

Regional HIV/AIDS Epidemiologic Profile of Worcester County, Massachusetts: 2010

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2009 Worcester County, Massachusetts

	N	%
People Living with HIV/AIDS	1,600	61%
People Reported with HIV or AIDS who are Deceased	1,021	39%
Total Number of People Reported with HIV Infection or AIDS	2,621	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: Worcester County, Massachusetts

Average annual HIV diagnosis rate from 2006–2008	Average rate per 100,000	Average annual number of HIV diagnoses
Worcester County, MA	7.7	58.3
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
Worcester County, MA	212.4	1,600
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, Worcester County, Massachusetts

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
1999	1166	40	93
2000	1228	31	93
2001	1262	38	72
2002	1329	43	110
2003	1390	36	97
2004	1435	41	86
2005	1474	34	73
2006	1528	25	79
2007	1559	24	55
2008	1577	23	41 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: Worcester County, Massachusetts

	HIV Infection Diagnoses		PLWH/A	
	N	%	N	%
Gender:				
Male	106	61%	992	62%
Female	69	39%	608	38%
Place of Birth:				
US	86	49%	984	62%
Puerto Rico/US Dependency ²	25	14%	332	21%
Non-US	64	37%	284	18%
Race/Ethnicity:				
White (non-Hispanic)	67	38%	694	43%
Black (non-Hispanic)	59	34%	354	22%
Hispanic	45	26%	530	33%
Other/Undetermined ³	4	2%	22	1%
Exposure Mode:				
Male-to-male sex (MSM)	51	29%	359	22%
Injection Drug Use (IDU)	27	15%	530	33%
MSM/IDU	2	1%	48	3%
Heterosexual Sex	27	15%	284	18%
Other	0	0%	51	3%
Total Undetermined	68	39%	328	21%
• Presumed Heterosexual Sex ⁴	53	30%	272	17%
• Undetermined ⁵	15	9%	56	4%
Age:				
	At Diagnosis		On December 31, 2009	
Under 13	0	0%	2	<1%
13 to 19	6	3%	19	1%
20 to 24	16	9%	30	2%
25 to 29	19	11%	47	3%
30 to 34	25	14%	81	5%
35 to 39	29	17%	186	12%
40 to 44	23	13%	249	16%
45 to 49	26	15%	388	24%
50 to 54	16	9%	288	18%
55 to 59	9	5%	175	11%
60+	6	3%	135	8%
Total	175	100%	1,600	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: Worcester County, Massachusetts

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	490	49%	204	34%
Black Non-Hispanic	175	18%	179	29%
Hispanic	311	31%	219	36%
Other/Undetermined ¹	16	2%	6	1%
Total	992	100%	608	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: Worcester County, Massachusetts

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	359	36%	N/A	N/A
Injection drug use (IDU)	328	33%	202	33%
MSM/IDU	48	5%	N/A	N/A
Heterosexual sex	74	7%	210	35%
Other	31	3%	20	3%
Total Undetermined	152	16%	176	28%
• Presumed heterosexual sex ¹	117	12%	155	25%
• Undetermined ²	35	4%	21	3%
Total	992	100%	608	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: Worcester County, Massachusetts, before 1999, 1999–2008¹

	Male		Female		Total
	N	%	N	%	
< 1999	1,212	67%	586	33%	1,798
1999	60	65%	33	35%	93
2000	59	63%	34	37%	93
2001	50	69%	22	31%	72
2002	65	59%	45	41%	110
2003	52	54%	45	46%	97
2004	45	52%	41	48%	86
2005	52	71%	21	29%	73
2006	47	59%	32	41%	79
2007	36	65%	19	35%	55
2008 ²	23	56%	18	44%	41

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: Worcester County, Massachusetts, before 1999, 1999–2008¹

	White NH		Black NH		Hispanic		Other/ Undetermined ²		Total
	N	%	N	%	N	%	N	%	
< 1999	931	52%	230	13%	627	35%	10	1%	1,798
1999	39	42%	17	18%	35	38%	2	2%	93
2000	37	40%	24	26%	32	34%	0	0%	93
2001	29	40%	15	21%	25	35%	3	4%	72
2002	38	35%	36	33%	34	31%	2	2%	110
2003	37	38%	33	34%	25	26%	2	2%	97
2004	35	41%	26	30%	25	29%	0	0%	86
2005	30	41%	22	30%	19	26%	2	3%	73
2006	22	28%	29	37%	25	32%	3	4%	79
2007	23	42%	19	35%	12	22%	1	2%	55
2008 ³	22	54%	11	27%	8	20%	0	0%	41

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: Worcester County, Massachusetts, before 1999, 1999–2008¹

	US		Puerto Rico/ US Dependency ²		Non-US		Total
	N	%	N	%	N	%	
< 1999	1,276	71%	434	24%	88	5%	1,798
1999	59	63%	19	20%	15	16%	93
2000	51	55%	24	26%	18	19%	93
2001	35	49%	15	21%	22	31%	72
2002	58	53%	16	15%	36	33%	110
2003	54	56%	15	15%	28	29%	97
2004	45	52%	17	20%	24	28%	86
2005	36	49%	13	18%	24	33%	73
2006	34	43%	15	19%	30	38%	79
2007	28	51%	5	9%	22	40%	55
2008 ³	24	59%	5	12%	12	29%	41

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: Worcester County, 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	373	21%	895	50%	81	5%	246	14%	81	5%	92	5%	30	2%	1,798
1999	12	13%	29	31%	6	6%	25	27%	1	1%	16	17%	4	4%	93
2000	25	27%	18	19%	1	1%	23	25%	3	3%	21	23%	2	2%	93
2001	15	21%	20	28%	1	1%	19	26%	0	0%	14	19%	3	4%	72
2002	19	17%	26	24%	3	3%	15	14%	2	2%	32	29%	13	12%	110
2003	23	24%	18	19%	3	3%	15	15%	3	3%	28	29%	7	7%	97
2004	14	16%	24	28%	1	1%	17	20%	1	1%	25	29%	4	5%	86
2005	23	32%	17	23%	0	0%	8	11%	0	0%	21	29%	4	5%	73
2006	20	25%	11	14%	0	0%	12	15%	0	0%	30	38%	6	8%	79
2007	19	35%	9	16%	2	4%	7	13%	0	0%	15	27%	3	5%	55
2008 ⁴	12	29%	7	17%	0	0%	8	20%	0	0%	8	20%	6	15%	41

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: Worcester County, 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	24	93	26%
2000	22	93	24%
2001	21	72	29%
2002	33	110	30%
2003	27	97	28%
2004	27	86	31%
2005	27	73	37%
2006	25	79	32%
2007	20	55	36%
2008 ²	18	41	44%

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: Worcester County, 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	41	106	39%
Female	22	69	32%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	17	67	25%
Black (non-Hispanic)	27	59	46%
Hispanic	17	45	38%
Other/Undetermined ²	2	4	50%
Place of Birth:	N	N	%
US	25	86	29%
Puerto Rico/US Dependencies ³	9	25	36%
Non-US	29	64	45%
Total	63	175	36%

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