

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, 2011, this resulted in the removal of 2,297 HIV/AIDS cases, of which 739 have died and 1,558 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 of 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 all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (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 41% 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 efficient, 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 cases among males in alignment with CDC standards. The MDPH maintains presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. People diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2000–2009²

Age (years)	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2000	15	1%	27	2%	62	5%	132	11%	214	18%	283	24%	215	18%	111	9%	68	6%	31	3%	35	3%	1,193
2001	11	1%	16	2%	54	5%	105	11%	194	19%	227	23%	172	17%	126	13%	56	6%	14	1%	23	2%	998
2002	4	<1%	22	2%	72	7%	126	12%	191	18%	225	21%	181	17%	107	10%	65	6%	36	3%	27	3%	1,056
2003	9	1%	16	2%	56	6%	96	10%	158	17%	203	22%	160	17%	125	13%	64	7%	27	3%	29	3%	943
2004	10	1%	18	2%	62	7%	98	11%	137	15%	181	20%	163	18%	121	13%	67	7%	37	4%	29	3%	923
2005	5	1%	9	1%	62	7%	93	11%	141	16%	149	17%	177	20%	119	14%	55	6%	33	4%	22	3%	865
2006	4	1%	19	3%	59	8%	91	12%	86	11%	135	18%	133	18%	111	15%	57	8%	38	5%	23	3%	756
2007	3	<1%	11	2%	55	9%	67	11%	77	12%	113	18%	107	17%	99	16%	50	8%	27	4%	27	4%	636
2008	4	1%	12	2%	52	8%	95	15%	82	13%	65	11%	100	16%	89	14%	63	10%	32	5%	25	4%	619
2009	2	<1%	12	2%	54	10%	58	10%	79	14%	77	14%	80	14%	93	16%	54	10%	28	5%	30	5%	567

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 1/1/11

Table 2. Males diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2000–2009²

Age (years)	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2000	7	1%	12	1%	31	4%	79	9%	144	17%	202	24%	164	20%	87	10%	53	6%	28	3%	26	3%	833
2001	4	1%	10	1%	25	4%	72	10%	130	19%	174	25%	123	18%	89	13%	43	6%	13	2%	16	2%	699
2002	2	<1%	11	2%	41	6%	76	11%	118	17%	162	23%	132	18%	75	10%	50	7%	25	3%	23	3%	715
2003	6	1%	8	1%	33	5%	53	8%	108	17%	152	24%	113	18%	80	12%	50	8%	20	3%	18	3%	641
2004	4	1%	8	1%	42	6%	62	10%	89	14%	145	22%	118	18%	87	13%	42	6%	31	5%	23	4%	651
2005	0	0%	6	1%	39	6%	68	11%	100	16%	115	18%	137	22%	92	15%	39	6%	22	3%	14	2%	632
2006	2	<1%	9	2%	37	7%	60	11%	61	11%	104	19%	103	19%	83	15%	44	8%	24	4%	18	3%	545
2007	1	<1%	4	1%	42	9%	50	11%	47	10%	85	19%	78	17%	73	16%	41	9%	17	4%	19	4%	457
2008	4	1%	10	2%	44	10%	70	15%	55	12%	45	10%	75	16%	69	15%	46	10%	23	5%	17	4%	458
2009	1	<1%	8	2%	45	11%	45	11%	57	13%	58	14%	58	14%	77	18%	38	9%	18	4%	22	5%	427

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 1/1/11

Table 3. Females diagnosed with HIV infection by age at diagnosis: Massachusetts¹, 2000–2009²

Age (years)	<13		13–19		20–24		25–29		30–34		35–39		40–44		45–49		50–54		55–59		60+		Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2000	8	2%	15	4%	31	9%	53	15%	70	19%	81	23%	51	14%	24	7%	15	4%	3	1%	9	3%	360
2001	7	2%	6	2%	29	10%	33	11%	64	21%	53	18%	49	16%	37	12%	13	4%	1	<1%	7	2%	299
2002	2	1%	11	3%	31	9%	50	15%	73	21%	63	18%	49	14%	32	9%	15	4%	11	3%	4	1%	341
2003	3	1%	8	3%	23	8%	43	14%	50	17%	51	17%	47	16%	45	15%	14	5%	7	2%	11	4%	302
2004	6	2%	10	4%	20	7%	36	13%	48	18%	36	13%	45	17%	34	13%	25	9%	6	2%	6	2%	272
2005	5	2%	3	1%	23	10%	25	11%	41	18%	34	15%	40	17%	27	12%	16	7%	11	5%	8	3%	233
2006	2	1%	10	5%	22	10%	31	15%	25	12%	31	15%	30	14%	28	13%	13	6%	14	7%	5	2%	211
2007	2	1%	7	4%	13	7%	17	9%	30	17%	28	16%	29	16%	26	15%	9	5%	10	6%	8	4%	179
2008	0	0%	2	1%	8	5%	25	16%	27	17%	20	12%	25	16%	20	12%	17	11%	9	6%	8	5%	161
2009	1	1%	4	3%	9	6%	13	9%	22	16%	19	14%	22	16%	16	11%	16	11%	10	7%	8	6%	140

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 1/1/11

Table 4. People living with HIV/AIDS on December 31, 2010 by age at HIV infection diagnosis: Massachusetts¹

Age (years)	N	%
Under 13	329	2%
13 to 19	328	2%
20 to 24	1,388	8%
25 to 29	2,724	15%
30 to 34	3,622	21%
35 to 39	3,530	20%
40 to 44	2,611	15%
45 to 49	1,615	9%
50 to 54	816	5%
55 to 59	372	2%
60+	286	2%
Total	17,621	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 1/1/11

Table 5. People living with HIV/AIDS on December 31, 2010 by current age and gender: Massachusetts¹

Age (years)	Male		Female		State Total	
	N	%	N	%	N	%
Under 13	30	<1%	25	<1%	55	<1%
13 to 19	89	1%	85	2%	174	1%
20 to 24	207	2%	119	2%	326	2%
25 to 29	382	3%	201	4%	583	3%
30 to 34	611	5%	407	8%	1,018	6%
35 to 39	1,111	9%	624	12%	1,735	10%
40 to 44	2,134	17%	970	19%	3,104	18%
45 to 49	2,949	23%	1,031	20%	3,980	23%
50 to 54	2,392	19%	817	16%	3,209	18%
55 to 59	1,450	12%	421	8%	1,871	11%
60+	1,194	10%	372	7%	1,566	9%
Total	12,549	100%	5,072	100%	17,621	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 1/1/11

Table 6. People diagnosed with HIV infection by age at diagnosis and Health Service Region (HSR):¹ Massachusetts², 2007–2009³

HSR	Age at HIV Diagnosis (years)								Total ⁴ N
	13–19		20–24		13–24		25+		
	N	%	N	%	N	%	N	%	
Boston	8	1%	54	10%	62	12%	474	88%	539
Central	3	2%	16	10%	19	12%	131	86%	153
Metro West	6	2%	32	10%	38	12%	269	87%	309
Northeast	7	2%	30	10%	37	13%	258	87%	295
Southeast	4	1%	18	6%	22	8%	261	92%	283
Western	7	4%	8	4%	15	8%	170	91%	186
Prison ⁵	0	0%	3	5%	3	5%	53	95%	56
Mass. Total	35	2%	161	9%	196	11%	1,617	89%	1,822

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 1/1/11

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): 2007–2009³

Rank	City/Town	Number of HIV Dx among 13–24 year olds	Total Number of HIV Dx	Percent of Total HIV Dx
1	Lynn	7	38	18.4%
2	Waltham	5	28	17.9%
3	Malden	5	30	16.7%
4	Somerville	6	38	15.8%
5	Everett	3	24	12.5%
6	Boston	60	511	11.7%
7	Cambridge	5	47	10.6%
8	Worcester	9	90	10.0%
9	Lawrence	5	51	9.8%
9	New Bedford	4	41	9.8%

¹ Among cities/towns with over 20 reported HIV Infection diagnoses in the years 2007–2009; 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 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 1/1/11

Table 8. People diagnosed with HIV infection, age at diagnosis by gender and race/ethnicity: Massachusetts¹, 2007–2009²

	Age at HIV Diagnosis (years)							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	22	63%	131	81%	153	78%	1,183	73%
Female	13	37%	30	19%	43	22%	434	27%
Race:	N	%	N	%	N	%	N	%
White NH ³	7	20%	64	40%	71	36%	671	41%
Black NH	16	46%	50	31%	66	34%	522	32%
Hispanic/Latino	10	29%	42	26%	52	27%	380	24%
API ⁴	2	6%	5	3%	7	4%	37	2%
Other/Unk. ⁵	0	0%	0	0%	0	0%	7	<1%
Total	35	100%	161	100%	196	100%	1,617	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 10 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

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/11

Table 9. People living with HIV/AIDS, age on December 31, 2010 by gender and race/ethnicity: Massachusetts¹

	Age (years) on December 31, 2010							
	13–19		20–24		13–24		25+	
Gender:	N	%	N	%	N	%	N	%
Male	89	51%	207	63%	296	59%	12,223	72%
Female	85	49%	119	37%	204	41%	4,843	28%
Race:	N	%	N	%	N	%	N	%
White NH ²	47	27%	80	25%	127	25%	7,676	45%
Black NH	73	42%	131	40%	204	41%	4,908	29%
Hispanic/Latino	53	30%	105	32%	158	32%	4,166	24%
API ³	1	1%	9	3%	10	2%	236	1%
Other/Unk. ⁴	0	0%	1	<1%	1	<1%	80	<1%
Total	174	100%	326	100%	500	100%	17,066	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

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/11

Table 10. People diagnosed with HIV by age at diagnosis and exposure mode: Massachusetts¹, 2007–2009²

By Exposure Mode:	Age at Diagnosis (years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	18	51%	99	61%	117	60%	627	39%
Injection Drug Use (IDU)	1	3%	6	4%	7	4%	165	10%
MSM/IDU	0	0%	6	4%	6	3%	52	3%
Total Heterosexual Sex (HTSX)	4	11%	12	7%	16	8%	198	12%
• HTSX w/ an Injection Drug User	0	0%	2	1%	2	1%	40	2%
• HTSX w/ Bisexual male (females only)	0	0%	1	1%	1	1%	3	<1%
• Other HTSX ³	0	0%	0	0%	0	0%	3	<1%
• HTSX w/ a person w/ HIV or AIDS	4	11%	9	6%	13	7%	152	9%
Blood/Blood Products	0	0%	0	0%	0	0%	1	<1%
Pediatric	0	0%	0	0%	0	0%	0	0%
Total Undetermined/Other	12	34%	38	24%	50	26%	574	35%
• Presumed HTSX ⁴	4	11%	10	6%	14	7%	184	11%
• Undetermined/Other ⁵	8	23%	28	17%	36	18%	390	24%
Total	35	100%	161	100%	196	100%	1,617	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.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/11

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, 2010, current age by exposure mode: Massachusetts¹

By Exposure Mode:	Age on December 31, 2010 (years)							
	13–19		20–24		13–24		25+	
	N	%	N	%	N	%	N	%
Male-to-Male Sex (MSM)	7	4%	114	35%	121	24%	6,131	36%
Injection Drug Use (IDU)	0	0%	10	3%	10	2%	3,910	23%
MSM/IDU	1	1%	3	1%	4	1%	571	3%
Total Heterosexual Sex (HTSX)	2	1%	18	6%	20	4%	2,457	14%
• HTSX w/ an Injection Drug User	0	0%	3	1%	3	1%	897	5%
• HTSX w/ Bisexual male (females only)	0	0%	1	<1%	1	<1%	42	<1%
• Other HTSX ²	0	0%	0	0%	0	0%	31	<1%
• HTSX w/ a person w/ HIV or AIDS	2	1%	14	4%	16	3%	1,487	9%
Blood/Blood Products	0	0%	0	0%	0	0%	86	1%
Pediatric	149	86%	101	31%	250	50%	20	<1%
Occupational	0	0%	0	0%	0	0%	1	<1%
Total Undetermined	15	9%	80	24%	95	19%	3,890	23%
• Presumed HTSX ³	3	2%	36	11%	39	8%	1,451	9%
• Undetermined ⁴	12	7%	44	13%	56	11%	2,439	14%
Total	174	100%	326	100%	500	100%	17,066	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.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/11

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, 2010¹

Age:	N	%
Less than 13	55	17%
13–19	149	46%
20–24	101	31%
25 and over	20	6%
Total	325	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 1/1/11

Table 13. Adolescents and young adults 13–24 years old on December 31, 2010, who were exposed to HIV infection perinatally, or through other means before age 13, by gender and race/ethnicity¹

Gender:	N	%
Male	131	52%
Female	119	48%
Race/Ethnicity:	N	%
White (non-Hispanic)	55	22%
Black (non-Hispanic)	107	43%
Hispanic/Latino	86	34%
Other/Undetermined	2	<1%
Total	250	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 1/1/11

Table 14. People diagnosed with HIV infection between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹, 2007–2009²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	61	40%	10	23%
Black (non-Hispanic)	46	30%	20	47%
Hispanic/Latino	41	27%	11	26%
Asian/Pacific Islander	5	3%	2	5%
Other/Unknown	0	0%	0	0%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	117	76%	N/A ³	N/A
Injection Drug Use (IDU)	3	2%	4	9%
MSM/IDU	6	4%	N/A	N/A
Heterosexual sex (HTSX)	2	1%	14	33%
Other ⁴	0	0%	0	0%
Total Undetermined	25	16%	25	58%
• Presumed HTSX ⁵	N/A	N/A	14	33%
• Undetermined ⁶	25	16%	11	26%
Total	153	100%	43	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 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.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/11

Table 15. People diagnosed with HIV infection at 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹, 2007–2009²

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	581	49%	90	21%
Black (non-Hispanic)	304	26%	218	50%
Hispanic/Latino	262	22%	118	27%
Asian/Pacific Islander	31	3%	6	1%
Other/Unknown	5	<1%	2	<1%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	627	53%	N/A ³	N/A
Injection Drug Use (IDU)	105	9%	60	14%
MSM/IDU	52	4%	N/A	N/A
Heterosexual sex (HTSX)	68	6%	130	30%
Other ⁴	1	<1%	0	0%
Total Undetermined	330	28%	244	56%
• Presumed HTSX ⁵	N/A	N/A	184	42%
• Undetermined ⁶	330	28%	60	14%
Total	1,183	100%	434	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 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.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/11

Table 16. People living with HIV/AIDS on December 31, 2010 between 13–24 years of age, gender by race/ethnicity and exposure mode: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	81	27%	46	23%
Black (non-Hispanic)	112	38%	92	45%
Hispanic/Latino	97	33%	61	30%
Asian/Pacific Islander	6	2%	4	2%
Other/Unknown	0	0%	1	<1%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	121	41%	N/A ²	N/A
Injection Drug Use (IDU)	1	<1%	9	4%
MSM/IDU	4	1%	N/A	N/A
Heterosexual sex (HTSX)	2	1%	18	9%
Other ³	131	44%	119	58%
Total Undetermined	37	13%	58	28%
• Presumed HTSX ⁴	N/A	N/A	39	19%
• Undetermined ⁵	37	13%	19	9%
Total	296	100%	204	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 1/1/11

Table 17. People living with HIV/AIDS on December 31, 2010 25 years of age and older, gender by race/ethnicity and exposure mode: Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	6,364	52%	1,312	27%
Black (non-Hispanic)	2,807	23%	2,101	43%
Hispanic/Latino	2,814	23%	1,352	28%
Asian/Pacific Islander	185	2%	51	1%
Other/Unknown	53	<1%	27	1%
Exposure Mode:	N	%	N	%
Male-to-Male Sex (MSM)	6,131	50%	N/A ²	N/A
Injection Drug Use (IDU)	2,619	21%	1,291	27%
MSM/IDU	571	5%	N/A	N/A
Heterosexual sex (HTSX)	734	6%	1,723	36%
Other ³	70	1%	37	1%
Total Undetermined	2,098	17%	1,792	37%
• Presumed HTSX ⁴	N/A	N/A	1,451	30%
• Undetermined ⁵	2,098	17%	341	7%
Total	12,223	100%	4,843	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 1/1/11

Table 18. People diagnosed with HIV infection between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹, 2007–2009²

Exposure Mode:	White NH ³		Black NH		Hispanic/Latino	
	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Male-to-Male Sex (MSM)	47	66%	36	55%	30	58%
Injection Drug Use (IDU)	2	3%	0	0%	5	10%
MSM/IDU	4	6%	0	0%	2	4%
Heterosexual Sex (HTSX)	5	7%	5	8%	6	12%
Other ⁴	0	0%	0	0%	0	0%
Total Undetermined	13	18%	25	38%	9	17%
• Presumed Heterosexual ⁵	0	0%	10	15%	3	6%
• Undetermined ⁶	13	18%	15	23%	6	12%
Total	71	100%	66	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 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.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/11

Table 19. People living with HIV/AIDS on December 31, 2010 between 13–24 years of age, race/ethnicity by exposure mode: Massachusetts¹

By Exposure Mode:	White NH ²		Black NH		Hispanic/Latino	
	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
Male-to-Male Sex (MSM)	46	36%	41	20%	31	20%
Injection Drug Use (IDU)	3	2%	1	<1%	5	3%
MSM/IDU	2	2%	1	<1%	1	1%
Heterosexual Sex (HTSX)	5	4%	8	4%	7	4%
Other ³	55	43%	107	52%	86	54%
Total Undetermined	16	13%	46	23%	28	18%
• Presumed Heterosexual ⁴	3	2%	25	12%	10	6%
• Undetermined ⁵	13	10%	21	10%	18	11%
Total	127	100%	204	100%	158	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.

Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/11

Technical Notes:

Tables 20–22 include data reported by students in randomly selected Massachusetts public high schools every odd year from 1993 to 2009. 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 2009</i>		
By Behavior:	Percent of total responding yes to specified question	N¹ (total number of respondents for each question)
Ever had sexual intercourse	46.4%	2,480
Sexual intercourse before age 13	5.4%	2,488
4 or more lifetime sexual intercourse partners	13.0%	2,479
Sexual intercourse in last 3 months	34.6%	2,490
Condom used at last intercourse ²	57.5%	849
Alcohol/drugs used at last intercourse ²	23.5%	853
Ever been, gotten someone pregnant	5.5%	2,651
Ever had sexual contact against their will	11.3%	2,657

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, 1993–2009¹

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

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, 1993–2009¹

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

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