

# **HIV/AIDS UPDATE**

## **Year End 2004**

British Columbia Centre for Disease Control  
STD/AIDS Control

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## AIDS IN BRITISH COLUMBIA

Historically, collection of BC AIDS data has been a challenge. An AIDS Case Report form is rarely completed and submitted when a healthcare provider changes a client's diagnosis from HIV to AIDS.

Prior to 1997, AIDS case reports were compiled courtesy of the Vancouver Health Department.

To avoid duplicate data entry and to improve timelines, from 1997 – 2000 BCCDC, HIV Surveillance collaborated with the Division of HIV/AIDS Surveillance, Bureau of HIV/AIDS and STD, Laboratory Centre for Disease Control, Health Protection Branch Health Canada .

**From 2000 onward, AIDS case reports have been compiled by BCCDC, HIV Surveillance in collaboration with the Center for Excellence in HIV/AIDS.**

Since HIV became a reportable disease in BC in 2003, all new cases are followed up by Public Health. If an AIDS diagnosis is made at the time of the first positive HIV test, this diagnosis is reported to HIV Surveillance.

Any potential discrepancies between reports from the semi-annual 2000 onward and previous AIDS Update reports may be attributed to the transition from the use of Health Canada's AIDS data to the use of BC AIDS data.

Detailed pre-1997 statistics are not provided in this year end report due to page limitations but are available upon request. Please forward your request to the STD/AIDS Resource Centre either by:

Telephone: 604-660-2090  
Fax: 604-775-0808  
E-mail: [stdinfo@bccdc.ca](mailto:stdinfo@bccdc.ca)

Mail: BC Centre for Disease Control  
STD/AIDS Control  
655 West 12<sup>th</sup> Avenue  
Vancouver, BC, V5Z 4R4

### **Acknowledgements:**

Physicians, healthcare providers, and public health staff in British Columbia for taking the time and effort to complete and submit their AIDS case report forms.

**Dr. Robert Hogg and Ms. Benita Yip from the BC Centre for Excellence in HIV/AIDS for their assistance in improving the reporting of new AIDS cases.**

Table 1.1  
AIDS Case Reports by YEAR OF DIAGNOSIS, 1983 to 2004

Year of Diagnosis	Cases	Rate	Cumulative Cases
1983	7	0.2	7
1984	29	1.0	36
1985	62	2.1	98
1986	106	3.5	204
1987	134	4.4	338
1988	175	5.6	513
1989	223	7.0	736
1990	224	6.8	960
1991	265	7.9	1,225
1992	321	9.3	1,546
1993	358	10.0	1,904
1994	355	9.7	2,259
1995	334	8.8	2,593
1996	268	6.9	2,861
1997	159	4.0	3,020
1998	169	4.2	3,189
1999	158	3.9	3,347
2000	150	3.7	3,497
2001	83	2.0	3,580
2002	102	2.5	3,682
2003	115	2.8	3,797
2004	99	2.4	3,896
TOTAL:	3,896		

RATE is per 100,000 population.

Graph 1.1  
AIDS Case Reports in BC by YEAR OF DIAGNOSIS, 1991 to 2004

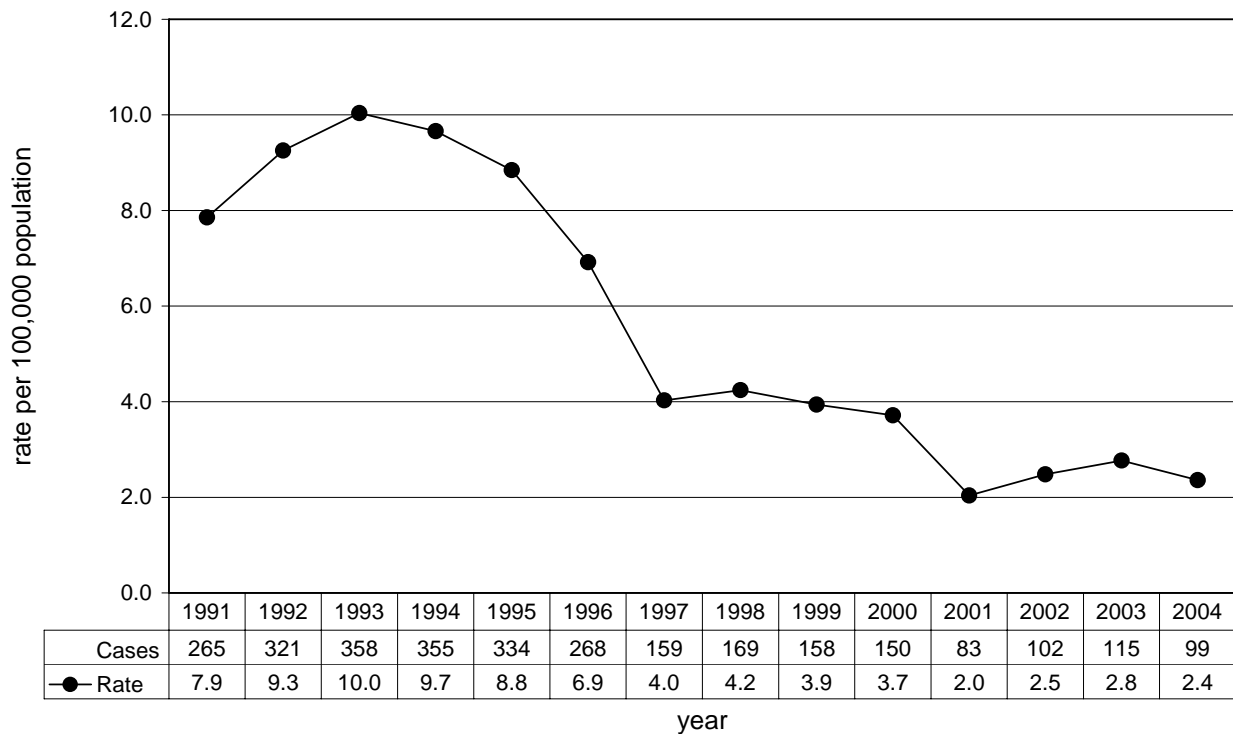


Table 1.2  
AIDS Case Reports by AGE and YEAR OF DIAGNOSIS – **MALES**, 1998 to 2004

Age	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
<15	cases	1	1	1	2	-	-	-	14
	rate	0.26	0.26	0.27	0.54				
15 to 19	cases	-	-	-	-	-	-	-	10
	rate								
20 to 29	cases	15	8	8	5	4	8	5	445
	rate	5.39	2.90	2.94	1.84	1.45	2.86	1.74	
30 to 39	cases	54	57	58	24	33	40	24	1,583
	rate	16.11	17.27	17.83	7.48	10.47	13.01	7.97	
40 to 49	cases	52	42	38	20	28	24	36	1,095
	rate	16.32	12.99	11.59	6.01	8.30	7.00	10.38	
50+	cases	23	23	28	24	26	26	19	461
	rate	4.37	4.23	4.99	4.13	4.33	4.19	2.96	
total:	cases	145	131	133	75	91	98	84	3,608
	rate	7.32	6.57	6.63	3.71	4.46	4.76	4.04	

RATE is per 100,000 population.

TOTAL column to the far right is cumulative from 1983 to 2004 December 31.

Table 1.3  
AIDS Case Reports by AGE and YEAR OF DIAGNOSIS – **FEMALES**, 1998 to 2004

Age	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
<15	cases	-	-	1	-	1	-	-	9
	rate			0.28		0.29			
15 to 19	cases	-	1	-	-	-	1	-	3
	rate		0.77				0.73		
20 to 29	cases	3	3	3	4	2	2	2	60
	rate	1.10	1.11	1.13	1.51	0.74	0.73	0.72	
30 to 39	cases	14	12	2	4	2	3	4	118
	rate	4.21	3.65	0.61	1.24	0.63	0.96	1.31	
40 to 49	cases	6	8	10	-	6	6	8	72
	rate	1.88	2.45	3.01		1.74	1.71	2.25	
50+	cases	1	2	1	-	-	5	1	24
	rate	0.17	0.33	0.16			0.74	0.14	
total:	cases	24	26	17	8	11	17	15	286
	rate	1.20	1.29	0.84	0.39	0.53	0.81	0.71	

RATE is per 100,000 population.

TOTAL column to the far right is cumulative from 1983 to 2004 December 31.

Table 1.4  
AIDS Case Reports by AGE and YEAR OF DIAGNOSIS – **TOTAL**, 1998 to 2004

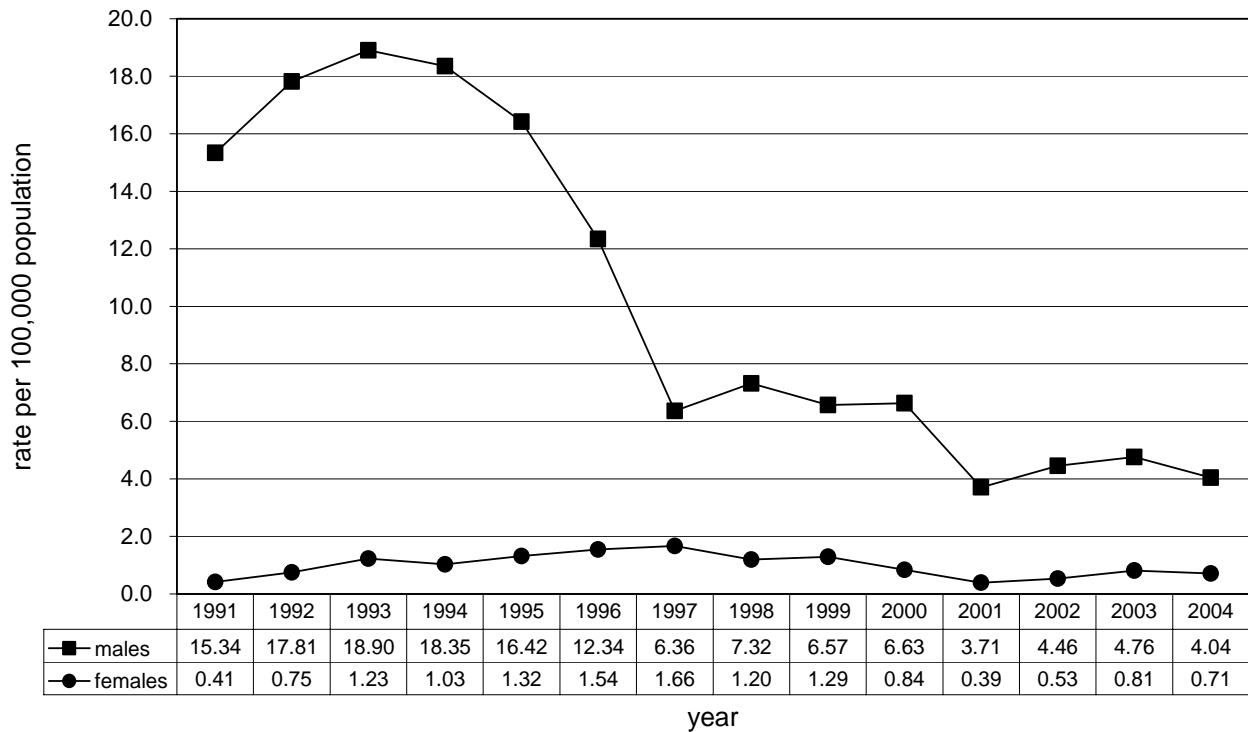
Age	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
<15	cases	1	1	2	2	1	-	-	23
	rate	0.13	0.13	0.27	0.28	0.14			
15 to 19	cases	-	1	-	-	-	1	-	13
	rate		0.37				0.36		
20 to 29	cases	18	11	11	9	6	10	7	505
	rate	3.27	2.02	2.04	1.67	1.10	1.81	1.24	
30 to 39	cases	68	70	60	28	35	43	28	1,703
	rate	10.18	10.62	9.22	4.35	5.52	6.94	4.61	
40 to 49	cases	58	50	48	20	34	30	44	1,167
	rate	9.08	7.70	7.27	2.98	4.98	4.33	6.27	
50+	cases	24	25	29	24	26	31	20	485
	rate	2.16	2.18	2.46	1.97	2.07	2.39	1.49	
total*:	cases	169	158	150	83	102	115	99	3,896
	rate	4.24	3.94	3.71	2.04	2.48	2.77	2.36	

total\* - Includes transgendered persons.

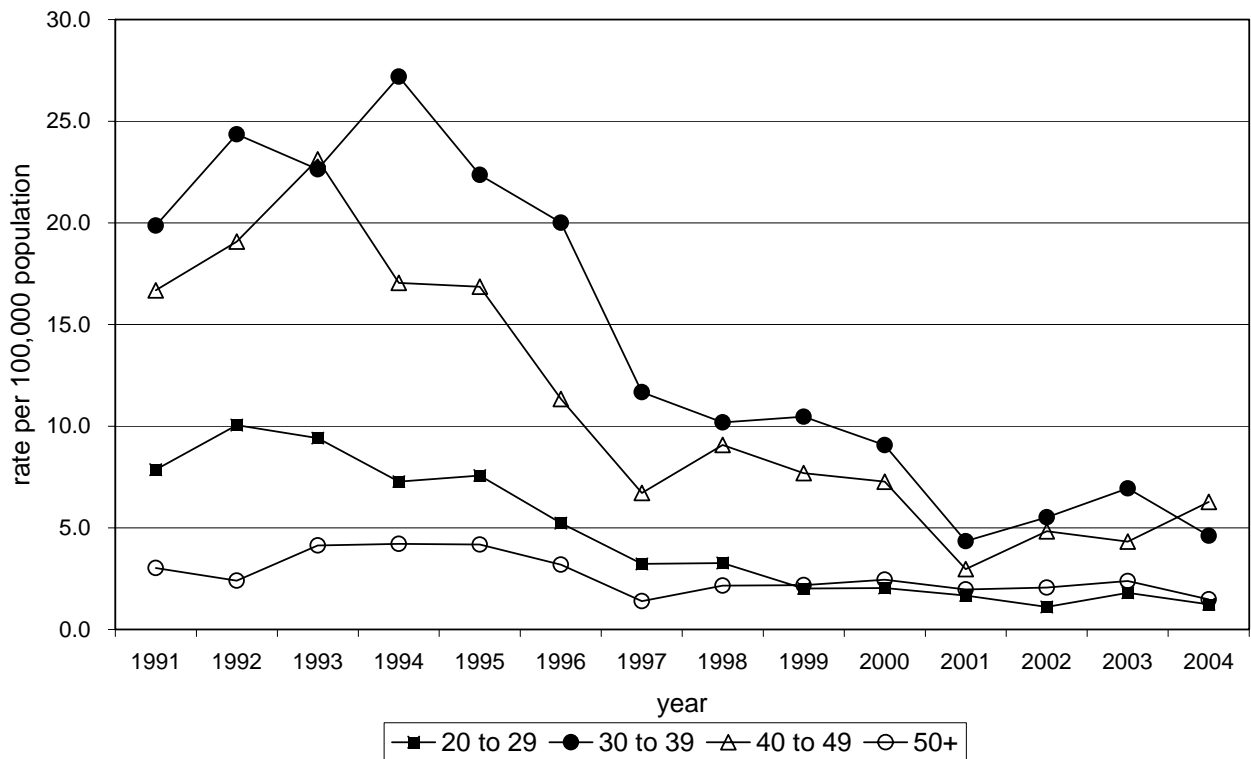
RATE is per 100,000 population.

TOTAL column to the far right is cumulative from 1983 to 2004 December 31.

Graph 1.2  
AIDS Case Reports in BC by GENDER and YEAR OF DIAGNOSIS, 1991 to 2004



Graph 1.3  
AIDS Case Reports in BC by AGE and YEAR OF DIAGNOSIS, 1991 to 2004



Graph 1.4  
AIDS Case Reports in BC by RISK CATEGORY and YEAR OF DIAGNOSIS, 1991 to 2004

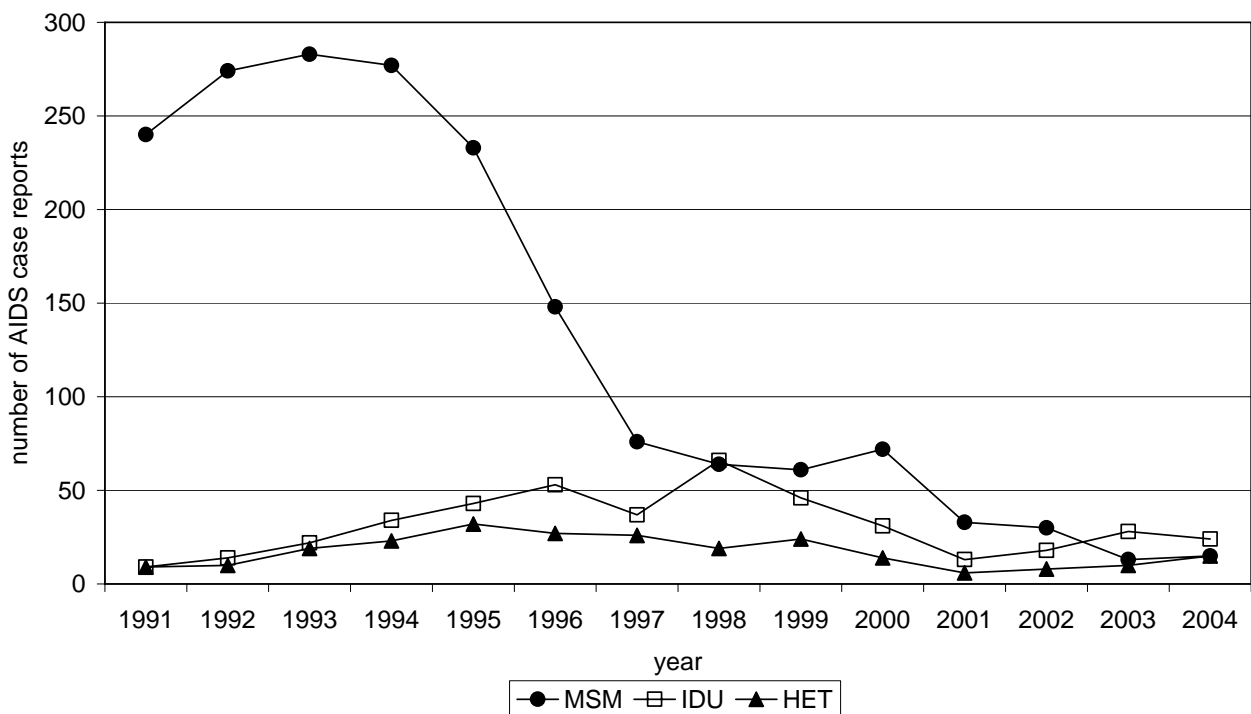


Table 1.5  
AIDS Case Reports by RISK CATEGORY, GENDER and YEAR OF DIAGNOSIS, 1998 to 2004

Risk Category	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
MSM or WSW	males	63	52	68	30	27	11	13	2,543
	females	-	-	-	-	-	-	-	
	total	63	53	68	30	27	11	13	2,544
MSM/IDU or WSW/IDU	males	1	9	5	3	3	2	2	174
	females	-	-	-	-	-	-	-	
	total	1	9	5	3	3	2	2	175
IDU	males	47	34	23	11	15	23	18	325
	females	19	12	8	2	4	5	6	122
	total	66	46	31	13	19	28	24	447
heterosexual contact	males	16	14	10	3	6	5	13	159
	females	3	10	4	3	2	5	2	97
	total	19	24	14	6	8	10	15	256
hemophiliac	males	-	-	-	1	-	-	-	26
	females	-	-	-	-	-	-	-	1
	total	-	-	-	1	-	-	-	27
blood/BP recipient	males	-	-	3	1	1	-	-	23
	females	1	-	-	-	-	1	1	16
	total	1	-	3	1	1	1	1	39
perinatal	males	1	-	1	1	-	-	-	10
	females	-	-	-	-	-	-	-	5
	total	1	-	1	1	-	-	-	15
occupational exposure	males	1	-	-	-	1	-	-	2
	females	-	-	-	-	-	-	-	
	total	1	-	-	-	1	-	-	2
unknown	males	16	22	23	25	38	57	38	346
	females	1	4	5	3	5	6	6	45
	total	17	26	28	28	43	63	44	391
total*:	males	145	131	133	75	91	98	84	3,608
	females	24	26	17	8	11	17	15	286
	total	169	158	150	83	102	115	99	3,896

total\* - Includes transgendered persons.

TOTAL column to the far right is cumulative from 1983 to 2004 December 31.

MSM – men who have sex with men

WSW – women who have sex with women

IDU – injection drug user

HET – heterosexual contact

blood/BP recipient – blood or blood product recipient



Table 1.6  
AIDS Case Reports by ETHNICITY, GENDER and YEAR OF DIAGNOSIS, 1998 to 2004

Ethnicity	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
Caucasian	males	93	86	101	48	43	38	42	2,682
	females	11	9	5	3	2	6	5	139
	total	104	95	106	51	45	44	47	2,822
First Nations	males	19	13	7	5	5	7	6	179
	females	10	9	4	1	2	1	2	59
	total	29	23	11	6	7	8	8	239
Asian	males	3	4	3	-	3	3	5	64
	females	-	1	-	-	-	1	1	7
	total	3	5	3		3	4	6	71
South Asian	males	3	3	1	1	2	2	1	34
	females	-	-	-	-	-	-	-	3
	total	3	3	1	1	2	2	1	37
Inuit	males	1	-	-	1	1	-	-	6
	females	-	-	-	-	-	-	-	1
	total	1			1	1			7
Metis	males	1	-	1	-	-	1	1	10
	females	-	-	-	-	-	-	-	
	total	1		1			1	1	10
Black	males	4	4	2	-	3	3	4	55
	females	-	3	2	1	1	2	-	20
	total	4	7	4	1	4	5	4	75
Hispanic	males	3	2	2	2	5	3	-	49
	females	-	-	-	1	-	-	-	4
	total	3	2	2	3	5	3		53
Arab/West Asian	males	3	-	1	-	1	-	-	11
	females	-	-	-	-	-	-	-	
	total	3		1		1			11
other	males	4	-	-	-	-	2	-	28
	females	-	1	-	-	-	-	1	3
	total	4	1				2	1	31
unknown	males	11	19	15	18	28	39	25	490
	females	3	3	6	2	6	7	6	50
	total	14	22	21	20	34	46	31	540
total*:	males	145	131	133	75	91	98	84	3,608
	females	24	26	17	8	11	17	15	286
	total	169	158	150	83	102	115	99	3,896

total\* - Includes transgendered persons.

TOTAL column to the far right is cumulative from 1983 to 2004 December 31.

Table 1.7  
AIDS Case Reports by HEALTH SERVICE DELIVERY AREA\*  
and YEAR OF DIAGNOSIS, 1998 to 2004

HA	HSDA	AIDS	1998	1999	2000	2001	2002	2003	2004	TOTAL
Fraser	Fraser East	cases	4	-	1	1	3	-	1	54
		rate	1.68		0.41	0.40	1.19		0.38	
	Fraser North	cases	7	13	8	9	11	6	8	213
		rate	1.37	2.50	1.51	1.67	2.02	1.09	1.44	
	Fraser South	cases	7	12	9	4	10	6	4	167
		rate	1.23	2.07	1.53	0.67	1.64	0.97	0.64	
Interior	East Kootenay	cases	-	-	-	2	-	-	-	11
		rate				2.53				
	Kootenay Boundary	cases	1	-	-	-	2	1	-	24
		rate	1.23				2.49	1.24		
	Okanagan	cases	4	8	5	4	4	5	2	84
		rate	1.32	2.62	1.62	1.29	1.27	1.57	0.62	
	Thompson Cariboo Shuswap	cases	5	1	3	2	2	3	2	43
		rate	2.31	0.47	1.39	0.93	0.93	1.39	0.91	
Northern	Northeast	cases	-	-	-	-	-	-	1	9
		rate							1.51	
	Northern Interior	cases	4	2	1	4	1	3	2	38
		rate	2.58	1.31	0.66	2.66	0.67	1.98	1.30	
	Northwest	cases	1	2	1	-	-	1	3	16
		rate	1.13	2.29	1.20			1.20	3.57	
Vancouver Coastal	North Shore/Coast Garibaldi	cases	8	7	11	4	2	3	2	157
		rate	3.05	2.66	4.16	1.50	0.75	1.11	0.74	
	Richmond	cases	1	2	3	4	3	6	2	62
		rate	0.61	1.20	1.78	2.33	1.74	3.48	1.16	
	Vancouver	cases	101	86	84	34	52	55	51	2,513
		rate	18.06	15.22	14.71	5.87	8.92	9.36	8.60	
Vancouver Island	Central Vancouver Island	cases	7	2	5	3	2	3	4	79
		rate	2.94	0.84	2.10	1.25	0.83	1.23	1.62	
	North Vancouver Island	cases	2	1	2	-	1	3	1	24
		rate	1.71	0.86	1.75		0.88	2.60	0.86	
	South Vancouver Island	cases	11	19	10	8	6	10	10	311
		rate	3.28	5.64	2.96	2.35	1.75	2.90	2.89	
Unknown	Unknown	cases	6	3	6	3	3	10	6	43
Non-BC residents	Non-BC residents	cases	-	-	1	1	-	-	-	2
total:		cases	169	158	150	83	102	115	99	3,896
		rate	4.24	3.94	3.71	2.04	2.48	2.77	2.36	

HSDA\* - An AIDS case report, by year of diagnosis, is designated to the appropriate HSDA according to the patient's place of residence at the time of his/her diagnosis of AIDS (i.e. first disease indicative of AIDS). The HSDA is unknown when the patient address, physician address and/or clinic address are all missing from the data.

HA – Health Authority  
HSDA – Health Service Delivery Area

Rate is per 100,000 population.  
TOTAL column to far right is cumulative from 1983 to 2004 December 31.

Table 1.8  
AIDS Case Reports by FIRST DISEASE INDICATIVE OF AIDS  
and YEAR OF DIAGNOSIS, 1983 to 2004

Year of Diagnosis	KS	PCP	OI	OM	HIV WS	HIV ENC	PED	TOTAL
1983	1	3	3	-	-	-	-	7
1984	15	8	6	-	-	-	-	29
1985	15	29	12	6	-	-	-	62
1986	27	52	21	6	-	-	-	106
1987	25	76	22	8	2	1	-	134
1988	33	91	28	10	6	7	-	175
1989	52	117	37	6	6	5	-	223
1990	40	96	53	15	8	12	-	224
1991	45	120	69	7	14	10	-	265
1992	50	133	99	12	16	11	-	321
1993	46	115	133	16	33	14	1	358
1994	52	120	125	15	27	16	-	355
1995	48	105	124	6	29	21	1	334
1996	35	80	107	11	24	11	-	268
1997	16	42	67	11	12	11	-	159
1998	15	63	54	6	29	2	-	169
1999	14	61	55	5	15	8	-	158
2000	17	61	45	10	11	6	-	150
2001	7	27	26	4	14	4	1	83
2002	12	35	35	7	7	6	-	102
2003	6	39	51	4	10	5	-	115
2004	7	47	24	4	14	3	-	99
total:	578	1,520	1,196	169	277	153	3	3,896

KS – Kaposi's sarcoma

PCP – Pneumocystis carinii pneumonia

OI – other opportunistic infections

OM – other malignancies

HIV WS – Wasting syndrome due to HIV

HIV ENC – Encephalopathy, HIV-related

PED – diseases affecting pediatric cases only

## HIV IN BRITISH COLUMBIA

On 1 May 2003, HIV was added to the Health Act as a reportable disease in British Columbia (BC).

In BC, persons testing for HIV have the option to test with or without their name appearing on the test requisition. A person may test using initials and a date of birth.

HIV was added to the list of reportable diseases to involve the public health system in patient follow-up and the counseling of the partners of persons who have tested positive for HIV. Partner notification and counseling is a proven procedure for reaching people at high risk for infection. Beginning 1 May 2003, public health nurses follow-up each new positive HIV case by contacting the health care provider who ordered the test. Public health offers assistance with confidential and, when requested, anonymous counseling of partners. Public health is also available to provide resources and additional support to newly diagnosed HIV positive persons.

### Interpretation of HIV Tables:

In previous *Reports* (pre-1997), the HIV tables represented the number of reactive test reports without the removal of duplicates. With the HIV Surveillance System (HIVSS) in place since January 1995, duplicate HIV test reports are now identified and removed from the data set.

For HIV test reports between 1985 to 1994, duplicates were removed by automated methods only. Since 1995, however, HIV test reports have been carefully examined by BOTH automated and manual methods which thus further improve the detection of duplicates. As of 1 May 2003, public health nurses may further enhance the detection of duplicates when they contact and offer support to persons testing positive for HIV.

HIV data in the following tables now more closely represent the number of persons with a new positive HIV test report.

### Acknowledgements:

HIVSS Team: Daphne Spencer, RN  
Corrine Williams, RN  
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Mel Krajden, MD, FRCP(C)  
Elsie Wong, BScN, MBA

Staff from Virology Services, Laboratory Services, BC Centre for Disease Control, for the collecting and compiling of HIV requisition data.

Designated public health nurses in the various health service delivery areas for making contact with and offering support to persons testing positive for HIV.

Division of HIV/AIDS Surveillance, Bureau of HIV/AIDS and STD, Laboratory Centre for Disease Control, Health Protection Branch, Health Canada, for their financial contribution to the initial phases of this HIVSS project.

Table 2.1  
Persons Testing Newly Positive for HIV by YEAR OF TESTING, 1985 to 2004

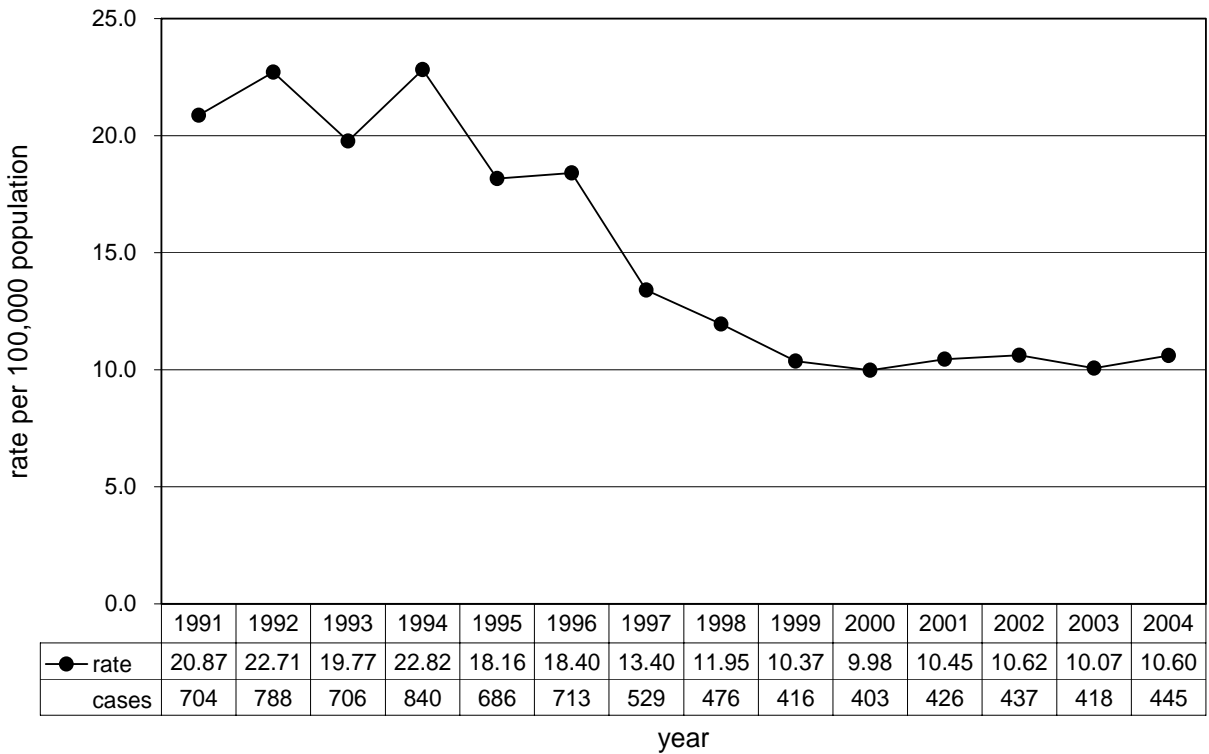
Year	Persons	Rate	Tests
1985	220	7.36	1,362
1986	670	22.30	5,328
1987	929	30.46	35,783
1988	746	23.94	28,866
1989	726	22.70	30,302
1990	645	19.60	38,023
1991	704	20.87	54,282
1992	788	22.71	84,455
1993	706	19.77	92,832
1994	840	22.82	104,476
1995	686	18.16	130,302
1996	713	18.40	138,269
1997	529	13.40	140,279
1998	476	11.95	137,692
1999	416	10.37	135,284
2000	403	9.98	135,488
2001	426	10.45	135,803
2002	437	10.62	146,488
2003	418	10.07	143,338
2004	445	10.60	154,202
TOTAL:	11,923	-	1,872,854

TESTS is the number of HIV tests performed, positive and negative, at the BCCDC Laboratory Services.

RATE is per 100,000 population.

1985 annual total is for the months of October, November and December only.

Graph 2.1  
Persons Testing Newly Positive for HIV in BC by YEAR OF TESTING, 1991 to 2004



Graph 2.2  
Persons Testing Newly Positive for HIV in BC by GENDER and YEAR OF TESTING, 1991 to 2004

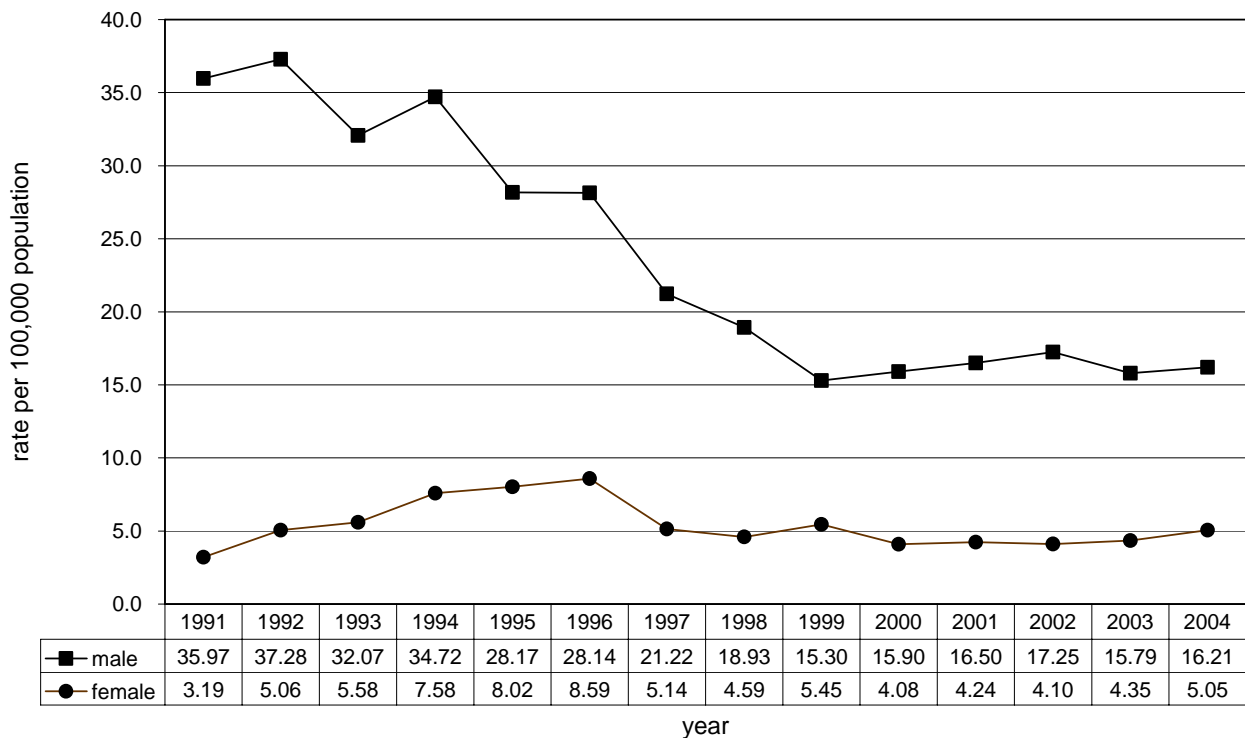


Table 2.2

Persons Testing Newly Positive for HIV by AGE and YEAR OF TESTING – **MALES**, 1998 to 2004

Age	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
<18 mos	persons	2	-	-	1	-	-	-	11
	rate	5.93			3.15				
18 mos to 14 yrs	persons	2	1	1	1	-	1	-	32
	rate	0.57	0.29	0.29	0.29		0.30		
< 15 yrs	tests	547	488	493	466	486	457	433	8,172
15 to 19	persons	3	2	3	3	1	2	2	84
	rate	2.20	1.44	2.11	2.06	0.69	1.39	1.40	
	tests	2,777	2,825	2,677	2,633	2,860	2,695	2,754	36,429
20 to 29	persons	57	54	61	61	48	43	49	2,424
	rate	20.47	19.61	22.38	22.40	17.46	15.36	17.09	
	tests	16,283	15,817	15,339	14,934	16,410	16,010	16,910	229,206
30 to 39	persons	162	133	119	119	130	107	101	4,004
	rate	48.34	40.29	36.58	37.09	41.25	34.79	33.52	
	tests	15,193	14,902	14,914	14,665	15,635	14,357	15,035	217,443
40 to 49	persons	102	71	85	100	110	101	122	2,184
	rate	32.01	21.96	25.93	30.06	32.61	29.47	35.18	
	tests	9,820	9,835	10,016	10,610	11,009	10,722	11,756	135,730
50+	persons	45	43	49	47	62	71	63	919
	rate	8.56	7.91	8.73	8.09	10.33	11.44	9.82	
	tests	6,205	6,575	7,197	7,468	8,473	8,262	9,698	94,368
unknown	persons	2	1	1	2	1	-	-	262
	tests	740	362	414	363	350	293	262	14,602
total:	persons	375	305	319	334	352	325	337	9,920
	rate	18.93	15.30	15.90	16.50	17.25	15.79	16.21	
	tests	51,565	50,804	51,050	51,139	55,223	52,796	56,848	735,950

TESTS is number of HIV tests performed, both positive and negative, at the BCCDC Laboratory Services.

RATE is per 100,000 population.

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

Table 2.3  
Persons Testing Newly Positive for HIV by AGE  
and YEAR OF TESTING – **FEMALES**, 1998 to 2004

Age	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
< 18 mos	persons	-	-	-	-	-	-	-	6
	rate								
18 mos to 14 yrs	persons	-	-	-	1	1	-	4	14
	rate				0.31	0.31		1.29	
< 15 yrs	tests	854	839	728	692	670	649	687	11,079
15 to 19	persons	2	3	4	8	4	2	3	68
	rate	1.56	2.30	3.01	5.91	2.92	1.46	2.21	
	tests	8,210	7,833	7,635	7,162	7,195	6,811	6,824	95,623
20 to 29	persons	33	35	26	35	22	29	29	542
	rate	12.14	12.98	9.76	13.17	8.19	10.66	10.41	
	tests	33,401	32,813	32,164	32,011	34,032	33,467	35,796	421,595
30 to 39	persons	35	36	24	28	38	33	40	626
	rate	10.52	10.95	7.37	8.67	11.93	10.57	13.05	
	tests	26,569	27,005	27,502	27,692	29,669	29,705	31,604	347,413
40 to 49	persons	19	26	25	14	17	19	26	270
	rate	5.94	7.97	7.52	4.13	4.93	5.42	7.32	
	tests	8,812	8,813	9,146	9,128	9,864	9,619	10,426	117,006
50+	persons	3	10	4	1	3	8	5	65
	rate	0.51	1.66	0.65	0.16	0.46	1.18	0.71	
	tests	4,216	4,237	4,589	4,659	5,564	5,361	5,859	60,668
unknown	persons	-	-	-	-	-	-	-	36
	tests	1,093	513	524	505	473	742	1,510	18,594
total:	persons	92	110	83	87	85	91	107	1,627
	rate	4.59	5.45	4.08	4.24	4.10	4.35	5.05	
	tests	83,155	82,053	82,288	81,849	87,467	86,354	92,706	1,071,978

TESTS is number of HIV tests performed, both positive and negative, at the BCCDC Laboratory Services.

RATE is per 100,000 population.

TOTAL column to far right is cumulative from 1985 to 31 December 2004.



Table 2.4  
 Persons Testing Newly Positive for HIV by AGE  
 and YEAR OF TESTING – **GENDER UNKNOWN**, 1998 to 2004

Age	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
< 18 mos	persons	-	-	-	-	-	-	-	1
18 mos to 14 yrs	persons	-	-	-	-	-	-	-	3
< 15 yrs	tests	25	20	32	33	43	49	65	715
15 to 19	persons	-	-	-	-	-	-	-	7
	tests	171	171	155	213	254	292	323	3,662
20 to 29	persons	1	-	-	1	-	-	-	72
	tests	755	574	550	752	914	1,047	1157	17,354
30 to 39	persons	2	-	-	2	-	-	-	113
	tests	638	442	447	610	678	818	877	13,952
40 to 49	persons	2	-	-	-	-	1	-	60
	tests	276	205	246	336	410	543	619	6,741
50+	persons	1	-	-	1	-	-	1	23
	tests	193	162	233	321	517	696	830	6,011
unknown	persons	3	1	-	1	-	1	-	96
	tests	914	853	487	550	982	743	777	16,491
total:	persons	9	1	-	5	-	2	1	375
	tests	2,972	2,427	2,150	2,815	3,798	4,188	4,648	64,926

TESTS is number of HIV tests performed, both positive and negative, at the BCCDC Laboratory Services.  
 RATE is per 100,000 population.  
 TOTAL column to far right is cumulative from 1985 to 31 December 2004.

Graph 2.3  
 Persons testing newly positive for HIV in BC by AGE and YEAR OF TESTING, 1991 to 2004

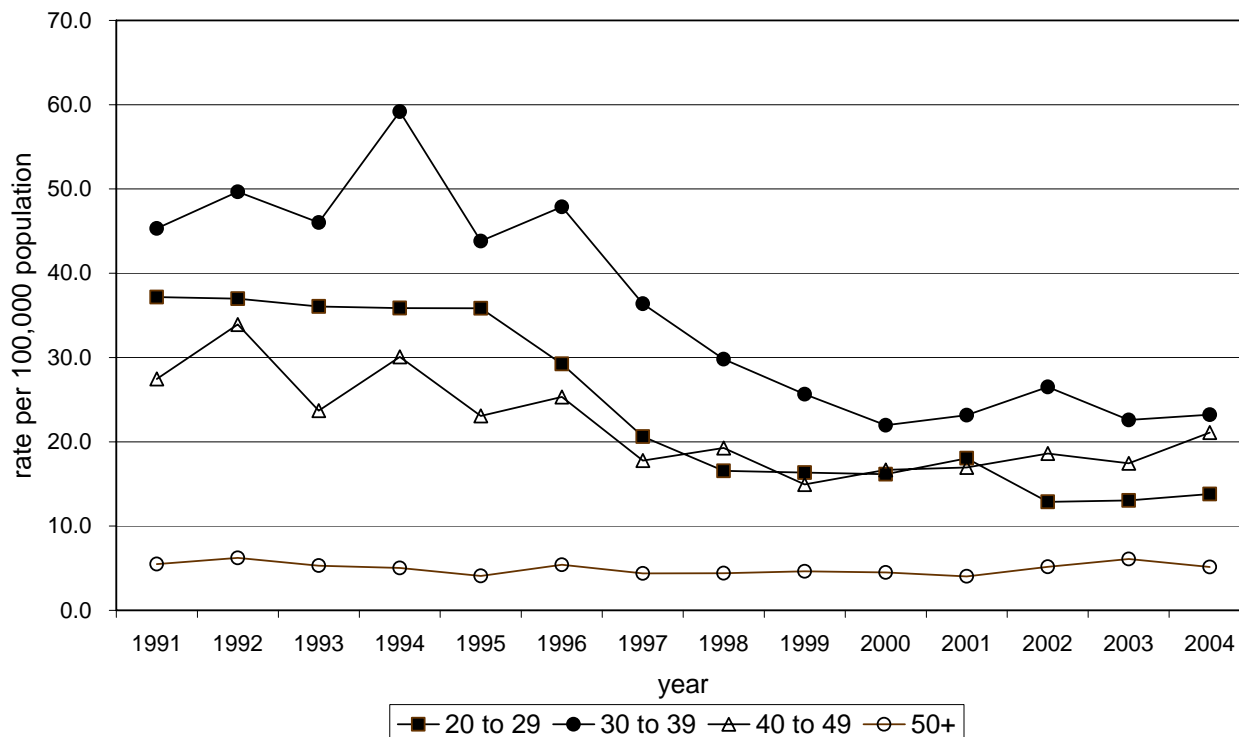


Table 2.5  
Persons Testing Newly Positive for HIV by AGE and YEAR OF TESTING – **TOTAL**, 1998 to 2004

Age	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
<15 yrs	persons	4	1	1	3	1	1	4	67
	rate	0.53	0.13	0.14	0.41	0.14	0.14	0.57	
	tests	1,426	1,347	1,253	1,191	1,199	1,155	1,185	19,966
15 to 19	persons	5	5	7	11	5	4	5	159
	rate	1.89	1.86	2.55	3.91	1.77	1.42	1.79	
	tests	11,158	10,829	10,467	10,008	10,309	9,798	9,901	135,714
20 to 29	persons	91	89	87	97	70	72	78	3,038
	rate	16.54	16.33	16.15	18.03	12.88	13.04	13.80	
	tests	50,439	49,204	48,053	47,697	51,356	50,524	53,863	668,155
30 to 39	persons	199	169	144	149	168	140	141	4,744
	rate	29.81	25.64	22.13	23.14	26.51	22.59	23.20	
	tests	42,400	42,349	42,863	42,967	45,982	44,880	47,516	578,808
40 to 49	persons	123	97	110	114	127	121	148	2,514
	rate	19.26	14.93	16.66	16.97	18.62	17.46	21.09	
	tests	18,908	18,853	19,408	20,074	21,283	20,884	22,801	259,477
50+	persons	49	53	53	49	65	79	69	1,007
	rate	4.41	4.63	4.49	4.02	5.17	6.08	5.14	
	tests	10,614	10,974	12,019	12,448	14,554	14,319	16,387	161,047
unknown	persons	5	2	1	3	1	1	-	394
	tests	2,747	1,728	1,425	1,418	1,805	1,778	2,549	49,687
total*:	persons	476	416	403	426	437	418	445	11,923
	rate	11.95	10.37	9.98	10.45	10.62	10.07	10.60	
	tests	137,692	135,284	135,488	135,803	146,488	143,338	154,202	1,872,854

total\* - Includes transgendered persons.

TESTS is number of HIV tests performed, both positive and negative, at the BCCDC Laboratory Services.

RATE is per 100,000 population.

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

Table 2.6  
Persons Testing Newly Positive for HIV by RISK CATEGORY  
and YEAR OF TESTING – **MALES**, 1998 to 2004

Risk Category	1998	1999	2000	2001	2002	2003	2004	TOTAL
MSM	115	95	132	130	149	146	169	5,176
MSM/IDU	12	10	10	17	12	13	17	263
IDU	124	86	88	90	106	85	82	1,688
heterosexual contact	58	72	39	59	67	63	47	751
sex trade worker (STW)	-	-	-	-	-	-	-	15
STW/IDU	-	1	1	-	-	-	1	24
hemophiliac	-	-	1	-	-	-	-	64
blood/BP recipient (1)	2	2	4	2	5	3	4	77
occupational EXP (2)	1	-	-	1	1	1	-	5
other (3)	-	-	8	4	3	3	2	66
perinatal (4)	4	1	-	1	-	-	-	17
no identified risk	-	-	-	-	-	2	2	4
unknown	59	38	36	30	9	9	13	1,770
total:	375	305	319	334	352	325	337	9,920

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.

MSM – men who have sex with men (includes males who self-identify as bisexual)

IDU – injection drug user

HET – heterosexual contact

blood/BP recipient – blood or blood product recipient

occupational EXP – occupational exposure

(1), (2), (3), and (4) – refer to HIV FOOTNOTES on page 26.

Table 2.7  
Persons Testing Newly Positive for HIV by RISK CATEGORY  
and YEAR OF TESTING – **FEMALES**, 1998 to 2004

Risk Category	1998	1999	2000	2001	2002	2003	2004	TOTAL
WSW	-	1	-	1	-	1	-	16
IDU	36	42	25	27	39	24	17	516
heterosexual contact	37	35	28	43	26	35	41	437
sex trade worker (STW)	1	2	1	-	-	1	3	16
STW/IDU	13	12	18	12	15	23	32	270
hemophiliac	-	-	-	-	-	-	-	1
blood/BP recipient (1)	1	1	1	-	1	4	2	44
occupational EXP (2)	-	-	-	-	-	-	-	-
other (3)	-	3	3	-	1	-	-	21
perinatal (4)	-	-	-	1	1	-	4	15
no identified risk	-	-	-	-	-	-	-	-
unknown	4	14	7	3	2	3	8	291
total:	92	110	83	87	85	91	107	1,627

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.

WSW – women who have sex with women  
 IDU – injection drug user (includes WSW/IDU)  
 HET – heterosexual contact  
 blood/BP recipient – blood or blood product recipient  
 occupational EXP – occupational exposure

(1), (2), (3), and (4) – refer to HIV FOOTNOTES on page 26.

Table 2.8  
Persons Testing Newly Positive for HIV by RISK CATEGORY  
and YEAR OF TESTING – **GENDER UNKNOWN**, 1998 to 2004

Risk Category	1998	1999	2000	2001	2002	2003	2004	TOTAL
MSM or WSW	-	-	-	-	-	-	-	97
MSM/IDU	-	-	-	-	-	-	-	2
IDU	3	1	-	2	-	2	-	37
heterosexual contact	-	-	-	-	-	-	-	15
sex trade worker (STW)	-	-	-	-	-	-	-	1
STW/IDU	-	-	-	-	-	-	-	3
hemophiliac	-	-	-	-	-	-	-	3
blood/BP recipient (1)	-	-	-	-	-	-	-	2
occupational EXP (2)	-	-	-	-	-	-	-	-
other (3)	-	-	-	-	-	-	-	3
perinatal (4)	-	-	-	-	-	-	-	2
no identified risk	-	-	-	-	-	-	-	-
unknown	6	-	-	3	-	-	1	210
total:	9	1	-	5	-	2	1	375

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.

MSM – men who have sex with men (includes males who self-identify as bisexual)

WSW – women who have sex with women

IDU – injection drug user (includes WSW/IDU)

HET – heterosexual contact

blood/BP recipient – blood/blood product recipient

occupational EXP – occupational exposure

(1), (2), (3), and (4) – refer to HIV FOOTNOTES on page 26.

Table 2.9  
Persons Testing Newly Positive for HIV by RISK CATEGORY  
and YEAR OF TESTING – **TOTAL**, 1998 to 2004

Risk Category	1998	1999	2000	2001	2002	2003	2004	TOTAL
MSM or WSW	115	96	133	131	149	147	169	5,290
MSM/IDU	12	10	10	17	12	13	17	267
IDU	163	129	113	119	145	111	99	2,239
heterosexual contact	95	107	67	102	93	98	88	1,203
sex trade worker (STW)	1	2	1	-	-	1	3	32
STW/IDU	13	13	19	12	15	23	33	297
hemophiliac	-	-	1	-	-	-	-	68
blood/BP recipient (1)	3	3	5	2	6	7	6	123
occupational EXP (2)	1	-	-	1	1	1	-	5
other (3)	-	3	11	4	4	3	2	90
perinatal (4)	4	1	-	2	1	-	4	34
no identified risk	-	-	-	-	-	2	2	4
unknown	69	52	43	36	11	12	22	2,271
total*:	476	416	403	426	437	418	445	11,923

total\* - Includes transgendered persons.

TOTAL column to far right is cumulative from 1985 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.

MSM – men who have sex with men (includes males who self-identify as bisexual)

WSW – women who have sex with women

IDU – injection drug user (includes WSW/IDU)

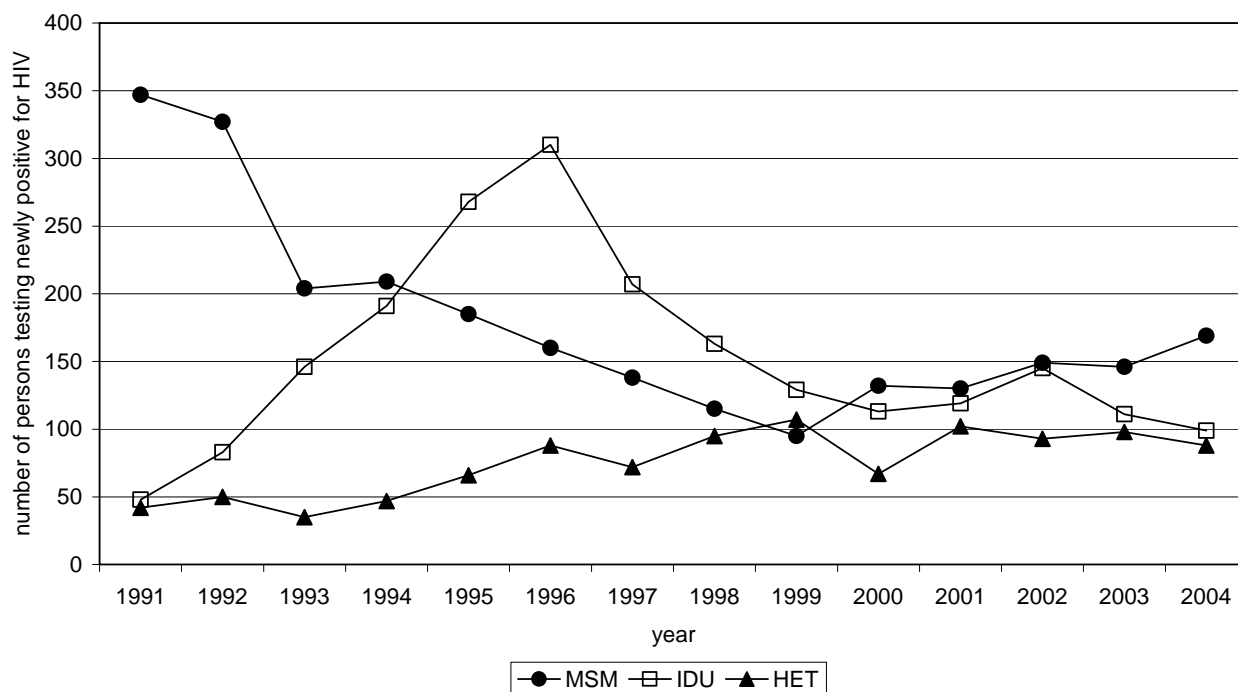
HET – heterosexual contact

blood/BP recipient – blood/blood product recipient

occupational EXP – occupational exposure

(1), (2), (3), and (4) – refer to HIV FOOTNOTES on page 26.

Graph 2.4  
Persons Testing Newly Positive for HIV in BC by RISK CATEGORY and YEAR OF TESTING, 1991 to 2004



**Prenatal Screening:**

Since pregnancy is not an HIV risk category, a separate table (Table 2.10) has been prepared to monitor the number of pregnant women whose HIV test requisition stated that the test was being done as a prenatal assessment and of these women, the number who have tested positive for HIV. This does not include pregnant women tested for HIV whose requisition indicated a different risk or reason for testing. Please note that the pregnant women who have tested positive for HIV are included in the appropriate *Risk Category* table in accordance with their identified risk (e.g. heterosexual contact). Males who test for HIV under the Prenatal Screening reason for testing, and who are partners of pregnant women who test for HIV, are also included in this table.

Table 2.10  
Persons Testing Newly Positive for HIV – PRENATAL SCREENING, 1998 to 2004

Gender	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
male	persons	-	-	-	2	1	2	4	11
	tests	450	610	731	164	146	212	97	3,352
female	persons	-	-	4	20	10	8	10	82
	tests	23,616	23,645	23,437	23,657	24,580	27,578	38,653	245,224
unknown	persons	-	-	-	-	-	-	-	-
	tests	467	361	326	432	472	521	535	5,984
total:	persons	-	-	4	22	11	10	14	93
	tests	24,533	24,616	24,494	24,253	25,198	28,311	39,285	254,560

TESTS is the number of HIV tests performed as part of prenatal screening, both positive and negative, at the BCCDC Laboratory Services.  
TOTAL column to far right is cumulative from 1994 to 31 December 2004.

Table 2.11  
Persons Testing Newly Positive for HIV by ETHNICITY  
and YEAR OF TESTING – **MALES**, 1998 to 2004

Ethnicity	1998	1999	2000	2001	2002	2003	2004	TOTAL
Caucasian	227	200	211	234	234	214	234	2,457
First Nations	34	30	35	33	35	32	30	401
Asian	11	12	18	12	16	12	12	138
South Asian	14	6	4	13	21	14	8	107
Inuit	-	1	1	-	1	1	-	4
Metis	4	3	-	3	3	4	4	26
Black	15	11	10	10	12	15	9	111
Hispanic	13	11	8	9	22	12	11	130
Arab/West Asian	2	2	-	2	2	-	2	11
Other/Mixed Race	-	-	2	-	1	2	3	8
Unknown	55	29	30	18	5	19	24	444
total:	375	305	319	334	352	325	337	3,837

Table 2.12  
Persons Testing Newly Positive for HIV by ETHNICITY  
and YEAR OF TESTING – **FEMALES**, 1998 to 2004

Ethnicity	1998	1999	2000	2001	2002	2003	2004	TOTAL
Caucasian	44	47	40	40	42	43	51	507
First Nations	28	40	21	31	26	24	28	315
Asian	2	1	2	-	4	2	2	16
South Asian	5	1	1	1	2	2	3	22
Inuit	-	-	1	-	-	-	-	1
Metis	-	2	-	-	1	3	3	14
Black	6	8	8	13	5	9	10	75
Hispanic	1	1	-	1	2	2	-	12
Arab/West Asian	-	1	-	-	1	-	-	2
Other/Mixed Race	-	-	1	-	-	-	2	3
Unknown	6	9	9	1	2	6	8	109
total:	92	110	83	87	85	91	107	1,076

TOTAL column on far right is cumulative from 1995 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.



Table 2.13  
Persons Testing Newly Positive for HIV by ETHNICITY  
and YEAR OF TESTING – **GENDER UNKNOWN**, 1998 to 2004

Ethnicity	1998	1999	2000	2001	2002	2003	2004	TOTAL
Caucasian	3	-	-	3	-	1	-	13
First Nations	2	1	-	-	-	-	-	5
Asian	-	-	-	-	-	-	-	-
South Asian	-	-	-	-	-	-	-	1
Inuit	-	-	-	-	-	-	-	-
Metis	-	-	-	-	-	-	-	-
Black	1	-	-	-	-	-	-	1
Hispanic	-	-	-	-	-	-	-	1
Arab/West Asian	-	-	-	-	-	-	-	-
Other/Mixed Race	-	-	-	-	-	-	-	-
Unknown	3	-	-	2	-	1	1	14
total:	9	1	-	5	-	2	1	35

Table 2.14  
Persons Testing Newly Positive for HIV by ETHNICITY  
and YEAR OF TESTING – **TOTAL**, 1998 to 2004

Ethnicity	1998	1999	2000	2001	2002	2003	2004	TOTAL
Caucasian	274	247	252	277	276	258	285	2,978
First Nations	64	71	56	64	61	56	58	721
Asian	13	13	20	12	20	14	14	154
South Asian	19	7	5	14	23	16	11	130
Inuit	-	1	2	-	1	1	-	5
Metis	4	5	-	3	4	7	7	40
Black	22	19	18	23	17	24	19	187
Hispanic	14	12	8	10	24	14	11	143
Arab/West Asian	2	3	-	2	3	-	2	13
other	-	-	3	-	1	2	5	11
unknown	64	38	39	21	7	26	33	567
total*:	476	416	403	426	437	418	445	4,949

total\* - Includes transgendered persons.

TOTAL column on far right is cumulative from 1995 to 31 December 2004.

For 2004, not all risk and ethnicity data was available at the time of this publication and thus these HIV cases were noted as "unknown" in the appropriate tables. As this risk and ethnicity data becomes available it will be published in future reports.

Since 2002, risk and ethnicity data are no longer captured on the HIV requisition form. For this reason, the number of HIV tests performed is no longer published in the HIV tables associated with risk and ethnicity.

Table 2.15  
Persons Testing Newly Positive for HIV by HEALTH SERVICE DELIVERY AREA\*  
and YEAR OF TESTING, 1998 to 2004

HA	HSDA	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
Fraser	Fraser East	persons	18	12	22	14	12	8	19	153
		rate	7.6	5.0	9.0	5.6	4.8	3.2	7.3	
	Fraser North	persons	41	43	52	41	53	47	56	496
		rate	8.0	8.3	9.8	7.6	9.7	8.6	10.1	
	Fraser South	persons	40	30	21	33	40	38	33	376
		rate	7.0	5.2	3.6	5.5	6.6	6.1	5.3	
Interior	East Kootenay	persons	1	3	1	-	1	1	1	16
		rate	1.3	3.8	1.3		1.3	1.2	1.2	
	Kootenay Boundary	persons	1	1	1	5	-	2	-	25
		rate	1.2	1.2	1.2	6.2		2.5		
	Okanagan	persons	13	6	17	11	7	16	16	126
		rate	4.3	2.0	5.5	3.5	2.2	5.0	4.9	
	Thompson Cariboo Shuswap	persons	11	9	8	13	6	12	5	112
		rate	5.1	4.2	3.7	6.1	2.8	5.5	2.3	
Northern	Northeast	persons	2	-	4	-	1	1	4	12
		rate	3.1		6.3		1.6	1.5	6.0	
	Northern Interior	persons	4	7	2	8	10	15	13	75
		rate	2.6	4.6	1.3	5.3	6.7	9.9	8.5	
	Northwest	persons	3	2	1	1	-	3	7	24
		rate	3.4	2.3	1.2	1.2		3.6	8.3	
Vancouver Coastal	North Shore/Coast Garibaldi	persons	15	12	14	12	9	12	12	157
		rate	5.7	4.6	5.3	4.5	3.4	4.5	4.4	
	Richmond	persons	4	12	2	5	12	6	6	63
		rate	2.5	7.2	1.2	2.9	7.0	3.5	3.5	
	Vancouver	persons	263	226	216	232	232	207	200	2,694
		rate	47.0	40.0	37.8	40.1	39.8	35.2	33.7	
Vancouver Island	Central Vancouver Island	persons	10	17	12	10	11	10	19	135
		rate	4.2	7.1	5.0	4.2	4.6	4.1	7.7	
	North Vancouver Island	persons	3	2	2	4	6	4	6	45
		rate	2.6	1.7	1.7	3.5	5.3	3.5	5.1	
	South Vancouver Island	persons	43	33	26	36	37	36	45	353
		rate	12.8	9.8	7.7	10.6	10.8	10.5	13.0	
unknown	unknown	persons	4	1	1	-	-	-	-	82
non-BC	non-BC	persons	-	-	1	1	-	-	3	5
Total	Total	persons	476	416	403	426	437	418	445	4,949
		rate	11.95	10.37	9.98	10.45	10.62	10.07	10.60	

HEALTH SERVICE DELIVERY AREA\*- A person testing newly positive for HIV is designated to the appropriate HSDA according to the person's city of residence. If the person's city of residence is not available then the person is designated to the city of the clinic or physician where the person was tested.

HA – Health Authority

HSDA – Health Service Delivery Area

RATE is per 100,000 population.

TOTAL column to far right is cumulative from 1995 to 31 December 2004.

Table 2.16  
Persons Testing Newly Positive for HIV by SPECIMEN SOURCE  
and YEAR OF TESTING, 1998 to 2004

Specimen Source	HIV	1998	1999	2000	2001	2002	2003	2004	TOTAL
Private Physician	persons	258	230	218	262	268	243	241	5,471
	tests	100,114	98,344	99,347	103,471	110,195	101,430	88,944	1,326,304
Hospital	persons	110	96	108	95	110	109	120	2,149
	tests	21,476	21,960	20,775	19,323	19,799	25,995	47,387	281,867
West 12th STD Clinic (5)	persons	12	19	8	18	9	12	18	365
	tests	3,052	3,012	3,529	2,060	4,105	3,541	3,143	46,690
Street Nurse Program (6)	persons	38	33	41	30	26	21	30	842
	tests	2,373	2,289	2,191	1,697	1,899	2,094	2,531	35,219
Health Unit	persons	10	4	5	5	6	5	8	170
	tests	5,583	4,772	4,675	4,473	4,444	4,179	4,158	62,089
Canadian Blood Services	persons	-	-	-	-	-	1	-	8
	tests	3	3	-	1	8	3	1	109
Study/Research (7)	persons	20	15	12	6	3	11	16	182
	tests	153	142	116	104	630	810	2,910	5,369
Vancouver Coastal Clinics (8)	persons	-	-	-	-	-	-	-	-
	tests	2,877	2,593	2,695	2,518	3,494	3,599	3,498	26,430
Treatment/Prevention Programs (9)	persons	2	4	2	3	11	6	7	38
	tests	401	563	579	721	706	565	567	4,507
corrections (10)	persons	21	9	8	7	3	10	5	112
	tests	1,453	1,318	1,121	970	955	757	674	9,552
Other	persons	1	1	-	-	-	-	-	6
	tests	207	288	460	465	253	365	389	2,651
unknown	persons	4	5	1	-	1	-	-	15
	tests	-	-	-	-	-	-	-	166
total:	persons	476	416	403	426	437	418	445	9,358
	tests	137,692	135,284	135,488	135,803	146,488	143,338	154,202	1,800,953

TESTS is number of HIV tests performed, both positive and negative, at the BCCDC Laboratory Services.  
TOTAL column to far right is cumulative from 1989 to 31 December 2004.

(5), (6), (7), (8), (9) and (10) – refer to HIV FOOTNOTES on page 26.

## HIV FOOTNOTES

No.	Risk Category	Footnote
(1)	blood/BP recipient	Follow-up is <u>not</u> done for each person testing newly positive for HIV in this risk category. Persons in this risk category are self-identified and are referred to Canadian Blood Services.
(2)	occupational EXP	Follow-up <u>is</u> done on each positive HIV test in this risk category to determine if the person's positive test is the result of a <u>true</u> occupational exposure.
(3)	other	Includes the following: endemic area immigrants; needle puncture; blood contact from bite, fight, etc.; semen recipients; organ donors; non-injection drug use; and unspecified parenteral exposure.
(4)	perinatal	Since HIV antibody testing is not diagnostic prior to 18 months of age, HIV infections documented in this age group were confirmed by Oak Tree Clinic through direct identification of HIV by PCR, p24 antigen testing and/or HIV culture on two or more consecutive assays. This category also includes children infected through perinatal transmission who have not been previously identified prior to the age of 18 months by a direct detection method for HIV.

No.	Specimen Source	Footnote
(5)	West 12 <sup>th</sup> STD Clinic	Located at 655 West 12 <sup>th</sup> Avenue in Vancouver BC.
(6)	Street Nurse Program	HIV testing is done by the outreach nurses at various sites in the Lower Mainland, including: outreach clinics, city jails, and detoxification centres.
(7)	Study/Research	To address the outbreak of HIV among IDUs, the BC Centre for Excellence in HIV/AIDS and the BC Centre for Disease Control have initiated several open cohort studies (VIDUS, CEDAR, ESIS) to investigate the determinants of HIV transmission and the progression of HIV in this client population.
(8)	Vancouver Coastal Clinics	HIV testing is conducted by various community health clinics in Vancouver and Richmond.
(9)	Treatment/Prevention Programs	HIV testing is generally a requirement for admission to detoxification centres and drug/alcohol treatment centres.
(10)	Corrections	Many inmates choose to get an HIV antibody test done at the time of intake or discharge or when they perceive that they have been at risk of acquiring HIV.