	6.7	47	15.6	36	11.9
Strafford	8	6.5	21	16.9	12	9.6	34	27.1	26	20.5
Sullivan	0	0.0	4	*	0	0.0	8	18.6	5	11.6



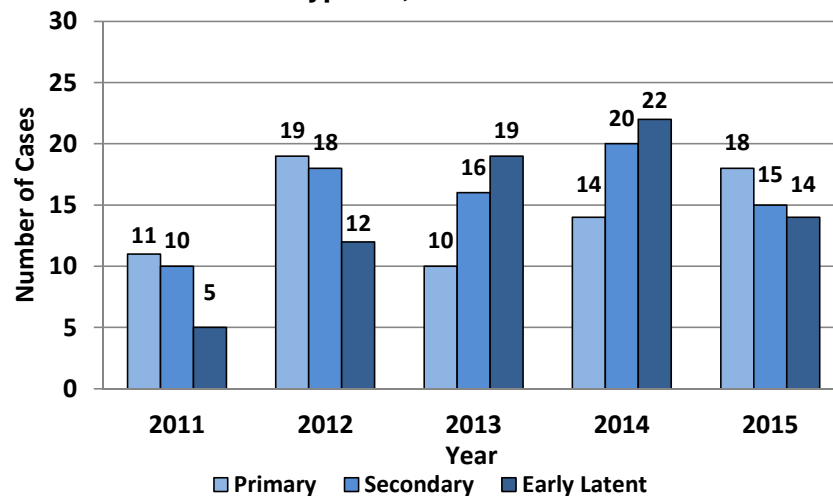
Gonorrhea - Hillsborough County, 2011-2015



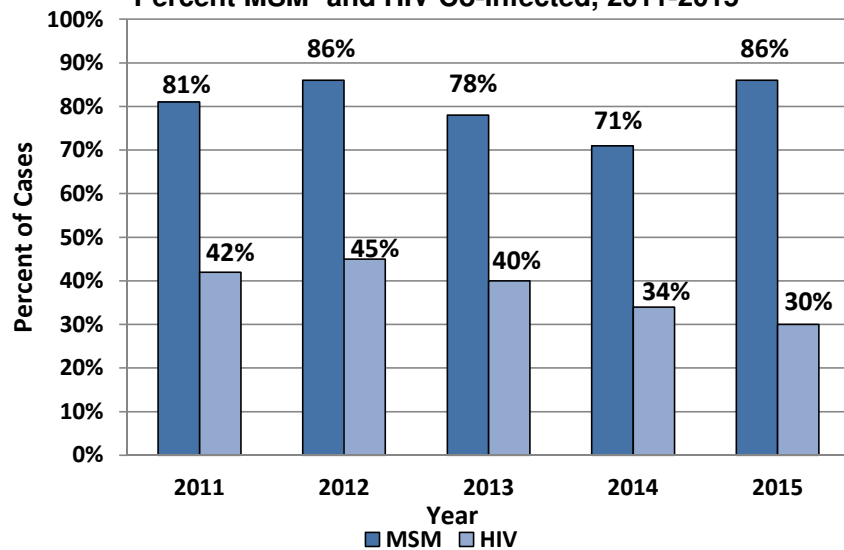
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Infectious Syphilis

YEAR	2011		2012		2013		2014		2015	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	26	2.0	49	3.7	45	3.4	56	4.2	47	3.5
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	25	3.8	49	7.5	42	6.4	47	7.2	43	6.5
Female	1	*	0	0.0	3	*	9	1.3	4	*
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	2	*	2	*	2	*
20-24	7	8.2	8	9.3	6	6.8	10	11.1	6	6.6
25-29	2	*	7	9.3	5	6.5	3	*	9	11.3
30-34	2	*	5	6.8	8	10.7	12	15.7	10	13.0
35-39	1	*	4	*	7	9.7	4	*	7	9.5
40-44	4	*	5	4.4	5	5.6	3	*	3	*
45-49	5	4.6	12	11.3	3	*	11	11.3	3	*
50-54	3	*	5	4.4	6	5.3	6	5.3	3	*
55-59	1	*	3	*	1	*	2	*	1	*
60+	1	*	0	0.0	2	*	3	*	3	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	25	2.0	42	3.4	38	3.0	50	4.1	40	3.2
Black	1	*	4	*	3	*	2	*	1	*
Asian/Pacific Isl.	0	0.0	1	*	0	0.0	1	*	0	0.0
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	0	0.0	2	*	4	*	3	*	6	27.6
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	3	*	1	*	2	*	3	*	4	*
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	11	NC	22	NC	18	NC	19	NC	13	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	1	*	1	*	1	*	0	0.0	2	*
Carroll	1	*	0	0.0	1	*	0	0.0	1	*
Cheshire	1	*	0	0.0	2	*	1	*	1	*
Coos	2	*	0	0.0	0	0.0	0	0.0	1	*
Grafton	2	*	3	*	2	*	3	*	4	*
Hillsborough	3	*	25	6.2	15	3.7	25	6.2	14	3.4
<i>Manchester</i>	1	*	16	14.5	8	7.2	16	14.5	9	8.2
<i>Nashua</i>	0	0.0	3	*	6	6.9	5	5.7	4	*
Merrimack	5	3.4	5	3.4	2	*	3	*	1	*
Rockingham	5	1.7	13	4.4	15	5.0	18	6.0	18	6.0
Strafford	5	4.0	0	0.0	5	4.0	3	*	5	3.9
Sullivan	1	*	2	*	2	*	3	*	0	0.0

Cases of Primary, Secondary and Early Latent Syphilis, 2011-2015



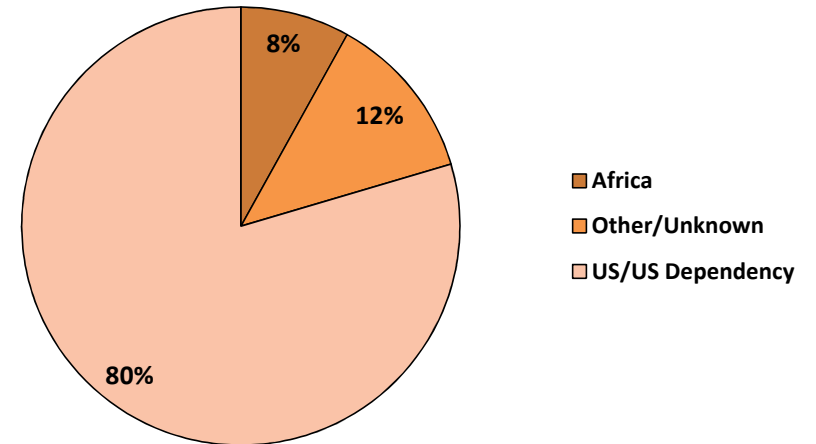
Primary, Secondary and Early Latent Syphilis: Percent MSM⁶ and HIV Co-Infected, 2011-2015



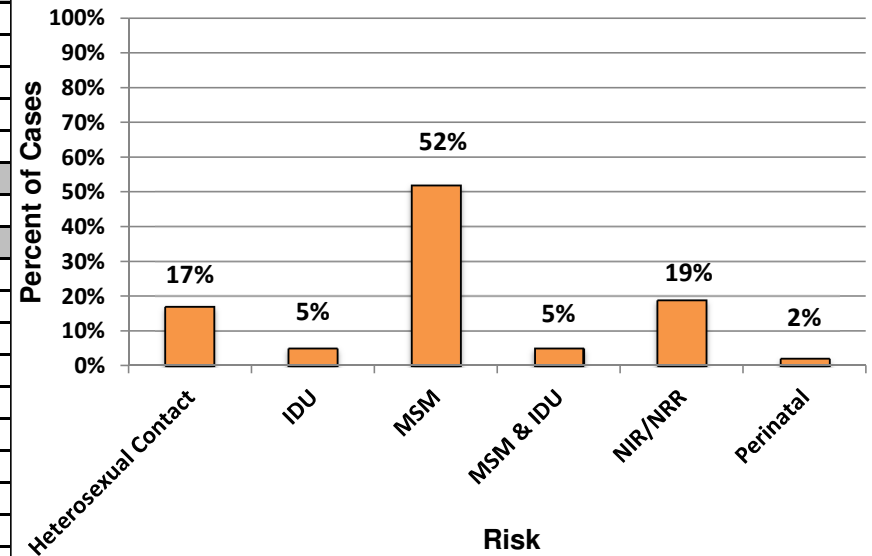
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 HIV

YEAR	2011		2012		2013		2014		2015	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁷	43	3.3	47	3.6	35	2.6	38	2.9	23	1.7
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	34	5.2	36	5.5	29	4.4	31	4.7	21	3.2
Female	9	1.3	11	1.6	6	0.9	7	1.0	2	*
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	3	*	0	0.0	1	*	0	0.0	0	0.0
13-19	2	*	1	*	1	*	1	*	1	*
20-24	5	5.9	7	8.1	4	*	7	7.8	5	5.5
25-29	3	*	6	8.0	8	10.4	5	6.4	2	*
30-34	5	6.9	5	6.8	3	*	6	7.9	4	*
35-39	2	*	5	6.8	2	*	3	*	2	*
40-44	3	*	8	8.6	2	*	2	*	2	*
45-49	6	5.5	5	4.7	5	4.9	4	*	0	0.0
50-54	8	7.0	5	4.4	5	4.4	5	4.5	4	*
55-59	4	*	4	*	2	*	4	*	3	*
60+	2	*	1	*	2	*	1	*	0	0.0
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	35	2.5	37	2.8	29	2.1	28	1.8	18	1.4
Black	6	34.8	8	43.5	3	*	9	54.2	3	*
Asian/Pacific Isl.	1	*	0	0.0	1	*	1	*	0	0.0
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	1	*	2	*	2	*	0	0.0	2	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ⁵	4	*	2	*	3	*	6	13.8	0	0.0
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	3	*	1	*	0	0.0	1	*	2	*
Carroll	2	*	1	*	0	0.0	1	*	0	0.0
Cheshire	2	*	1	*	2	*	1	*	0	0.0
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	3	*	4	*	1	*	3	*	2	*
Hillsborough	23	5.7	25	6.2	10	2.5	20	4.9	7	1.7
Merrimack	1	*	6	4.1	8	5.4	3	*	5	3.4
Rockingham	7	2.4	5	1.7	7	2.3	7	2.3	5	1.7
Strafford	1	*	3	*	4	*	2	*	2	*
Sullivan	1	*	1	*	3	*	0	0.0	0	0.0

HIV by Country/Region of Birth⁸, 2011-2015

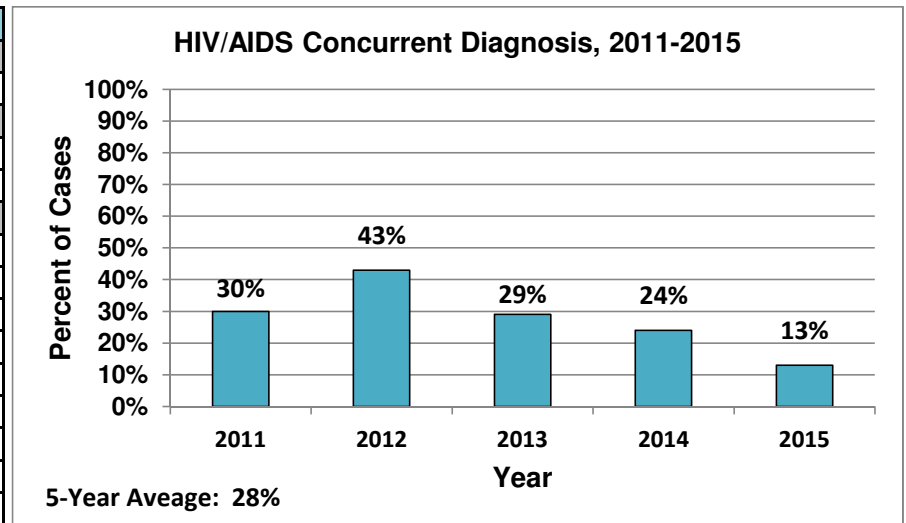


HIV by Risk⁶, 2011-2015



New Hampshire Infectious Disease Surveillance Section
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2011-2015
AIDS

YEAR	2011		2012		2013		2014		2015	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁹	24	1.8	27	2.0	17	1.3	16	1.2	15	1.1
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	20	3.1	20	3.1	14	2.1	11	1.7	12	1.8
Female	4	*	7	1.0	3	*	5	0.7	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	4	*	1	*	2	*	1	*	2	*
25-29	1	*	3	*	0	0.0	2	*	2	*
30-34	0	0.0	4	*	1	*	0	0.0	2	*
35-39	1	*	3	*	3	*	1	*	0	0.0
40-44	6	6.3	2	*	2	*	3	*	0	0.0
45-49	2	*	3	*	3	*	2	*	2	*
50-54	1	*	3	*	3	*	3	*	3	*
55-59	5	5.0	5	4.9	2	*	3	*	3	*
60+	4	*	3	*	1	*	1	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	22	1.5	22	1.6	12	0.7	11	0.7	12	0.8
Black	2	*	4	*	4	*	4	*	3	*
Asian/Pacific Isl.	0	0.0	0	0.0	1	*	1	*	0	0.0
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	0	0.0	1	*	0	0.0	0	0.0	0	0.0
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ⁵	3	*	2	*	3	*	3	*	2	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	0	0.0	0	0.0	2	*	0	0.0
Carroll	1	*	2	*	0	0.0	1	*	0	0.0
Cheshire	0	0.0	1	*	1	*	1	*	1	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	1	*	3	*	0	0.0	1	*	0	0.0
Hillsborough	16	4.0	12	3.0	7	1.7	8	2.0	7	1.7
Merrimack	1	*	4	*	4	*	0	0.0	3	*
Rockingham	4	*	3	*	2	*	3	*	2	*
Strafford	1	*	1	*	2	*	0	0.0	2	*
Sullivan	0	0.0	1	*	1	*	0	0.0	0	0.0



Concurrent diagnosis is defined as receiving an AIDS diagnosis within 12 months of an initial HIV diagnosis.

2015 concurrent diagnosis data is provisional and not yet validated.

2015 concurrent diagnosis data may change when data are finalized.

