



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2008-2012



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 October 14, 2013.

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: 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 (STDNIS), enhanced HIV AIDS Reporting System (eHARS), and Environmental Systems Research Institute (ESRI) ArcMap.

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New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report Highlights, 2008 - 2012

Chlamydia

1. Increasing case counts seen in the last 5 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 count seen in the last 5 years
2. Females and males both affected, though males account for more cases of diagnosed gonorrhea. Persons under age 30 are most affected
3. Hillsborough County, specifically the city of Manchester, bear the highest burden of disease

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

1. Relatively stable case count over the last five years (with the exception of 2012)
2. NH DPHS investigated the 49 diagnosed cases in 2012 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 2012 based on the definition of outbreak for STDs (≥ 2 standard deviations from the mean across various
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. Men who have sex with men 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 39%

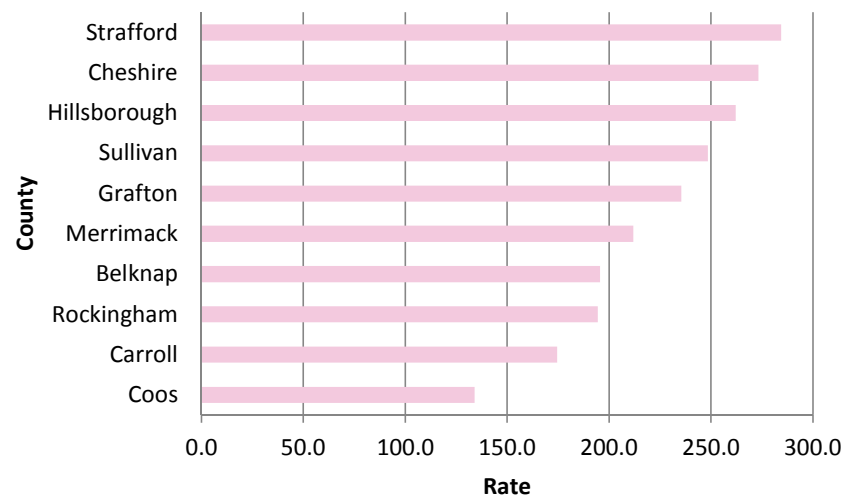
Resources

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>

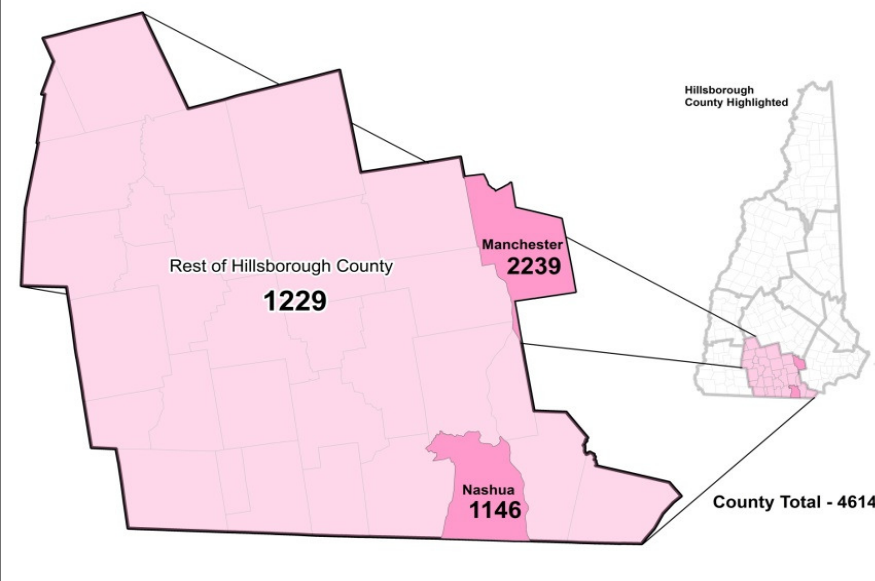
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report
 2008-2012
 Chlamydia

YEAR	2012		2011		2010		2009		2008	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	3070	232.4	3023	229.3	2481	188.5	2097	158.3	2092	158.3
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	919	140.9	835	128.3	654	100.7	558	85.5	558	85.6
Female	2151	321.8	2188	327.9	1827	273.9	1538	229.0	1534	228.9
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	0	0.0	0	0.0	0	0.0	2	*	2	*
13-19	923	733.5	961	755.1	770	692.0	572	441.8	665	504.7
20-24	1354	1574.4	1328	1559.8	1063	1257.3	939	1048.5	840	950.9
25-29	455	604.2	433	582.0	392	536.1	357	460.7	360	470.3
30-34	180	243.2	170	234.1	138	193.4	135	187.1	114	157.6
35-39	83	112.1	61	79.2	61	74.3	48	56.2	56	62.8
40-44	33	35.4	32	33.5	25	25.8	25	25.3	32	31.3
45-49	24	22.7	22	20.2	12	10.6	11	9.6	10	8.7
50-54	12	10.5	10	8.7	10	8.9	3	*	7	6.6
55-59	5	4.9	4	*	7	7.3	4	*	5	5.5
60+	1	*	2	*	3	*	1	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	2529	202.8	2260	181.2	1666	134.8	1664	131.9	1714	136.0
Black	115	625.9	85	492.6	77	512.1	65	358.8	71	407.4
Asian/Pacific Isl.	36	113.5	27	88.9	36	125.0	27	102.0	28	108.0
AmInd/AlaskNat	9	247.7	19	518.0	11	349.2	13	337.8	5	131.5
Other/Unknown ²	381	1913.3	632	3240.2	691	2066.1	328	2276.4	274	1947.5
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	121	302.2	112	290.5	91	247.9	109	295.7	113	318.3
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	6	*	16	*	6	*	3	*	4	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	118	195.6	128	212.5	84	139.8	77	125.5	89	145.2
Carroll	83	174.5	81	170.0	72	150.6	49	102.4	62	128.9
Cheshire	210	273.3	212	275.6	157	203.6	128	166.1	148	191.8
Coos	43	134.0	47	143.8	37	111.9	37	117.5	45	141.0
Grafton	210	235.5	174	195.7	155	173.9	126	146.0	108	125.2
Hillsborough	1056	262.1	1126	280.3	898	224.1	769	189.5	765	189.3
<i>Manchester</i>	544	493.6	526	478.9	420	383.3	374	340.2	375	343.6
<i>Nashua</i>	228	262.3	277	319.5	242	279.8	207	235.9	192	220.1
Merrimack	311	211.9	300	204.7	273	186.4	199	133.5	216	145.0
Rockingham	579	194.4	493	166.4	392	132.8	358	119.6	337	113.0
Strafford	353	284.4	392	316.5	324	263.1	256	207.1	243	197.7
Sullivan	107	248.4	70	161.1	89	203.5	98	229.6	79	184.5

Chlamydia by County and Rate¹, 2012



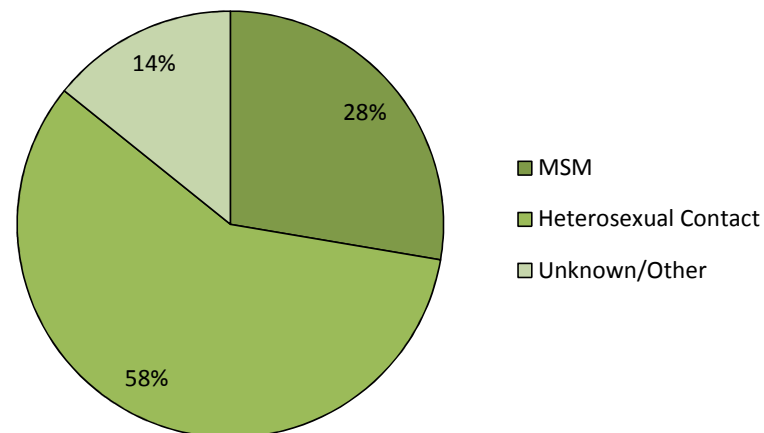
Chlamydia - Hillsborough County, 2008-2012



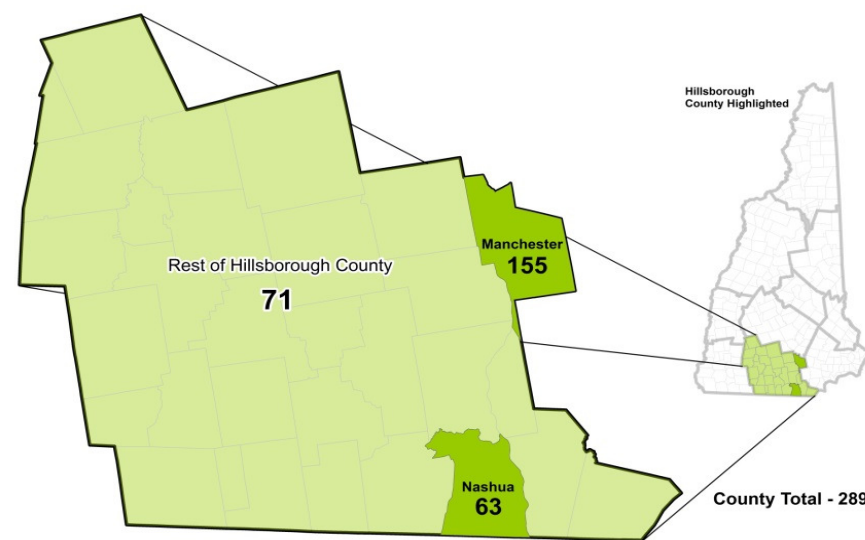
New Hampshire Infectious Disease Surveillance Section
 STD/HIV Summary Report
 2008-2012
 Gonorrhea

YEAR	2012		2011		2010		2009		2008	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	148	11.2	136	10.3	146	11.1	117	8.8	100	7.6
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	84	12.9	77	11.8	88	13.6	62	9.5	53	8.1
Female	64	9.6	59	8.8	58	8.7	55	8.2	47	7.0
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	25	19.9	17	13.4	24	21.6	23	17.8	20	15.2
20-24	47	54.6	51	59.9	44	52.0	29	32.4	33	37.4
25-29	39	51.8	33	44.4	31	42.4	21	27.1	16	20.9
30-34	11	14.9	10	13.8	12	16.8	7	9.7	17	23.5
35-39	7	9.5	4	*	5	6.1	11	12.9	5	5.6
40-44	8	8.6	4	*	9	9.3	10	10.1	5	4.9
45-49	6	5.7	8	7.3	11	9.7	7	6.1	1	*
50-54	5	4.4	6	5.2	3	*	4	*	2	*
55-59	0	0.0	2	*	2	*	5	5.4	1	*
60+	0	0.0	1	*	4	*	0	0.0	0	0.0
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	111	8.9	111	8.9	103	8.3	91	7.2	72	5.7
Black	13	70.8	13	75.3	14	93.1	6	33.1	10	57.4
Asian/Pacific Isl.	0	0.0	0	0.0	2	*	1	*	1	*
AmInd/AlaskNat	1	*	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	23	115.5	12	61.5	27	80.7	19	131.9	17	120.8
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	121	302.2	112	290.5	91	247.9	8	21.7	8	22.5
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	11	*	10	*	11	*	11	*	7	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	3	*	3	*	3	*	2	*	1	*
Carroll	1	*	2	*	0	0.0	5	10.4	5	10.4
Cheshire	4	*	3	*	13	16.9	4	*	2	*
Coos	1	*	1	*	1	*	5	15.9	2	*
Grafton	3	*	8	9.0	10	11.2	5	5.8	5	5.8
Hillsborough	67	16.6	66	16.4	61	15.2	49	12.1	46	11.4
<i>Manchester</i>	43	39.0	32	29.1	28	25.6	28	25.5	24	22.0
<i>Nashua</i>	9	10.4	19	21.9	17	19.7	6	6.8	12	13.8
Merrimack	22	15.0	16	10.9	13	8.9	14	9.4	9	6.0
Rockingham	22	7.4	29	9.8	30	10.2	20	6.7	22	7.4
Strafford	21	16.9	8	6.5	7	5.7	9	7.3	8	6.5
Sullivan	4	*	0	0.0	8	18.3	4	*	0	0.0

Gonorrhea by Risk⁶, 2008-2012



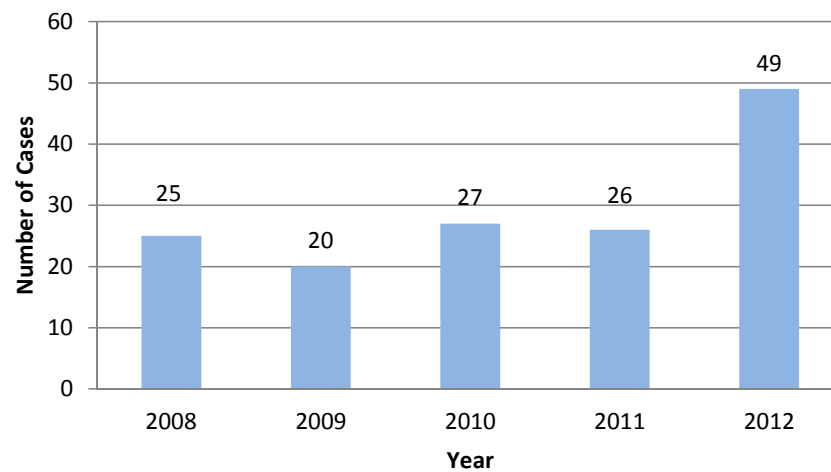
Gonorrhea - Hillsborough County, 2008-2012



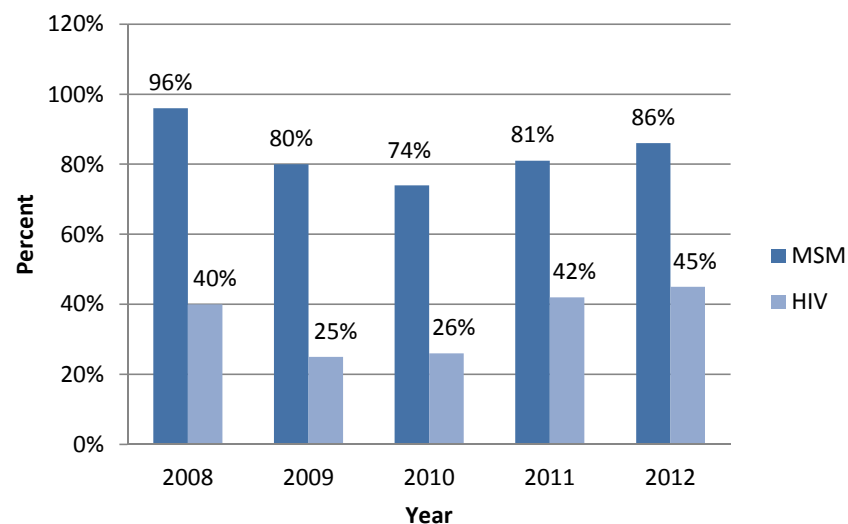
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2008-2012
Infectious Syphilis

YEAR	2012		2011		2010		2009		2008	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	49	3.7	26	2.0	27	2.1	20	1.5	25	1.9
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	49	7.5	25	3.8	26	4.0	20	3.1	25	3.8
Female	0	0.0	1	*	1	*	0	0.0	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	0	0.0	0	0.0	0	0.0	0	0.0	1	*
20-24	8	9.3	7	8.2	7	8.3	4	*	0	0.0
25-29	7	9.3	2	*	5	6.8	2	*	1	*
30-34	5	6.8	2	*	2	*	0	0.0	2	*
35-39	4	*	1	*	1	*	4	*	4	*
40-44	5	5.4	4	*	2	*	3	*	6	5.9
45-49	12	11.3	5	4.6	4	*	2	*	4	*
50-54	5	4.4	3	*	5	4.4	3	*	7	6.6
55-59	3	*	1	*	1	*	2	*	0	0.0
60+	0	0.0	1	*	0	0.0	0	0.0	0	0.0
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	42	3.4	25	2.0	24	1.9	18	1.4	25	2.0
Black	4	*	1	*	1	*	0	0.0	0	0.0
Asian/Pacific Isl.	1	3.2	0	0.0	2	*	1	*	0	0.0
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	2	*	0	0.0	0	0.0	1	*	0	0.0
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	1	*	3	*	2	*	0	0.0	0	0.0
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	22	*	11	*	7	*	5	*	10	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	1	*	1	*	1	*	1	*	0	0.0
Carroll	0	0.0	1	*	0	0.0	1	*	1	*
Cheshire	0	0.0	1	*	3	*	0	0.0	0	0.0
Coos	0	0.0	2	*	0	0.0	0	0.0	0	0.0
Grafton	3	*	2	*	2	*	0	0.0	2	*
Hillsborough	25	6.2	3	*	9	2.2	9	2.2	11	2.7
<i>Manchester</i>	16	14.5	1	*	5	4.6	2	*	5	4.6
<i>Nashua</i>	3	*	0	0.0	2	*	2	*	1	*
Merrimack	5	3.4	5	3.4	4	*	3	*	2	*
Rockingham	13	4.4	5	1.7	5	1.7	4	*	6	2.0
Strafford	0	0.0	5	4.0	3	*	2	*	2	*
Sullivan	2	*	1	*	0	0.0	0	0.0	1	*

Cases of Primary, Secondary and Early Latent Syphilis, 2008-2012



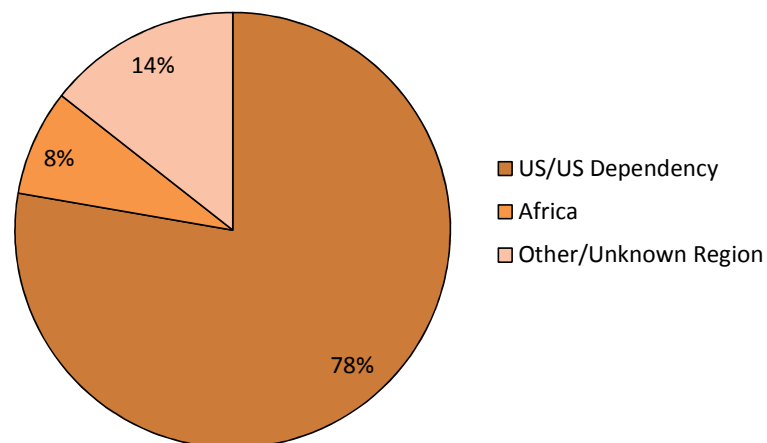
Primary, Secondary and Early Latent Syphilis: Percent MSM⁶ and HIV Co-Infected, 2008-2012



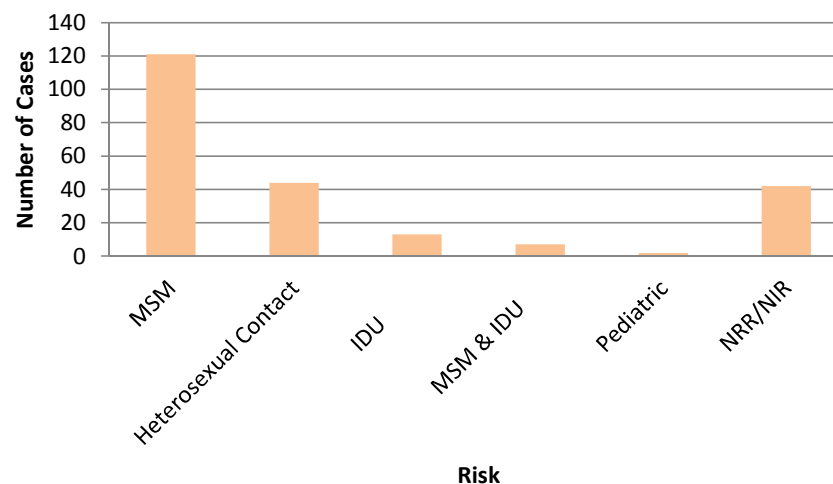
New Hampshire Infectious Disease Surveillance Section
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2008-2009
HIV

YEAR	2012		2011		2010		2009		2008	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	49	3.7	42	3.2	51	3.9	45	3.4	42	3.2
GENDER	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Male	38	5.8	33	5.1	46	7.1	35	5.4	32	4.9
Female	11	1.6	9	1.3	5	0.7	10	1.5	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	3	*	1	*	2	*	0	0.0
13-19	1	*	2	*	1	*	0	0.0	1	*
20-24	7	8.1	5	5.9	6	7.1	3	*	5	5.7
25-29	6	8.0	3	*	4	*	8	10.3	4	*
30-34	7	9.5	5	6.9	9	12.6	6	8.3	3	*
35-39	5	6.8	2	*	5	6.1	6	7.0	4	*
40-44	8	8.6	3	*	5	5.2	5	5.1	5	4.9
45-49	5	4.7	6	5.5	8	7.0	4	*	11	9.6
50-54	4	*	7	6.1	6	5.3	3	*	4	*
55-59	4	*	3	*	3	*	7	7.6	1	*
60+	2	*	3	*	3	*	1	*	4	*
RACE	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	36	2.9	30	2.4	39	3.2	31	2.5	26	2.1
Black	8	43.5	6	34.8	4	*	7	38.6	9	51.6
Asian/Pacific Isl.	1	*	1	*	3	*	0	0.0	1	*
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	4	*	5	25.6	5	15.0	7	48.6	6	42.6
ETHNICITY	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Hispanic ⁵	3	*	4	*	3	*	5	13.6	5	14.1
COUNTY/CITY⁵	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Belknap	1	*	3	*	0	0.0	0	0.0	2	*
Carroll	1	*	2	*	1	*	1	*	0	0.0
Cheshire	1	*	2	*	0	0.0	2	*	1	*
Cood	0	0.0	0	0.0	0	0.0	0	0.0	1	*
Grafton	4	*	3	*	4	*	4	*	4	*
Hillsborough	26	6.5	22	5.5	17	4.2	19	4.7	21	5.2
Merrimack	6	4.1	1	*	7	4.8	9	6.0	7	4.7
Rockingham	5	1.7	7	2.4	12	4.1	6	2.0	4	*
Strafford	4	*	1	*	9	7.3	4	*	2	*
Sullivan	1	*	1	*	1	*	0	0.0	0	0.0

HIV by Country/Region of Birth⁸



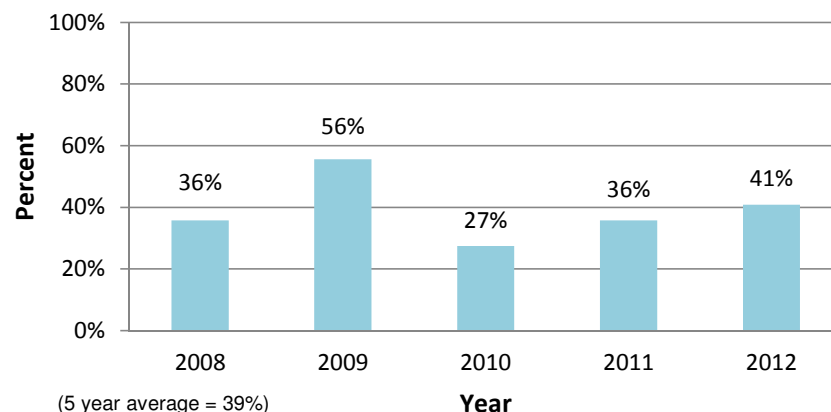
HIV by Risk⁶, 2008-2012



New Hampshire Infectious Disease Surveillance Section
STD/HIV Summary Report
2008-2012
AIDS

YEAR	2012		2011		2010		2009		2008	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	27	2.0	24	1.8	30	2.3	39	2.9	25	1.9
GENDER	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Male	20	3.1	20	3.1	24	3.7	31	4.7	17	2.6
Female	7	1.0	4	*	6	0.9	8	1.2	8	1.2
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	0	0.0	0	0.0	0	0.0	1	*	0	0.0
20-24	1	*	4	*	2	*	1	*	1	*
25-29	3	*	1	*	0	0.0	4	*	1	*
30-34	4	*	0	0.0	3	*	4	*	4	*
35-39	3	*	1	*	3	*	6	7.0	1	*
40-44	2	*	6	6.3	4	*	8	8.1	4	*
45-49	3	*	2	*	10	8.8	6	5.3	6	5.2
50-54	2	*	1	*	3	*	3	*	4	*
55-59	5	4.9	4	*	2	*	5	5.4	0	0.0
60+	4	*	5	1.8	3	*	1	*	4	*
RACE	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
White	20	1.6	19	1.5	22	1.8	29	2.3	16	1.3
Black	4	*	2	*	1	*	5	27.6	4	*
Asian/Pacific Isl.	0	0.0	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	*	3	*	6	17.9	5	34.7	4	*
ETHNICITY	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Hispanic ⁵	2	*	3	*	3	*	3	*	4	*
COUNTY/CITY⁵	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
Belknap	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Carroll	2	*	1	*	1	*	0	0.0	0	0.0
Cheshire	1	*	0	0.0	2	*	2	*	3	*
Cood	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	3	*	1	*	3	*	3	*	3	*
Hillsborough	12	3.0	16	4.0	12	3.0	21	5.2	10	2.5
Merrimack	4	*	1	*	1	*	5	3.4	3	*
Rockingham	3	*	4	*	6	2.0	4	*	1	*
Strafford	1	*	1	*	4	*	4	*	4	*
Sullivan	1	*	0	0.0	1	*	0	0.0	1	*

HIV/AIDS Concurrent Diagnosis, 2008-2012



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

2012 concurrent diagnosis data is provisional and not yet validated.

2012 concurrent diagnosis data may change when data are finalized.

AIDS By Risk⁶, 2008-2012

