

# INFECTIOUS DISEASES SURVEILLANCE AMONG INJECTION DRUG USERS

EPIDEMIOLOGY OF HIV FROM 1995 TO 2004 EPIDEMIOLOGY OF HCV FROM 2003 TO 2004

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# INFECTIOUS DISEASES SURVEILLANCE AMONG INJECTION DRUG USERS

EPIDEMIOLOGY OF HIV FROM 1995 TO 2004 EPIDEMIOLOGY OF HCV FROM 2003 TO 2004

DIRECTION RISQUES BIOLOGIQUES, ENVIRONNEMENTAUX ET OCCUPATIONNELS

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#### **FOREWORD**

The SurvUDI network was put in place in 1995 in the province of Quebec. It does epidemiological surveillance of human immunodeficiency virus and hepatitis C infections among injection drug users.

Recruitment is based in a large number of settings. Most are met in centers providing access to sterile injection equipment. Others are recruited for instance in detention centers, detox and rehab clinics.

Individuals who report having injected in the preceding six months are eligible if judged able to give an informed consent. A questionnaire is then administered and two oral fluid samples are taken to be tested for HIV (since 1995) and HVC (since 2003). The codification scheme allows for the detection of multiple visits by repeaters to the study. (Interested readers will find more details in: Continuing HIV Transmission Among Injection Drug Users in Eastern Central Canada: The SurvUDI Study, 1995 to 2000. Hankins C, Alary M, Parent R, Blanchette C, Claessens C and The SurvUDI Working Group. JAIDS 30: 514–521)

Three principal investigators are in charge of this network. They are Dr. Michel Alary, from the Unité de recherche en santé des populations, Centre hospitalier *affilié* universitaire de Québec, Dr. Élise Roy, from Sherbrooke University, Addiction programme, research, Medicine and health sciences faculty, Longueuil campus, and Dr. Carole Morissette from Montreal's Public Health Department. Each also works at Quebec's National Public Health Institute.

Mr. Raymond Parent is the coordinator of the study.

SurvUDI activities are financed by the Public Health Agency of Canada (Centre for Infectious Disease Control and Prevention). Additional funding is also provided by Quebec's Ministry of Health and Social services. A sub-analysis on HCV infections has been funded by Réseau sida et maladies infectieuses, Fonds de la recherche en santé du Québec (FRSQ).

In 2002, Health Canada authorities extended this type of surveillance to other Canadian provinces creating the I-Track network. SurvUDI is now a part of this study.

\* This document will be update each year and will be available on the Institut Web site.

### NOTE TO READERS

A number of recruitment sites and several questions were added to the study along the way. This is why sample sizes are smaller for certain documented behaviours. Most of the additions to the questionnaire were made in 2003 when the SurvUDI Study joined the Canadian I-Track network. The tables that present these new variables are those whose titles refer to the 2003-04 period.

## HIGHLIGHTS1

As of June 30, 2004, 14,773 questionnaires had been administered to 8,964 individuals (Table 1). Three-quarters of participants are men (6,542/8,964) with an average age of 33. The average age of female participants is 28 (Table 1).

Educational levels are low, with only one in four (269/1,105) participants having completed high school (Table 3; 2003-04 data).

Cocaine is the injection drug most often used (88% of the 8,939 respondents had used cocaine), followed by heroin at 36% (Table 5). Cocaine is also the drug most frequently injected by 75% (6,639/8,897) of participants (Table 9).

Injection drug use varies a lot by region (Table 5). While cocaine is the most pervasive drug in all regions (84-98% of respondents in each region), heroin use is particularly widespread in Montreal (53% of 3,994 respondents), as is dilaudid in Quebec City (10% of 2,420 respondents), non-prescription morphine in Ottawa (35% of 1,367 respondents), and PCP in Saguenay-Lac-Saint-Jean (28.5% of 186 respondents).

There are also significant differences in injection drug use by age (Table 7). For example, heroin use was reported by 60% of injection drug users (IDUs) aged 24 or less (1,465/2,461) and by 27% of older IDUs (1,697/6,234).

A majority of the persons recruited also use non-injection drugs (Table 6; 2003-04 data). More than three-quarters of 1,124 respondents reported having used alcohol (83%) and cannabis (76%), while half had smoked crack (57%) and inhaled cocaine (53%).

While alcohol and cannabis use is widespread in all recruitment sites, non-injection drug use varies (Table 6; 2003-04 data). For example, PCP use was reported by only 10% of IDUs recruited in Ottawa (20/210), but by 28% of those recruited in Montreal (156/560).

In terms of non-injection drug use by age (Table 8), PCP, cannabis and amphetamines appear to be more popular among those aged 24 or less, while benzodiazepines are favoured by older users. Cocaine and crack use was comparable in both age groups (Table 8; 2003-04 data).

The injection site used by the largest number of IDUs during the previous six months was their own apartment (55%); the street was the most common injection site for 18% of recruited IDUs (98/559) (Table 15; 2003-04 data).

Levels of behavioural risk are generally higher among urban IDUs, both in terms of drug use (Table 16) and sexual behaviour (Table 20). Urban IDUs are more often long-term users, as well as more regular in their use, and are more inclined to inject drugs with strangers. Men recruited in urban areas are also more likely to report having had sex with other men, while urban women are more likely to report involvement in the sex trade.

However, use of needles and other supplies that have previously been used by others is more common

<sup>1.</sup> Unless otherwise indicated, behaviours refer to the six-month period that preceded the interview.

among semi-urban IDUs. The latter are also more likely to obtain needles and other materials from people they do not know (Table 16).

Condom use by women (Table 18) and men (Table 19) is too infrequent to have a protective effect (be it with regular or casual partners, or with clients in the case of sex-trade workers).

Close to one man in 10 (613/6,522) and one women in two (917/2,114) reported having worked as a prostitute (Table 20).

The prevalence of human immunodeficiency virus (HIV) infection is 15% (1,310/8,899). Among IDUs aged 40 or more, one individual in four is already infected (Table 21).

The prevalence of hepatitis C virus (HCV) infection is 65% (725/1,116). Among IDUs aged 40 or more, four individuals in five are already infected (Table 22; 2003-04 data).

HIV prevalence is highest in Montreal, Ottawa and Hull, at close to 20% (Table 23).

HCV prevalence is 67% (95% CI = 64-70%) in urban areas, and 49% (95% CI = 40-59%) in semi-urban areas (Table 25; 2003-04 data).

HIV prevalence, based on initial participation in the study, remained stable over time throughout the network (Figure 1). It rose slightly in Quebec City and decreased in Ottawa.

The incidence rate of HIV is 3.5 per 100 person-years (PY). It is 4.5 per 100 PY in Ottawa/Hull, 4.3 per 100 PY in Montreal, 2.7 per 100 PY in Quebec City, and 1.8 per 100 PY in semi-urban programs (Table 32).

HIV incidence rates decreased consistently throughout the network until 2001 (Figure 2). Since then, an increase has been observed in Quebec City (since 2002) and Montreal (since 2001). However, observations recorded in 2003 remain to be confirmed, since follow-up data will be added for a number of individuals in the coming months.

Needle sharing remains the primary risk factor for HIV transmission. Cocaine as the most frequently injected drug, injection with strangers, older ages, and recruitment in Montreal are also independently associated with a higher risk of becoming infected (Table 33).

The proportion of those who reported having borrowed needles in the past six months decreased significantly in Montreal and Ottawa. A downward trend can also be observed in Quebec City, although this proportion increased between 2001 and 2003. No decrease was observed in semi-urban recruitment sites, where rates of needle sharing are highest (Figure 3).

The trends observed for risk factors associated with a higher incidence of HIV vary considerably from one recruitment site to the next (figures 7 to 10).

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Table 1 – Description of sample, by recruitment region, SurvUDI/I-Track Study, 1995-2004

Recruitment region	Year implemented	Number of questionnaires administered	Number of women/average (median) age	Number of men/average (median) age
Abitibi-Témiscamingue	1995	199	35/29.2 (31)	126/29.5 (28)
Estrie	1998	509	48/28.9 (28)	273/35.1 (36)
Hull	1997	278	45/35.0 (35)	158/38.5 (39)
Mauricie-Centre-du-Québec	2000	296	48/30.0 (30	153/34.4 (35)
Montérégie	1995	203	33/26.9 (24)	163 33.5 (33)
Montreal	1995	6,390	1,003/25.9 (23)	2,969/32.3 (32)
Ottawa	1996	2,213	306/33.6 (34)	1,058/35.9 (36)
Quebec City	1995	4,455	637/28.3 (27)	1,780/32.7 (32)
Saguenay-Lac Saint-Jean	1995	230	54/24.5 (21)	132/24.7 (21.5)
Network	1995	14,7731	2,125/28.2 (6)	6,542/33.2 (33)

<sup>1: 8,964</sup> different individuals.

Table 2 – Ethnicity, SurvUDI/I-Track Study, 2003-2004

Ethnic group	n/1,099	%
Canadian	1,021	97.2
European	17	1.5
Other	8	0.7
American	6	0.5

<sup>1:</sup> Including 47 Aboriginals.

Table 3 – Education level reached, SurvUDI/I-Track Study, 2003-2004

Education level	n/1,105	%
Secondary <sup>1</sup>	734	66.4
College <sup>2</sup>	207	18.7
University <sup>3</sup>	102	9.2
Primary	62	5.6

<sup>1: 24.3% (269/1,105)</sup> obtained their diploma.

Table 4 – Current place of residence, SurvUDI/I-Track Study, 2003-2004

Place of residence	n/1,111	%
Private residence (apartment/house)	749	67.4
Room (hotel, motel, boarding house)	131	11.8
Street/squat	116	10.4
Institution (shelter, hostel, half-way house, rehabilitation centre, detox centre)	104	9.4
Detention centre	11	1.0

24% (273/1,117) reported that they had been living on the street for the past 6 months. 15.6% (174/1,117) reported having been in a detention centre during the past 6 months, and 17 individuals had resided in a psychiatric institution.

<sup>2: 8.4% (93/1,105)</sup> obtained a degree.

<sup>3: 3.6% (40/1,105)</sup> obtained a degree.

Table 5 – Drugs injected during the previous six months, by recruitment region, SurvUDI/I-Track Study, 1995-2004

	% of IDUs who injected						
Site	$n^1$	Cocaine	Heroin	Speedball <sup>2</sup>	Dilaudid	Non- prescription morphine	PCP
Abitibi-Témiscamingue	161	93.8	23.6	8.7	3.7	1.2	7.5
Estrie	422	90.8	25.1	4.0	3.8	2.8	3.1
Hull	266	97.7	7.5	3.0	0.0	1.5	1.1
Mauricie-Centre-du-Québec	268	92.1	32.5	8.2	7.1	3.4	4.1
Montérégie	197	92.4	35.0	14.2	3.1	2.5	4.6
Montreal	3,994	86.1	52.6	16.5	8.6	4.7	6.1
Ottawa	1,367	87.1	26.1	8.5	9.3	34.9	2.4
Quebec City	2,420	90.1	22.2	1.5	10.4	3.0	6.3
Saguenay-Lac-Saint-Jean	186	83.9	30.7	7.5	8.1	3.8	28.5
Network	8,939	88.2	35.9	9.8	8.5	8.6	5.6

<sup>1:</sup> Number who responded to the question on injection drug use during the past six months.

### Other frequently reported injection drugs:

- crack = 2.2%
- amphetamines = 1.0%
- steroids = 0.5%
- benzodiazepines = 0.4%
- barbiturates = 0.4%
- oxycontin = 0.4%

<sup>2:</sup> Injectable mixture of cocaine and heroin.

Table 6 – Non-injection drug use during the previous six months, by recruitment region, SurvUDI/I-Track Study, 2003-2004

		% of IDUs who used the following other than by injection				ection	
Site	$n^1$	Alcohol	Cannabis	Crack	Cocaine	PCP	Dilaudid
Abitibi-Témiscamingue	5	80.0	80.0	60.0	80.0	60.0	20.0
Estrie	36	94.4	88.9	50.0	80.6	8.3	5.6
Mauricie-Centre-du-Québec	57	86.0	75.4	36.8	63.2	35.1	19.3
Montérégie	5	80.0	80.0	20.0	80.0	0.0	0.0
Montreal	560	83.8	75.2	57.3	46.3	27.9	21.1
Ottawa	210	79.1	78.6	75.7	63.8	9.5	32.9
Quebec City	237	80.2	73.0	45.6	50.2	24.5	21.1
Saguenay-Lac-Saint-Jean	14	100.0	92.9	50.0	92.9	85.7	42.9
Network	1,124	82.7	76.1	56.8	53.2	24.2	22.9

<sup>1:</sup> Number who responded to the question on non-injection drug use during the previous six months.

Other frequently reported non-injection drugs:

- benzodiazepines = 20.8%
- amphetamines = 18.8%
- ecstasy = 16.4%
- heroin = 14.4%

Table 7 – Injection drug use during the previous six months, by age group, SurvUDI/I-Track Study, 1995-2004

Drug (Nb. who have used)	Prop	p-value			
	24 (	or less	25 or	more	
	%	n	%	n	
Cocaine (7,653)	77.9	2,461	92.1	6,234	< 0.001
Crack (194)	1.2	2,453	2.6	6,223	< 0.001
Heroin (3,162)	59.5	2,461	27.2	6,234	< 0.001
Dilaudid (752)	8.5	2,453	8.7	6,223	0.696
Speedball <sup>1</sup> (864)	14.3	2,461	8.2	6,234	< 0.001
Non-prescription methadone (1,759)	5.8	2,453	9.9	6,223	< 0.001
PCP (498)	15.9	2,461	1.7	6,233	< 0.001
More than one drug (5,145)	54.2	2,461	35.5	6,230	< 0.001

<sup>1:</sup> Injectable mixture of cocaine and heroin.

Table 8 – Non-injection drug use during the previous six months, by age, SurvUDI/I-Track Study, 2003-2004

Drug (Nb. who have used)	Proportion of users among those aged		p-value
	% 24 or less n=232	% 25 or more n=884	
Alcohol (922)	86.6	81.6	0.069
Cannabis (846)	82.3	74.1	0.009
Crack/freebase (634)	59.5	56.1	0.356
Cocaine (590)	55.2	52.3	0.429
PCP (267)	59.5	14.6	< 0.001
Dilaudid (254)	22.0	23.0	0.751
Benzodiazepines (231)	14.2	22.4	0.006
Amphetamines (209)	40.1	13.1	< 0.001

Table 9 – Drug most frequently injected during the previous six months, SurvUDI/I-Track Study, 1995-2004

Drug	n/8,897	%
Cocaine	6,639	74.6
Heroin	1,569	17.6
Non-prescription morphine	182	2.1
Dilaudid	159	1.8
PCP	122	1.4
Crack	43	0.5
Speedball <sup>1</sup>	41	0.5
Prescription morphine	22	0.3
Amphetamines	20	0.2
Steroids	16	0.2
(MS/Oxy)contin	13	0.2
Alcohol	9	0.1
Demerol	4	0.1
Other drugs <sup>2</sup>	30	0.4
Unknown	18	0.2

<sup>1:</sup> Injectable mixture of cocaine and heroin.

<sup>2: 8</sup> other products were reported by one or two individuals as the drug they most frequently used.

Table 10 – Heroin as the drug most frequently injected during the previous six months, by age group, SurvUDI/I-Track Study, 1995-2004

Site	% who most frequently injected heroin	% aged 24 or less	% aged 25 or more
	(n)	( <b>n</b> )	(n)
Abitibi-Témiscamingue	6.9	17.7	1.8
	(160)	(51)	(109)
Estrie	11.6	30.6	8.5
	(414)	(66)	(248)
Hull	3.1	0.0	4.4
	(261)	(19)	(158)
Mauricie-Centre-du-Québec	14.6	36.7	7.4
	(268)	(49)	(149)
Montérégie	15.4	31.9	10.1
-	(195)	(47)	(148)
Montreal	29.3	53.1	16.5
	(3,973)	(1,389)	(2,582)
Ottawa	7.1	13.6	6.3
	(1,365)	(147)	(1,215)
Quebec City	10.0	19.4	6.1
	(2,401)	(696)	(1,705)
Saguenay-Lac-Saint-Jean	13.9	16.0	9.8
•	(180)	(119)	(61)
Network	17.6	37.1	10.5
	(8,897)	(2,432)	(6,206)

Table 11 – Non-injection drugs most frequently used during the previous six months, SurvUDI/I-Track Study, 2003-2004

Drug	n/1,086	%
Cannabis	307	28.3
Cocaine and crack/freebase	270	24.9
Alcohol	265	24.9
Prescription methadone	44	4.1
PCP	42	3.9
Benzodiazepines	24	2.2
Dilaudid	18	1.7
Non-prescription methadone	17	1.6
Barbiturates	17	1.6
White heroin	13	1.2
Amphetamines	7	0.6
Ecstasy	4	0.4
Other drugs <sup>1</sup>	7	0.6

<sup>1:</sup> Seven other non-injection drugs were reported as most frequently used.

Table 12 – Drug most frequently injected during the previous month, SurvUDI/I-Track Study, 2003-2004

Drug	n/514	0/0
Cocaine	355	69.1
White heroin	50	9.7
Non-prescription morphine	29	5.6
Dilaudid	21	4.1
Crack	20	3.9
Prescription morphine	18	3.5
Oxycontin	9	1.8
Speedball	5	1.0
Other drugs <sup>1</sup>	7	1.4

<sup>1:</sup> Six other injection drugs were reported by one or two individuals as the drug they most frequently used.

Table 13 – Non-injection drugs most frequently used during the previous month, SurvUDI/I-Track Study, 2003-2004

Drug	n/528	%
Cannabis	150	28.4
Alcohol	122	23.1
Cocaine and crack/freebase	122	23.1
Benzodiazepines	29	5.5
Prescription methadone	28	5.3
Oxycodone	13	2.5
Prescription morphine	12	2.3
Non-prescription morphine	11	2.1
PCP	10	1.9
Tylenol with codeine	10	1.9
Dilaudid	9	1.7
Other drugs	67	12.7

Table 14 – Injection sites used during the previous six months, SurvUDI/I-Track Study, 2003-2004

Injected drugs in:	n/559	%
Own apartment	384	68.7
Street	248	44.4
Friend's home	247	44.2
Hotel/motel	145	25.9
Room/rooming house	82	14.7
Public washrooms	56	10.0
Home of a relative	41	8.0
Squat	37	6.6
Shelter, hostel	33	5.9
Other <sup>1</sup>	45	8.0

<sup>1:</sup> For example: detention centre (14), rehab clinic (5), psychiatric institution (3), half-way house (4), automobile (4).

Table 15 – Injection site most frequently reported during the previous six months, SurvUDI/I-Track Study, 2003-2004

Most frequently injected drugs in:	n/559	%
Own apartment	307	54.9
Street	98	17.5
Home of a friend	71	12.7
Own home	15	2.7
Rooming house	15	2.7
Public washrooms	15	2.7
Hotel/motel	11	2.0
Shelter/hostel	7	0.9
Detention centre	5	0.9
Automobile	4	0.7
Other <sup>1</sup>	11	2.0

<sup>1:</sup> Six other injection sites were reported by one or two individuals as the places they most frequently used.

Table 16 – Comparison of injection behaviours during the previous six months, in IDUs recruited in urban and semi-urban areas, SurvUDI/I-Track Study, 1995-2004

Behaviour <sup>1</sup>	% urban IDUs (n)	% semi-urban IDUs²(n)	p-value
Injection partners:			
- Reg. sex. part./close friends/family	43.9 (7,601)	46.1 (1,017)	
- Strangers	39.1 (7,601)	32.4 (1,017)	< 0.001
- Alone	16.9 (7,601)	21.5 (1,017)	$(2df)^3$
Have used injection drugs for more than 5 years	60.6 (7,613)	54.5 (687)	< 0.001
Have lent needles	29.6 (7,891)	38.5 (1,037)	< 0.001
Have used injection drugs at least once a week	64.3 (7,784)	34.9 (1,030)	< 0.001
Have borrowed needles <sup>4</sup>	35.2 (7,851)	44.2 (1,021)	< 0.001
Borrowed needles primarily from strangers (out of 3,090 needle borrowers who responded)	24.7 (2.657)	21.2 (422)	0.004
5,090 ficedic boffowers who responded)	24.7 (2,657)	31.2 (433)	
Borrowed other injection material (e.g. filters) <sup>5</sup>	40.5 (4,783)	45.6 (899)	0.004
Borrowed other injection material primarily from			
strangers (out of 2,984 materials borrowers who responded)	22.9 (2,501)	33.2 (383)	< 0.001
Smoked crack or freebase	54.2 (7,839)	51.5 (1,037)	0.102
Injected PCP	5.3 (7,911)	8.5 (1,039)	0.001
Drug most frequently injected:			
- Cocaine	73.5 (7,821)	83.0 (1,099)	
- Heroin	18.5 (7,821)	10.9 (1,099)	< 0.001
- Other	8.0 (7,821)	6.0 (1,099)	$(2df)^3$

<sup>1:</sup> Behaviour during the six-month period that preceded the interview.

<sup>2:</sup> Semi-urban IDUs: Abitibi-Témiscamingue, Mauricie-Centre-du-Québec, Montérégie (with the exception of those from Montreal's immediate south shore or those who indicated that they reside in Montreal), Saguenay-Lac-Saint-Jean and Estrie.

<sup>3:</sup> df: Degree of freedom.

<sup>4:</sup> Among the 1,136 IDUs who had borrowed needles during the previous six months and who answered the question, 61% (698) indicated having borrowed only one or two needles out of every 10, while 27% (305) indicated borrowing 3 to 5 needles out of 10, and 12% (133) stated 6 or more out of 10.

<sup>5:</sup> Among the 1,397 IDUs who had borrowed materials other than needles during the previous six months and who answered the question, 47% (650) indicated that they had borrowed such supplies once or twice out of every 10 uses, while 27% (377) indicated borrowing 3 to 5 times out of 10, 26% (370) stated 6 or more times, and 16% (218) indicated 10/10.

Table 17 – Borrowing and lending of other injection material during the previous six months, SurvUDI/I-Track Study, 2003-2004

	%	n/N
Borrowed injection material		
Water	30.8	502/1,892
Filter	16.8	316/1,887
Containers	29.6	558/1,887
Lent injection material		
Water	23.0	129/560
Filter	15.9	89/560
Containers	23.5	126/561

61% (654/1,075) of IDUs who reported smoking drugs during the previous six months also reported that they had borrowed supplies to do so.

Table 18 – Condom use during the previous six months, in women, by type of male sexual partner, SurvUDI/I-Track Study, 1995-2004

Frequency of condom use by women	Regular partners n=1,349 <sup>1</sup>	Casual partners n=789 <sup>1</sup>	Clients n=792 <sup>1</sup>
Always	205 15.2%	332 42.1%	512 64.7%
Sometimes	453	287	221
	33.6%	36.4%	27.9%
Never	691 51.2%	170 21.6%	59 7.5%

<sup>1:</sup> Number of women who indicated having this type of male partner. The question regarding the sex of partners was added during the second year of surveillance

45.4% of women (917/2,114) reported having worked in the sex trade (exchange of money, drugs or other goods and services) during the previous six months.

55% of women (240/563) reported having used a condom the last time they had sexual intercourse.

60.4% of women (340/563) reported having had sexual relations during the previous month.

Table 19 – Condom use during the previous six months, in men, by type and sex of sexual partners SurvUDI/I-Track Study, 1996-2004

Frequency of condom use by men		partners 2,966) <sup>1</sup>			Clients (n=539) <sup>1</sup>		
	$\mathbf{M}_{\mathbf{n}=280^2}$	F n=2,753 <sup>2</sup>	$\mathbf{M}_{\mathbf{n}=394^2}$	F n=2,644 <sup>2</sup>	M n=379 <sup>2</sup>	F n=199 <sup>2</sup>	
Always	74	579	107	1,028	141	84	
	26.4%	21.0%	27.2%	38.9%	37.2%	42.2%	
Sometimes	73	867	107	898	97	54	
	26.1%	31.5%	27.2%	34.0%	25.6%	27.1%	
Never	133	1,307	180	718	141	61	
	47.5%	47.5%	45.7%	27.2%	37.2%	30.7%	

<sup>1:</sup> Number of men who indicated having this type of partner and who answered the question concerning the sex of partners, which was added during the second year of observation.

9.4% of men (613/6,522) reported having worked in the sex trade (exchange of money, drugs or other goods and services) during the previous six months.

14.0% of men (917/6,534) reported having had male sexual partners during the previous six months.

<sup>2:</sup> Number of men who indicated having this type of male or female partner. The question relating to the sex of sexual partners was added during the second year of observation.

Table 20 – Comparison of sexual behaviours during the previous six months among IDUs recruited in urban and semi-urban areas, SurvUDI/I-Track Study, 1996-2004

Behaviours	% Urban IDUs	% Semi-urban IDUs <sup>1</sup>	p-value
	n=7,921	n=1,043	
Among women	n=1,938	n=176	
Prostitution <sup>2</sup>	44.3	33.0	0.004
Nb. of male sexual partners <sup>3</sup>	n=1,944	n=180	
- 0	6.2	5.0	
- 1	25.9	28.3	
- 2-5	26.4	38.9	< 0.001
- ≥6	41.5	27.8	$(3df)^5$
Among men	n=5,845	n=677	
Prostitution	9.3	9.9	0.639
Nb. of male sexual partners	n=5,854	n=676	
- 0	85.6	90.1	
- 1	4.4	3.9	
- 2 – 5	4.8	2.8	0.009
<b>-</b> ≥6	5.2	3.3	$(3df)^5$
Nb. of female sexual partners	n=5,847	n=669	
- 0	26.3	19.3	
- 1	29.5	30.8	
- 2-5	31.6	38.1	0.003
- ≥6	12.7	11.8	$(3df)^4$

<sup>1:</sup> Semi-urban IDUs are in Abitibi-Témiscamingue, Mauricie-Centre-du-Québec, Montérégie (with the exception of those from Montreal's immediate south shore and those who indicated that they resided in Montreal), Saguenay-Lac-Saint-Jean and Estrie.

Of the 603 men who reported working in the sex trade during the previous six months, 337 (55.9%) reported having had fewer than six sexual partners during this period.

Of the 914 women who reported working in the sex trade during the previous six months, 173 (8.2%) reported having had fewer than six sexual partners during this period.

Of the 5,905 men who did not report working in the sex trade during the previous six months, 60 (1.0%) reported having had six or more partners during this period.

Of the 1,190 women who did not report working in the sex trade during the previous six months, 113 (9.5%) reported having had six or more partners during this period.

<sup>2:</sup> Exchange of money, drugs or other goods and services.

<sup>3:</sup> Sexual partners include regular and casual partners, as well as clients in the case of sex-trade workers.

<sup>4:</sup> Degree of freedom.

Table 21 – HIV prevalence, by age and sex, SurvUDI/I-Track Study, 1995-2004

Age/Sex	% HIV pos. <sup>1</sup> N						
	We	omen	M	en	Sex not known	To	otal
Age not known	11 (	3 pos.)	22 (5	pos.)	229 (30 pos.)	262 (3	8 pos.)
<20	0.5	441	0.2	491	1 (0 pos.)	0.3	933
20-24	4.6	481	4.8	1,030	6 (0 pos.)	4.7	1,517
25-29	10.7	310	9.1	976	5 (1 pos.)	9.6	1,291
30-34	19.9	302	18.8	1,029	7 (1 pos.)	19.0	1,338
35-39	21.9	297	22.1	1,157	5 (1 pos.)	22.1	1,459
≥40	20.0	275	24.2	1,815	9 (4 pos.)	23.7	2,099
Total	11.3	2,117	15.8	6,520	262 (38 pos.)	$14.7^{2}$	8,899

<sup>1:</sup> HIV test results (on oral fluid samples) are not known for 14 women, 44 men, and 2 individuals whose sex is also not known.

The significant difference between the HIV prevalence rates of men and women is due to the fact that male recruits were older than their female counterparts.

Table 22 – HCV prevalence, by age and sex, SurvUDI/I-Track Study, 2003-2004

Age/Sex	% HCV pos. <sup>1</sup> N						
	Wo	men	M	en	Sex not known	To	otal
Age not known	1 (0	pos.)	(	0	0	1 (0	pos.)
<20	11.8	34	12.5	16	1 (0 pos.)	11.8	51
20-24	35.2	54	49.6	127	0	45.3	181
25-29	68.2	44	45.0	131	2 (2 pos.)	51.4	177
30-34	81.6	38	70.0	110	4 (2 pos.)	72.4	152
35-39	74.3	35	77.7	139	2 (2 pos.)	72.3	176
≥40	75.4	65	80.0	310	3 (3 pos.)	79.4	378
Total	58.7	271	66.9	833	12 (9 pos.)	$65.0^{2}$	1,116

<sup>1:</sup> HIV test results (on oral fluid samples) known in all cases.

The significant difference between the HIV prevalence rates of men and women is due to the fact that male recruits were older than their female counterparts.

<sup>2: 95%</sup> CI: 13.9-15.5.

<sup>2: 95%</sup> CI: 62.1-67.8.

Table 23 – HIV prevalence and adjusted prevalence, by recruitment region, SurvUDI/I-Track Study, 1995-2004

Site	n	% HIV pos.	95% CI <sup>1</sup>	% HIV pos. adjusted <sup>2</sup>
Abitibi-Témiscamingue	159	5.7	2.6/10.5	5.4
Estrie	421	8.8	6.3/11.9	7.1
Hull	266	19.9	15.3/25.2	13.1
Mauricie-Centre-du-Québec	270	5.2	2.9/8.6	4.6
Montérégie	192	10.4	6.5/15.6	9.3
Montreal	3,957	17.5	16.3/18.3	17.5
Ottawa	1,357	18.5	16.5/20.7	13.8
Quebec City	2,412	10.8	9.6/12.1	10.0
Saguenay-Lac-Saint-Jean	184	2.2	0.6/5.5	4.0

<sup>1:</sup> Confidence interval on unadjusted prevalence.

The crude prevalence rates for urban programs is 15.7% (95% CI: 14.9-16.5) and that of urban programs is 6.2% (95% CI: 4.9-7.8).

Table 24 – HIV prevalence by region of residence, SurvUDI/I-Track Study, 1995-2004

Region of residence <sup>1</sup>	n	% HIV pos.	95% CI
Abitibi-Témiscamingue	171	6.4	3.3/11.2
Chaudière-Appalaches	80	7.5	2.8/15.6
Estrie	324	8.6	5.8/12.2
Hull	285	19.0	14.6/24.0
Lanaudière	74	13.5	6.7/23.5
Laurentides	86	5.8	1.9/13.1
Laval	87	9.2	4.1/17.3
Mauricie-Centre-du-Québec	351	6.0	3.7/9.0
Montérégie	400	9.8	7.0/13.1
Montreal	3,054	19.1	17.7/20.5
Ottawa	1,344	18.7	16.6/20.9
Quebec City	2,312	10.9	9.7/12.2
Saguenay-Lac-Saint-Jean	202	2.5	0.1/5.7

<sup>1:</sup> Data reported only for regions of residence mentioned by at least 30 participants.

<sup>2:</sup> Prevalence was adjusted for each program, based on the age/sex structure of participants recruited in all Montreal collaboration sites. Only IDUs whose age and sex are known were included in the table.

Table 25 – HCV prevalence, by recruitment region, SurvUDI/I-Track Study, 2003-2004

Site <sup>1</sup>	n	% HCV pos.	95% CI
Abitibi-Témiscamingue	5	0.0	0.0/45.7
Estrie	36	50.0	32.9/67.1
Mauricie-Centre-du-Québec	57	54.4	41.5/67.6
Montérégie <sup>2</sup>	5	80.0	28.4/99.5
Montreal	560	66.6	62.5/70.5
Ottawa	209	64.6	58.1/71.0
Quebec City	237	69.6	63.3/75.4
Saguenay-Lac-Saint-Jean	13	30.8	9.1/61.4

<sup>1:</sup> Only visits from repeaters at a same site are deleted here.

HCV prevalence for urban programs is 66.9% (95% CI: 63.9-69.8) and that of semi-urban programs is 49.1% (95% CI: 39.7-58.6).

<sup>2: 36</sup> individuals who indicated that they resided in Montérégie were recruited, primarily in Montreal. 18 of these recruits were found to be HCV positive (50%; 32.9 – 67.1).

Table 26 – Risk factors associated with HIV prevalence, SurvUDI/I-Track Study, 1995-2004

Behaviour during the previous six months (n)		% HIV pos.	p-value
Injected cocaine (8,893)	Yes No	16.2 3.6	<0.0001
Injected heroin (8,893)	Yes No	9.2 17.9	<0.0001
Injected PCP (8,892)	Yes No	4.6 15.3	< 0.0001
Cocaine most frequently injected drug (8,832)	Yes No	17.7 6.0	< 0.0001
Smoked crack (8,855)	Yes No	14.0 15.7	0.0226
Injection history (8,568)	Less than 6 years 6 years or more	5.8 20.7	< 0.0001
Frequency of injection – previous month (8,750) <sup>1</sup>	Occasional user Regular user	13.6 15.7	0.0075
Lent needles (8,863)	Sometimes Never	10.7 16.5	<0.0001
Injection partners (8,729)	Strangers Known persons Alone	17.0 12.3 16.7	<0.0001 (2df) <sup>2</sup>
Borrowed needles from others (8,854)	Sometimes Never	15.2 14.5	0.3301
Needles obtained from whom (8,713)	Strangers Known persons Did not use	22.7 12.9 14.5	<0.0001 (2df) <sup>2</sup>
Borrowed injection material other than needles (7,205)	Sometimes Never	14.1 16.0	0.0215
Injection material other than needles obtained from whom (7,106)	Strangers Known persons Did not use	19.4 12.3 16.0	<0.0001 (2df) <sup>2</sup>
Use of needles and other injection material previously used by others (7,184)	Needles and material Material only Needles only Neither	15.8 11.1 16.7 16.0	0.0006 (3df) <sup>2</sup>

Table 26 – Risk factors associated with HIV prevalence, SurvUDI/I-Track Study, 1995-2004 (cont.)

Behaviour during the previous six month	hs (n)	% HIV pos.	9-value
Men:			
Number of male partners (6,486)	0	15.1	
	1	23.1	
	2 - 5	19.9	0.0002
	6+	19.1	$(3df)^2$
Number of female partners (6,472)	0	29.0	
· · · · · · · · · · · · · · · · · · ·	1	13.0	
	2 - 5	10.4	< 0.0001
	6+	9.6	$(3df)^2$
Sex with other men (6,493)	Yes	20.5	
	No	15.1	< 0.0001
Prostitution (6,478) <sup>3</sup>	Yes	18.3	
	No	15.6	0.0868
Women:			
Number of male partners (2,105)	0	14.8	
	1	10.9	
	2 - 5	7.1	0.0007
	6+	13.7	$(3df)^2$
Prostitution (2,096) <sup>3</sup>	Yes	15.2	
\ 1/	No	8.3	< 0.0001

<sup>1:</sup> The question on frequency of injection relates to the preceding month. All other behaviours presented here relate to the six-month period that preceded the interview.

<sup>2:</sup> Degree of freedom.

<sup>3:</sup> Includes prostitution in exchange for money, drugs, or other goods and services.

Table 27 – Multivariate analysis of HIV prevalence using logistic regression, SurvUDI/I-Track Study, 1995-2004

Behaviour			Crude OR <sup>1</sup>	Adj. OR <sup>1</sup>	95% CI	p-value
Injection history	AND	drug most frequently injected	l			
- Less than 6 years		not cocaine	1.0	1.0	-	-
- Less than 6 years		cocaine	5.7	4.9	2.9-8.2	< 0.001
- 6 years or more		not cocaine	8.4	7.2	4.2-12.3	< 0.001
- 6 years or		more cocaine	19.7	16.1	9.8-26.7	< 0.001
Borrowed previously	used needles					
- Did not borrow needles			1.0	1.0	-	-
- Primarily borrowed needles from reg. sex. part./close friends or family		0.9	1.0	0.8-1.2	0.895	
- Primarily borrowed needles from strangers			1.7	1.4	1.1-1.7	0.002
Sex and sexual partne	ers					
Women	no prostitution		1.0	1.0	-	-
	prostitution		2.0	1.3	1.0-1.7	0.097
Men	female sexual partners only		1.0	1.0	-	-
	female and male sexual partners		1.5	1.4	1.1-1.9	0.009
	male sexual partners only		3.2	2.9	2.2-3.8	< 0.001
	no sexual partners <sup>2</sup>		3.3	2.9	2.5-3.5	< 0.001

<sup>1:</sup> OR: Odds ratio.

<sup>2:</sup> These individuals are older and have been using injection drugs for a longer period.

 $\begin{array}{ll} Table\ 28- & Risk\ factors\ associated\ with\ HCV\ prevalence,\ SurvUDI/I-Track\ Study,\\ & 2003\text{-}2004 \end{array}$ 

Behaviour during the previous six months (n)	% HCV p	p-value	
Injected cocaine (1,114)	Yes No	67.7 43.4	<0.0001
Injected heroin (1,114)	Yes No	54.1 71.1	< 0.0001
Injected prescription morphine (1,114)	Yes No	82.9 64.5	0.0250
Injected PCP (1,114)	Yes No	39.3 65.8	0.0037
Cocaine most frequently injected drug (1,113)	Yes No	70.1 53.0	<0.0001
Used cannabis (1,115)	Yes No	63.3 70.0	0.0450
Cocaine use other than injection (1,115)	Yes No	59.2 71.4	< 0.0001
Injection history (1,113)	Less than 6 years 6 years or more	45.0 74.0	<0.001
Injected drugs at least once a week in previous month $(1,107)^1$	Yes No	60.5 67.7	0.0162
Injection partners (1,112)	Strangers Known persons Alone	68.1 61.4 68.2	$0.0629$ $(2df)^2$
Borrowed needles (1,110)	Sometimes Never	68.6 63.1	0.0706
Needles obtained from whom (1,094)	Strangers Known persons Did not use	75.8 65.5 63.1	$0.0488$ $(2df)^2$
Injection material other than needles obtained from whom (1,093)	Strangers Known persons Did not use	75.5 59.9 65.5	$0.0169$ $(2df)^2$
Male prostitute (832)	Yes No	55.9 67.8	0.0620
Large number of sexual partners (men) (833)	Yes No	61.7 76.2	< 0.0001
Men who have had sex with other men (831)	Yes No	59.0 68.0	0.0732

Table 28 – Risk factors associated with HCV prevalence, SurvUDI/I-Track Study, 2003-2004 (cont.)

Behaviour during the previous six months (n)	% HCV	p-value	
Condom use (825)	No partners	78.9	-0.0001
	Always	68.2	$<0.0001$ $(2df)^2$
	Not always	60.3	(2d1)
Female prostitute (266) <sup>3</sup>	Yes	75.3	
•	No	49.1	< 0.0001
Number of male partners among women (267)	0	57.7	
	1	58.1	
	2 - 5	39.7	0.0012
	6+	71.7	$(3df)^2$
Large number of sexual partners among women (267)	Yes	71.7	
	No	51.4	0.0014
Bisexual relations among women (268)	Yes	48.1	
<u>-</u>	No	61.1	0.0867

<sup>1:</sup> The question on frequency of injection relates to the preceding month. All other behaviours presented here relate to the six-month period that preceded the interview.

85.5% of IDUs (953/1,115) indicated having been tested for HCV. Of these, 534 (56.0%) indicated that they were HCV positive.

494 of these 534 IDUs (92.5%) tested positive on the oral fluid tests we carried out.

Of the 348 IDUs who indicated that their last HCV test results had been negative, 228 (65.5%) tested negative on the oral fluid tests and 120 (34.5%) tested positive.

Among those who stated that they had HCV infection, 52.4% indicated that they were being monitored by a doctor for their infection (279/533) and only 3% (16/532) stated that they were taking medication for their condition.

<sup>2:</sup> Degree of freedom.

<sup>3:</sup> Includes prostitution in exchange for money, drugs, or other goods and services.

Figure 1 – HIV prevalence trends based on first visits, by recruitment site, SurvUDI/I-Track Study, 1995-2003

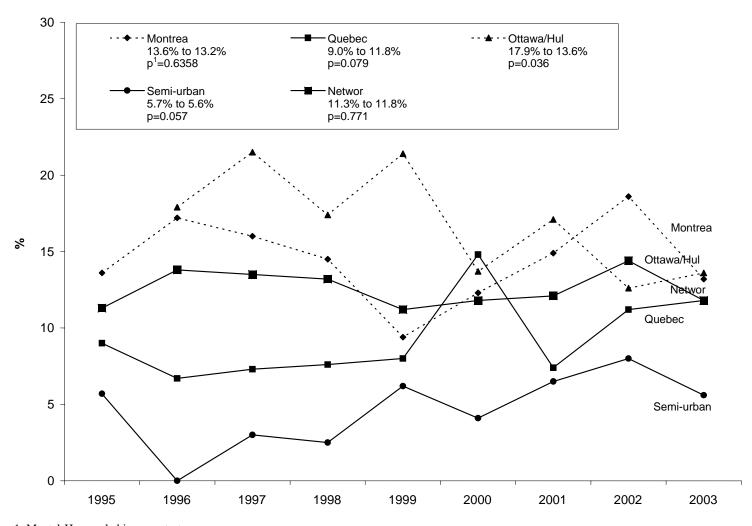


Table 29 – Distribution of multiple visits generated by repeaters, by recruitment region, SurvUDI/I-Track Study, 1995-2004

Program		Intra-program Inter-program			Las	Total visits	
	dupli	cates1	dupli	cates <sup>2</sup>	Overall <sup>3</sup>	By progr <sup>4</sup>	
	n	%	n	%	n	n	n
Abitibi-Témiscamingue	38	19.1	4	2.0	157	161	199
Estrie	87	17.1	20	3.9	402	422	509
Mauricie-Centre-du-Québec	26	8.8	13	4.4	257	270	296
Montérégie	6	3.0	27	13.3	170	197	203
Montreal	2,396	37.5	124	1.9	3,870	3,994	6,390
Ottawa	845	38.2	2	0.1	1,366	1,368	2,213
Hull	10	3.6	1	0.4	267	268	278
Quebec City	2,034	45.7	116	2.6	2,305	2,421	4,455
Saguenay-Lac-Saint-Jean	44	19.1	16	7.0	170	186	230
Network	5,486	-	323	-	8,964	9,287	14,773

<sup>1:</sup> Visits by individuals seen more than once at the same site.

73% (6,511/8,964) of individuals took part in the study on one occasion only. 24% (2,172/8,964) participated 2 to 5 times.

<sup>2:</sup> Visits by individuals subsequently seen at another site.

<sup>3:</sup> Visits retained in overall HIV/HCV prevalence and behavioural analyses (no inter- or intra-site duplicates).

<sup>4:</sup> Visits retained in HIV/HCV and behavioural analyses by collaboration site (inter-site duplicates included, intra-site duplicates excluded).

Table 30 – Comparison of injection behaviours in repeaters and non-repeaters, SurvUDI/I-Track Study, 1995-2004

Behaviour during the previous six months	% of non- repeaters n=6,207	% of repeaters <sup>1</sup> n=2,422	p-value
Injection partners:			
- Reg. sex. part./close friends/family	44.1	45.3	
- Strangers	38.9	40.3	0.013
- Used alone	17.0	14.4	$(2 df)^2$
Lent needles	30.0	37.2	< 0.001
Injected drugs at least once a week <sup>3</sup>	59.5	67.5	< 0.001
Borrowed needles	36.3	42.0	< 0.001
Borrowed needles primarily from strangers (among the 3,178 needle borrowers)	26.1	22.3	0.024
Borrowed other injection material (e.g., filters) <sup>4</sup>	42.3	46.9	0.002
Borrowed injection material primarily from strangers (among the 2,728 borrowers) <sup>4</sup>	24.6	23.0	0.406
Smoked crack or freebase	54.6	54.1	0.719
Drug most frequently injected:			
- Cocaine	74.6	74.7	
- Heroin	17.8	19.7	0.001
- Other	7.6	5.6	$(2df)^2$
Injection history of 6 years or more	56.1	52.4	0.002

<sup>1:</sup> Repeater data pertains to first visits.

Men represent 76.4% (4,784/6,261) of non-repeaters and 73.0% (1,780/2,439) of repeaters.

<sup>2:</sup> Degree of freedom.

<sup>3:</sup> The question on frequency of injection relates to the preceding month. All other behaviours presented here relate to the six-month period that preceded the interview.

<sup>4:</sup> The questions relating to borrowed injection material and the sources of these materials were added in 1996. Respective sample sizes are 6,493 (5,012 non-repeaters and 1,481 repeaters) and 2,728 (2,049 non-repeaters and 679 repeaters).

Table 31 – Comparison of sexual behaviours in repeaters and non-repeaters, SurvUDI/I-Track Study, 1995-2004

Behaviour during the previous six months	% of non- repeaters	% of repeaters <sup>1</sup>	p-value
Women	n=1,476	n=659	
Prostitution <sup>2</sup>	41.7	49.2	0.001
Nb. of male sexual partners			
- 0	6.1	4.6	
- 1	25.4	22.8	
<b>-</b> 2 – 5	29.1	24.7	0.003
- ≥6	39.4	48.0	$(3 df)^3$
Men	n=4,785	n=1,780	
Prostitution <sup>2</sup>	9.8	9.4	0.577
Nb. of male sexual partners			
- 0	85.8	85.2	
- 1	4.2	4.7	
- 2-5	4.7	4.4	0,583
- ≥6	5.3	5.8	$(3df)^3$
Nb. of female sexual partners			
- 0	22.4	23.7	
- 1	28.6	29.8	
<b>-</b> 2 – 5	34.1	34.8	0.105
<b>-</b> ≥6	14.0	11.6	$(3df)^3$

<sup>1:</sup> The data on repeaters are those provided on the first visit.

<sup>2:</sup> Includes prostitution in exchange for money, drugs, or other goods and services.

<sup>3:</sup> Degree of freedom.

Table 32 – HIV incidence, by recruitment region, SurvUDI/I-Track Study, 1995-2004

	Network	Quebec City	Montreal <sup>1</sup>	Ottawa- Hull	Semi- urban <sup>2</sup>
Number of repeaters	2,453	762	1,103	378	177
Number of repeaters who initially tested negative for HIV	2,100	694	921	313	172
Follow-up (PY)	5,468.2	2,026.6	2,365.3	693.9	382.3
Number of seroconversions	194	54	102	31	7
Incidence rate (per 100 PY)	3.5	2.7	4.3	4.5	1.8
95% CI (per 100 PY)	3.0 - 4.0	2.0 - 3.4	3.5 – 5.1	2.9 - 6.0	0.5 - 3.2

<sup>1:</sup> IDUs recruited in Montreal, or in Montérégie but residing on Montreal's immediate south shore or in Montreal.

The average interval between two participations in the study is 1.4 years (median = 1.0). The average period of observation per repeater was 918.3 days (median = 670.5).

<sup>2:</sup> IDUs recruited in Abitibi-Témiscamingue, Montérégie (minus those who stated that they resided on Montreal's immediate south shore or in Montreal), Saguenay-Lac-Saint-Jean, Estrie and Mauricie-Centre-du-Québec.

Figure 2 – HIV incidence trend, SurvUDI/I-Track Study, 1995-2003

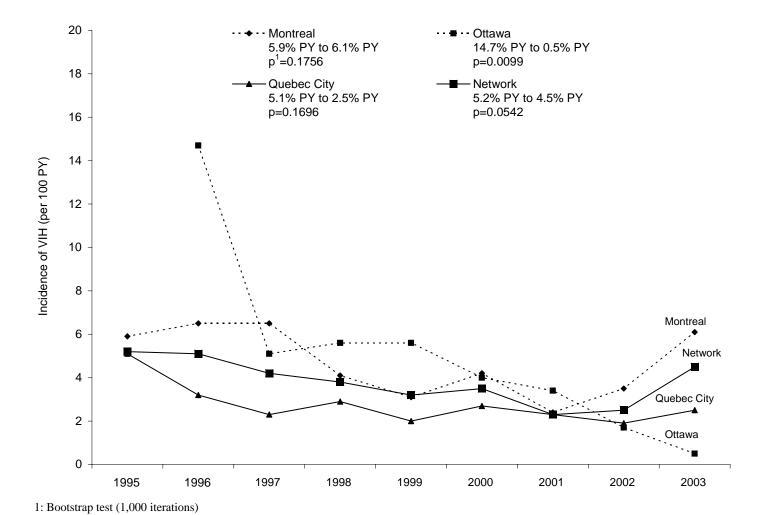


Table 33 – Multivariate analysis of HIV incidence, SurvUDI/I-Track Study, 1995-2004

Risk factors	Crude RR <sup>1</sup>	Adjust. RR	95% CI <sup>2</sup>	p-value
Used borrowed needles <sup>3</sup>	2.4	2.3	1.7/3.1	< 0.001
Cocaine drug most frequently injected <sup>3</sup>	2.3	1.9	1.2/3.1	0.004
Used with strangers <sup>3</sup>	1.8	1.3	0.9/1.8	0.1322
25 years or older	2.2	2.1	1.4/3.2	< 0.001
Also in the model:				
Recruitment region				
- Quebec City	1.0	1.0		(reference)
- Montreal	1.6	1.7	1.2/2.4	0.005
- Ottawa-Hull	1.6	1.4	0.9/2.3	0.172
- Semi-urban	0.8	0.7	0.3/1.4	0.291

<sup>1:</sup> Risk ratio obtained with the Cox model.

<sup>2:</sup> Confidence interval 95%.

<sup>3:</sup> During the previous six months.

Table 34 – Use of previously used needles by repeaters during the previous six months, SurvUDI/I-Track Study 1995-2004

#### Statistically significant reduction

Used needles previously used by others		-	ec City visit		_	Montreal last visit		
		Yes	No		Yes	No		
First visit	Yes	130	186	316 (41.9%)	265	220	485 (43.3%)	
	No	102	336		179	456	( /	
		232 (30.8%)			444 (39.6%)			
		McNemar = 2 p<0.0001	24.5		McNemar = 4 p=0.0401	1.2		

## No statistically significant trend

Used needles previously used by others		awa visit			urban visit	
	Yes	No		Yes	No	
Yes	64	70	134	49	38	87
First visit			(35.1%)			(50.3%)
No	55	193		29	57	
	119 (31.2%)			78 (45.1%)		
	McNemar = 1 p=0.1797	1.8		McNemar = 1 p=0.2715	1.2	

Table 35 – Use of previously used other injection material by repeaters during the previous six months, SurvUDI/I-Track Study, 1995-2004

## Statistically significant reduction

Used injection supplies previously used by others		_	ec City visit			Ottawa Last visit		
		Yes	No		Yes	No		
	Yes	77	91	168	65	70	135	
First visit				(42.4%)			(48.0%)	
	No	53	175		29	117		
		130 (32.8%)			94 (33.5%)			
		McNemar = 1 p=0.0015	0.0		McNemar = 1 p<0.0001	7.0		

## No statistically significant trend

Used injection supplies previously used by others		_	treal visit		Semi-urban last visit		
			No		Yes		
	Yes	179	139	318	42	24	66
First visit				(48.5%)			(50.8%)
	No	117	221		19	45	
		296 (45.1%)			61 (46.9%)		
		McNemar = 1	1.89		McNemar = 1	.8	
		p=0.1691			p=0.1797		

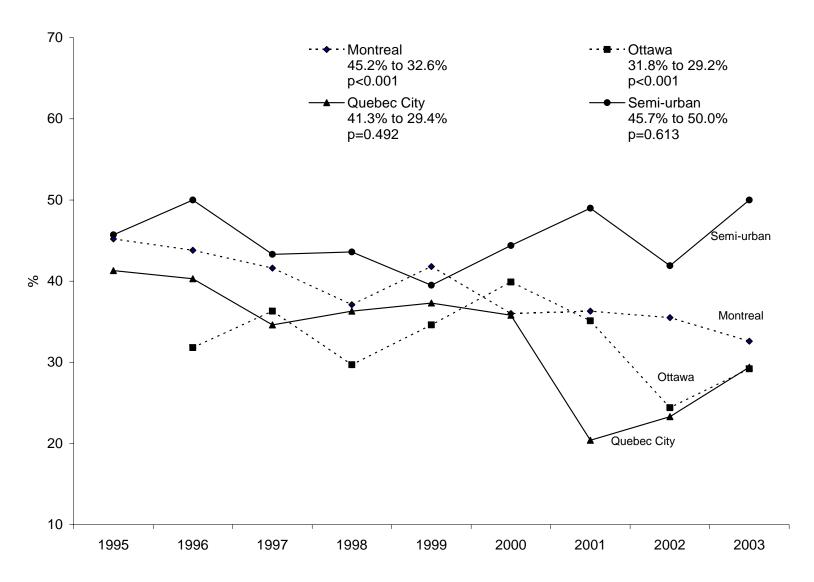
Table 36 - Cocaine as drug most frequently injected by repeaters during the previous six months, SurvUDI/I-Track Study, 1995-2004

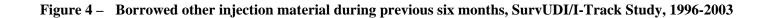
		Statistically significant reduction			Statistically significant increase		
Cocaine as drug most frequently injected			itreal visit No		Ottawa last visit Yes No		1
First visit	Yes	659	89	748 (67.1%)	243	52	295 (77.4%)
That visit	No	123	244		22	64	(77.170)
		782 (70.1%)			265 (69.6%)		
		McNemar = 5 p=0.0195	5.45	•	McNemar = 1 p=0.0005	12.16	'

### No statistically significant trend

Cocaine as drug most frequently injected		_	ec City visit			Semi-urban last visit Yes No		
		Yes	No		Yes	No		
First visit	Yes	576	53	629 (83.5%)	130	12	142 (80.2%)	
1 1100 11000	No	46	78		18	17		
		622 (82.6%)			148 (83.6%)			
		McNemar = 0 p=0.4817	).4949	·	McNemar = 1 p=0.2733	.2	·	

Figure 3 – Borrowed syringes/needles during the six-month period prior to their first visit, SurvUDI/I-Track Study, 1995-2003





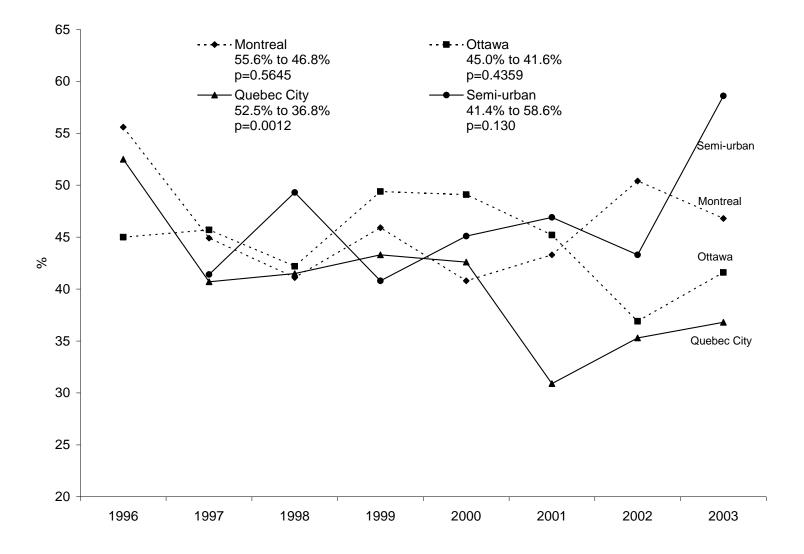


Figure 5 – Borrowed syringes/needles, average % during one-month period prior to first visit, SurvUDI/I-Track Study, 1999-2003

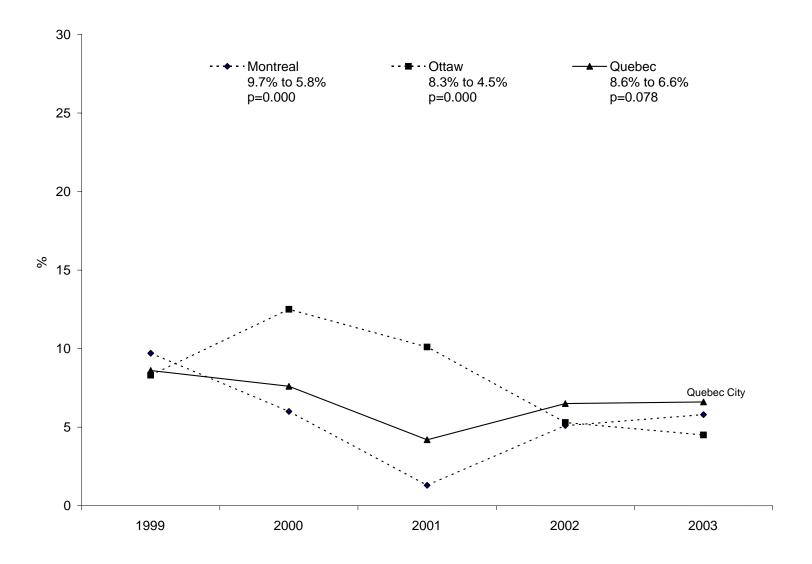


Figure 6 – Borrowed other injection material, average % during one-month period prior to first visit, SurvUDI/I-Track Study, 1999-2003

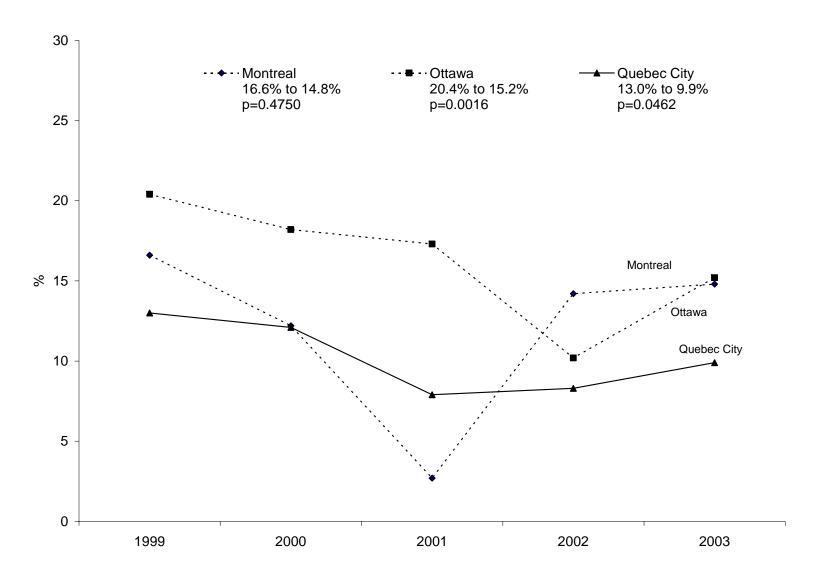
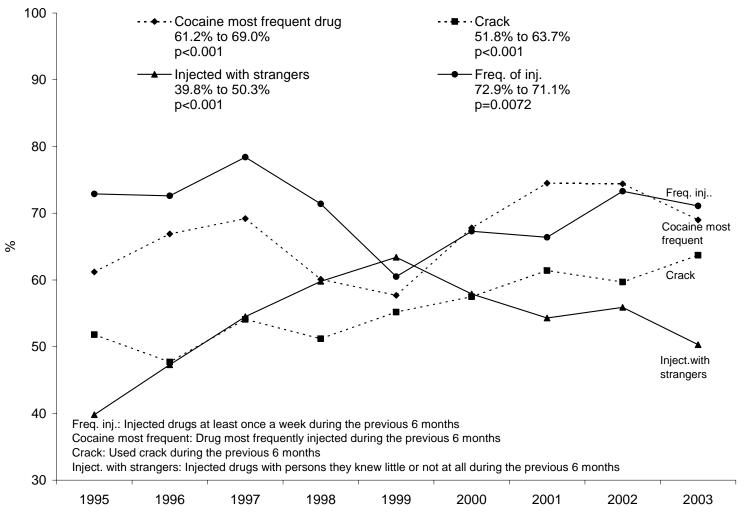


Figure 7 – Trends for factors associated with HIV incidence – Montreal, during the six-month period prior to the first visit, Réseau SurvUDI/I-Track, 1995-2003



Comment: Injection frequency trends are similar and significant (p=0.0329) when the analysis is limited to those who reported cocaine as the drug they injected most frequently.

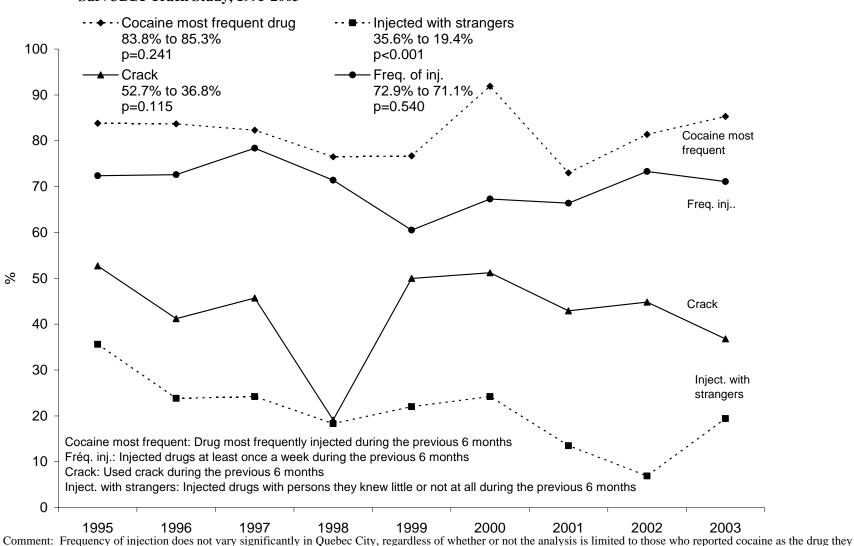
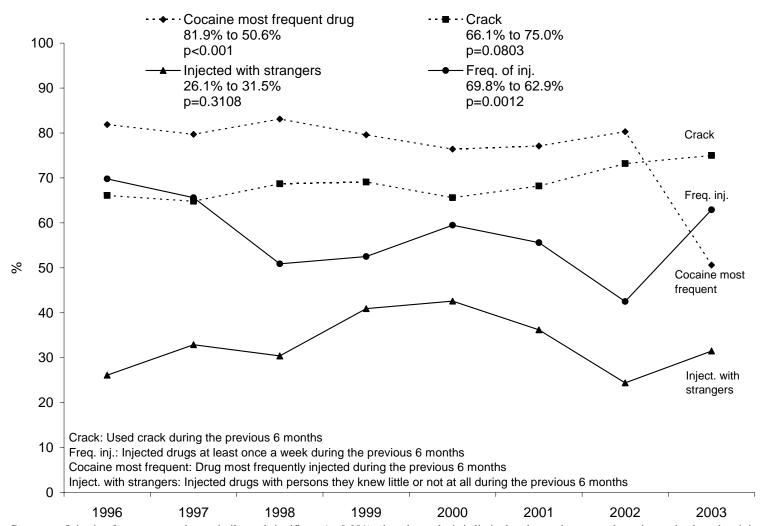


Figure 8 – Trends in factors associated with HIV incidence – Quebec City, in the six-month period prior to the first visit, SurvUDI/I-Track Study, 1995-2003

most frequently inject.

Figure 9 – Trends in factors associated with HIV incidence – Ottawa, in the six-month period prior to the first visit, SurvUDI/I-Track Study, 1996-2003



Comment: Injection frequency trends are similar and significant (p<0.001) when the analysis is limited to those who reported cocaine as the drug they injected most frequently.

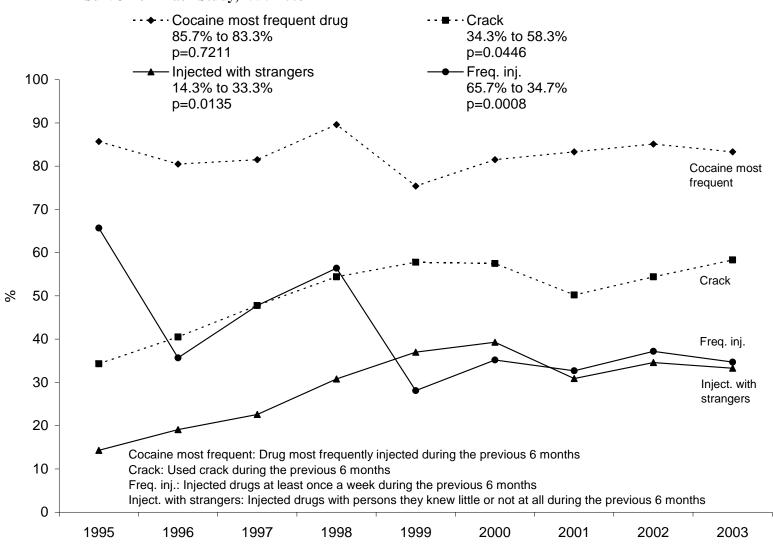


Figure 10 – Trends for factors associated with HIV incidence – Semi-urban, in the six-month period prior to the first visit, SurvUDI/I-Track Study, 1995-2003

Comment: Injection frequency trends are similar and significant (p<0.001) when the analysis is limited to those who reported cocaine as the drug they injected most frequently.

# APPENDIX SURVUDI I-TRACK STUDY

#### ANNEXE – SURVUDI I-TRACK STUDY

Figure 11 – SurvUDI I-Track Study in Canada

