

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, 2013, this resulted in the removal of 3,529 HIV/AIDS cases, of which 914 have died and 2,615 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 exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males 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 females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. People diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2002–2011²

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
2002	4	<1%	22	2%	70	7%	125	12%	185	18%	223	21%	183	18%	103	10%	64	6%	35	3%	29	3%	1,043
2003	9	1%	18	2%	57	6%	90	10%	158	17%	200	21%	161	17%	118	13%	64	7%	28	3%	30	3%	933
2004	10	1%	19	2%	54	6%	97	11%	128	14%	183	20%	163	18%	117	13%	67	7%	36	4%	29	3%	903
2005	5	1%	8	1%	59	7%	89	10%	140	16%	148	17%	179	21%	124	14%	58	7%	35	4%	23	3%	868
2006	4	1%	19	2%	60	8%	86	11%	96	12%	140	18%	138	18%	109	14%	58	7%	42	5%	26	3%	778
2007	4	1%	13	2%	55	8%	78	11%	83	11%	130	18%	126	17%	110	15%	60	8%	36	5%	31	4%	726
2008	6	1%	18	3%	57	8%	100	14%	90	13%	77	11%	118	16%	102	14%	73	10%	40	6%	35	5%	716
2009	3	0%	19	3%	57	9%	67	10%	90	13%	91	14%	100	15%	108	16%	62	9%	37	6%	35	5%	669
2010	6	1%	12	2%	59	9%	65	10%	80	12%	103	16%	93	14%	100	15%	68	10%	35	5%	32	5%	653
2011	3	0%	21	3%	60	9%	75	11%	80	12%	83	13%	110	17%	93	14%	56	9%	37	6%	39	6%	657

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 1/1/13

Table 2. Males diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2002–2011²

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
2002	2	0%	10	1%	39	6%	73	10%	116	16%	162	23%	132	19%	75	11%	49	7%	24	3%	24	3%	706
2003	6	1%	9	1%	34	5%	46	7%	109	17%	148	24%	112	18%	74	12%	50	8%	22	3%	19	3%	629
2004	4	1%	9	1%	36	6%	63	10%	83	13%	147	23%	115	18%	86	14%	42	7%	29	5%	23	4%	637
2005	0	0%	5	1%	40	6%	67	11%	100	16%	109	17%	135	21%	95	15%	42	7%	24	4%	16	3%	633
2006	2	0%	9	2%	39	7%	56	10%	67	12%	109	20%	102	18%	79	14%	46	8%	28	5%	20	4%	557
2007	1	0%	6	1%	42	8%	55	11%	53	10%	98	19%	89	17%	80	15%	49	9%	25	5%	21	4%	519
2008	6	1%	12	2%	46	9%	72	14%	61	12%	53	10%	88	17%	79	15%	53	10%	28	5%	25	5%	523
2009	1	0%	14	3%	48	10%	53	10%	64	13%	67	13%	74	15%	90	18%	44	9%	25	5%	25	5%	505
2010	3	1%	7	1%	43	9%	52	11%	56	12%	70	15%	70	15%	78	17%	51	11%	18	4%	21	4%	469
2011	1	0%	12	3%	52	11%	57	12%	53	11%	57	12%	82	17%	66	14%	42	9%	25	5%	26	5%	473

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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 1/1/13

Table 3. Females diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2002–2011²

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
2002	2	1%	12	4%	31	9%	52	15%	69	20%	61	18%	51	15%	28	8%	15	4%	11	3%	5	1%	337
2003	3	1%	9	3%	23	8%	44	14%	49	16%	52	17%	49	16%	44	14%	14	5%	6	2%	11	4%	304
2004	6	2%	10	4%	18	7%	34	13%	45	17%	36	14%	48	18%	31	12%	25	9%	7	3%	6	2%	266
2005	5	2%	3	1%	19	8%	22	9%	40	17%	39	17%	44	19%	29	12%	16	7%	11	5%	7	3%	235
2006	2	1%	10	5%	21	10%	30	14%	29	13%	31	14%	36	16%	30	14%	12	5%	14	6%	6	3%	221
2007	3	1%	7	3%	13	6%	23	11%	30	14%	32	15%	37	18%	30	14%	11	5%	11	5%	10	5%	207
2008	0	0%	6	3%	11	6%	28	15%	29	15%	24	12%	30	16%	23	12%	20	10%	12	6%	10	5%	193
2009	2	1%	5	3%	9	5%	14	9%	26	16%	24	15%	26	16%	18	11%	18	11%	12	7%	10	6%	164
2010	3	2%	5	3%	16	9%	13	7%	24	13%	33	18%	23	13%	22	12%	17	9%	17	9%	11	6%	184
2011	2	1%	9	5%	8	4%	18	10%	27	15%	26	14%	28	15%	27	15%	14	8%	12	7%	13	7%	184

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 1/1/13

Table 4. People living with HIV/AIDS on December 31, 2012 by age at HIV infection diagnosis: Massachusetts¹

Age (years)	N	%
Under 13	339	2%
13 to 19	365	2%
20 to 24	1,450	8%
25 to 29	2,765	15%
30 to 34	3,679	20%
35 to 39	3,598	19%
40 to 44	2,772	15%
45 to 49	1,759	10%
50 to 54	913	5%
55 to 59	452	2%
60+	368	2%
Total	18,460	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 1/1/13

Table 5. People living with HIV/AIDS on December 31, 2012 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	58	<1%	58	1%	116	1%
20 to 24	187	1%	107	2%	294	2%
25 to 29	379	3%	148	3%	527	3%
30 to 34	591	4%	304	6%	895	5%
35 to 39	803	6%	503	9%	1,306	7%
40 to 44	1,428	11%	756	14%	2,184	12%
45 to 49	2,553	19%	1,027	19%	3,580	19%
50 to 54	2,878	22%	992	19%	3,870	21%
55 to 59	2,102	16%	748	14%	2,850	15%
60+	2,153	16%	658	12%	2,811	15%
Total	13,144	100%	5,315	100%	18,459	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 1/1/13

Table 6. People diagnosed with HIV infection by age at diagnosis and Health Service Region (HSR):¹ Massachusetts², 2009–2011³

HSR	Age at HIV Diagnosis (years)								Total ⁴ N
	13–19		20–24		13–24		25+		
	N	%	N	%	N	%	N	%	N
Boston	16	3%	62	10%	78	13%	521	86%	604
Central	5	3%	19	11%	24	14%	145	85%	171
Metro West	5	2%	25	8%	30	9%	292	90%	325
Northeast	7	2%	24	7%	31	10%	294	90%	326
Southeast	9	3%	24	9%	33	12%	245	88%	278
Western	10	5%	16	8%	26	13%	178	87%	205
Prison ⁵	0	0%	6	9%	6	9%	63	91%	69
Mass. Total	52	3%	176	9%	228	12%	1,739	88%	1,979

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 1/1/13

Table 7. Eight cities/towns¹ in Massachusetts² with the highest proportion of HIV infection diagnoses (HIV Dx) among adolescents and young adults (13–24 years old): 2009–2011³

Rank	City/Town	Number of HIV Dx among 13–24 year olds	Total Number of HIV Dx	Percent of Total HIV Dx
1	Fall River	5	27	19%
2	Holyoke	5	32	16%
3	Boston	73	559	13%
3	Worcester	11	87	13%
4	Lynn	5	46	11%
5	Springfield	10	96	10%
5	Lowell	5	52	10%
6	Brockton	5	62	8%

¹ Among cities/towns with at least 5 people diagnosed with HIV infection at ages 13–24 years within the three year period 2009 to 2011; 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 1/1/13

Table 8. People diagnosed with HIV infection, age at diagnosis by gender and race/ethnicity: Massachusetts^{1, 2}, 2009–2011²

	Age at HIV Diagnosis (years)							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	33	63%	143	81%	176	77%	1,266	73%
Female	19	37%	33	19%	52	23%	473	27%
Race:	N	%	N	%	N	%	N	%
White (NH) ³	9	17%	68	39%	77	34%	675	39%
Black (NH)	25	48%	55	31%	80	35%	577	33%
Hispanic/Latino	15	29%	45	26%	60	26%	425	24%
API ⁴	-- ⁵	-- ⁵	8	5%	11	5%	50	3%
Other/Unk. ⁵	-- ⁵	-- ⁵	0	0%	0	0%	12	1%
Total	52	100%	176	100%	228	100%	1,739	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 1/1/13

Table 9. People living with HIV/AIDS, age on December 31, 2012 by gender and race/ethnicity: Massachusetts¹

	Age (years) on December 31, 2012							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	58	50%	187	64%	245	60%	12,888	72%
Female	58	50%	107	36%	165	40%	5,136	28%
Race:	N	%	N	%	N	%	N	%
White (NH) ²	17	15%	78	27%	95	23%	7,931	44%
Black (NH)	60	52%	111	38%	171	42%	5,328	30%
Hispanic/Latino	37	32%	92	31%	129	31%	4,372	24%
API ³	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	295	2%
Other/Unk. ⁴	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	98	1%
Total	116	100%	294	116	410	100%	18,024	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 1/1/13

Table 10. People diagnosed with HIV by age at diagnosis and exposure mode: Massachusetts¹, 2009–2011²

By Exposure Mode:	Age at Diagnosis (years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	25	48%	112	64%	137	60%	671	39%
Injection Drug Use (IDU)	-- ⁶	-- ⁶	8	5%	9	4%	153	9%
MSM/IDU	-- ⁶	-- ⁶	7	4%	9	4%	44	3%
Total Heterosexual Sex (HTSX)	-- ⁶	-- ⁶	12	7%	15	7%	234	13%
• HTSX w/ an Injection Drug User	0	0%	0	0%	0	0%	47	3%
• HTSX w/ Bisexual male (females only)	0	0%	-- ⁶					
• Other HTSX ³	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶
• HTSX w/ a person w/ HIV or AIDS	-- ⁶	-- ⁶	11	6%	14	6%	177	10%
Blood/Blood Products	0	0%	0	0%	-- ⁶	-- ⁶	0	0%
Pediatric	-- ⁶	-- ⁶	0	0%	-- ⁶	-- ⁶	0	0%
Total Undetermined/Other	19	37%	37	21%	56	25%	637	37%
• Presumed HTSX ⁴	6	12%	11	6%	17	7%	198	11%
• Undetermined/Other ⁵	13	25%	26	15%	39	17%	439	25%
Total	52	100%	176	100%	228	100%	1,739	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 females 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 1/1/13

Note: The category of “presumed heterosexual” is used in Massachusetts to re-assign females 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 males. The rationale for the application of the presumed heterosexual exposure mode category to females 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 females 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, 2012, current age by exposure mode: Massachusetts¹

By Exposure Mode:	Age on December 31, 2012(years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	0	0%	94	32%	94	23%	6,627	37%
Injection Drug Use (IDU)	0	0%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	3,752	21%
MSM/IDU	0	0%	7	2%	7	2%	620	3%
Total Heterosexual Sex (HTSX)	-- ⁵	-- ⁵	11	4%	12	3%	2,635	15%
• HTSX w/ an Injection Drug User	0	0%	0	0%	0	0%	885	5%
• HTSX w/ Bisexual male (females only)	0	0%	0	0%	0	0%	45	<1%
• Other HTSX ²	-- ⁵	-- ⁵	0	0%	0	0%	46	<1%
• HTSX w/ a person w/ HIV or AIDS	-- ⁵	-- ⁵	11	4%	12	3%	1,659	9%
Blood/Blood Products	0	0%	-- ⁵					
Pediatric	105	91%	135	46%	240	59%	71	<1%
Occupational	0	0%	0	0%	0	0%	-- ⁵	-- ⁵
Total Undetermined	10	9%	46	16%	56	14%	4,247	24%
• Presumed HTSX ³	-- ⁵	-- ⁵	18	6%	21	5%	1,579	9%
• Undetermined ⁴	-- ⁵	-- ⁵	28	10%	35	9%	2,668	15%
Total	116	100%	294	100%	410	100%	18,024	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 females 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 1/1/13

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, 2012¹

Age:	N	%
Less than 13	26	8%
13–19	105	31%
20–24	135	40%
25 and over	71	21%
Total	337	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 1/1/13

Table 13. Adolescents and young adults 13–24 years old on December 31, 2012, who were exposed to HIV infection perinatally, or through other means before age 13, by gender and race/ethnicity¹

Gender:	N	%
Male	122	51%
Female	118	49%
Race/Ethnicity:	N	%
White (non-Hispanic)	50	21%
Black (non-Hispanic)	106	44%
Hispanic/Latino	81	34%
Asian/Pacific Islander	-- ²	-- ²
Other/Undetermined	-- ²	-- ²
Total	240	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 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 1/1/13

Table 14. People diagnosed with HIV infection between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹, 2009–2011²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	64	36%	13	25%
Black (non-Hispanic)	57	32%	23	44%
Hispanic/Latino	45	26%	15	29%
Asian/Pacific Islander	10	6%	-- ⁷	-- ⁷
Other/Unknown	0	0%	-- ⁷	-- ⁷
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	137	78%	N/A ³	N/A
Injection Drug Use (IDU)	-- ⁷	-- ⁷	8	15%
MSM/IDU	9	5%	N/A	N/A
Heterosexual sex (HTSX)	-- ⁷	-- ⁷	14	27%
Total Undetermined	27	15%	29	56%
• Presumed HTSX ⁴	N/A	N/A	17	33%
• Undetermined ⁵	27	15%	12	23%
Total⁶	176	100%	52	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 females 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 exposure modes.

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 1/1/13

Table 15. People diagnosed with HIV infection at 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹, 2009–2011²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	583	46%	92	19%
Black (non-Hispanic)	326	26%	251	53%
Hispanic/Latino	310	24%	115	24%
Asian/Pacific Islander	40	3%	10	2%
Other/Unknown	7	1%	5	1%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	671	53%	N/A ³	N/A
Injection Drug Use (IDU)	105	8%	48	10%
MSM/IDU	44	3%	N/A	N/A
Heterosexual sex (HTSX)	72	6%	162	34%
Total Undetermined	374	30%	263	56%
• Presumed HTSX ⁵	N/A	N/A	198	42%
• Undetermined ⁶	374	30%	65	14%
Total	1,266	100%	473	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 females 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 exposure modes.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/13

Table 16. People living with HIV/AIDS on December 31, 2012 between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	57	23%	38	23%
Black (non-Hispanic)	96	39%	75	45%
Hispanic/Latino	82	33%	47	28%
Asian/Pacific Islander	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Other/Unknown	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	94	38%	N/A ²	N/A
Injection Drug Use (IDU)	0	0%	-- ⁶	-- ⁶
MSM/IDU	7	3%	N/A	N/A
Heterosexual sex (HTSX)	0	0%	-- ⁶	-- ⁶
Other ³	122	50%	118	72%
Total Undetermined	22	9%	33	20%
• Presumed HTSX ⁴	N/A	N/A	21	13%
• Undetermined ⁵	22	9%	13	8%
Total	245	100%	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.

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 females 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 1/1/13

Table 17. People living with HIV/AIDS on December 31, 2012, 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	6,610	51%	1,321	26%
Black (non-Hispanic)	3,022	23%	2,306	45%
Hispanic/Latino	2,963	23%	1,409	27%
Asian/Pacific Islander	231	2%	64	1%
Other/Unknown	62	<1%	36	1%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	6,627	51%	N/A ²	N/A
Injection Drug Use (IDU)	2,479	19%	1,273	25%
MSM/IDU	620	5%	N/A	N/A
Heterosexual sex (HTSX)	782	6%	1,853	36%
Other ³	89	1%	54	1%
Total Undetermined	2,291	18%	1,956	38%
• Presumed HTSX ⁴	N/A	N/A	1,579	31%
• Undetermined ⁵	2,291	18%	377	7%
Total	12,888	100%	5,136	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 females 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 1/1/13

Table 18. People diagnosed with HIV infection between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹, 2009–2011²

Exposure Mode:	White (NH) ³		Black (NH)		Hispanic/Latino	
	N	%	N	%	N	%
Male-to-Male Sex (MSM)	51	66%	42	53%	34	57%
Injection Drug Use (IDU)	6	8%	0	0%	-- ⁷	-- ⁷
MSM/IDU	5	6%	-- ⁷	-- ⁷	0	0%
Heterosexual Sex (HTSX)	-- ⁷	-- ⁷	-- ⁷	-- ⁷	8	13%
Other ⁴	0	0%	0	0%	-- ⁷	-- ⁷
Total Undetermined	-- ⁷	-- ⁷	30	38%	-- ⁷	-- ⁷
• Presumed Heterosexual ⁵	-- ⁷	-- ⁷	10	13%	-- ⁷	-- ⁷
• Undetermined ⁶	9	12%	20	25%	9	15%
Total	77	100%	80	100%	60	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 females 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 1/1/13

Table 19. People living with HIV/AIDS on December 31, 2012 between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹

By Exposure Mode:	White (NH) ²		Black (NH)		Hispanic/Latino	
	N	%	N	%	N	%
Male-to-Male Sex (MSM)	32	34%	27	16%	27	21%
Injection Drug Use (IDU)	-- ⁶	-- ⁶	-- ⁶	-- ⁶	0	0%
MSM/IDU	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶	-- ⁶
Heterosexual Sex (HTSX)	-- ⁶	-- ⁶	6	4%	-- ⁶	-- ⁶
Other ³	50	53%	106	62%	81	63%
Total Undetermined	7	7%	29	17%	-- ⁶	-- ⁶
• Presumed Heterosexual ⁴	-- ⁶	-- ⁶	13	8%	-- ⁶	-- ⁶
• Undetermined ⁵	-- ⁶	-- ⁶	16	9%	12	9%
Total	95	100%	171	100%	129	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 females 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 1/1/13

Technical Notes:

Tables 20–22 include data reported by students in randomly selected Massachusetts public high schools every odd year from 1993 to 2011. 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 2011</i>		
By Behavior:	Percent of total responding yes to specified question	N¹ (total number of respondents for each question)
Ever had sexual intercourse	42.0%	2,513
Sexual intercourse before age 13	4.2%	2,512
4 or more lifetime sexual intercourse partners	11.4%	2,510
Sexual intercourse in last 3 months	30.4%	2,513
Condom used at last intercourse ²	57.7%	761
Alcohol/drugs used at last intercourse ²	22.7%	770
Ever been, gotten someone pregnant	5.3%	2,693
Ever had sexual contact against their will	9.5%	2,693

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, 1993–2011¹

Year	Males		Females		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

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, 1993–2011¹

Year	Males		Females		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

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