



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2009-2013



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 10, 2014.

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.

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New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report Highlights, 2009 - 2013

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. Varying case counts over the last 5 years, average of 133 cases per year
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, bears the highest burden of disease

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

1. Case count low 2009-2011, higher case counts in 2012 and 2013
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 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

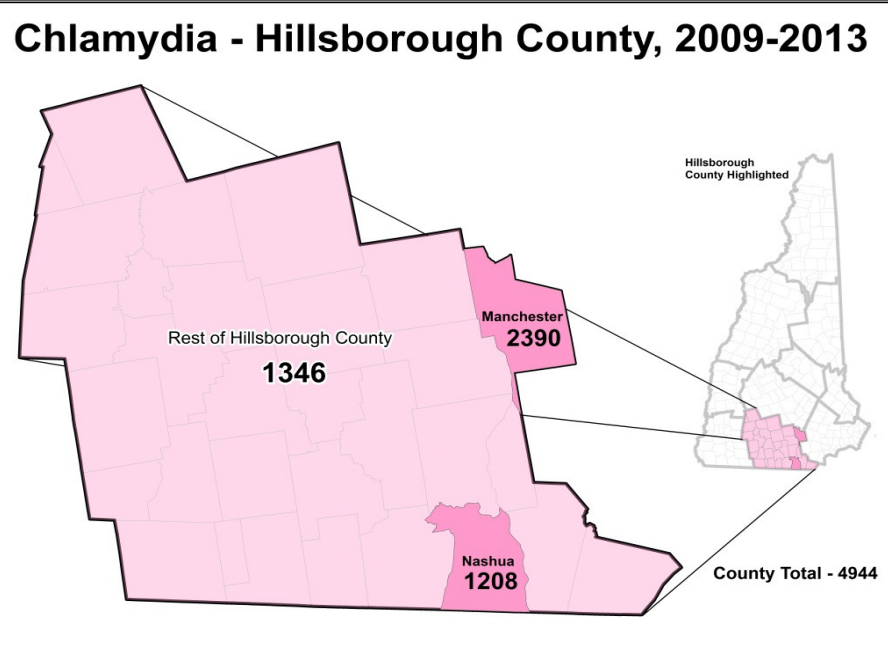
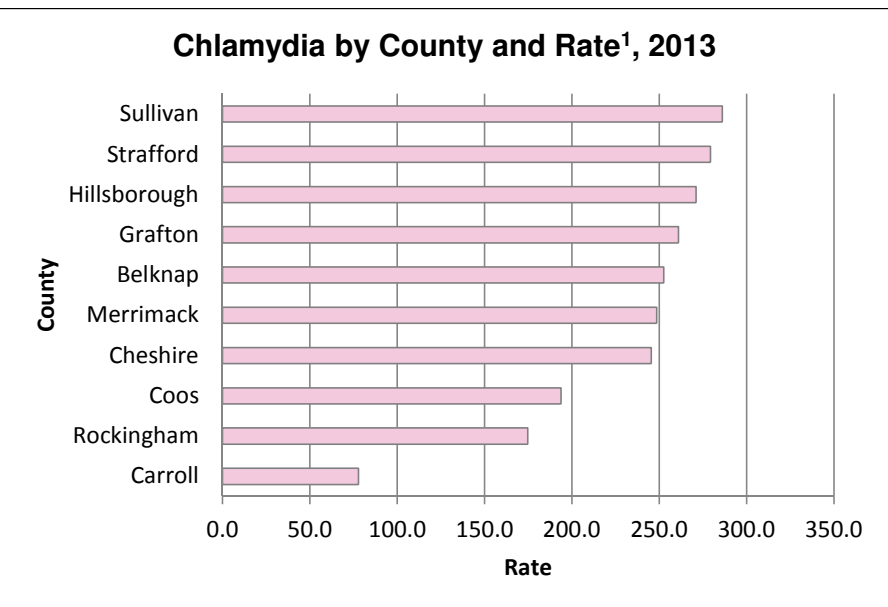
1. Risk factors identified for AIDS diagnoses are very similar to the risk factors identified for HIV diagnoses
2. The percent of patients concurrently diagnosed with AIDS (AIDS diagnosis within 12 months of their first HIV diagnosis) has varied over the past 5 years with the 5-year average being 37%

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
 2009-2013
 Chlamydia

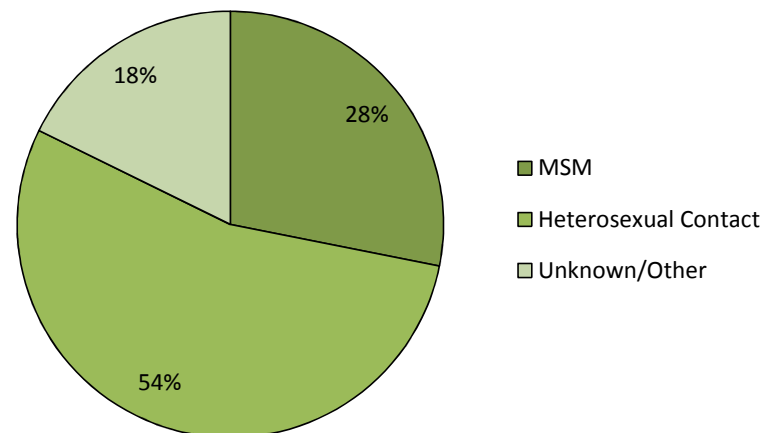
YEAR	2013		2012		2011		2010		2009	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	3127	236.3	3070	232.4	3023	229.3	2481	188.5	2097	158.3
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	931	142.4	918	140.7	835	128.3	654	100.7	558	85.5
Female	2196	327.9	2152	321.9	2188	327.9	1827	273.9	1539	229.1
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	1	*	0	0.0	0	0.0	0	0.0	2	*
13-19	823	665.5	923	733.5	961	755.1	770	692.0	572	441.8
20-24	1449	1644.7	1354	1574.4	1328	1559.8	1063	1257.3	939	1048.5
25-29	472	616.4	455	604.2	433	582.0	392	536.1	357	460.7
30-34	210	280.0	180	243.2	170	234.1	138	193.4	135	187.1
35-39	69	95.3	83	112.1	61	79.2	61	74.3	48	56.2
40-44	50	55.7	33	35.4	32	33.5	25	25.8	25	25.3
45-49	27	26.6	24	22.7	22	20.2	12	10.6	11	9.6
50-54	19	16.8	12	10.5	10	8.7	10	8.9	3	*
55-59	5	4.7	5	4.9	4	*	7	7.3	4	*
60+	2	*	1	*	2	*	3	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	2558	205.1	2535	203.3	2277	182.5	1676	135.6	1668	132.2
Black	114	590.2	115	625.9	85	492.6	77	512.1	65	358.8
Asian/Pacific Isl.	26	79.6	36	113.5	27	88.9	36	125.0	27	102.0
AmInd/AlaskNat	11	292.0	9	247.7	18	490.7	10	317.5	13	337.8
Other/Unknown ²	418	2035.6	375	1883.2	616	3158.2	682	2039.2	324	2248.6
ETHNICITY	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹
Hispanic ³	157	373.9	121	302.2	112	290.5	91	247.9	110	298.4
HIV INFECTED⁴	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹	Rate¹
Total	7	NC	8	NC	11	NC	5	NC	3	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	152	252.6	118	195.6	128	212.5	84	139.8	77	125.5
Carroll	37	77.9	83	174.5	81	170.0	72	150.6	49	102.4
Cheshire	188	245.4	210	273.3	212	275.6	157	203.6	128	166.1
Coos	62	193.8	43	134.0	47	143.8	37	111.9	37	117.5
Grafton	234	261.1	210	235.5	174	195.7	155	173.9	126	146.0
Hillsborough	1095	271.0	1056	262.1	1126	280.3	898	224.1	769	189.5
<i>Manchester</i>	524	474.7	545	494.5	527	479.8	420	383.3	374	340.2
<i>Nashua</i>	254	293.7	228	262.3	276	318.3	242	279.8	208	237.1
Merrimack	365	248.6	311	211.9	300	204.7	273	186.4	199	133.5
Rockingham	523	174.8	579	194.4	493	166.4	392	132.8	358	119.6
Strafford	348	279.3	353	284.4	392	316.5	324	263.1	256	207.1
Sullivan	123	286.2	107	248.4	70	161.1	89	203.5	98	229.6



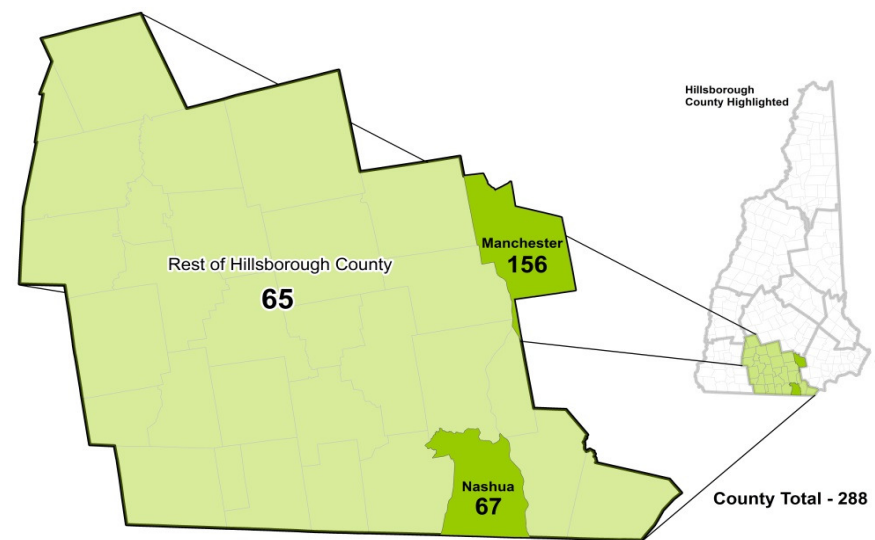
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 Gonorrhea

YEAR	2013		2012		2011		2010		2009	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	118	8.9	148	11.2	136	10.3	146	11.1	117	8.8
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	68	10.4	84	12.9	77	11.8	88	13.6	62	9.5
Female	50	7.5	64	9.6	59	8.8	58	8.7	55	8.2
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	25	19.9	17	13.4	24	21.6	23	17.8
20-24	39	44.3	47	54.6	51	59.9	44	52.0	29	32.4
25-29	22	28.7	39	51.8	33	44.4	31	42.4	21	27.1
30-34	8	10.7	11	14.9	10	13.8	12	16.8	7	9.7
35-39	9	12.4	7	9.5	4	*	5	6.1	11	12.9
40-44	9	10.0	8	8.6	4	*	9	9.3	10	10.1
45-49	11	10.8	6	5.7	8	7.3	11	9.7	7	6.1
50-54	7	6.2	5	4.4	6	5.2	3	*	4	*
55-59	1	*	0	0.0	2	*	2	*	5	5.4
60+	3	*	0	0.0	1	*	4	*	0	0.0
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	97	7.8	112	9.0	111	8.9	104	8.4	92	7.3
Black	9	46.6	13	70.8	13	75.3	14	93.1	6	33.1
Asian/Pacific Isl.	1	*	0	0.0	0	0.0	2	*	1	*
AmInd/AlaskNat	2	*	1	*	0	0.0	0	0.0	0	0.0
Other/Unknown ²	9	43.8	22	110.5	12	61.5	26	77.7	18	124.9
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	7	16.7	10	25.0	10	25.9	5	13.6	7	19.0
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	6	NC	8	NC	7	NC	8	NC	5	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	3	*	3	*	3	*	3	*	2	*
Carroll	2	*	1	*	2	*	0	0.0	5	10.4
Cheshire	9	11.7	5	6.5	3	*	13	16.9	4	*
Coos	1	*	1	*	1	*	1	*	5	15.9
Grafton	4	*	3	*	8	9.0	10	11.2	5	5.8
Hillsborough	55	13.6	67	16.6	66	16.4	61	15.2	49	12.1
<i>Manchester</i>	25	22.6	43	39.0	32	29.1	28	25.6	28	25.5
<i>Nashua</i>	15	17.3	9	10.4	19	21.9	17	19.7	7	8.0
Merrimack	12	8.2	21	14.3	16	10.9	13	8.9	14	9.4
Rockingham	20	6.7	22	7.4	29	9.8	30	10.2	20	6.7
Strafford	12	9.6	21	16.9	8	6.5	7	5.7	9	7.3
Sullivan	0	0.0	4	*	0	0.0	8	18.3	4	*

Gonorrhea by Risk⁶, 2009-2013



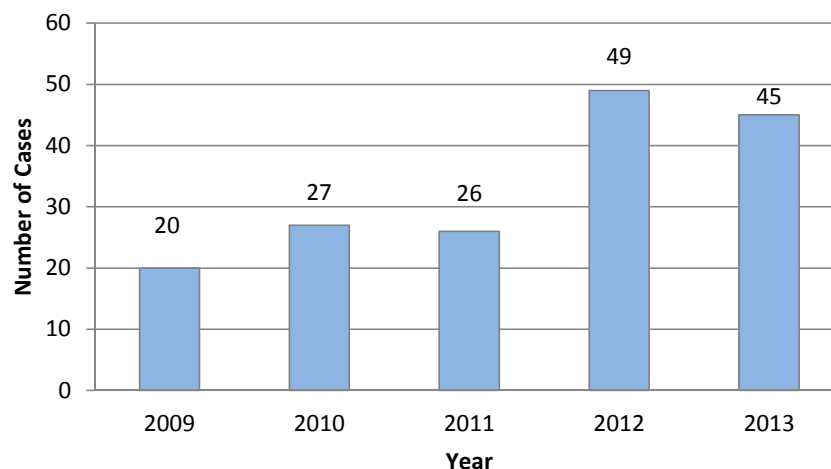
Gonorrhea - Hillsborough County, 2009-2013



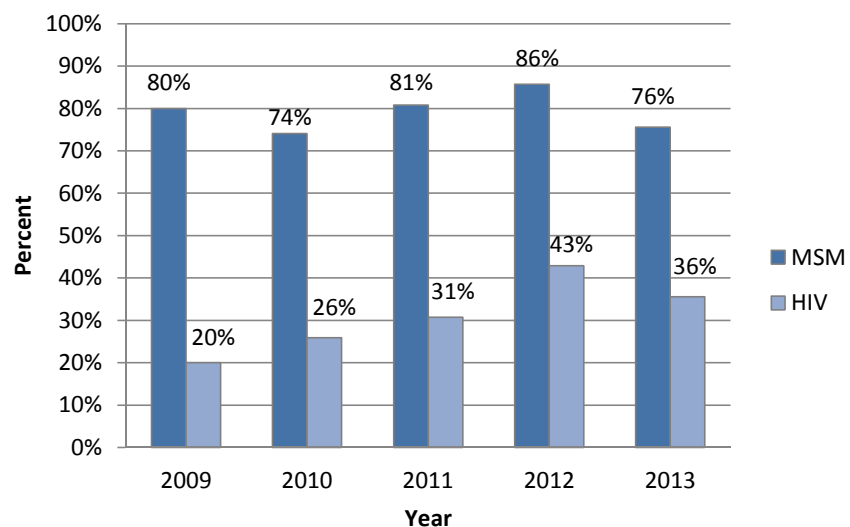
New Hampshire Infectious Disease Surveillance Section
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 Infectious Syphilis

YEAR	2013		2012		2011		2010		2009	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	45	3.4	49	3.7	26	2.0	27	2.1	20	1.5
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	42	6.4	49	7.5	25	3.8	26	4.0	20	3.1
Female	3	*	0	0.0	1	*	1	*	0	0.0
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	2	*	0	0.0	0	0.0	0	0.0	0	0.0
20-24	6	6.8	8	9.3	7	8.2	7	8.3	4	*
25-29	5	6.5	7	9.3	2	*	5	6.8	2	*
30-34	8	10.7	5	6.8	2	*	2	*	0	0.0
35-39	7	9.7	4	*	1	*	1	*	4	*
40-44	5	5.6	5	5.4	4	*	2	*	3	*
45-49	3	*	12	11.3	5	4.6	4	*	2	*
50-54	6	5.3	5	4.4	3	*	5	4.4	3	*
55-59	1	*	3	*	1	*	1	*	2	*
60+	2	*	0	0.0	1	*	0	0.0	0	0.0
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	38	3.0	42	3.4	25	2.0	24	1.9	18	1.4
Black	3	*	4	*	1	*	1	*	0	0.0
Asian/Pacific Isl.	0	0.0	1	*	0	0.0	2	*	1	*
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	4	*	2	*	0	0.0	0	0.0	1	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	2	*	1	*	3	*	2	*	0	0.0
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	17	NC	21	NC	8	NC	7	NC	4	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	1	*	1	*	1	*	1	*	1	*
Carroll	1	*	0	0.0	1	*	0	0.0	1	*
Cheshire	2	*	0	0.0	1	*	3	*	0	0.0
Coos	0	0.0	0	0.0	2	*	0	0.0	0	0.0
Grafton	2	*	3	*	2	*	2	*	0	0.0
Hillsborough	15	3.7	25	6.2	3	*	9	2.2	9	2.2
<i>Manchester</i>	8	7.2	16	14.5	1	*	5	4.6	2	*
<i>Nashua</i>	6	6.9	3	*	0	0.0	2	*	2	*
Merrimack	2	*	5	3.4	5	3.4	4	*	3	*
Rockingham	15	5.0	13	4.4	5	1.7	5	1.7	4	*
Strafford	5	4.0	0	0.0	5	4.0	3	*	2	*
Sullivan	2	*	2	*	1	*	0	0.0	0	0.0

Cases of Primary, Secondary and Early Latent Syphilis, 2009-2013



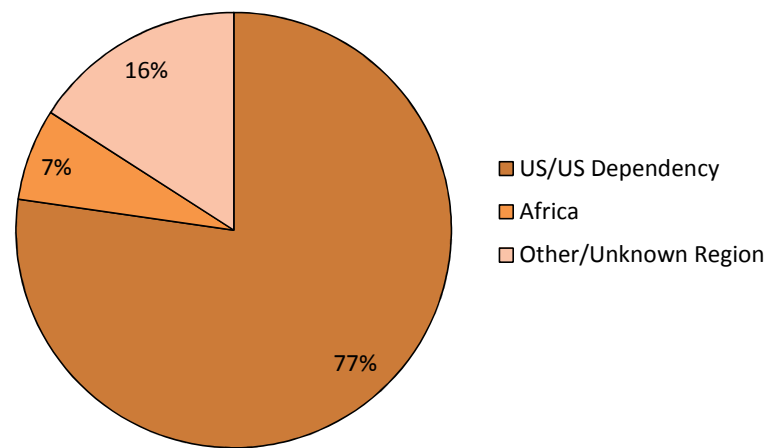
Primary, Secondary and Early Latent Syphilis: Percent MSM⁶ and HIV Co-Infected, 2009-2013



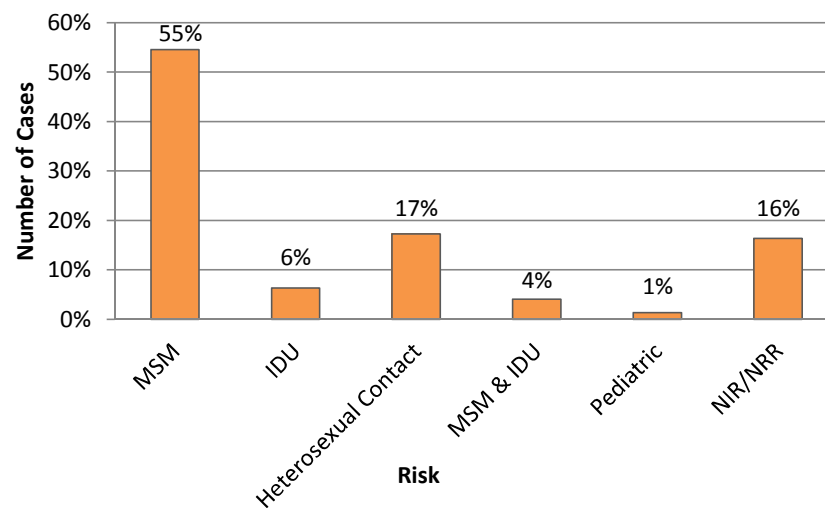
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HIV

YEAR	2013		2012		2011		2010		2009	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	34	2.6	48	3.6	42	3.2	50	3.8	43	3.2
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	28	4.3	37	5.7	34	5.2	45	6.9	33	5.1
Female	6	0.9	11	1.6	8	1.2	5	0.7	10	1.5
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	1	*	0	0.0	3	*	1	*	2	*
13-19	1	*	1	*	2	*	1	*	0	0.0
20-24	4	*	7	8.1	5	5.9	6	7.1	3	*
25-29	8	10.4	6	8.0	3	*	4	*	8	10.3
30-34	3	*	6	8.1	4	*	8	11.2	5	6.9
35-39	2	*	5	6.8	2	*	5	6.1	6	7.0
40-44	2	*	8	8.6	3	*	5	5.2	5	5.1
45-49	5	4.9	5	4.7	6	5.5	8	7.0	4	*
50-54	4	*	5	4.4	8	7.0	6	5.3	4	*
55-59	2	*	4	*	4	*	3	*	5	5.4
60+	2	*	1	*	2	*	3	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	26	2.1	36	2.9	30	2.4	38	3.1	30	2.4
Black	4	*	8	43.5	6	34.8	4	*	6	33.1
Asian/Pacific Isl.	1	*	1	*	1	*	3	*	0	0.0
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	3	*	4	*	5	25.6	5	15.0	7	48.6
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ⁵	2	*	3	*	4	*	3	*	5	13.6
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	1	*	2	*	0	0.0	0	0.0
Carroll	0	0.0	1	*	2	*	1	*	1	*
Cheshire	2	*	1	*	2	*	0	0.0	2	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	1	*	4	*	3	*	4	*	4	*
Hillsborough	10	2.5	26	6.5	23	5.7	17	4.2	18	4.4
Merrimack	8	5.4	6	4.1	1	*	7	4.8	8	5.4
Rockingham	7	2.3	5	1.7	7	2.4	11	3.7	6	2.0
Strafford	3	*	3	*	1	*	9	7.3	4	*
Sullivan	3	*	1	*	1	*	1	*	0	0.0

HIV by Country/Region of Birth⁸, 2009-2013



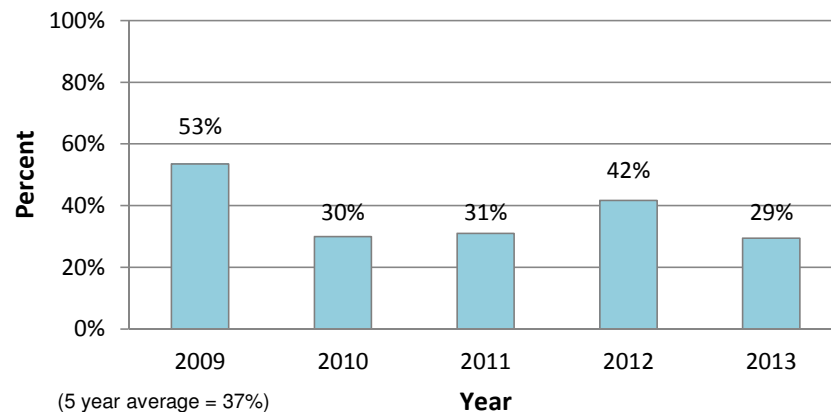
HIV by Risk⁶, 2009-2013



New Hampshire Infectious Disease Surveillance Section
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 AIDS

YEAR	2013		2012		2011		2010		2009	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	15	1.1	27	2.0	24	1.8	30	2.3	38	2.9
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	12	1.8	20	3.1	20	3.1	24	3.7	31	4.7
Female	3	*	7	1.0	4	*	6	0.9	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	2	*	1	*	4	*	2	*	1	*
25-29	0	0.0	3	*	1	*	1	*	4	*
30-34	1	*	4	*	0	0.0	4	*	4	*
35-39	1	*	3	*	1	*	3	*	6	7.0
40-44	2	*	2	*	6	6.3	5	5.2	8	8.1
45-49	3	*	3	*	2	*	8	7.0	6	5.3
50-54	3	*	3	*	1	*	2	*	4	*
55-59	2	*	5	4.9	5	5.0	2	*	4	*
60+	1	*	3	*	4	*	3	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	9	0.7	20	1.6	19	1.5	22	1.8	28	2.2
Black	3	*	4	*	2	*	1	*	5	27.6
Asian/Pacific Isl.	0	0.0	0	0.0	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	*	3	*	6	17.9	5	34.7
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	0	0.0	0	0.0
Carroll	0	0.0	2	*	1	*	1	*	0	0.0
Cheshire	1	*	1	*	0	0.0	2	*	2	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	0	0.0	3	*	1	*	3	*	3	*
Hillsborough	6	1.5	12	3.0	16	4.0	12	3.0	20	4.9
Merrimack	4	*	4	*	1	*	1	*	5	3.4
Rockingham	2	*	3	*	4	*	6	2.0	4	*
Strafford	1	*	1	*	1	*	4	*	4	*
Sullivan	1	*	1	*	0	0.0	1	*	0	0.0

HIV/AIDS Concurrent Diagnosis, 2009-2013



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

2013 concurrent diagnosis data is provisional and not yet validated.

2013 concurrent diagnosis data may change when data are finalized.

AIDS By Risk⁶, 2009-2013

