

Detailed Data Tables: Adolescents and Young Adults

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 Diseases, 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, 2014, this resulted in the removal of 4,135 HIV/AIDS cases, of which 973 have died and 3,162 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. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. 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 reported 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. Twenty-nine percent of women living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual risk category. The application of the presumed heterosexual risk category to men is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate reported 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. People diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2003–2012²

Year	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	8	1%	19	2%	60	6%	94	10%	158	16%	207	22%	167	17%	119	12%	66	7%	29	3%	31	3%	958
2004	10	1%	20	2%	55	6%	96	11%	134	15%	182	20%	165	18%	116	13%	70	8%	37	4%	29	3%	914
2005	5	1%	8	1%	59	7%	88	10%	143	16%	154	17%	190	21%	127	14%	61	7%	37	4%	25	3%	897
2006	5	1%	21	3%	61	7%	91	11%	99	12%	144	18%	146	18%	116	14%	66	8%	41	5%	24	3%	814
2007	4	1%	13	2%	53	7%	81	11%	85	11%	133	18%	130	18%	111	15%	62	8%	36	5%	32	4%	740
2008	6	1%	18	2%	59	8%	101	14%	91	12%	78	11%	124	17%	104	14%	72	10%	42	6%	35	5%	730
2009	3	<1%	19	3%	60	9%	69	10%	94	14%	89	13%	107	15%	114	16%	63	9%	38	5%	36	5%	692
2010	6	1%	11	2%	62	9%	67	10%	84	12%	110	16%	97	14%	101	15%	77	11%	40	6%	34	5%	689
2011	3	<1%	22	3%	69	10%	73	11%	84	12%	90	13%	114	17%	94	14%	58	9%	38	6%	37	5%	682
2012	2	<1%	24	3%	75	11%	94	14%	96	14%	78	11%	75	11%	103	15%	59	9%	45	6%	43	6%	694

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 10 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 1/1/14

Table 2. Men diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2003–2012²

Year	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	6	1%	10	2%	35	5%	47	7%	109	17%	155	24%	117	18%	75	12%	52	8%	23	4%	20	3%	649
2004	4	1%	10	2%	37	6%	62	10%	88	14%	145	22%	117	18%	85	13%	44	7%	30	5%	23	4%	645
2005	0	0%	5	1%	40	6%	65	10%	101	15%	115	18%	146	22%	97	15%	45	7%	26	4%	16	2%	656
2006	3	1%	10	2%	39	7%	60	10%	70	12%	112	19%	109	19%	85	15%	52	9%	27	5%	18	3%	585
2007	1	<1%	6	1%	40	8%	57	11%	54	10%	101	19%	95	18%	81	15%	51	10%	25	5%	21	4%	532
2008	6	1%	12	2%	48	9%	73	14%	62	12%	54	10%	91	17%	80	15%	52	10%	30	6%	26	5%	534
2009	1	<1%	14	3%	50	9%	55	10%	68	13%	67	13%	81	15%	96	18%	45	9%	26	5%	26	5%	529
2010	3	1%	6	1%	45	9%	52	10%	59	12%	75	15%	74	15%	81	16%	58	12%	23	5%	22	4%	498
2011	1	<1%	12	2%	57	12%	57	12%	55	11%	62	13%	85	17%	68	14%	42	9%	26	5%	23	5%	488
2012	1	<1%	17	3%	62	12%	78	15%	61	12%	57	11%	58	11%	76	15%	44	9%	37	7%	26	5%	517

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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 10 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 1/1/14

Table 3. Women diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2003–2012²

Year	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	2	1%	9	3%	25	8%	47	15%	49	16%	52	17%	50	16%	44	14%	14	5%	6	2%	11	4%	309
2004	6	2%	10	4%	18	7%	34	13%	46	17%	37	14%	48	18%	31	12%	26	10%	7	3%	6	2%	269
2005	5	2%	3	1%	19	8%	23	10%	42	17%	39	16%	44	18%	30	12%	16	7%	11	5%	9	4%	241
2006	2	1%	11	5%	22	10%	31	14%	29	13%	32	14%	37	16%	31	14%	14	6%	14	6%	6	3%	229
2007	3	1%	7	3%	13	6%	24	12%	31	15%	32	15%	35	17%	30	14%	11	5%	11	5%	11	5%	208
2008	0	0%	6	3%	11	6%	28	14%	29	15%	24	12%	33	17%	24	12%	20	10%	12	6%	9	5%	196
2009	2	1%	5	3%	10	6%	14	9%	26	16%	22	13%	26	16%	18	11%	18	11%	12	7%	10	6%	163
2010	3	2%	5	3%	17	9%	15	8%	25	13%	35	18%	23	12%	20	10%	19	10%	17	9%	12	6%	191
2011	2	1%	10	5%	12	6%	16	8%	29	15%	28	14%	29	15%	26	13%	16	8%	12	6%	14	7%	194
2012	1	1%	7	4%	13	7%	16	9%	35	20%	21	12%	17	10%	27	15%	15	8%	8	5%	17	10%	177

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 10 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 1/1/14

Table 4. People living with HIV/AIDS on December 31, 2013 by age at HIV infection diagnosis: Massachusetts¹

Age (years)	N	%
Under 13	339	2%
13 to 19	384	2%
20 to 24	1,524	8%
25 to 29	2,861	15%
30 to 34	3,754	20%
35 to 39	3,669	19%
40 to 44	2,882	15%
45 to 49	1,843	10%
50 to 54	1,006	5%
55 to 59	504	3%
60+	399	2%
Total	19,165	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 5. People living with HIV/AIDS on December 31, 2013 by current age and gender: Massachusetts¹

Age in years	Male		Female		State Total	
	N	%	N	%	N	%
Under 13	12	<1%	14	<1%	26	<1%
13 to 19	50	<1%	49	1%	99	1%
20 to 24	173	1%	106	2%	279	1%
25 to 29	450	3%	165	3%	615	3%
30 to 34	613	4%	276	5%	889	5%
35 to 39	801	6%	509	9%	1,310	7%
40 to 44	1,320	10%	713	13%	2,033	11%
45 to 49	2,394	18%	1,015	19%	3,409	18%
50 to 54	3,017	22%	1,061	19%	4,078	21%
55 to 59	2,344	17%	817	15%	3,161	16%
60+	2,506	18%	760	14%	3,266	17%
Total	13,680	100%	5,485	100%	19,165	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.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 6. People diagnosed with HIV infection by age at diagnosis and Health Service Region (HSR):¹ Massachusetts², 2010–2012³

HSR	Age at HIV Diagnosis (years)								Total ⁴ N
	13–19		20–24		13–24		25+		
	N	%	N	%	N	%	N	%	N
Boston	20	3%	62	10%	82	13%	537	86%	625
Central	5	3%	18	10%	23	13%	157	87%	180
Metro West	7	2%	30	9%	37	11%	281	87%	322
Northeast	8	2%	31	8%	39	11%	328	89%	367
Southeast	8	3%	30	11%	38	14%	243	86%	281
Western	9	4%	30	13%	39	17%	193	83%	233
Prison ⁵	0	0%	4	7%	4	7%	51	93%	55
Mass. Total	57	3%	206	10%	263	13%	1,791	87%	2,065

¹ Reflects the Health Service Region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf for configuration of Health Service Regions

² Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

⁴ Totals include people diagnosed with HIV infection at less than 13 years of age

⁵ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 7. Ten cities/towns¹ in Massachusetts² with the highest proportion of HIV infection diagnoses (HIV Dx) among adolescents and young adults (13–24 years old): 2010–2012³

Rank	City/Town	Number of HIV Dx among 13–24 year olds	Total Number of HIV Dx	Percent of Total HIV Dx
1	Chicopee	5	14	36%
2	Fall River	6	24	25%
3	Medford	5	22	23%
4	Holyoke	8	39	21%
5	Springfield	18	113	16%
6	Boston	77	564	14%
7	Worcester	11	91	12%
7	Cambridge	5	43	12%
7	Lynn	6	52	12%
8	Lowell	6	59	10%

¹ Among cities/towns with at least 5 people diagnosed with HIV infection at ages 13–24 years within the three year period 2010 to 2012; reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

³ 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.

⁴ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 8. People diagnosed with HIV infection, age at diagnosis by gender and race/ethnicity: Massachusetts^{1, 2}, 2010–2012²

	Age at HIV Diagnosis (years)							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	35	61%	164	80%	199	76%	1,299	73%
Female	22	39%	42	20%	64	24%	492	27%
Race:	N	%	N	%	N	%	N	%
White (NH) ³	9	16%	76	37%	85	32%	692	39%
Black (NH)	25	44%	65	32%	90	34%	567	32%
Hispanic/Latino	18	32%	57	28%	75	29%	455	25%
API ⁴	-- ⁶	-- ⁶	8	4%	-- ⁶	-- ⁶	55	3%
Other/Unk. ⁵	-- ⁶	-- ⁶	0	0%	-- ⁶	-- ⁶	22	1%
Total	57	100%	206	100%	263	100%	1,791	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and 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 (NH) = Non-Hispanic

⁴ API = Asian/Pacific Islander

⁵ Other/Unk. = Other/Unknown; includes American Indian/Alaska Native and unknown race/ethnicity

⁶ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 9. People living with HIV/AIDS, age on December 31, 2013 by gender and race/ethnicity: Massachusetts¹

	Age (years) on December 31, 2013							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Gender:								
Male	50	51%	173	62%	223	59%	13,445	72%
Female	49	49%	106	38%	155	41%	5,316	28%
Race:	N	%	N	%	N	%	N	%
White (NH) ²	13	13%	77	28%	90	24%	8,204	44%
Black (NH)	49	49%	110	39%	159	42%	5,568	30%
Hispanic/Latino	33	33%	84	30%	117	31%	4,543	24%
API ³	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	322	2%
Other/Unk. ⁴	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	124	1%
Total	99	100%	279	100%	378	100%	18,761	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² (NH) = Non-Hispanic

³ API = Asian/Pacific Islander

⁴ Other/Unk. = Other/Unknown; includes American Indian/Alaska Native and unknown race/ethnicity

⁵ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 10. People diagnosed with HIV by age at diagnosis and reported risk: Massachusetts¹, 2010–2012²

By Reported Risk:	Age at Diagnosis (years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	28	49%	125	61%	153	58%	728	41%
Injection Drug Use (IDU)	0	0%	10	5%	10	4%	162	9%
MSM/IDU	-- ⁶	-- ⁶	13	6%	15	6%	48	3%
Total Heterosexual Sex (HTSX)	5	9%	12	6%	17	6%	211	12%
• HTSX w/ an Injection Drug User	0	0%	0	0%	0	0%	38	2%
• HTSX w/ Bisexual male (women only)	0	0%	0	0%	0	0%	-- ⁶	-- ⁶
• Other HTSX ³	0	0%	0	0%	0	0%	-- ⁶	-- ⁶
• HTSX w/ a person w/ HIV or AIDS	5	9%	12	6%	17	6%	162	9%
Blood/Blood Products	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	0	0%
Pediatric	0	0%	-- ⁶	-- ⁶	-- ⁶	-- ⁶	0	0%
Total Undetermined/Other	22	39%	44	21%	66	25%	642	36%
• Presumed HTSX ⁴	9	16%	18	9%	27	10%	228	13%
• Undetermined/Other ⁵	13	23%	26	13%	39	15%	414	23%
Total	57	100%	206	100%	263	100%	1,791	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and 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 heterosexual sex with a person who received blood/blood products.

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

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 Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Note: The category of “presumed heterosexual” is used in Massachusetts to re-assign women who are reported with an exposure of heterosexual sex, but only with a partner of unknown HIV status or behavioral risk. Massachusetts uses the category of presumed heterosexual to distinguish these female cases from other undetermined cases about which we know less. Prior to January 1, 2011, the presumed heterosexual category was also used to report HIV data in men. The rationale for the application of the presumed heterosexual risk category to women only has been addressed in the MDPH OHA report “Intersecting Risks: HIV Infection among Heterosexual Women and Men in Massachusetts.” (2010) http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting_risks.pdf. Nationally, the Centers for Disease Control and Prevention categorize “presumed heterosexual” cases as “no identified risk” (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk was for women in this category. Although a person may not report other risk behaviors, such as injection drug use to a health care provider, it does not exclude the possibility that an individual has experienced these other risks. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.

Table 11. People living with HIV/AIDS on December 31, 2013, current age by reported risk: Massachusetts¹

By Reported Risk:	Age on December 31, 2013(years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	-- ⁵	-- ⁵	80	29%	83	22%	7,054	38%
Injection Drug Use (IDU)	0	0%	0	0%	0	0%	3,683	20%
MSM/IDU	0	0%	8	3%	8	2%	653	3%
Total Heterosexual Sex (HTSX)	-- ⁵	-- ⁵	12	4%	14	4%	2,706	14%
• HTSX w/ an Injection Drug User	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	888	5%
• HTSX w/ Bisexual male (women only)	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	44	<1%
• Other HTSX ²	-- ⁵	-- ⁵	0	0%	0	0%	45	<1%
• HTSX w/ a person w/ HIV or AIDS	-- ⁵	-- ⁵	11	4%	13	3%	1,729	9%
Blood/Blood Products	0	0%	0	0%	0	0%	67	<1%
Pediatric	85	86%	123	44%	208	55%	105	1%
Total Undetermined	9	9%	56	20%	65	17%	4,493	24%
• Presumed HTSX ³	-- ⁵	-- ⁵	24	9%	25	7%	1,689	9%
• Undetermined ⁴	-- ⁵	-- ⁵	32	11%	40	11%	2,804	15%
Total	99	100%	279	100%	378	100%	18,761	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² Includes heterosexual sex with a person who received blood/blood products.

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

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 Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/14

Table 12. People living with HIV/AIDS who were exposed to HIV infection perinatally, or through other means before age 13 (years), by age on December 31, 2013¹

Age:	N	%
Less than 13	26	8%
13–19	85	25%
20–24	123	36%
25 and over	105	31%
Total	339	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts. Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 13. Adolescents and young adults 13–24 years old on December 31, 2013, who were exposed to HIV infection perinatally, or through other means before age 13, by gender and race/ethnicity¹

Gender:	N	%
Male	107	51%
Female	101	49%
Race/Ethnicity:	N	%
White (non-Hispanic)	48	23%
Black (non-Hispanic)	92	44%
Hispanic/Latino	64	31%
Total²	208	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² Total includes Other/Undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 14. People diagnosed with HIV infection between 13–24 years of age, gender by race/ethnicity and reported risk: Massachusetts¹, 2010–2012²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	71	36%	14	22%
Black (non-Hispanic)	58	29%	32	50%
Hispanic/Latino	59	30%	16	25%
Asian/Pacific Islander	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Other/Unknown	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Reported Risk:	N	%	N	%
Male-to-Male Sex (MSM)	153	77%	N/A ³	N/A
Injection Drug Use (IDU)	-- ⁷	-- ⁷	8	13%
MSM/IDU	15	8%	N/A	N/A
Heterosexual sex (HTSX)	-- ⁷	-- ⁷	15	23%
Total Undetermined	25	13%	41	64%
• Presumed HTSX ⁴	N/A	N/A	27	42%
• Undetermined ⁵	25	13%	14	22%
Total⁶	199	100%	64	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² Reflects year of HIV 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 N/A = Not Applicable

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

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 blood/blood product reported risks.

⁷ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 15. People diagnosed with HIV infection at 25 years of age and older, gender by race/ethnicity and reported risk: Massachusetts¹, 2010–2012²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	603	46%	89	18%
Black (non-Hispanic)	301	23%	266	54%
Hispanic/Latino	337	26%	118	24%
Asian/Pacific Islander	44	3%	11	2%
Other/Unknown	14	1%	8	2%
Reported Risk:	N	%	N	%
Male-to-Male Sex (MSM)	728	56%	N/A	N/A
Injection Drug Use (IDU)	104	8%	58	12%
MSM/IDU	48	4%	N/A	N/A
Heterosexual sex (HTSX)	76	6%	135	27%
Total Undetermined	343	26%	299	61%
• Presumed HTSX ⁵	N/A	N/A	228	46%
• Undetermined ⁶	343	26%	71	14%
Total	1,299	100%	492	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² Reflects year of HIV 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 N/A = Not Applicable

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

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 blood/blood product reported risks.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 16. People living with HIV/AIDS on December 31, 2013 between 13–24 years of age, gender by race/ethnicity and reported risk: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	54	24%	36	23%
Black (non-Hispanic)	91	41%	68	44%
Hispanic/Latino	72	32%	45	29%
Asian/Pacific Islander	-- ⁶	-- ⁶	5	3%
Other/Unknown	-- ⁶	-- ⁶	0	0%
Reported Risk:	N	%	N	%
Male-to-Male Sex (MSM)	83	37%	N/A	N/A
Injection Drug Use (IDU)	0	0%	0	0%
MSM/IDU	8	4%	N/A	N/A
Heterosexual sex (HTSX)	0	0%	14	9%
Other ³	107	48%	101	65%
Total Undetermined	25	11%	40	26%
• Presumed HTSX ⁴	N/A	N/A	25	16%
• Undetermined ⁵	25	11%	15	10%
Total	223	100%	155	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² N/A = Not Applicable

³ Other includes pediatric and receipt of blood/blood products.

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

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 Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 17. People living with HIV/AIDS on December 31, 2013, 25 years of age and older, gender by race/ethnicity and reported risk: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	6,873	51%	1,331	25%
Black (non-Hispanic)	3,135	23%	2,433	46%
Hispanic/Latino	3,103	23%	1,440	27%
Asian/Pacific Islander	250	2%	72	1%
Other/Unknown	84	1%	40	1%
Reported Risk:	N	%	N	%
Male-to-Male Sex (MSM)	7,054	52%	N/A	N/A
Injection Drug Use (IDU)	2,431	18%	1,252	24%
MSM/IDU	653	5%	N/A	N/A
Heterosexual sex (HTSX)	804	6%	1,902	36%
Other ³	107	1%	66	1%
Total Undetermined	2,396	18%	2,096	39%
• Presumed HTSX ⁴	N/A	N/A	1,689	32%
• Undetermined ⁵	2,396	18%	407	8%
Total	13,445	100%	5,316	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² N/A = Not Applicable

³ Other includes pediatric and receipt of blood/blood products.

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

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.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 18. People diagnosed with HIV infection between 13–24 years of age, race/ethnicity by reported risk: Massachusetts¹, 2010–2012²

Reported Risk:	White (NH) ³		Black (NH)		Hispanic/Latino	
	N	%	N	%	N	%
Male-to-Male Sex (MSM)	57	67%	41	46%	44	59%
Injection Drug Use (IDU)	8	9%	-- ⁷	-- ⁷	-- ⁷	-- ⁷
MSM/IDU	10	12%	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Heterosexual Sex (HTSX)	-- ⁷	-- ⁷	6	7%	9	12%
Other ⁴	0	0%	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Total Undetermined	9	11%	37	41%	19	25%
• Presumed Heterosexual ⁵	-- ⁷	-- ⁷	16	18%	6	8%
• Undetermined ⁶	-- ⁷	-- ⁷	21	23%	13	17%
Total	85	100%	90	100%	75	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² Reflects year of HIV 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 (NH) = Non-Hispanic

⁴ Other includes pediatric and receipt of blood/blood products.

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to women only.

⁶ 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.

⁷ Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Table 19. People living with HIV/AIDS on December 31, 2013 between 13–24 years of age, race/ethnicity by reported risk: Massachusetts¹

By Reported Risk:	White (NH) ²		Black (NH)		Hispanic/Latino	
	N	%	N	%	N	%
Male-to-Male Sex (MSM)	26	29%	25	16%	27	23%
Injection Drug Use (IDU)	0	0%	-- ⁶	-- ⁶	-- ⁶	-- ⁶
MSM/IDU	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Heterosexual Sex (HTSX)	-- ⁶	-- ⁶	5	3%	7	6%
Other ³	48	53%	92	58%	64	55%
Total Undetermined	11	12%	34	21%	18	15%
• Presumed Heterosexual ⁴	5	6%	15	9%	5	4%
• Undetermined ⁵	6	7%	19	12%	13	11%
Total	90	100%	159	100%	117	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, Office of 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 diagnosed and reported in Massachusetts.

² (NH) = Non-Hispanic

³ Other includes pediatric and receipt of blood/blood products.

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

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 Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/14

Technical Notes:

Tables 20–22 include data reported by students in randomly selected Massachusetts public high schools every odd year from 1993 to 2013. This anonymous survey, the Youth Risk Behavior Survey (YRBS), is administered by the Massachusetts Department of Elementary and Secondary Education in collaboration with the Centers for Disease Control and Prevention and focuses on risk behaviors that may affect the health and/or safety of high school students.

Table 20. Sexual behavior as reported to the Youth Risk Behavior Survey: Massachusetts <i>Calendar Year 2013</i>		
By Behavior:	Percent of total responding yes to specified question	N¹ (total number of respondents for each question)
Ever had sexual intercourse	38.1%	2,516
Sexual intercourse before age 13	3.0%	2,506
4 or more lifetime sexual intercourse partners	9.3%	2,508
Sexual intercourse in last 3 months	27.7%	2,510
Condom used at last intercourse ²	57.6%	667
Alcohol/drugs used at last intercourse ²	23.5%	679
Ever been, gotten someone pregnant	2.7%	2,638
Ever had sexual contact against their will	8.8%	2,679

¹ The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not answer all questions
² Among youth reporting sexual intercourse in the past three months
 Data Source: Massachusetts Department of Elementary and Secondary Education

Table 21. Massachusetts Youth Risk Behavior Survey respondents reporting condom use at last sexual intercourse by year and gender: Massachusetts, 1993–2013¹

Year	Young Men		Young Women		Total	
	%	Total N ²	%	Total N ²	%	Total N ²
1993	57.4%	409	46.7%	462	51.8%	872
1995	59.9%	623	52.0%	626	55.9%	1,253
1997	64.2%	517	50.4%	559	57.0%	1,079
1999	62.6%	589	52.0%	639	57.2%	1,237
2001	61.6%	553	54.9%	582	58.1%	1,139
2003	60.3%	424	57.4%	496	57.4%	922
2005	71.6%	442	59.2%	542	65.0%	986
2007	63.2%	422	59.2%	505	61.1%	929
2009	65.7%	409	50.6%	437	57.5%	849
2011	64.5%	373	51.0%	387	57.7%	761
2013	65.2%	323	50.8%	341	57.6%	667

¹ A random sample of high schools is selected for participation each year; data presented do not represent cohorts followed over time

² Total N = total number of respondents by sex (unweighted). The number of respondents for each question varies from year to year

Data Source: Massachusetts Department of Elementary and Secondary Education

Table 22. Massachusetts Youth Risk Behavior Survey respondents reporting sexual intercourse (ever) by year and gender: Massachusetts, 1993–2013¹

Year	Young Men		Young Women		Total	
	%	Total N ²	%	Total N ²	%	Total N ²
1993	51.4%	1,326	46.0%	1,435	48.7%	2,763
1995	50.3%	1,870	42.8%	1,930	46.5%	3,806
1997	46.8%	1,800	42.4%	1,858	44.7%	3,664
1999	46.4%	1,922	41.8%	2,017	44.1%	3,954
2001	46.3%	1,886	42.3%	1,892	44.3%	3,786
2003	40.8%	1,581	41.1%	1,676	41.0%	3,261
2005	47.9%	1,512	42.9%	1,669	45.4%	3,185
2007	45.2%	1,344	43.7%	1,495	44.4%	2,844
2009	48.0%	1,225	44.6%	1,251	46.4%	2,480
2011	44.7%	1,228	39.4%	1,281	42.0%	2,513
2013	39.4%	1,251	36.5%	1,259	38.1%	2,516

¹ A random sample of high schools is selected for participation each year; data presented do not represent cohorts followed over time

² Total N = total number of respondents by sex (unweighted). The number of respondents for each question varies from year to year

Data Source: Massachusetts Department of Elementary and Secondary Education