

Manitoba 

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# Manitoba Health Statistical Update on HIV/AIDS

January 1985 – December 2006

**Communicable  
Disease Control Unit  
Public Health**

# MANITOBA HEALTH STATISTICAL UPDATE ON HIV 1985 TO 2006

## HIV – January 1, 1985 to December 31, 2006

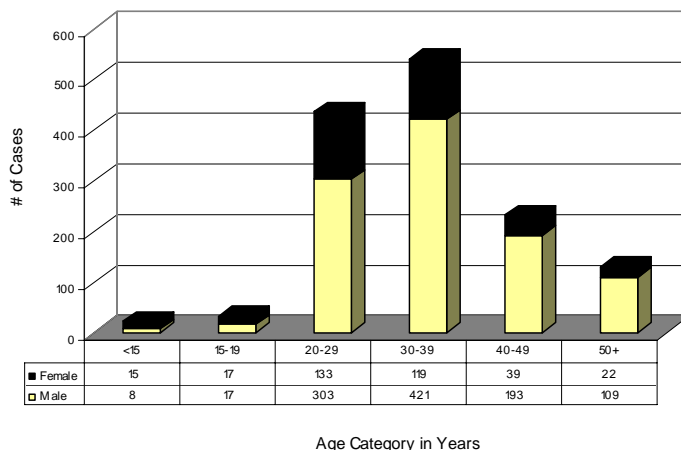
Between January 1, 2006 and December 31, 2006, 83 newly diagnosed cases of HIV were reported in Manitoba; 51 males and 32 females, bringing the total number of cases to 1396 since 1985. While females represent 25% of all HIV cases reported since 1985, comparing the 1985-1995 time period to the 1996-2006 time period, the proportion of newly diagnosed HIV cases that are female has almost quadrupled. Between 1996 and 2006, females accounted for a third of all new HIV cases (301/876), compared to 8% (44/520) between 1985 and 1995. The majority of cases, both male and female, were between the ages of 20 and 39 years.

**Table 1**  
ANNUAL NUMBER OF INDIVIDUALS TESTING HIV ANTIBODY POSITIVE, 1985-2006

Year	Male	Female	Total
1985	3	0	3
1986	70	0	70
1987	50	3	53
1988	37	4	41
1989	57	3	60
1990	40	3	43
1991	33	6	39
1992	39	6	45
1993	55	4	59
1994	50	6	56
1995	42	9	51
1996	37	16	53
1997	59	17	76
1998	53	18	71
1999	51	20	71
2000	38	19	57
2001	39	26	65
2002	41	28	69
2003	69	41	110
2004	63	42	105
2005	74	42	116
2006	51	32	83
<b>Total</b>	<b>1051</b>	<b>345</b>	<b>1396</b>

**Figure 1**

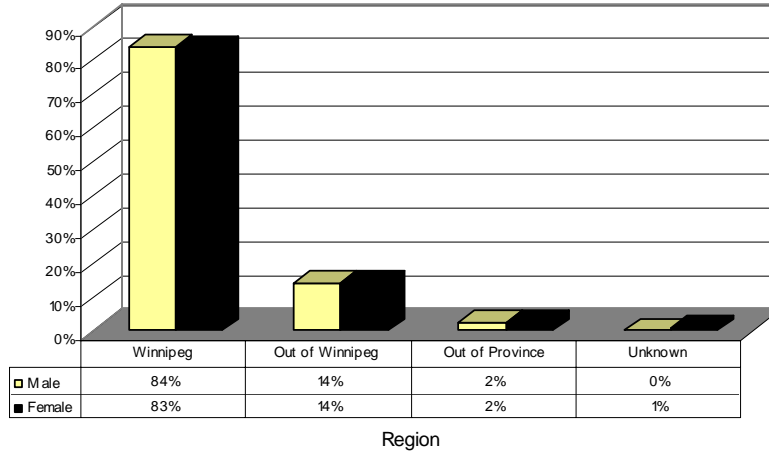
**Total Number of Individuals Testing HIV Antibody Positive by Age and Sex in Manitoba, 1985-2006**



Between 1985 and December 31, 2006, 84% (1168/1396) of all HIV cases at the time of testing reported being residents of Winnipeg, while 14% (195/1396) of cases resided in Manitoba but outside of Winnipeg. Of the total cases, 2% (31/1396) of individuals were from out of province while <1% (2/1396) of individuals reported missing or unknown geographic information.

Figure 2

Proportion of HIV Positive Infections Identified in Manitoba by Region of Residence and Sex, 1985-2006



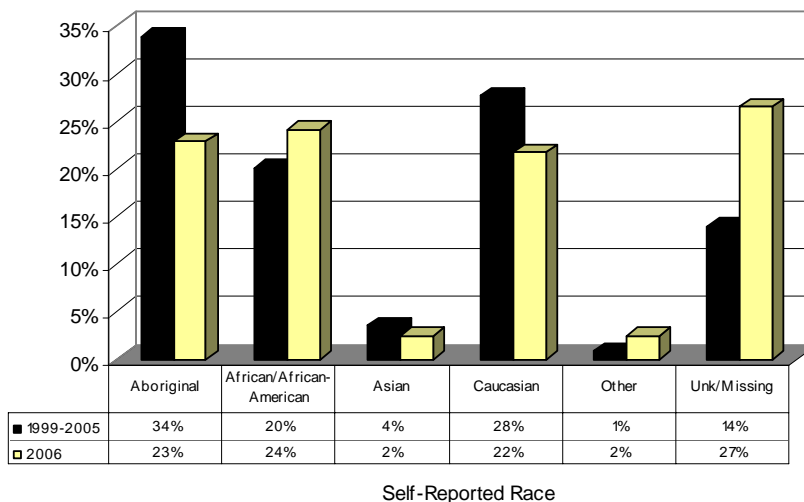
### Self-Reported Ethnicity

In 2006, 24% (20/83 cases) of newly diagnosed cases of HIV in Manitoba were self-reported as African/African-American at the time of follow-up, 23% (19/83 cases) were self-reported as Aboriginal and 22% (18/83) were self-reported as Caucasian. The most commonly reported risk factor among self-reported African/African-Americans was endemic<sup>1</sup> (19/20; 95%). For Aboriginals, the majority of individuals reported heterosexual activity with person(s) at increased risk of HIV (14/19 cases; 74%) and the majority of Caucasians reported MSM<sup>2</sup> (10/18; 56%).

Between January 1999 and December 2006, the majority of new HIV cases self-reported as Aboriginal (220/676 cases; 33%), Caucasian (182/676 cases; 27%) and African/African-Canadian (139/676 cases; 21%). Proportional changes by ethnicity can be seen in the graph below.

Figure 3

Proportion of HIV Positive Cases Identified in Manitoba Race in Manitoba, January 1999 to December 2004 and January to December 2006



<sup>1</sup> Endemic includes persons originating from or residing in countries with a high prevalence of HIV.

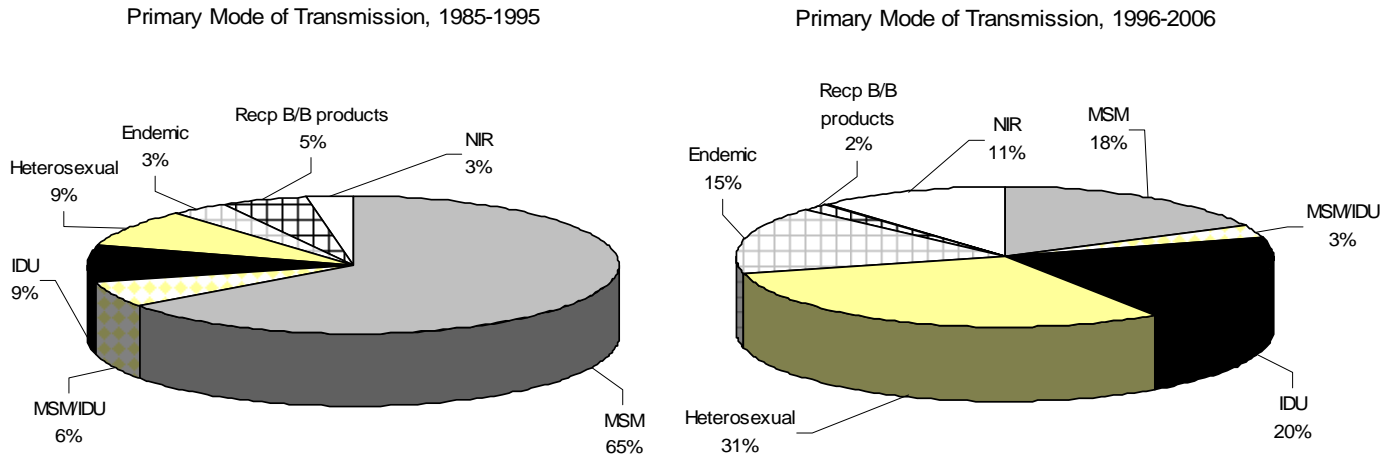
<sup>2</sup> Men who have sex with men.

## HIV Exposure Categories

Of the 32 females testing HIV positive between January 1, 2006 - December 31, 2006, the predominant primary exposure categories were having lived/traveled in an HIV endemic country (13/32 cases; 41%) and sex with men who are at an increased risk of HIV (9/32 cases; 28%). Of the 51 males testing HIV positive in the same time period, the predominant primary exposure categories were having sex with men at an increased risk of HIV that had no evidence of IDU (13/51; 25%). Note that no identified risk was reported for 28% (9/32) of females and 27% (14/51) of males.

The two pie charts below show reported primary modes of transmission among newly identified HIV cases in Manitoba (1985-1995; 1996-2006).

Figure 4



\*Due to the hierarchical assignment of primary mode of transmission, Blood/Blood Product exposures are difficult to verify.

As can be seen, the proportion of MSM without evidence of IDU decreased from 65% (337/520) in the first time period (1985-1995) to 18% (155/876) in the second time period (1996-2005). The largest increases (in terms of raw percentage) between the two time periods were seen in the Heterosexual (+22%), IDU (+12%) and Endemic (+12%) exposure categories. As with ethnicity data, exposure categories are determined by self-report and are subject to the same limitations. Although completion rate for this variable is better than for ethnicity, it is important to note that from January 1985 to December 2006, 8% (114/1396) of positive HIV cases had no identified exposure category.

MSM: men having sex with men

IDU: injection drug use

Heterosexual: includes persons reporting heterosexual activity with person(s) at risk of HIV infection

Endemic: includes persons originating from or having traveled from or resided in an HIV-endemic country

Recp B/B products: recipient of blood/blood products

NIR: no identified risk

## **AIDS – January 1, 1985 to December 31, 2006**

Please note that this report describes AIDS cases based on year of diagnosis of their first AIDS defining illness and not the year that the individual was reported to Manitoba Health as done in previous years.

In 2006, 13 new cases of AIDS were identified; 9 cases were female and 4 cases were male. These case reports bring the total number of AIDS cases to 258 since 1985. The number of reported AIDS cases has declined somewhat over recent years, due in part to early diagnosis and improved treatment of individuals with HIV infection. Seventy-four percent of individuals reported with AIDS have died; however, delays in reporting of both cases and deaths make it difficult to determine the actual incidence and mortality rates.

**Further description of AIDS cases can be found in Appendix D.**

## APPENDIX A

### Reporting of HIV and AIDS in Manitoba

In Manitoba, the expansion of HIV antibody testing occurred in January 1, 2007 with the introduction of nominal and anonymous testing in addition to the existing non-nominal testing option. Expansion of testing options in the province reflects the importance of early detection and demonstrates Manitoba's commitment to reducing the spread of HIV. Information on the three testing methods can be found in the *HIV Antibody Testing Information and Guidelines for Health Practitioners* document located at <http://www.gov.mb.ca/health/publichealth/cdc/surveillance/hivantibodytesting.pdf>.

All confirmatory HIV antibody testing is carried out at Cadham Provincial Laboratory (CPL). Positive test results are subsequently reported to the Director of Communicable Disease Control as required by the *Diseases and Dead Bodies Regulation, Public Health Act*. It has been the practice of the Communicable Disease Control (CDC) Unit to enter case investigation information into the provincial HIV Database after the physician (requesting the test) has verified the test result as a new or existing case. However, there have been delays in the completion of and return of the *Notification of HIV Infection Form* by health care professionals. Consequently, all HIV positive test results are considered new cases unless otherwise advised by the appropriate health care professional. This practice will avoid the underreporting of HIV in Manitoba, although, duplicate cases may be included.

Twice a year, line-listed data from the provincial HIV database are extracted and forwarded to the Centre for Infectious Disease Prevention and Control, Public Health Agency of Canada for inclusion within the national report, *HIV and AIDS in Canada*. Although non-nominal, the prescribed patient code is stripped prior to release. Instead, a sequential case number assigned by the database is used to distinguish one case from another.

Provincially, AIDS cases and deaths are reportable by physicians. The national *HIV/AIDS Case Report Form* is used for this purpose. New AIDS cases and deaths are reported to the Director of Communicable Disease Control and subsequently data are electronically forwarded to the Centre for Infectious Disease Prevention and Control on a quarterly-basis. The Centre works diligently with other provinces to ensure that there are no duplications in the counting of cases.

The variations seen from previous provincial reports with respect to the number of AIDS cases and deaths may be accounted for by delays in reporting as well as the fact that in Manitoba, the database is updated immediately once surveillance staff are notified that a particular case has been accounted for in another province.

# APPENDIX B

CDC Case ID Number \_\_\_\_\_

Case Lab Req Number \_\_\_\_\_

**Prenatal Screen**

## Manitoba Health HIV Case Investigation Form



Specimen Collection Date (YYYY/MM/DD) \_\_\_\_\_

### Nominal Testing

Surname \_\_\_\_\_ Given Name \_\_\_\_\_  
 PHIN (9 digits) \_\_\_\_\_ Sex  M  F  
 MHSC Number (6 digits) \_\_\_\_\_ Birth Date (YYYY/MM/DD) \_\_\_\_\_  
 Street Address \_\_\_\_\_ City/Town \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_  
 Alternate \_\_\_\_\_ Telephone (home/work/cell) \_\_\_\_\_  
 Locating Information \_\_\_\_\_ OR \_\_\_\_\_

### Non-Nominal Testing

Non-Nominal HIV Code \_\_\_\_\_

### Ethnicity

- Caucasian  Aboriginal (specify) \_\_\_\_\_  
 Black (i.e., African, Haitian, Jamaican, etc.)  First Nation on Reserve  
 Asian (i.e., Chinese, Filipino, Japanese, etc.)  First Nation off Reserve  
 South Asian (i.e., East Indian, Pakistani, Sri Lankan, etc.)  Métis  
 Arab/West Asian (i.e., Armenian, Egyptian, Iranian, etc.)  Inuit  
 Latin American  Other (specify) \_\_\_\_\_  
 Refused to answer

### Country of Birth

Canada  Other (specify) \_\_\_\_\_ Year of arrival (YYYY) \_\_\_\_\_

### Risk Factors (check all that apply)

- Sex with:**  men  women  both  vaginal sex  anal sex  oral sex
- sex with multiple partners (number) \_\_\_\_\_  
 sex trade worker  injection drug use (IDU) \_\_\_\_\_  
 sex with sex trade worker  IDU outside Canada (country) \_\_\_\_\_  
 sex with anonymous partner  born to HIV-infected mother  
 sex with bisexual partner  recipient of blood/blood products prior to 1985  
 sex with person(s) who use injection drugs  recipient of blood/blood products outside Canada  
 sex with known/suspected HIV-positive person (country) \_\_\_\_\_  
 sex with person from HIV-endemic country (country) \_\_\_\_\_  
 sex outside Canada (country) \_\_\_\_\_  
 occupational exposure  
 victim of sexual assault  
 other \_\_\_\_\_

Number of sexual contacts in the past year \_\_\_\_\_ Number of IDU contacts in the past year \_\_\_\_\_

Date of last sexual exposure (LSE) (YYYY/MM/DD) \_\_\_\_\_ Date of last IDU exposure (YYYY/MM/DD) \_\_\_\_\_  N/A

Drug use during LSE (check all that apply):  alcohol  IDU  methamphetamine  other \_\_\_\_\_  N/A

In the past year:

- did you use condoms?  always  most of the time  some of the time  never  N/A  
 - did you share injection equipment?  always  most of the time  some of the time  never  N/A

### Disease Reporting and Clinical Standards Information

As per Manitoba Health protocol, individuals with HIV should be tested for associated STI and BBP:

Type	Tests Performed on Case	Treatment Given to Case	Date (YYYY/MM/DD)
GC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	
CT	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	
Syphilis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	
HBV	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> Immune <input type="checkbox"/> Vaccinated	
HCV	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused <input type="checkbox"/> N/A	

### Past History (complete if applicable)

Date of first positive HIV test (YYYY/MM/DD) \_\_\_\_\_ Where tested positive (province/country) \_\_\_\_\_

Date of last negative HIV test (YYYY/MM/DD) \_\_\_\_\_

Previous anti-retroviral therapy  Yes  No

Previous blood/tissue donation  Yes  No If Yes, most recent date (YYYY/MM/DD) \_\_\_\_\_ Hospital name \_\_\_\_\_

Has client been informed of test result?  Yes  No

Has client been referred to HIV specialist or ID physician?  Yes  No

Has client been informed of his/her legal obligation to notify current and future contacts of HIV status?  Yes  No

Contact notification to be completed by:  Public Health  Health Practitioner  Client

Number of contacts to be followed (please complete separate contact notification form for each client) \_\_\_\_\_

Form completed by (print name) \_\_\_\_\_ Telephone Number \_\_\_\_\_

Signature \_\_\_\_\_ Form completion date (YYYY/MM/DD) \_\_\_\_\_

December 2006

## APPENDIX C HIV Descriptive Tables

NUMBER OF INDIVIDUALS TESTING HIV ANTIBODY POSITIVE IN MANITOBA  
BY AGE CATEGORY, SEX AND YEAR OF DIAGNOSIS

Age Category	Sex	2006	2005	1985-2004	1985-2006
<15	M	0	1	7	8
	F	2	2	11	15
15-19	M	0	1	16	17
	F	3	1	13	17
20-29	M	9	15	279	303
	F	5	14	114	133
30-39	M	22	21	378	421
	F	18	15	86	119
40-49	M	11	23	159	193
	F	1	6	32	39
50+	M	9	13	87	109
	F	3	4	15	22
Total	M	51	74	926	1051
	F	32	42	271	345

NUMBER OF INDIVIDUALS TESTING HIV ANTIBODY POSITIVE IN MANITOBA  
BY GEOGRAPHIC RESIDENCE, SEX AND YEAR OF DIAGNOSIS

RHA	Sex	2006	2005	1985-2004	1985-2006
Assiniboine	M	0	2	3	5
	F	0	1	0	1
Brandon	M	1	0	4	5
	F	1	0	1	2
Brandon and Assiniboine	M	0	0	17	17
	F	0	0	1	1
Burntwood	M	1	3	10	14
	F	2	4	3	9
Central	M	3	3	35	41
	F	0	0	15	15
Interlake	M	1	1	30	32
	F	1	1	5	7
Norman	M	0	0	5	5
	F	0	0	1	1
North and South Eastman	M	0	0	11	11
	F	0	0	2	2
North Eastman	M	0	4	6	10
	F	0	3	3	6
Parkland	M	1	0	4	5
	F	1	0	2	3
South Eastman	M	0	0	2	2
	F	0	0	1	1
Winnipeg	M	44	60	777	881
	F	27	32	228	287
Non-Resident	M	0	1	22	23
	F	0	1	7	8
Unknown	F	0	0	2	2
Total	M	51	74	926	1051
	F	32	42	271	345



NUMBER OF INDIVIDUALS TESTING HIV ANTIBODY POSITIVE IN MANITOBA  
BY SELF-REPORTED ETHNICITY AND YEAR OF DIAGNOSIS

<b>Ethnic Category</b>	<b>2006</b>	<b>2005</b>	<b>1985-2004</b>	<b>1985-2006</b>
<b>Aboriginal</b>	19	30	172	<b>221</b>
<b>African/African-American</b>	20	35	85	<b>140</b>
<b>Asian</b>	2	5	16	<b>23</b>
<b>Caucasian</b>	18	34	140	<b>192</b>
<b>Other</b>	2	0	5	<b>7</b>
<b>Unknown/Missing</b>	22	12	779	<b>813</b>
<b>Total</b>	<b>83</b>	<b>116</b>	<b>1197</b>	<b>1396</b>

NUMBER OF INDIVIDUALS TESTING HIV ANTIBODY POSITIVE IN MANITOBA BY PRIMARY MODE OF  
TRANSMISSION, SEX AND YEAR OF DIAGNOSIS

<b>Mode</b>	<b>Sex</b>	<b>2006</b>	<b>2005</b>	<b>1985-2004</b>	<b>1985-2006</b>
<b>MSM</b>	<b>M</b>	15	18	459	<b>492</b>
<b>MSM/IDU</b>	<b>M</b>	0	4	51	<b>55</b>
<b>IDU</b>	<b>M</b>	2	6	126	<b>134</b>
	<b>F</b>	1	5	82	<b>88</b>
<b>Heterosexual</b>	<b>M</b>	13	21	155	<b>189</b>
	<b>F</b>	9	14	103	<b>126</b>
<b>Endemic</b>	<b>M</b>	7	15	49	<b>71</b>
	<b>F</b>	13	19	49	<b>81</b>
<b>Recp B/B products</b>	<b>M</b>	0	0	30	<b>30</b>
	<b>F</b>	0	2	10	<b>12</b>
<b>Perinatal</b>	<b>M</b>	0	0	2	<b>2</b>
	<b>F</b>	0	0	1	<b>1</b>
<b>Occupational</b>	<b>M</b>	0	1	0	<b>1</b>
<b>NIR</b>	<b>M</b>	14	9	54	<b>77</b>
	<b>F</b>	9	2	26	<b>37</b>
<b>Total</b>	<b>M</b>	<b>51</b>	<b>74</b>	<b>926</b>	<b>1051</b>
	<b>F</b>	<b>32</b>	<b>42</b>	<b>271</b>	<b>345</b>

MSM: men having sex with men

IDU: injection drug use

Heterosexual: includes persons reporting heterosexual activity with person(s) at risk of HIV infection

Endemic: includes persons originating from or having traveled from or resided in an HIV-endemic country

Recp B/B products: recipient of blood/blood products

NIR: no identified risk

## APPENDIX D AIDS Descriptive Tables

NUMBER OF REPORTED AIDS CASES AND DEATHS IN  
MANITOBA BY YEAR OF DIAGNOSIS

Year	Cases Reported	Deaths Reported
1985	1	1
1986	13	13
1987	9	9
1988	5	5
1989	16	13
1990	10	10
1991	26	21
1992	15	13
1993	15	13
1994	16	12
1995	15	12
1996	15	9
1997	4	3
1998	10	7
1999	12	9
2000	9	9
2001	9	6
2002	12	5
2003	16	8
2004	9	4
2005	8	3
2006	13	7
<b>Total</b>	<b>258</b>	<b>192</b>

NUMBER OF REPORTED AIDS CASES IN MANITOBA BY AGE CATEGORY,  
SEX AND YEAR OF DIAGNOSIS

Age Category	Sex	2006	2005	1985-2004	1985-2006
<15	M	0	0	2	2
	F	1	0	1	2
15-19	M	0	0	1	1
20-29	M	1	1	32	34
	F	0	0	6	6
30-39	M	3	0	100	103
	F	6	1	11	18
40-49	M	0	3	44	47
	F	1	1	8	10
50+	M	0	2	29	31
	F	1	0	3	4
<b>Total</b>	<b>M</b>	<b>4</b>	<b>6</b>	<b>208</b>	<b>218</b>
	<b>F</b>	<b>9</b>	<b>2</b>	<b>29</b>	<b>40</b>

NUMBER OF REPORTED AIDS CASES IN MANITOBA BY GEOGRAPHIC RESIDENCE,  
SEX AND YEAR OF DIAGNOSIS

RHA	Sex	2006	2005	1985-2004	1985-2006
Assiniboine	M	0	0	3	3
Brandon	M	1	0	4	5
Burntwood and Churchill	M	0	0	1	1
	F	0	1	2	3
Interlake	M	0	0	4	4
Norman	M	0	0	2	2
North Eastman	F	0	0	1	1
Parkland	M	0	0	3	3
	F	0	0	1	1
South Eastman	M	0	0	1	1
Winnipeg	M	3	6	187	196
	F	9	1	25	35
Non Resident	M	0	0	3	3
Total	M	4	6	208	218
	F	9	2	29	40

NUMBER OF REPORTED AIDS CASES IN MANITOBA BY PRIMARY MODE OF TRANSMISSION,  
SEX AND YEAR OF DIAGNOSIS

Mode	Sex	2006	2005	1985-2004	1985-2006
MSM	M	2	3	134	139
MSM/IDU	M	0	0	10	10
IDU	M	1	0	18	19
	F	3	0	8	11
Heterosexual	M	0	3	24	27
	F	3	2	12	17
Endemic	M	0	0	3	3
	F	3	0	6	9
Perinatal	M	0	0	1	1
	F	0	0	1	1
BBP	M	0	0	15	15
	F	0	0	2	2
NIR	M	1	0	3	4
Total	M	4	6	208	218
	F	9	2	29	40

MSM: men having sex with men

IDU: injection drug use

Heterosexual: includes persons reporting heterosexual activity with person(s) at risk of HIV infection

Endemic: includes persons originating from or having traveled from or resided in an HIV-endemic country

Recp B/B products: recipient of blood/blood products

NIR: no identified risk