Canadian Addiction Survey 2004:

Microdata eGuide

Canadian Centre on Substance Abuse

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August, 2007

This document is revised from an earlier edition (November 2004 and June 2005)

Canadian Centre on Substance Abuse

Errata: CAS Microdata eGuide

August 2007

The CAS included a brief six-item screener to measure problematic drug use. The screener, the ASSIST, was developed by the World Health Organization.

An error was recently found in one symptom (represented in the questionnaire by two items: CNAS5 and ASSIS5) of the ASSIST scale. Properly stated, the question is "Have you ever tried [AND FAILED] to control, cut down or stop using cannabis, marijuana or hashish {or other drugs}. The phrase "and failed" was not asked of respondents. This error, in turn, affects the following derived variables in the Microdata eGuide: ASISTCAN, ASISTCN3, ASISTCN2, ASISTIL, ASISTIL2 and ASISTIL3.

NOTE: A small study to assess the impact of the missing "and failed" phrase suggested that estimates with the missing phrase underestimate the standard ASSIST item, but total scores and their cutoffs do not differ significantly between the two versions. This error should not affect estimates of subgroup differences (i.e., sex, age and regional differences). Caution and warning should be used in making direct comparisons with other studies using the ASSIST.

Variables affected by the missing "and failed" wording:

Page	Variables/ items
P. 41	CNAS5
P. 41	ASCAN5
P. 41	ASISTCAN
P. 41	ASISTCN3
P. 42	ASISTCN2
P. 50	ASIS5
P. 50	ILASIS5
P. 50	ASISTIL
P. 50	ASISTIL3
P. 51	ASISTIL2

June 2005 Updates to November 2004 Microdata eGuide

1. Section 4.1 - Questionnaire Content and Design

This section has been revised and a table describing item allocation in the 3 panels of the questionnaire has been added (Table 1.1, page 4).

2. Section 5.1 - Data weighting

The variable "strata" in the CAS 2004 data file is based on the 21 regional strata (CMA) described in Table 5.1 (page 13).

3. Variables not documented in this eGuide

The following variables in the CAS 2004 data file are not meant for analysis and are thus not documented:

rmr	j1 to j7	gend_rmr
strat	lcp5a	freqalc
aleaa	lcp5b	alclev7
aleac	age_6	

4. Occupation

The variable "sdem3" was revised in a new variable named "occupat". The variable "occupat", which contains revised occupation codes based on the NOC (National Occupation Codes), should be used for recoding purposes.

5. Updates to Appendix 1 (Derived Variables)

The information regarding derived variables has been extensively updated.

6. Updates to Appendix 3 (Questionnaire).

A detailed table describing the questionnaire content and item allocation across panels has been added (Table A3.1).

The Canadian Addiction Survey (CAS) is a major national survey of Canadians' attitudes, beliefs, and personal use of alcohol and other drugs. It is a collaborative initiative financially supported by Health Canada, the Canadian Executive Council on Addictions (CECA) -- which includes the Alberta Alcohol and Drug Abuse Commission (AADAC); the Addictions Foundation of Manitoba (AFM); the Canadian Centre on Substance Abuse (CCSA); the Centre for Addiction and Mental Health (CAMH); Prince Edward Island Mental Health and the Kaiser Foundation; -- the Victoria-based Centre for Addiction Research (CAR - BC), the British Columbia Ministry of Health Planning, the New Brunswick Department of Health and Wellness, and the Nova Scotia Department of Health.

The CAS Research Advisory Team includes the following (alphabetical order):

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1. Background and Rationale

Timely and relevant data are necessary prerequisites for effective health policy and programming and for the monitoring of established health objectives. During the last decade, national health surveys such as the Canadian Community Health Survey (CCHS) and the National Population Health Survey (NPHS) have been developed to meet these important needs.

Although these existing national health surveys provide some prevalence indicators for the addiction field, they do not provide the necessary knowledge base required for ongoing planning. Indeed, professionals in other health behaviours such as tobacco and physical activity have found the need for dedicated on-going surveys (Canadian Tobacco Use Monitoring Survey, Physical Activity Monitor). This absence of addiction specific data at a national level is especially important given that the political agenda will likely see the greatest changes to drug use policy since the turn of the century.

The Canadian Addiction Survey (CAS) is a major national survey of Canadians' attitudes, beliefs, and personal use of alcohol and other drugs. It is a collaborative initiative sponsored by the Canadian Executive Council on Addictions (CECA) - which includes the Canadian Centre on Substance Abuse (CCSA); Alberta Alcohol and Drug Abuse Commission (AADAC); the Addictions Foundation of Manitoba (AFM); the Centre for Addiction and Mental Health (CAMH), Prince Edward Island Mental Health and Addictions and the Kaiser Foundation, the provinces of Nova Scotia, Ontario, Manitoba, Alberta and British Columbia and Health Canada.

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2. Objectives

The key objectives of the proposed CAS are as follows:

- 1. To determine the prevalence, incidence and frequency of alcohol and other drug use in the Canadian population aged 15 and older. The drugs of interest include alcohol, tobacco, illicit drugs, including cannabis, heroin and other opiates, cocaine and crack, amphetamines, hallucinogens (including MDMA) and inhalants.
- 2. To assess the context of use and the extent of harms that result from those individuals who use drugs. Measures include indicators of hazardous and harmful drinking, dependence and abuse indicators, and the adverse effects on personal and social functioning.
- 3. To identify the risk and protective factors related to the use and consequences of drug use in the general population and in specific sub-groups.
- 4. To assess the public's opinions, views and knowledge regarding existing and potential addiction policies and to identify emerging policy issues.

3. CAS Sample Design

The CAS was based on a two-stage (telephone household, respondent) random sample stratified by 21 regional units. The CAS was administered by Jolicoeur et associés, who were responsible for sample selection, telephone interviewing, and preparation of the initial microdata file. The survey used random-digit-dialling (RDD) methods via Computer Assisted Telephone Interviewing (CATI). The sampling frame was based on an electronic inventory (Statplus) of all active telephone area codes and exchanges in Canada. Within each of the 21 regional strata, defined by CMA versus non-CMA within each province (see Table 5.1), a random sample of telephone numbers was selected with equal probability in the first stage of selection (i.e., households). Within selected households, one respondent age 15 or older who could complete the interview in English or French was selected according to the most recent birthday of household members. A minimum of 12 call-backs were placed to unanswered numbers and all households who refused to participate on the first contact are re-contacted in order to secure maximum participation.

The base sample allocation was for 10,000 completions, 1,000 per province. In addition, some provinces purchased additional cases (1,400 in Alberta, 2,000 in British Columbia and 500 in Manitoba) resulting in a final allocation of 13,909.

The CAS sample represents some 24,214,815 Canadians aged 15 and older.

4. Data Collection and Quality

4.1 Questionnaire Content and Design

The CAS is one of the most detailed and extensive addiction surveys ever conducted in Canada, with more than 400 unique questionnaire items. In order to maximise the content areas of the survey without increasing the interview length, two categories of questions were created in the CAS: <u>full items</u>, those questions asked of all respondents, and <u>panel items</u>, those asked of three independent random sub-samples, Panels A through C. In total, **13,909** respondents comprised the full interview items, **4,612** were interviewed for **Panel A** items, **4,639** for **Panel B** items, and **4,658** for **Panel C** items (see Table 1.1).

Some of the new or unique content areas in the CAS include the following:

- An extended section on public attitudes, opinions & policy issues
- Newly developed health related quality of life indicator (HRQoL)
- Occasion-based drinking characteristics
- World Health Organization Alcohol Use Disorders Identification Test (WHO AUDIT) to measure high risk drinking
- Detailed items related to cannabis use opportunities, reasons and market factors
- World Health Organization Alcohol, Smoking and Substance Involvement Screening Test (WHO ASSIST) to measure hazardous or harmful illicit drug use
- Extended detail on personal and contextual factors for illicit drug use
- An extended section on drug use harms and victimization
- New national estimate of drug use and driving
- New material assessing unmet treatment needs
- New material allowing researchers to further study economic cost issues.

Table 1.1 - CAS 2004 - Questionnaire Panels

Number of respondents (Total N=13,909)	Panel A 4,612	Panel B 4,639	Panel C 4,658
rumber of respondents (Total 11–153202)	4,012	4,000	4,050
Attitudes, Opinions, Policy (part 1)			
Perceived seriousness at national level	✓		
Perceived seriousness at provincial level		✓	
Perceived seriousness at community			✓
Perceived harm of drug use	✓	✓	
Perceived risk			✓
Perceived availability	✓		
Health & Well-Being			
General Health; Mental Health		✓	
Social isolation		✓	
Tobacco Use			✓
Alcohol			
Prevalence, patterns of consumption	✓	✓	✓
Occasion-based drinking			✓
Home Brew (wine & beer)			✓
Alcohol Use Disorders Identification Test (WHO AUDIT)	✓	✓	✓
Cannabis			
Prevalence, patterns of consumption	✓	✓	✓
Context of cannabis use	✓	✓	✓
Cannabis problems (WHO ASSIST)	✓	✓	✓
Illicit Drugs			
Prevalence, patterns of consumption (cocaine, speed,	✓	✓	✓
ecstasy, hallucinogens, inhalants, heroin, steroids)			
Context of use	✓	✓	✓
Injection drug use	✓	✓	✓
Illicit drug use problems (WHO ASSIST)	✓	✓	✓
Harms and costs			
Self-reported harms (alcohol & drugs)	✓	✓	✓
Victimization and violence	✓	✓	✓
Willingness to pay	✓		
Attitudes, Opinions, Policy (part 2)			
Government programs	✓		
Societal impact	*	✓	
Policy opinion (alcohol, cannabis, drugs)		•	✓
Driving and substance use (alcohol and cannabis)		✓	•
Treatment	√	· /	1
	1	, ,	, ,
Demographics	▼	▼	▼

4.2 Questionnaire Pretesting and Interviewing

Core substance use measures were typically drawn from pre-existing national surveys, including the 1989 NADS (Eliany, Giesbrecht, et al.,1990), the 1994 CADS (MacNeil and Webster, 1997) and the current CCHS (Tjepkema, 2004). Prior to the initiation of fieldwork, all new questions and full interviews were pretested with approximately 25 respondents. This pre-survey analysis included information from pretest respondents, and expert evaluation from the Research Advisory Team.

Telephone interviews were conducted in both English and French by Computer-Assisted-Telephone Interviewing (CATI) methods between December 16 to December 23, 2003 and from January 9 to April 19, 2004. Compared with "paper-pencil" questionnaires, CATI interviews have several advantages, including: immediate data capture, automatic control of question sequences, centralized interviewer supervision and capability of randomization of respondents to particular questions. For each time zone, the normal interviewer's working schedule was from 8:00 am to 11:00 pm Monday to Friday, from 12:00 pm to 8:00 pm on Saturday and from 1:00 pm to 9:00 pm on Sunday. Ten percent of interviews were validated by re-contacts.

As seen in Table 1.2, the median interview time was 23 minutes (80% of interviews were completed within 30 min). Interviews were conducted by 89 interviewers, many of whom had considerable CATI experience. In addition, all respondents who refused to participate on the first call, were recontacted by an experienced interviewer in order to maximize participation. Table 1.2 also documents interviewing activity related to day of interview, length of interview and number of calls.

Table 1.2 - CAS Interviewing Activity

	N	Unweighted %
Fieldwork		
Dec. 16- Dec. 23, 2003;	409	2.1
Jan. 9 - April 21, 2004	13501	97.9
Days		
Sunday	2042	14.7
Monday	2155	15.5
Tuesday	2219	16.0
Wednesday	2107	15.1
Thursday	2000	14.4
Friday	1461	10.5
Saturday	1925	13.8
Interview length (min.)		
<10 min.	334	2.4
10-19	3,324	23.9
20-39	9,740	70.0
30-49	407	2.9
50-59	72	0.5
60+ min	32	0.2
Median	23 min	
No. of contacts		
1	2,146	15.4
2-3	3,856	27.7
4-6	3,867	27.8
7+	4,040	29.1
Language of Interview		
English	12,596	90.6
French	1,313	9.4

4.3 Participation & Sample Evaluation

Of the 59,795 selected telephone numbers (of which 29,573 were known to be eligible or estimated to be eligible), 13, 909 respondents participated, representing an effective response rate of 47.0% (Table 2). Response rates varied from 43.6% in British Columbia to 51.1% in Manitoba.

The response rate approaching 50% is lower than prior national addiction surveys, and thus, an evaluation of potential bias is necessary. It is important to note, however, that the potential bias of nonresponse is not solely a function of the response rate. It is influenced by (1) the magnitude of the response rate and (2) the difference between respondents and non-respondents (which is generally unknown). Thus, sizeable bias may occur in a survey with a good response rate, but with large differences between responders and non-responders, and ignorable bias may occur in a survey with low response rate, but with small differences between responders and non-responders (Groves & Couper, 1998).

Thus, to strengthen the confidence in these data, it is important to show that key demographic characteristics and the CAS sample are similar to the Canadian population, and that drug use indicators seem reasonable. Table 3 presents key demographic characteristics of the CAS sample, including the number of interviews, the unweighted and weighted percentages and the design effects. Table 4 compares demographic characteristics of the CAS sample to population data based on the 2001 Canadian Census. As seen in Table 4, the weighted CAS distribution compares favourably to the Census data (note that this should be case given that the weights include population adjustments for sex, age and province). It is important to note, however, that the CAS sample tends to underrepresent respondents who were never married and had some post-secondary education and overrepresent respondents who were married and had a university degree. These differences are common to telephone surveys (Trewin & Lee, 1988).

In addition, confidence in the CAS data would also be strengthened by demonstrating that substance use estimates were similar to recent surveys such as the 2002 CCHS. As seen in Table 5, CAS estimates are generally within range of those found in the CCHS. Indeed, of the 66 estimates in Table 5, only 9 comparisons exceed ±3% points. In all instances, the CAS estimates are higher than the CCHS. For the total sample the CAS estimates are higher for lifetime cannabis use and any lifetime illicit drug use; for men, the CAS estimates are higher for lifetime cannabis, lifetime cocaine, lifetime hallucinogens and any illicit drug use; for women, the CAS estimates are higher for lifetime alcohol, past year alcohol and lifetime cannabis use. In sum, despite a response rate of 47%, there is no obvious evidence of systematic bias in the CAS data.

Among participants, data quality also appeared to be evident. A majority of CAS respondents (79.5%) answered all questions required of them In total, 97.4% of respondents had two or fewer item missing responses (total item missing responses ranged from 0 to 31, mean=0.33).

Table 2. CAS Fieldwork Statistics

		NWF	PEI	NS	NB	QUE	ONT	MAN	SAS	ALB	ВС	TOTAL	%
	NUMBERS AVAILABLE	4600	3725	3900	4600	3700	4850	6500	4200	9920	13800	59795	
	NUMBERS CALLED	4600	3725	3900	4600	3700	4850	6500	4200	9920	13800	59795	100.00%
	Out of service	1832	1052	1223	1722	905	1427	2362	1295	2034	3459	17311	28.95%
	Non-residential	299	245	261	343	285	476	422	285	1012	903	4531	7.58%
	Line problems	54	35	21	41	21	34	29	36	52	72	395	0.66%
	Fax	205	206	207	235	230	308	378	328	883	1140	4120	6.89%
	Changed numbers NON VALIDE {out-of-	30	46	47	108	83	103	34	18	91	96	656	1.10%
Α,	scope}}	2420	1584	1759	2449	1524	2348	3225	1962	4072	5670	27013	45.18%
	VALIDE (in scope)	2180	2141	2141	2151	2176	2502	3275	2238	5848	8130	32782	54.82%
	Not eligible	8	11	8	9	10	16	13	5	28	45	153	0.47%
	Language problems	19	8	8	10	42	155	114	28	185	555	1124	3.43%
	Age, sickness	76	72	65	68	39	48	94	64	87	167	780	2.38%
	Duplicate	6	5	4	3	0	6	3	2	7	12	48	0.15%
В,	HORS ÉCHANTILLON	109	96	85	90	91	225	224	99	307	779	2105	6.42%
	ÉCHANTILLON	2071	2045	2056	2061	2085	2277	3051	2139	5541	7351	30677	93.58%
C,	Household refusal	435	410	472	372	421	579	745	474	1389	2063	7360	23.99%
D,	Selected person refusal	170	158	172	195	252	173	227	168	394	521	2430	7.92%
D,	Long absence	28	18	11	7	4	21	14	5	27	51	186	0.61%
D,	Incomplete	16	7	8	17	20	19	18	15	27	38	185	0.60%
C.	No answer	225	305	258	231	191	302	343	279	755	1025	3914	12.76%
D,	Call backs	196	147	133	239	194	183	202	198	548	653	2693	8.78%
	COMPLETED	1001	1000	1002	1000	1003	1000	1502	1000	2401	3000	13909	
	% REFUSAL	29.2%	27.8%	31.3%	27.5%	32.3%	33.0%	31.9%	30.0%	32.2%	35.2%	31.9%	
	% COMPLETED	48.3%	48.9%	48.7%	48.5%	48.1%	43.9%	49.2%	46.8%	43.3%	40.8%	45.3%	
ER	ELIGIBILITY RATE	92.8%	93.3%	94.0%	94.2%	94.3%	86.1%	89.8%	93.3%	91.7%	84.6%	90.2%	
RR	RESPONSE RATE	49.5%	50.1%	49.9%	49.4%	48.9%	46.4%	51.1%	47.9%	44.8%	43.6%	47.0%	

Table 3. Demographic Characteristics of the CAS 2004 Sample

	No. Interviews	Unweighted % (N=13909)	Weighted % (N=25773)	Design Effect
Gender				
Male	5721	41.1	48.5	3.4
Female	8188	58.9	51.5	3.4
Age				
15-17	581	4.2	4.2	3.0
18-19	439	3.2	3.6	3.5
20-24	1065	7.7	8.5	3.5
25-34	2342	16.8	16.1	2.9
35-44	2720	19.6	20.5	3.5
45-54	2706	19.5	17.8	3.4
55-64	1853	13.3	11.5	2.9
65-74	1179	8.5	9.7	3.9
75+	719	5.2	5.9	3.8
Missing	305	2.2	2.3	3.0
Marital Status				
Married	6778	48.7	45.2	3.3
Partner/ Common-law	1152	8.3	9.9	3.1
Widowed	914	6.6	6.7	3.6
Separated	454	3.3	3.8	3.7
Divorced	885	6.4	6.3	3.3
Never Married	3632	26.1	27.6	3.3
Missing	94	0.7	0.5	3.2
Province *				
Newfoundland	1001	7.2	1.7	1.14
Prince Edward Island	1000	7.2	0.4	1.10
Nova Scotia	1002	7.2	3.0	1.19
New Brunswick	1000	7.2	2.4	1.11
Quebec	1003	7.2	24.1	1.09
Ontario	1000	7.2	38.5	1.11
Manitoba	1502	10.8	3.6	1.07
Saskatchewan	1000	87.2	3.1	1.06
Alberta	2401	17.3	9.8	1.15
British Columbia	3000	21.6	13.4	1.09
Rural FSA				

	No. Interviews	Unweighted % (N=13909)	Weighted % (N=25773)	Design Effect
Rural	3016	21.7	15.7	2.8
Not-Rural	10893	78.3	84.3	2.8
Highest Education				
Less than high school	2471	17.8	17.2	3.1
Completed high school	3926	28.2	26.6	3.2
Some college or university	4267	30.7	30.3	3.3
Graduated university	3146	22.6	25.1	3.3
Missing	99	0.7	0.8	3.2
Gross Family Income (,000s)				
<\$20	1067	7.7	6.8	3.0
\$20-29.9	1083	7.8	7.2	3.2
\$30-39.9	1139	8.2	7.8	3.2
\$40-49.9	1039	7.5	7.4	3.4
\$50-59.9	957	6.9	6.9	3.3
\$60-69.9	774	5.6	5.6	3.3
\$70-79.9	730	5.2	5.0	3.0
\$80-89.9	561	4.0	4.4	3.6
\$90-99.9	332	2.4	2.3	3.2
\$100+	2286	16.4	18.0	3.5
DK	1470	10.6	10.2	3.2
Refused	2471	17.8	18.4	3.4
Employment Status				
Full-time job	6018	43.3	45.3	3.3
Part-time job	1366	9.8	9.0	3.1
Unemployed	674	4.8	4.4	2.9
Homemaker	724	5.2	4.5	2.9
Student	1236	8.9	9.1	3.3
Retired	2526	18.2	19.2	3.6
Other	1304	9.4	8.0	3.2
Missing	61	0.8	1.0	3.1
Language spoken at home				
English	12014	86.4	70.1	1.8
French	1338	9.6	23.2	1.2
Other	525	3.8	6.5	4.6
Missing	32	0.4	0.4	1.4

Table 4. Selected Demographic Characteristics: Weighted CAS 2004 versus 2001 Census Data, Canada Population, Aged 15 Years and over.

	(CAS 2004 (N=13,909)		(N	2001 Canada Census =24,214,835)
GENDER					
Male	(47.0	48.5	50.0)		48.5
Female AGE	(50.0	51.5	53.0)		51.5
15- 24	(15.4	16.5	17.6)		16.7
25- 44	(36.0	37.4	38.9)		37.9
45- 64	(28.6	30.0	31.4)		30.3
65+	(14.8	16.0	117.2)		15.2
MARITAL STATUS					
Never married	(26.4	27.7	29.1)	*	33.4
Married/ Common Law	(53.9	55.4	56.9)	*	50.1
Widowed/ Separated/ Divorced	(15.7	16.9	18.0)		16.5
PROVINCE					
Newfoundland	(1.64	1.7	1.73)		1.7
Prince Edward Island	(0.04	0.4	0.04)		0.4
Nova Scotia	(2.93	3.0	3.10)		3.1
New Brunswick	(2.36	2.4	2.49)		2.5
Quebec	(23.71	24.1	24.72)		24.6
Ontario	(37.89	38.5	39.03)		37.9
Manitoba	(3.54	3.6	3.71)		3.7
Saskatchewan	(3.02	3.1	3.22)		3.2
Alberta	(9.65	9.8	9.98)		9.7
British Columbia	(13.1	13.4	13.5)		13.2
HIGHEST EDUCATION			-		
High School or Less	(42.6	44.1	45.6)		45.4
Some Post-Secondary	(29.2	30.6	32.0)	*	39.2
University Degree	(23.9	25.3	26.7)	*	15.4

Notes: CAS data refer to: lower limit of 95% confidence interval, percentage estimate, and upper limit of 95% confidence interval; * indicates census data is not within the bounds of the CAS CI (CAS data excludes missing data).
Source: Statistics Canada. [On-line]. Available: http://www12.statcan.ca/english/census01/home/index.cfm

Table 5. Comparison of Substance Use Indicators, CAS 2004 versus CCHS 2002

	Total		Men		Women	
	CAS	CCHS	CAS	CCHS	CAS	CCHS
Alcohol - life	92.8 (92.0-93.6)	90.3	94.1 (92.8-95.2)	93.6	91.6 (90.5-92.7)	87.2
Alcohol - 12m	79.3 (78.1-80.5)	77.3	82.0 (80.1-83.8)	82.0	76.8 (75.1- 78.4)	72.7
Cannabis - life	44.5 (43.0- 46.0)	41.3	50.1 (47.8-52.5)	47.0	39.2 (37.3-41.1)	35.9
Cannabis - 12m	14.1 (13.1-15.2)		18.2 (16.6-20.0)	15.5	10.2 (9.1-11.5)	9.1
Cocaine/crack—life	10.6 (9.7-11.6)	8.0	14.1 (12.6-15.8)	10.7	7.3 (6.4-8.3)	5.4
Ecstasy - life	4.1 (3.5-4.7)	2.9	5.2 (4.3-6.3)	3.7	3.0 (2.4-3.7)	2.2
Hallucinogens -life	11.4 (10.5-12.4)	8.4	16.0 (14.4-17.8)	11.1	7.1 (6.2-8.1)	5.8
Speed life	6.4 (5.6-7.2)	4.6	8.7 (7.4-10.2)	6.0	4.1 (3.5-4.9)	3.2
Heroin - life	0.9 (0.6-1.2)	0.7	1.3 (0.9-1.9)	1.1	0.5 (0.3-0.7)	0.4
Any illicit -life	17.0 (15.9-18.1)	13.7	21.8 (20.0-23.8)	17.3	12.4 (11.2-13.7)	10.2
Any illicit—12m	3.1 (2.6-3.6)	2.4	4.4 (3.6-5.4)	3.2	1.9 (1.4-2.4)	1.6

5. Data Weighting and Analysis

5.1 Data Weighting

Because the sample is allocated disproportionately to the provincial representation, weights are required to restore population representation. The weights for the CAS sample are based on 252 population classes based on 21 regional strata (variable = strata) by 6 age groups and by sex (Table 5.1).

Table 5.1. Regional strata, age groups and sex variables (used for weights calculation)

Calculation		
STRATA (21 regional strata)	AGE	SEX
1. St-John's CMA (Newfoundland)	15 to 24 years old	Men
2. Other in Newfoundland	25 to 34 years old	Women
	35 to 44 years old	
3. Charlottetown CMA	45 to 54 years old	
4. Other in Prince-Edward-Island	55 to 64 years old	
	65 years and older	
5. Halifax CMA		
6. Other in Nova-Scotia		
7. St-John (NB.) CMA and Moncton CMA		
8. Other in New-Brunswick		
9. Montreal CMA and Quebec CMA		
10. Other in Quebec		
11. Ottawa CMA and Toronto CMA		
12. Other in Ontario		
13. Winnipeg CMA		
14. Other in Manitoba		
45 Carlata a 2000 a 15 1 2000		
15. Saskatoon CMA and Regina CMA		
16. Other Saskatchewan		
17 Calgary CMA		
17. Calgary CMA 18. Edmonton CMA		
19. Other in Alberta		
19. Other III Alberta		
20. Vancouver CMA		
21. Other in British-Colombia		
21. Other III Diffusif-Colombia		

5.2 Guidelines for Analysis and Release

Sample designs employing complex sampling procedures, such as stratification, weighting and multistage selection, tend to underestimate the variance (or error) of estimates when simple random sampling (SRS) formulas are used. The implication of using SRS formulas on estimates from complex sampling designs is that we are likely to create a more narrow confidence interval than truly exists. We will therefore be more likely to find a greater number of statistically significant differences than ought to exist. The Deff is a measure which can be used to crudely adjust for this problem. It is essentially the ratio of the variance of an estimate derived from the particular sampling design over the variance of the same estimate of an SRS of the same size. A Deff of 1.0 indicates that the variance of a given sample design is equivalent to the variance of a SRS. Most complex designs, however, tend to have Deffs larger than one. The adjustment can also be seen as reducing the size of the sample; thus, if the sample size is 10,000, a Deff of 3.0 would reduce our sample to an equivalent SRS, or effective sample size, of 3,0001 (i.e., 10,000/3.0). Because each estimate has a unique Deff, attempts to use an average Deff to downweight the sample to an effective sample size is not feasible. See Kish (1965) or Lee et al. (1989) for an elaboration of Deffs.

In the CAS design, the Deffs are primarily influenced by the two-stage selection and the disproportional sampling fractions related to equal provincial allocations. As seen in Table 3, the CAS generally has a Deff of about 3.4, although this can vary by various outcomes and subgroups.

If the particular research question involves inference to the total population of Canadians aged 15 and older (e.g., epidemiological estimates of drinking or drug use), the investigator must employ weights. If the research question does not require a probability sample, the requirement of weighting can be relaxed (see Groves 1989: 279-294, for a discussion on this matter). If a probability sample is a necessary component of the analysis, the following MUST be applied when using CAS data.

In order to provide proper estimates of variance, confidence intervals and statistical tests, appropriate computer software that corrects for the complex sampling design must be used (e.g., SUDDAN, Stata, Epiinfo, and special modules found in SPSS (Complex Sampling) and SAS).

The CAS design variables for statistical analysis are as follows:

Weight variable = XWGT PSU/Cluster variable = IDNUM Stratification variable = STRATA

For exploratory analysis purposes, a relative weight variable (RWGT) is also included in the microdata file.

5.3 Reliability and Suppression

Small estimates (e.g., small percentages) based on a small number of respondents can produce, not only wide confidence intervals, but unstable estimates.

The relative standard error or the coefficient of variation (CV) should be employed to identify unstable estimates (see Tables 6.1-6.4).

There are two aspects to the statistical quality of survey data: precision - typically measured by the 95% confidence interval (CI), and stability - typically measured by the ratio of the standard error to its estimate. Confidence intervals indicate the probable error of a given survey estimate; thus, a $\pm 0.8\%$ 95% CI (based on the total CAS sample of 13,909 ($\pm 2.8\%$ assuming a Deff of 3.4) with a percentage estimate of 50% indicates that with repeated sampling, 95% of the samples would contain the true population estimate. Confidence intervals, however, do not reflect total errors or accuracy, but reflect errors due to the fact that we are surveying only a sample of the total population. Errors as measured by confidence intervals do not include nonsampling errors such as question nonresponse, problems of respondent memory and recall, interviewer effects, sensitivity of questions, underreporting of drug use, and the like. Thus, the reader should always bear in mind that the "precision" of an estimate, as indicated by the confidence interval, is not synonymous with "total accuracy" of an estimate.

The ratio of the standard error to its estimate is a measure especially useful when comparing the precision of different estimates based on different sample sizes and different measures. The criteria for the suppression for CAS data is based on the coefficient of variation (CV).

Guidelines for data suppression based on the CV are as follows:

CV range	Estimate stability
0-16.5	Estimate stable
16.6-33.3	Estimate has moderate sampling variability and should be interpreted with caution
33.3+	Estimate unstable and should be suppressed

As seen in Table 6.1, for the total CAS sample of 13,909 respondents, estimates as low as 0.5% are reportable without suppression, and estimates as low as 4% are reportable without suppression provincially.

Table 6.1 Coefficient of Variation Values by Percentage Estimate and CAS Sample Size

CAS Sample size		Percentage	e Estimat	e											
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
Total	13909	12	8.4	6.9	5.9	5.3	4.8	4.5	4.2	3.7	3.4	3.1			
Sex															
Men	5721	<mark>18.7</mark>	13.2	10.7	9.3	8.3	7.5	6.9	6.5	5.8	5.2	4.8			
Women	8188	15.6	11	9	7.7	6.9	6.3	5.8	5.4	4.8	4.4	4			
Age															
15-17	581	58.6	41.3	33.6	<mark>29.1</mark>	<mark>25.9</mark>	<mark>23.6</mark>	<mark>21.8</mark>	<mark>20.3</mark>	<mark>18.1</mark>	16.4	15.1	14.1	13.2	12.5
18-19	439	67.4	47.5	38.7	33.4	<mark>29.8</mark>	<mark>27.2</mark>	<mark>25.1</mark>	<mark>23.4</mark>	<mark>20.8</mark>	<mark>18.9</mark>	<mark>17.4</mark>	16.2	15.2	14.3
20-24	1065	43.2	<mark>30.5</mark>	<mark>24.8</mark>	<mark>21.5</mark>	<mark>19.1</mark>	<mark>17.4</mark>	16.1	15	13.4	12.1	11.2	10.4	9.7	9.2
25-34	2342	<mark>29.2</mark>	<mark>20.6</mark>	<mark>16.7</mark>	14.5	12.9	11.8	10.9	10.1	9	8.2	7.5	7	6.6	6.2
35-44	2720	<mark>27.1</mark>	<mark>19.1</mark>	15.5	13.4	12	10.9	10.1	9.4	8.4	7.6	7	6.5	6.1	5.8
45-54	2706	<mark>27.1</mark>	<mark>19.1</mark>	15.6	13.5	12	10.9	10.1	9.4	8.4	7.6	7	6.5	6.1	5.8
55-64	1853	32.8	23.1	18.8	16.3	14.5	13.2	12.2	11.4	10.1	9.2	8.5	7.9	7.4	7
65-74	1179	41.1	<mark>29</mark>	<mark>23.6</mark>	<mark>20.4</mark>	18.2	16.6	15.3	14.3	12.7	11.5	10.6	9.9	9.3	8.7
75+	719	52.6	37.1	30.2	<mark>26.1</mark>	<mark>23.3</mark>	<mark>21.2</mark>	<mark>19.6</mark>	<mark>18.3</mark>	16.3	14.8	13.6	12.7	11.9	11.2
Province															
Newfoundland	1001	44.6	<mark>31.5</mark>	<mark>25.6</mark>	22.1	<mark>19.7</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Prince Edward Island	1000	44.6	<mark>31.5</mark>	<mark>25.6</mark>	22.1	<mark>19.8</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Nova Scotia	1002	44.6	<mark>31.4</mark>	<mark>25.6</mark>	22.1	<mark>19.7</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
New Brunswick	1000	44.6	<mark>31.5</mark>	<mark>25.6</mark>	<mark>22.1</mark>	<mark>19.8</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Quebec	1003	44.6	<mark>31.4</mark>	<mark>25.6</mark>	<mark>22.1</mark>	<mark>19.7</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10	9.5
Ontario	1000	44.6	<mark>31.5</mark>	<mark>25.6</mark>	22.1	<mark>19.8</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Manitoba	1502	36.4	<mark>25.7</mark>	<mark>20.9</mark>	<mark>18.1</mark>	16.1	14.7	13.6	12.6	11.3	10.2	9.4	8.8	8.2	7.7
Saskatchewan	1000	44.6	<mark>31.5</mark>	<mark>25.6</mark>	22.1	<mark>19.8</mark>	<mark>18</mark>	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Alberta	2401	<mark>28.8</mark>	<mark>20.3</mark>	16.5	14.3	12.7	11.6	10.7	10	8.9	8.1	7.4	6.9	6.5	6.1

CAS Sample size	I	Percentage	e Estimat	e											
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
British Columbia	3000	<mark>25.8</mark>	<mark>18.2</mark>	14.8	12.8	11.4	10.4	9.6	8.9	8	7.2	6.7	6.2	5.8	5.5
Marital status															
Never married	3632	<mark>23.4</mark>	16.5	13.4	11.6	10.4	9.4	8.7	8.1	7.2	6.6	6	5.6	5.3	5
Married	7930	15.8	11.2	9.1	7.9	7	6.4	5.9	5.5	4.9	4.4	4.1	3.8	3.6	3.4
Prev. married	2253	<mark>29.7</mark>	21	17.1	14.8	13.2	12	11.1	10.3	9.2	8.3	7.7	7.1	6.7	6.3
Education															
<high school<="" td=""><td>2471</td><td><mark>28.4</mark></td><td><mark>20</mark></td><td>16.3</td><td>14.1</td><td>12.6</td><td>11.4</td><td>10.6</td><td>9.9</td><td>8.8</td><td>8</td><td>7.3</td><td>6.8</td><td>6.4</td><td>6</td></high>	2471	<mark>28.4</mark>	<mark>20</mark>	16.3	14.1	12.6	11.4	10.6	9.9	8.8	8	7.3	6.8	6.4	6
Completed HS	3926	<mark>22.5</mark>	15.9	12.9	11.2	10	9.1	8.4	7.8	7	6.3	5.8	5.4	5.1	4.8
Some post-sec	4267	<mark>21.6</mark>	15.2	12.4	10.7	9.6	8.7	8	7.5	6.7	6.1	5.6	5.2	4.9	4.6
Univ. Degree	3146	<mark>25.2</mark>	<mark>17.7</mark>	14.4	12.5	11.1	10.1	9.4	8.7	7.8	7.1	6.5	6	5.7	5.3
Income															
>\$30,000	2150	<mark>30.4</mark>	<mark>21.5</mark>	<mark>17.5</mark>	15.1	13.5	12.3	11.3	10.6	9.4	8.5	7.9	7.3	6.9	6.5
\$30,000-\$49,000	2178	<mark>30.2</mark>	<mark>21.3</mark>	<mark>17.4</mark>	15	13.4	12.2	11.3	10.5	9.3	8.5	7.8	7.3	6.8	6.4
\$50,000-\$79,000	2461	<mark>28.4</mark>	<mark>20.1</mark>	16.3	14.1	12.6	11.5	10.6	9.9	8.8	8	7.3	6.8	6.4	6
\$80,000+	3179	<mark>25</mark>	<mark>17.6</mark>	14.4	12.4	11.1	10.1	9.3	8.7	7.7	7	6.5	6	5.6	5.3
DK/REF	3941	<mark>22.5</mark>	15.9	12.9	11.2	9.9	9.1	8.4	7.8	6.9	6.3	5.8	5.4	5.1	4.8

Note: Green (dark shaded) entries represent unstable estimates; Yellow (light shaded) entries represent estimates with moderate sampling variability; Unshaded entries represent estimates with acceptable reliability.

CV assume simple random sampling

Table 6.2 Panel A - Coefficient of Variation Values by Percentage Estimate and Sample Size

PANEL A (sample size)							Per	centage	Estimate	<u> </u>					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
Total	4612	20.8	14.7	11.9	10.3	9.2	8.4	7.7	7.2	6.4	5.8	5.4			
Sex															
Men	1928	32.1	<mark>22.7</mark>	<mark>18.5</mark>	15.9	14.2	13	12	11.2	9.9	9	8.3			
Women	2684	<mark>27.2</mark>	<mark>19.2</mark>	15.6	13.5	12.1	11	10.1	9.5	8.4	7.6	7			
Age															
15-17	201	99.7	70.4	57.3	49.5	44.2	40.2	37.1	34.6	30.8	<mark>28</mark>	25.8	<mark>24</mark>	<mark>22.5</mark>	21.2
18-19	141	119.2	84.1	68.5	59.2	52.8	48.1	44.4	41.4	36.8	33.5	<mark>30.8</mark>	<mark>28.7</mark>	<mark>26.9</mark>	<mark>25.4</mark>
20-24	349	75.6	53.3	43.4	37.5	33.5	<mark>30.5</mark>	<mark>28.1</mark>	<mark>26.3</mark>	<mark>23.4</mark>	21.2	19.5	18.2	<mark>17</mark>	16.1
25-34	796	<mark>50</mark>	35.3	<mark>28.7</mark>	<mark>24.8</mark>	22.1	20.2	18.6	<mark>17.4</mark>	15.5	14	12.9	12	11.3	10.6
35-44	882	47.5	33.5	<mark>27.3</mark>	<mark>23.6</mark>	<mark>21</mark>	<mark>19.2</mark>	<mark>17.7</mark>	16.5	14.7	13.3	12.3	11.4	10.7	10.1
45-54	906	46.9	33.1	<mark>26.9</mark>	<mark>23.3</mark>	<mark>20.8</mark>	18.9	<mark>17.5</mark>	16.3	14.5	13.2	12.1	11.3	10.6	10
55-64	635	<mark>56</mark>	39.5	<mark>32.2</mark>	<mark>27.8</mark>	<mark>24.8</mark>	<mark>22.6</mark>	<mark>20.9</mark>	<mark>19.5</mark>	<mark>17.3</mark>	15.7	14.5	13.5	12.6	11.9
65-74	372	73.2	51.7	42.1	36.3	<mark>32.4</mark>	<mark>29.5</mark>	<mark>27.3</mark>	<mark>25.4</mark>	<mark>22.6</mark>	<mark>20.5</mark>	18.9	<mark>17.6</mark>	16.5	15.6
75+	231	<mark>93</mark>	65.6	53.4	46.2	41.2	37.5	34.6	<mark>32.3</mark>	<mark>28.7</mark>	<mark>26.1</mark>	<mark>24</mark>	<mark>22.4</mark>	<mark>21</mark>	<mark>19.8</mark>
Province															
Newfoundland	317	79.4	<mark>56</mark>	45.6	39.4	35.1	<mark>32</mark>	<mark>29.5</mark>	<mark>27.6</mark>	<mark>24.5</mark>	<mark>22.3</mark>	<mark>20.5</mark>	<mark>19.1</mark>	<mark>17.9</mark>	<mark>16.9</mark>
Prince Edward Island	353	75.2	53	43.2	37.3	33.3	30.3	<mark>28</mark>	<mark>26.1</mark>	23.2	<mark>21.1</mark>	19.4	18.1	16.9	16
Nova Scotia	334	77.3	54.5	44.4	38.4	34.2	31.2	<mark>28.8</mark>	<mark>26.8</mark>	23.9	<mark>21.7</mark>	<mark>20</mark>	18.6	<mark>17.4</mark>	16.4
New Brunswick	314	79.7	56.2	45.8	39.6	35.3	32.1	<mark>29.7</mark>	<mark>27.7</mark>	<mark>24.6</mark>	<mark>22.4</mark>	20.6	19.2	18	<mark>17</mark>
Quebec	337	77	54.3	44.2	38.2	34.1	<mark>31</mark>	<mark>28.6</mark>	<mark>26.7</mark>	23.8	<mark>21.6</mark>	19.9	18.5	17.3	16.4
Ontario	340	76.6	<mark>54</mark>	44	38	33.9	30.9	<mark>28.5</mark>	<mark>26.6</mark>	<mark>23.7</mark>	<mark>21.5</mark>	19.8	18.4	17.3	16.3
Manitoba	478	64.6	45.6	37.1	32.1	28.6	<mark>26</mark>	<mark>24</mark>	<mark>22.4</mark>	20	<mark>18.1</mark>	<mark>16.7</mark>	15.5	14.6	13.7
Saskatchewan	329	77.9	54.9	44.7	38.7	34.5	<mark>31.4</mark>	<mark>29</mark>	27.1	<mark>24.1</mark>	<mark>21.9</mark>	20.1	<mark>18.7</mark>	<mark>17.6</mark>	<mark>16.6</mark>
Alberta	811	<mark>49.6</mark>	35	<mark>28.5</mark>	<mark>24.6</mark>	<mark>21.9</mark>	<mark>20</mark>	<mark>18.4</mark>	<mark>17.2</mark>	15.3	13.9	12.8	11.9	11.2	10.5

PANEL A (sample size)							Perd	centage	Estimate)					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
British Columbia	999	44.7	<mark>31.5</mark>	<mark>25.7</mark>	22.2	19.8	18	<mark>16.6</mark>	15.5	13.8	12.5	11.5	10.7	10.1	9.5
Marital status															
Never married	1233	40.2	<mark>28.3</mark>	<mark>23.1</mark>	<mark>19.9</mark>	<mark>17.8</mark>	16.2	15	14	12.4	11.3	10.4	9.7	9.1	8.5
Married	2593	<mark>27.7</mark>	<mark>19.5</mark>	15.9	13.7	12.3	11.2	10.3	9.6	8.6	7.8	7.2	6.7	6.2	5.9
Prev. married	749	<mark>51.6</mark>	36.4	<mark>29.6</mark>	<mark>25.6</mark>	<mark>22.8</mark>	<mark>20.8</mark>	<mark>19.2</mark>	<mark>17.9</mark>	15.9	14.5	13.3	12.4	11.6	11
Education															
<high school<="" td=""><td>826</td><td>49.1</td><td>34.6</td><td><mark>28.2</mark></td><td><mark>24.4</mark></td><td><mark>21.7</mark></td><td><mark>19.8</mark></td><td><mark>18.3</mark></td><td><mark>17.1</mark></td><td>15.2</td><td>13.8</td><td>12.7</td><td>11.8</td><td>11.1</td><td>10.4</td></high>	826	49.1	34.6	<mark>28.2</mark>	<mark>24.4</mark>	<mark>21.7</mark>	<mark>19.8</mark>	<mark>18.3</mark>	<mark>17.1</mark>	15.2	13.8	12.7	11.8	11.1	10.4
Completed HS	1298	39.2	<mark>27.6</mark>	<mark>22.5</mark>	<mark>19.4</mark>	<mark>17.3</mark>	15.8	14.6	13.6	12.1	11	10.1	9.4	8.8	8.3
Some post-sec	1395	37.8	<mark>26.6</mark>	<mark>21.7</mark>	<mark>18.7</mark>	<mark>16.7</mark>	15.2	14.1	13.1	11.7	10.6	9.8	9.1	8.5	8
Univ. Degree	1057	<mark>43.4</mark>	<mark>30.6</mark>	<mark>24.9</mark>	<mark>21.5</mark>	<mark>19.2</mark>	<mark>17.5</mark>	16.2	15.1	13.4	12.2	11.2	10.4	9.8	9.2
Income															
>\$30,000	725	52.4	<mark>37</mark>	<mark>30.1</mark>	<mark>26</mark>	<mark>23.2</mark>	<mark>21.1</mark>	<mark>19.5</mark>	<mark>18.2</mark>	16.2	14.7	13.5	12.6	11.8	11.1
\$30,000-\$49,000	721	52.6	37.1	<mark>30.2</mark>	<mark>26.1</mark>	<mark>23.3</mark>	<mark>21.2</mark>	<mark>19.6</mark>	<mark>18.3</mark>	16.2	14.8	13.6	12.6	11.9	11.2
\$50,000-\$79,000	798	<mark>50</mark>	35.2	<mark>28.7</mark>	<mark>24.8</mark>	22.1	20.1	18.6	17.4	15.4	14	12.9	12	11.3	10.6
\$80,000+	1075	43	<mark>30.4</mark>	<mark>24.7</mark>	<mark>21.4</mark>	<mark>19.1</mark>	<mark>17.4</mark>	16	14.9	13.3	12.1	11.1	10.3	9.7	9.2
DK/REF	1293	39.2	<mark>27.7</mark>	<mark>22.5</mark>	<mark>19.5</mark>	<mark>17.4</mark>	15.8	14.6	13.6	12.1	11	10.1	9.4	8.8	8.3

Note: Green (dark shaded) entries represent unstable estimates; Yellow (light shaded) entries represent estimates with moderate sampling variability; Unshaded entries represent estimates with acceptable reliability. CVs assume simple random sampling

Table 6.3 Panel B - Coefficient of Variation Values by Percentage Estimate and Sample Size

PANEL B sample size							Perd	centage	Estimate)					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
Total	4639	20.7	14.6	11.9	10.3	9.2	8.3	7.7	7.2	6.4	5.8	5.4			
Sex															
Men	1853	<mark>32.8</mark>	<mark>23.1</mark>	<mark>18.8</mark>	16.3	14.5	13.2	12.2	11.4	10.1	9.2	8.5			
Women	2786	26.7	18.9	15.4	13.3	11.8	10.8	9.9	9.3	8.3	7.5	6.9			
Age															
15-17	195	101.3	71.4	58.2	5 0.3	44.8	40.8	37.7	35.2	<mark>31.3</mark>	<mark>28.4</mark>	<mark>26.2</mark>	<mark>24.3</mark>	<mark>22.8</mark>	<mark>21.5</mark>
18-19	143	118.4	83.5	<mark>68</mark>	58.7	52.4	47.7	44.1	41.1	36.6	<mark>33.2</mark>	<mark>30.6</mark>	<mark>28.5</mark>	<mark>26.7</mark>	<mark>25.2</mark>
20-24	357	74.8	<mark>52.7</mark>	42.9	37.1	<mark>33.1</mark>	<mark>30.1</mark>	<mark>27.8</mark>	<mark>26</mark>	<mark>23.1</mark>	<mark>21</mark>	<mark>19.3</mark>	<mark>18</mark>	<mark>16.9</mark>	15.9
25-34	778	50.6	35.7	<mark>29.1</mark>	<mark>25.1</mark>	<mark>22.4</mark>	<mark>20.4</mark>	<mark>18.8</mark>	<mark>17.6</mark>	15.6	14.2	13.1	12.2	11.4	10.8
35-44	914	46.7	<mark>32.9</mark>	<mark>26.8</mark>	<mark>23.2</mark>	<mark>20.7</mark>	<mark>18.8</mark>	<mark>17.4</mark>	16.2	14.4	13.1	12.1	11.2	10.5	9.9
45-54	930	46.3	<mark>32.6</mark>	<mark>26.6</mark>	<mark>23</mark>	<mark>20.5</mark>	<mark>18.7</mark>	<mark>17.2</mark>	16.1	14.3	13	12	11.1	10.4	9.8
55-64	584	58.4	41.2	33.6	<mark>29</mark>	<mark>25.9</mark>	<mark>23.6</mark>	<mark>21.7</mark>	<mark>20.3</mark>	<mark>18.1</mark>	16.4	15.1	14	13.2	12.4
65-74	383	72.2	50.9	41.5	35.8	<mark>32</mark>	<mark>29.1</mark>	<mark>26.9</mark>	25.1	22.3	20.3	18.6	17.4	16.3	15.3
75+	246	90.1	63.6	51.8	44.7	39.9	36.3	33.5	<mark>31.3</mark>	<mark>27.8</mark>	<mark>25.3</mark>	<mark>23.3</mark>	<mark>21.7</mark>	20.3	<mark>19.2</mark>
Province															
Newfoundland	345	76.1	53.6	43.7	37.7	33.7	<mark>30.7</mark>	<mark>28.3</mark>	<mark>26.4</mark>	<mark>23.5</mark>	<mark>21.3</mark>	<mark>19.7</mark>	18.3	17.1	16.2
Prince Edward Island	325	78.4	55.3	<mark>45</mark>	38.9	34.7	<mark>31.6</mark>	<mark>29.2</mark>	<mark>27.2</mark>	<mark>24.2</mark>	<mark>22</mark>	<mark>20.2</mark>	<mark>18.8</mark>	<mark>17.7</mark>	<mark>16.7</mark>
Nova Scotia	336	77.1	<mark>54.4</mark>	44.3	38.2	34.1	<mark>31.1</mark>	<mark>28.7</mark>	<mark>26.8</mark>	<mark>23.8</mark>	<mark>21.6</mark>	<mark>19.9</mark>	<mark>18.5</mark>	<mark>17.4</mark>	16.4
New Brunswick	322	78.7	55.5	45.2	39.1	34.9	<mark>31.7</mark>	<mark>29.3</mark>	<mark>27.3</mark>	<mark>24.3</mark>	<mark>22.1</mark>	<mark>20.3</mark>	<mark>18.9</mark>	<mark>17.7</mark>	<mark>16.7</mark>
Quebec	329	77.9	54.9	<mark>44.7</mark>	38.7	34.5	<mark>31.4</mark>	<mark>29</mark>	<mark>27.1</mark>	<mark>24.1</mark>	<mark>21.9</mark>	<mark>20.1</mark>	<mark>18.7</mark>	<mark>17.6</mark>	<mark>16.6</mark>
Ontario	313	79.9	56.3	<mark>45.9</mark>	39.6	35.4	<mark>32.2</mark>	<mark>29.7</mark>	<mark>27.7</mark>	<mark>24.7</mark>	<mark>22.4</mark>	<mark>20.6</mark>	<mark>19.2</mark>	<mark>18</mark>	<mark>17</mark>
Manitoba	512	62.4	44	35.8	<mark>31</mark>	<mark>27.6</mark>	<mark>25.2</mark>	<mark>23.2</mark>	<mark>21.7</mark>	<mark>19.3</mark>	<mark>17.5</mark>	16.1	15	14.1	13.3
Saskatchewan	345	76.1	53.6	43.7	37.7	33.7	<mark>30.7</mark>	<mark>28.3</mark>	<mark>26.4</mark>	<mark>23.5</mark>	<mark>21.3</mark>	<mark>19.7</mark>	<mark>18.3</mark>	17.1	16.2
Alberta	797	50	35.3	<mark>28.7</mark>	<mark>24.8</mark>	22.1	20.2	18.6	<mark>17.4</mark>	15.4	14	12.9	12	11.3	10.6

PANEL B sample size							Perc	centage	Estimate)					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
British Columbia	1015	44.3	31.2	25.4	<mark>22</mark>	19.6	17.9	16.5	15.4	13.7	12.4	11.4	10.6	10	9.4
Marital status															
Never married	1201	40.7	<mark>28.7</mark>	<mark>23.4</mark>	<mark>20.2</mark>	<mark>18</mark>	16.4	15.2	14.1	12.6	11.4	10.5	9.8	9.2	8.7
Married	2655	27.4	<mark>19.3</mark>	15.7	13.6	12.1	11	10.2	9.5	8.5	7.7	7.1	6.6	6.2	5.8
Prev. married	750	<mark>51.5</mark>	36.4	<mark>29.6</mark>	<mark>25.6</mark>	<mark>22.8</mark>	20.8	<mark>19.2</mark>	<mark>17.9</mark>	15.9	14.5	13.3	12.4	11.6	11
Education															
<high school<="" td=""><td>830</td><td><mark>49</mark></td><td>34.6</td><td><mark>28.1</mark></td><td><mark>24.3</mark></td><td><mark>21.7</mark></td><td><mark>19.7</mark></td><td><mark>18.2</mark></td><td><mark>17</mark></td><td>15.1</td><td>13.7</td><td>12.7</td><td>11.8</td><td>11</td><td>10.4</td></high>	830	<mark>49</mark>	34.6	<mark>28.1</mark>	<mark>24.3</mark>	<mark>21.7</mark>	<mark>19.7</mark>	<mark>18.2</mark>	<mark>17</mark>	15.1	13.7	12.7	11.8	11	10.4
Completed HS	1269	39.6	<mark>27.9</mark>	<mark>22.8</mark>	<mark>19.7</mark>	<mark>17.5</mark>	16	14.7	13.8	12.2	11.1	10.2	9.5	8.9	8.4
Some post-sec	1472	36.8	<mark>25.9</mark>	<mark>21.1</mark>	<mark>18.3</mark>	16.3	14.8	13.7	12.8	11.4	10.3	9.5	8.8	8.3	7.8
Univ. Degree	1038	43.8	30.9	<mark>25.2</mark>	<mark>21.7</mark>	<mark>19.4</mark>	<mark>17.7</mark>	16.3	15.2	13.5	12.3	11.3	10.5	9.9	9.3
Income															
>\$30,000	698	53.4	37.7	<mark>30.7</mark>	<mark>26.5</mark>	<mark>23.7</mark>	<mark>21.5</mark>	<mark>19.9</mark>	<mark>18.6</mark>	16.5	15	13.8	12.8	12	11.4
\$30,000-\$49,000	709	<mark>53</mark>	37.4	<mark>30.5</mark>	<mark>26.3</mark>	<mark>23.5</mark>	<mark>21.4</mark>	<mark>19.7</mark>	<mark>18.4</mark>	16.4	14.9	13.7	12.7	12	11.3
\$50,000-\$79,000	835	48.8	34.5	<mark>28.1</mark>	<mark>24.2</mark>	<mark>21.6</mark>	<mark>19.7</mark>	18.2	<mark>17</mark>	15.1	13.7	12.6	11.7	11	10.4
\$80,000+	1085	42.8	30.2	<mark>24.6</mark>	<mark>21.3</mark>	<mark>19</mark>	17.3	15.9	14.9	13.2	12	11.1	10.3	9.7	9.1
DK/REF	1312	<mark>39</mark>	<mark>27.5</mark>	<mark>22.4</mark>	<mark>19.3</mark>	<mark>17.2</mark>	15.7	14.5	13.5	12	10.9	10.1	9.4	8.8	8.3

Note: Green (dark shaded) entries represent unstable estimates; Yellow (light shaded) entries represent estimates with moderate sampling variability; Unshaded entries represent estimates with acceptable reliability. CVs assume simple random sampling

Table 6.4 Panel C - Coefficient of Variation Values by Percentage Estimate and Sample Size

ANEL C sample size							Perd	centage	Estimate)					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
Total	4658	<mark>20.7</mark>	146	11.9	10.2	0.2	0.2	7.7	7.2	6.4	5.8	<i>E</i> 2			
Total	4000	20.7	14.6	11.9	10.3	9.2	8.3	7.7	1.2	6.4	5.6	5.3			
Sex															
Men	1940	<mark>32</mark>	<mark>22.6</mark>	<mark>18.4</mark>	15.9	14.2	12.9	11.9	11.1	9.9	9	8.3			
Women	2718	<mark>27.1</mark>	<mark>19.1</mark>	15.5	13.4	12	10.9	10.1	9.4	8.4	7.6	7			
Age															
15-17	185	104	73.4	59.7	<mark>51.6</mark>	<mark>46</mark>	41.9	38.7	36.1	<mark>32.1</mark>	<mark>29.2</mark>	<mark>26.9</mark>	<mark>25</mark>	<mark>23.4</mark>	<mark>22.1</mark>
18-19	155	113.7	80.2	65.3	<mark>56.4</mark>	50.3	45.8	42.3	39.5	35.1	<mark>31.9</mark>	<mark>29.4</mark>	<mark>27.3</mark>	<mark>25.6</mark>	<mark>24.2</mark>
20-24	359	<mark>74.6</mark>	52.6	42.8	<mark>37</mark>	<mark>33</mark>	<mark>30.1</mark>	<mark>27.8</mark>	<mark>25.9</mark>	<mark>23</mark>	<mark>20.9</mark>	<mark>19.3</mark>	<mark>17.9</mark>	<mark>16.8</mark>	15.9
25-34	768	50.9	35.9	<mark>29.3</mark>	<mark>25.3</mark>	<mark>22.5</mark>	<mark>20.5</mark>	<mark>19</mark>	<mark>17.7</mark>	15.7	14.3	13.2	12.2	11.5	10.8
35-44	924	46.4	32.8	<mark>26.7</mark>	<mark>23</mark>	<mark>20.6</mark>	<mark>18.7</mark>	<mark>17.3</mark>	16.1	14.3	13	12	11.2	10.5	9.9
45-54	870	47.9	33.8	<mark>27.5</mark>	<mark>23.7</mark>	<mark>21.2</mark>	<mark>19.3</mark>	<mark>17.8</mark>	16.6	14.8	13.4	12.4	11.5	10.8	10.2
55-64	634	56.1	39.5	32.2	<mark>27.8</mark>	<mark>24.8</mark>	<mark>22.6</mark>	20.9	<mark>19.5</mark>	<mark>17.3</mark>	15.7	14.5	13.5	12.6	11.9
65-74	424	68.6	48.4	<mark>39.4</mark>	<mark>34</mark>	<mark>30.4</mark>	<mark>27.6</mark>	<mark>25.5</mark>	<mark>23.8</mark>	<mark>21.2</mark>	<mark>19.2</mark>	<mark>17.7</mark>	16.5	15.5	14.6
75+	242	90.9	<mark>64.1</mark>	52.2	<mark>45.1</mark>	40.2	36.6	33.8	<mark>31.6</mark>	<mark>28.1</mark>	<mark>25.5</mark>	<mark>23.5</mark>	<mark>21.8</mark>	<mark>20.5</mark>	<mark>19.3</mark>
Province															
Newfoundland	339	<mark>76.7</mark>	54.1	44.1	38.1	<mark>34</mark>	<mark>30.9</mark>	<mark>28.6</mark>	<mark>26.6</mark>	<mark>23.7</mark>	<mark>21.5</mark>	<mark>19.8</mark>	<mark>18.4</mark>	<mark>17.3</mark>	16.3
Prince Edward Island	322	78.7	55.5	45.2	39.1	34.9	<mark>31.7</mark>	<mark>29.3</mark>	<mark>27.3</mark>	<mark>24.3</mark>	<mark>22.1</mark>	<mark>20.3</mark>	<mark>18.9</mark>	<mark>17.7</mark>	<mark>16.7</mark>
Nova Scotia	332	77.5	54.7	44.5	38.5	34.3	<mark>31.3</mark>	<mark>28.9</mark>	<mark>26.9</mark>	<mark>24</mark>	<mark>21.8</mark>	<mark>20</mark>	<mark>18.6</mark>	<mark>17.5</mark>	16.5
New Brunswick	364	74	52.2	42.5	36.7	32.8	<mark>29.8</mark>	<mark>27.6</mark>	<mark>25.7</mark>	<mark>22.9</mark>	<mark>20.8</mark>	<mark>19.1</mark>	<mark>17.8</mark>	<mark>16.7</mark>	15.7
Quebec	337	77	54.3	44.2	38.2	34.1	<mark>31</mark>	<mark>28.6</mark>	<mark>26.7</mark>	<mark>23.8</mark>	<mark>21.6</mark>	<mark>19.9</mark>	<mark>18.5</mark>	17.3	16.4
Ontario	347	75.8	53.5	43.6	37.6	33.6	<mark>30.6</mark>	<mark>28.2</mark>	<mark>26.3</mark>	<mark>23.4</mark>	<mark>21.3</mark>	<mark>19.6</mark>	18.2	17.1	16.1
Manitoba	512	62.4	44	35.8	<mark>31</mark>	<mark>27.6</mark>	<mark>25.2</mark>	<mark>23.2</mark>	<mark>21.7</mark>	<mark>19.3</mark>	<mark>17.5</mark>	16.1	15	14.1	13.3
Saskatchewan	326	78.3	55.2	45	38.8	34.6	<mark>31.5</mark>	<mark>29.1</mark>	<mark>27.2</mark>	<mark>24.2</mark>	<mark>22</mark>	<mark>20.2</mark>	18.8	<mark>17.6</mark>	16.6
Alberta	793	50.1	35.4	<mark>28.8</mark>	<mark>24.9</mark>	<mark>22.2</mark>	20.2	<mark>18.7</mark>	<mark>17.4</mark>	15.5	14.1	13	12	11.3	10.7

PANEL C sample size							Perd	centage	Estimate	<u> </u>					
		0.5	1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10
British Columbia	986	44.9	31.7	<mark>25.8</mark>	22.3	19.9	18.1	<mark>16.7</mark>	15.6	13.9	12.6	11.6	10.8	10.1	9.6
Marital status															
Never married	1198	40.8	<mark>28.8</mark>	<mark>23.4</mark>	<mark>20.2</mark>	18.1	16.4	15.2	14.2	12.6	11.4	10.5	9.8	9.2	8.7
Married	2682	<mark>27.2</mark>	<mark>19.2</mark>	15.7	13.5	12.1	11	10.1	9.5	8.4	7.6	7	6.5	6.1	5.8
Prev. married	754	<mark>51.4</mark>	36.3	<mark>29.5</mark>	<mark>25.5</mark>	<mark>22.8</mark>	<mark>20.7</mark>	<mark>19.1</mark>	<mark>17.9</mark>	15.9	14.4	13.3	12.4	11.6	10.9
Education															
<high school<="" td=""><td>815</td><td>49.4</td><td>34.9</td><td><mark>28.4</mark></td><td><mark>24.5</mark></td><td><mark>21.9</mark></td><td><mark>19.9</mark></td><td><mark>18.4</mark></td><td><mark>17.2</mark></td><td>15.3</td><td>13.9</td><td>12.8</td><td>11.9</td><td>11.1</td><td>10.5</td></high>	815	49.4	34.9	<mark>28.4</mark>	<mark>24.5</mark>	<mark>21.9</mark>	<mark>19.9</mark>	<mark>18.4</mark>	<mark>17.2</mark>	15.3	13.9	12.8	11.9	11.1	10.5
Completed HS	1359	38.3	<mark>27</mark>	<mark>22</mark>	<mark>19</mark>	<mark>16.9</mark>	15.4	14.2	13.3	11.8	10.7	9.9	9.2	8.6	8.1
Some post-sec	1400	37.7	<mark>26.6</mark>	<mark>21.7</mark>	<mark>18.7</mark>	<mark>16.7</mark>	15.2	14	13.1	11.7	10.6	9.7	9.1	8.5	8
Univ. Degree	1051	43.5	<mark>30.7</mark>	<mark>25</mark>	<mark>21.6</mark>	<mark>19.3</mark>	<mark>17.5</mark>	16.2	15.1	13.5	12.2	11.2	10.5	9.8	9.3
Income															
>\$30,000	727	52.4	36.9	<mark>30.1</mark>	<mark>26</mark>	<mark>23.2</mark>	<mark>21.1</mark>	<mark>19.5</mark>	<mark>18.2</mark>	16.2	14.7	13.5	12.6	11.8	11.1
\$30,000-\$49,000	748	51.6	36.4	<mark>29.6</mark>	<mark>25.6</mark>	<mark>22.8</mark>	<mark>20.8</mark>	19.2	<mark>17.9</mark>	15.9	14.5	13.3	12.4	11.6	11
\$50,000-\$79,000	828	49.1	34.6	<mark>28.2</mark>	<mark>24.3</mark>	<mark>21.7</mark>	<mark>19.8</mark>	<mark>18.3</mark>	<mark>17</mark>	15.2	13.8	12.7	11.8	11.1	10.4
\$80,000+	1019	44.2	<mark>31.2</mark>	<mark>25.4</mark>	<mark>21.9</mark>	<mark>19.6</mark>	<mark>17.8</mark>	16.5	15.4	13.7	12.4	11.4	10.6	10	9.4
DK/REF	1336	38.6	<mark>27.2</mark>	<mark>22.2</mark>	<mark>19.2</mark>	<mark>17.1</mark>	15.6	14.4	13.4	11.9	10.8	10	9.3	8.7	8.2

Note: Green (dark shaded) entries represent unstable estimates; Yellow (light shaded) entries represent estimates with moderate sampling variability; Unshaded entries represent estimates with acceptable reliability. CVs assume simple random sampling

6.0 Data Limitations

Although sample surveys are the most feasible means to establish and monitor substance use issues in the population, those interpreting CAS data should consider the following:

- Telephone households. The CAS is based on a target population of households with telephones. Whether drug use estimates would be significantly biased by projecting to all households depends on the size of non-telephone households and their demographic composition. Fortunately, Canada has high telephone coverage rates exceeding 97% (Trewin & Lee 1988). As well, conventional household surveys are limited to those residing in conventional households and are not intended as a sample of all possible adults. Thus, those in prisons, hospitals, military establishments, and, as well, transient populations such as the homeless, are not included. These excluded groups often contain an especially large number of drug users and heavy drinkers (Rossi 1989). However, the bias caused by such noncoverage depends upon firstly, the difference in drug use between those surveyed and those not surveyed, and secondly, the size of the group missed (Groves & Couper 1998). Thus, even if rates of drug use are substantially higher in the excluded group than are those in the sampled group, if the size of the excluded group is small relative to the total population the bias is usually minimal (see Kandel 1991; Trinkoff et al. 1990). Telephone surveys tend to over-represent those with higher education and under-represent those with lower education (Trewin & Lee 1988).
- Interview Barriers. Some interviews could not be completed because respondents could not adequately converse in English or French or were too ill or aged.
- Self-reports. Survey estimates are influenced by errors related to individual reporting of behaviours and the conditions under which the survey is conducted. One limitation of the sample survey in this regard is its reliance on self-reported behaviour. Reviews of self-report methods for alcohol and drug use suggest that although surveys tend to underestimate true usage, they are still regarded as the best available means to estimate such behaviours (Harrison et al. 1993; Turner et al. 1992). Moreover, although these biases influence alcohol and drug use estimates at a single point in time, they should have less impact on estimating trends as long as underreporting remains constant. If this is the case, estimates of change should remain unbiased and valid.

• Survey differences. As noted below, there are differences in various design and timing factors between the CAS and other national surveys.

Comparison of the CAS to Recent National Addiction Surveys

	CAS 2004	CADS 1994	NADS 1989
Fieldwork	Dec. 16- Dec. 23,	Sept 7 - November 5,	March, 1989
	2003; Jan. 9 - April	1994	
	21, 2004		
Design	Random-digit-dailling	Random-digit-dailling	Random-digit-dailling
	sample of telephone	sample of telephone	sample of telephone
	households. Stratified	households. Stratified	households. Stratified
	two-stage selection.	two-stage selection.	two-stage selection.
Provincial allocation	Equal	Unequal	Unequal
Interview mode	CATI Telephone	CATI Telephone	CATI Telephone
Target population	Ages 15+	Ages 15+	Ages 15+
Completions	13, 909	12,155	11,634
Response rate	47%	76%	79%
Survey organization	Jolicoeur et associés	Statistics Canada	Statistics Canada

The short timetable of the CAS required that interviews were conducted between December 2003 and April 2004. However, to ensure that the data were not seriously biased by the holiday season, interviews were not conducted during a three week period (December 24th-Janurary 8th). It is expected that such seasonal differences would affect alcohol use estimates more than drug use estimates. Indeed, a comparison of eleven key substance use measures (lifetime, 12-month and 30 day alcohol use, monthly and weekly 5+ drinking, AUDIT, lifetime 12-month and 30 day cannabis use and lifetime and 12-month any illicit drug use) showed that three measures - 12-month and 30-day alcohol use and lifetime cannabis use showed higher reports after the holiday period.

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8. APPENDICES

8.1 Derived Variables

Several derived variables have been created on the CAS file. In this section, the methods used to derive the more complex variables and some of the coding structures are described. Some of the derived variables have been grouped for ease of use.

In some cases, the creation of intermediate variables was needed due to the complex structure of the derived variable. These intermediate variables are also listed and documented as much as possible. Also, due to the complexity of the coding structure and analysis requests, for some of the grouped and derived variables, alternatively coded versions have been created. These alternatively coded variables are also listed and documented.

The descriptions of the derived variables below are listed according to topic.

Alcohol Use

ALCSTAT3 Drinking status Alcohol use lifetime **ALCLIFE** ALC12M Alcohol use past 12 months Alcohol use past 30 days ALC30D **QFVOL** Total volume of alcohol consumed in standard drinks in past 12 months **QFVOLWK** Weekly volume of alcohol consumed in standard drinks in past 12 months Daily drinking - past 12 months ALDAILY **FIVEMN** Five or more drinks in a single sitting once a month or more often Five or more drinks in a single sitting once a week or more often **FIVEWK AHEAVYMN** Heavy monthly alcohol use (past 12 months) (5+ men; 4+ women) **AHEAVYWK** Heavy weekly alcohol use (past 12 months) (5+ men; 4+ women) Total standard drinks in past 7 days ALC7D **ALCLEV4** Daily alcohol intake level (past 12 months) LRISKDRK Percent exceeding the low-risk drinking guidelines (past 7 days) ALCSTAT6 Drinking pattern (6 categories) (total sample) Heavy drinking pattern **HEAVYDRK**

Alcohol Use Problems (AUDIT) and Harm

AUDIT

AUDIT score - 8+ cut-off (total sample) AUDIT8 AUDITC AUDIT score for consumption/intake **AUDITD AUDIT** score for dependence AUDITAC **AUDIT** score for adverse consequences AUDITP **AUDIT** score for problems (adverse consequences + dependence) **AHARML** One or more types of harm from one's own alcohol use - lifetime One or more types of harm from one's own alcohol use - past 12m AHARM12 **HARMOTHR** One or more types of harm from others' alcohol use – past 12m

AUDIT total score (total sample)

Cannabis Use

CANLIFE
CAN12M
CAN3M
CAN30D
CAN30D
CAN30D
DRIVCAN
DRIVCAN
CAN30D
Cannabis use past 30 days
Driven a motor vehicle after using cannabis within 2 hours before driving (among valid drivers) (Panel B only)

Cannabis Use Problems (WHO's ASSIST)

ASISTCAN Cannabis ASSIST score

ASISTCN3 Risk level for cannabis consumption (3 categories)
ASISTCN2 Risk level for cannabis consumption (2 categories)

Illicit Drug Use

COCLIFE Cocaine use lifetime

COC12M Cocaine use past 12 months
COC3M Cocaine use past 3 months

SPEDLIFE Speed use lifetime

SPED12M Speed use past 12 months SPED3M Speed use past 3 months

XTCLIFE Ecstasy use lifetime

XTC12M Ecstasy use past 12 months XTC3M Ecstasy use past 3 months

HALLIFE Hallucinogens use lifetime

HAL12M Hallucinogens use past 12 months HAL3M Hallucinogens use past 3 months

INHLIFE Inhalant use lifetime

INH12M Inhalant use past 12 months INH3M Inhalant use past 3 months

HERLIFE Heroin use lifetime

HER12M Heroin use past 12 months HER3M Heroin use past 3 months

STERLIFE Steroid use lifetime

STER12M Steroid use past 12 months STER3M Steroid use past 3 months

Any Illicit Drug Use (grouped variables - different combinations)

ANY8DL Lifetime use (any drug, including cannabis)

ANY8D12 Past 12 months use (any drug including cannabis)
ANY8D3M Past 3 months use (any drug including cannabis)

ANY7DXL Lifetime use (any drug excluding cannabis)

ANY7DX12 Past 12 months use (any drug excluding cannabis)
ANY7DX3M Past 3 months use (any drug excluding cannabis)

IL6DL Lifetime use (any illicit drug including cannabis)

IL6D12 Past 12 months use (any illicit drug including cannabis)

IL5DXL Lifetime use (any illicit drug excluding cannabis)

IL5DX12 Past 12 months use (any illicit drug excluding cannabis)

Illicit Drug Use Problems (WHO's ASSIST) (cannabis not included)

ASISTIL Illicit Drugs ASSIST score

ASISTIL3 Risk level for illicit drug use (3 categories)
ASISTIL2 Risk level for illicit drug use (2 categories)

Harm From Drug Use

DHARML One or more types of harm from one's own drug use – lifetime
DHARM12 One or more types of harm from one's own drug use – past 12m

Smoking (Panel C only)

SMKSTAT3 Smoking status (3 cat)

Health Related Quality of Life Measures (Panel B only)

FAIRMHIT Percent fair or poor health

FAIRMHIT Percent fair or poor mental her

FAIRMHLT Percent fair or poor mental health

UNHLTPD Physically unhealthy days
UNHLTMD Mentally unhealthy days
ACTLIMD Activity limitation days

UNHLTD Sum of unhealthy days (physically & mentally)

MENTDISD Frequent mental distress days

Demographics

AGECAT9 Age recoded in 9 categories
AGECAT3 Age recoded in 3 categories
AGECAT4 Age recoded in 4 categories
AGECAT6 Age recoded in 6 categories
AGECAT7 Age recoded in 7 categories

AGE8CCHS Age recoded in 8 categories (CCHS comparable)
AGE8NPHS Age recoded in 8 categories (NPHS comparable)

EDUCAT4 Highest level of education recoded (4 categories)

MARSTAT3 Marital status recoded (3 categories)
MARSTAT4 Marital status recoded (4 categories)

EMPCAT8 Employment status recoded (8 categories)

PINCOME Personal Income Before Taxes (past year)
HINCOME Household Income Before Taxes (past year)

HINCCAT5 Household Income (5 categories)
INCADEQ4 Income Adequacy (4 categories)
INCADEQ5 Income Adequacy (5 categories)

LANGHOME Language spoken at home RURAL Location of Household

REGION Canada's five regions

1. ALCOHOL DERIVED VARIABLES

1.1. ALCOHOL USE

ALCSTAT3 Drinking status

Based on ALC1 and ALC3

ALCSTAT3=	DESCRIPTION	CONDITION
1	Current drinker (past 12m)	ALC1=1
2	Former drinker	ALC3=1 AND ALC1=5
3	Abstainer (never drank)	ALC3=5 AND ALC1=5

ALCLIFE Alcohol use lifetime (binary)

Based on ALCSTAT3

ALCLIFE=	DESCRIPTION	CONDITION
0	Never used alcohol	ALCSTAT3=3
1	Used alcohol in lifetime	ALCSTAT3=1 OR 2

ALC12M Alcohol use past 12 months (binary)

Based on ALCSTAT3

ALC12M=	DESCRIPTION	CONDITION
0	Not used alcohol past 12 months	ALCSTAT3=2,3
1	Used alcohol past 12 months	ALCSTAT3=1

Note: see alternative coding **DRINKER** (used alcohol past 12m) –same coding, alternative value labels (0=abstainer/former drinker; 1=current drinker).

ALC30D Alcohol use past 30 days (binary)

Based on ALC4

ALC30D=	DESCRIPTION	CONDITION
0	Not used alcohol past 30 days	ALC4=0
1	Used alcohol past 30 days	ALC4=1 through 30 system missing=0

QFVOL Total volume of alcohol consumed in standard drinks in past 12 months.

Estimated using usual quantity by usual frequency approach.

Based on ALC2 and ALC6.

QFVOL = ALC2 (recoded) * ALC6.

Note: ALC2 (frequency of use of alcohol) and related frequency categories are recoded as

follows:

- 7 'every day' = 365 times
- 6 '4 to 6 times a week' = 260 times
- 5 '2 to 3 times a week' = 130 times
- 4 'once a week' = 52 times
- 3 '2 to 3 times a month' =30 times
- 2 'once a month' = 12 times
- 1 'less than once a month' = 6 times
- 0 'non-drinker' = 0

QFVOL =	DESCRIPTION
0 through highest	Total number of standard drinks in past 12 months
9999	Missing

QFVOLWK Weekly volume of alcohol consumed in standard drinks in past 12 months.

Based on QFVOL.

QFVOLWK = QFVOL/52.

QFVOLWK =	DESCRIPTION
0 through highest	Number of standard drinks per week (past 12 months)
9999	Missing

ALDAILY Daily drinking - past 12 months (binary)

Based on ALC2.

ALDAILY=	DESCRIPTION	CONDITION
0	Non-daily /non-drinker past 12 months	ALC2=1 through 6, system missing=0
1	Daily drinker past 12 months	ALC2=7

FIVEMN FIVE or more drinks in a single sitting once a month or more often Based on ALC5.

FIVEMN =	DESCRIPTION	CONDITION
0	No/ non-drinker past 12 months	Never 5+ monthly/ non- drinker
1	Five plus monthly past 12 months	5+ drinks monthly (ALC5=3,4,5, 6)

FIVEWK FIVE or more drinks in a single sitting once a week or more often Based on ALC5.

FIVEWK =	DESCRIPTION	CONDITION
0	No/ non-drinker past 12 months	Never 5+ weekly/ non- drinker
1	Five plus weekly past 12 months	5+ drinks weekly (ALC5=5, 6)

AHEAVYMN Heavy Monthly Alcohol Use (past 12 months)

 $FOUR\ or\ more\ drinks\ (for\ women)\ OR\ FIVE\ or\ more\ drinks\ (for\ men)\ in\ a\ single\ sitting\ once\ a\ month\ or\ more\ often$

Based on ALC5 (men) or ALC5A (women).

AHEAVYMN =	DESCRIPTION	CONDITION	
		Males	Females
0	No/ non-drinker past 12 months	Never 5+ monthly/ non- drinker	Never 4+ monthly/ non- drinker
1	Four or Five plus monthly past 12 months	5+ drinks monthly (ALC5=3 through 6)	4+drinks monthly (ALC5A=3 through 6)

Note: the following intermediate variables **FIVEMNM**, **FOURMNF** were used in the calculation of AHEAVYMN.

AHEAVYWK Heavy Weekly Alcohol Use (past 12 months)

FOUR or more drinks (for women) OR FIVE or more drinks (for men) in a single sitting once a week or more often

Based on ALC5 (men) or ALC5A (women).

AHEAVYWK =	DESCRIPTION	CONDITION	
		Males	Females
0	No/ non-drinker past 12 months	Never 5+ weekly/ non- drinker	Never 4+ weekly/ non- drinker
1	Four or Five plus weekly past 12 months	5+ drinks weekly (ALC5=5,6)	4+drinks weekly (ALC5A=5,6)

ALC7D Total standard drinks in past 7 days

Based on 7 variables AL5A1 to AL5A7 (no. of standard drinks consumed each day in the past 7 days). Variables AL5A1 to AL5A7 have been recoded into 7 intermediate variables **SUN** (standard drinks consumed on Sunday) to **SAT** (standard drinks consumed on Saturday).

ALC7D = summation of variables (SUN, MON, TUE, WED, THUR, FRI, SAT).

ALCLEV4 Daily Alcohol Intake Level ¹ (past 12 months)

Volume of alcohol consumed in a day in standard drinks (1 standard drink=13.6g) in the past 12 months

Based on QFVOL in standard drinks per day, recoded for total sample (adapted in grams of alcohol to match English et al. typology).

ALCLEV4	Standard Drinks per Day (1 standard drink=13.6grams)	
	Males	Females
0= Abstinence	0	0
1= Low	0.01 - 3.00	0.01- 1.50
2= Hazardous	3.01-4.50	1.51-3.00
3= Harmful	4.51 +	3.01+

Note: 1 (see (English 1995))

Note: alternative coding **ALCLEV4R** (3 cat) (0'abstainer' 1'low' 2'haz/harm');

The following intermediate variables **QFVOLG**, **ALCLEV7**, **ALCLEVM**, **ALCLEVF** were used in the calculation of ALCLEV4.

LRISKDRK - EXCEEDING LOW- RISK DRINKING GUIDELINES

Canadian guidelines referring to "low-risk drinking" were disseminated in 1994 following an international conference on health benefits and risks (Ashley, Ferrence et al. 1994). In 1997, revised guidelines were released by the former Addiction Research Foundation (currently CAMH) and the Canadian Centre on Substance Abuse). These guidelines have now been endorsed by various national and provincial government and non-government agencies (Bondy, Rehm et al. 1999). The "low-risk drinking" guidelines (LRD) recommend that men and women limit weekly alcohol intake to no more than 14 and 9 standard drinks, respectively. Also, alcohol intake on any one day should generally be limited to 2 standard drinks. Caution should be taken to avoid intoxication and injury, and circumstances were identified where abstinence may be warranted. The guidelines are intended to represent low risk of the most important forms of harm and to address usual drinking over many years.

LRISKDRK Percent exceeding the low-risk drinking guidelines (past 7 days)

It is based on ALC7D and variables SUN to SAT (recoded into 7 intermediate variables SUN3DK (percent exceeding 3 standard drinks on Sunday) to SAT 3DK (percent exceeding 3 standard drinks on Saturday).

LRISKDRK	DESCRIPTION	CONDITION	
		Males	Females
0	Not exceeding LRD/ non-	14 or less drinks/week	9 or less drinks/week
	drinker past 12 months	AND	AND
		2 or less drinks/day	2 or less drinks/day
1	Exceeding weekly and daily sex	15+ drinks/week	10+ drinks/week
	specific limits past 12 months	3+drinks/day	3+ drinks/day

Note: The following intermediate variables SUNDRK, SATDRK, FRIDRK, THURDRK, WEDDRK, TUESDRK, MONDRK, ALC15WK, ALC10WK, LRDRK, DRK3, ALCLEV4B, ALCLEVG, EQFG, ALC7G, ALC7EM, ALC7EF, QFEM, QFEF, were used in the calculation of LRISKDRK.

ALCSTAT6 Drinking patterns – 6 categories (similar to CADS, 1994 and NADS, 1989)
Based on variables ALCSTAT3, ALC2 and ALC6R.

ALCSTAT6	PATTERN	DESCRIPTION
0	Lifetime abstainers	Never had alcohol
1	Former drinkers	Drank sometime during their lives, but not during the past 12 months preceding the survey
2	Light/infrequent drinkers	Drink less often than once a week, usually fewer than 5 drinks, when alcohol is used
3	Light/frequent drinkers	Drink once a week or more, usually fewer than 5 drinks, when alcohol is used
4	Heavy/infrequent drinkers	Drink less often than once a week, usually 5 or more drinks, when alcohol is used
5	Heavy/frequent drinkers	Drink once a week or more, usually 5 or more drinks, when alcohol is used

Note: see alternative coding

ALCADS6 (0 'abstainer' 1' former drk' 2 'light/infreq' 3 'light/freq' 4'heavy/infreq' 5 'heavy/freq' 9'NS') and **ALCSTAT4** (1 'light/infreq' 2 'light/freq' 3'heavy/infreq' 4 'heavy/freq' 5' former drk' 6 'abstainer')

HEAVYDRK Heavy drinking pattern

(drinking five or more drinks in a single sitting monthly)

Based on ALC5.

Recoded in 3 categories: 1 = never 5+; 2 = 5+ less monthly; 3 = 5+ monthly or more.

1.2. ALCOHOL PROBLEMS - AUDIT (WHO)

$\label{thm:condition} \textbf{Harmful and Hazardous Drinking - based on WHO's Alcohol Use Disorders Identification Test} \\ \textbf{(AUDIT)}$

The World Health Organization has developed a screening instrument - the Alcohol Use Disorders Identification Test (AUDIT) - designed to detect problem drinkers at the less severe end of the spectrum of alcohol (Saunders, Aasland et al. 1993; Babor, Higgins-Biddle et al. 2001). The AUDIT assesses hazardous and harmful drinking. *Hazardous* drinking refers to an established pattern of drinking that increases the likelihood of future physical and mental health problems (e.g., liver disease), whereas *harmful* drinking refers to a pattern of drinking that is already causing damage to health (e.g., alcohol-related injuries; depression). A score of 8 or more is conventionally used as a cut-off point to estimate the percentage who drink at hazardous or harmful levels.

AUDIT, AUDIT8

Derived AUDIT variables (AUDIT, AUDIT8) are based on the following items:

Variable name	AUDIT Items	Recoded category
	Alcohol Intake	
ALC2	1. How often did you drink alcoholic beverages	0. Never
(aud1)	during the past 12 months?	1. Monthly or less
		2. 2-4 times/month
		3. 2-3 times/week
		4. 4+ times/week
ALC6		0. None/ or One
(aud2) do you usually have?		1. Two to Three
		2. Four
		3. Five to Seven
		4. Eight or more
ALC5	6 1	0. Never
(aud3)		1. Less than monthly
		2. Monthly
		3. Weekly
		4. Daily or almost daily
	Dependence Indicators	

AUD5 AUD6 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD8 AUD8 AUD8 AUD8 AUD8 AUD9			
AUD5 AUD6 AUD7 AUD7 AUD7 AUD7 AUD8 AUD8 AUD8 AUD9 AUD8 AUD9	AUD4		0. Never
AUD5 AUD6 AUD6 AUD6 AUD6 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD7 AUD8 AUD8 AUD8 AUD8 AUD8 AUD8 AUD9			1. Less than monthly
AUD5 S. How often during the last year have you failed to do what was normally expected from you because of drinking? 6. How often during the last year have you needed a first alcoholic drink in the morning to get yourself going after a heavy drinking session? AUD6 AUD6 AUD7 AUD7 AUD7 AUD7 AUD7 AUD8 B. How often during the last year have you needed a feeling of guilt or remorse after drinking? AUD7 AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? C. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily D. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily AUD8 AUD9 9. Have you or someone else ever been injured as a result of your drinking? 9. Have you or someone else ever been injured as a result of your drinking? 10. No 2. Yes, but not last year health worker ever been concerned about your drinking or suggested that you cut down?			2. Monthly
AUD5 S. How often during the last year have you failed to do what was normally expected from you because of drinking? AUD6 AUD6 6. How often during the last year have you needed a first alcoholic drink in the morning to get yourself going after a heavy drinking session? Adverse Consequences AUD7 7. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD7 AUD8 8. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 8. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 8. How often during the last year have you been unable to remember what happened the night before because you had been drinking? 9. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily 4. Daily or almost daily 5. Monthly 6. Never 6. Less than monthly 6. Never 7. Less than monthly 7. Less than monthly 8. How often during the last year have you been unable to remember what happened the night before because you had been drinking? 6. Never 7. Less than monthly 7. Less than monthly 8. Weekly 9. Monthly 9. Have you or someone else ever been injured as a result of your drinking? 9. Have you or someone else ever been injured as a result of your drinking? 10. No 10. Has a relative or friend or a doctor or other health worker ever been concerned about your drinking or suggested that you cut down? 10. No 11. Less than monthly 12. Monthly 13. Weekly 14. Daily or almost daily 15. Less than monthly 16. No 17. Less than monthly 17. Less than monthly 18. Weekly 19. AUD9 19. Nover 10. No 10. No 11. Less than monthly 19. Nover 10. No 10. No 11. Less than monthly 11. Less than monthly 12. Weekly 13. Weekly 14. Daily or almost daily 15. Less than monthly 16. No 17. Less than monthly 18. Weekly 19. Noter 19. Nover 1			3. Weekly
AUD7 AUD7 AUD7 AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD9 AUD9 AUD9 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD9 AUD9 P. Have you or someone else ever been injured as result of your drinking? AUD9 AUD10 AUD10 AUD10 AUD10 J. Less than monthly D. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. Never 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily O. No veer 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily			4. Daily or almost daily
AUD6 AUD6 AUD6 AUD6 AUD6 AUD6 AUD7 AUD7 AUD7 AUD7 AUD7 AUD8 AUD8 AUD8 AUD8 AUD8 AUD8 AUD8 AUD8 AUD8 AUD9 AUD9 P. Have you or someone else ever been injured as a result of your drinking? AUD9 AUD9 AUD9 AUD1 AUD9 AUD1 AUD1 AUD9 AUD1 A	AUD5		0. Never
AUD7 AUD7 AUD7 AUD8 B. How often during the last year have you needed a first alcoholic drink in the morning to get yourself going after a heavy drinking session? AUD7 AUD7 AUD7 AUD7 AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you bad a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD8 AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD8 AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily 4. Daily or almost daily AUD9 AUD9 J. Have you or someone else ever been injured as a result of your drinking? 4. Yes, but not last year 4. Yes, during last year 4. Yes, during last year 4. Yes, during last year 4. Yes, but not last year			1. Less than monthly
AUD6 AUD6 6. How often during the last year have you needed a first alcoholic drink in the morning to get yourself going after a heavy drinking session? Adverse Consequences AUD7 7. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD6 AUD7 AUD8 8. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD8 AUD9 9. Have you or someone else ever been injured as a result of your drinking? 9. Have you or someone else ever been injured as a result of your drinking? 10. No 2. Yes, but not last year 4. Yes, during last year 4. Yes, during last year 6. No 6. Yes, but not last year 6. No 6. No 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. Yes, but not last year 6. No 6. No 6. Yes, but not last year 7. How often during the last year doubt your drinking or suggested that you cut down?			2. Monthly
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first alcoholic drink in the morning to get yourself going after a heavy drinking session? A			4. Daily or almost daily
AUD7 AUD7 AUD7 AUD7 AUD8 B. How often during the last year have you had a feeling of guilt or remorse after drinking? AUD8 B. How often during the last year have you been unable to remember what happened the night before because you had been drinking? AUD9 AUD9 AUD9 AUD9 AUD10 AUD10	AUD6		0. Never
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AUD7 AUD7 7. How often during the last year have you had a feeling of guilt or remorse after drinking? 7. How often during the last year have you had a feeling of guilt or remorse after drinking? 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily AUD8 8. How often during the last year have you been unable to remember what happened the night before because you had been drinking? 2. Monthly 3. Weekly 4. Daily or almost daily 2. Monthly 3. Weekly 4. Daily or almost daily AUD9 9. Have you or someone else ever been injured as a result of your drinking? 9. Have you or someone else ever been injured as a result of your drinking? 10. No 2. Yes, but not last year 4. Yes, during last year AUD10 10. Has a relative or friend or a doctor or other health worker ever been concerned about your drinking or suggested that you cut down? 10. No 2. Yes, but not last year			2. Monthly
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because you had been drinking? 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily 9. Have you or someone else ever been injured as a result of your drinking? 2. Yes, but not last year 4. Yes, during last year 10. Has a relative or friend or a doctor or other health worker ever been concerned about your drinking or suggested that you cut down? 1. Less than monthly 2. Monthly 3. Weekly 4. Daily or almost daily 2. Yes, but not last year 4. Yes, during last year	AUD8		0. Never
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AUD10 10. Has a relative or friend or a doctor or other health worker ever been concerned about your drinking or suggested that you cut down? 0. No 2. Yes, but not last year		result of your drinking?	2. Yes, but not last year
health worker ever been concerned about your drinking or suggested that you cut down? 2. Yes, but not last year			4. Yes, during last year
drinking or suggested that you cut down? 2. Yes, but not last year	AUD10		0. No
			2. Yes, but not last year
T. 1 Co, during rase year			4. Yes, during last year

Note: Intermediate variables aud1t, aud2t, aud3t, aud4t, aud5t, aud6t, aud7t, aud8t, aud9t, aud10t were derived to calculate the AUDIT score. Variables aud1t to audit10t should be used for analyzing individual AUDIT items.

AUDIT AUDIT score (total sample)

Items aud1 to aud10 were recoded for total sample into aud1t to aud10t.

AUDIT = summation of (aud1t, aud2t, aud3t, aud4t, aud5t, aud6t, aud7t, aud8t, aud9t, aud10t)

Range: [min: 0 - max: 40] (higher score = increased likelihood of alcohol problems)

AUDIT8 AUDIT score cut-off 8+ (total sample)

Based on AUDIT

AUDIT8=	DESCRIPTION	CONDITION
0	AUDIT score less than 8	AUDIT ge 0 and AUDIT le 7
1	AUDIT score of 8 and over	AUDIT ge 8

AUDIT DOMAINS

AUDITC AUDIT score for consumption/intake

Based on aud1t to aud3t; range[0-12]

AUDITC = summation of (aud1t, aud2t, aud3t)

AUDITD AUDIT score for dependence

Based on aud4t to aud6t; range [0-12]

AUDITD = summation of (aud4t, aud5t, aud6t)

AUDITAC AUDIT score for adverse consequences

Based on aud7t to aud10t; range [0-16]

AUDITAC = summation of (aud7t, aud8t, aud9t, aud10t)

AUDITP AUDIT score for problems (adverse consequences + dependence)

Based on aud4t to aud10t; range [0-28]

AUDITP = summation of (aud4t, aud5t, aud6t, aud7t, aud8t, aud9t, aud10t)

Note: alternative coding

AUDITDR (binary) (0'no indicator'; 1'1 or more dep indic');

AUDITACR (4 cat) (0'no conseq' to 3'3 or more');

AUDITPR (4 cat) (0'no problem' to 3'3 or more').

1.3. HARMS from ALCOHOL

Harm from one's own alcohol use

AHARML One or more types of harm from one's own alcohol use – lifetime Based on 8 items: ahar1 to ahar8.

AHARML=	DESCRIPTION
0	Never any harm from alcohol use
1	At least one harm from alcohol use during lifetime (1 of 8)

Note: The intermediate variables **AHAR1L** to **AHAR8L** (derived lifetime harm items) were used to calculate AHARML.

AHARM12 One or more types of harm from one's own alcohol use – past 12m Based on 8 items: ahar1 to ahar8.

AHARM12=	DESCRIPTION
0	No harm from alcohol use – past 12m
1	At least one harm from alcohol use during past 12m (1 of 8)

Note: The intermediate variables **AHAR1C12** to **AHAR8C12** (derived past 12 months harm items) were used to calculate AHARM12.

<u>Harm from others' alcohol use – past 12 months</u> Asked only of respondents aged 18 years and older

$HARMOTHR \quad One \ or \ more \ types \ of \ harm \ from \ others' \ alcohol \ use-past \ 12m$

Based on 6 harm items: opd1, opd2, opd3, opd5, vic1, and vic4.

HARMOTHR=	DESCRIPTION
0	No harm from others' alcohol use – past 12m
1 At least one harm from others' alcohol use – past 12m (1 o	

2. CANNABIS

2.1 CANNABIS USE

CANLIFE Lifetime cannabis use

Based on CAN1

CANLIFE=	DESCRIPTION	CONDITION
0	Never used	CAN1=3
1	Ever used in lifetime	CAN1=1,2

CAN12M Cannabis use past 12 months

Based on CAN2

CAN12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12 months	CAN2=2 and [valid skip=0]
1	Used past 12 months	CAN2=1

CAN3M Cannabis use past 3 months

Based on CAN3

CAN3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	CAN3=2 AND [valid skip=0]
1	Used past 3 months	CAN3=1 through 4

CAN30D Cannabis use past 30 days

Based on CAN30

CAN30D=	DESCRIPTION	CONDITION
0	Never used/ not used past 30 days	CAN30=0 AND [valid skip=0]
1	Used past 30 days	CAN30=1 through 30

Note: alternative coding

CANLIFEX (cannabis use lifetime, excluding one time use) (0 "no" 1 "used lifetime more than once")

CAN12MX (cannabis use past 12m, excluding one time use) (0 "no" 1 "used past 12m more than once")

CNONLYL (used only cannabis, lifetime) (0 "no" 1 "used only cannabis lifetime")

CNONLY12 (used only cannabis, past 12m) (0 "no" 1 "used only cannabis past 12m")

DRIVCAN Driven a motor vehicle after using cannabis within 2 hours before driving (among valid drivers) (only Panel B)

Based on DL_1 (valid driving licence) and CD_1; (1'yes', 0'no').

2.2. CANNABIS PROBLEMS - ASIST (WHO)

Based on WHO's Alcohol, Smoking and Substance Involvement Screening Test (ASSIST)

The World Health Organization has developed a screening instrument – the Alcohol, Smoking and Substance Involvement Screening Test (ASSIST) - designed to assess, for users of specific substances, the risk of experiencing health and other problems (e.g. social, financial, legal, relationship) from their current pattern of use (WHO ASSIST Working Group 2002) (see Appendix 2).

The **ASSIST** is asked only of **past 3 moths** users. The **ASSIST** score ranges from 0 to 39. Three cut-off points are used to assess the risk of experiencing health and other problems: 1) "low" (a score of 0-3) refers to a pattern of use associated with a low risk of experiencing problems; 2) "moderate" (a score of 4-26) refers to a pattern of use associated with a moderate risk of experiencing problems; and 3) "high" (a score of 27 +) refers to a pattern of use that is associated with a high risk of experiencing problems and is likely to lead to dependency.

ASISTCAN Cannabis ASSIST score

Based on 6 items CAN3M, CNAS1 through CNAS5. Variables CAN3M, and CNAS1through CNAS5 were first recoded into variables **ASCAN1, ASCAN2, ASCAN3, ASCAN4, ASCAN5,** and **ASCAN6** to match WHO's ASSIST coding (see Appendix 2).

ASISTCAN = summation of items (ascan1, ascan2, ascan3, ascan4, ascan5, ascan6)

Range: [min: 0 - max: 39] (higher score = increased likelihood of experiencing problems)

Note: alternative coding (binary 0,1) for items ASCAN1 to ASCAN6 – see **ASCAN1R** through **ASCAN6R**.

ASISTCN3 Risk level for cannabis consumption - 3 categories Based on ASISTCAN score

ASISTCN3=	DESCRIPTION	CONDITION
0= "low"	Score <=3 Low risk of developing health and other problems	ASISTCAN ge 0 and le 3
1= "moderate"	4=< Score <=26 Moderate risk of developing health and other problems	ASISTCAN ge 4 and le 26
2= "high"	Score >=27 High risk of developing health and other problems and likely to be dependent	ASISTCAN ge 27

ASISTCN2 Risk level for cannabis consumption - 2 categories

Based on ASISTCAN score - categories (moderate /high) combined

ASISTCN2=	DESCRIPTION	CONDITION
0= "low"	Score <=3 Low risk of developing health and other problems	ASISTCAN ge 0 and le 3
1= "moderate/ high"	Score >=4 Moderate or high risk of developing health and other problems (eventually likely to be dependent)	ASISTCAN ge 4

3. ILLICIT DRUGS

3.1. COCAINE

COCLIFE Lifetime cocaine use

Based on COC1

COCLIFE=	DESCRIPTION	CONDITION
0	Never used	COC1=3
1	Ever used in lifetime	COC1=1,2

COC12M Cocaine use past 12 months

Based on COC2 - recoded for total sample

COC12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12	COC2=2 AND
	months	sysmis=0
1	Used past 12 months	COC2=1

COC3M Cocaine use past 3 months

Based on COC3 – recoded for total sample

COC3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	COC3=2 AND
	_	sysmis=0
1	Used past 3 months	COC3=1 through 4

3.2. SPEED

SPEDLIFE Lifetime speed use

Based on SPED1

SPEDLIFE=	DESCRIPTION	CONDITION
0	Never used	SPED1=3
1	Ever used in lifetime	SPED1=1,2

SPED12M Speed use past 12 months

Based on SPED2 – recoded for total sample

SPED12M =	DESCRIPTION	CONDITION
0	Never used/ not used past 12	SPED2=2 AND
	months	sysmis=0
1	Used past 12 months	SPED2=1

SPED3M Speed use past 3 months

Based on SPED3 - recoded for total sample

SPED3M =	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	SPED3=2 AND
		sysmis=0
1	Used past 3 months	SPED3=1 through 4

3.3. ECSTASY

XTCLIFE Lifetime ecstasy use

Based on EXT1

XTCLIFE=	DESCRIPTION	CONDITION
0	Never used	EXT1=3
1	Ever used in lifetime	EXT1=1,2

XTC12M Ecstasy use past 12 months

Based on EXT2 – recoded for total sample

XTC12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12	EXT2=2 AND
	months	sysmis=0
1	Used past 12 months	EXT2=1

XTC3M Ecstasy use past 3 months

Based on EXT3 – recoded for total sample

XTC3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	EXT3=2 AND
	-	sysmis=0
1	Used past 3 months	EXT3=1 through 4

3.4. HALLUCINOGENS

HALLIFE Lifetime hallucinogens use

Based on HAL1

HALLIFE=	DESCRIPTION	CONDITION
0	Never used	HAL1=3
1	Ever used in lifetime	HAL1=1,2

HAL12M Hallucinogens use past 12 months

Based on HAL2 – recoded for total sample

HAL12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12	HAL2=2 AND
	months	sysmis=0
1	Used past 12 months	HAL2=1

HAL3M Hallucinogens use past 3 months

Based on HAL3 – recoded for total sample

HAL3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	HAL3=2 AND
		sysmis=0
1	Used past 3 months	HAL3=1 through 4

3.5. INHALANTS

INHLIFE Lifetime inhalant use

Based on GLUE1

INHLIFE=	DESCRIPTION	CONDITION
0	Never used	GLUE1=3
1	Ever used in lifetime	GLUE1=1,2

INH12M Inhalant use past 12 months

Based on GLUE2 – recoded for total sample

INH12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12	GLUE2=2 AND
	months	sysmis=0
1	Used past 12 months	GLUE2=1

INH3M Inhalant use past 3 months

Based on GLUE3 – recoded for total sample

INH3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	GLUE3=2 AND
		sysmis=0
1	Used past 3 months	GLUE3=1 through 4

3.6. HEROIN

HERLIFE Lifetime heroin use

Based on HER1

HERLIFE=	DESCRIPTION	CONDITION
0	Never used	HER1=3
1	Ever used in lifetime	HER1=1,2

HER12M Heroin use past 12 months

Based on HER2 – recoded for total sample

HER12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12	HER2=2 AND
	months	sysmis=0
1	Used past 12 months	HER2=1

HER3M Heroin use past 3 months

Based on HER3 – recoded for total sample

HER3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	HER3=2 AND
	-	sysmis=0
1	Used past 3 months	HER3=1 through 4

3.7. STEROIDS

STERLIFE Lifetime steroid use

Based on STER1

STERLIFE=	DESCRIPTION	CONDITION
0	Never used	STER1=3
1	Ever used in lifetime	STER1=1,2

STER12M Steroid use past 12 months

Based on STER2.

STER12M=	DESCRIPTION	CONDITION
0	Never used/ not used past 12 months	STER2=2 AND sysmis=0
1	Used past 12 months	STER2=1

STER3M Steroid use past 3 months

Based on STER3.

STER3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	STER3=2 AND
		sysmis=0
1	Used past 3 months	STER3=1 through 4

3.9. ANY ILLICIT DRUG USE

3.9.1. ANY 8 DRUGS INCLUDING CANNABIS

(8 drugs: cannabis, cocaine, speed, ecstasy, hallucinogens, inhalants, heroin, and steroids)

ANY8DL Lifetime use (any drug, including cannabis)

Based on 8 items (can1, coc1 through ster1)

ANY8DL =	DESCRIPTION	CONDITION
0	Never used	if (can1=3 or coc1=3 or sped1=3 or ext1=3 or hal1=3 or glue1=3 or her1=3 or ster1=3)
1	Used at least one drug in lifetime	if (can1=1,2 or coc1=1,2 or sped1=1,2 or ext1=1,2 or hal1=1,2 or glue1=1,2 or her1=1,2 or ster1=1,2)

ANY8D12 Past 12 months use (any drug including cannabis)

Based on 8 items (can2, coc2 through ster2) recoded for total sample

ANY8D12=	DESCRIPTION	CONDITION
0	Never used/ not used past 12 months	if (can2=2 or coc2=2 or sped2=2 or ext2=2 or hal2=2 or glue2=2 or her2=2 or ster2=2) AND sysmis=0
1	Used at least one drug in past 12 months	if (can2=1 or coc2=1 or sped2=1 or ext2=1 or hal2=1 or glue2=1 or her2=1 or ster2=1)

ANY8D3M Past 3 months use (any drug including cannabis)

Based on 8 items (can3, coc3 through ster3).

ANY8D3M=	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	can3, coc3 through ster3=0 AND sysmis=0
1	Used at least one drug in past 3 months	can3, coc3 through ster3=1 through 4

Note: alternative coding

ANY8D3 - **Frequency of use past 3m, any drug including cannabis** (0'never' 2'once or twice' 3'monthly' 4'weekly' 6' daily or almost' 8'DK' 9'Ref).

DRGUSER - Used any of 8 drugs (3 cat)(0'not used' 1'used lifetime' 2'used past 12m').

3.9.2. ANY 7 DRUGS EXCLUDING CANNABIS

(7 drugs: cocaine, speed, ecstasy, hallucinogens, inhalants, heroin, and steroids)

ANY7DXL Lifetime use (any 7 drugs excluding cannabis)

Based on 7 items (coc1 through ster1)

ANY7DXL=	DESCRIPTION	CONDITION
0	Never used	if (coc1=3 or sped1=3 or ext1=3 or hal1=3 or glue1=3 or her1=3 or ster1=3)
1	Used at least one drug in lifetime	if (coc1=1,2 or sped1=1,2 or ext1=1,2 or hal1=1,2 or glue1=1,2 or her1=1,2 or ster1=1,2)

ANY7DX12 Past 12 months use (any 7 drugs excluding cannabis)

Based on 7 items (coc2 through ster2).

ANY7DX12=	DESCRIPTION	CONDITION
0	Never used/ not used past 12 months	if (coc2=2 or sped2=2 or ext2=2 or hal2=2 or glue2=2 or her2=2 or ster2=2) AND sysmis=0
1	Used at least one drug in past 12 months	if (coc2=1 or sped2=1 or ext2=1 or hal2=1 or glue2=1 or her2=1 or ster2=1)

ANY7DX3M Past 3 months use (any 7 drugs excluding cannabis)

Based on 7 items (coc3 through ster3).

ANY7DX3M =	DESCRIPTION	CONDITION
0	Never used/ not used past 3 months	coc3 through ster3=0 AND sysmis=0
1	Used at least one drug in past 3 months	coc3 through ster3=1 through 4

3.9.3. ANY 6 ILLICIT DRUGS INCLUDING CANNABIS

(6 drugs: cannabis, cocaine, speed, ecstasy, hallucinogens, and heroin)

IL6DL Lifetime use (any illicit including cannabis)

Based on 6 items (can1, coc1 through hal1, her1) (0 "no" 1 "used at least 1").

IL6D12 Past 12 months use (any illicit including cannabis)

Based on 6 items (can2, coc2 through hal2, her2) (0 "no" 1 "used at least 1").

3.9.4. ANY 5 ILLICIT DRUGS EXCLUDING CANNABIS

(5 drugs: cocaine, speed, ecstasy, hallucinogens, and heroin)

IL5DXL Lifetime use (any illicit - coc, speed, ecstasy, hall, heroin- excluding cannabis)

Based on 5 items (coc1 through hal1, her1) (0 "no" 1 "used at least 1").

IL5DX12 Past 12 months use (any illicit - coc, speed, ecstasy, hall, heroin- excluding cannabis)

Based on 7 items (coc2 through hal2, her2) (0 "no" 1 "used at least 1")...

ALTERNATIVE CODING:

3.9.5. ANY 7 DRUGS (CADS comparable) (cannabis included, ecstasy excluded) (cannabis, cocaine, speed, hallucinogens, inhalants, heroin, and steroids)

DRG7USER Used any 7 drugs (cannabis included, ecstasy excluded) (3 cat)

(0'not used' 1'used lifetime' 2'used past 12m')

DRGUSEL Used any 7 drugs (cannabis included, ecstasy excluded) lifetime

(0 "no" 1 "used at least 1").

DRGUSE12 Used any 7 drugs (cannabis included, ecstasy excluded) past 12m

(0 "no" 1 "used at least 1").

3.9.6. ANY 5 ILLICIT DRUGS (CADS comparable)

(cannabis (one time included), cocaine, speed, hallucinogens, and heroin)

IL51DL Lifetime (any illicit drugs: cannabis (one time included) + (coc, speed, hall, heroin).

(0 "no" 1 "used at least 1").

IL51D12 Past 12m (any illicit drugs: cannabis (one time included) + (coc, speed, hall, heroin).

(0 "no" 1 "used at least 1").

IL50DL Lifetime (any illicit drugs: cannabis (one time excluded) + (coc, speed, hall, heroin).

(0 "no" 1 "used at least 1").

IL50D12 Past 12m (any illicit drugs: cannabis (one time excluded) + (coc, speed, hall, heroin).

(0 "no" 1 "used at least 1").

DRG5USER Used any 5 illicit drugs (cannabis (one time included), coc, speed, hall, heroin) (3

cat)

(0'not used' 1'used lifetime' 2'used past 12m')

3.9.7. ANY 4 ILLICIT DRUGS (cocaine, speed, hallucinogens, and heroin)

(0 "no" 1 "used at least 1")

IL4DXL Lifetime (any 4 illicit drugs (coc, speed, hall, heroin)). IL4DX12 Past 12m (any 4 illicit drugs (coc, speed, hall, heroin)).

3.9.8. ANY 3 ILLICIT DRUGS (speed, hallucinogens, and heroin)

(0 "no" 1 "used at least 1")

IL3DXL Lifetime (any 3 illicit drugs (speed, hall/LSD, heroin)). IL3DX12 Past 12m (any 3 illicit drugs (speed, hall/LSD, heroin)).

3.9.9. INJECTED DRUGS

(0 "no" 1 "injected at least 1")

IVLIFE Lifetime – injected any drugs.

IV5DL Lifetime (used any 5 drugs injectable (coc, speed, hall/LSD, heroin, steroids)).

3.9.10. COMBINATION USE

ILONLY Used only other illicit drugs (never cannabis) – lifetime (0 "no" 1 "used at least 1")
ILONLY12 Used only other illicit drugs (never cannabis) – past 12m (0 "no" 1 "used at least 1")

ILDRG Combination use of drugs lifetime (4 cat) (0'never used'; 1' cannabis only';

2' other drugs (+cannabis); 3' only other drugs (never cannabis)).

ILDRG12 Combination use of drugs past 12m (4 cat) (0'never used'; 1' cannabis only';

2' other drugs (+cannabis); 3' only other drugs (never cannabis)).

3.10. DRUG USE PROBLEMS (Cannabis excluded) – ASSIST (WHO)

Based on WHO's Alcohol, Smoking and Substance Involvement Screening Test (ASSIST)

The **ASSIST** is asked only of **past 3 months** illicit drugs users (see Appendix 2). The score ranges from 0 to 39. Three cut-off points are used to assess the risk of experiencing health and other problems (e.g. social, financial, legal, relationship): 1) "low" (a score of 0-3) refers to a pattern of use associated with a low risk of experiencing problems; 2) "moderate" (a score of 4-26) refers to a pattern of use associated with a moderate risk of experiencing problems; and 3) "high" (a score of 27 +) refers to a pattern of use that is associated with a high risk of experiencing problems and is likely to lead to dependency.

ASISTIL Illicit Drugs ASSIST score

Based on 6 items: ANY7DX3M (past 3 months any drug use - coc3m through ster3m) + ASIS1 through ASIS5

Variables **ANY7DX3M**, and **ASIS1 through ASIS5** were first recoded into variables **ILASIS1**, **ILASIS2**, **ILASIS3**, **ILASIS4**, **ILASIS5**, and **ILASIS6** to match WHO's ASSIST coding (see Appendix 2).

ASISTIL = summation of (ilasis1, ilasis2, ilasis3, ilasis4, ilasis5, ilasis6)

Range: [min: 0 - max: 39] (higher score = increased likelihood of experiencing problems)

Note: alternative coding (binary 0,1) for variables ILASIS1 to ILASIS6 – see **ILASIS1R** through **ILASIS6R.**

ASISTIL3 Risk level for illicit drug use- 3 categories

Based on ASISTIL score

ASISTIL3=	DESCRIPTION	CONDITION
0= "low"	Score <3 Low risk of developing health and other problems	ASISTIL ge 0 and le 3
1= "moderate"	4< Score <26 Moderate risk of developing health and other problems	ASISTIL ge 4 and le 26

2= "high"	Score >27	ASISTIL ge 27
	High risk of developing health and other problems and likely to be dependent	

ASISTIL2 Risk level for illicit drug use- 2 categories

Based on ASISTIL score - categories (moderate/high) combined

ASISTIL2=	DESCRIPTION	CONDITION
0= "low"	Score <=3 Low risk of developing health and other problems	ASISTIL ge 0 and le 3
1= "moderate/ high"	Score >=4 Moderate or high risk of developing health and other problems (eventually likely to be dependent)	ASISTIL ge 4

3.11. HARM FROM DRUGS

DHARML One or more types of harm from one's own drug use – lifetime

Based on 8 items, dhar1 to dhar8, recoded for lifetime harm.

DHARML=	DESCRIPTION
0	Never any harm from drug use
1	At least one harm from drug use during lifetime (1 of 8)

Note: intermediate variables **DHAR1L** to **DHAR8L** (derived lifetime harm items) were used for calculating DHARML.

DHARM12 One or more types of harm from one's own drug use – past 12m

Based on 8 items, dhar1 to dhar8, recoded for past12m harm.

DHARM12=	DESCRIPTION
0	No harm from drug use – past 12m
1	At least one harm from drug use during past 12m (1 of 8)

Note: intermediate variables **DHAR1C12** to **DHAR8C12** (derived past 12 months harm items) were used for calculating DHARM12.

4. **SMOKING** (only Panel C)

SMKSTAT3 Smoking status past 12m - Standard to Health Canada Recommendations Based on SMOK1, SMOK2, SMOK5

SMKSTAT3=	DESCRIPTION	CONDITION
1	Current smoker (past 12m)	(SMOK1=1, 3) OR (SMOK1=5 AND SMOK2=1 AND SMOK5=1)
2	Former smoker (includes those who "recently" quit- 1-11 months ago)	(SMOK1 =5 AND SMOK2=1 AND SMOK5=2,3,4,5) OR (SMOK1=3 AND SMOK5=2,3,4,5)
3	Never 100 cigarettes in lifetime	SMOK1=5 AND SMOK2=5

Note: alternative coding

SSTATUS4 Smoking status (4 cat) – past 12m

(1'Current daily' 2 'Current nondaily' 3 'Former smoker' 4 'Never 100 cigs'.)

DSMOKER Daily Smoker Past 12m

(1'yes' 0 'no/nonsmoker').

5. HRQOL - HEALTH-RELATED QUALITY OF LIFE MEASURES (only Panel B)

Based on the health-related quality of life core module (HRQOL-4) developed by the Centers for Disease Control and Prevention (CDC), Atlanta, US.

Investigators at Centers for Disease Control and Prevention (CDC) have developed a brief survey tool to identify health-related quality of life in adult populations (Ôunpuu, Krueger et al. 2000; Moriarty, Zack et al. 2003). The four-item HRQOL core module measures self-perceived health, recent physical and mental health, and recent activity limitation. HRQOL measures capture the key concepts of health, identified by the World Health Organization (WHO) in 1948, as "a state of complete physical, mental, and social well-being – not merely the absence of disease or infirmity."

HRQOL measures are based on 4 items: gh1, gh3, gh4, gh5. Unlike other health profiles, the HRQOL-4 does not use a summary score or subscale scores based on psychometrically derived or preference-based weights. The only scoring used is with a summary "unhealthy days" index, computed by adding a respondent's physically and mentally unhealthy days, with a maximum of 30 days for one person. For comparing populations and examining patterns and trends, population means are generally used for the "days" measures. For some analyses, derived measures based on a cut point are used, for example, "frequent mental distress" is defined as 14 or more mentally unhealthy days reported by a respondent.

DERIVED "HRQOL" VARIABLES

FAIRHLT Percent fair or poor health

Based on item gh1 (self-rated health)

Recoded into 2 categories: '0' (excellent, very good, good); '1' (fair, poor)

FAIRMHLT Percent fair or poor mental health

Based on item gh2 (self-rated mental health)

Recoded into 2 categories: '0' (excellent, very good, good); '1' (fair, poor)

UNHLTPD Physically unhealthy days

Based on item gh3.

Range: 0-30.

UNHLTMD Mentally unhealthy days

Based on item gh4.

Range: 0-30.

ACTLIMD Activity limitation days

Based on item gh5.

Range: 0-30.

UNHLTD Sum of unhealthy days (physically & mentally)

Sum of items UNHLTPD and UNHLTMD, recoded so max=30.

Range: 0-30.

MENTDISD Frequent mental distress days

Based on item UNHLTMD (mentally unhealthy days)

Recoded into 2 categories: '0' (0-13 days); '1' (14+ days)

(as recommended by CDC).

6. DERIVED DEMOGRAPHICS

AGE – recoded in several categories.

AGECAT9 Age recoded in 9 categories (CADS)

Based on age

AGECAT9	DESCRIPTION	CONDITION
1	15 - 17 years	age= 15 thru 17
2	18- 19 years	age= 18 thru 19
3	20 - 24 years	age= 20 thru 24
4	25 - 34 years	age= 25 thru 34
5	35 – 44 years	age = 35 thru 44
6	45 – 54 years	age = 45 thru 54
7	55 - 64 years	age = 55 thru 64
8	65 –74 years	age = 65 thru 74
9	75+ years	age= 75 thru HI

AGECAT3 Age recoded in 3 categories

Based on age

Recoded in 3 categories: 1(15-24 yrs); 2 (25-44 yrs); 3 (45+ yrs).

AGECAT4 Age recoded in 4 categories

Based on age

Recoded in 4 categories: 1(15-24 yrs); 2 (25-44 yrs); 3 (45-64 yrs); 4 (65+ yrs).

AGECAT6 Age recoded in 6 categories

Based on age

Recoded in 6 categories: 0 (15-17 yrs); 1 (18-29 yrs); 2 (30-39 yrs); 3 (40-49 yrs); 4 (50-64 yrs); 5 (65+ yrs).

AGECAT7 Age recoded in 7 categories

Based on age

Recoded in 7 categories: 1 (15-19 yrs); 2 (20-24 yrs); 3 (25-34 yrs); 4 (35-44 yrs);

5 (45-54 yrs); 6 (55-64 yrs); 7 (65+ yrs).

AGE8NPHS Age recoded in 8 categories (NPHS comparable)

Based on age

Recoded in 8 categories: 1 (15-19 yrs); 2 (20-24 yrs); 3 (25-34 yrs); 4 (35-44 yrs);

5 (45-54 yrs); 6 (55-64 yrs); 7 (65-74 yrs); 8 (75+ yrs).

AGE8CCHS Age recoded in 8 categories (CCHS comparable)

Based on age

Recoded in 8 categories: 1 (15-17 yrs); 2 (18-19 yrs); 3 (20-24 yrs); 4 (25-34 yrs);

5 (35-44 yrs); 6 (45-54 yrs); 7 (55-64 yrs); 8 (65+ yrs).

EDUCAT4 Highest level of education recoded (4 categories)

Based on SDED1

EDUCAT4	DESCRIPTION	CONDITION
1	less than high school	SDED1 = 1 thru 4
2	completed high school	SDED1 = 5
3	some post-secondary (college or university)	SDED1 = 6 thru 10
4	university degree	SDED1 = 11 thru 14

Note: alternative coding

EDU4CADS Education (4 categories - CADS comparable)

(1 '<High school' 2 'Completed HS' 3 'Some post-sec' 4 'Univ. Deg' 9'DK/Refused')

MARSTAT3 Marital status recoded (3 categories)

Based on MSCN

MARSTAT3	DESCRIPTION	CONDITION
1	Married/ Living with partner	MSCN=1,2
2	Previously married (divorced, widowed, separated)	MSCN=3,4,5
3	Never married	MSCN=6

MARSTAT4 Marital status recoded (4 categories)

Based on MSCN

MARSTAT4	DESCRIPTION	CONDITION
1	Married	MSCN=1
2	Partner	MSCN=2
3	Previously married (divorced, widowed, separated)	MSCN=3,4,5
4	Never married	MSCN=6

Note: alternative coding

MSTAT4R Marital status (different 4 cat)

(1 'Married/Part' 2 'Widowed' 3 'Div/Sep' 4 'Never married' 98'DK' 99'Refused').

EMPCAT8 Employment status recoded (8 categories)

Based on SDEM1

EMPCAT8	DESCRIPTION	CONDITION
1	full-time	SDEM1=1
2	part-time	SDEM1=2
3	unemployed	SDEM1=4
4	retired	SDEM1=5
5	homemaker	SDEM1=6
6	student	SDEM1=7
7	self-employed	SDEM1=8
8	other	SDEM1=0,3, 10, 11

PINCOME Personal Income Before Taxes (past year)

Based on items SDIN3 and SDIN4

PINCOME=	DESCRIPTION	CONDITION
1	less than \$20,000	sdin3 lt 20 or sdin4=1
2	between \$20,000 and \$29,999.99	(sdin3 ge 20 and sdin3 lt 30) or sdin4=2
3	between \$30,000 and \$39,999.99	(sdin3 ge 30 and sdin3 lt 40) or sdin4=3
4	between \$40,000 and \$49,999.99	(sdin3 ge 40 and sdin3 lt 50) or sdin4=4
5	between \$50,000 and \$59,999.99	(sdin3 ge 50 and sdin3 lt 60) or sdin4=5
6	between \$60,000 and \$69,999.99	(sdin3 ge 60 and sdin3 lt 70) or sdin4=6
7	between \$70,000 and \$79,999.99	(sdin3 ge 70 and sdin3 lt 80) or sdin4=7
8	between \$80,000 and \$89,999.99	(sdin3 ge 80 and sdin3 lt 90) or sdin4=8
9	between \$90,000 and \$100,000	(sdin3 ge 90 and sdin3 lt 100) or sdin4=9
10	more than \$100,000	(sdin3 ge 100) or sdin4=10
98	Don' know	Don' know
99	Refused	Refused

HINCOME Household Income Before Taxes (past year)

Based on items SDIN1 and SDIN2 and PINCOME

HINCOME=	DESCRIPTION	CONDITION	
1	less than \$20,000	sdin1 lt 20 or sdin2=1	
2	between \$20,000 and \$29,999.99	(sdin1 ge 20 and sdin1 lt 30) or sdin2=2	
3	between \$30,000 and \$39,999.99	(sdin1 ge 30 and sdin1 lt 40) or sdin2=3	
4	between \$40,000 and \$49,999.99	(sdin1 ge 40 and sdin1 lt 50) or sdin2=4	
5	between \$50,000 and \$59,999.99	(sdin1 ge 50 and sdin1 lt 60) or sdin2=5	
6	between \$60,000 and \$69,999.99	(sdin1 ge 60 and sdin1 lt 70) or sdin2=6	
7	between \$70,000 and \$79,999.99	(sdin1 ge 70 and sdin1 lt 80) or sdin2=7	
8	between \$80,000 and \$89,999.99	(sdin1 ge 80 and sdin1 lt 90) or sdin2=8	
9	between \$90,000 and \$100,000	(sdin1 ge 90 and sdin1 lt 100) or sdin2=9	
10	more than \$100,000	(sdin1 ge 100) or sdin2=10	
98	Don' know	Don' know	
99	Refused	Refused	
		AND If HH (household)=1	
		HINCOME = PINCOME	

HINCCAT5 Household Income (5 categories)

Based on items HINCOME

HINCCAT5=	DESCRIPTION	CONDITION
1	less than \$30,000	(HINCOME le 2)
2	between \$30,000 and \$49,999.99	(HINCOME gt 2 and HINCOME le 4)
3	between \$50,000 and \$79,999.99	(HINCOME gt 4 and HINCOME le 7)
4	more than \$80,000	(HINCOME gt 7 and HINCOME le 10)
5	Not stated (refused or DK)	(HINCOME = 98 or HINCOME = 99)

INCADEQ4 Income Adequacy (4 categories)

Based on items SDIN1, SDIN2, and SD_3 (HH size)

INCADEQ3	DESCRIPTION	INCOME (revised)	HH SIZE
1	Lowest income	<\$20,000	1-2 persons
		<\$30,000	3 or more persons
2	Middle income	\$20,000-\$59,000	1-2 persons
		\$30,000-\$79,000	3-4 persons
		\$30,000-\$79,000	5 or more persons
3	High income	\$60,000+	1-2 persons
		\$80,000+	3 or more persons
9	Not stated	Not stated	Unknown

INCADEQ5 Income Adequacy - 5 categories

Based on items SDIN1, SDIN2, and SD_3 (HH size)

INCADEQ	DESCRIPTION	INCOME	HH SIZE
		(revised)	
1	Lowest income	<\$20,000	1-2 persons
		<\$30,000	3 or more persons
2	Lower middle income	\$20,000-\$29,000	1-2 persons
		\$30,000-\$49,999	3-4 persons
		\$30,000- \$59,000	5 or more persons
3	Upper middle income	\$30,000-\$59,000	1-2 persons
		\$50,000-\$79,000	3-4 persons
		\$60,000-\$79,000	5 or more persons
4	Highest income	\$60,000+	1-2 persons
		\$80,000+	3 or more persons
9	Not stated	Not stated	Unknown

Note: intermediate variable HH3CAT (household size -3cat) was used for calculating INCADEQ4 and INCADEQ5.

LANGHOME Language spoken at home

Based on "sdet4_m1".

(1=English; 2=French; 3=Other)

RURAL Location of Household

Based on FSA ("Forward Sortation Area" – first 3 digits of the postal code).

(1= rural; 0 = non-rural)

REGION Canada's five regions

Based on "prov".

(1 'Atlantic' 2 'Quebec' 3 'Ontario' 4 'Prairies' 5 'B.C').

OCCUPAT Main Occupation Codes

Main Occupation Codes are based on the National Occupation Codes (NOC)

Managers codes start with "10" instead of "0".

Note: Variable "occupat" should be used instead of "sdem3" for recoding purposes.

7. DERIVED VARIABLES REFERENCES

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WHO ASSIST Working Group (2002). "Alcohol, smoking and substance involvement screening test (ASSIST): Development, reliability and feasibility." <u>Addiction</u> **97**(9): 1183-1194.

8.2 WHO ASSIST

A. WHO - ASSIST V3.0

INTERVIEWER ID	COUNTRY		CLI	NIC		
Patient ID		Date				

INTRODUCTION (Please read to patient)

Thank you for agreeing to take part in this brief interview about alcohol, tobacco products and other drugs. I am going to ask you some questions about your experience of using these substances across your lifetime and in the past three months. These substances can be smoked, swallowed, snorted, inhaled, injected or taken in the form of pills (show drug card).

Some of the substances listed may be prescribed by a doctor (like amphetamines, sedatives, pain medications). For this interview, we will <u>not</u> record medications that are used <u>as prescribed</u> by your doctor. However, if you have taken such medications for reasons <u>other</u> than prescription, or taken them more frequently or at higher doses than prescribed, please let me know. While we are also interested in knowing about your use of various illicit drugs, please be assured that information on such use will be treated as strictly confidential.

NOTE: BEFORE ASKING QUESTIONS, GIVE ASSIST RESPONSE CARD TO PATIENT

Question 1 (if completing follow-up please cross check the patient's answers with the answers given for Q1 at baseline. Any differences on this question should be queried)

In your life, which of the following substances have you ever used? (NON-MEDICAL USE ONLY)	No	Yes
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	3
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	3
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	3
d. Cocaine (coke, crack, etc.)	0	3
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	3
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	3
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	3
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	3
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	3
j. Other - specify:	0	3

Probe if all answers are negative: "Not even when you were in school?"

If "No" to all items, stop interview.

If "Yes" to any of these items, ask Question 2 for each substance ever used.

Question 2

In the past three months, how often have you used the substances you mentioned (FIRST DRUG, SECOND DRUG, ETC)?	Never	Once or Twice	Monthly	Weekly	Daily or Almost Daily
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	2	3	4	6
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	2	3	4	6
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	2	3	4	6
d. Cocaine (coke, crack, etc.)	0	2	3	4	6
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	2	3	4	6
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	2	3	4	6
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	2	3	4	6
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	2	3	4	6
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	2	3	4	6
j. Other - specify:	0	2	3	4	6

If "Never" to all items in Question 2, skip to Question 6.

If any substances in Question 2 were used in the previous three months, continue with Questions 3, 4 & 5 for <u>each substance</u> used.

Question 3

During the <u>past three months</u> , how often have you had a strong desire or urge to use (FIRST DRUG, SECOND DRUG, ETC)?	Never	Once or Twice	Monthly	Weekly	Daily or Almost Daily
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	3	4	5	6
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	3	4	5	6
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	3	4	5	6
d. Cocaine (coke, crack, etc.)	0	3	4	5	6
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	3	4	5	6
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	3	4	5	6
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	3	4	5	6
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	3	4	5	6
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	3	4	5	6
j. Other - specify:	0	3	4	5	6

Question 4

During the <u>past three months</u> , how often has your use of (FIRST DRUG, SECOND DRUG, ETC) led to health, social, legal or financial problems?	Never	Once or Twice	Monthly	Weekly	Daily or Almost Daily
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	4	5	6	7
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	4	5	6	7
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	4	5	6	7
d. Cocaine (coke, crack, etc.)	0	4	5	6	7
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	4	5	6	7
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	4	5	6	7
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	4	5	6	7
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	4	5	6	7
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	4	5	6	7
j. Other - specify:	0	4	5	6	7

Question 5

During the <u>past three months</u> , how often have you failed to do what was normally expected of you because of your use of (FIRST DRUG, SECOND DRUG, ETC)?	Never	Once or Twice	Monthly	Weekly	Daily or Almost Daily
a. Tobacco products					
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	5	6	7	8
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	5	6	7	8
d. Cocaine (coke, crack, etc.)	0	5	6	7	8
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	5	6	7	8
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	5	6	7	8
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	5	6	7	8
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	5	6	7	8
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	5	6	7	8
j. Other - specify:	0	5	6	7	8

Ask Questions 6 & 7 for all substances ever used (i.e. those endorsed in Question 1)

Question 6

Has a friend or relative or anyone else <u>ever</u> expressed concern about your use of (FIRST DRUG, SECOND DRUG, ETC.)?	No, Never	Yes, in the past 3 months	Yes, but not in the past 3 months
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	6	3
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	6	3
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	6	3
d. Cocaine (coke, crack, etc.)	0	6	3
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	6	3
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	6	3
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	6	3
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	6	3
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	6	3
j. Other – specify:	0	6	3

Question 7

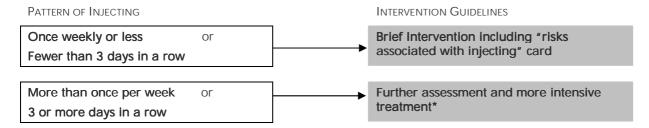
Have you ever tried and failed to control, cut down or stop using (FIRST DRUG, SECOND DRUG, ETC.)?	No, Never	Yes, in the past 3 months	Yes, but not in the past 3 months
a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)	0	6	3
b. Alcoholic beverages (beer, wine, spirits, etc.)	0	6	3
c. Cannabis (marijuana, pot, grass, hash, etc.)	0	6	3
d. Cocaine (coke, crack, etc.)	0	6	3
e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)	0	6	3
f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)	0	6	3
g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)	0	6	3
h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)	0	6	3
i. Opioids (heroin, morphine, methadone, codeine, etc.)	0	6	3
j. Other - specify:	0	6	3

Question 8

Zucsiion 6	No, Never	Yes, in the past 3 months	Yes, but not in the past 3 months
Have you ever used any drug by injection? (NON-MEDICAL USE ONLY)	0	2	1

IMPORTANT NOTE:

Patients who have injected drugs in the last 3 months should be asked about their pattern of injecting during this period, to determine their risk levels and the best course of intervention.



HOW TO CALCULATE A SPECIFIC SUBSTANCE INVOLVEMENT SCORE.

For each substance (labelled a. to j.) add up the scores received for questions 2 through 7 inclusive. Do not include the results from either Q1 or Q8 in this score. For example, a score for cannabis would be calculated as: Q2c + Q3c + Q4c + Q5c + Q6c + Q7c

Note that Q5 for tobacco is not coded, and is calculated as: Q2a + Q3a + Q4a + Q6a + Q7a

THE TYPE OF INTERVENTION IS DETERMINED BY THE PATIENT'S SPECIFIC SUBSTANCE INVOLVEMENT SCORE

	Record specific	no intervention	receive brief	more intensive
	substance score		intervention	treatment *
a. tobacco		0 - 3	4 - 26	27+
b. alcohol		0 - 10	11 - 26	27+
c. cannabis		0 - 3	4 - 26	27+
d. cocaine		0 - 3	4 - 26	27+
e. amphetamine		0 - 3	4 - 26	27+
f. inhalants		0 - 3	4 - 26	27+
g. sedatives		0 - 3	4 - 26	27+
h. hallucinogens		0 - 3	4 - 26	27+
i. opioids		0 - 3	4 - 26	27+
j. other drugs		0 - 3	4 - 26	27+

NOTE: *Further assessment and more intensive treatment may be provided by the health professional(s) within your primary care setting, or, by a specialist drug and alcohol treatment service when available.

B. WHO ASSIST V3.0 RESPONSE CARD FOR PATIENTS

Response Card - substances

a. Tobacco products (cigarettes, chewing tobacco, cigars, etc.)

b. Alcoholic beverages (beer, wine, spirits, etc.)

c. Cannabis (marijuana, pot, grass, hash, etc.)

d. Cocaine (coke, crack, etc.)

e. Amphetamine type stimulants (speed, diet pills, ecstasy, etc.)

f. Inhalants (nitrous, glue, petrol, paint thinner, etc.)

g. Sedatives or Sleeping Pills (Valium, Serepax, Rohypnol, etc.)

h. Hallucinogens (LSD, acid, mushrooms, PCP, Special K, etc.)

i. Opioids (heroin, morphine, methadone, codeine, etc.)

j. Other - specify:

Response Card (ASSIST Questions 2 - 5)

Never: not used in the last 3 months

Once or twice: 1 to 2 times in the last 3 months.

Monthly: 1 to 3 times in one month.

Weekly: 1 to 4 times per week.

Daily or almost daily: 5 to 7 days per week.

Response Card (ASSIST Questions 6 to 8)

No, Never

Yes, but not in the past 3 months

Yes, in the past 3 months

C. <u>A</u>LCOHOL, <u>S</u>MOKING AND <u>S</u>UBSTANCE <u>I</u>NVOLVEMENT <u>S</u>CREENING <u>T</u>EST (WHO ASSIST V3.0) FEEDBACK REPORT CARD FOR PATIENTS

Name	Test Date

Specific Substance Involvement Scores

Substance	Score	Risk Level
a. Tobacco products		0-3 Low 4-26 Moderate 27+ High
b. Alcoholic Beverages		0-10 Low 11-26 Moderate 27+ High
c. Cannabis		0-3 Low 4-26 Moderate 27+ High
d. Cocaine		0-3 Low 4-26 Moderate 27+ High
e. Amphetamine type stimulants		0-3 Low 4-26 Moderate 27+ High
f. Inhalants		0-3 Low 4-26 Moderate 27+ High
g. Sedatives or Sleeping Pills		0-3 Low 4-26 Moderate 27+ High
h. Hallucinogens		0-3 Low 4-26 Moderate 27+ High
i. Opioids		0-3 Low 4-26 Moderate 27+ High
j. Other - specify		0-3 Low 4-26 Moderate 27+ High

What do your scores mean?

Low: You are at low risk of health and other problems from your current pattern of use.

Moderate: You are at risk of health and other problems from your current pattern of substance use.

High: You are at high risk of experiencing severe problems (health, social, financial, legal,

relationship) as a result of your current pattern of use and are likely to be dependent

Are you concerned about your substance use?

a. tobacco		Your risk of experiencing these harms is: Low ☐ Moderate ☐ High ☐ (tick one)									
tobacco		Regular tobacco smoking is associated with:									
		emature aging, wrinkling of the skin									
		spiratory infections and asthma									
	Hiç	gh blood pressure, diabetes									
	Res	spiratory infections, allergies and asthma in children of smokers									
	Mis	scarriage, premature labour and low birth weight babies for pregnant women									
	Kic	Cidney disease									
	Ch	Chronic obstructive airways disease									
	Не	art disease, stroke, vascular disease									
	Ca	ncers									
b.		Your risk of experiencing these harms is: Low ☐ Moderate ☐ High ☐									
alcohol		(tick one)									
	На	Regular excessive alcohol use is associated with: ngovers, aggressive and violent behaviour, accidents and injury									
	Red	duced sexual performance, premature ageing									
	Diç	gestive problems, ulcers, inflammation of the pancreas, high blood pressure									
	An	xiety and depression, relationship difficulties, financial and work problems									
	Dif	ficulty remembering things and solving problems									
	De	formities and brain damage in babies of pregnant women									
	Str	oke, permanent brain injury, muscle and nerve damage									
	Liv	er disease, pancreas disease									
	Ca	ncers, suicide									
c. cannabis		Your risk of experiencing these harms is: Low ☐ Moderate ☐ High ☐ (tick one)									
carinabis		Regular use of cannabis is associated with:									
		oblems with attention and motivation									
		xiety, paranoia, panic, depression									
		creased memory and problem solving ability									
		gh blood pressure									
		thma, bronchitis									
	Psy	chosis in those with a personal or family history of schizophrenia									
	Не	art disease and chronic obstructive airways disease									
	Ca	ncers									
		· · · · · · · · · · · · · · · · · · ·									

d. cocaine		Your risk of experiencing these harms is:	Low \square	Moderate ☐ (tick one)	High □
cocanic		Regular use of cocaine is associated with:		(tick offe)	
	Difficulty	sleeping, heart racing, headaches, weight loss			
	Numbne	ess, tingling, clammy skin, skin scratching or picking			
	Accident	s and injury, financial problems			
	Irrationa	al thoughts			
	Mood sv	vings - anxiety, depression, mania			
	Aggress	ion and paranoia			
	Intense	craving, stress from the lifestyle			
	Psychosi	s after repeated use of high doses			
	Sudden	death from heart problems			
e.	alno	Your risk of experiencing these harms is:	Low 🗆	Moderate □ (tick one)	High □
amphetan type stimu		Regular use of amphetamine type stimulants is associated with:		(tick one)	
	Difficulty	sleeping, loss of appetite and weight loss, dehydration	on		
	jaw clen	ching, headaches, muscle pain			
	Mood sv	vings -anxiety, depression, agitation, mania, panic,	paranoia	ì	
	Tremors	, irregular heartbeat, shortness of breath			
	Aggress	ive and violent behaviour			
	Psychosi	s after repeated use of high doses			
	Permane	ent damage to brain cells			
	Liver da	mage, brain haemorrhage, sudden death (ecstasy) in	rare situa	ations	
f. inhalants		Your risk of experiencing these harms is:	Low 🗆	Moderate □	High □
innaianis		Regular use of inhalants is associated with:		(tick one)	
	Dizzines	s and hallucinations, drowsiness, disorientation, blur	red visio	า	
	Flu like	symptoms, sinusitis, nosebleeds			
	Indigest	on, stomach ulcers			
	Accident	s and injury			
	Memory	loss, confusion, depression, aggression			
	Coordin	ation difficulties, slowed reactions, hypoxia			
	Delirium	, seizures, coma, organ damage (heart, lungs, liver	, kidneys	s)	
	Death fr	om heart failure			

g. sedatives		Your risk of experiencing these harms is:	Low	Moderate □ (tick one)	High □				
3CGGIIVES		Regular use of sedatives is associated with:		(tick OHE)					
	Dro	wsiness, dizziness and confusion							
	Diffi	culty concentrating and remembering things							
	Nau	isea, headaches, unsteady gait							
	Slee	ping problems							
	Anxiety and depression								
	Tole	rance and dependence after a short period of use.							
	Seve	ere withdrawal symptoms							
	Ove	rdose and death if used with alcohol, opioids or other depre	essant dr	ugs.					
h.		Your risk of experiencing these harms is:	Low 🗆	Moderate □	High □				
hallucino	gens	Regular use of hallucinogens is associated with:		(tick one)					
	Hall	ucinations (pleasant or unpleasant) – visual, auditory, tactile	e, olfacto	ory					
	Diffi	culty sleeping							
	Nau	sea and vomiting							
	Incr	eased heart rate and blood pressure							
	Mod	od swings							
	Anx	iety, panic, paranoia							
	Flas	h-backs							
	Incr	ease the effects of mental illnesses such as schizophrenia							
i.		Your risk of experiencing these harms is:	Low 🗆	Moderate □	High □				
opioids		Regular use of opioids is associated with:		(tick one)	Ü				
	Itchi	ng, nausea and vomiting							
	Dro	wsiness							
	Con	stipation, tooth decay							
	Diffi	culty concentrating and remembering things							
	Red	uced sexual desire and sexual performance							
	Rela	tionship difficulties							
		ncial and work problems, violations of law							
		rance and dependence, withdrawal symptoms							
		rdose and death from respiratory failure							

D. RISKS OF INJECTING CARD – INFORMATION FOR PATIENTS

Using substances by injection increases the risk of harm from substance use.

This harm can come from:

The substance

- If you inject any drug you are more likely to become dependent.
- If you inject amphetamines or cocaine you are more likely to experience psychosis.
- If you inject heroin or other sedatives you are more likely to overdose.

· The injecting behaviour

- > If you inject you may damage your skin and veins and get infections.
- > You may cause scars, bruises, swelling, abscesses and ulcers.
- > Your veins might collapse.
- > If you inject into the neck you can cause a stroke.

· Sharing of injecting equipment

If you share injecting equipment (needles & syringes, spoons, filters, etc.) you are more likely to spread blood borne virus infections like Hepatitis B, Hepatitis C and HIV.

It is safer not to inject

If you do inject:

- √ always use clean equipment (e.g., needles & syringes, spoons, filters, etc.)
- ✓ always use a new needle and syringe
- ✓ don't share equipment with other people
- ✓ clean the preparation area
- ✓ clean your hands
- ✓ clean the injecting site
- ✓ use a different injecting site each time
- √ inject slowly
- ✓ put your used needle and syringe in a hard container and dispose of it safely

If you use stimulant drugs like amphetamines or cocaine the following tips will help you reduce your risk of psychosis.

- ✓ avoid injecting and smoking
- ✓ avoid using on a daily basis

❖ If you use depressant drugs like heroin the following tips will help you reduce your risk of overdose.

- ✓ avoid using other drugs, especially sedatives or alcohol, on the same day
- ✓ use a small amount and always have a trial "taste" of a new batch
- ✓ have someone with you when you are using
- ✓ avoid injecting in places where no-one can get to you if you do overdose
- ✓ know the telephone numbers of the ambulance service

E. TRANSLATION AND ADAPTATION TO LOCAL LANGUAGES AND CULTURE: A RESOURCE FOR CLINICIANS AND RESEARCHERS

The ASSIST instrument, instructions, drug cards, response scales and resource manuals may need to be translated into local languages for use in particular countries or regions. Translation from English should be as direct as possible to maintain the integrity of the tools and documents. However, in some cultural settings and linguistic groups, aspects of the ASSIST and it's companion documents may not be able to be translated literally and there may be socio-cultural factors that will need to be taken into account in addition to semantic meaning. In particular, substance names may require adaptation to conform to local conditions, and it is also worth noting that the definition of a standard drink may vary from country to country.

Translation should be undertaken by a bi-lingual translator, preferably a health professional with experience in interviewing. For the ASSIST instrument itself, translations should be reviewed by a bi-lingual expert panel to ensure that the instrument is not ambiguous. Back translation into English should then be carried out by another independent translator whose main language is English to ensure that no meaning has been lost in the translation. This strict translation procedure is critical for the ASSIST instrument to ensure that comparable information is obtained wherever the ASSIST is used across the world.

Translation of this manual and companion documents may also be undertaken if required. These do not need to undergo the full procedure described above, but should include an expert bi-lingual panel.

Before attempting to translate the ASSIST and related documents into other languages, interested individuals should consult with the WHO about the procedures to be followed and the availability of other translations. Write to the Department of Mental Health and Substance Dependence, World Health Organisation, 1211 Geneva 27, Switzerland.

8.3 QUESTIONNAIRE

Canad	lian Addiction Survey (CAS) 2004 - ITEM ALLOCATION				
	National Sample (Total N = 13909) Panels (N)	PANEL A 4612 No. of items	PANEL B	PANEL C	
			4639 No. of items		
				No. of items	
	Variables description (variable name)				
	variables description (variable name)			No. o. nomo	
1	Attitudes, Opinions, Policy (Block 1)				
1.1	Perceived seriousness	6			
	a. at national level (HCP1 to HCP6)	6	6		
	b. at provincial level (HCP7 to HCP12) c. at community (city or town) level (HCP13 to HCP18)		6	6	
1.2	Opinions on govt. impact/ societal impact (agree/disagree)	5	5	5	
1.2	(HCP19- HCP33)				
1.3	Perceived harm1 (users harming themselves)	20			
	(HCR1-HCR20) (+metamph)				
1.4	Perceived harm2 (users harming others)		20		
4 -	(HCR21-HCR40) (+metamph)				
1.5	Perceived risk (RISK1 to RISK9)			8	
1.6	Perceived availability (GET1 -GET7)	7			
2	Hoalth & Wall-Roing	1		+	
<u>2</u> 2.1	Health & Well-Being General Health & Mental Health (GH1 - GH5)		5		
2.1	Social isolation (QSI1-QSI3)		3	+	
	Cociai isolation (QCIT QCIS)				
3	Tobacco				
	Smoking status (SMOK1 -SMOK3)			3	
4	Alcohol Use				
4.1	Use (ALC1-ALC8, ALC11)				
	Prevalence of drinking	1	1	1	
	Lifetime drinkers	1	1	1	
	Past 12M drinkers - drinking patterns	8	8	8	
4.2	Past 7 days drinking (ALC10- ALC5A7)	7	7	7	
	Age of onset (ALC12)	1	1	1	
	Past 12M have you consumed more/less (q/f) (ALC13-ALC14)	2	2	2	
4.3	Drinking Occasions (AF1 - AT15A)				
	(asked of only 40% of Panel C sample)				
	Occ1				
	12M drinker?			13	
	Partial			4	
	Occ2			40	
	12M drinker?			13	
	Partial Occ3		+	4	
	Occ3 12M drinker?			13	
	Partial			4	
4.4	Home brew (HB1-HB3)			3	
				 	
4.5	Alcohol Problems				
	AUDIT (AUD4 - AUD10)	7	7	7	
	, ,				
5	Cannabis Use				
5.1	Use (CAN1-CAN6)	7	7	7	
	Age of onset (CAN4)	1	1	1	
	Opportunity (CAN1A)	1	1	1	
5.2	Patterns of use/ Reasons for use				
_	Past 12M have you consumed more/less (q/f) (CAN5-CAN6)	2	2	2	
	Where/ With whom? (HCCN1-HCCN2)	2	2	2	
	Reasons for use (HCCN3-HCCN4)	2	2	2	
			- 1	-1	
5.3 5.4	Medical use (CAME1-CAME2) Market Info (CMI1-CMI7)	7	7	7	

	ian Addiction Survey (CAS) 2004 - ITEM ALLOCATION				
	National Sample (Total N = 13909) Panels (N) Variables description (variable name)	PANEL A 4612 No. of items	PANEL B 4639 No. of items	PANEL C	
				No. of item	ns
5.5	Cannabis Problems				
	ASIST (CNAS1-CNAS5) (past 3M)	5	5	5	
6	Illicit Drugs				
6.1-6.8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	Cocaine (COC1-COC3)	3	3	3	
	Speed (SPED1-SPED3)	3	3	3	
	Ecstasy (EXT1-EXT3)	3	3	3	
	Hallucinogens (HAL1-HAL3) Inhalants (GLUE1-GLUE3)	3	3	3	
	Heroin (HER!-HER3)	3	3	3	
	Steroids (STER!-STER3)	3	3	3	
	Age of onset (for each drug) (COC4, SPED4,,STER4)	7	7	7	
6.9	Patterns of use (HCCO1- HCHE4)		1 1	- '	
6.9	(asked for cocaine, speed, hall, ecstasy, heroin)				
	Past 12M consumed more/less	10	10	10	
	Where usually consume	5	5	5	
	With whom usually consume	5	5	5	
6.10	Reasons for use/not use (HCRU1- HCRU4)				
	Why start using (past12M)	2	2	2	
	Why not used (past 3M)	1	1	1	
	Why still using (past 3M)	1	1	1	
6.11	Injection drug use (IDU1-IDU13)	16	16	16	
6.12	Drug Use Problems				
	ASIST (WHO) (ASIS1-ASIS5) (past 3M)	5	5	5	
7	Consequences of use				
	(asked of users of all drugs except tobacco)				
7.1	Alcohol Harm (AHAR1-AHAR8)	8	8	8	
7.2	Illicit Drugs Harm (DHAR1-DHAR8)	8	8	8	
	(ask non-users)				
7.3	Reasons for not using (HCRN1 - HCRN2)	2	2	2	
8	Victimization				
	(asked only of respondents aged 18 and older)				
8.1	Alcohol - harm from others (OPD1-OPD5)	4	4	4	
8.2	Violence (VIC1-VIC9)	9	9	9	
8.3	Cost victimization (CV1-CV4)	4	4	4	
	AACH AACH AACH AACH AACH AACH AACH AACH	_			
8.4	Willingness to pay (WTP1-WTP6)	6			
9	Attitudes, Opinions, Policy (Block 2)				
9.1	Govt. programs to reduce use/conseq (HCP41-HCP54)	14			
9.2	Drug use impact on society (HCP55- HCP62)		8		
	Main cause of drug problem (HCP63)		1		
	Most likely at risk? (HCP64)		1		
	Prevention/treatment OR Incarceration (HCP65)		1		
9.3	Alcohol Policy (ALCP1-ALCP6)			6	
9.4	Drug Policy (DRP1-DRP6A)			11	
9.5	Cannabis Policy (CANP1-CANP5)			5	
9.6	Cannabis driving (CAND2-CAND3)			2	
10	Driving and substance use (ADR1-DCD2)		12		
					_
11	Treatment (T1 - T17K)				

Canad	dian Addiction Survey (CAS) 2004 - ITEM ALLOCATION				
	National Sample (Total N = 13909) Panels (N) Variables description (variable name)	PANEL A 4612 No. of items	PANEL B	PANEL C	
			4639 No. of items	4658 No. of items	
	Yes effort/Yes treatment	3	3	3	
	Needed treatment (past 12M only)?	8	8	8	
	Made effort? (Y/N)	1	1	1	
	Yes effort/No treatment (why?)	8	8	8	
	No effort (why?)	11	11	11	
12	Demographics (MSCN-FSA)	21	21	21	
13	Administrative	3	3	3	
	TOTAL ITEMS (for each panel)	282	286	324	