

Special report:

**Francophone and language group comparison in the
Lambda survey, Ontario 2007**

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1. Introduction

M-Track is an ongoing second generation surveillance system conducted at sentinel sites across Canada. It is the most recent in a series of studies, including the National Men's Survey (1991), the Winnipeg Men's Survey (1995) and the Ontario Men's Survey (2002), targeting men who have sex with men (MSM). The Ontario component of M-Track (*Lambda*) was conducted in Toronto and Ottawa in 2007.

The *Lambda* study was a venue-based, cross-sectional survey consisting of a self-administered and the collection of biologic samples (dried blood spot) to measure HIV, HCV and syphilis prevalence. *Lambda* used tests designed to detect recent infection to assess HIV incidence among MSM. *Lambda* sought to collect information about risk behaviours associated with HIV/STI infection and general issues relevant to sexual health and sexual behaviour among MSM. Community members and service providers were integral throughout the study from development and implementation to interpretation and translation of knowledge into action.

This report presents a supplement analysis of first language spoken and focuses on francophone participants in the *Lambda* survey.

2. Methods

Participants were asked to complete a self-administered questionnaire in either English or French and provide a dried blood spot (DBS). Overall, 2,438 participants took part in the *Lambda* survey and 1,104 (45.3%) of these participants provided a DBS. The Ottawa site recruited 506 participants, of whom 304 (60.1%) provided a DBS. 1,932 participants were recruited from the Toronto site and 41.4% of these participants provided a DBS. The detailed description of the methodology used in the *Lambda* Survey 2007 is included in the "Technical Report - *Lambda* survey: M-Track Ontario second generation surveillance".

In the *Lambda* Survey, participants were asked "What is the language you first learned and still understand?" The options included French, English and other and participants could have multiple choices. In this report, participants were classified into "Multiple languages" if they reported more than one language first spoken.

Since there were no direct variables that describe delayed condom application during receptive anal sex with HIV-positive partner or delayed condom application during receptive anal sex with HIV unknown status partner and unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner, we developed algorithms to define two new variables, which were derived from seven and eleven other variables asked in the original questionnaire, respectively. (Please see the Appendix for the algorithms used.)

3. Results

Table 1 indicates the language first spoken by *Lambda* participants. English was the first language spoken by most participants. Overall, 12.5% of *Lambda* participants reported French as their first

language spoken, 8.6% of Toronto participants and 26.9% of Ottawa participants. Among all 2,438 participants, 271 (11.1%) did not report their information on first language.

Table 2 shows the proportion of participants recruited from each venue type by first language spoken and site. A greater proportion of participants from Toronto were recruited from bars and bathhouses than were recruited from these venue types in Ottawa (46.0% vs. 37.7%, $p=0.001$; 10.8% vs. 3.6%, $p<0.0001$, respectively). A greater proportion of Ottawa participants were recruited from associations (30.3%) than were recruited from associations in Toronto (30.3% vs. 14.0%, $p<0.0001$), with a significant difference among francophone MSM ($p=0.052$), English speakers ($p<0.0001$) and those who first spoke more than one language ($p<0.01$). In Toronto, those who first spoke a language other than English or French were more likely to be recruited from associations and bathhouses compared to other language groups (33.3% vs. 24-25%). In Ottawa, fewer francophone MSM were recruited from bathhouses compared to those who first spoke another language (0.9% vs. 9.4%, $p=0.04$).

Table 3 indicates the age distribution of 2,167 Lambda participants by first language spoken and site. Among francophone MSM, there was no significant difference in age between those in Toronto and those in Ottawa. There was no significant difference in age among the three language groups for Ottawa participants. However, for Toronto participants, French and English speakers were on average 3.7-4.0 years older than those who first spoke a language other than English or French or those who first spoke more than one language (all $p < 0.05$); there was no difference in age between French and English speakers.

The distribution of educational level attained by Lambda participants by first language spoken is shown in Table 4. 66-68% of francophone MSM completed college or university. There was no significant difference in the level of education completed among the four language groups and among French speakers between Toronto and Ottawa.

Table 5 shows the income distribution of Lambda participants by first language spoken. There were no differences in income between Toronto and Ottawa for each language group. In Toronto, 50.0% of francophone MSM earned less than \$50,000 in the previous year, while 65.4% of those who first spoke a language other than French or English and 77.3% of those who first spoke more than one language earned less than \$50,000 in the previous year. The differences were significant ($p=0.004$ and $p=0.0003$, respectively). No difference in income among language groups in Ottawa was observed.

Table 6 indicates ethnicity by Lambda participants by first language spoken. There was no significant difference in the ethnicity distribution among French speakers in Toronto compared to those in Ottawa. However, Toronto had more English or multiple languages first spoken by MSM than Ottawa ($p<0.0001$). Not surprisingly, men who first spoke other languages or more than one language were more likely to report being of other descent than Europe/North American compared to French speakers or English speakers. The differences were statistically significant among Toronto participants (all $p<0.0001$).

Table 7 presents the proportion of providing a DBS specimen and HIV prevalence among participants who provided DBS by first language spoken. (We do not report HIV prevalence for some cells due to denominators of five or less since the proportion is not a valid reflection of true prevalence.) Overall, more participants in Ottawa than in Toronto provided a DBS for HIV testing

(60.1% vs. 40.9%, $p < 0.0001$). HIV prevalence was significantly higher among Toronto participants than among Ottawa participants, regardless of language. HIV prevalence was 26.3% among francophone MSM in Toronto and 3.9% among francophone MSM in Ottawa. Among Toronto participants, no difference in the proportion of participants who provided a DBS specimen and HIV prevalence among language groups was found. HIV prevalence among francophone MSM was considerably lower than among English speakers in Ottawa (3.9% vs. 12.9%, $p = 0.055$).

Table 8 shows HIV prevalence by recruitment venue type and language group. HIV prevalence varied by recruitment venue and language. In Toronto, overall HIV prevalence among those recruited from associations was significantly higher than among those from other venues (42.4% (42.1??) (95%CI 32.7%-52.2%) vs. 18.4% (95%CI 14.5%-22.3%, $p < 0.0001$), with similar differences observed among English speakers and those who first spoke a language other than English and French. In Ottawa, HIV prevalence among those recruited from bars and associations was higher than among those from other venues (16.3% (95%CI 10.9-21.7%) vs. 6.5% (95%CI 1.9%-11.2%), $p = 0.023$), with a similar difference among English speakers.

HIV prevalence was generally higher among participants recruited from associations, which may have biased to the overall prevalence among Lambda participants. Therefore, we carried out two additional analyses to explore this issue.

Table 8a shows the recruitment venue-standardized HIV prevalence for each language group by study site using the proportion of recruitment venue in both sites as the standard. After adjustment for recruitment venue, overall HIV prevalence (24.6%) was slightly higher than the crude prevalence (23.8%) in Toronto; this was similar among English speakers, those who first spoke more than one language and those with unknown language information. HIV prevalence among francophone men and those who first spoke another language was slightly higher (23.8% vs. 26.3%, 24.9% vs. 25.3%, respectively). In Ottawa, overall HIV prevalence was slightly lower (10.3% vs. 11.8%) but essentially the same among English speakers (12.0% vs. 12.9%) and other who first spoke a language other than English and French (4.2% vs. 5.3%).

Table 8b shows the same analysis in Table 8 excluding subjects recruited from associations. Overall HIV prevalence was lower at both sites (19.4% vs. 23.8% in Toronto, 10.0% vs. 11.8% in Ottawa), as well as in each language group except those who first spoke another language in Ottawa (5.3% vs. 7.1%). There was no statistical difference in HIV prevalence between language groups in Toronto. HIV prevalence among francophone MSM was significantly lower than among English speakers in Ottawa (1.7% vs. 11.2%, $p = 0.03$).

Table 9 indicates HIV prevalence by age and language group. (We do not report HIV prevalence for cells with denominators of five or less since the proportion is not a valid reflection of true prevalence.) Observed HIV prevalence varied by age and language. In Toronto, HIV prevalence among francophone MSM was 7.7% among participants aged 30-39 years old, 38.5% among 40-49 years old and 30.0% among 50-59 year old participants. HIV prevalence among English speakers in Toronto increased from 5.8% among participants less than 30 years old to 18.0% among 30-39 years old, 28.6% among 40-49 years old, reaching a peak of 32.1% among 50-59 year old and decreased to 19.5% among participants aged 60 years or above.

Among those with sufficient data, the results presented in Table 10 reveal that HIV prevalence was higher among francophone MSM and English speakers who had completed high school or less than

those with higher level of education in Toronto (62.5% vs. 20.4%, $p=0.02$ for francophone; 33.7% vs. 19.8%, $p=0.005$ for English speakers, respectively). The same trend was found in Ottawa, although the difference was not statistically significant.

Table 11 displays HIV prevalence by income and language. HIV prevalence appeared to decrease with increasing personal income for each language group and site, except for francophone participants in Toronto. In Toronto, HIV prevalence was 45.0% among francophone MSM reporting an income less than \$40,000, 9.1% among those reporting an income between \$40,000 to \$69,999 and 26.7% among those with equal or more than \$70,000. HIV prevalence was 8.0%, 3.2% and 0.0%, respectively, among francophone MSM in Ottawa.

88.2% of participants in both Toronto and Ottawa had been previously tested for HIV, with no clear variation across language groups in Toronto (Table 12). However, in Ottawa, participants who first spoke a language other than English or French had a lower rate of HIV testing history than francophone MSM and English speakers (74.2% versus 87.8%, and 90.4%, respectively).

Table 13 presents the age distribution of HIV testing history by language. Low rates of HIV testing were found among participants aged less than 30 years regardless of language and study site.

Table 14 presents the results of previous HIV testing reported by participants. Overall, self-reported HIV prevalence among those with a known HIV result was 17.6% in Toronto and 12.8% in Ottawa. In Toronto, the self-reported HIV prevalence was 19.7% for francophone MSM, 16.8% for English speakers and 16.6% for those who first spoke another language. In Ottawa, it was 10.3% for francophone MSM, 13.7% for English speaker and 4.5% for those who first spoke other languages. For Toronto and Ottawa together, self-reported HIV prevalence varied significantly by language ($p=0.02$).

Table 15 presents the reported previous HIV testing results and HIV serologic results in the study among participants who provided DBS by first language spoken. Overall, we observed a high degree of agreement between reported HIV test result and DBS results. Among those who were HIV-positive by DBS, 14.0% of MSM in Toronto and 23.3% in Ottawa did not know they were HIV-positive. By language, 16.7% (3/18) of francophone MSM, 15.2% (20/132) of English speaking MSM, and 17.4% (4/23) of those who first spoke other languages did not know they were HIV-positive.

Eight English speaking MSM in Toronto and three in Ottawa and three MSM who spoke other languages in Toronto were known to be HIV-negative at their last test and are likely seroconverters.

Few participants found to be HIV-seronegative in our study (0.83% in Toronto and 0.48% in Ottawa) self-reported being HIV-positive at their latest HIV test before the survey. 1.9% of HIV-seronegative francophone MSM in Ottawa self-reported being HIV-positive.

Table 16 presents the distribution of the number of casual sex partners during the previous six months among Lambda participants by language. More than 70% of participants had at least one casual partner during the previous six months regardless of language and study site. Among francophone MSM, 22.6% in Toronto and 18.8% in Ottawa had at least 10 casual partners.

Table 17 presents the distribution of the number of regular sex partners during the previous six months among Lambda participants by language. For francophone, 35.3% in Toronto and 27.5% in Ottawa had more than one regular sexual partner. For English speakers, about 35% at both sites had more than one regular sexual partner. For those who first spoke another language, 39.9% in Toronto and 18.5% in Ottawa had more than one regular sexual partner.

Table 18 presents the proportion of participants who reported delayed condom application during receptive anal sex with HIV-positive or unknown HIV status partner among participants with self-reported HIV-negative or unknown HIV status by first language spoken. 1,492 (77.2%) Toronto participants and 417 (82.4%) Ottawa participants reported being HIV-negative or of unknown HIV status. Among those with information on delayed condom application during receptive anal sex with HIV-positive or unknown status partner, 8.5% of francophone participants in Toronto and Ottawa, 7.7% of English speakers in Toronto and 10.2% of English speakers in Ottawa had delayed condom application during receptive anal sex with HIV-positive or unknown status partner. The proportion for those who first spoke other languages was 10.5% in Toronto and 14.3% in Ottawa. MSM participants who first spoke a language other than English or French or multiple languages were significantly more likely to report delayed application ($p=0.0001$).

Table 19 presents the proportion of participants reporting unprotected receptive anal sex with a casual sex partner or an HIV-positive or unknown HIV status regular partner among participants with self-reported HIV-negative or unknown HIV status by language. 1,097 (73.5%) Toronto participants and 326 (78.2%) Ottawa participants with self-reported HIV negative or unknown HIV status had information on unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner. Among them, overall, 19.0% of Toronto participants and 16.6% of Ottawa participants had unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner. In Toronto, 17.9% of francophone MSM, 17.4% of English speakers, 30.3% of those who spoke other languages had unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner during the previous six months. In Ottawa, 26.9% of francophone MSM, 15.6% of English speakers, 17.3% of those who spoke other languages had unprotected receptive anal. For Toronto and Ottawa together, MSM who first spoke a language other than English or French were significantly more likely to report unprotected receptive anal ($p=0.006$).

Table 20 indicates injection drug use by type of drug and language first spoken. Overall, 3.9% (71/1,839) and 2.5% (12/ 481) of participants in Toronto and Ottawa, respectively, reported injection drug use in the previous 6 months. Excluding steroids, 7.1% of Toronto participants (131) and 5.4% of Ottawa participants (26) reported a lifetime history of injection drug use. In Toronto, fewer francophone MSM (0.69%) reported injection drug use in the previous 6 months than English speakers (4.1%, $p=0.068$) and those who first spoke another language (5.5%, $p=0.032$). No difference was observed between language groups in Ottawa.

Table 21 shows HIV prevalence among participants by history of ever injecting drugs by first language spoken. Overall, HIV prevalence was higher among both Toronto and Ottawa participants with a history of injection drug use. In Toronto, HIV prevalence among those reporting a history of injection drug use was 1.8-fold (2.8-fold??) higher than those without injection drug use (51.8% (95% CI 42.5%-61.0%) vs. 18.7% (95% CI 15.6%-21.7%), $p<0.0001$). In Ottawa, HIV prevalence among those with a history of injection drug use was 5.3-fold (6.3-fold??) higher than those without injection drug use (45.8% (95% CI 25.9%-65.8%) vs. 7.3% (95% CI 4.1%-10.5%), $p<0.0001$).

Similar differences were observed in each language group although the differences were not statistically significant, possibly due to the small numbers observed among francophone MSM and those who first spoke another language.

4. Discussion

Previous studies found that the majority of participants in Ontario completed the questionnaire in English or French, even when other options were available <1> and therefore the Lambda questionnaire was offered only in English and French. The majority of participants spoke English and/or French. The *Lambda* sample differed from the general population as indicated by the 2006 census. Compared to the 2006 census (2), more Lambda participants reported that they spoke English (72.9% versus 55.8% in Toronto) or French (8.6% versus 1.1% in Toronto, 26.9% vs. 16.3% in Ottawa). Few participants reported that they spoke languages other than English or French in Toronto (14.5%) and Ottawa (7.5%). This was significantly less than the general population (43.1% and 20.0% in Toronto and Ottawa, respectively).

We found no significant differences in demographic characters such as age, education and income among francophone participants between Toronto and Ottawa. Fewer francophone MSM in Toronto provided a dry blood spot for an HIV test compared to those in Ottawa (38.5% vs. 62.3%). Toronto francophone MSM had much higher observed HIV prevalence than Ottawa francophones (26.3% vs. 3.9%). With respect to risky sexual behaviours, approximately 8-9% of francophone participants with self-reported HIV-negative or unknown HIV status reported to have delayed condom application during receptive anal sex with HIV-positive or unknown HIV status partner in both sites. 17.9% of Toronto francophone participants and 26.9% of Ottawa francophone participants had unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner. Further studies are needed to explore the difference in HIV prevalence and high risk sexual behaviour between Toronto and Ottawa francophone MSM.

In our study, we found higher HIV prevalence among subjects recruited from associations. Some of these associations may have provided services or organized events that might have selectively served HIV-positive men. It would be useful to examine more closely the programs of the participating associations to determine whether this was the case. To take into consideration a possible bias introduced by this factor, we analyzed HIV prevalence after standardizing for venue type and after excluding subjects recruited from associations.

In our study, we asked questions about injecting drugs and examined HIV prevalence as a function of injection drug use. Almost 10% of subjects reported a history of drug injection. Furthermore, HIV prevalence was over 3-fold greater for those who had ever injected drugs compared to those who had never injected drugs. Similar differentially high HIV prevalence in injection drug users was observed in all language groups. It is likely that most HIV-infected men who injected drugs were infected by this route, given the high risk associated with this practice. Thus, at least 20% of the HIV infections among this MSM population are due to injection. Given the high rate of drug injection among MSM, the issue of injection in this population should receive particular attention with respect to primary prevention.

References

1. Myers T, Allman D, Calzavara L, Maxwell J, Remis R, Swantee C and Travers R. Ontario Men's Survey. ISBN 0-7727-8724-7, 2004
2. Statistics Canada, Cat. No. 97-555-X2006031, Dec 2007. Also available at url:
<http://www12.statcan.ca/english/census06/data/topics/ListProducts.cfm?Temporal=2006&APATH=3&THEME=70&FREE=0&SUB=701&GRP=1>

Appendix: Algorithm for defining two high risk sexual behaviour variables

Since there was no direct variables that describe delayed condom application during receptive anal sex with HIV-positive partner or delayed condom application during receptive anal sex with HIV unknown status partner, we developed an algorithm to define a new variable, which was derived from seven other variables asked in the original questionnaire (Q19-number of male sex partners (general), Q25-anal sex with at least one man, Q25b-unprotected anal sex with at least one man, Q25b1-unprotected anal sex with HIV+ partner, Q25b3-unprotected anal sex with unknown HIV status partner and Q27b – delayed condom application during receptive anal sex). Participants were classified as ‘Yes’ for delayed condom application during receptive anal sex with HIV-positive partner or unknown HIV status partner if they reported having delayed condom application during receptive anal sex and either they had unprotected anal sex with HIV-positive partner or they had unprotected anal sex with unknown HIV status partner. Participants were classified as ‘No’ for delayed condom application during receptive anal sex with HIV-positive partner or unknown HIV status partner if they had neither sex partner, nor anal sex with a man, nor unprotected anal sex with at least one man, nor unprotected anal sex with HIV-positive partner and no unprotected anal sex with unknown HIV status partner nor delayed condom application during receptive anal sex. The rest of participants were assigned as ‘Unknown’.

No direct variables described unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner, we developed an algorithm to define a new variable, which was derived from 11 other variables asked in the original questionnaire (Q29-number of casual partner, Q31-receptive anal sex with a casual partner, Q31a-condom use during receptive anal sex with a casual partner, Q32a-unprotected anal sex with a casual partner, Q33-number of regular partners, Q34-sex with a regular HIV-positive partner, Q36-receptive anal sex with a regular HIV-positive partner, Q36a-condom use during receptive anal sex with a regular HIV-positive partner, Q37-sex with a unknown HIV status regular partner, Q39-receptive anal sex with a unknown HIV status regular partner, Q39a-condom use during receptive anal sex with a unknown HIV status regular partner). Participants were classified as ‘Yes’ for unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner if they reported “Never” or “Rarely” or “Sometimes” or “Most of the time” or “Almost every time” about condom use during receptive anal sex either with a casual partner or with a regular HIV-positive partner or with a unknown HIV status partner. Participants were classified as ‘No’ for unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner if they had neither casual sex partner, nor receptive anal sex with a casual partner nor unprotected anal sex with a casual partner or used condom “All the time” during receptive anal sex with a casual partner and if they had neither regular partner, nor sex with a regular HIV-positive partner and with a unknown HIV status partner, nor receptive anal sex with a regular HIV-positive partner and with a unknown HIV status partner, or used condom “All the time” during receptive anal sex with a regular HIV-positive partner and with a unknown HIV status partner. The rest of participants were assigned as ‘Unknown’.

Table 1 First language spoken of Lambda participants

First language	Toronto		Ottawa		Both sites	
	N	%	N	%	N	%
French	148	8.6	122	26.9	270	12.5
English	1,249	72.9	286	63.1	1,535	70.8
Other	248	14.5	34	7.5	282	13.0
Multi-languages *	69	4.0	11	2.4	80	3.7
Total excluding missing	1,714	100.0	453	100.0	2,167	100.0
Missing	218		53		271	
Total	1,932		506		2,438	

* Including English/French, English/other, French/other, English/French/other

Table 2 **Venue type of Lambda participants recruited by first language spoken**

Venue type	French	English	Other	Multi-languages	Unknown	Total
Toronto						
Total number	148	1,249	248	69	218	1,932
Unknown	9	74	17	4	34	138
	%*	%	%	%	%	%
Bar	41.0	46.4	37.2	40.0	60.9	46.0
Coffee shop	0.7	0.3	0.0	1.5	0.0	0.3
Bathhouse	8.6	10.5	14.3	9.2	10.3	10.8
Event	28.8	23.9	22.5	26.2	12.5	23.0
Association	16.5	13.4	19.0	15.4	9.2	14.0
Fixed site (Office)	0.0	0.9	2.2	1.5	1.6	1.1
Church	3.6	4.2	4.3	4.6	3.8	4.1
Other	0.7	0.4	0.4	1.5	1.6	0.6
Total	100.0	100.0	100.0	100.0	100.0	100.0
Ottawa						
Total number	122	286	34	11	53	506
Unknown	13	13	2	0	0	28
	%*	%	%	%	%	%
Bar	36.7	36.6	28.1	36.4	50.9	37.7
Coffee shop	2.8	0.7	6.3	0.0	0.0	1.5
Bathhouse	0.9	4.4	9.4	0.0	1.9	3.6
Event	22.9	23.4	21.9	0.0	24.5	22.8
Association	27.5	33.7	18.8	54.5	20.8	30.3
Fixed site (Office)	0.0	0.4	0.0	0.0	0.0	0.2
Church	0.0	0.0	0.0	0.0	0.0	0.0
Other	9.2	0.73	15.6	9.1	1.9	4.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Both sites						
Total number	270	1,535	282	80	271	2,438
Unknown	22	87	19	4	34	166
	%*	%	%	%	%	%
Bar	39.1	44.5	36.1	39.5	58.6	44.3
Coffee shop	1.6	0.4	0.8	1.3	0.0	0.6
Bathhouse	5.2	9.3	13.7	7.9	8.4	9.2
Event	26.2	23.8	22.4	22.4	15.2	23.0
Association	21.4	17.2	19.0	21.1	11.8	17.4
Fixed site (Office)	0.0	0.83	1.9	1.3	1.3	0.9
Church	2.0	3.4	3.8	3.9	3.0	3.3
Other	4.4	0.5	2.3	2.6	1.7	1.3
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known venue type

Table 3 Age distribution of Lambda participants by first language spoken

A. Toronto

Age in years	French	English	Other	Multi-languages	Unknown	Total
Total number	148	1,249	248	69	218	1,714
Unknown	5	43	13	1	206	62
	%*	%	%	%	%	%
Less than 19	0.0	1.2	1.3	0.0	0.0	1.1
20-24	3.5	8.8	8.5	13.2	0.0	8.5
25-29	12.6	11.0	11.1	14.7	25.0	11.3
30-34	17.5	11.1	19.6	19.1	0.0	13.2
35-39	12.6	13.5	18.3	14.7	25.0	14.2
40-44	18.9	17.5	19.1	20.6	25.0	18.0
45-49	14.0	15.3	11.9	16.2	8.3	14.8
50-54	9.8	7.8	5.1	1.5	8.3	7.3
55-59	7.0	5.6	2.1	0.0	0.0	5.0
60-64	3.5	3.9	2.6	0.0	0.0	3.5
65 or older	0.7	4.1	0.4	0.0	8.3	3.1
Total	100.0	100.0	100.0	100.0	100.0	100.0
Mean age	40.6	40.9	37.4	35.0		
95% CI	(38.9-42.3)	(40.2-41.6)	(36.2-38.6)	(33.0-37.0)		

* Proportion among those with known age

B. Ottawa

Age in years	French	English	Other	Multi-languages	Unknown	Total
Total number	122	286	34	11	53	453
Unknown	1	9	1	0	51	11
	%*	%	%	%	%	%
Less than 19	3.3	2.2	0.0	0.0	0.0	2.3
20-24	14.0	11.9	15.2	9.1	0.0	12.7
25-29	7.4	12.6	15.2	0.0	50.0	11.1
30-34	6.6	12.3	12.1	9.1	0.0	10.6
35-39	8.3	11.6	18.2	36.4	0.0	11.8
40-44	15.7	17.3	15.2	18.2	0.0	16.7
45-49	19.0	12.6	15.2	18.2	0.0	14.7
50-54	13.2	5.8	0.0	0.0	0.0	7.2
55-59	5.0	3.2	6.1	0.0	50.0	3.8
60-64	5.0	6.1	3.0	0.0	0.0	5.4
65 or older	2.5	4.3	0.0	9.1	0.0	3.6
Total	100.0	100.0	100.0	100.0	100.0	100.0
Mean age	40.8	39.6	36.9	41.1		
95% CI	(38.5-43.2)	(38.0-41.1)	(33.3-40.5)	(34.2-48.0)		

* Proportion among those with known age

C. Both sites

Age in years	French	English	Other	Multi-languages	Unknown	Total
Total number	270	1,535	282	80	271	2,167
Unknown	6	52	14	1	257	73
	%*	%	%	%	%	%
Less than 19	1.5	1.4	1.1	0.0	0.0	1.3
20-24	8.3	9.4	9.3	12.7	0.0	9.4
25-29	10.2	11.3	11.6	12.7	28.6	11.3
30-34	12.5	11.3	18.7	17.7	0.0	12.7
35-39	10.6	13.1	18.3	17.7	21.4	13.7
40-44	17.4	17.5	18.7	20.3	21.4	17.7
45-49	16.3	14.8	12.3	16.5	7.1	14.8
50-54	11.4	7.4	4.5	1.3	7.1	7.3
55-59	6.1	5.2	2.6	0.0	7.1	4.8
60-64	4.2	4.3	2.6	0.0	0.0	3.9
65 or older	1.5	4.2	0.4	1.3	7.1	3.2
Total	100.0	100.0	100.0	100.0	100.0	100.0
Mean age	40.7	40.6	37.3	35.9		
95% CI	(39.3-42.1)	(40.0-41.3)	(36.2-38.5)	(33.9-37.9)		

* Proportion among those with known age

Table 4 Educational level attained by Lambda participants by language first spoken

Education	French	English	Other	Multi-languages	Unknown	Total
Toronto						
Total number	148	1,249	248	69	218	1,932
Unknown	0	9	8	2	120	139
	%*	%	%	%	%	%
Elementary/primary school	2.0	0.2	1.3	0.0	1.0	0.6
Some secondary/high school	5.4	6.3	2.9	6.0	5.1	5.7
Completed secondary/high school	4.7	10.7	6.3	9.0	8.2	9.4
Some college or university	19.6	22.1	24.6	23.9	24.5	22.4
Completed college or university	42.6	39.5	45.0	37.3	45.9	40.8
Some graduate education	6.8	6.9	5.4	6.0	3.1	6.4
Completed graduate education	18.9	14.3	14.6	17.9	12.2	14.7
Total	100.0	100.0	100.0	100.0	100.0	100.0
Ottawa						
Total number	122	286	34	11	53	506
Unknown	0	4	0	0	29	33
	%*	%	%	%	%	%
Elementary/primary school	0.0	0.4	0.0	0.0	0.0	0.2
Some secondary/high school	4.1	5.3	2.9	18.2	4.2	5.1
Completed secondary/high school	9.8	7.4	2.9	9.1	16.7	8.2
Some college or university	20.5	22.0	23.5	18.2	16.7	21.4
Completed college or university	49.2	40.4	38.2	27.3	37.5	42.1
Some graduate education	4.1	7.1	8.8	9.1	8.3	6.6
Completed graduate education	12.3	17.4	23.5	18.2	16.7	16.5
Total	100.0	100.0	100.0	100.0	100.0	100.0
Both sites						
Total number	270	1,535	282	80	271	2,438
Unknown	0	13	8	2	149	172
	%*	%	%	%	%	%
Elementary/primary school	1.1	0.3	1.1	0.0	0.8	0.49
Some secondary/high school	4.8	6.1	2.9	7.7	4.9	5.6
Completed secondary/high school	7.0	10.1	5.8	9.0	9.8	9.2
Some college or university	20.0	22.1	24.5	23.1	23.0	22.2
Completed college or university	45.6	39.7	44.2	35.9	44.3	41.0
Some graduate education	5.6	6.9	5.8	6.4	4.1	6.4
Completed graduate education	15.9	14.8	15.7	17.9	13.1	15.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known level of education

Table 5 Income distribution of Lambda participants by first language spoken

A. Toronto

Income	French	English	Other	Multi-languages	Unknown	Total
Total number	148	1,249	248	69	218	1,714
Unknown	2	32	11	3	123	48
	%*	%	%	%	%	%
No personal income	2.1	2.1	5.9	6.1	3.2	2.8
\$1 - \$9,999	3.4	6.2	7.6	9.1	5.3	6.3
\$10,000 - \$19,999	6.8	12.0	9.7	16.7	6.3	11.4
\$20,000 - \$29,999	9.6	10.1	15.2	10.6	12.6	10.8
\$30,000 - \$39,999	13.0	14.3	14.3	18.2	13.7	14.3
\$40,000 - \$49,999	15.1	12.9	12.7	16.7	14.7	13.2
\$50,000 - \$59,999	9.6	10.0	9.7	9.1	11.6	9.9
\$60,000 - \$69,999	9.6	9.4	7.2	3.0	10.5	8.8
\$70,000 - \$79,999	6.2	6.3	5.1	4.5	7.4	6.1
\$80,000 - \$89,000	6.8	5.9	4.6	0.0	5.3	5.6
\$90,000 - \$99,000	2.1	2.3	0.0	1.5	1.1	1.9
\$100,000 or more	15.8	8.5	8.0	4.5	8.4	8.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known income

B. Ottawa

Income	French	English	Other	Multi-languages	Unknown	Total
Total number	122	286	34	11	53	453
Unknown	7	6	1	0	29	14
	%*	%	%	%	%	%
No personal income	0.0	1.4	6.1	9.1	0.0	1.6
\$1 - \$9,999	5.2	9.6	6.1	9.1	4.2	8.2
\$10,000 - \$19,999	8.7	11.1	18.2	36.4	12.5	11.6
\$20,000 - \$29,999	12.2	11.1	15.2	0.0	4.2	11.4
\$30,000 - \$39,999	9.6	10.0	9.1	18.2	20.8	10.0
\$40,000 - \$49,999	12.2	9.6	9.1	9.1	4.2	10.3
\$50,000 - \$59,999	16.5	11.4	3.0	0.0	12.5	11.8
\$60,000 - \$69,999	11.3	8.6	12.1	0.0	4.2	9.3
\$70,000 - \$79,999	10.4	8.6	9.1	18.2	4.2	9.3
\$80,000 - \$89,000	5.2	5.4	9.1	0.0	8.3	5.5
\$90,000 - \$99,000	0.9	3.2	0.0	0.0	12.5	2.3
\$100,000 or more	7.8	10.0	3.0	0.0	12.5	8.7
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known income

C. Both sites

Income	French	English	Other	Multi-languages	Unknown	Total
Total number	270	1,535	282	80	271	2,167
Unknown	9	38	12	3	152	62
	%*	%	%	%	%	%
No personal income	1.2	1.9	5.9	6.5	2.5	2.5
\$1 - \$9,999	4.2	6.9	7.4	9.1	5.0	6.7
\$10,000 - \$19,999	7.7	11.8	10.7	19.5	7.6	11.4
\$20,000 - \$29,999	10.7	10.3	15.2	9.1	10.9	10.9
\$30,000 - \$39,999	11.5	13.5	13.7	18.2	15.1	13.4
\$40,000 - \$49,999	13.8	12.3	12.2	15.6	12.6	12.6
\$50,000 - \$59,999	12.6	10.3	8.9	7.8	11.8	10.3
\$60,000 - \$69,999	10.3	9.2	7.8	2.6	9.2	8.9
\$70,000 - \$79,999	8.0	6.7	5.6	6.5	6.7	6.7
\$80,000 - \$89,000	6.1	5.8	5.2	0.0	5.9	5.6
\$90,000 - \$99,000	1.5	2.5	0.0	1.3	3.4	2.0
\$100,000 or more	12.3	8.8	7.4	3.9	9.2	8.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known income

Table 6 Ethnicity of Lambda participants by first language spoken

Ethnicity	French	English	Other	Multiple languages	Unknown	Total
Toronto						
Total number	148	1,249	248	69	218	1,932
Unknown	6	32	12	5	124	179
	%*	%	%	%	%	%
European / North American	78.9	76.6	41.9	29.7	66.0	69.8
Aboriginal	9.9	6.2	1.3	9.4	3.2	5.8
African / Caribbean	4.2	6.3	3.0	9.4	4.3	5.7
Latin	1.4	0.5	16.9	6.3	4.3	3.2
South / Southeast Asian	3.5	7.7	28.4	34.4	16.0	11.6
Multi-ethnic / other	2.1	2.7	8.5	10.9	6.4	3.9
Total	100.0	100.0	100.0	100.0	100.0	100.0
Ottawa						
Total number	140	268	34	11	53	506
Unknown	6	8	1	1	30	46
	%*	%	%	%	%	%
European / North American	76.1	90.8	33.3	70.0	95.7	82.2
Aboriginal	6.0	3.8	3.0	10.0	4.3	4.6
African / Caribbean	0.7	2.3	6.1	0.0	0.0	2.0
Latin	0.0	1.2	6.1	0.0	0.0	1.1
South / Southeast Asian	9.0	0.4	30.3	20.0	0.0	5.4
Multi-ethnic / other	8.2	1.5	21.2	0.0	0.0	4.8
Total	100.0	100.0	100.0	100.0	100.0	100.0
Both sites						
Total number	288	1,517	282	80	271	2,438
Unknown	12	40	13	6	154	225
	%*	%	%	%	%	%
European / North American	77.5	79.1	40.9	35.1	71.8	72.4
Aboriginal	8.0	5.8	1.5	9.5	3.4	5.5
African / Caribbean	2.5	5.6	3.3	8.1	3.4	4.9
Latin	0.7	0.6	15.6	5.4	3.4	2.8
South / Southeast Asian	6.2	6.4	28.6	32.4	12.8	10.3
Multi-ethnic / other	5.1	2.5	10.0	9.5	5.1	4.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

* Proportion among those with known ethnicity

Table 7 Proportion of HIV tests and prevalence among Lambda participants who provided DBS by first language spoken

	No DBS	HIV test					Total
		HIV tested	% tested	HIV-positive	HIV prevalence		
					%	95% CI	
Toronto							
French	91	57	38.5	15	26.3	14.9-37.7	148
English	728	521	41.7	118	22.6	19.1-26.2	1,249
Other	157	91	36.7	23	25.3	16.3-34.2	248
Multiple languages	40	29	42.0	9	31.0	14.2-47.9	69
Total excluding unknown	1,016	698	40.7	165	23.6	20.5-26.8	1,714
Unknown	125	93	42.7	23	24.7	16.0-33.5	218
Total	1,141	791	40.9	188	23.8	20.8-26.7	1,932
Ottawa							
French	46	76	62.3	3	3.9	0.0-8.3	122
English	115	171	59.8	22	12.9	7.8-17.9	286
Other	15	19	55.9	1	5.3	0.0-15.3	34
Multiple languages	7	4	36.4	2	--	--	11
Total excluding unknown	183	270	59.6	28	10.4	6.7-14.0	453
Unknown	19	34	64.2	8	23.5	9.3-37.8	53
Total	202	304	60.1	36	11.8	8.2-15.5	506
Both sites							
French	137	133	49.3	18	13.5	7.7-19.3	270
English	843	692	45.1	140	20.2	17.2-23.2	1,535
Other	172	110	39.0	24	21.8	14.1-29.5	282
Multiple languages	47	33	41.3	11	33.3	17.2-49.4	80
Total excluding unknown	1,199	968	44.7	193	19.9	17.4-22.5	2,167
Unknown	144	127	46.9	31	24.4	16.9-31.9	271
Total	1,343	1,095	44.9	224	20.5	18.1-22.8	2,438

-- Insufficient number

Note: HIV prevalence in some groups should be interpreted cautiously, due to relative small sample size.

Table 8 HIV prevalence among Lambda participants by recruitment venue type and first language spoken

Venue	French		English		Other		Multi-languages		Missing		Total	
	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%
Toronto												
Bar	19	21.1	180	19.4	22	4.5	11	36.4	39	23.1	271	19.6
Bathhouse	5	--	40	25.0	9	22.2	1	--	6	33.3	61	26.2
Event	10	20.0	117	16.2	13	23.1	8	0.0	9	44.4	157	17.8
Associations	18	33.3	99	42.4	25	44.0	4	--	6	33.3	152	42.1
Others*	2	--	43	14.0	14	28.6	4	--	8	12.5	71	16.9
Total excluding unknown	54	25.9	479	23.4	83	25.3	28	28.6	68	26.5	712	24.3
Unknown	3	--	42	14.3	8	25.0	1	--	25	20.0	79	19.0
Total	57	26.3	521	22.6	91	25.3	29	31.0	93	24.7	791	23.8
Ottawa												
Bar	18	0.0	43	20.9	6	16.7	1	--	17	17.6	85	16.5
Bathhouse	1	--	8	0.0	1	--	0	--	1	--	11	0.0
Event	17	0.0	45	6.7	5	--	0	--	11	27.3	78	7.7
Associations	17	11.8	64	15.6	5	--	2	--	5	--	93	16.1
Others*	13	7.7	3	--	1	--	1	--	0	--	18	5.6
Total excluding unknown	66	4.5	163	13.5	18	5.6	4	--	34	23.5	285	12.6
Unknown	10	0.0	8	0.0	1	--	0	--	0	--	19	0.0
Total	76	3.9	171	12.9	19	5.3	4	--	34	23.5	304	11.8
Both sites												
Bar	37	10.8	223	19.7	28	7.1	12	41.7	56	21.4	356	18.8
Bathhouse	6	33.3	48	20.8	10	20.0	1	--	7	28.6	72	22.2
Event	27	7.4	162	13.6	18	16.7	8	0.0	20	35.0	235	14.5
Associations	35	22.9	163	31.9	30	36.7	6	66.7	11	36.4	245	32.2
Others*	15	6.7	46	13.0	15	26.7	5	--	8	12.5	89	14.6
Total excluding unknown	120	14.2	642	20.9	101	21.8	32	31.3	102	25.5	997	21.0
Unknown	13	7.7	50	12.0	9	22.2	1	--	25	20.0	98	15.3
Total	133	13.5	692	20.2	110	21.8	33	33.3	127	24.4	1,095	20.5

-- Insufficient numbers

* Including coffee shop, fixed-site, church and other

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

Table 8a HIV prevalence among Lambda participants by first language spoken standardized by recruitment venue type

Venue	French		English		Other		Multi-languages		Unknown		Total	
	Adjusted tested	HIV+ number	Adjusted tested	HIV+ number	Adjusted tested	HIV+ number	Adjusted tested	HIV+ number	Adjusted tested	HIV+ number	Adjusted tested	HIV+ number
Toronto												
Bar	16	3	168	33	23	1	11	4	41	9	258	50
Bathhouse	3	1	36	9	8	2	1	0	5	2	53	14
Event	12	2	122	20	15	3	7	0	15	7	170	32
Association	15	5	123	52	25	11	5	4	8	3	176	75
Others*	6	0	35	5	12	4	4	1	6	1	64	10
Unknown	6	2	38	5	7	2	1	1	18	4	70	14
Total	57	14	521	124	91	23	29	10	93	25	791	194
Standardized prevalence %		23.8%		23.8%		24.9%		33.7%		26.6%		24.6%
Ottawa												
Bar	21	0	55	12	5	1	1	1	15	3	98	16
Bathhouse	3	0	12	0	2	0	0	0	2	0	19	0
Event	15	0	40	3	3	0	1	0	5	1	65	4
Association	20	2	40	6	5	0	1	0	3	1	69	10
Other*	9	1	11	0	3	0	1	0	2	0	25	1
Unknown	7	0	12	0	2	0	0	0	7	0	28	0
Total	76	3	171	20	19	1	4	2	34	5	304	31
Standardized prevalence %		4.0%		12.0%		4.2%		--		15.5%		10.3%
Both sites												
Bar	37	3	223	44	28	2	12	5	56	12	356	67
Bathhouse	6	1	48	9	10	2	1	0	7	2	72	14
Event	27	2	162	22	18	3	8	0	20	8	235	36
Association	35	7	163	58	30	11	6	4	11	4	245	85
Other*	15	1	46	5	15	4	5	1	8	1	89	11
Unknown	13	2	50	5	9	2	1	1	25	4	98	14
Total	133	17	692	144	110	23	33	12	127	30	1,095	226
Standardized prevalence %		12.4%		20.8%		21.3%		35.1%		23.7%		20.6%

Table 8b HIV prevalence among Lambda participants excluding participants recruited from associations by recruitment venue type and first language spoken

Venue	French		English		Other		Multi-languages		Missing		Total	
	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%
Toronto												
Bar	19	21.1	180	19.4	22	4.5	11	36.4	39	23.1	271	19.6
Bathhouse	5	40.0	40	25.0	9	22.2	1	--	6	33.3	61	26.2
Event	10	20.0	117	16.2	13	23.1	8	0.0	9	44.4	157	17.8
Others*	2	--	43	14.0	14	28.6	4	--	8	12.5	71	16.9
Total excluding unknown	36	22.2	380	18.4	58	17.2	24	20.8	62	25.8	560	19.5
Unknown	3	--	42	14.3	8	25.0	1	--	25	20.0	79	19.0
Total	39	23.1	422	18.0	66	18.2	25	24.0	87	24.1	639	19.4
Ottawa												
Bar	18	0.0	43	20.9	6	16.7	1	--	17	17.6	85	16.5
Bathhouse	1	--	8	0.0	1	--	0	--	1	--	11	0.0
Event	17	0.0	45	6.7	5	--	0	--	11	27.3	78	7.7
Other*	13	7.7	3	--	1	--	1	--	0	--	18	5.6
Total excluding unknown	49	2.0	99	12.1	13	7.7	2	--	29	20.7	192	10.9
Unknown	10	0.0	8	0.0	1	--	0	--	0	--	19	0.0
Total	59	1.7	107	11.2	14	7.1	2	--	29	20.7	211	10.0
Both sites												
Bar	37	10.8	223	19.7	28	7.1	12	41.7	56	21.4	356	18.8
Bathhouse	6	33.3	48	20.8	10	20.0	1	--	7	28.6	72	22.2
Event	27	7.4	162	13.6	18	16.7	8	0.0	20	35.0	235	14.5
Other*	15	6.7	46	13.0	15	26.7	5	--	8	12.5	89	14.6
Total excluding unknown	85	10.6	479	17.1	71	15.5	26	23.1	91	24.2	752	17.3
Unknown	13	7.7	50	12.0	9	22.2	1	--	25	20.0	98	15.3
Total	98	10.2	529	16.6	80	16.3	27	25.9	116	23.3	850	17.1

-- Insufficient numbers

* Including coffee shop, fixed-site, church and other

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

Table 9 HIV prevalence among Lambda participants who provided DBS by age and first language spoken

Age group (years)	French		English		Other		Multi-languages		Missing		Total	
	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%
Toronto												
< 30	5	--	86	5.8	15	20.0	6	0.0	1	--	113	8.0
30-39	13	7.7	100	18.0	36	19.4	10	30.0	1	--	160	18.1
40-49	26	38.5	199	28.6	27	29.6	13	46.2	0	--	265	30.6
50-59	10	30.0	81	32.1	9	33.3	0	--	0	--	100	32.0
60+	2	--	41	19.5	2	--	0	--	1	--	46	21.7
Total excluding unknown	56	26.8	507	22.5	89	24.7	29	31.0	3	--	684	23.5
Unknown	1	--	14	28.6	2	--	0	--	90	24.4	107	25.2
Total	57	26.3	521	22.6	91	25.3	29	31.0	93	24.7	791	23.8
Ottawa												
< 30	15	0.0	51	0.0	6	0.0	0	--	0	--	72	0.0
30-39	10	0.0	31	16.1	3	--	1	--	0	--	45	11.1
40-49	28	7.1	49	22.4	6	16.7	2	--	0	--	85	18.8
50-59	16	6.3	16	18.8	2	--	0	--	0	--	34	11.8
60+	6	0.0	19	0.0	1	--	1	--	0	--	27	0.0
Total excluding unknown	75	4.0	166	11.4	18	5.6	4	--	0	--	263	9.5
Unknown	1	--	5	--	1	--	0	--	34	23.5	41	26.8
Total	76	3.9	171	12.9	19	5.3	4	--	34	23.5	304	11.8
Both sites												
< 30	20	5.0	137	3.6	21	14.3	6	0.0	1	--	185	4.9
30-39	23	4.3	131	17.6	39	17.9	11	27.3	1	--	205	16.6
40-49	54	22.2	248	27.4	33	27.3	15	53.3	0	--	350	27.7
50-59	26	15.4	97	29.9	11	27.3	0	--	0	--	134	26.9
60+	8	0.0	60	13.3	3	--	1	--	1	--	73	13.7
Total excluding unknown	131	13.7	673	19.8	107	21.5	33	33.3	3	--	947	19.6
Unknown	2	--	19	36.8	3	--	0	--	124	24.2	148	25.7
Total	133	13.5	692	20.2	110	21.8	33	33.3	127	24.4	1,095	20.5

-- Insufficient numbers

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

Table 10 HIV prevalence among Lambda participants who provided DBS by education and first language spoken

	Completed high school or less		Some college/university or above		Unknown		Total	
	Tested	%	Tested	%	Tested	%	Tested	%
Toronto								
French	8	62.5	49	20.4	0	--	57	26.3
English	98	33.7	419	19.8	4	--	521	22.6
Other	9	44.4	78	23.1	4	--	91	25.3
Multiple languages	3	66.7	25	28.0	1	--	29	31.0
Total excluding unknown	118	37.3	571	20.7	9	33.3	698	23.6
Unknown	3	--	32	28.1	58	20.7	93	24.7
Total	121	38.0	603	21.1	67	22.4	791	23.8
Ottawa								
French	11	9.1	65	3.1	0	--	76	3.9
English	20	25.0	151	11.3	0	--	171	12.9
Other	2	--	17	0.0	0	--	19	5.3
Multiple languages	3	--	1	--	0	--	4	--
Total excluding unknown	36	25.0	234	8.1	0	--	270	10.4
Unknown	3	--	12	16.7	19	31.6	34	23.5
Total	39	23.1	246	8.5	19	31.6	304	11.8
Both sites								
French	19	31.6	114	10.5	0	--	133	13.5
English	118	32.2	570	17.5	4	--	692	20.2
Other	11	45.5	95	18.9	4	--	110	21.8
Multiple languages	6	66.7	26	26.9	1	--	33	33.3
Total excluding unknown	154	34.4	805	17.0	9	33.3	968	19.9
Unknown	6	33.3	44	25.0	77	23.4	127	24.4
Total	160	34.4	849	17.4	86	24.4	1,095	20.5

-- Insufficient numbers

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

Table 11 HIV prevalence among Lambda participants who provided DBS by income and first language spoken

	None - \$39,999		\$40,000 - 69,999		\$70,000 or above		Unknown		Total	
	Tested	%	Tested	%	Tested	%	Tested	%	Tested	%
Toronto										
French	20	45.0	22	9.1	15	26.7	0	--	57	26.3
English	256	30.9	146	18.5	111	9.9	8	12.5	521	22.6
Other	42	33.3	29	20.7	15	13.3	5	--	91	25.3
Multiple languages	15	53.3	10	10.0	2	--	2	--	29	31.0
Total excluding unknown	333	33.0	207	17.4	143	11.9	15	13.3	698	23.6
Unknown	13	38.5	11	36.4	10	10.0	59	22.0	93	24.7
Total	346	33.2	218	18.3	153	11.8	74	20.3	791	23.8
Ottawa										
French	25	8.0	31	3.2	17	0.0	3	--	76	3.9
English	75	17.3	50	10.0	43	7.0	3	--	171	12.9
Other	9	11.1	5	--	4	--	1	--	19	5.3
Multiple languages	4	--	0	--	0	--	0	--	4	--
Total excluding unknown	113	15.9	86	7.0	64	4.7	7	14.3	270	10.4
Unknown	9	22.2	2	--	4	--	19	31.6	34	23.5
Total	122	16.4	88	6.8	68	4.4	26	26.9	304	11.8
Both sites										
French	45	24.4	53	5.7	32	12.5	3	--	133	13.5
English	331	27.8	196	16.3	154	9.1	11	18.2	692	20.2
Other	51	29.4	34	17.6	19	10.5	6	16.7	110	21.8
Multiple languages	19	52.6	10	10.0	2	--	2	--	33	33.3
Total excluding unknown	446	28.7	293	14.3	207	9.7	22	13.6	968	19.9
Unknown	22	31.8	13	30.8	14	7.1	78	24.4	127	24.4
Total	468	28.8	306	15.0	221	9.5	100	22.0	1,095	20.5

-- Insufficient numbers

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

Table 12 HIV testing history among Lambda participants by first language spoken

	Ever tested			Unknown	Total
	Yes	No	% ever tested		
Toronto					
French	126	15	89.4	7	148
English	1,017	144	87.6	88	1,249
Other	198	27	88.0	23	248
Multiple languages	63	2	96.9	4	69
Total excluding unknown	1,404	188	88.2	122	1,714
Unknown	141	20	87.6	57	218
Total	1,545	208	88.1	179	1,932
Ottawa					
French	101	14	87.8	7	122
English	245	26	90.4	15	286
Other	23	8	74.2	3	34
Multiple languages	9	1	90.0	1	11
Total excluding unknown	378	49	88.5	26	453
Unknown	35	4	89.7	14	53
Total	413	53	88.6	40	506
Both sites					
French	227	29	88.7	14	270
English	1,262	170	88.1	103	1,535
Other	221	35	86.3	26	282
Multiple languages	72	3	96.0	5	80
Total excluding unknown	1,782	237	88.3	148	2,167
Unknown	176	24	88.0	71	271
Total	1,958	261	88.2	219	2,438

Table 13 HIV testing history among Lambda participants by age and first language spoken

Age group (years)	French		English		Other		Multi-languages		Missing		Total	
	N	% tested	N	% tested	N	% tested	N	% tested	N	% tested	N	% tested
Toronto												
< 30	21	81.0	223	77.6	42	78.6	17	88.2	3	66.7	306	78.4
30-39	42	95.2	281	89.3	84	95.2	22	100.0	3	66.7	432	91.4
40-49	44	95.5	376	91.5	66	86.4	24	100.0	3	100.0	513	91.6
50-59	23	87.0	154	92.9	17	88.2	1	100.0	1	100.0	196	91.8
60+	6	83.3	91	83.5	7	85.7	0	--	1	100.0	105	83.8
Total excluding unknown	136	91.2	1,125	87.7	216	88.4	64	96.9	11	81.8	1,552	88.5
Unknown	5	40.0	36	83.3	9	77.8	1	100.0	150	88.0	201	85.6
Total	141	89.4	1,161	87.6	225	88.0	65	96.9	161	87.6	1,753	88.1
Ottawa												
< 30	29	82.8	70	78.6	9	66.7	1	100.0	1	100.0	110	79.1
30-39	16	87.5	64	93.8	9	77.8	5	100.0	0	--	94	91.5
40-49	40	97.5	77	97.4	9	77.8	3	66.7	0	--	129	95.3
50-59	21	81.0	24	95.8	2	100.0	0	--	1	100.0	48	89.6
60+	8	75.0	28	92.9	1	100.0	1	100.0	0	--	38	89.5
Total excluding unknown	114	87.7	263	90.9	30	76.7	10	90.0	2	100.0	419	89.0
Unknown	1	100.0	8	75.0	1	0.0	0	--	37	89.2	47	85.1
Total	115	87.8	271	90.4	31	74.2	10	90.0	39	89.7	466	88.6
Both sites												
< 30	50	82.0	293	77.8	51	76.5	18	88.9	4	75.0	416	78.6
30-39	58	93.1	345	90.1	93	93.5	27	100.0	3	66.7	526	91.4
40-49	84	96.4	453	92.5	75	85.3	27	96.3	3	100.0	642	92.4
50-59	44	84.1	178	93.3	19	89.5	1	100.0	2	100.0	244	91.4
60+	14	78.6	119	85.7	8	87.5	1	100.0	1	100.0	143	85.3
Total excluding unknown	250	89.6	1,388	88.3	246	87.0	74	95.9	13	84.6	1,971	88.6
Unknown	6	50.0	44	81.8	10	70.0	1	100.0	187	88.2	248	85.5
Total	256	88.7	1,432	88.1	256	86.3	75	96.0	200	88.0	2,219	88.2

Table 14 Latest HIV testing result among Lambda participants by first language spoken

	Ever tested				Never tested	Unknown testing	Total
	HIV negative	HIV positive	% HIV prevalence	Unknown result			
Toronto							
French	98	24	19.7	4	15	7	148
English	813	164	16.8	40	144	88	1,249
Other	156	31	16.6	11	27	23	248
Multiple languages	42	17	28.8	4	2	4	69
Total excluding unknown	1,109	236	17.5	59	188	122	1,714
Unknown	109	25	18.7	7	20	57	218
Total	1,218	261	17.6	66	208	179	1,932
Ottawa							
French	78	9	10.3	14	14	7	122
English	202	32	13.7	11	26	15	286
Other	21	1	4.5	1	8	3	34
Multiple languages	4	3	42.9	2	1	1	11
Total excluding unknown	305	45	12.9	28	49	26	453
Unknown	30	4	11.8	1	4	14	53
Total	335	49	12.8	29	53	40	506
Both sites							
French	176	33	15.8	18	29	14	270
English	1,015	196	16.2	51	170	103	1,535
Other	177	32	15.3	12	35	26	282
Multiple languages	46	20	30.3	6	3	5	80
Total excluding unknown	1,414	281	16.6	87	237	148	2,167
Unknown	139	29	17.3	8	24	71	271
Total	1,553	310	16.6	95	261	219	2,438

Table 15 Reported latest HIV testing results and HIV-sero results among Lambda participants who provided DBS and by first language spoken

	HIV seropositive				HIV seronegative				Kappa
	Total	Unk. testing	Unk. HIV positive ¹	% of unk. HIV positive	Total	Unk. ²	Reported HIV positive	% reported HIV positive	
Toronto									
French	15	0	2	13.3	42	6	0	0.0	0.91
English	118	6	15	13.4	403	65	4	1.2	1.0
Other	23	1	4	18.2	68	13	0	0.0	0.71
Multiple languages	9	0	0	0.0	20	3	0	0.0	1.0
Total excluding unknown	165	7	21	13.3	533	87	4	0.9	0.92
Unknown	23	10	3	23.1	70	34	0	0.0	0.90
Total	188	17	24	14.0	603	121	4	0.8	0.92
Ottawa									
French	3	0	1	33.3	73	19	1	1.9	0.87
English	22	2	5	25.0	149	24	0	0.0	--
Other	1	0	0	0.0	18	6	0	0.0	1.0
Multi-ethnic/Other	2	0	1	50.0	2	1	0	0.0	1.0
Total excluding unknown	28	2	7	26.9	242	50	1	0.5	0.89
Unknown	8	4	0	0.0	26	11	0	0.0	1.0
Total	36	6	7	23.3	268	61	1	0.5	0.91
Both sites									
French	18	0	3	16.7	115	25	1	1.1	0.90
English	140	8	20	15.2	552	89	4	0.9	1.0
Other	24	1	4	17.4	86	19	0	0.0	0.76
Multi-ethnic/Other	11	0	1	9.1	22	4	0	0.0	1.0
Total excluding unknown	193	9	28	15.2	775	137	5	0.8	0.92
Unknown	31	14	3	17.6	96	45	0	0.0	0.94
Total	224	23	31	15.4	871	182	5	0.7	0.92

1. Including self-reported HIV negative, never tested and unknown HIV testing result
2. Including unknown latest HIV testing result, never tested and unknown HIV testing history

Table 16 Number of casual male sex partners during the previous six months among Lambda participants by first language spoken

	French		English		Other		Multi-languages		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Toronto												
No casual partners	26	22.6	238	23.7	28	13.7	9	16.1	24	18.0	325	21.5
Only one	14	12.2	112	11.2	24	11.8	6	10.7	17	12.8	173	11.4
Two to five	33	28.7	298	29.7	69	33.8	19	33.9	43	32.3	462	30.6
Six to nine	14	12.2	100	10.0	23	11.3	8	14.3	15	11.3	160	10.6
10 to 29	21	18.3	152	15.2	38	18.6	7	12.5	18	13.5	236	15.6
>=30	5	4.3	96	9.6	17	8.3	6	10.7	13	9.8	137	9.1
Casual partners reported, but number unknown	2	1.7	7	0.7	5	2.5	1	1.8	3	2.3	18	1.2
Total excluding unknown	115	100.0	1,003	100.0	204	100.0	56	100.0	133	100.0	1,511	100.0
Unknown	33		246		44		13		85		421	
Total	148		1,249		248		69		218		1,932	
Ottawa												
No casual partners	27	26.7	69	28.3	8	30.8	4	44.4	11	34.4	119	28.9
Only one	11	10.9	37	15.2	2	7.7	0	0.0	7	21.9	57	13.8
Two to five	37	36.6	64	26.2	10	38.5	4	44.4	7	21.9	122	29.6
Six to nine	7	6.9	28	11.5	3	11.5	0	0.0	2	6.3	40	9.7
10 to 29	17	16.8	33	13.5	2	7.7	0	0.0	4	12.5	56	13.6
>=30	2	2.0	9	3.7	1	3.8	1	11.1	1	3.1	14	3.4
Casual partners reported, but number unknown	0	0.0	4	1.6	0	0.0	0	0.0	0	0.0	4	1.0
Total excluding unknown	101	100.0	244	100.0	26	100.0	9	100.0	32	100.0	412	100.0
Unknown	21		42		8		2		21		94	
Total	122		286		34		11		53		506	
Both sites												
No casual partners	53	24.5	307	24.6	36	15.7	13	20.0	35	21.2	444	23.1
Only one	25	11.6	149	11.9	26	11.3	6	9.2	24	14.5	230	12.0
Two to five	70	32.4	362	29.0	79	34.3	23	35.4	50	30.3	584	30.4
Six to nine	21	9.7	128	10.3	26	11.3	8	12.3	17	10.3	200	10.4
10 to 29	38	17.6	185	14.8	40	17.4	7	10.8	22	13.3	292	15.2
>=30	7	3.2	105	8.4	18	7.8	7	10.8	14	8.5	151	7.9
Casual partners reported, but number unknown	2	0.9	11	0.9	5	2.2	1	1.5	3	1.8	22	1.1
Total excluding unknown	216	100.0	1,247	100.0	230	100.0	65	100.0	165	100.0	1,923	100.0
Unknown	54		288		52		15		106		515	
Total	270		1,535		282		80		271		2,438	

Table 17 Number of regular male sex partners during the previous six months among Lambda participants by first language spoken

	French		English		Other		Multi-languages		Unknown		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Toronto												
None	10	8.6	173	17.4	36	17.7	7	13.0	26	19.1	252	16.7
Only one	63	54.3	453	45.5	79	38.9	21	38.9	62	45.6	678	45.0
2 to 5	34	29.3	271	27.2	60	29.6	20	37.0	30	22.1	415	27.6
6 or more	7	6.0	76	7.6	21	10.3	6	11.1	15	11.0	125	8.3
Regular partner reported but number unknown	2	1.7	23	2.3	7	3.4	0	0.0	3	2.2	35	2.3
Total excluding unknown	116	100.0	996	100.0	203	100.0	54	100.0	136	100.0	1,505	100.0
Unknown	32		253		45		15		82		427	
Total	148		1,249		248		69		218		1,932	
Ottawa												
None	18	18.4	33	13.5	5	18.5	2	22.2	5	15.2	63	15.3
Only one	52	53.1	121	49.4	17	63.0	3	33.3	20	60.6	213	51.7
2 to 5	23	23.5	70	28.6	4	14.8	3	33.3	6	18.2	106	25.7
6 or more	4	4.1	15	6.1	1	3.7	1	11.1	1	3.0	22	5.3
Regular partner reported but number unknown	1	1.0	6	2.4	0	0.0	0	0.0	1	3.0	8	1.9
Total excluding unknown	98	100.0	245	100.0	27	100.0	9	100.0	33	100.0	412	100.0
Unknown	24		41		7		2		20		94	
Total	122		286		34		11		53		506	
Both sites												
None	28	13.1	206	16.6	41	17.8	9	14.3	31	18.3	315	16.4
Only one	115	53.7	574	46.3	96	41.7	24	38.1	82	48.5	891	46.5
2 to 5	57	26.6	341	27.5	64	27.8	23	36.5	36	21.3	521	27.2
6 or more	11	5.1	91	7.3	22	9.6	7	11.1	16	9.5	147	7.7
Regular partner reported but number unknown	3	1.4	29	2.3	7	3.0	0	0.0	4	2.4	43	2.2
Total excluding unknown	214	100.0	1,241	100.0	230	100.0	63	100.0	169	100.0	1,917	100.0
Unknown	56		294		52		17		102		521	
Total	270		1,535		282		80		271		2,438	

Table 18 Delayed condom application during receptive anal sex with HIV-positive or unknown HIV status partner among participants with self-reported HIV-negative or unknown HIV status by first language spoken

	Total	Unknown	% of delayed condom application*
Toronto			
French	117	12	8.6
English	997	111	7.7
Other	194	22	10.5
Multiple languages	48	5	11.6
Total excluding unknown	1,356	150	8.3
Unknown	136	16	5.8
Total	1,492	166	8.1
Ottawa			
French	106	11	8.4
English	239	23	10.2
Other	30	2	14.3
Multiple languages	7	2	--
Total excluding unknown	382	38	9.9
Unknown	35	4	9.7
Total	417	42	9.9
Both sites			
French	223	23	8.5
English	1,236	134	8.2
Other	224	24	11.0
Multiple languages	55	7	10.4
Total excluding unknown	1,738	188	8.6
Unknown	171	20	6.6
Total	1,909	208	8.5

* Proportion among those with known information on delayed condom application during receptive anal sex with HIV-positive or unknown status partner

-- Insufficient numbers

Table 19 Unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner among participants with self-reported HIV-negative or unknown HIV status by first language spoken

	Total	Unknown	% of unprotected receptive anal sex*
Toronto			
French	117	33	17.9
English	997	248	17.4
Other	194	52	30.3
Multiple languages	48	17	19.4
Total excluding unknown	1,356	350	19.3
Unknown	136	45	15.4
Total	1,492	395	19.0
Ottawa			
French	35	9	26.9
English	239	47	15.6
Other	106	25	17.3
Multiple languages	7	2	--
Total excluding unknown	387	83	17.1
Unknown	30	8	9.1
Total	417	91	16.6
Both sites			
French	152	42	20.0
English	1,236	295	17.0
Other	300	77	25.6
Multiple languages	55	19	19.4
Total excluding unknown	1,743	433	18.8
Unknown	166	53	14.2
Total	1,909	486	18.4

* Proportion among those with known information on unprotected receptive anal sex with a casual partner or HIV-positive regular partner or unknown HIV status regular partner

-- Insufficient numbers

Table 20 Injection drug use reported among Lambda participants by first language spoken

A. Toronto

	French	English	Other	Multi-languages	Unknown	Total
Total number	148	1,249	248	69	218	1,932
Unknown	3	29	10	3	48	93
	%*	%	%	%	%	%
Ever injected any drug						
Never	92.4	89.1	89.1	90.9	90.6	89.6
Yes, but not in past 6 months	6.9	6.8	5.5	3.0	7.6	6.6
Yes, in past 6 months	0.7	4.1	5.5	6.1	1.8	3.9
Ever injected any drug (excluding steroids)						
Never	93.8	92.0	95.0	92.4	95.3	92.9
Yes, but not in past 6 months	5.5	5.5	2.9	3.0	2.9	4.8
Yes, in past 6 months	0.7	2.5	2.1	4.5	1.8	2.3
Injected crystal meth						
Never	98.6	97.1	97.5	98.5	98.8	97.5
Yes, but not in past 6 months	1.4	1.8	1.3	0.0	0.6	1.5
Yes, in past 6 months	0.0	1.1	1.3	1.5	0.6	1.0
Injected steroids						
Never	97.2	96.1	93.7	97.0	94.1	95.8
Yes, but not in past 6 months	2.8	1.9	2.5	1.5	5.3	2.3
Yes, in past 6 months	0.0	2.0	3.8	1.5	0.6	1.9
Injected cocaine						
Never	95.9	94.0	95.8	93.9	96.5	94.6
Yes, but not in past 6 months	3.4	4.4	2.9	1.5	2.9	3.9
Yes, in past 6 months	0.7	1.6	1.3	4.5	0.6	1.5
Injected heroin						
Never	97.9	97.5	99.2	98.5	98.8	97.9
Yes, but not in past 6 months	2.1	2.1	0.4	1.5	1.2	1.8
Yes, in past 6 months	0.0	0.3	0.4	0.0	0.0	0.3
Injected other drugs						
Never	98.6	98.9	99.6	98.5	98.8	99.0
Yes, but not in past 6 months	1.4	0.8	0.0	0.0	0.6	0.7
Yes, in past 6 months	0.0	0.3	0.42	1.5	0.6	0.3

* Proportion among those with known injection drug use

B. Ottawa

	French	English	Other	Multi-languages	Unknown	Total
Total number	122	286	34	11	53	506
Unknown	3	5	2	1	14	25
	%*	%	%	%	%	%
Ever injected any drug						
Never	95.8	91.5	96.9	80.0	94.9	92.9
Yes, but not in past 6 months	1.7	6.4	0.0	10.0	2.6	4.6
Yes, in past 6 months	2.5	2.1	3.1	10.0	2.6	2.5
Ever injected any drug (excluding steroids)						
Never	97.5	93.2	96.9	90.0	94.9	94.6
Yes, but not in past 6 months	0.8	4.6	0.0	0.0	2.6	3.1
Yes, in past 6 months	1.7	2.1	3.1	10.0	2.6	2.3
Injected crystal meth						
Never	100.0	97.5	96.9	100.0	97.4	98.1
Yes, but not in past 6 months	0.0	2.1	3.1	0.0	2.6	1.7
Yes, in past 6 months	0.0	0.4	0.0	0.0	0.0	0.2
Injected steroids						
Never	98.3	97.2	96.9	90.0	100.0	97.5
Yes, but not in past 6 months	0.8	2.8	0.0	10.0	0.0	2.1
Yes, in past 6 months	0.8	0.0	3.1	0.0	0.0	0.4
Injected cocaine						
Never	98.3	94.7	96.9	90.0	94.9	95.6
Yes, but not in past 6 months	0.8	3.9	0.0	0.0	2.6	2.7
Yes, in past 6 months	0.8	1.4	3.1	10.0	2.6	1.7
Injected heroin						
Never	99.2	98.2	100.0	100.0	97.4	98.5
Yes, but not in past 6 months	0.0	1.8	0.0	0.0	2.6	1.2
Yes, in past 6 months	0.8	0.0	0.0	0.0	0.0	0.2
Injected other drugs						
Never	100.0	99.3	100.0	100.0	100.0	99.6
Yes, but not in past 6 months	0.0	0.0	0.0	0.0	0.0	0.0
Yes, in past 6 months	0.0	0.7	0.0	0.0	0.0	0.4

* Proportion among those with known injection drug use

C. Both sites

	French	English	Other	Multi-languages	Unknown	Total
Total number	270	1,535	282	80	271	2,438
Unknown	6	34	12	4	62	118
	%*	%	%	%	%	%
Ever injected any drug						
Never	93.9	89.5	90.0	89.5	91.4	90.3
Yes, but not in past 6 months	4.5	6.7	4.8	3.9	6.7	6.2
Yes, in past 6 months	1.5	3.7	5.2	6.6	1.9	3.6
Ever injected any drug (excluding steroids)						
Never	95.5	92.3	95.2	92.1	95.2	93.2
Yes, but not in past 6 months	3.4	5.3	2.6	2.6	2.9	4.5
Yes, in past 6 months	1.1	2.4	2.2	5.3	1.9	2.3
Injected crystal meth						
Never	99.2	97.2	97.4	98.7	98.6	97.6
Yes, but not in past 6 months	0.8	1.9	1.5	0.0	1.0	1.6
Yes, in past 6 months	0.0	0.9	1.1	1.3	0.5	0.8
Injected steroids						
Never	97.7	96.3	94.1	96.1	95.2	96.1
Yes, but not in past 6 months	1.9	2.1	2.2	2.6	4.3	2.3
Yes, in past 6 months	0.4	1.6	3.7	1.3	0.5	1.6
Injected cocaine						
Never	97.0	94.1	95.9	93.4	96.2	94.8
Yes, but not in past 6 months	2.3	4.3	2.6	1.3	2.9	3.7
Yes, in past 6 months	0.8	1.5	1.5	5.3	1.0	1.5
Injected heroin						
Never	98.5	97.7	99.3	98.7	98.6	98.1
Yes, but not in past 6 months	1.1	2.1	0.4	1.3	1.4	1.7
Yes, in past 6 months	0.4	0.3	0.4	0.0	0.0	0.3
Injected other drugs						
Never	99.2	99.0	99.6	98.7	99.0	99.1
Yes, but not in past 6 months	0.8	0.7	0.0	0.0	0.5	0.6
Yes, in past 6 months	0.0	0.3	0.4	1.3	0.5	0.3

* Proportion among those with known injection drug use

Table 21 HIV prevalence among Lambda participants by reported history of injection drug use and first language spoken

A. Toronto

Toronto	French		English		Other		Multi-languages		Unknown		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Ever injected any drug												
Never	52	23.1	424	16.7	77	20.8	24	29.2	50	22.0	627	18.7
Ever	5	60.0	85	51.8	12	50.0	4	50.0	6	50.0	112	51.8
Ever injected any drug (excluding steroids)												
Never	52	23.1	447	19.0	86	22.1	25	32.0	53	20.8	663	20.4
Ever	5	60.0	62	48.4	3	100.0	3	33.3	3	100.0	76	52.6
Injected crystal meth												
Never	56	25.0	484	20.9	88	23.9	27	29.6	54	22.2	709	22.0
Ever	1	100.0	25	56.0	1	100.0	1	100.0	2	100.0	30	63.3
Injected steroids												
Never	56	25.0	478	20.5	80	23.8	26	30.8	52	25.0	692	22.0
Ever	1	100.0	31	54.8	9	33.3	2	50.0	4	25.0	47	48.9
Injected cocaine												
Never	53	22.6	461	20.4	86	22.1	25	32.0	54	22.2	679	21.4
Ever	4	75.0	48	43.8	3	100.0	3	33.3	2	100.0	60	50.0
Injected heroin												
Never	56	26.8	486	22.4	88	23.9	28	32.1	54	22.2	712	23.3
Ever	1	0.0	23	26.1	1	100.0	0	--	2	100.0	27	33.3
Injected other drugs												
Never	55	23.6	499	22.6	89	24.7	27	29.6	55	23.6	725	23.3
Ever	2	100.0	10	20.0	0	--	1	100.0	1	100.0	14	42.9

-- Insufficient number

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

B. Ottawa

	French		English		Other		Multi-languages		Unknown		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Ever injected any drug												
Never	71	2.8	152	9.9	17	0.0	1	0.0	19	10.5	260	7.3
Ever	3	33.3	16	37.5	1	100.0	2	100.0	2	50.0	24	45.8
Ever injected any drug (excluding steroids)												
Never	72	2.8	156	10.9	17	0.0	2	50.0	19	10.5	266	8.3
Ever	2	50.0	12	33.3	1	100.0	1	100.0	2	50.0	18	44.4
Injected crystal meth												
Never	74	4.1	163	11.7	17	0.0	3	66.7	20	10.0	277	9.4
Ever	0	--	5	40.0	1	100.0	0	--	1	100.0	7	57.1
Injected steroids												
Never	73	4.1	162	10.5	17	0.0	2	50.0	21	14.3	275	8.7
Ever	1	0.0	6	66.7	1	100.0	1	100.0	0	--	9	66.7
Injected cocaine												
Never	72	2.8	159	10.7	17	0.0	2	50.0	19	10.5	269	8.2
Ever	2	50.0	9	44.4	1	100.0	1	100.0	2	50.0	15	53.3
Injected heroin												
Never	74	4.1	165	10.9	18	5.6	3	66.7	20	10.0	280	9.3
Ever	0	--	3	100.0	0	--	0	--	1	100.0	4	100.0
Injected other drugs												
Never	74	4.1	166	12.7	18	5.6	3	66.7	21	14.3	282	10.6
Ever	0	--	2	0.0	0	--	0	--	0	--	2	0.0

-- Insufficient number

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.

C. Both sites

	French		English		Other		Multi-languages		Unknown		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Ever injected any drug												
Never	123	11.4	576	14.9	94	17.0	25	28.0	69	18.8	887	15.3
Ever	8	50.0	101	49.5	13	53.8	6	66.7	8	50.0	136	50.7
Ever injected any drug (excluding steroids)												
Never	124	11.3	603	16.9	103	18.4	27	33.3	72	18.1	929	16.9
Ever	7	57.1	74	45.9	4	100.0	4	50.0	5	80.0	94	51.1
Injected crystal meth												
Never	130	13.1	647	18.5	105	20.0	30	33.3	74	18.9	986	18.5
Ever	1	100.0	30	53.3	2	100.0	1	100.0	3	100.0	37	62.2
Injected steroids												
Never	129	13.2	640	18.0	97	19.6	28	32.1	73	21.9	967	18.2
Ever	2	50.0	37	56.8	10	40.0	3	66.7	4	25.0	56	51.8
Injected cocaine												
Never	125	11.2	620	17.9	103	18.4	27	33.3	73	19.2	948	17.6
Ever	6	66.7	57	43.9	4	100.0	4	50.0	4	75.0	75	50.7
Injected heroin												
Never	130	13.8	651	19.5	106	20.8	31	35.5	74	18.9	992	19.4
Ever	1	0.0	26	34.6	1	100.0	0	--	3	100.0	31	41.9
Injected other drugs												
Never	129	12.4	665	20.2	107	21.5	30	33.3	76	21.1	1,007	19.8
Ever	2	100.0	12	16.7	0	--	1	100.0	1	100.0	16	37.5

-- Insufficient number

Note: HIV prevalence should be interpreted cautiously, due to relative small sample size in some groups.