

Who is currently living with HIV/AIDS? Detailed data tables and technical notes

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 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.

These data represent only those individuals who tested positive for HIV infection, have sought and accessed medical care *and* have been reported to the HIV/AIDS Surveillance Program. Individuals who are unaware of their status, not in care, or not reported are not reflected.

The profile of people living with HIV/AIDS presented in “*Who is currently living with HIV/AIDS?*” can be used to inform planning for HIV care, treatment and support services, as well as the planning of prevention programs for people living with HIV/AIDS (positive prevention).

Table 1. People living with HIV/AIDS on December 31, 2010 by gender, race/ethnicity, place of birth and health service region: Massachusetts¹

People Living with HIV/AIDS on 12/31/10		
Gender:	N	%
Male	12,549	71%
Female	5,072	29%
Race/Ethnicity:	N	%
White, non-Hispanic	7,810	44%
Black, non-Hispanic	5,141	29%
Hispanic/Latino	4,341	25%
Asian/Pacific Islander	248	1%
Other/Unknown	81	<1%
Place of Birth:	N	%
US	11,768	67%
Puerto Rico/US Dependency ²	1,991	11%
Non-US	3,862	22%
Health Service Region³:	N	%
Boston HSR	5,625	32%
Central HSR	1,535	9%
Metro West HSR	2,455	14%
Northeast HSR	2,671	15%
Southeast HSR	2,412	14%
Western HSR	1,978	11%
Prison ⁴	941	5%
Total⁵	17,621	100%

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

² Ninety-six percent of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency.

³ 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.

⁴ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons are not an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include persons who were diagnosed with HIV/AIDS while in a correctional facility. These data do not reflect current incarceration status.

⁵ Total includes 4 people living with HIV/AIDS with unknown HSR.

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

Race/Ethnicity:	Male		Female	
	N	%	N	%
White, non-Hispanic	6,448	51%	1,362	27%
Black, non-Hispanic	2,935	23%	2,206	43%
Hispanic/Latino	2,921	23%	1,420	28%
Asian/Pacific Islander	192	2%	56	1%
Other/Unknown	53	<1%	28	1%
Total	12,549	100%	5,072	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 1/1/11

Table 3. People living with HIV/AIDS on December 31, 2010 by race/ethnicity and place of birth: Massachusetts¹

Race/Ethnicity:	US		Puerto Rico/ US Dependency ²		Non-US		Total
	N	%	N	%	N	%	N
White NH	7,351	94%	22	<1%	437	6%	7,810
Black NH	2,886	56%	17	<1%	2,238	44%	5,141
Hispanic/Latino	1,405	32%	1,952	45%	984	23%	4,341
API	60	24%	0	0%	188	76%	248
Other/Unknown	66	81%	0	0%	15	19%	81

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 Ninety-six percent of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency.

NH= Non-Hispanic, API=Asian/Pacific Islander

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 gender and place of birth: Massachusetts¹

Place of Birth:	Male		Female	
	N	%	N	%
United States (US)	8,956	71%	2,812	55%
Puerto Rico/US Dependency ²	1,339	11%	652	13%
Non-US	2,254	18%	1,608	32%
Total	12,549	100%	5,072	100%

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

² Ninety-six percent of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency.

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

Table 6. People living with HIV/AIDS by exposure mode: Massachusetts¹		
People Living with HIV/AIDS on 12/31/10		
Exposure Mode:	N	%
Male-to-male sex (MSM)	6,252	35%
Injection drug use (IDU)	3,920	22%
MSM/IDU	575	3%
Receipt of blood/blood products/other	87	<1%
Pediatric	325	2%
Total heterosexual sex (HTSX)	2,477	14%
• HTSX w/ an injection drug user	900	5%
• HTSX w/ bisexual male (females only)	43	<1%
• HTSX w/ a person w/ HIV or AIDS	31	<1%
• Other HTSX ²	1,503	9%
Total undetermined/other	3,985	23%
• Presumed heterosexual sex ³	1,490	8%
• Undetermined/other ⁴	2,495	14%
Total	17,621	100%

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

² Includes 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.

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

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 7. People living with HIV/AIDS on December 31, 2010 by gender and exposure mode: Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	6,252	50%	N/A	N/A
Injection drug use (IDU)	2,620	21%	1,300	26%
MSM/IDU	575	5%	N/A	N/A
Heterosexual sex	736	6%	1,741	34%
Other	231	2%	181	4%
Total undetermined/other	2,135	17%	1,850	36%
• Presumed heterosexual sex ²	N/A	N/A	1,490	29%
• Undetermined ³	2,135	17%	360	7%
Total	12,549	100%	5,072	100%

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

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

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

N/A=Not Applicable

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

Table 8. People living with HIV/AIDS on December 31, 2010 by race/ethnicity¹ and exposure mode: Massachusetts²

Exposure Mode:	White NH		Black NH		Hispanic/Latino		API	
	N	%	N	%	N	%	N	%
Male-male sex (MSM)	4,490	57%	791	15%	849	20%	97	39%
Injection drug use (IDU)	1,432	18%	930	18%	1,530	35%	15	6%
MSM/IDU	353	5%	106	2%	111	3%	2	1%
Heterosexual sex	554	7%	1,032	20%	844	19%	32	13%
Other	129	2%	158	3%	120	3%	4	2%
Total undetermined/other	852	11%	2,124	41%	887	20%	98	40%
• Pres. HTSX ³	218	3%	949	18%	299	7%	18	7%
• Undetermined ⁴	634	8%	1,175	23%	588	14%	80	32%
Total	7,810	100%	5,141	100%	4,341	100%	248	100%

¹ Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers.

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

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

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

NH = Non-Hispanic, API = Asian/Pacific Islander, Pres. HTSX = Presumed Heterosexual Sex

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

Table 9. Males living with HIV/AIDS on December 31, 2010 by race/ethnicity¹ and exposure mode: Massachusetts²

Exposure Mode:	White NH		Black NH		Hispanic/ Latino		API	
	N	%	N	%	N	%	N	%
Male-male sex (MSM)	4,490	70%	791	27%	849	29%	97	51%
Injection drug use (IDU)	820	13%	629	21%	1151	39%	13	7%
MSM/IDU	353	5%	106	4%	111	4%	2	1%
Heterosexual sex	141	2%	331	11%	249	9%	11	6%
Other	82	1%	83	3%	65	2%	1	1%
Undetermined ³	562	9%	995	34%	496	17%	68	35%
Total	6,448	100%	2,935	100%	2,921	100%	192	100%

¹ Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers
² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.
³ 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.
 NH = Non-Hispanic, API = Asian/Pacific Islander
 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. Females living with HIV/AIDS on December 31, 2010 by race/ethnicity¹ and exposure mode: Massachusetts²

Exposure Mode:	White NH		Black NH		Hispanic/ Latina		API	
	N	%	N	%	N	%	N	%
Injection drug use	612	45%	301	14%	379	27%	2	4%
Heterosexual sex	413	30%	701	32%	595	42%	21	38%
Other	47	3%	75	3%	55	4%	3	5%
Total undetermined/other	290	21%	1,129	51%	391	28%	30	54%
• Pres. HTSX ³	218	16%	949	43%	299	21%	18	32%
• Undetermined ⁴	72	5%	180	8%	92	6%	12	21%
Total	1,362	100%	2,206	100%	1,420	100%	56	100%

¹ Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers.
² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.
³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.
⁴ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up, and those with confirmed occupational exposure
 NH = Non-Hispanic, API = Asian/Pacific Islander, Pres. HTSX = Presumed Heterosexual Sex
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 11. People living with HIV/AIDS on December 31, 2010 by Health Service Region (HSR)¹ and gender: Massachusetts²

Health Service Region	Male		Female		Total
	N	%	N	%	N
Boston HSR	4,295	76%	1,330	24%	5,625
Central HSR	953	62%	582	38%	1,535
Metro West HSR	1,761	72%	694	28%	2,455
Northeast HSR	1,771	66%	900	34%	2,671
Southeast HSR	1,714	71%	698	29%	2,412
Western HSR	1,232	62%	746	38%	1,978
Prison ³	821	87%	120	13%	941
Massachusetts Total⁴	12,549	71%	5,072	29%	17,621

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, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ 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. These data do not reflect current incarceration status.

⁴ Mass. Total includes 4 people living with HIV/AIDS with unknown residence at time of report.

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. Percentage distribution of people living with HIV/AIDS on December 31, 2010 by Health Service Region (HSR)¹ and race/ethnicity: Massachusetts²

HSR	White NH	Black NH	Hispanic /Latino	API	Other/Und.	Total
Boston HSR	41%	38%	19%	1%	<1%	5,625
Central HSR	43%	23%	32%	1%	<1%	1,535
Metro West HSR	51%	34%	13%	2%	1%	2,455
Northeast HSR	44%	23%	30%	3%	<1%	2,671
Southeast HSR	63%	21%	15%	1%	<1%	2,412
Western HSR	31%	19%	48%	1%	1%	1,978
Prison ³	30%	30%	39%	<1%	1%	941
Total	44%	29%	25%	1%	<1%	17,621

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, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ 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. These data do not reflect current incarceration status.

NH= Non-Hispanic , API = Asian/Pacific Islander, Other/Und. = Other/Undetermined

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

Table 13. Percentage distribution of people living with HIV/AIDS on December 31, 2010 by Health Service Region (HSR)¹ and exposure mode: Massachusetts²

HSR	MSM	IDU	MSM/ IDU	HTSX	Other	Pres. HTSX ³	Unde- ter- mined ⁴	Total
Boston HSR	47%	14%	3%	12%	2%	8%	13%	5,625
Central HSR	23%	31%	3%	18%	3%	10%	12%	1,535
Metro West HSR	39%	13%	3%	13%	3%	10%	18%	2,455
Northeast HSR	30%	20%	3%	15%	3%	11%	18%	2,671
Southeast HSR	38%	23%	3%	15%	2%	7%	12%	2,412
Western HSR	24%	30%	3%	19%	3%	9%	12%	1,978
Prison ⁵	7%	68%	6%	5%	<1%	1%	12%	941
Total	35%	22%	3%	14%	2%	8%	14%	17,621

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, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

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

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

⁵ 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. These data do not reflect current incarceration status. MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

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