

Detailed Data Tables: Men Who Have Sex with Men (MSM)

Table 1. People diagnosed with HIV infection by exposure mode: Massachusetts, 2006–2008¹		
Exposure Mode:	HIV Diagnoses	
	N	%
Male-to-male sex (MSM)	786	40%
Injection Drug Use (IDU)	237	12%
MSM/IDU	56	3%
Receipt of Blood/Blood products	2	<1%
Pediatric	8	<1%
Total Heterosexual Sex (HTSX)	196	10%
• HTSX w/ an injection drug user	45	2%
• HTSX w/bisexual male	4	<1%
• HTSX w/ person who received blood/blood products	1	<1%
• HTSX w/ a person w/ HIV or AIDS	146	7%
Total Undetermined/Other	679	35%
• Presumed Heterosexual Sex ²	448	23%
• Undetermined/Other ³	231	12%
Total	1,964	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis
² Heterosexual sex with partners with unknown risk and HIV status
³ Includes those still being followed up for risk information, those who have died with no determined risk, those lost to follow-up, and confirmed occupational exposure
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Note: The category of “presumed heterosexual sex” is used in Massachusetts to re-assign people who are reported with no identified risk but who are known to have not reported any other risks except heterosexual sex with a partner of unknown HIV status or risk. Massachusetts uses this category to distinguish these cases from other undetermined cases about which we know less. Nationally, the Centers for Disease Control and Prevention categorizes “presumed heterosexual sex” 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 is for people in this category. Although a person may not report other risk behaviors such as injection drug use or male-to-male sex to his/her health care provider, it does not necessarily mean that he/she has not engaged in them. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.

Table 2. Males diagnosed with HIV infection by mode of exposure: Massachusetts, 2006–2008¹

HIV 2006–2008		
Mode:	N	%
Total Male-to-male sex (MSM)	842	59%
• MSM	786	55%
• MSM/Injection Drug Use (IDU)	56	4%
Non-MSM	585	41%
Total	1,427	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 3. People living with HIV/AIDS on December 31, 2009 by exposure mode: Massachusetts

HIV/AIDS		
Exposure Mode:	N	%
Male-to-male sex (MSM)	6,316	35%
Injection Drug Use (IDU)	4,285	24%
MSM/IDU	608	3%
Receipt of Blood/Blood products	99	1%
Pediatric	334	2%
Total Heterosexual Sex (HTSX)	2,478	14%
• HTSX w/ an Injection Drug User	954	5%
• HTSX w/Bisexual male	48	<1%
• HTSX w/ person who received blood/blood products	26	<1%
• HTSX w/ a person w/ HIV or AIDS	1,450	8%
Total Undetermined/Other	3,925	22%
• Presumed Heterosexual Sex ¹	2,815	16%
• Undetermined/Other ²	1,110	6%
TOTAL	18,045	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk, those lost to follow-up, and confirmed occupational exposure

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 4. Males living with HIV/AIDS on December 31, 2009 by mode of exposure: Massachusetts

Living with HIV/AIDS		
Mode:	N	%
Total Male-to-male sex (MSM)	6,924	54%
• MSM	6,316	49%
• MSM/Injection Drug Use (IDU)	608	5%
Non-MSM	5,954	46%
Total	12,878	100%

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 5. Percent of people diagnosed with HIV infection by Health Service Region (HSR)¹ and exposure mode: Massachusetts, 2006–2008²

HSR:	MSM ³	IDU ⁴	MSM/ IDU	HTSX ⁵	Other ⁶	Pres. HTSX ⁷	Undet. ⁸	Total
Boston HSR	49%	8%	4%	7%	1%	21%	10%	599
Central HSR	30%	15%	1%	16%	0%	31%	8%	174
Metro West HSR	43%	9%	3%	11%	1%	20%	13%	309
Northeast HSR	34%	10%	3%	8%	1%	29%	16%	319
Southeast HSR	42%	12%	2%	11%	1%	20%	12%	274
Western HSR	32%	20%	1%	13%	0%	23%	10%	216
Prison ⁹	13%	44%	7%	8%	0%	14%	14%	71
MA Total	40%	12%	3%	10%	1%	23%	12%	1,964

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 Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

³ MSM = Male-to-male sex

⁴ IDU = Injection Drug Use

⁵ HTSX = Heterosexual Sex

⁶ Other includes pediatric and receipt of blood/blood products

⁷ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁸ Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

⁹ 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 1/1/10

Table 6. Percentage distribution of people living with HIV/AIDS on December 31, 2009 by Health Service Region (HSR)¹ and exposure mode: Massachusetts

HSR	MSM ²	IDU ³	MSM/ IDU	HTSX ⁴	Other ⁵	Pres. HTSX ⁶	Undet. ⁷	Total
Boston HSR	47%	16%	3%	12%	2%	15%	6%	5,786
Central HSR	23%	33%	3%	18%	3%	17%	4%	1,621
Metro West HSR	39%	14%	3%	12%	3%	20%	9%	2,428
Northeast HSR	31%	21%	3%	15%	3%	20%	8%	2,659
Southeast HSR	38%	24%	3%	15%	3%	12%	6%	2,470
Western HSR	23%	33%	4%	19%	3%	14%	5%	2,118
Prison ⁸	6%	70%	6%	5%	<1%	8%	5%	953
MA Total	35%	24%	3%	14%	2%	16%	6%	18,045

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 MSM = Male-to-male sex

³ IDU = Injection Drug Use

⁴ HTSX = Heterosexual Sex

⁵ Other includes pediatric and receipt of blood/blood products

⁶ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁷ Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

⁸ 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 1/1/10

Table 7. Ten cities/towns¹ in Massachusetts with the highest proportion of Male-to-Male Sex (MSM) as primary reported exposure mode among HIV infection diagnoses (HIV Dx): 2006–2008²

Rank	City/Town	Number of HIV DX among MSM	Percent of Total HIV DX
1	Provincetown	20	95.2%
2	Somerville	24	60.0%
2	Everett	15	60.0%
2	Medford	15	60.0%
3	Cambridge	28	58.3%
4	Boston	303	53.8%
5	Malden	15	41.7%
6	Waltham	9	36.0%
7	Quincy	10	35.7%
8	Lynn	14	34.1%
9	Fall River	8	32.0%
10	Springfield	28	27.5%

¹ Among cities/towns with over 20 reported HIV Infection diagnoses in the years 2006–2008. Note: 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 Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 8. Males diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts, before 1999, 1999–2008¹

	MSM ²		IDU ³		MSM/ IDU		HTSX ⁴		Other ⁵		Pres. HTSX ⁶		Undeter- -mined ⁷		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	7,676	48%	5,062	32%	893	6%	563	4%	488	3%	655	4%	568	4%	15,905
1999	385	41%	274	29%	48	5%	71	7%	14	1%	113	12%	43	5%	948
2000	369	43%	188	22%	30	3%	68	8%	13	2%	129	15%	66	8%	863
2001	322	44%	150	20%	32	4%	74	10%	5	1%	101	14%	48	7%	732
2002	346	46%	145	19%	25	3%	58	8%	5	1%	125	17%	49	7%	753
2003	340	50%	110	16%	28	4%	46	7%	10	1%	88	13%	63	9%	685
2004	321	46%	109	16%	22	3%	48	7%	4	1%	112	16%	76	11%	692
2005	336	51%	97	15%	23	3%	32	5%	0	0%	104	16%	66	10%	658
2006	322	57%	57	10%	13	2%	35	6%	2	<1%	80	14%	54	10%	563
2007	225	50%	58	13%	20	4%	18	4%	2	<1%	64	14%	60	13%	447
2008	239	57%	35	8%	23	6%	20	5%	1	<1%	54	13%	45	11%	417

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² MSM = Male-to-male sex

³ IDU = Injection Drug Use

⁴ HTSX = Heterosexual Sex

⁵ Other includes pediatric and receipt of blood/blood products

⁶ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁷ Undetermined includes 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 1/1/10

Table 9. Males diagnosed with HIV infection by mode of exposure and race/ethnicity: Massachusetts, 2006–2008¹

Race	MSM ²		MSM/IDU ³		MSM + MSM/IDU		Non- MSM/Unknown Males Only ⁴	
	N	%	N	%	N	%	N	%
White NH ⁵	509	65%	43	77%	552	66%	149	25%
Black NH	98	12%	5	9%	103	12%	232	40%
Hispanic	157	20%	7	13%	164	19%	187	32%
API ⁶	19	2%	1	2%	20	2%	15	3%
Other/Undet. ⁷	3	<1%	0	0%	3	<1%	2	<1%
Total	786	100%	56	100%	842	100%	585	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² MSM = Male-to-male sex

³ MSM/IDU = Male-to-male sex and Injection Drug Use

⁴ Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk

⁵ NH = Non-Hispanic

⁶ API = Asian/Pacific Islander

⁷ Other/Undet. = Other/Undetermined; includes American Indian/Alaska Native and Undetermined Race/Ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 10. Males living with HIV/AIDS on December 31, 2009 by mode of exposure and race/ethnicity: Massachusetts

Race	MSM ¹		MSM/IDU ²		MSM + MSM/IDU		NON- MSM/Unknown Males Only ³	
	N	%	N	%	N	%	N	%
White NH ⁴	4,566	72%	366	60%	4,932	71%	1,663	28%
Black NH	778	12%	110	18%	888	13%	2,074	35%
Hispanic	854	14%	128	21%	982	14%	2,095	35%
API ⁵	91	1%	2	<1%	93	1%	95	2%
Other/Undet. ⁶	27	<1%	2	<1%	29	<1%	27	<1%
Total	6,316	100%	608	100%	6,924	100%	5,954	100%

¹ MSM = Male-to-male sex

² MSM/IDU = Male-to-male sex and Injection Drug Use

³ Includes males whose primary reported mode of exposure was injection drug use with no reported male-to-male sex, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk

⁴ NH = Non-Hispanic

⁵ API = Asian/Pacific Islander

⁶ Other/Undet. = Other/Undetermined; includes American Indian/Alaska Native and Undetermined Race/Ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 11. Males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2006–2008

Exposure Mode	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	99	74%	115	66%	91	56%	145	61%	148	60%	92	42%	52	40%	22	40%	22	33%
IDU	0	0%	5	4%	11	6%	17	10%	19	8%	22	9%	30	14%	31	24%	8	15%	7	11%
MSM/IDU	0	0%	6	5%	10	6%	11	7%	7	3%	13	5%	6	3%	2	2%	0	0%	1	2%
HTSX	0	0%	3	2%	5	3%	8	5%	10	4%	13	5%	16	7%	8	6%	5	9%	5	8%
Other	2	100%	1	1%	0	0%	0	0%	1	0%	0	0%	1	0%	0	0%	0	0%	0	0%
Total																				
Undetermined	0	0%	19	14%	33	19%	36	23%	56	24%	52	21%	72	33%	38	29%	20	36%	31	47%
• Pres. HTSX ¹	0	0%	7	5%	19	11%	27	17%	31	13%	29	12%	41	19%	22	17%	5	9%	17	26%
• Undetermined ²	0	0%	12	9%	14	8%	9	6%	25	11%	23	9%	31	14%	16	12%	15	27%	14	21%
Total	2	100%	133	100%	174	100%	163	100%	238	100%	248	100%	217	100%	131	100%	55	100%	66	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

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 1/1/10

Table 12. White (non-Hispanic) males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2006–2008

Exposure Mode	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	42	79%	61	73%	55	76%	84	76%	105	75%	80	70%	44	68%	18	62%	20	57%
IDU	0	0%	1	2%	6	7%	4	6%	7	6%	9	6%	9	8%	10	15%	3	10%	1	3%
MSM/IDU	0	0%	4	8%	8	10%	9	13%	5	5%	8	6%	6	5%	2	3%	0	0%	1	3%
HTSX	0	0%	2	4%	1	1%	0	0%	1	1%	5	4%	4	4%	1	2%	1	3%	3	9%
Other	0	0%	0	0%	0	0%	0	0%	1	1%	0	0%	1	1%	0	0%	0	0%	0	0%
Total Undetermined	0	0%	4	8%	7	8%	4	5%	12	11%	13	9%	14	13%	8	13%	7	24%	10	28%
• Pres. HTSX ¹	0	0%	1	2%	2	2%	3	4%	3	3%	3	2%	3	3%	3	5%	1	3%	6	17%
• Undetermined ²	0	0%	3	6%	5	6%	1	1%	9	8%	10	7%	11	10%	5	8%	6	21%	4	11%
Total	0	0%	53	100%	83	100%	72	100%	110	100%	140	100%	114	100%	65	100%	29	100%	35	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

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 1/1/10

Table 13. Black (non-Hispanic) males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2006–2008

Exposure Mode	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	28	76%	17	52%	10	31%	14	29%	16	31%	5	8%	5	14%	2	10%	1	6%
IDU	0	0%	0	0%	0	0%	1	3%	2	4%	5	10%	10	17%	8	23%	3	15%	2	13%
MSM/IDU	0	0%	1	3%	2	6%	2	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
HTSX	0	0%	1	3%	2	6%	3	9%	5	10%	5	10%	5	8%	2	6%	3	15%	2	13%
Other	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total Undetermined	0	0%	7	19%	12	36%	16	50%	28	57%	25	49%	40	67%	20	57%	12	60%	11	69%
• Pres. HTSX ¹	0	0%	3	8%	8	24%	14	44%	20	41%	15	29%	31	52%	14	40%	4	20%	7	44%
• Undetermined ²	0	0%	4	11%	4	12%	2	6%	8	16%	10	20%	9	15%	6	17%	8	40%	4	25%
Total	2	100%	37	100%	33	100%	32	100%	49	100%	51	100%	60	100%	35	100%	20	100%	16	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

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 1/1/10

Table 14. Hispanic males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2006–2008

Exposure Mode	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	27	69%	32	64%	22	45%	40	57%	24	46%	6	15%	3	10%	2	33%	1	7%
IDU	0	0%	3	8%	5	10%	10	20%	10	14%	8	15%	11	28%	13	43%	2	33%	4	27%
MSM/IDU	0	0%	1	3%	0	0%	0	0%	2	3%	4	8%	0	0%	0	0%	0	0%	0	0%
HTSX	0	0%	0	0%	2	4%	4	8%	4	6%	3	6%	7	18%	5	17%	1	17%	0	0%
Other	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total																				
Undetermined	0	0%	7	18%	11	22%	13	26%	14	20%	13	25%	16	41%	9	30%	1	17%	10	67%
• Pres. HTSX ¹	0	0%	3	8%	8	16%	8	16%	7	10%	10	19%	7	18%	4	13%	0	0%	4	27%
• Undetermined ²	0	0%	4	10%	3	6%	5	10%	7	10%	3	6%	9	23%	5	17%	1	17%	6	40%
Total	0	0%	39	100%	50	100%	49	100%	70	100%	52	100%	40	100%	30	100%	6	100%	15	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

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 1/1/10

Table 15. Males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2006–2008¹

Years:	MSM ²		MSM/IDU ³		MSM + MSM/IDU		Non-MSM/Unknown Males Only ⁴	
	N	%	N	%	N	%	N	%
Less than 13	0	0%	0	0%	0	0%	2	<1%
13 to 19	17	2%	0	0%	17	2%	4	1%
20 to 24	82	10%	6	11%	88	10%	24	4%
25 to 29	115	15%	10	18%	125	15%	49	8%
30 to 34	91	12%	11	20%	102	12%	61	10%
35 to 39	145	18%	7	13%	152	18%	86	15%
40 to 44	148	19%	13	23%	161	19%	87	15%
45 to 49	92	12%	6	11%	98	12%	119	20%
50 to 54	52	7%	2	4%	54	6%	77	13%
55 to 59	22	3%	0	0%	22	3%	33	6%
60+	22	3%	1	2%	23	3%	43	7%
Total	786	100%	56	100%	842	100%	585	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis
² MSM = Male-to-male sex
³ MSM/IDU = Male-to-male sex and Injection Drug Use
⁴ Includes males whose primary reported mode of exposure was injection drug use with no reported male-to-male sex, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 16. Males diagnosed with HIV infection by mode of exposure and place of birth: Massachusetts, 2006–2008¹

	MSM ²		MSM/IDU ³		MSM + MSM/IDU		Non-MSM/Unknown Males Only ⁴	
	N	%	N	%	N	%	N	%
United States	621	79%	51	91%	672	80%	296	51%
PR/US Depen. ⁵	29	4%	3	5%	32	4%	84	14%
Non-US	136	17%	2	4%	138	16%	205	35%
Total	786	100%	56	100%	842	100%	585	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis
² MSM = Male-to-male sex
³ MSM/IDU = Male-to-male sex and Injection Drug Use
⁴ Includes males whose primary reported mode of exposure was injection drug use with no reported male-to-male sex, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk
⁵ PR/US Depen. = Puerto Rico/US Dependency; 97% of people diagnosed with HIV infection from 2006–2008 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands and 2% were born in an unknown US dependency
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/10

Table 17. Males living with HIV/AIDS on December 31, 2009 by mode of exposure and place of birth: Massachusetts

	MSM ¹		MSM/IDU ²		MSM + MSM/IDU		Non-MSM/Unknown Males Only ³	
	N	%	N	%	N	%	N	%
United States	5,366	85%	498	82%	5,864	85%	3,352	56%
PR/US Depen. ⁴	196	3%	75	12%	271	4%	1,198	20%
Non-US	754	12%	35	6%	789	11%	1,404	24%
Total	6,316	100%	608	100%	6,924	100%	5,954	100%

¹ MSM = Male-to-male sex

² MSM/IDU = Male-to-male sex and Injection Drug Use

³ Includes males whose primary reported mode of exposure was injection drug use with no reported male-to-male sex, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk

⁴ PR/US Depen. = Puerto Rico/US Dependency; On 12/31/08, 96% 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 1/1/10

Table 18. MSM¹ diagnosed with HIV infection by race/ethnicity and place of birth: Massachusetts, 2006–2008

Place of Birth	White Non-Hispanic		Black Non-Hispanic		Hispanic	
	N	%	N	%	N	%
United States	476	94%	77	79%	59	38%
PR/US Depen. ²	1	<1%	0	0%	28	18%
Non-US	32	6%	21	21%	70	45%
Total	509	100%	98	100%	157	100%

¹ Includes primary reported mode of exposure as male-to-male sex (MSM)

² PR/US Depen. = Puerto Rico/US Dependency; 97% of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam 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 1/1/10

Table 19. MSM¹ living with HIV/AIDS on December 31, 2009 by race/ethnicity and place of birth: Massachusetts

MSM	White Non-Hispanic		Black Non-Hispanic		Hispanic	
	N	%	N	%	N	%
US	4,319	95%	675	87%	313	37%
PR/US Depen. ²	12	<1%	2	<1%	182	21%
Non-US	235	5%	101	13%	359	42%
Total	4,566	100%	778	100%	854	100%

¹ Includes primary reported mode of exposure as male-to-male sex (MSM)

² PR/US Depen. = Puerto Rico/US Dependency; 96% 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 1/1/10

Technical Notes:

Tables 20–23 include data reported by Massachusetts residents through anonymous telephone interviews from 2000 to 2008. This ongoing random-digit-dial telephone survey, the Behavioral Risk Factor Surveillance System (BRFSS), covers a broad range of topic areas (including risk related to sexual activity) and is part of a CDC-funded national survey program.

Table 20. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64¹ years by sex of sexual partner(s) during the past 12 months: Massachusetts, 2000–2008			
Males ages 18–64			
Year	Same-Sex/ Both Sexes	Opposite Sex	N
2000	6.2%	93.8%	1,527
2001	4.3%	95.7%	1,528
2002	8.5%	91.5%	952
2003	7.2%	92.8%	894
2004	9.4%	90.6%	977
2005	4.9%	95.1%	834
2006	5.4%	94.6%	1,217
2007	6.5%	93.6%	841
2008	5.2%	94.8%	1,305

¹ Sexually active in past year
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS)

Table 21. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64¹ years reporting same-sex partner² by condom use at last sexual encounter³ and year: Massachusetts, 2000–2007

Year	Used Condom (%)	Did not Use Condom (%)	Total (N) ⁴
2000	34%	66%	94
2001	38%	63%	64
2002	46%	54%	81
2003	39%	61%	63
2004	42%	58%	91
2005	56%	44%	39
2006	44%	56%	60
2007	33%	67%	51
2008	32%	68%	60

¹ Sexually active in past year

² During the past 12 months

³ Includes oral, vaginal, or anal sex (with either a male or female partner) but not masturbation

⁴ Annual number of male respondents reporting same sex partner

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2000–2007

Table 22. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64¹ years reporting same-sex partner² by race/ethnicity: Massachusetts, 2007–2008

Race/Ethnicity:	Males Reporting Same-Sex Partner	
	N	%
White (Non-Hispanic)	1,759	4.3%
Black (Non-Hispanic)	103	2.9%
Hispanic	184	6.2%

¹ Sexually active in past year

² During the past 12 months

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2007–2008

Table 23. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64¹ reporting same-sex partner (or opposite- and same-sex partners)² compared to male respondents reporting only opposite-sex partner² by number of sexual partners in the past year and condom use at last sexual encounter: Massachusetts, 2007–2008

	Males Reporting Same-Sex Partner or Opposite- and Same-Sex Partners	Males Reporting Only Opposite-Sex Partner
	%	%
Number of Sexual Partners:		
1 partner	71.8%	91.0%
2 partners	8.7%	4.1%
3 or more partners	19.5%	4.9%
Total N	108	2,026
Condom Use:	%	%
Yes	32.7%	24.2%
No	67.3%	75.8%
Total N	111	2,026
¹ Sexually active in past year		
² During the past 12 months		
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2007–2008		

Technical Notes:

Tables 24–26 include data reported by students in randomly selected Massachusetts high schools every odd year from 1993 to 2007. 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 24. Percentage of male respondents by sex of sexual partner(s) and year: Massachusetts Youth Risk Behavior Survey, 1993–2007¹				
Year	Same-Sex/ Both Sexes		Opposite-Sex	
	%	Total N²	%	Total N²
1993	3.9%	56	56.6%	829
1995	2.5%	44	53.1%	955
1997	3.5%	69	48.7%	941
1999	4.2%	89	54.5%	1,169
2001	3.0%	63	55.0%	1,080
2003	3.5%	59	53.6%	931
2005	4.9%	79	56.2%	881
2007	4.9%	70	56.9%	843

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 of partner (unweighted). The number of respondents for each question varies from year to year
 Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 1993–2007

	Sex of Partner			
	Opposite-Sex		Same-Sex/ Both Sexes	
By Behavior:	%¹	Total N²	%¹	Total N²
Ever had sexual intercourse ³	74.4%	753	76.0%	49
Sexual intercourse before age 13	12.5%	752	34.6%	50
4 or more lifetime sexual intercourse partners	22.7%	743	36.7%	47
4 or more sexual intercourse partners in last 3 months	5.4%	752	13.5%	50
Alcohol/drugs used at last intercourse ⁴	26.2%	391	50.0%	27
Condom used at last intercourse ⁴	65.0%	392	38.5%	27
Ever been diagnosed with any STD	2.7%	836	11.1%	68
Ever injected illegal drugs	3.3%	834	20.6%	63

¹ % = percent of total responding "yes" to specified question
² N = total number of respondents (unweighted) by sex of partner for each question. The number of respondents for each question varies because some survey participants do not answer all questions
³ Among males who reported any sexual contact with opposite sex partner, same sex partner, or both
⁴ Among males reporting sexual intercourse in the past three months
 Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 2007

Table 26. Percentage of Massachusetts Youth Risk Behavior Survey (YRBS) male respondents reporting condom use at last sexual intercourse¹ by year and sex of partner: Massachusetts, 1993–2007

Year	Opposite-Sex		Same-Sex/ Both Sexes		Total	
	%	Total N ²	%	Total N ²	%	Total N ²
1993	58.5%	384	42.3%	24	57.4%	409
1995	60.3%	519	40.0%	28	59.9%	623
1997	65.4%	480	45.5%	34	64.2%	517
1999	64.4%	542	39.1%	44	62.6%	589
2001	63.6%	506	18.5%	27	61.6%	553
2003	62.0%	395	29.6%	27	60.3%	424
2005	72.7%	403	56.6%	36	71.6%	442
2007	65.0%	392	38.5%	27	63.4%	419

¹ Among youth reporting sexual intercourse in the past three months

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

Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 1993–2007

Table 27. Reported infectious syphilis cases that were among men who have sex with men (MSM): Massachusetts, 2000–2009

Year	Number of Cases among MSM	Total Number of Cases	Proportion of Cases among MSM
2000	33	142	23%
2001	52	105	50%
2002	117	208	56%
2003	178	260	68%
2004	146	209	70%
2005	159	222	72%
2006	156	218	71%
2007	184	268	69%
2008	302	369	82%
2009 ¹	293	377	78%

¹ 2009 data are preliminary

Data Source: MDPH Division of STD Prevention

Table 28. Reported infectious syphilis cases among men who have sex with men by HIV status and year of diagnosis: Massachusetts, 2001–2009

Year	HIV-Positive		HIV-Negative/ Unknown Serostatus		Total
	N	%	N	%	N
2001	6	12%	46	88%	52
2002	49	42%	68	58%	117
2003	73	41%	105	59%	178
2004	58	40%	88	60%	146
2005	83	52%	76	48%	159
2006	74	47%	82	53%	156
2007	89	48%	95	52%	184
2008	124	41%	178	59%	302
2009 ¹	119	41%	174	59%	293

¹ 2009 data are preliminary
 Note: HIV status of syphilis cases is not available for 2000
 Data Source: MDPH Division of STD Prevention

Table 29. Reported AIDS cases by exposure mode and year of diagnosis: Massachusetts, selected years, 1985–2008

Year	MSM ¹		IDU ²		MSM/ IDU		HTSX ³		Other ⁴		Pres. HTSX ⁵		Undet. ⁶		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1985	141	62%	34	15%	12	5%	8	4%	12	5%	18	8%	3	1%	228
1990	477	44%	344	32%	45	4%	75	7%	56	5%	43	4%	39	4%	1,079
1995	451	32%	585	41%	68	5%	166	12%	34	2%	71	5%	52	4%	1,427
1999	239	25%	378	40%	34	4%	114	12%	5	1%	153	16%	26	3%	949
2000	183	23%	280	35%	20	2%	134	17%	10	1%	146	18%	33	4%	806
2001	179	25%	216	30%	33	5%	112	15%	13	2%	134	18%	41	6%	728
2002	182	26%	199	28%	26	4%	116	16%	10	1%	136	19%	44	6%	713
2003	153	25%	175	29%	20	3%	89	15%	9	1%	111	18%	55	9%	612
2004	172	25%	171	25%	24	4%	90	13%	11	2%	148	22%	62	9%	678
2005	179	27%	171	26%	20	3%	95	15%	4	1%	124	19%	58	9%	651
2006	194	33%	107	18%	16	3%	87	15%	6	1%	130	22%	46	8%	586
2007	135	29%	104	22%	12	3%	63	13%	11	2%	100	21%	42	9%	467
2008	117	36%	57	18%	10	3%	33	10%	3	1%	67	21%	37	11%	324

¹ MSM = Male-to-male sex
² IDU = Injection Drug Use
³ HTSX = Heterosexual Sex
⁴ Other includes pediatric and receipt of blood/blood products
⁵ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status
⁶ Undet. = Undetermined; includes 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 1/1/10

Table 30. Deaths among persons reported with HIV and AIDS by exposure mode and year of death: Massachusetts, 1999–2008

	MSM ¹		IDU ²		MSM/ IDU		HTSX ³		Other ⁴		Pres. HTSX ⁵		Undet. ⁶		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1999	72	18%	214	54%	18	5%	33	8%	13	3%	28	7%	20	5%	398
2000	76	20%	203	54%	16	4%	25	7%	12	3%	28	7%	16	4%	376
2001	91	22%	218	52%	20	5%	29	7%	6	1%	30	7%	29	7%	423
2002	77	20%	205	54%	17	4%	36	9%	9	2%	22	6%	13	3%	379
2003	74	19%	198	50%	17	4%	48	12%	8	2%	29	7%	23	6%	397
2004	60	18%	168	51%	20	6%	28	8%	8	2%	26	8%	20	6%	330
2005	47	16%	164	54%	14	5%	33	11%	3	1%	25	8%	17	6%	303
2006	60	20%	147	50%	16	5%	26	9%	3	1%	24	8%	18	6%	294
2007	50	19%	120	46%	19	7%	28	11%	6	2%	24	9%	14	5%	261
2008	47	19%	123	49%	12	5%	22	9%	3	1%	26	10%	17	7%	250

¹ MSM = Male-to-male sex

² IDU = Injection Drug Use

³ HTSX = Heterosexual Sex

⁴ Other includes pediatric and receipt of blood/blood products

⁵ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁶ Undet. = Undetermined; includes 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 1/1/10