

Regional HIV/AIDS Epidemiologic Profile of Boston Health Service Region, Massachusetts: 2010

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2009 Boston Health Service Region, Massachusetts

	N	%
People Living with HIV/AIDS	5,786	57%
People Reported with HIV or AIDS who are Deceased	4,289	43%
Total Number of People Reported with HIV Infection or AIDS	10,075	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

Table 2. Average annual rate of HIV infection diagnosis from 2006 to 2008 and HIV/AIDS prevalence rate on 12/31/09¹: Boston Health Service Region, Massachusetts

Average annual HIV diagnosis rate from 2006–2008	Average rate per 100,000	Average annual number of HIV diagnoses
Boston Health Service Region, MA	26.7	199.7
Massachusetts Total	10.3	654.7

HIV/AIDS prevalence rate on 12/31/09	Rate per 100,000	Number of people living with HIV/AIDS
Boston Health Service Region, MA	774.0	5,786
Massachusetts Total	284.2	18,045

¹ Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 1999–2008, Boston Health Service Region, Massachusetts

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
1999	3,931	106	396
2000	4,237	108	414
2001	4,439	120	322
2002	4,695	111	367
2003	4,914	112	331
2004	5,123	90	299
2005	5,318	89	284
2006	5,479	79	240
2007	5,588	75	184
2008	5,695	68	175 ³

¹ Number of People living with HIV/AIDS on 12/31 of each year

² Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis

³ 2008 HIV diagnosis data are preliminary

Data source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

Table 4. People diagnosed with HIV infection from 2006–2008¹ and people living with HIV/AIDS on December 31, 2009 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Boston Health Service Region, Massachusetts

	HIV Infection Diagnoses		PLWH/A	
Gender:	N	%	N	%
Male	478	80%	4,427	77%
Female	121	20%	1,359	23%
Place of Birth:	N	%	N	%
US	394	66%	4,033	70%
Puerto Rico/US Dependency ²	31	5%	381	7%
Non-US	174	29%	1,372	24%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	235	39%	2,384	41%
Black (non-Hispanic)	232	39%	2,202	38%
Hispanic	118	20%	1,103	19%
Other/Undetermined ³	14	2%	97	2%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	296	49%	2,703	47%
Injection Drug Use (IDU)	46	8%	903	16%
MSM/IDU	25	4%	202	3%
Heterosexual Sex	43	7%	676	12%
Other	4	1%	111	2%
Total Undetermined	185	31%	1,191	21%
• Presumed Heterosexual Sex ⁴	123	21%	867	15%
• Undetermined ⁵	62	10%	324	6%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2009	
Under 13	2	<1%	15	<1%
13 to 19	10	2%	40	1%
20 to 24	53	9%	81	1%
25 to 29	84	14%	186	3%
30 to 34	73	12%	322	6%
35 to 39	95	16%	576	10%
40 to 44	111	19%	1,021	18%
45 to 49	78	13%	1,306	23%
50 to 54	44	7%	1,082	19%
55 to 59	29	5%	627	11%
60+	20	3%	530	9%
Total	599	100%	5,786	100%

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

² Ninety-five percent 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, and 4% were born in an unknown dependency

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ 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 5. People living with HIV/AIDS on December 31, 2009 by gender and race/ethnicity: Boston Health Service Region, Massachusetts

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	2,189	49%	195	14%
Black Non-Hispanic	1,327	30%	875	64%
Hispanic	834	19%	269	20%
Other/Undetermined ¹	77	2%	20	1%
Total	4,427	100%	1,359	100%

¹ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified 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 6. People living with HIV/AIDS on December 31, 2009 by gender and exposure mode: Boston Health Service Region, Massachusetts

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	2,703	61%	N/A	N/A
Injection drug use (IDU)	610	14%	293	22%
MSM/IDU	202	5%	N/A	N/A
Heterosexual sex	218	5%	458	34%
Other	57	1%	54	4%
Total Undetermined	637	14%	554	41%
• Presumed heterosexual sex ¹	413	9%	454	33%
• Undetermined ²	224	5%	100	7%
Total	4,427	100%	1,359	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
 N/A=Not Applicable
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/10

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Boston Health Service Region, Massachusetts, before 1999, 1999–2008¹

	Male		Female		Total
	N	%	N	%	
< 1999	5,676	81%	1,291	19%	6,967
1999	273	69%	123	31%	396
2000	298	72%	116	28%	414
2001	241	75%	81	25%	322
2002	268	73%	99	27%	367
2003	237	72%	94	28%	331
2004	224	75%	75	25%	299
2005	220	77%	64	23%	284
2006	191	80%	49	20%	240
2007	144	78%	40	22%	184
2008 ²	143	82%	32	18%	175

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

² 2008 data are preliminary

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. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Boston Health Service Region, Massachusetts, before 1999, 1999–2008¹

	White NH		Black NH		Hispanic		Other/ Undetermined ²		Total
	N	%	N	%	N	%	N	%	
< 1999	3,467	50%	2,498	36%	943	14%	59	1%	6,967
1999	144	36%	165	42%	75	19%	12	3%	396
2000	131	32%	194	47%	74	18%	15	4%	414
2001	119	37%	139	43%	55	17%	9	3%	322
2002	131	36%	159	43%	71	19%	6	2%	367
2003	118	36%	136	41%	73	22%	4	1%	331
2004	107	36%	130	43%	57	19%	5	2%	299
2005	100	35%	105	37%	77	27%	2	1%	284
2006	94	39%	94	39%	48	20%	4	2%	240
2007	69	38%	71	39%	38	21%	6	3%	184
2008 ³	72	41%	67	38%	32	18%	4	2%	175

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

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ 2008 data are preliminary

NH = Non-Hispanic

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. People diagnosed with HIV infection by place of birth and year of diagnosis: Boston Health Service Region, Massachusetts, before 1999, 1999–2008¹

	US		Puerto Rico/ US Dependency ²		Non-US		Total
	N	%	N	%	N	%	
< 1999	5,531	79%	491	7%	945	14%	6,967
1999	281	71%	25	6%	90	23%	396
2000	264	64%	24	6%	126	30%	414
2001	211	66%	14	4%	97	30%	322
2002	229	62%	15	4%	123	34%	367
2003	215	65%	20	6%	96	29%	331
2004	204	68%	9	3%	86	29%	299
2005	177	62%	20	7%	87	31%	284
2006	155	65%	11	5%	74	31%	240
2007	122	66%	10	5%	52	28%	184
2008 ³	117	67%	10	6%	48	27%	175

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

² Ninety-five percent 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, and 4% were born in an unknown dependency

³ 2008 data are preliminary

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. People diagnosed with HIV infection by exposure mode and year of diagnosis: Boston Health Service Region, Massachusetts, before 1999, 1999–2008¹

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ²		Undeter- mined ³		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	3,408	49%	1,777	26%	303	4%	583	8%	183	3%	442	6%	271	4%	6,967
1999	151	38%	77	19%	17	4%	63	16%	8	2%	68	17%	12	3%	396
2000	154	37%	64	15%	9	2%	58	14%	5	1%	95	23%	29	7%	414
2001	133	41%	41	13%	7	2%	48	15%	2	1%	69	21%	22	7%	322
2002	152	41%	42	11%	12	3%	67	18%	1	<1%	75	20%	18	5%	367
2003	141	43%	35	11%	10	3%	43	13%	2	1%	69	21%	31	9%	331
2004	132	44%	31	10%	6	2%	29	10%	2	1%	64	21%	35	12%	299
2005	144	51%	26	9%	7	2%	22	8%	3	1%	52	18%	30	11%	284
2006	126	53%	14	6%	8	3%	18	8%	1	<1%	54	23%	19	8%	240
2007	79	43%	22	12%	8	4%	10	5%	3	2%	34	18%	28	15%	184
2008 ⁴	91	52%	10	6%	9	5%	15	9%	0	0%	35	20%	15	9%	175

¹ Reflects year of HIV infection 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 and those lost to follow-up

⁴ 2008 data are preliminary

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 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Boston Health Service Region, Massachusetts, 1999–2008¹

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
1999	121	396	31%
2000	102	414	25%
2001	78	322	24%
2002	86	367	23%
2003	92	331	28%
2004	74	299	25%
2005	72	284	25%
2006	65	240	27%
2007	44	184	24%
2008 ²	37	175	21%

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

² 2008 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Boston Health Service Region, Massachusetts, 2006–2008¹

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	122	478	26%
Female	24	121	20%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	40	235	17%
Black (non-Hispanic)	63	232	27%
Hispanic	39	118	33%
Other/Undetermined ²	4	14	29%
Place of Birth:	N	N	%
US	77	394	20%
Puerto Rico/US Dependencies ³	7	31	23%
Non-US	62	174	36%
Total	146	599	24%

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

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ Ninety-five percent 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, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/10