



New Hampshire STD/HIV Surveillance Program 5 Year Data Summary Report 2010-2014



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 5, 2015.

- 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, 2010 - 2014

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. NH DPHS investigated the 235 diagnosed cases in 2014 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 2014 based on the definition of outbreak for STDs (≥ 2 standard deviations from the mean across various characteristics)
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 2010 and 2011, higher case counts 2012 - 2014
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 33%

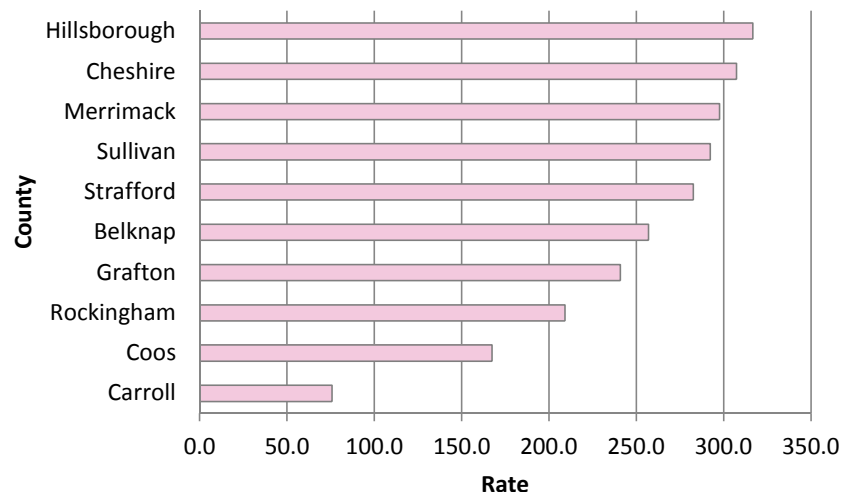
Resources

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>

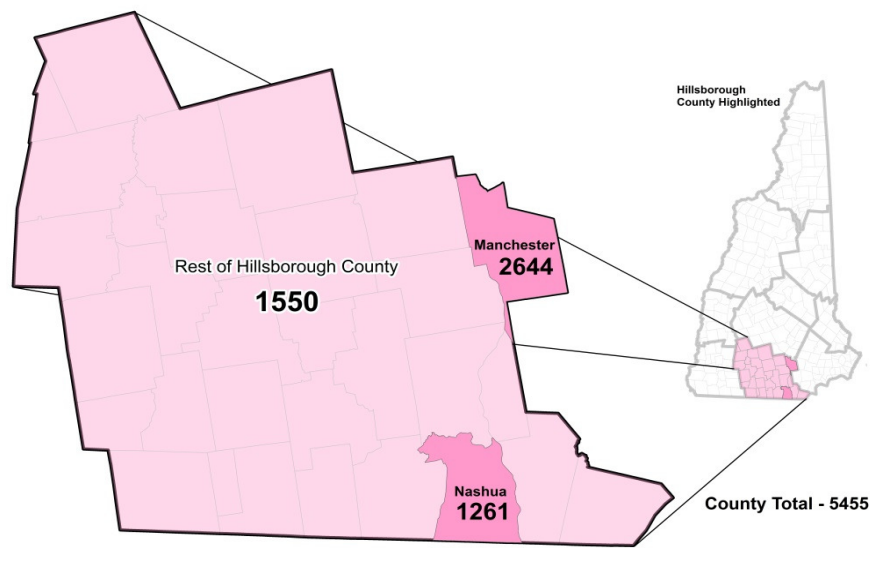
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 Chlamydia

YEAR	2010		2011		2012		2013		2014	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	2481	188.5	3023	229.3	3070	232.4	3132	236.7	3558	268.2
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	653	100.6	836	128.4	918	140.7	933	142.7	1123	171.3
Female	1828	274.0	2187	327.7	2152	321.9	2199	328.3	2435	362.7
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	770	692.0	961	755.1	923	733.5	824	666.3	791	648.4
20-24	1063	1257.3	1328	1559.8	1354	1574.4	1450	1645.8	1581	1753.6
25-29	392	536.1	433	582.0	455	604.2	474	619.0	666	855.5
30-34	138	193.4	170	234.1	180	243.2	210	280.0	259	339.7
35-39	61	74.3	61	79.2	83	112.1	69	95.3	121	166.5
40-44	25	25.8	32	33.5	33	35.4	51	56.8	61	71.1
45-49	12	10.6	22	20.2	24	22.7	27	26.6	35	35.8
50-54	10	8.9	10	8.7	12	10.5	19	16.8	25	22.3
55-59	7	7.3	4	*	5	4.9	5	4.7	12	11.1
60+	3	*	2	*	1	*	2	*	7	2.3
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	1686	136.4	2287	183.3	2539	203.6	2567	205.8	2508	207.1
Black	77	512.1	86	498.4	116	631.3	113	585.0	135	812.6
Asian/Pacific Isl.	37	128.5	28	92.2	36	113.5	26	79.6	39	117.1
AmInd/AlaskNat	10	317.5	18	490.7	9	247.7	11	292.0	12	425.5
Other/Unknown ²	671	2006.3	604	3096.6	370	1858.1	415	2021.0	864	1371.3
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	91	247.9	112	290.5	121	302.2	157	373.9	149	342.2
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	6	NC	14	NC	9	NC	7	NC	28	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	84	139.8	128	212.5	119	197.3	151	250.9	155	257.0
Carroll	72	150.6	80	167.9	82	172.4	38	80.0	36	76.0
Cheshire	156	202.3	212	275.6	210	273.3	188	245.4	234	307.4
Coos	37	111.9	47	143.8	43	134.0	62	193.8	53	167.4
Grafton	155	173.9	175	196.8	209	234.4	234	261.1	216	240.9
Hillsborough	899	224.3	1125	280.1	1055	261.8	1093	270.6	1283	316.6
<i>Manchester</i>	420	383.3	528	480.7	546	495.4	524	474.7	626	566.8
<i>Nashua</i>	244	282.1	277	319.5	227	261.1	254	293.7	259	296.8
Merrimack	273	186.4	303	206.7	312	212.6	367	249.9	438	297.6
Rockingham	393	133.1	493	166.4	579	194.4	527	176.2	629	209.2
Strafford	323	262.3	390	314.9	354	285.2	348	279.3	355	282.6
Sullivan	89	203.5	70	161.1	107	248.4	124	288.5	126	292.3

Chlamydia by County and Rate¹, 2014



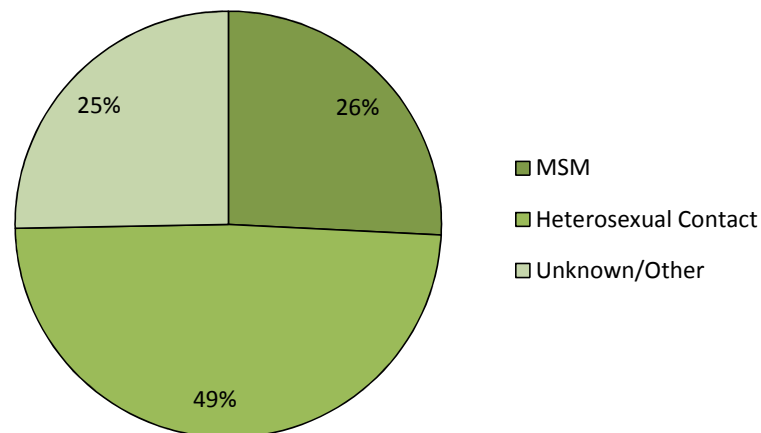
Chlamydia - Hillsborough County, 2010-2014



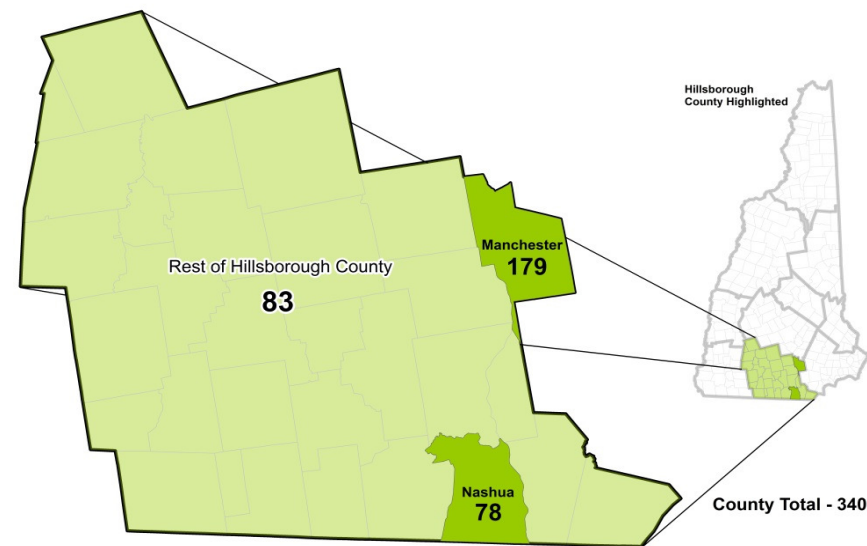
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 Gonorrhea

YEAR	2010		2011		2012		2013		2014	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	146	11.1	136	10.3	148	11.2	118	8.9	235	17.7
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	88	13.6	77	11.8	84	12.9	69	10.6	141	21.5
Female	58	8.7	59	8.8	64	9.6	49	7.3	94	14.0
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	1	*	0	0.0	0	0.0	0	0.0	0	0.0
13-19	24	21.6	17	13.4	25	19.9	9	7.3	28	23.0
20-24	44	52.0	51	59.9	47	54.6	39	44.3	67	74.3
25-29	31	42.4	33	44.4	39	51.8	22	28.7	61	78.4
30-34	12	16.8	10	13.8	11	14.9	8	10.7	38	49.8
35-39	5	6.1	4	*	7	9.5	9	12.4	13	17.9
40-44	9	9.3	4	*	8	8.6	9	10.0	8	9.3
45-49	11	9.7	8	7.3	6	5.7	11	10.8	11	11.3
50-54	3	*	6	5.2	5	4.4	7	6.2	5	4.5
55-59	2	*	2	*	0	0.0	1	*	3	*
60+	4	*	1	*	0	0.0	3	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	104	8.4	111	8.9	112	9.0	97	7.8	172	14.2
Black	14	93.1	13	75.3	13	70.8	9	46.6	20	120.4
Asian/Pacific Isl.	2	*	0	0.0	0	0.0	1	*	2	*
AmInd/AlaskNat	0	0.0	0	0.0	1	*	2	*	0	0.0
Other/Unknown ²	26	77.7	12	61.5	22	110.5	9	43.8	41	65.1
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	5	13.6	10	25.9	10	25.0	7	16.7	9	20.7
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	10	NC	10	NC	8	NC	6	NC	14	NC
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	3	*	3	*	3	*	3	*	4	*
Carroll	0	0.0	2	*	1	*	2	*	2	*
Cheshire	13	16.9	3	*	5	6.5	9	11.7	17	22.3
Coos	1	*	1	*	1	*	1	*	1	*
Grafton	10	11.2	8	9.0	3	*	4	*	9	10.0
Hillsborough	61	15.2	65	16.2	67	16.6	55	13.6	92	22.7
<i>Manchester</i>	28	25.6	32	29.1	43	39.0	25	22.6	51	46.2
<i>Nashua</i>	17	19.7	19	21.9	9	10.4	15	17.3	18	20.6
Merrimack	13	8.9	16	10.9	21	14.3	12	8.2	21	14.3
Rockingham	30	10.2	30	10.1	22	7.4	20	6.7	47	15.6
Strafford	7	5.7	8	6.5	21	16.9	12	9.6	34	27.1
Sullivan	8	18.3	0	0.0	4	*	0	0.0	8	18.6

Gonorrhea by Risk⁶, 2010-2014



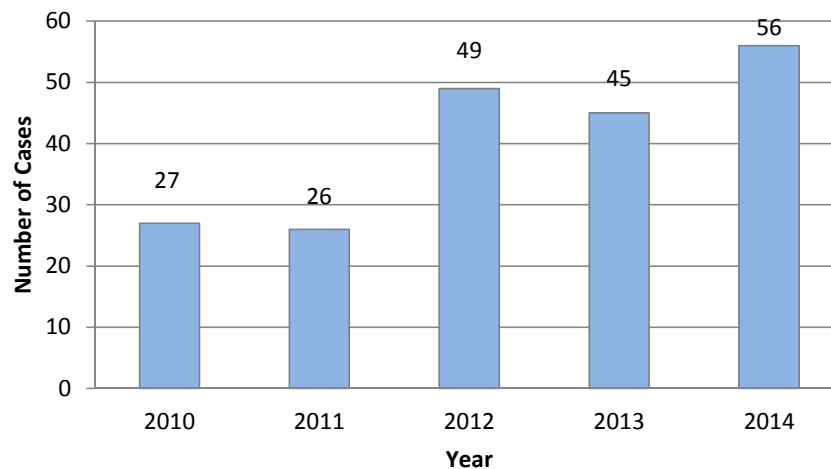
Gonorrhea - Hillsborough County, 2010-2014



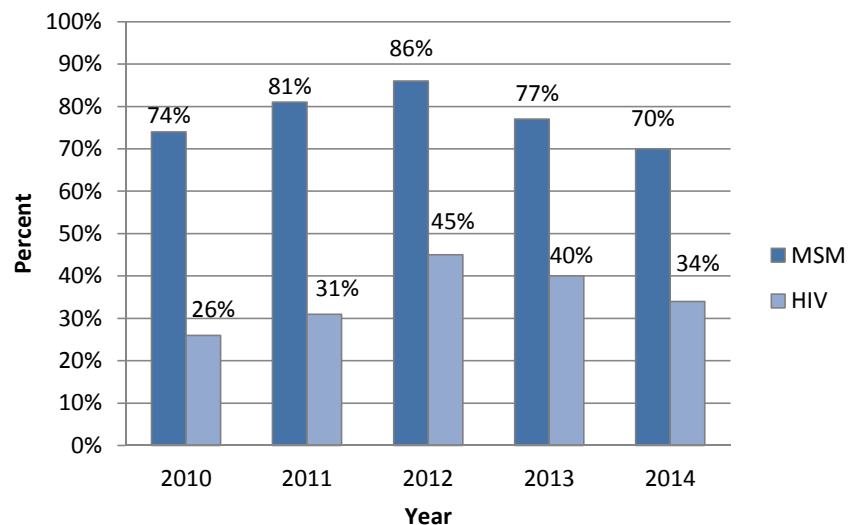
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 Infectious Syphilis

YEAR	2010		2011		2012		2013		2014	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL	27	2.1	26	2.0	49	3.7	45	3.4	56	4.2
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	26	4.0	25	3.8	49	7.5	42	6.4	47	7.2
Female	1	*	1	*	0	0.0	3	*	9	1.3
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	2	*	2	*
20-24	7	8.3	7	8.2	8	9.3	6	6.8	10	11.1
25-29	5	6.8	2	*	7	9.3	5	6.5	3	*
30-34	2	*	2	*	5	6.8	8	10.7	12	15.7
35-39	1	*	1	*	4	*	7	9.7	4	*
40-44	2	*	4	*	5	5.4	5	5.6	3	*
45-49	4	*	5	4.6	12	11.3	3	*	11	11.3
50-54	5	4.4	3	*	5	4.4	6	5.3	6	5.3
55-59	1	*	1	*	3	*	1	*	2	*
60+	0	0.0	1	*	0	0.0	2	*	3	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	24	1.9	25	2.0	42	3.4	38	3.0	50	4.1
Black	1	*	1	*	4	*	3	*	2	*
Asian/Pacific Isl.	2	*	0	0.0	1	*	0	0.0	1	*
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	0	0.0	0	0.0	2	*	4	*	3	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ³	2	*	3	*	1	*	2	*	3	*
HIV INFECTED⁴	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Total	7	NC	8	NC	22	NC	18	NC	19	NC
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	*	0	0.0
Cheshire	3	*	1	*	0	0.0	2	*	1	*
Coos	0	0.0	2	*	0	0.0	0	0.0	0	0.0
Grafton	2	*	2	*	3	*	2	*	3	*
Hillsborough	9	2.2	3	*	25	6.2	15	3.7	25	6.2
<i>Manchester</i>	5	4.6	1	*	16	14.5	8	7.2	16	14.5
<i>Nashua</i>	2	*	0	0.0	3	*	6	6.9	5	5.7
Merrimack	4	*	5	3.4	5	3.4	2	*	3	*
Rockingham	5	1.7	5	1.7	13	4.4	15	5.0	18	6.0
Strafford	3	*	5	4.0	0	0.0	5	4.0	3	*
Sullivan	0	0.0	1	*	2	*	2	*	3	*

Cases of Primary, Secondary and Early Latent Syphilis, 2010-2014



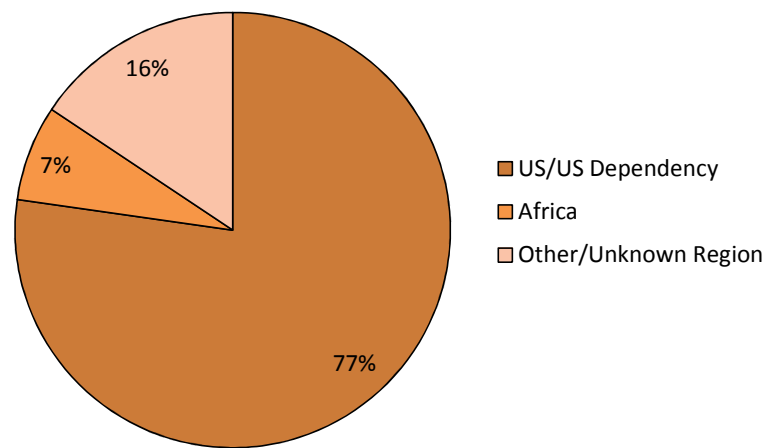
Primary, Secondary and Early Latent Syphilis: Percent MSM⁶ and HIV Co-Infected, 2010-2014



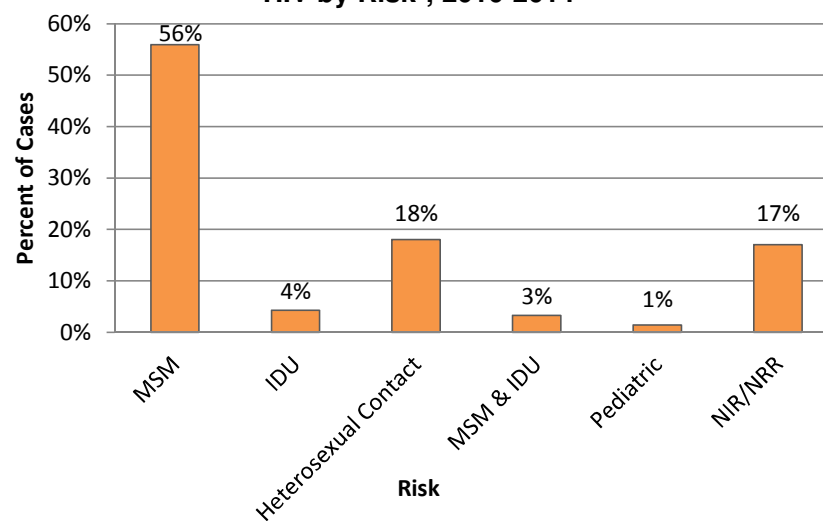
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 HIV

YEAR	2010		2011		2012		2013		2014	
	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹	Cases	Rate ¹
TOTAL⁸	50	3.8	43	3.3	46	3.5	37	2.8	35	2.6
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	45	6.9	34	5.2	35	5.4	31	4.7	28	4.3
Female	5	0.7	9	1.3	11	1.6	6	0.9	7	1.0
AGE-SPECIFIC	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
0-12	1	*	3	*	0	0.0	1	*	0	0.0
13-19	1	*	2	*	1	*	1	*	1	*
20-24	5	5.9	5	5.9	6	7.0	5	5.7	6	6.7
25-29	4	*	3	*	6	8.0	8	10.4	5	6.4
30-34	9	12.6	5	6.9	5	6.8	3	*	7	9.2
35-39	5	6.1	2	*	5	6.8	2	*	3	*
40-44	5	5.2	3	*	8	8.6	3	*	2	*
45-49	8	7.0	6	5.5	5	4.7	5	4.9	3	*
50-54	6	5.3	8	7.0	5	4.4	5	4.4	4	*
55-59	3	*	4	*	4	*	2	*	3	*
60+	3	*	2	*	1	*	2	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	38	3.1	31	2.5	34	2.7	27	2.2	21	1.7
Black	4	*	6	34.8	8	43.5	4	*	7	42.1
Asian/Pacific Isl.	3	*	1	*	0	0.0	1	*	1	*
AmInd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	5	15.0	5	25.6	4	*	5	24.3	6	9.5
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ⁵	3	*	4	*	2	*	4	*	6	13.8
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	0	0.0	3	*	1	*	0	0.0	1	*
Carroll	1	*	2	*	1	*	0	0.0	1	*
Cheshire	0	0.0	2	*	1	*	2	*	1	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	4	*	3	*	4	*	1	*	3	*
Hillsborough	17	4.2	23	5.7	24	6.0	12	3.0	19	4.7
Merrimack	7	4.8	1	*	6	4.1	8	5.4	2	*
Rockingham	11	3.7	7	2.4	5	1.7	7	2.3	7	2.3
Strafford	9	7.3	1	*	3	*	4	*	1	*
Sullivan	1	*	1	*	1	*	3	*	0	0.0

HIV by Country/Region of Birth⁸, 2009-2013



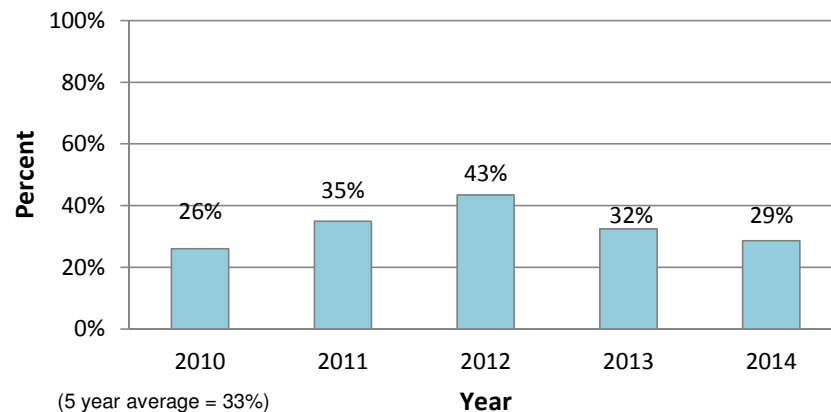
HIV by Risk⁶, 2010-2014



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 AIDS

YEAR	2010		2011		2012	2013		2014		
	Cases	Rate ¹	Cases	Rate ¹		Cases	Rate ¹	Cases	Rate ¹	
TOTAL⁸	31	2.4	24	1.8	27	2.0	17	1.3	16	1.2
GENDER	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Male	25	3.8	20	3.1	20	3.1	14	2.1	11	1.7
Female	6	0.9	4	*	7	1.0	3	*	5	0.7
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	*	4	*	1	*	2	*	1	*
25-29	0	0.0	1	*	3	*	0	0.0	2	*
30-34	4	*	0	0.0	4	*	1	*	0	0.0
35-39	3	*	1	*	3	*	3	*	1	*
40-44	4	*	6	6.3	2	*	2	*	3	*
45-49	10	8.8	2	*	3	*	3	*	2	*
50-54	3	*	1	*	3	*	3	*	3	*
55-59	2	*	5	5.0	5	4.9	2	*	3	*
60+	3	*	4	*	3	*	1	*	1	*
RACE	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
White	22	1.8	19	1.5	20	1.6	9	0.7	8	0.7
Black	2	*	2	*	4	*	4	*	4	*
Asian/Pacific Isl.	1	*	0	0.0	0	0.0	1	*	1	*
Amlnd/AlaskNat	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other/Unknown ²	6	17.9	3	*	3	*	3	*	3	*
ETHNICITY	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Hispanic ⁵	3	*	3	*	2	*	3	*	3	*
COUNTY/CITY⁵	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹	Cases	Rate¹
Belknap	1	*	0	0.0	0	0.0	0	0.0	2	*
Carroll	1	*	1	*	2	*	0	0.0	1	*
Cheshire	2	*	0	0.0	1	*	1	*	1	*
Coos	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grafton	3	*	1	*	3	*	0	0.0	1	*
Hillsborough	12	3.0	16	4.0	12	3.0	7	1.7	8	2.0
Merrimack	1	*	1	*	4	*	4	*	0	0.0
Rockingham	6	2.0	4	*	3	*	2	*	3	*
Strafford	4	*	1	*	1	*	2	*	0	0.0
Sullivan	1	*	0	0.0	1	*	1	*	0	0.0

HIV/AIDS Concurrent Diagnosis, 2010-2014



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

2014 concurrent diagnosis data is provisional and not yet validated.

2014 concurrent diagnosis data may change when data are finalized.

AIDS By Risk⁶, 2010-2014

