

Regional HIV/AIDS Epidemiologic Profile of Metrowest Health Service Region (HSR), Massachusetts: 2015

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Disease, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2015, this resulted in the removal of 4,401 HIV/AIDS cases, of which 1,021 have died and 3,380 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual risk category was used with the intention of identifying HIV risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. The application of the presumed heterosexual risk category to men is overly inclusive in that woman to man HIV transmission is biologically less probable, and there are alternate risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual risk categories for women.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2014: Metrowest HSR, Massachusetts²

	N	%
People Living with HIV/AIDS	2,911	62%
People Reported with HIV or AIDS who are Deceased	1,762	38%
Total Number of People Reported with HIV Infection or AIDS	4,673	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 2. Average annual rate of HIV infection diagnosis from 2011 to 2013 and HIV/AIDS prevalence rate on 12/31/14¹: Metrowest HSR, Massachusetts²

Average annual HIV diagnosis rate from 2011–2013	Average rate per 100,000	Average annual number of HIV diagnoses
Metrowest HSR, MA	7.1	107.7
Massachusetts Total	10.7	701.3

HIV/AIDS prevalence rate on 12/31/14	Rate per 100,000	Number of people living with HIV/AIDS
Metrowest HSR, MA	191.4	2,911
Massachusetts Total	301.5	19,737

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2004–2013, Metrowest HSR, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2004	2,037	43	127
2005	2,141	36	140
2006	2,208	46	113
2007	2,306	28	126
2008	2,406	25	125
2009	2,502	35	131
2010	2,594	25	117
2011	2,670	29	105
2012	2,745	32	107
2013	2,799	28	111

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 4. People diagnosed with HIV infection from 2011–2013¹ and people living with HIV/AIDS on December 31, 2014 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Metrowest HSR, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	236	73%	2,092	72%
Female	87	27%	819	28%
Place of Birth:	N	%	N	%
US	-- ⁷	-- ⁷	1,766	61%
Puerto Rico/US Dependency ³	-- ⁷	-- ⁷	77	3%
Non-US	141	44%	1,068	37%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	143	44%	1,441	50%
Black (non-Hispanic)	115	36%	997	34%
Hispanic/Latino	45	14%	378	13%
Asian/Pacific Islander	18	6%	80	3%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	151	47%	1,226	42%
Injection Drug Use (IDU)	10	3%	290	10%
MSM/IDU	-- ⁷	-- ⁷	92	3%
Heterosexual Sex	24	7%	381	13%
Other	-- ⁷	-- ⁷	69	2%
Total Undetermined	129	40%	853	29%
• Presumed Heterosexual Sex ⁴	46	14%	323	11%
• Undetermined ⁵	83	26%	530	18%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2014	
Under 13	2	1%	4	<1%
13 to 19	6	2%	13	<1%
20 to 24	22	7%	36	1%
25 to 29	47	15%	102	4%
30 to 34	53	16%	155	5%
35 to 39	34	11%	195	7%
40 to 44	41	13%	293	10%
45 to 49	46	14%	494	17%
50 to 54	40	12%	574	20%
55 to 59	17	5%	480	16%
60+	15	5%	565	19%
Total⁶	323	100%	2,911	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 5. People living with HIV/AIDS on December 31, 2014 by gender and race/ethnicity: Metrowest HSR, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	1,220	58%	221	27%
Black (non-Hispanic)	500	24%	497	61%
Hispanic/Latino	289	14%	89	11%
Asian/Pacific Islander	70	3%	10	1%
Total²	2,092	100%	819	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 6. People living with HIV/AIDS on December 31, 2014 by gender and exposure mode: Metrowest HSR, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	1,226	59%	N/A	N/A
Injection drug use (IDU)	170	8%	120	15%
MSM/IDU	92	4%	N/A	N/A
Heterosexual sex	121	6%	260	32%
Other	41	2%	28	3%
Total Undetermined	442	21%	411	50%
• Presumed heterosexual sex ²	N/A	N/A	323	39%
• Undetermined ³	442	21%	88	11%
Total	2,092	100%	819	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Metrowest HSR, Massachusetts¹, 2004–2013²

	Male		Female		Total
	N	%	N	%	
2004	92	72%	35	28%	127
2005	104	74%	36	26%	140
2006	82	73%	31	27%	113
2007	80	63%	46	37%	126
2008	91	73%	34	27%	125
2009	107	82%	24	18%	131
2010	89	76%	28	24%	117
2011	74	70%	31	30%	105
2012	73	68%	34	32%	107
2013	89	80%	22	20%	111

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Metrowest HSR, Massachusetts¹, 2004–2013²

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total ³
	N	%	N	%	N	%	N
2004	64	50%	42	33%	18	14%	127
2005	70	50%	51	36%	15	11%	140
2006	58	51%	31	27%	19	17%	113
2007	51	40%	55	44%	17	13%	126
2008	55	44%	46	37%	17	14%	125
2009	63	48%	37	28%	23	18%	131
2010	49	42%	32	27%	31	26%	117
2011	43	41%	42	40%	14	13%	105
2012	49	46%	37	35%	16	15%	107
2013	51	46%	36	32%	15	14%	111

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Metrowest HSR, Massachusetts¹, 2004–2013²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	N
2004	73	57%	6	5%	48	38%	127
2005	-- ⁴	-- ⁴	-- ⁴	-- ⁴	64	46%	140
2006	-- ⁴	-- ⁴	-- ⁴	-- ⁴	45	40%	113
2007	-- ⁴	-- ⁴	-- ⁴	-- ⁴	51	40%	126
2008	73	58%	5	4%	47	38%	125
2009	70	53%	8	6%	53	40%	131
2010	-- ⁴	-- ⁴	-- ⁴	-- ⁴	47	40%	117
2011	-- ⁴	-- ⁴	-- ⁴	-- ⁴	47	45%	105
2012	54	50%	0	0%	53	50%	107
2013	70	63%	0	0%	41	37%	111

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of people living with HIV/AIDS in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas, <1% were born in the US Virgin Islands, and <1% were born in Guam.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Metrowest HSR, Massachusetts¹, 2004–2013²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2004	45	35%	12	9%	5	4%	19	15%	0	0%	13	10%	33	26%	127
2005	51	36%	12	9%	5	4%	19	14%	0	0%	16	11%	37	26%	140
2006	55	49%	14	12%	-- ⁵	-- ⁵	15	13%	-- ⁵	-- ⁵	11	10%	15	13%	113
2007	42	33%	10	8%	-- ⁵	-- ⁵	15	12%	-- ⁵	-- ⁵	21	17%	34	27%	126
2008	56	45%	7	6%	-- ⁵	-- ⁵	12	10%	-- ⁵	-- ⁵	18	14%	26	21%	125
2009	70	53%	7	5%	5	4%	13	10%	0	0%	11	8%	25	19%	131
2010	58	50%	5	4%	-- ⁵	-- ⁵	11	9%	-- ⁵	-- ⁵	11	9%	26	22%	117
2011	47	45%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	12	11%	-- ⁵	-- ⁵	13	12%	25	24%	105
2012	46	43%	-- ⁵	-- ⁵	0	0%	9	8%	-- ⁵	-- ⁵	18	17%	30	28%	107
2013	58	52%	-- ⁵	0	0%	15	14%	28	25%	111					

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Metrowest HSR, Massachusetts¹, 2004–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2004	44	127	35%
2005	58	140	41%
2006	43	113	38%
2007	52	126	41%
2008	38	125	30%
2009	40	131	31%
2010	39	117	33%
2011	40	105	38%
2012	40	107	37%
2013	26	111	23%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Metrowest HSR, Massachusetts,¹ 2011–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	72	236	31%
Female	34	87	39%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	37	143	26%
Black (non-Hispanic)	45	115	39%
Hispanic/Latino	19	45	42%
Asian/Pacific Islander	-- ⁵	-- ⁵	-- ⁵
Other/Undetermined ³	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	-- ⁵	-- ⁵	-- ⁵
Puerto Rico/US Dependencies ⁴	-- ⁵	-- ⁵	-- ⁵
Non-US	61	141	43%
Total	106	323	33%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15