Tobacco Use 2000-2014:

Insights from The Canadian Community Health Survey

Final report

Physicians for a Smoke-Free Canada July, 2016

Submitted to Health Canada Contract Number: 4500339975

1 Introduction and Organization of Report

This report is organized in 18 short sections. Each section is linked to one or more Excel workbooks.

Section	Topic Area	Related Excel Sheets
Α	Introduction	
В	Core Demographics	
	B1. Smoking status by sex and age at survey	Basic-Ageandsex.xlsx Basic-Ageandsex-Waterfall.xlsx
	B2. Smoking status in the context of demographic changes in Canada	<u>ChangingDemographic-AgePyramid.xlsx</u> <u>ChangingDemographic-</u> <u>GenerationalCohort.xlsx</u>
	B3. The growing gender gap	<u>Gender.xlsx</u>
С	Smokers' attitudes and status changes	
	C1. Starting smoking	<u>Starting-daily.xlsx</u> <u>Starting-First Cigarette</u>
	C2. Quitting Smoking	<u>Quitting.xlsx</u> <u>Basic-Ageandsex.xlsx</u> <u>Province-RecentQuits.xlsx</u>
	C3. Occasional Smoking	Consumption.xlsx Occasional.xlsx
	C4. Self-reported health status	<u>Healthstatus.xlsx</u>
D	Socio-Economic Factors	
	D1. Education	<u>Education.xlsx</u> <u>School.xlsx</u>
	D2. Income	Incomequintile.xlsx Food Insecurity
	D3. Occupation	Occupational Groups.xlsx Workstatus.xlsx
	D4. Immigration	<u>Immigration.xlsx</u>
	D5. Visible Minorities	<u>Visibleminority.xlsx</u> <u>Visibleminority-province.xlsx</u> <u>Visibleminority-income-origin.xlsx</u>
E	Household circumstances	
	E1. Household and family circumstances	MaritalStatus.xlsx Living Arrangement.xlsx Homeownership.xlsx Languageathome.xlsx
F	Secondhand smoke	
	F1. Exposure to secondhand smoke	<u>Secondhandsmoke.xlsx</u>
G	Geography	
	G1. Geographic factors	<u>Province.xlsx</u> <u>PeerGroup.xlsx</u>
Н	Mental Health and Substance Use	
	H1. Cannabis dependence and Cannabis use	<u>Cannabis-abuse.xlsx</u> <u>Cannabis-use.xlsx</u>
	H2. Self-reported health status and assessment of mental health disorders	Mentalhealth.xlsx Mentaldisorder.xlsx Depressionandanxiety.xlsx

2 KEY FINDINGS

Canada continues to make progress against smoking

Between Cycle 1 and Cycle 7, there was an overall drop of 1.1 million in the number of Canadian Smokers.

The percentage of Canadians who smoked (daily or occasionally) fell by one-quarter – from 26% of Canadians aged 12 or over to 19%. There was no statistical change in the percentage of former smokers between Cycle 1 and Cycle 7, but there was an almost 7 percentage point increase in the percentage of Canadians who Never Smoked (From 37% to 44%)

Better prevention is driving success.

The greater contribution of improvements in the prevention of smoking onset than improvements in cessation is reflected in the population changes during the period. Of the 4 million more people represented by Cycle 7, there was an increase of 3.52 million more Never Smokers, with 1.67 additional Former Smokers and a decrease of 1.1 million Current Smokers.

Canada's population is aging and changing – and this affects the smoking rate.

Births, deaths and immigration altered Canada's population during the survey period. Baby-boomers are entering late middle-age and their senior years — the same years that tobacco-related diseases become more evident. One and a half million Canadians born before 1933 left the survey population. The 2 million immigrants and 4.5 million Canadians born after 1984 have different smoking profiles, and are contributing to reducing smoking rates.

The gender gap is growing.

Smoking is again becoming a men's health issue. Women made up 47% of Current Smokers in Cycle 1, but only 43% in Cycle 7. The gap is more pronounced in the younger age groups, where 6 in 10 smokers are male. Smoking status improved for both men and women during the survey periods, but there were 730,000 more women who benefitted than men.

The number of teenagers who smoke even 1 cigarette has fallen by half.

Between Cycle 1 and Cycle 7, the percentage of teenagers (aged 12 to 19) who had smoked even 1 cigarette dropped from 33% to 16%.

The average age of smoking initiation is rising.

In Cycle 1, the majority of smokers smoked their first cigarette before the age of 15. By Cycle 7, the majority started after the age of 15. Although smoking initiation is still a pediatric issue, an increasing number of smokers report having started after the age of 20. In Cycle 7, 1 in 5 daily smokers in their 20s reported starting to smoke daily after the age of 20.

One million new young smokers have come on stream since 2000.

Young Canadians are less likely than their parents' generation to smoke, but there were nonetheless 1 million new smokers who entered the survey population between Cycle 1 and Cycle 7. These new smokers partially offset a reduction during this period of 1.5 million smokers in the population born before 1984.

Many "Former Smokers" have a short smoking history

One-third of former smokers are categorized as "Former Smokers", but have only smoked between 1 and 100 cigarettes. This proportion of former smokers did not change over the survey periods.

Fewer Canadians report being recent quitters

In Cycle 7, about 500,000 Canadians who had smoked more than 100 cigarettes in their lifetime reported having quit in the past year. This number declined over the decade since Cycle 2.

A growing share of smokers do not smoke on a daily basis.

The percentage of current smokers who are occasional smokers grew from 17% in Cycle 1 to 25% in Cycle 7. Among teenagers (aged 12 to 19), the share grew from one-third to one-half, and among Canadians in their 20s, it grew from one-quarter to more than one-third.

Occasional smokers who were once daily smokers are heavier smokers than those who were not.

Occasional Smokers who once smoked on a daily basis report smoking on more days a month and smoking more cigarettes on those days than do Occasional Smokers without that history, and consume about three times as many cigarettes in a year. (They report smoking less than one tenth of the number of cigarettes that daily smokers say they smoke).

Smokers are more likely to think they are not in good health.

Between Cycle 1 and Cycle 7, the number of smokers who considered themselves in "excellent" health fell (by 40%) and the number who believed their health was poor grew (by 35%).

Children from more educated families are less likely to smoke.

Current smoking among teenagers was twice as high in households where there was no member who had completed university, college or other post-secondary qualifications.

Better educated Canadians are no less likely to try smoking, but they are more likely to quit.

Among those who ever smoke, there is a greater likelihood of being a quitter (a higher Quit Ratio) for those whose personal or household level of education includes post-secondary certification. Nonetheless, most Canadian smokers are well-educated: between Cycle 1 and Cycle 7, the proportion of smokers who were post-secondary graduates grew from 2 in 5 (38%) to 1 in 2 (48%).

Young people who leave school are vulnerable to smoking initiation.

Smoking rates among young Canadians who have left school are more than twice as high as for those who remain in school. Two-thirds of smokers under 24 are no longer in school (as are half of smokers aged 18 to 19).

Poor Canadians are less likely to have tried smoking than are rich Canadians, but if they do they are much less likely to quit.

The CCHS data supports the view that the difference in smoking rates between income groups is not due so much to the difference in smoking initiation as it is to the likelihood of success in quitting.

1 in 7 smokers (15%) experiences some level of food insecurity.

One-half (48%) of Canadians who are experiencing severe food insecurity are smokers (267,800 \pm 30,500 smokers), as are one-third (32%) of those who are experiencing moderate food insecurity (398,500 \pm 38,300 smokers).

In gender-based occupations, smoking rates are higher

Men and women who work in 'white collar' and knowledge-fields are less likely to smoke than are those who work in 'blue collar' or 'pink collar' jobs. More than one-third (38%) of male smokers in the workforce (and almost no women smokers) work in the Trades. An equivalent proportion of women work in "sales and service" jobs. Men and women in these occupational fields who have ever smoked are much less likely to have quit than are those in white collar jobs.

Immigration is a driver of Canada's population growth, and contributes to its progress against smoking.

Immigrants are slightly more than half as likely to be smokers as non-immigrant Canadians (12% vs. 21%), with Immigrant women having especially low smoking rates. Immigrants made up an increasing share of the Canadian population during the period between Cycle 1 and Cycle 7 (from 21% to 24%), and thus helped drive down Canada's smoking rates. Immigrants who have ever smoked are more likely to have quit than are non-immigrant Canadians. One in 6 Canadian smokers is an immigrant.

"Visible minority" Canadians are less likely to smoke than are "white" Canadians.

The data do not allow a review of different racial or cultural groups, and communities known to have higher smoking rates (i.e. Aboriginal Canadians) are grouped with other "visible minority" populations. Overall, one-quarter of Canadians are considered to be "visible minorities", but less than one-fifth of smokers are. The difference is more pronounced for women than for men. There is no difference in smoking rates between white and visible minority Canadians for those people who were born in Canada.

Marriage is associated with smoking cessation.

Although married people make up one-half of the population, they make up only one-third of those who smoke. Ever smokers who are married (as opposed to living common law, being separated or divorced or single) are more likely to quit.

Home ownership is associated with for smoking cessation.

Across all income levels, those who live in a home owned by a family member are less likely to quit than are those who are renters.

One-tenth of Canadian teenagers are regularly exposed to second hand smoke.

11% of teenagers (aged 12 to 19) report daily exposure to secondhand smoke in cars and also in their homes. Those who come from poorer households are more likely to report exposure: there are three times as many young people exposed in the poorest fifth of households as in the wealthiest fifth.

Canadians who have met the criteria for Cannabis abuse or dependence are more likely to be cigarette smokers

Almost 2 million Canadians were identified as having met the lifetime criteria for Cannabis abuse or dependence (about 20% of the 9.5 million Canadians who have used Cannabis more than once in their lifetimes). Almost half of these Canadians (46%) are current smokers.

Cannabis users are more likely to be cigarette smokers.

Those who report having used cannabis on two or more occasions in the past year are more than twice as likely to report being a current smoker. One-half of those with past year cannabis use $(49\% \pm 4\%)$ are current smokers.

Young cigarette smokers are more likely to use Cannabis

Current smokers (aged 15 to 24) are more likely to report using Cannabis in the past year than are former smokers or never smokers. 6 in 10 cigarette smokers has used Cannabis in the past year, compared with 4 in 10 former smokers and 1 in 10 never smokers.

One-half of smokers have met the criteria for at least one mental or substance use disorder in their lifetime.

1 in 2 Canadian smokers met the criteria for at least one mental or substance use disorder, compared with 1 in 3 in the general population. Among those who experienced these mental or substance use disorders in the past year, smoking rates were more than double those of Canadians without these challenges (38% vs. 16%).

1 in 5 women who smoke have been diagnosed with a mood disorder.

Canadians facing mental health challenges often carry the additional burden of tobacco use, with smoking rates double that of the unaffected population (34% vs. 17%) for both mood and anxiety disorders. 1 in 10 (8%) Canadian smokers experienced a major depressive episode in the past year.

3 METHODS

This project was completed using the approach laid out in the contract and further defined in a meeting with the project Authority on December 16, 2015.

The following steps were taken to build the data tables and the estimates on them:

- Acquisition of the Public Use Microdata Files (PUMF) from Statistics Canada for 7 Cycles of the Canadian Community Health Survey, as well as the PUMF for the 2012 Mental Health component
- Extraction of weighted and unweighted estimates from the PUMF, using SPSS software.
- With rare exception, data was only used for which national-level information was available. Information based on the optional content chosen by some provinces was not accessed.
- Care was taken to ensure comparability of variables over the survey period. A Content Tracking Tool
 developed by the <u>Population Health Improvement Research Network</u> was accessed for Cycles 1 to 4, and
 use of estimates from subsequent cycles was verified against that tool
- Verification that all estimates met the quality guidelines of an unweighted sample size of 30 or more.
- Assignment of Coefficients of Variation (CV), using the tables provided with the PUMF.¹
- Creation of Excel tables displaying the estimates, the coefficients of variation, the 95% Confidence Interval limits, the proportion of the population/percentage (where applicable) and the 95% Confidence Interval limits on that proportion. A pivot-table friendly version was also created for most topic areas.
- Calculations and graphing was performed on the data in the Excel tables.
- Colour-coding of cells in which Coefficients of Variation were displayed in order to flag those for which the CV was marginal (between 16.6 and 33.3) or unacceptable (over 33).
- Calculation of 95% Confidence Intervals, following the methods outlined in the CCHS PUMF User Guide.²
- Standard Error and Coefficients of Variation for differences between estimates were, where applicable, established using the methods outlined in the CCHS PUMF User Guide.³
- Coefficients of variation for ratios were calculated using the methods outlined in the CCHS PUMF User Guide.⁴

4. Coefficients of Variation for ratios were calculated using the formula of the ratio, and the estimates (1) and (2).
$$\alpha_{\hat{R}} = \sqrt{{\alpha_1}^2 + {\alpha_2}^2}, \text{ where } \alpha \text{ is the Confidence Interval}$$

^{1.} To allow for more data to be analyzed in the time constraints of the contract, the same CV was used for proportions as for aggregates. The effect of this is to overstate the 95% Confidence Interval for some values where narrower intervals might be established.

^{2. 95%} Confidence intervals were calculated u sing the formula, CI X = [X - 2 X $\alpha_{X^{\circ}}$, X + 2X $\alpha_{X^{\circ}}$], where X $^{\circ}$ is the estimate and α is the coefficient of variation.

^{3.} Standard Error was calculated using the formula $\sigma_d = \sqrt{(\hat{X}_1 \alpha_1)^2 + (\hat{X}_2 \alpha_2)^2}$ where σ is the standard error, X^ is the estimate and α is the coefficient of variation. Coefficients of Variation for a difference (d) were calculated by dividing the standard error by the difference (σ_d /d)

Quality guidelines for publication of CCHS data require that all estimates be rounded to the nearest 100 units. This was not done on the Excel tables built from the PUMF, nor on the summary tables provided in the accompanying text. Rounding should be applied before these estimates are published or used externally.

4 OTHER

• A review of the development of the Canadian Community Health Survey is beyond the scope of this project. Further information on the survey and the methodology used in it is obtainable from Statistics Canada.

The 7 Cycles of the CCHC used in this project were conducted on the dates shown in the table below.

Name used in report	Statistics Canada Name	Collection Period
Cycle 1	Cycle 1.1	September 1, 2000 to November 3, 2001
Cycle 2	Cycle 2	January to December (2003)
Cycle 3	Cycle 3.1	January to December (2005)
Cycle 4	Cycle 4.1	January 2007 to December 2008
Cycle 5	2009-2010	January 2009 to December 2010
Cycle 6	2011-2012	January 2011 to December 2012
Cycle 7	2013-2014	January 2013 to December 2014

• The Excel files are secured to protect against accidental changes. The password to gain the ability to amend them is "smoking".

5 DEFINITIONS

Smoking status refers to smoking cigarettes, and is described using the following terms.

Smoker: When used alone, means "Current Smoker"

Current smoker:

A person who identifies themselves as someone who smokes on a daily basis or on an occasional basis.

Daily smoker:

A person who identifies themselves as someone who smokes on a daily basis.

Ever Smoker

A person who identifies themselves as having smoked at least 1 whole cigarette in their lifetime.

Former smoker

A person who identifies themselves as having smoked at least 1 whole cigarette, but does not now smoke.

Former daily smoker

A person who identifies themselves as having once smoked daily, but does not now smoke.

Never smoker

A person who identifies themselves as not having ever smoked a whole cigarette.

B1: Core Demographics

1 THE MEASUREMENT OF SMOKING STATUS

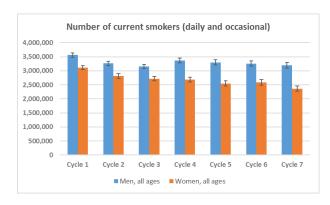
Throughout all cycles of the CCHS, the same questions and derived variables have been used to measure smoking status. This measurement is based on smoking behaviour as reported by survey respondents, without any biological confirmation. ¹

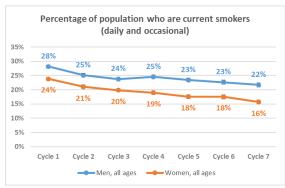
Consistent with practice elsewhere, the 6 smoking status variables provided by the CCHS are categorized in this review into a 3 or 4 variables, as shown in the table below.

6 Variable	4 Variable	3 Variable		
Daily Smoker	Daily Smoker			
Occasional Smoker (always) Occasional Smoker (former daily)	Occasional Smoker	Current Smoker		
Former Smoker (daily) Former Smoker (occasional)	Former Smoker	Former Smoker		
Never Smoker	Never Smoker	Never Smoker		

1.1 MEASURABLE PROGRESS

Between Cycle 1 and Cycle 7, there was an overall drop in the number of Current Smokers from 6,673,000 (\pm 106,800) to 5,563,400 (\pm 133,500), representing a reduction in the absolute number of smokers by about one-sixth (17%), or 1.1 million people. Because the overall population increased, the prevalence decline was even greater: from 26% \pm 0.4% to 19% \pm 0.4%, representing a reduction of current smoking prevalence by more than one-quarter (28%).





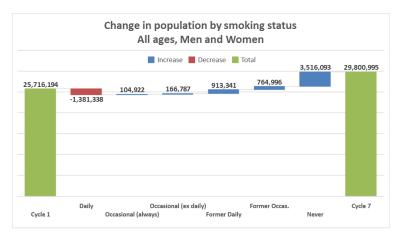
1. The results of the CCHS have been compared against surveys which include biological markers. See: Statistics Canada, Health Reports, Volume 23, Number 1. Assessment of validity of self-reported smoking status. Wong, S. et al.

1.1.1 The Sum of the Parts: More never smokers, more quitters, fewer smokers.

The change in the absolute number of Current Smokers and the prevalence of Current Smoking is a result of several factors. Reductions in smoking rates can result from smokers dying, from smokers quitting or when a greater percentage of the population never starts to smoke.²

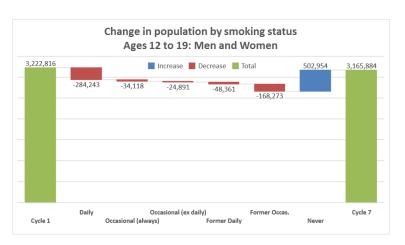
The survey results suggest that the drop in smoking in Canada during this period can be attributed to all three factors.

The relatively greater impact of increases in the number of people who have never smoked in comparison to those who have



quit smoking can be illustrated by comparing the population changes. The survey population grew during this period by 4 million Canadians. Between Cycle 1 and Cycle 7, there were 1.7 million additional Former Smokers (918,000 Former Daily Smokers and 765,000 Former Occasional Smokers). The increase in the number of Never Smokers was more than twice as large, (3,516,100) as the number of Former Smokers and almost as large as the increase in population.

Progress in reducing smoking initiation is shown with the increase of Never Smokers by the age group 12-19 in Cycle 1 (i.e. born between 1981 and 1989) and the same age range in Cycle 4 (i.e. born between 1994 and 2002). While the total population of this age group fell, the number of Never Smokers increased from 2.14 million (± 34,300) to 2.64 million (± 63,500). Because everyone else is included as an Ever Smoker, this population decreased by the same amount.



^{2.} The population surveyed in Cycle 7 is not the same as the population surveyed in Cycle 1. Statistics Canada reports that between 2000-2001 and 2013-2014 there 3,290,843 deaths in Canada, and that the survey population of people 12 years and over would have also been influenced by those 4,775,012 people born between 1989 and 2001. (Cansim Table 051-004). Other population changes would include emigration and immigration. The smoking status of those who leave the surveyed population (either through death or emigration) is not known. The smoking status of those who join the surveyed population (through birth or immigration) is addressed through questions focused on age and immigration status, and is presented in a separate section of this report.)

1.1.2 Fewer Current Smokers and More Never Smokers

Over half of the 7 percentage point drop in current smoking rates between Cycle 1 and Cycle 7 resulted from a

change in smoking behavior among men aged 30 to 44 at the time the survey was conducted (1.9 percentage points) and women aged 30 to 44 at the time the survey was taken (2.1 percentage points).

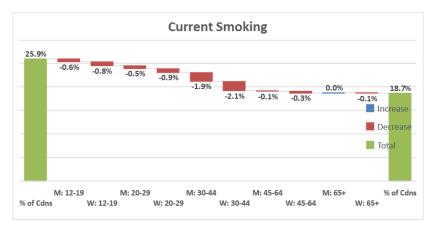
This does not reflect quitting behaviour among the cohort who were in that age group at Cycle 1. Those who were in the 30 to 44 age group in Cycle 1 were in the 45 to 64 age group in Cycle 7.

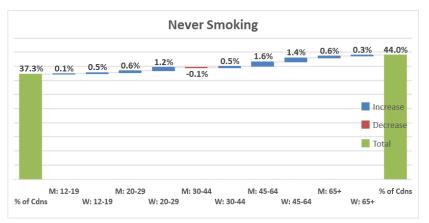
The 7 percentage point increase in the rate of never smoking similarly reflects an accumulation of intergenerational progress in never smoking (i.e. decrease in smoking initiation), as well as the potential impact of immigration.

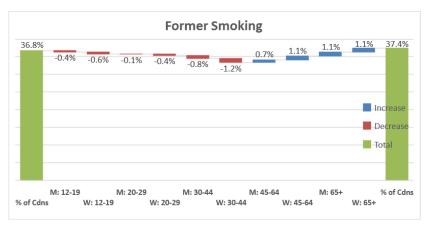
There was no statistically significant increase or decrease in the percentage of Canadians who were Former Smokers (Former Daily or Former Occasional Smokers) between Cycle 1 and Cycle 7, remaining at 37%. This results from the increase in Former Smokers within the older age groups being averaged out by the reduction in ever smoking within the younger age groups. (To be a Former Smoker you must once have been a smoker.)

Waterfall graphs of changes between any two Cycles are presented in the Excel workbook: <u>B1-Basic-AqeandSex-</u> <u>Waterfall.xlsx</u>.³

Change in prevalence of smoking status, Cycle 1 to Cycle 7







^{3.} These are viewable only with Excel2016 or later versions.

2 TECHNICAL BACKGROUND

Variables used:

- SMKDSTY, DHHGAGE, DHH_SEX
- Age grouping used was chosen to match those for which Coefficients of Variation were available in CCHS technical documentation.

Related Excel files:

- <u>Basic-Ageandsex.xlsx</u>
 - o Table 1: Number of People and Prevalence, by Smoking Status
 - Table 2: Share of Current Smokers and Quit Ratio
- Basic-Ageandsex-Waterfall.xlsx
 - o Table 1: Waterfall-Prevalence
 - o Table 2: Waterfall-Number of People

3 SUMMARY TABLES

3.1.1 Smoking Status for Men, CCHS Cycles 1 to 7.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Aged 12-19 Current Smoker (daily or accessional)	17 00/	1.4.40/	11 00/	13 40/	12.7%	0.60/	0.40/
Current Smoker (daily or occasional)	17.8%	14.4%	11.9% 6.8%	12.4%		9.6%	9.4%
Daily Smoker Occasional Smoker (all)	12.2% 5.5%	8.9% 5.5%	5.8% 5.2%	7.7% 4.7%	7.3% 5.4%	5.3% 4.3%	4.3% 5.1%
• •	3.8%	3.7%	3.8%	4.7% 3.6%	5.4% 4.1%	4.5% 3.5%	3.6%
Occasional Smoker (always) Occasional Smoker (former daily)	3.8% 1.7%	1.8%	1.3%	3.6% 1.2%	4.1% 1.2%	0.8%	3.6% 1.5%
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Former Smoker (daily or occasional)	14.7% 2.5%	14.5% 2.1%	11.5% 1.6%	10.6% 1.6%	9.6% 1.2%	8.8% 0.8%	9.6% 1.2%
Former Smoker (daily)							
Former Smoker (occasional)	12.2%	12.4% 71.1%	9.9%	9.1%	8.3%	7.9% 81.7%	8.4% 81.0%
Never Smoker	67.5%	/1.1%	76.5%	76.9%	77.8%	81.7%	81.0%
Aged 20 - 29	270/	260/	2.40/	250/	220/	240/	240/
Current Smoker (daily or occasional)	37%	36%	34%	35%	32%	31%	31%
Daily Smoker	30%	24%	24%	25%	21%	21%	19%
Occasional Smoker (all)	8%	11%	10%	10%	10%	10%	12%
Occasional Smoker (always)	3%	5%	4%	5%	6%	5%	6%
Occasional Smoker (former daily)	4%	6%	6%	5%	5%	5%	5%
Former Smoker (daily or occasional)	27%	29%	28%	28%	26%	26%	26%
Former Smoker (daily)	10%	12%	11%	11%	9%	9%	8%
Former Smoker (occasional)	17%	17%	17%	17%	17%	17%	18%
Never Smoker	36%	36%	39%	38%	42%	43%	43%
Aged 30 - 44	2.451	0.454	2651	0.657	2==/	2001	
Current Smoker (daily or occasional)	34%	31%	29%	30%	27%	28%	27%
Daily Smoker	29%	24%	23%	23%	20%	21%	19%
Occasional Smoker (all)	5%	6%	7%	6%	7%	7%	7%
Occasional Smoker (always)	2%	2%	3%	2%	2%	3%	2%
Occasional Smoker (former daily)	3%	4%	4%	4%	4%	5%	5%
Former Smoker (daily or occasional)	35%	39%	38%	36%	35%	37%	37%
Former Smoker (daily)	19%	20%	19%	19%	18%	18%	19%
Former Smoker (occasional)	16%	18%	19%	17%	17%	18%	17%
Never Smoker	31%	30%	33%	34%	37%	35%	37%
Aged 45 - 64							
Current Smoker (daily or occasional)	28%	24%	24%	25%	26%	25%	23%
Daily Smoker	25%	21%	20%	22%	22%	21%	19%
Occasional Smoker (all)	3%	4%	4%	3%	4%	4%	4%
Occasional Smoker (always)	1%	1%	1%	1%	1%	1%	2%
Occasional Smoker (former daily)	2%	3%	3%	2%	3%	3%	3%
Former Smoker (daily or occasional)	51%	55%	54%	50%	49%	50%	48%
Former Smoker (daily)	37%	40%	39%	36%	34%	33%	32%
Former Smoker (occasional)	14%	15%	15%	14%	15%	16%	16%
Never Smoker	21%	21%	22%	24%	25%	26%	28%
Aged 65+							
Current Smoker (daily or occasional)	13%	12%	11%	12%	11%	10%	11%
Daily Smoker	12%	10%	10%	10%	9%	9%	9%
Occasional Smoker (all)	2%	2%	1%	2%	2%	1%	2%
Occasional Smoker (always)	0%	0%	0%	0%	0%	0%	0%
Occasional Smoker (former daily)	1%	1%	1%	1%	2%	1%	1%
Former Smoker (daily or occasional)	68%	70%	69%	68%	67%	68%	67%
Former Smoker (daily)	55%	56%	56%	55%	53%	53%	51%
Former Smoker (occasional)	13%	13%	13%	14%	14%	14%	16%
Never Smoker	19%	19%	20%	20%	22%	22%	23%
All Ages	1370	1370	2070	2070	22/0	22/0	23/0
Current Smoker (daily or occasional)	28%	25%	24%	25%	23%	23%	22%
Daily Smoker	28% 24%	25% 19%	18%	25% 19%	23% 18%	23% 17%	22% 16%
•							
Occasional Smoker (all)	5%	6% 3%	5% 2%	5% 2%	6% 2%	5% 2%	6% 3%
Occasional Smoker (always)	2%	2%	2%	2%	2%	2%	3%
Occasional Smoker (former daily)	3%	3%	3%	3%	3%	3%	3%
Former Smoker (daily or occasional)	40%	43%	42%	40%	40%	41%	41%
Former Smoker (daily)	25%	27%	26%	26%	25%	25%	25%
Former Smoker (occasional)	15%	16%	16%	15%	15%	16%	16%
Never Smoker	32%	32%	34%	35%	37%	37%	38%

 $Numbers\ of\ individuals,\ coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ \underline{\text{``Basic-AgeandSex.xlsx''}}.$

3.1.2 Smoking Status for Women, CCHS Cycles 1 to 7

A d 12 10	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle :
Aged 12-19 Current Smoker (daily or occasional)	19.9%	15.3%	12.3%	10.8%	9.6%	9.1%	7.1%
Daily Smoker	13.7%	9.3%	7.0%	6.6%	5.4%	5.0%	4.1%
Occasional Smoker (all)	6.2%	6.0%	5.3%	4.3%	4.2%	4.1%	3.0%
Occasional Smoker (always)	4.2%	3.7%	3.7%	3.2%	2.9%	3.1%	2.4%
Occasional Smoker (former daily)	2.0%	2.3%	1.6%	1.1%	1.2%	1.0%	0.6%
, , , , , , , , , , , , , , , , , , , ,							
Former Smoker (daily or occasional)	14.9%	13.9%	12.2%	10.0%	9.5%	8.0%	6.7%
Former Smoker (daily)	2.7%	2.2%	2.3%	1.8%	1.5%	1.3%	1.0%
Former Smoker (occasional)	12.2%	11.7%	9.9%	8.2%	8.0%	6.7%	5.7%
Never Smoker Aged 20 - 29	65.3%	70.8%	75.5%	79.2%	80.9%	83.0%	86.2%
Current Smoker (daily or occasional)	31%	28%	27%	26%	23%	23%	20%
Daily Smoker	23%	20%	18%	19%	15%	15%	13%
Occasional Smoker (all)	8%	9%	9%	7%	8%	8%	7%
Occasional Smoker (always)	3%	3%	4%	3%	3%	4%	4%
Occasional Smoker (former daily)	4%	6%	5%	4%	5%	5%	4%
Former Smoker (daily or occasional)	27%	30%	29%	28%	26%	24%	23%
Former Smoker (daily)	11%	13%	13%	14%	11%	10%	9%
Former Smoker (occasional)	16%	17%	16%	15%	15%	14%	14%
Never Smoker	42%	42%	44%	46%	51%	53%	57%
Aged 30 - 44	200/	250/	220/	220/	200/	200/	100/
Current Smoker (daily or occasional)	29%	25%	23%	22%	20%	20%	18%
Daily Smoker	24%	19%	18%	17%	15%	15%	13%
Occasional Smoker (all)	5%	5%	6%	5%	5%	5%	5%
Occasional Smoker (always)	2%	1%	2%	2%	2%	2%	1%
Occasional Smoker (former daily)	3%	4%	4%	3%	3%	3%	3%
Former Smoker (daily or occasional)	36%	38%	36%	34%	33%	34%	34%
Former Smoker (daily)	21%	21%	19%	18%	17%	18%	18%
Former Smoker (occasional)	15%	17%	17%	15%	16%	16%	16%
Never Smoker	35%	37%	41%	45%	47%	46%	48%
Aged 45 - 64							
Current Smoker (daily or occasional)	24%	22%	21%	21%	20%	20%	18%
Daily Smoker	21%	19%	18%	18%	17%	17%	15%
Occasional Smoker (all)	3%	3%	4%	3%	3%	3%	3%
Occasional Smoker (always)	1%	1%	1%	1%	1%	1%	1%
Occasional Smoker (former daily)	2%	2%	2%	2%	3%	3%	2%
Former Smoker (daily or occasional)	41%	44%	44%	42%	43%	42%	42%
Former Smoker (daily)	27%	29%	30%	28%	28%	28%	27%
Former Smoker (occasional)	14%	15%	15%	14%	15%	14%	16%
Never Smoker	35%	34%	35%	37%	36%	38%	39%
Aged 65+	3370	3.75	3373	37,75	3075	3071	3370
Current Smoker (daily or occasional)	11%	10%	10%	10%	9%	9%	9%
Daily Smoker	9%	9%	8%	8%	8%	8%	7%
Occasional Smoker (all)	2%	2%	2%	2%	2%	1%	1%
Occasional Smoker (always)	1%	0%	1%	0%	0%	0%	0%
Occasional Smoker (former daily)	1%	1%	1%	1%	1%	1%	1%
Former Smoker (daily or occasional)	39%	42%	42%	42%	43%	44%	45%
	26%	27%	42% 27%	29%	43% 29%	30%	30%
Former Smoker (daily)							
Former Smoker (occasional)	14%	15%	15%	13%	14%	14%	15%
Never Smoker	50%	48%	48%	49%	48%	46%	46%
All Ages	2/10/	210/	200/	100/	18%	100/	1.00/
Current Smoker (daily or occasional)	24%	21%	20%	19%		18%	16%
Daily Smoker	19%	16%	15%	15%	13%	13%	12%
Occasional Smoker (all)	4%	5%	5%	4%	4%	4%	4%
Occasional Smoker (always)	2%	2%	2%	2%	2%	2%	1%
Occasional Smoker (former daily)	2%	3%	3%	2%	3%	3%	2%
Former Smoker (daily or occasional)	34%	36%	36%	34%	34%	34%	34%
Former Smoker (daily)	19%	21%	21%	20%	20%	20%	20%
Former Smoker (occasional)	15%	15%	15%	14%	14%	14%	14%
		43%				48%	

 $Numbers\ of\ individuals,\ coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "Basic-AgeandSex.xlsx".$

B2: Changing Demographics

1 POPULATION SHIFTS ARE REDUCING SMOKING RATES.

1.1 CANADA IS GETTING OLDER.

Between Cycle 1 and Cycle 7, there was a general aging of the Canadian population. The median age of Canadians in 2014 was 40.4 years, compared with 36.8 years in 2000.⁴

The current age profile of Canadians, particularly with the population of the baby boomers (In 2011, 29% of the Canadian population), can affect smoking prevalence in the following ways:

An aging population will lose smokers to quitting.

As the population ages, the proportion of Former Smokers to Current Smokers will normally increase, all other things being equal, because as smokers age they are more likely to have succeeded in quitting. A population cohort of smokers that is aging, relative to the general population, will result in reduced smoking rates that flow from normal age-related patterns of cessation.

An aging population will lose more smokers to death.

The mean age of death from diseases caused by smoking is 71 for men and 73 for women.⁵ A population of smokers moving into this age group will result in a reduction in the number of Current Smokers and Former Smokers resulting from death. Because smoking presents an increased risk of premature death for Former Smokers as well as for Current Smokers (and thus influences both the numerator and the denominator of a prevalence ratio), this will not necessarily result in a lower smoking rate.

Smoking is a generational phenomenon.

Initiation rates among younger cohorts are lower than their predecessors. As the Canadian population ages, the proportion of Never Smokers will increase.

Despite the aging population, the presentation of smoking prevalence data in Canada is not traditionally ageadjusted. This creates the potential for reductions in smoking that are the result of our aging population to be attributed to other factors.

1.1.1 A changing age profile.

Age pyramids (shown on the next page) show the changing age profile of Canadians with respect to smoking status. In Cycle 1, almost one-half (46%) of Current Smokers were in the age range of 30 to 49 years, and almost one-quarter (24%) of Current Smokers were over 50 years of age. By Cycle 7, the 30 to 49 year old group represented only 37% of smokers, while the over 50 age group had grown to 36%.⁶

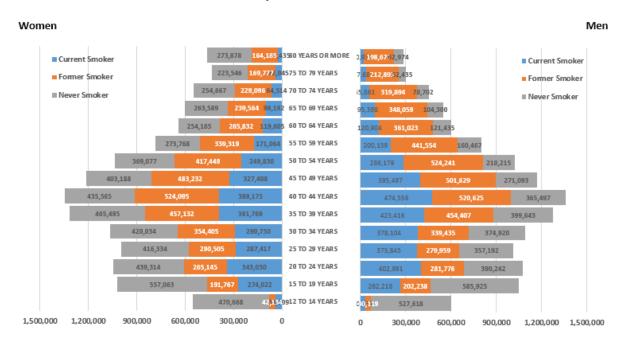
The relative increase of baby boomers within the population (Canadians born in the 1940s to early 1960s) is now moving into the upper brackets of the age pyramid. This can be seen in the increasingly skewed shape of the age pyramid.

^{4.} Statistics Canada. CANSIM 051-0001

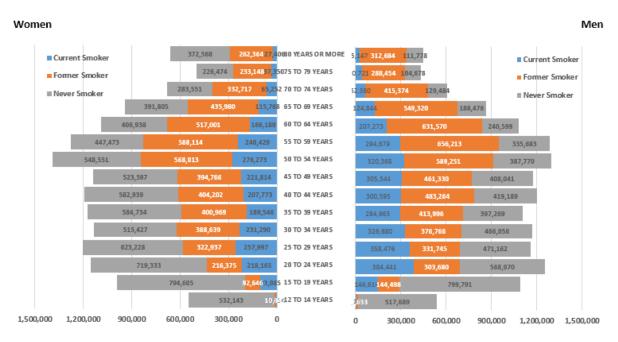
^{5.} Smoking-attributable mortality and expected years of life lost in Canada 2002: Conclusions for prevention and policy. Dolly Baliunas et al. Chronic Diseases in Canada. Vol. 277, No. 4, 2007.

^{6.} The CCHS Master File provides single years of age for respondents and thus allows the calculation of the mean and median age of smokers. The PUMF data used in this report provides ages only in 5-year categories.

Cycle 1

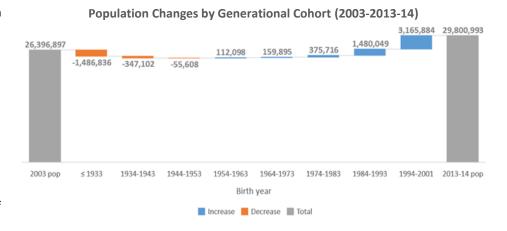


Cycle 7



1.1.2 The "aging out" effect and the components of change in the total population

The overall change in the Canadian population (including the population of smokers) is due to the shifting of generational cohorts. Between Cycle 1 and Cycle 7 there was the emergence of the post-millenial generation and the gradual disappearance of those born in the early third of the 20th century.



To consider changes in smoking behaviour among these distinct generational cohorts, a crude reconstruction of cohorts was established through the use of the 5-year age groupings available in the CCHS PUMF. The smoking status of each cohort in 2003 (Cycle 2) was compared with the smoking status 10 years later in 2013-2014 (Cycle 7). Definitions of each cohort are shown below in the "Technical Background" Section.

In the 10 years between Cycle 2 and Cycle 7 (2003 to 2013-14), there was a net population growth of 3.4 million people, including immigration and emigration, the growth of younger cohorts and the loss of older generations.

- The pre-war generation (those born before 1933) fell by more than one half, from 2.6 million to 1.1 million, with a somewhat greater decline of women than men (838,000 vs. 648,000).⁷ A reasonable presumption is that this loss was the result of death.
- Millenials (the Y2 generation born between 1984 and 1993) made up 1.5 million of the Cycle 7 survey
 population, with equal numbers of men and women. This resulted from the aging-in of those who were under
 12 during Cycle 2, as well as immigration.
- The new post-millenial generation (those born after 1994) added 3 million new people (equal numbers of men and women) to the Cycle 7 survey population.

1.1.3 Components of change in smoker population

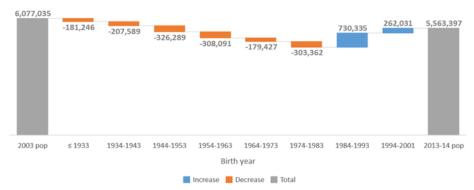
Among those over 30 years of age in 2013, there was a general reduction of 1.5 million Current Smokers between Cycle 2 and Cycle 7. This was reflected in a reduction in smoking prevalence of each generational cohort born before 1983. The loss of women and men Current Smokers was similar (789,000 and 717,000 respectively).

Among those under 30 years of age in 2013, there was an increase of 1 million new Current Smokers between Cycle 2 and Cycle 7. This was reflected in an increase in the smoking prevalence of the youngest generational cohorts as they aged into the survey: none of the respondents in the "post-millenial generation" was old enough to be included in the Cycle 2 survey. The onset of smoking in these young groups added almost 1 million new Current Smokers to Canada (992,000). Of these, two-thirds were men (652,000 additional men and 340,000 women born after 1984).

^{7.} Confidence intervals were not calculated for the analysis of Generational Cohorts, although this is feasible to do.

The combined effect produced an overall decrease of 514,000 smokers in this decade, with a pronounced gender imbalance. Of these, 87% were women, (450,000 fewer women smokers vs. 65,000 fewer men smokers). The growing gender gap is discussed later in this report.

Number of Current Smokers by Generational Cohort (2003 to 2013-14).



1.1.4 Components of change in Former Smoker population

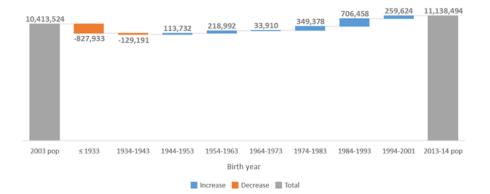
In Cycle 7, there were 1.7 million more Former Smokers in the youngest six age cohorts (those born in 1944 or later) than there were in Cycle 2.

- The number of additional male Former Smokers under 70 years of age exceeded the number of women (1 million vs. 681,000).
- Among the older two age groups (those born on or before 1943), there was a loss of about 1 million Former Smokers (957,000).
- About 60% of the decrease in the number of Former Smokers among those 70 years of age or older was among men (574,000 men vs. 382,000 women).
- The combined effect produced an overall increase of 725,000 Former Smokers in this decade.

The survey does not permit us to know whether those who ceased being Former Smokers died or resumed smoking.

Assuming that the increase in Former Smokers among those under 70 years of age predominantly resulted from quitting smoking (and not death), this suggests that 1.7 million Canadians quit smoking in this decade.

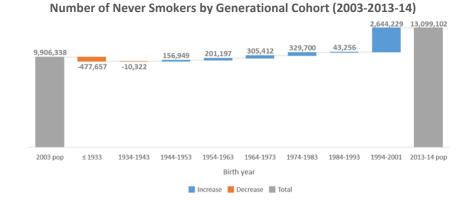
Number of Former Smokers by Generational Cohort (2003-2013-14)



1.1.5 Components of change in Never Smoker population

In Cycle 7, there were 3.6 million more Never Smokers in the youngest six age cohorts (those born in 1944 or later).

Almost three quarters of these Never Smokers (72%) were born between 1994 and 2001 (2.6 million Canadians aged 12 to 19). Based on historical experience, smoking rates will



continue to climb in this cohort as they age through their teens and early 20s.

There were 1 million additional Never Smokers born between 1944 and 1993. This may reflect the effect of immigration, as in Cycle 7, 1.7 million people in these age ranges reported being immigrants who had been in Canada less than 9 years. Almost 9 in 10 of these new Never Smokers were women (900,000 vs. 137,000). Immigration is discussed in another section of this report.

This increase was offset by the loss of about 488,000 Never Smokers in the oldest two generational cohorts (those born before 1944), of whom four-fifths were women (384,000 women vs. 104,000 men).

The combined effect produced an increase of 3.2 million more Never Smokers in this decade, 1.8 million women and 1.3 million men.

2 TECHNICAL BACKGROUND

Variables used:

SMKDSTY, DHHGAGE, DHH_SEX

Related Excel files:

- <u>ChangingDemographic-AgePyramid.xlsx</u>
- ChangingDemographic-GenerationalCohort.xlsx

2.1 ESTABLISHING GENERATIONAL COHORTS

The smoking behavior of generational cohorts was traced between 2003 and 2013-2014 by establishing 8 birth cohorts, each representing a 10 year period of births. The age of survey respondents was aligned with the 5-year age groups in Cycle 2 (2003) and Cycle 7 (2013-2014). Because single-year results for 2013 were not released with the PUMF, information for 2014 was included. The impact of this addition is a slight blurring of the distinctions between cohorts. These should not distract from the general conclusions of the generational review.

			CCHS Age			CCHS Age
Cohort	Birth years	Age in 2003	Group-Cycle 2	Age in 2013	Age in 2014	Group-Cycle 7
Pre-War	1933 and earlier	70 +	13 to 15	80+	81+	16
Post War	1934 to 1943	60 to 69	11 to 12	70 to 79	71 to 80	14 to 15
Boomer1	1944 to 1953	50 to 59	9 to 10	60 to 69	61 to 70	12 to 13
Boomer2	1954 to 1963	40 to 49	7 to 8	50 to 59	51 to 60	10 to 11
GenX	1954 to 1973	30 to 39	5 to 6	40 to 49	41 to 50	8 to 9
GenY1	1974 to 1983	20 to 29	3 to 4	30 to 39	31 to 40	6 to 7
GenY2	1984 to 1993	12 to 19	1 to 2	20 to 29	21 to 30	4 to 5
PostMillenial	1994 and later	n/a		12 to 19	12 to 20	1 to 3

3 SUMMARY TABLES

3.1.1 Share of population for 5 year age groups, Men and Women, CCHS Cycle 1 to 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
	Total population										1 6	l		_
12 +- 14	4.50/				4.20/	2.00/	2.00/	1.00/	0.70/		rent Smo		0.20/	0.20/
12 to 14	4.5%	4.8%	4.6%	4.6%	4.3%	3.9%	3.6%	1.0% 8.0%	0.7%	0.5%	0.5% 6.0%	0.4%	0.3% 4.8%	0.2%
15 to 19	8.1%	7.7%	7.8%	7.4%	7.4%	7.2%	7.0%		7.3%	6.4%		6.0%		4.5%
20 to 24	8.3%	8.1%	8.3%	7.8%	8.0%	8.1%	8.1%	11.2%	11.8%	11.6%	10.8%	10.7%	10.9%	10.8%
25 to 29	7.8% 8.4%	7.8%	7.8%	8.1%	8.0%	8.0%	7.9%	9.9%	10.3%	10.8%	11.5%	10.9%	11.1%	11.1%
30 to 34		7.8%	7.7%	7.8%	7.4%	7.5%	7.7%	10.0%	8.9%	8.8%	9.4%	9.0%	9.8%	10.0%
35 to 39	10.1%	9.4%	8.4%	8.1%	7.9%	7.8%	7.7%	12.2%	11.1%	10.3%	9.3%	8.7%	8.5%	8.7%
40 to 44	10.5%	10.5%	10.3%	9.2%	8.9%	8.2%	8.0%	12.9%	13.4%	12.9%	11.2%	10.1%	10.0%	9.1%
45 to 49	9.3%	8.9%	9.4%	9.4%	9.2%	8.4%	7.8%	10.8%	10.3%	11.3%	11.5%	11.5%	10.1%	9.5%
50 to 54	8.0%	8.3%	8.3%	8.8%	9.0%	9.0%	9.0%	8.0%	9.0%	9.1%	10.0%	10.5%	11.1%	10.7%
55 to 59	6.2%	7.0%	7.3%	7.7%	8.0%	8.3%	8.6%	5.6%	6.5%	6.5%	7.7%	8.7%	9.4%	9.6%
60 to 64	4.8%	5.4%	5.8%	6.1%	6.6%	7.3%	7.3%	3.6%	3.9%	4.8%	4.8%	5.8%	6.1%	6.7%
65 to 69	4.5%	4.3%	4.5%	4.7%	5.2%	5.6%	6.1%	2.9%	2.9%	2.9%	3.3%	3.6%	3.6%	4.3%
70 to 74	3.9%	3.9%	3.8%	3.8%	3.6%	4.0%	4.3%	1.8%	1.9%	2.0%	2.0%	2.0%	2.2%	2.3%
75 to 79	2.9%	3.0%	3.0%	3.1%	3.1%	2.9%	3.1%	1.2%	1.1%	1.2%	1.2%	1.3%	1.1%	1.4%
80 +	2.9%	3.0%	3.2%	3.3%	3.5%	3.7%	3.7%	0.7%	0.8%	0.9%	0.8%	0.9%	0.9%	0.9%
			Former S	mokers				Never Smokers						
12 to 14	0.9%	0.7%	0.5%	0.4%	0.3%	0.2%	0.2%	10.4%	11.6%	10.7%	10.6%	9.6%	8.7%	8.0%
15 to 19	4.2%	3.8%	3.3%	3.0%	2.7%	2.3%	2.1%	11.9%	12.0%	13.0%	12.3%	12.2%	12.7%	12.2%
20 to 24	5.8%	5.7%	5.6%	5.3%	4.9%	4.4%	4.7%	8.7%	8.5%	9.1%	8.5%	9.4%	10.0%	9.8%
25 to 29	6.0%	6.1%	6.2%	6.7%	6.3%	6.4%	5.9%	8.1%	8.0%	7.6%	7.6%	8.0%	8.0%	8.4%
30 to 34	7.3%	7.1%	6.9%	6.8%	6.5%	6.9%	6.9%	8.3%	8.0%	7.8%	7.8%	7.3%	7.0%	7.5%
35 to 39	9.6%	9.4%	7.9%	7.5%	7.2%	7.4%	7.3%	9.0%	8.4%	7.9%	8.1%	8.0%	7.7%	7.5%
40 to 44	11.0%	10.8%	10.4%	9.3%	8.5%	7.1%	8.0%	8.4%	8.5%	8.8%	8.1%	8.6%	7.7%	7.7%
45 to 49	10.4%	10.2%	10.6%	10.0%	10.1%	9.3%	7.7%	7.0%	6.8%	7.1%	7.6%	7.3%	6.8%	7.1%
50 to 54	10.0%	10.2%	10.2%	10.9%	11.1%	10.2%	10.4%	6.0%	5.8%	6.0%	6.2%	6.3%	7.0%	7.1%
55 to 59	8.3%	9.2%	9.8%	9.9%	10.6%	10.5%	11.2%	4.5%	5.0%	5.2%	5.8%	5.5%	5.8%	6.0%
60 to 64	6.6%	7.5%	8.4%	8.7%	9.3%	10.4%	10.3%	3.9%	4.1%	3.8%	4.4%	4.6%	5.2%	4.9%
65 to 69	6.2%	6.0%	6.2%	6.9%	7.6%	8.5%	8.8%	3.8%	3.5%	3.6%	3.5%	3.9%	4.0%	4.4%
70 to 74	5.8%	5.4%	5.4%	5.6%	5.4%	5.9%	6.7%	3.5%	3.5%	3.2%	3.1%	3.0%	3.2%	3.2%
75 to 79	4.0%	4.3%	4.3%	4.3%	4.7%	4.3%	4.7%	2.9%	2.9%	2.6%	2.9%	2.6%	2.6%	2.5%
80 +	3.8%	3.9%	4.3%	4.7%	4.8%	5.2%	5.2%	3.5%	3.4%	3.4%	3.4%	3.7%	3.7%	3.7%
	3.373	3.373	,	,3	,3	3.2,3	3.2,3	3.373	3,3	3,0	3,3	3,3	3,3	5.,,5

Graphs built on this table and additional data may be viewed at ChangingDemographic-AgePyramid.xlsx

3.1.2 Smoking Status by generational cohort, Cycle 2 and 7, Both sexes

Cycle 2

		Current	Former	Never	Total # of	Smoking	Population
Birth year	Age at survey	Smokers	Smokers	Smokers	people	Prevalence	Percentage
before 1933	Over 70	233,799	1,402,981	962,003	2,598,783	9%	9.8%
1934 to 1943	60 to 69	413,293	1,398,884	754,511	2,566,688	16%	9.7%
1944 to 1953	50 to 59	940,364	2,020,139	1,070,868	4,031,371	23%	15.3%
1954 to 1963	40 to 49	1,439,841	2,182,598	1,518,280	5,140,719	28%	19.5%
1964 to 1973	30 to 39	1,215,153	1,709,652	1,628,355	4,553,160	27%	17.2%
1974 to 1983	20 to 29	1,345,841	1,230,992	1,633,785	4,210,618	32%	16.0%
1984 to 1993	12 to 19	488,744	468,278	2,338,536	3,295,558	15%	12.5%
after 1994	n/a						0.0%
Total		6,077,035	10,413,524	9,906,338	26,396,897	23%	100%

Cycle 7

		Current	Former	Never	Total # of	Smoking	Population
Birth year	Age at survey	Smokers	Smokers	Smokers	people	Prevalence	Percentage
before 1933	Over 800	52,553	575,048	484,346	1,111,947	5%	4%
1934 to 1943	70 to 79	205,704	1,269,693	744,189	2,219,586	9%	7%
1944 to 1953	60 to 69	614,075	2,133,871	1,227,817	3,975,763	15%	13%
1954 to 1963	5o to 59	1,131,750	2,401,590	1,719,477	5,252,817	22%	18%
1964 to 1973	40 to 49	1,035,726	1,743,562	1,933,767	4,713,055	22%	16%
1974 to 1983	30 to 39	1,042,479	1,580,370	1,963,485	4,586,334	23%	15%
1984 to 1993	20 to 29	1,219,079	1,174,736	2,381,792	4,775,607	26%	16%
after 1994	12 to 19	262,031	259,624	2,644,229	3,165,884	8%	11%
Total		5,563,397	11,138,494	13,099,102	29,800,993	19%	100%

Graphs built on this table and additional data may be viewed at ChangingDemographic-GenerationalCohort.xlsx

3.2 LENGTH OF TIME SINCE ARRIVED IN CANADA FOR RESPONDENTS WHO IDENTIFIED THEMSELVES AS IMMIGRANTS, CYCLE 7

Birth year	Age at survey	0 to 9 years	10 or more years	Total
before 1933	Over 70	F	308,867	314,337
1934 to 1943	60 to 69	20,071	603,165	623,236
1944 to 1953	50 to 59	73,861	899,655	973,516
1954 to 1963	40 to 49	145,514	1,041,714	1,187,228
1964 to 1973	30 to 39	364,295	994,854	1,359,149
1974 to 1983	20 to 29	659,587	614,051	1,273,638
1984 to 1993	12 to 19	526,722	398,380	925,102
after 1994	n/a	242,040	165,412	407,452
Total		2,037,560	5,026,098	7,063,658

This data is taken from CCHS Cycle 7, using variable SDCGRES. Length of time in Canada since Immigration.

B3: Gender and Smoking

1 THE SMOKING GENDER GAP HAS GROWN SINCE 2000.

1.1 GENDER AND SMOKING, CYCLE 1 TO CYCLE 7

Throughout the 7 cycles of the CCHS, the reported smoking status of women has been lower than that of men. Although the number of women surveyed is consistently higher than the number of men (a ratio of men to women of .97), the number of men who identify themselves as Daily, Occasional or Former Smokers is increasingly higher. The ratio of men to women Current Smokers was 1.14 (\pm 0.04) in Cycle 1 and 1.35 (\pm 0.07) in Cycle 7.

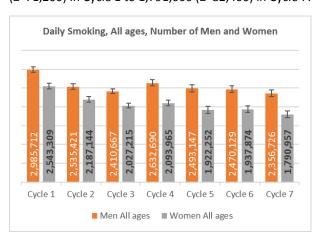
Smoking rates have fallen further for Canadian women than men.

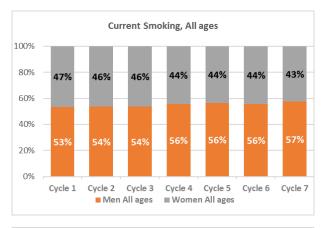
Prevalence of smoking dropped for both sexes between Cycle 1 and Cycle 7: from 28% (\pm 0.6%) to 22% (\pm 0.7%) for men, and from 24% (\pm 0.5%) to 16% (\pm 0.6%) for women.

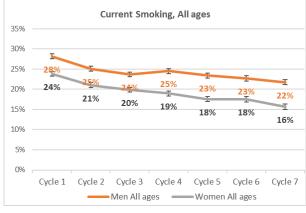
Because the decrease was greater for women than men (34% vs. 22%), the gender balance of Canadian smokers also changed in this period. Expressed as a percentage of the total smoking population, women made up 47% of Current Smokers in Cycle 1, but only 43% in Cycle 7.

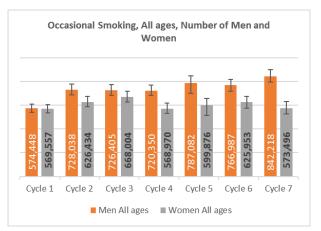
The difference can be attributed to a growing gender gap in both daily and occasional smoking.

The number of men who smoke on a daily basis fell by about one-fifth (21%) over the period (from 2,986,000 (\pm 83,600) men in Cycle 1 to 2,357,000 (\pm 94,300) men in Cycle 7). The number of women who smoke daily fell by about half as much again (30%), from 2,543,300 (\pm 71,200) in Cycle 1 to 1,791,000 (\pm 82,400) in Cycle 7.



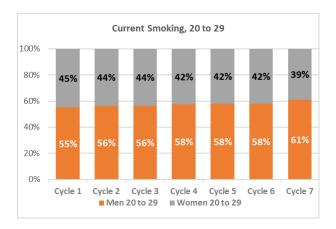


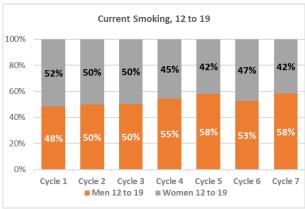




During the same period, the number of men who smoked on an occasional basis grew by 50% (from 249,000 \pm 23,900 to 377,207 \pm 36,200), but the number of such women fell by 9% (from 248,200 \pm 23,900 to 224,800 \pm 28,800). The male-female ratio of Occasional Smokers grew from 1 to 1.43.

The growing gender gap is more pronounced in younger age groups. Comparing men and women who were aged 20 to 29 in Cycle 1 with those of the same age more than a decade later in Cycle 7, the proportion of Current Smokers who were men increased (from 55% in Cycle 1 to 61% in Cycle 7). Among the youngest age group, aged 12-19, the pattern was similar (the proportion grew from 48% to 58%).

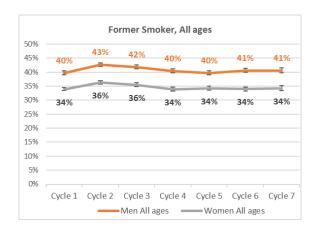


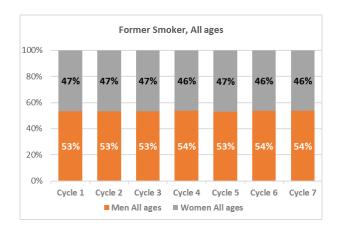


The gender gap cannot be attributed to a greater likelihood for women to quit smoking.

The pattern for Former Smokers has been more stable over the 7 cycles for both sexes: from 40% (\pm 0.6%) in Cycle 1 for men to 41% (\pm 1%) in Cycle 7, and from 34% (\pm 0.9%) to 34% (\pm 0.8%) for women).

Older age groups are, as would be expected, consistently more likely to have a greater proportion of Former Smokers, but there is very little change in the proportion of Former Smokers in each age group over the 7 cycles. (In the youngest age group the proportion of the population which are Former Smokers has fallen in a similar pattern to the drop in smoking prevalence, i.e. from about 1 in 5 young Canadians to 1 in 10).

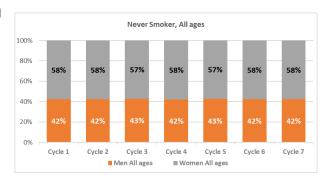


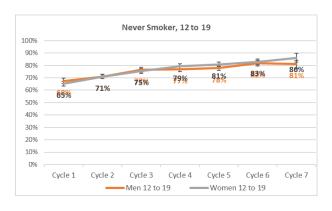


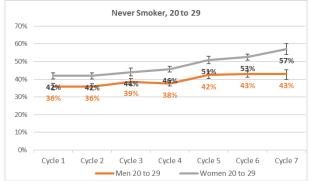
A persistent trend for women to be less likely to take up smoking contributes to the growing gender gap.

Overall, the balance of Never Smokers has also remained stable over this period, with about 6 in 10 non-smokers being women. The cumulative effect of this pattern will have contributed to the increased presence of non-smoking women.

Young men and women (aged 12 to 19) report no difference in smoking initiation rates, with both sexes more likely to have avoided smoking than the generations that preceded them. The gender gap widened for Never Smokers in the 20-29 age group.







Measuring the gap

The improved health status of women between Cycle 1 and Cycle 7 can be measured in terms of:

- The greater decline in the number of women Current Smokers
 There were about half as many women who smoked than men Cycle 7 in comparison with Cycle 1 (748,000 vs. 361,200).
- The greater increase in the number of Never Smokers.

 There were about one-third additional Never Smokers among women than men in Cycle 7 compared with Cycle 1 (2 million compared with 1.5 million).
- The greater increase in Former Smokers for men in the period (943,300 vs. 735,100) somewhat offsets those gains.

In comparison with men, the smoking status of Canadian women improved. If Canadian men had enjoyed the same progress, there would be 730,000 fewer smokers.

2 TECHNICAL BACKGROUND

Variables used:

SMKDSTY, DHHGAGE, DHH_SEX

Related Excel files:

Gender.xlsx

3 SUMMARY TABLES

3.1.1 Ratio: Men to Women (Number of people by smoking status)

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Ratio: Men to women							
Current Smoker (daily or occasional)	1.14	1.16	1.16	1.26	1.30	1.26	1.35
Daily Smoker	1.17	1.16	1.19	1.26	1.30	1.27	1.32
Occasional Smoker (all)	1.01	1.16	1.09	1.27	1.31	1.23	1.47
Occasional Smoker (always)	1.00	1.38	1.06	1.35	1.53	1.41	1.68
Occasional Smoker (former daily)	1.01	1.04	1.11	1.21	1.19	1.11	1.33
Former Smoker (daily or occasional)	1.13	1.14	1.15	1.16	1.13	1.16	1.15
Never Smoker	0.74	0.73	0.75	0.72	0.74	0.74	0.73

Information on age groups, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Gender.xlsx".

3.1.2 Comparative progress: Cycle 1 to Cycle 7

		Men			Women		Gender Gap
	Cycle 1	Cycle 7	Change*	Cycle 1	Cycle 7	Change*	(advantage)
Total population	12,649,340	14,714,457	2,065,117	13,066,855	15,086,538	2,019,683	M:+ 45,434
Current Smokers	3,560,160	3,198,944	361,216	3,112,866	2,364,453	748,413	W: +387,197
Daily Smokers	2,985,712	2,356,726	628,986	2,543,309	1,790,957	752,352	W: +123,366
Occasional Smokers	574,448	842,218	-267,770	569,557	573,496	-3,939	W: +263,831
Former Smokers	5,026,523	5,969,777	943,254	4,433,637	5,168,719	735,082	M: +208,172
Never Smokers	4,062,657	5,545,736	1,483,079	5,520,352	7,553,366	2,033,014	W: +549,935
Health improvement			2,787,549			3,516,509	W: +728,960

^{*}expressed in absolute value, i.e. as health improvement.

C1: Starting

1 FEWER VERY YOUNG CANADIANS (AND MORE SOMEWHAT OLDER CANADIANS) ARE STARTING TO SMOKE

1.1 Measurements of Starting

The CCHS Questionnaire includes a number of core questions to establish when respondents started to smoke.

- All respondents were asked whether they have smoked a whole cigarette and, if so, at what age they first smoked their whole cigarette. A derived variable (SMKG01C) is available in the PUMF which groups these responses (the age groupings have been modified over the CCHS cycles).
- Those who have ever smoked on a daily basis were asked at what age they began to smoke on a daily basis.
 Derived variables (SMKG203 and SMKG207) are provided for those who were current Daily Smokers and
 Former Daily Smokers at the time of the survey, and the responses are grouped into age bands.

1.2 DIFFERENT COHORTS HAD DIFFERENT EXPERIENCES

The 15 year period of the CCHS allows us to compare the age of onset of smoking (first cigarette and daily smoking) for more than one generational cohort.

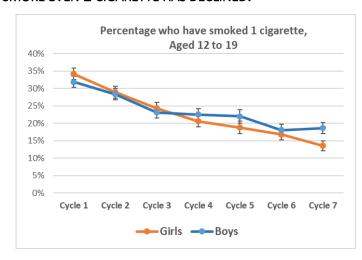
Cohort birth decade	Age group in Cycle 1	Age group in Cycle 7
1970s	Aged 20 to 29	Age 30 to 44
1980s	Age 12 to 19	Age 20 to 29
1990s	(too young to survey)	Age 12 to 19

In their teenage years, these cohorts experienced different tobacco control environments, as a result of many changes to regulations on tobacco advertising, retail displays, warnings on packages, smoking in public places, etc. These regulatory and policy measures had been implemented with the intention, among other things, of reducing smoking onset.

1.3 THE NUMBER OF YOUNG PEOPLE WHO SMOKE EVEN 1 CIGARETTE HAS DECLINED.

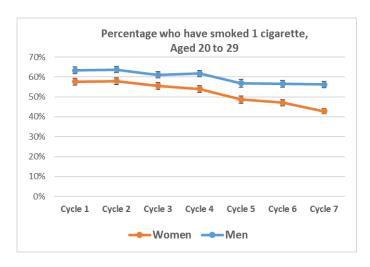
The number of 12 to 19 year olds remained constant in the population between Cycle 1 and Cycle 7 (3.2 million people), but the number of teenagers who reported smoking even one cigarette declined by 50% - from 1 million youth (± 34,000) to 511,900 (± 31,700).

In Cycle 1, one third of teenagers had smoked at least one whole cigarette (33% \pm 1.1%), by Cycle 7 this had dropped by half to one-sixth (16% \pm 1%). By Cycle 7 a difference between the sexes had emerged, with fewer girls having tried smoking one cigarette. (14% \pm 1.4% vs. 19% \pm 1.6%).



Among those respondents who were in their 20s (aged 20 to 29), the decline was modest but statistically significant (5%), from 2.5 million (\pm 60,000) to 2.37 million (\pm 66,400). The overall decline in prevalence was larger, given that there was an increase in the whole population of this age group (from 4.1 million to 4.8 million).

There was an overall decline of one-fifth in the percentage of people in their 20s who had ever smoked a whole cigarette: from 61% (\pm 1.5%) to 50% (\pm 1.4%). Throughout the survey period, young women were less likely to have smoked one cigarette than were young men. (In Cycle 7, 43% \pm 2.1% vs. 56% \pm 2.7%).



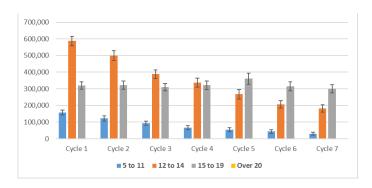
1.4 Ages 12 to 19: There are fewer very young starters.

Teenagers (aged 12 to 19) who have smoked a cigarette are less likely in Cycle 7 to report that they have done so before the age of 15 than they were in Cycle 1. In Cycle 1, the majority of Ever Smokers (51%) started before the age of 15; by Cycle 7, the majority (57%) started after the age of 15.

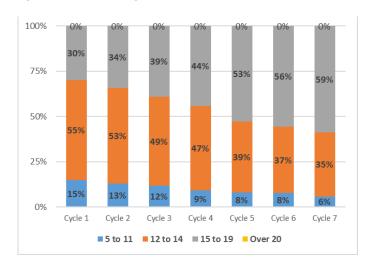
The absolute number of teenagers who smoked a cigarette before the age of 12 fell by 80% (from 157,201 \pm 15,700 to 30,300 \pm 8,365). The number who smoked at ages 12 to 14 fell by 70% (From 587,000 \pm 29,300 to 181,000 \pm 22,100).

The decrease in the proportion of youth aged 12 to 19 who smoked their first whole cigarette in the younger age groups resulted in an increase in the proportion of those who started smoking in their later high-school years (aged 15 to 19) from 30% in Cycle 1 to 59% in Cycle 7.

Number of people who smoked 1 cigarette, by age of first cigarette. Both sexes, aged 12 to 19



Percentage of people who smoke 1 cigarette, by age of first cigarette. Both sexes, aged 12 to 19



1.5 Ages 20 to 29: More people are smoking their first cigarette after they reach 20

YEARS OF AGE.

People in their 20s who have smoked a cigarette were less likely in Cycle 7 to report that they have done so before the age of 15 than they were in Cycle 1. They were, however, more likely to report in cycle 7 (compared to Cycle 1) that they smoked their first cigarette after the age of 15, and more likely to report doing so over the age of 20 (although these are still a relatively small number of cases).

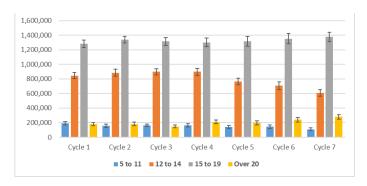
Throughout the 7 cycles, the majority of Ever Smokers (aged 20 to 29) reported that their first cigarette smoked was between the age of 15 and 19. The percentage of those who reported their first cigarette over the age of 20 increased from 7% in Cycle 1 to 12% in Cycle 7.

Beginning in Cycle 3, the CCHS PUMF provided further breakdown in the age of first cigarette – dividing the 15 to 19 age group into two separate categories, 15 to 17 years and 18 to 19.

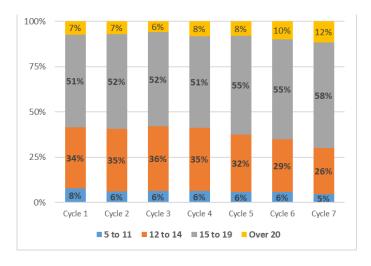
From Cycle 3 to Cycle 7, there was a shift among those aged 20 to 29 towards starting smoking at an older age, i.e. closer to the "legal age" of 18 or 19 (which varies by province). In Cycle 3 and 4, 82% of Ever Smokers had tried their first cigarette before they were 18 years of age. By Cycle 7, the percentage had decreased to 68%.

Some differences were noted between the age at which those who continued to smoke had their first experience with cigarettes and the age at which those who were now Former Smokers had. (By Cycles 5 and later, Former Smokers were more likely to have had their first cigarette at a later age). The significance of this finding was not tested, but may be worth further study.

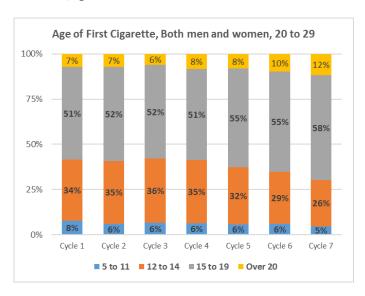
Number of people who smoked 1 cigarette, by age of first cigarette. Both sexes, aged 20 to 29 $\,$



Percentage of people who smoke 1 cigarette, by age of first cigarette. Both sexes, aged 20 to 29



Percentage of Ever Smokers by Age of first cigarette. Both sexes, ages 20 to 29



1.6 One in Five daily smokers starts to smoke on a daily basis after the age of 20.

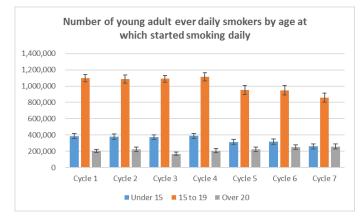
Among Canadians 20 to 29 years of age, the number who have ever smoked on a daily basis decreased by about one-fifth between Cycle 1 and Cycle 7. There were 1.7 million (± 50,700) Ever Daily Smokers in this age bracket in Cycle 1, and 1.38 million (± 74,400) in Cycle 7. More than a decade elapsed between the first and last cycle and these surveys studied the smoking behaviour of different generational cohorts. Those in their 20s in Cycle 1 were born between 1970 and 1980, and those in their 20s in Cycle 7 were born between 1984 and 1994.

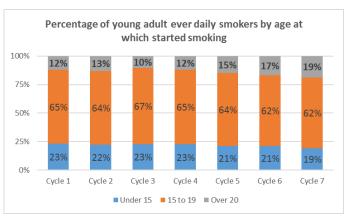
Despite an overall increase in the population in this age group (from 4.1 million to 4.8 million), the absolute number of 20 to 29 year olds who started smoking on a daily basis before the age of 20 dropped. There was a one-third decrease in the number who started before the age of 15 (from $387,700 \pm 29,500$ in Cycle 1 to 261,900 $\pm 30,900$ in Cycle 7), and a one-quarter decrease in those who started between the ages of 15 and 19 (from 1 million $\pm 43,900$ in Cycle 1 to 857,600 $\pm 54,900$ in Cycle 7).

There was, however, a one-quarter increase in

the number of young adults who started smoking on a daily basis after the age of $20 - \text{from } 205,000 \ (\pm \ 20,900) \ \text{in Cycle 1 to } 258,000 \ (\pm \ 30,500) \ \text{in Cycle 7}.$

The combined effect is a 50% increase in the percentage of young adult Ever Daily Smokers who start after the age of 20 - from 12% ($\pm 3\%$) of Ever Daily Smokers in Cycle 1 to 19% ($\pm 4\%$) of Ever Daily Smokers in Cycle 7. The pattern was similar for both men and women.





2 TECHNICAL BACKGROUND

Variables used:

- SMKG203
 - Age started smoking (Daily Smoker)
- SMKG207
 - Age started smoking (Former Daily Smoker)

Related Excel files:

- Starting-daily.xlsx
 - Table 1: Number of Daily Smokers and proportion of Ever Daily Smokers, by age at which started smoking daily.
- Starting-First Cigarette
 - o Table 1: Number and proportion of Ever Smokers, by age at which smoked first whole cigarette
 - Table 2: Number and proportion of Current and Former Smokers, by age at which smoked first whole cigarette

3 SUMMARY TABLES

3.1 Number of ever daily smokers by Age at which started smoking daily, 20 to 29 years, Men and Women, CCHS Cycle 1 to 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Total ever daily smokers	1,691,067	1,691,790	1,631,386	1,709,824	1,488,662	1,522,322	1,377,511
Under 15	387,661	380,020	372,539	388,238	313,385	319,555	261,853
15 to 19	1,098,307	1,089,552	1,089,837	1,113,454	953,123	950,018	857,566
Over 20	205,099	222,218	169,010	208,132	222,154	252,749	258,092

Breakdown by age (20 to 24 and 25 to 29), sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "C1-Starting-daily.xlsx"

3.2 PERCENTAGE OF EVER DAILY SMOKERS BY AGE AT WHICH STARTED SMOKING, 20 TO 29 YEARS, MEN AND WOMEN, CCHS CYCLE 1 TO 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Under 15	23%	22%	23%	23%	21%	21%	19%
15 to 19	65%	64%	67%	65%	64%	62%	62%
Over 20	12%	13%	10%	12%	15%	17%	19%

Breakdown by age (20 to 24 and 25 to 29), sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "C1-Starting-daily.xlsx

3.3 Number of ever smokers by age at which smoked first whole cigarette, Men and Women, CCHS Cycle 1 to 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7				
12 to 19 years old at time of survey											
Total	1,063,550	943,812	791,239	726,666	682,600	564,217	511,882				
5 to 11	157,201	122,299	93,048	66,645	54,086	43,480	30,308				
12 to 14	587,007	499,163	388,325	337,914	267,786	206,093	181,020				
15 to 17			284,659	282,771	312,458	269,454	259,244				
18 to 19			25,207	39,336	48,270	45,190	41,310				
15 to 19	319,342	322,350	309,866	322,107	360,728	314,644	300,554				
20 to 29 years ol	d at time of surv	<i>r</i> ey									
Total	2,500,745	2,562,374	2,522,712	2,572,289	2,415,042	2,441,363	2,370,135				
5 to 11	191,535	156,494	163,066	163,597	140,403	143,772	109,195				
12 to 14	845,594	885,157	897,218	897,684	763,286	706,426	606,210				
15 to 17			1,002,096	967,547	935,185	922,655	888,238				
18 to 19			311,619	332,853	381,050	428,912	488,121				
15 to 19	1,282,533	1,340,065	1,313,715	1,300,400	1,316,235	1,351,567	1,376,359				
Over 20	181,083	180,658	148,713	210,608	195,118	239,598	278,371				

Breakdown by sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "C1-Starting-Firstcigarette.xlsx"

C2: Quitting

1 FOUR IN TEN FORMER SMOKERS HAVE QUIT SMOKING FOR A DECADE OR MORE.

1.1 MEASUREMENTS OF QUITTING

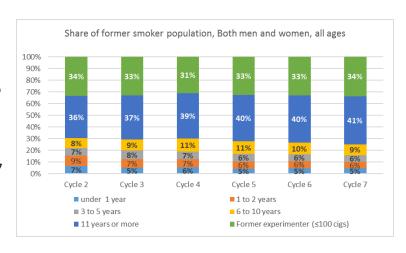
The CCHS Questionnaire included a number of core questions to establish the length of time since a survey respondent quit smoking, as well as the length of time they smoked. These questions are asked of all Former Smokers who have, in their lifetime, smoked 100 or more cigarettes.

Since Cycle 2, the responses to these questions are categorised in a derived variable (SMKGSTP), in which responses are grouped into 5 lengths of time since quitting. These range from 'less than a year' to '11 years or more'.

1.2 One third of Former Smokers have not smoked more than 100 cigarettes

The "Former Smoker" category included a subset of "Former Experimenters". These are individuals who had smoked on occasion in the past, but whose lifetime consumption of cigarettes was reported to be under 100 cigarettes.

The number of Former Experimenter Smokers increased over the survey period: from 3.1 million (± 68,000) in Cycle 1 to 3.7 million (± 119,000) in Cycle 7. This group represented about one-third of all Former Smokers in each of the survey periods, with very little gender difference.



Former Experimenters make up a greater proportion of the former smoking populations in younger age groups compared with older groups. In Cycle 7, 8 in 10 Former Smokers aged 12-19 reported that they had not consumed more than 100 cigarettes lifetime, as did 6 in 10 Former Smokers in the 20 to 29 year old age bracket.

1.3 THERE ARE MORE LONG TERM QUITTERS AND FEWER RECENT QUITTERS.

The largest group of Former Smokers across the CCHS cycles is the group of those who reported having quit for more than 10 years (i.e. 11 years or more). This group increased by 22%: from 3.7 million (± 89,400) in Cycle 2 to 4.54 million (± 56,500) in Cycle 7.

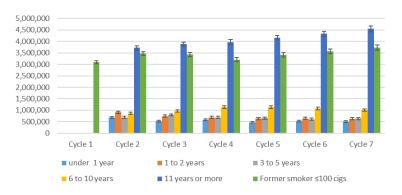
There was also an increase of 16% in the number of Former Smokers who had quit 6 to 10 years before the survey: from 867,800 (±45,100) in Cycle 2 to 1 million (± 56,500) in Cycle 7.

The 15 year period of the survey, the aging population and the growing population contributed to the increase in long-term quitters. Those Former Smokers who quit in the year prior to Cycle 2 and who remained quit until Cycle 7 would have moved from the most recent to the most lengthy quit category. The increase in long term quitters, however, would be offset by the losses to the population of older long-term quitters who died during this period.

As discussed in the section of this report on Changing Demographics, there were almost 1 million Former Smokers who were born before 1933 who were part of the survey population in Cycle 1, but were no longer present for Cycle 7.

The number of Current Smokers who had ever smoked more than 100 cigarettes and who had recently quit declined by a quarter (from $679,900 \pm 44,900$ in Cycle 2 to $513,400 \pm 41,076$ in Cycle 7). With a declining smoking population, there were fewer smokers in each Cycle who were available to quit. Nonetheless, there was

Number of Former Smokers, by Number of Years since last smoked. All ages, both sexes



Ratio Recent Quitters to Smokers in Previous Cycle

Cycle 4

Cycle 5

also a decline in the ratio of the number of people who had quit smoking since the last survey period (2 years) and the number of Current Smokers in the previous survey period. In Cycle 2 the ratio was 0.11 ± 0.01 , by Cycle 7 it was 0.09 ± 0.01 . A decline occurred for both men and women, and in all age groups.

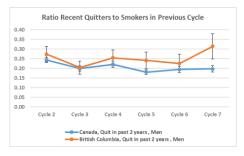
1.4 Provincial experiences with recent quitting

The population percentage of Canadians who reported having quit smoking in the last 2 years (i.e. since the last CCHS cycle) and the ratio of these quitters to the number of Current Smokers in the previous cycle varies only modestly between provinces.

In most provinces the short term quitting rates (as measured in numbers of people, percentage of total population or population of smokers who quit in the past two years) declined between Cycle 2 and Cycle 7, although not always significantly. Similar patterns were seen

with both men and women in most provinces: British Columbia is an exception.

Overall, British Columbia had the highest ratio of recent quitters (Cycle7) to past-cycle Current Smokers (Cycle 6). This



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0.300

0.250

0.200

0.150

0.100

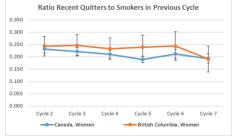
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Cycle 2

Cycle 3

Canada, Both sexes



Cycle 6

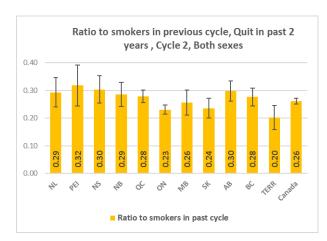
British Columbia, Both sexes

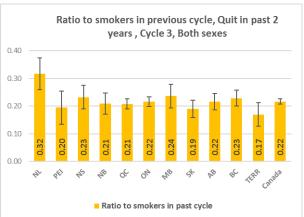
Cycle 7

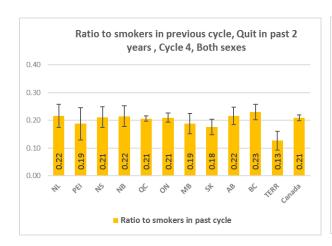
was not the case if only women were considered.

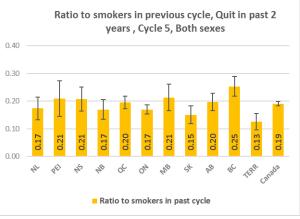
Comparison of ratio of past-2 year quitters to past-cycle smokers is shown for Canada and British Columbia. Both sexes, upper chart. Women, lower right; Men, lower left.

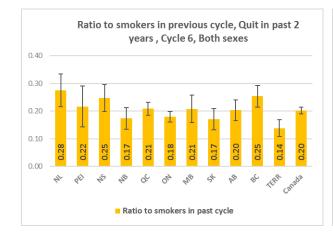
Ratio of Recent Quitters to Past-Cycle Current Smokers, Cycle 2 to Cycle 7

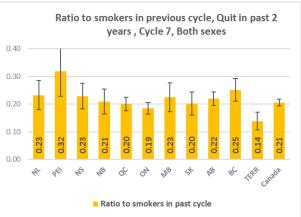












2 TECHNICAL BACKGROUND

Variables used:

SMKGSTP: Number of years since stopped smoking completely

Related Excel files:

- C2-Quitting.xlsx
 - Table 1: Number of people and proportion of Former Smokers
- C-Province-RecentQuits.xls
 - o Table 1: Comparison over 6 cycles
 - o Table 2: Comparison of all jurisdictions within 1 cycle

3 SUMMARY TABLES

3.1 YEARS SINCE STOPPED SMOKING COMPLETELY, FORMER SMOKERS WHO HAD CONSUMED MORE THAN 100 CIGARETTE IN THEIR LIFETIME, CCHS CYCLE 2 TO 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Men and Women, all ages							
< 1 YEAR		679,900	530,266	583,232	475,886	529,357	513,447
1 TO 2 YEARS		909,633	744,566	687,819	640,324	651,760	629,879
3 TO 5 YEARS		687,399	804,915	689,035	656,047	608,719	634,142
6 TO 10 YEARS		867,767	967,204	1,132,415	1,139,243	1,069,586	1,009,180
11 YEARS OR MORE		3,723,559	3,877,538	3,971,653	4,159,093	4,330,821	4,544,154
Total		6,868,258	6,924,489	7,064,154	7,070,593	7,190,243	7,330,802

Breakdown by age, sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Quitting.xlsx"

3.2 FORMER OCCASIONAL SMOKERS WHO HAVE NEVER SMOKED MORE THAN 100 CIGARETTES IN THEIR LIFETIME

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Men and Women, all ages							
Men and women, 12 to 19	371,584	381,837	318,486	272,924	259,030	219,341	215,085
Men and women, 20 to 29	602,826	617,068	650,746	614,603	658,950	656,910	714,389
Men and women, 30 to 34	973,342	1,114,355	1,054,577	944,380	942,348	982,684	983,985
Men and women, 45 to 65	791,347	952,830	979,028	968,709	1,098,658	1,193,224	1,235,565
Men and women, 65+	353,198	405,963	423,507	405,570	456,677	519,525	574,858
Men and women, all ages	3,092,297	3,472,052	3,426,345	3,206,185	3,415,664	3,571,683	3,723,881
Men, all ages	1,509,808	1,706,579	1,723,061	1,624,957	1,742,251	1,846,601	1,930,324
Women, all ages	1,582,489	1,765,473	1,703,284	1,581,228	1,673,413	1,725,082	1,793,557

 $Coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "Quitting.xlsx"$

3.3 NUMBER OF CURRENT SMOKERS (WHO HAD EVER SMOKED MORE THAN 100 CIGARETTES) WHO HAD STOPPED SMOKING COMPLETELY WITHIN THE PAST 2 YEARS.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Men and Women, all ages							
Newfoundland		32,455	32,879	23,815	17,868	28,399	21,878
Prince Edward Island		8,981	5,089	4,756	5,569	5,804	7,767
Nova Scotia		57,009	41,915	40,522	38,722	45,538	40,094
New Brunswick		46,246	30,041	32,213	24,143	25,341	28,519
Quebec		457,347	327,470	329,203	298,838	318,348	285,325
Ontario		524,333	472,871	462,995	358,125	391,037	379,171
Manitoba		52,969	45,125	41,708	40,698	41,590	40,635
Saskatchewan		44,962	35,717	36,008	27,374	31,339	38,074
Alberta		177,396	132,321	139,504	137,198	138,835	144,734
British Columbia		182,196	146,533	156,585	163,657	150,582	152,183
Territories		5,638	4,872	3,738	4,015	4,302	4,946
Canada		1,589,532	1,274,833	1,271,047	1,116,207	1,181,115	1,143,326

Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Province-RecentQuits.xlsx"

C3: Occasional Smoking

1 OCCASIONAL SMOKING IS INCREASING.

1.1 THE MEASUREMENTS OF OCCASIONAL SMOKING

Although "Occasional Smoking" is generally used to refer to anyone who identifies themselves as a smoker, but who does not smoke on a daily basis, the CCHS and other Statistics Canada surveys use the term to include 2 categories of people. These are defined in the Derived Variable dictionary as:

- Occasional Smoker who is a former Daily Smoker.
- Occasional Smoker who was never a Daily Smoker or has smoked less than 100 cigarettes lifetime.

The term "Former Smoker" is similarly used to include 2 categories of former smokers, defined as:

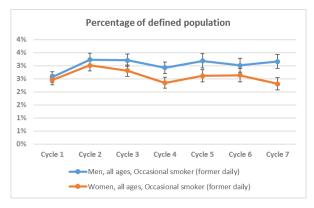
- Former Daily Smoker (non-smoker at the time of the survey)
- Former Occasional Smoker (at least 1 whole cigarette, non-smoker at the time of the survey)

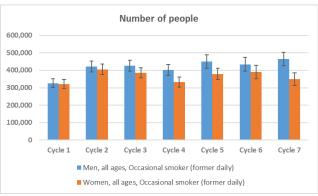
The data allows a further distinction between Occasional Smokers on the basis of their lifetime cigarette consumption, i.e. whether they have ever smoked fewer than or more than 100 cigarettes.

1.2 THE NUMBER AND PERCENTAGE OF MEN WHO USED TO SMOKE DAILY BUT NOW SMOKE OCCASIONALLY HAS INCREASED

Between Cycle 1 and Cycle 7, there was an overall increase in the number and percentage of Canadian men who previously smoked daily, but who now reported smoking on an occasional basis: from 325,600 (\pm 25,400) and 2.6% (\pm 0.2%) of the male population in Cycle 1 to 465,000 (\pm 39,000) men and 3.2% (\pm 0.3%) percent of the male population in Cycle 7.

For women, the difference in this same group between the two cycles was not significant, neither for the number of people nor the percentage of the population. There were 321,400 (\pm 25,100) women who previously smoked daily and now reported smoking occasionally in Cycle 1 and 348,700 (\pm 36,300) in Cycle 7, representing a change from 2.5% \pm 0.2% to 2.3% \pm 0.2% of the female population.

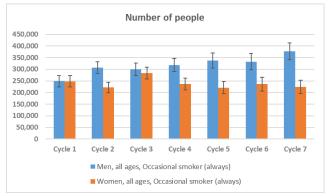


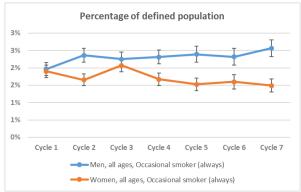


1.3 THE NUMBER AND PERCENTAGE OF MEN WHO NEVER SMOKED DAILY BUT WHO NOW SMOKE OCCASIONALLY HAS INCREASED

Between Cycle 1 and Cycle 7, there was an overall increase in the number and percentage of Canadian men who smoked occasionally but who were never Daily Smokers: from 248,900 (\pm 23,900) to 377,200 (\pm 35,200) men and from 2.6% \pm 0.2% to 2.6% \pm 0.2% percent of the male population.

The percentage of women who smoked occasionally, but never daily, decreased slightly: from 1.9% (\pm 0.2%) in Cycle 1 to 1.5% (\pm 0.2%) in Cycle 7. Because of population increases, the decrease in the number of such Occasional Smokers was not statistically significant (248,188 \pm 23,800 in Cycle 1 to 224,799 \pm 28,800 in Cycle 7).

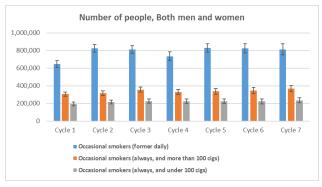


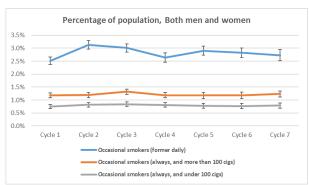


1.4 Occasional Smokers with low lifetime consumption

Throughout the survey period, about one in six Occasional Smokers reports that they have never smoked more than 100 cigarettes in their lifetime. In Cycle 1, there were 192,200 (\pm 21,100) such individuals, compared with 235,000 (\pm 30,100) in Cycle 7. The increase in Occasional Smokers who smoked under 100 cigarettes was entirely due to an increase in the number of men in this group (from 80,200 \pm 12,200 in Cycle 1 to 133,900 \pm 21,700 in Cycle 7), as there was no statistically significant changes in the number of women in this group (from 111,900 \pm 15,200 to 101,100 \pm 18,400).

Expressed as a percentage of the population, the proportion of men who identified themselves as Current Smokers who had not smoked 100 cigarettes or more grew between Cycle 1 and Cycle 7 (from $0.6\% \pm 0.1\%$ to $0.9\% \pm 0.1\%$). There was a significant decrease among women (from $0.9\% \pm 0.1\%$ to $0.7\% \pm 0.1\%$).





1. The importance of self-reported low-lifetime consumption smokers to measurements of Former Smokers is discussed elsewhere in this report.

1.5 A GROWING SHARE OF CURRENT SMOKERS ARE OCCASIONAL SMOKERS

With an overall increase in occasional smoking and an overall decrease in daily smoking, the relative importance of occasional smoking has grown.

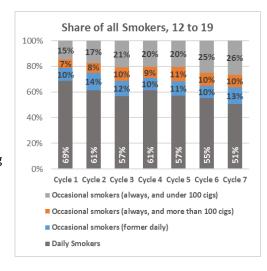
In Cycle 1, there were roughly 5 times as many Daily Smokers as Occasional Smokers (5.53 million \pm 99,500 vs. 1.14 million \pm 156,000). In Cycle 7, there were only 3 times as many (4.15 million \pm 116,135 vs. 1.42 million \pm 65,000).

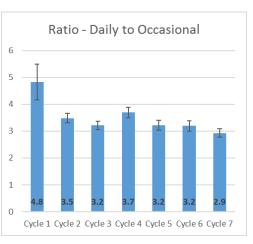
Otherwise expressed, the percentage of Current Smokers who are Occasional Smokers increased from 17% in Cycle 1 to 25% in Cycle 7.

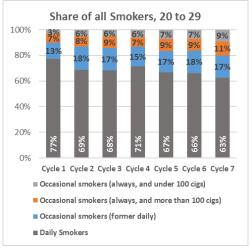
Among younger populations (aged 12 to 19 and 20 to 29 years old), occasional smoking by people who have smoked less than

100 cigarettes grew as a proportion of all smoking between Cycle 1 and Cycle 7.

There was an increase in the number of young adults, aged 20 to 29, who identified themselves as Occasional Smokers, but







who said they had never smoked more than 100 cigarettes. The absolute number of such individuals was not large in cycle 7 (110,700 \pm 21,000), however, it was over double the number in cycle 1 (49,100 \pm 10,800). Reasons for this increase could include an increase in the number of experimenters who never move on to become regular smokers, or an increase in prevalence of irregular social smoking.

1.6 OCCASIONAL SMOKERS WHO ONCE SMOKED ON A DAILY BASIS ARE HEAVIER SMOKERS THAN THOSE WHO DID NOT.

In Cycle 7, Occasional Smokers who have never been Daily Smokers report smoking on fewer days per month than do those who used to be Daily Smokers (mean 5.8 days per month vs. 10.3 days). On the days that they do smoke, they also report smoking fewer cigarettes per day, (Mean 2.8 vs. 3.9 cigarettes).

The calculated annual consumption of cigarettes by Occasional Smokers who were once Daily Smokers is less than one-tenth of that reported by Daily Smokers (479 cigarettes vs. 5,373 cigarettes). Those Occasional Smokers who have never smoked on a daily basis reported an annual consumption of 166 cigarettes per year.

2 TECHNICAL BACKGROUND

Variables used:

- SMKDSTY (Smoking behaviour)
- SMK_205B (Number of cigarettes reported smoked per day), SMK_05C (Number of days smoked 1 cigarette or more)

Related Excel files:

- Basic-Ageandsex.xlsx
 - o Table 1: Number and Prevalence of Occasional Smokers
- Consumption.xlsx
- Occasional.xlsx

3 SUMMARY TABLES

3.1 PREVALENCE OF OCCASIONAL SMOKERS, MEN

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Aged 12-19							
Occasional Smoker (all)	5.5%	5.5%	5.2%	4.7%	5.4%	4.3%	5.1%
Occasional Smoker (always)	3.8%	3.7%	3.8%	3.6%	4.1%	3.5%	3.6%
Occasional Smoker (former daily)	1.7%	1.8%	1.3%	1.2%	1.2%	0.8%	1.5%
Aged 20 - 29							
Occasional Smoker (all)	8%	11%	10%	10%	10%	10%	12%
Occasional Smoker (always)	3%	5%	4%	5%	6%	5%	6%
Occasional Smoker (former daily)	4%	6%	6%	5%	5%	5%	5%
Aged 30 - 44							
Occasional Smoker (all)	5%	6%	7%	6%	7%	7%	7%
Occasional Smoker (always)	2%	2%	3%	2%	2%	3%	2%
Occasional Smoker (former daily)	3%	4%	4%	4%	4%	5%	5%
Aged 45 - 64							
Occasional Smoker (all)	3%	4%	4%	3%	4%	4%	4%
Occasional Smoker (always)	1%	1%	1%	1%	1%	1%	2%
Occasional Smoker (former daily)	2%	3%	3%	2%	3%	3%	3%
Aged 65+							
Current Smoker (daily or occasional)	13%	12%	11%	12%	11%	10%	11%
Occasional Smoker (all)	2%	2%	1%	2%	2%	1%	2%
Occasional Smoker (always)	0%	0%	0%	0%	0%	0%	0%
All Ages							
Occasional Smoker (all)	5%	6%	5%	5%	6%	5%	6%
Occasional Smoker (always)	2%	2%	2%	2%	2%	2%	3%
Occasional Smoker (former daily)	3%	3%	3%	3%	3%	3%	3%

3.2 PREVALENCE OF OCCASIONAL SMOKERS, WOMEN

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Aged 12-19							
Occasional Smoker (all)	6.2%	6.0%	5.3%	4.3%	4.2%	4.1%	3.0%
Occasional Smoker (always)	4.2%	3.7%	3.7%	3.2%	2.9%	3.1%	2.4%
Occasional Smoker (former daily)	2.0%	2.3%	1.6%	1.1%	1.2%	1.0%	0.6%
Aged 20 - 29							
Occasional Smoker (all)	8%	9%	9%	7%	8%	8%	7%
Occasional Smoker (always)	3%	3%	4%	3%	3%	4%	4%
Occasional Smoker (former daily)	4%	6%	5%	4%	5%	5%	4%
Aged 30 - 44							
Occasional Smoker (all)	5%	5%	6%	5%	5%	5%	5%
Occasional Smoker (always)	2%	1%	2%	2%	2%	2%	1%
Occasional Smoker (former daily)	3%	4%	4%	3%	3%	3%	3%
Aged 45 - 64							
Occasional Smoker (all)	3%	3%	4%	3%	3%	3%	3%
Occasional Smoker (always)	1%	1%	1%	1%	1%	1%	1%
Occasional Smoker (former daily)	2%	2%	2%	2%	3%	3%	2%
Aged 65+							
Occasional Smoker (all)	2%	2%	2%	2%	2%	1%	1%
Occasional Smoker (always)	1%	0%	1%	0%	0%	0%	0%
Occasional Smoker (former daily)	1%	1%	1%	1%	1%	1%	1%
All Ages							
Occasional Smoker (all)	4%	5%	5%	4%	4%	4%	4%
Occasional Smoker (always)	2%	2%	2%	2%	2%	2%	1%
Occasional Smoker (former daily)	2%	3%	3%	2%	3%	3%	2%

 $Numbers\ of\ individuals,\ coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ ''\underline{Basic-AgeandSex.xlsx}''.$

3.3 PREVALENCE OF OCCASIONAL SMOKERS BY LIFETIME CIGARETTE CONSUMPTION

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Aged 12-19, both sexes							
Occasional Smokers (former daily)	2%	2%	1%	1%	1%	1%	1%
Occasional Smokers (always, and more than 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Occasional Smokers (always, and under 100 cigs)	3%	3%	3%	2%	2%	2%	2%
Aged 20 – 29, both sexes							
Occasional Smokers (former daily)	4%	6%	5%	5%	5%	5%	4%
Occasional Smokers (always, and more than 100 cigs)	2%	2%	3%	2%	3%	2%	3%
Occasional Smokers (always, and under 100 cigs)	1%	2%	2%	2%	2%	2%	2%
Aged 30-44, both sexes							
Occasional Smokers (former daily)	3%	4%	4%	4%	4%	4%	4%
Occasional Smokers (always, and more than 100 cigs)	1%	1%	2%	2%	1%	2%	1%
Occasional Smokers (always, and under 100 cigs)	0%	0%	1%	0%	1%	1%	1%
Aged 45-64, both sexes							
Occasional Smokers (former daily)	2%	3%	3%	2%	3%	3%	2%
Occasional Smokers (always, and more than 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Occasional Smokers (always, and under 100 cigs)	0%	0%	0%	0%	0%	0%	0%
Aged 65+, both sexes							
Occasional Smokers (former daily)	1%	1%	1%	1%	1%	1%	1%
Occasional Smokers (always, and more than 100 cigs)	0%	0%	0%	0%	0%	0%	0%
Occasional Smokers (always, and under 100 cigs)	F	F	0%	0%	F	F	F
All ages, both sexes							
Occasional Smokers (former daily)	3%	3%	3%	3%	3%	3%	3%
Occasional Smokers (always, and more than 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Occasional Smokers (always, and under 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Men, all ages							
Occasional Smokers (former daily)	3%	3%	3%	3%	3%	3%	3%
Occasional Smokers (always, and more than 100 cigs)	1%	2%	1%	1%	1%	1%	2%
Occasional Smokers (always, and under 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Women, all ages							
Occasional Smokers (former daily)	2%	3%	3%	2%	3%	3%	2%
Occasional Smokers (always, and more than 100 cigs)	1%	1%	1%	1%	1%	1%	1%
Occasional Smokers (always, and under 100 cigs)	1%	1%	1%	1%	1%	1%	1%

 $Numbers\ of\ individuals,\ coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "{\it \underline{Occasional.xlsx}"}".$

3.4 REPORTED AVERAGE ANNUAL CONSUMPTION OF CIGARETTES — OCCASIONAL SMOKERS.

	12 to 19	20 to 29	30 to 44	45 to 64	65 +	All ages
Men – Always Occasional						
# Days per month smoke	5.3	4.6	6.6	6.5	9.7	5.6
# Cigarettes per day on days smoked	2.2	1.9	2.6	3.3	4.6	2.5
Estimated annual per capita consumption	142	106	207	258	F	166
Millions of cigarettes reported smoked	8.0	16.3	16.5	18.6	F	61.3
Men – Occasional Former daily						
# Days per month smoke	13.5	10.0	9.1	12.0	12.5	10.5
# Cigarettes per day on days smoked	4.9	3.8	3.9	4.9	5.2	4.3
Estimated annual per capita consumption	803	459	419	710	778	539
Millions of cigarettes reported smoked	20	58	68	86	20	247
Women – Always Occasional						
# Days per month smoke	5.4	5.3	6.3	8.2	8.5	6.2
# Cigarettes per day on days smoked	1.7	2.0	2.2	3.0	3.3	2.2
Estimated annual per capita consumption	111	127	169	299	F	166
Millions of cigarettes reported smoked	4.0	11.1	8.4	11.9	F	36.8
Women – Occasional Former daily						
# Days per month smoke	12.7	9.2	8.8	10.7	12.6	9.9
# Cigarettes per day on days smoked	4.0	3.2	3.1	3.6	3.8	3.4
Estimated annual per capita consumption	F	355	334	469	582	403
Millions of cigarettes reported smoked	F	30	39	49	16	138
Both Men and women						
Millions of cigarettes reported smoked	32	115	132	166	36	483

Coefficients of variation available on "Consumption.xlsx"

C4: Self-Reported Health Status

1 CANADIANS WHO THINK THEIR HEALTH IS POOR ARE MORE LIKELY TO BE SMOKERS.

1.1 Self-reported health status

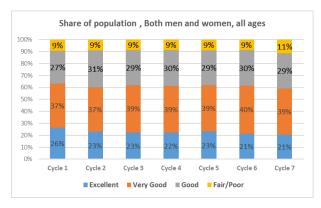
One of the first questions on the CCHS Questionnaire is a request for respondents to rate their health "in general" as being "excellent", "very good", "good", "fair", or "poor" (GEN_01). This question has been asked in a consistent way throughout all the cycles of the survey.

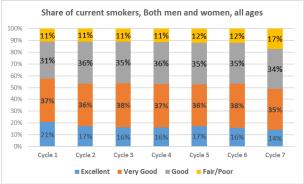
Relatively few people identified their health as "fair" or "poor": in Cycle 7, only 8% and 3% of respondents, respectively, selected these answers. In this review, these two responses have been grouped as "fair/poor".

1.2 One in 5 Canadians say their health is "excellent", as do 1 in 7 smokers.

More than half of Canadians (60%) rated their health as being "excellent" or "very good", compared to about half of Current Smokers (49%).

Older non-smoking Canadians and older Current Smokers were less likely to positively rate their health. Among the 9% of smokers aged 65 years or over (498,900 \pm 28,900), one-third rated their health as "excellent" (55,100 \pm 9,300) or "very good" (131,292 \pm 14,700).

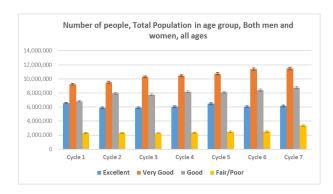


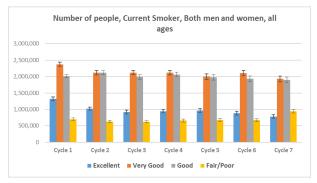


1.3 More Canadians (and even more Canadian smokers) now consider themselves in "fair" or "poor" health.

Between Cycle 1 and Cycle 7, despite a general increase in the population of 4 million, the number of Canadians who rated their health as "excellent" fell modestly by 6%, from 6.57 million (\pm 105,100) to 6.17 million (\pm 135,600). The number of Canadians who reported their health was "very good" increased by 25%, from 9.2 million (\pm 110,600) to 11.5 million (\pm 183,800), and the number whose rated health status was "good" increased by 28%, from 6.84 million (\pm 109,500) to 8.77 million (\pm 157,800). The largest increase was for those who rated their health as "fair" or "poor", from 2.3 million (\pm 64,500) to 3.35 million (\pm 107,200), an increase of 45%.

The number of smokers who considered themselves in "excellent" health fell by 41%, from 1.3 million (\pm 55,400) in Cycle 1 to 784,000 (\pm 51,700). There were declines also for the number of Current Smokers who ranked their health as "good" or "very good". Among those who considered their health "poor" or "fair", there was an increase of 35%, from 703,300 (\pm 42,200) to 947,000 (\pm 62,500).

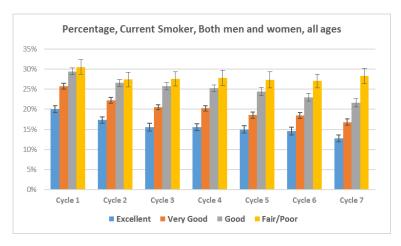




1.4 Smoking rates are highest among those in poorest health.

Between Cycle 1 and Cycle 7, there was a notable decrease in the prevalence of current smoking among Canadians in all categories of health status, except for those who reported fair/poor health.

Canadians who considered themselves to be in "excellent health were least likely to be smokers: only 13% (\pm 0.8%) were Current Smokers, in contrast to 17% (\pm 0.8%) who reported their health as "very good", 22% (\pm 1.0%) who reported their health as "good" and 28% (\pm 1.9%) who assessed their health as "fair" or "poor".

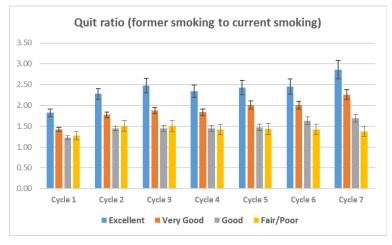


The upward step-pattern exists for both men and women and in all age groups.

1.5 QUITTING RATES ARE HIGHEST AMONG THOSE IN BEST HEALTH.

Among those who have ever smoked (Current and Former Smokers), the proportion who have quit is highest for those who reported their health as "excellent", with a Quit Ratio of 2.86 (± 0.22). Those who reported their health as "fair" or "poor" were less likely to have quit, with a Quit Ratio of 1.38 (± 0.12).

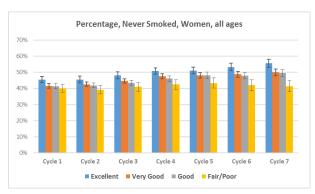
The downward step pattern exists for both sexes and for all age groups over 20.

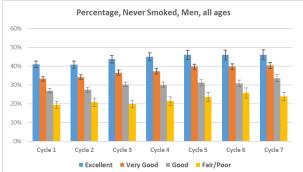


1.6 Never smoking rates are highest among those in Best Health.

Between Cycle 1 and Cycle 7, there was an increase in the percentage of Never Smokers in all self-reported categories of health except for those with fair/poor health.

Canadians who considered their health "excellent" were more likely to be non-smokers than were those who had a lower self-evaluation of their health status. Approximately half ($51\% \pm 1.6\%$) of those with "excellent" health were Never Smokers, compared to one-third ($33\% \pm 1.8\%$) of those with "poor" health. This relationship was more pronounced among men than women in all age groups with the exception of the over 65+ year old age group.





2 TECHNICAL BACKGROUND

Variables used:

Gen_02
 Self-reported health status

Related Excel files:

- Healthstatus.xlsx
 - o Table 1: Number of people and proportion of Former Smokers
 - o Table 2: Share of population and proportion of smokers
 - Table 3: Quit Ratio

3 SUMMARY TABLES

3.1 Number of People by Smoking Status and Self-Reported Health Status, CCHS Cycle 2 to 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Excellent Health							
All people	6,571,133	5,905,325	5,897,926	6,067,955	6,469,316	6,068,720	6,165,695
Current Smoker	1,319,701	1,023,889	918,153	945,489	969,590	885,698	784,076
Former Smoker	2,411,523	2,330,778	2,272,360	2,216,362	2,357,917	2,172,812	2,244,356
Never Smoked	2,839,909	2,550,658	2,707,413	2,906,104	3,141,809	3,010,210	3,137,263
Very Good Health							
All people	9,214,837	9,527,611	10,315,085	10,460,874	10,753,597	11,372,952	11,486,223
Current Smoker	2,375,488	2,115,199	2,123,156	2,120,764	1,998,578	2,104,656	1,929,238
Former Smoker	3,383,206	3,753,277	3,993,347	3,893,425	4,014,953	4,226,368	4,365,656
Never Smoked	3,456,143	3,659,135	4,198,582	4,446,685	4,740,066	5,041,928	5,191,329
Good Health							
All people	6,841,756	7,962,332	7,729,604	8,170,654	8,106,857	8,403,578	8,768,949
Current Smoker	2,014,719	2,116,938	1,987,641	2,064,118	1,978,222	1,934,317	1,898,238
Former Smoker	2,466,026	3,072,392	2,884,852	2,983,531	2,905,316	3,155,408	3,210,697
Never Smoked	2,361,011	2,773,002	2,857,111	3,123,005	3,223,319	3,313,853	3,660,014
Fair or Poor Health							
All people	2,304,377	2,313,533	2,269,351	2,366,833	2,480,589	2,484,753	3,350,495
Current Smoker	703,289	634,536	624,552	659,286	677,184	671,865	947,016
Former Smoker	896,944	959,419	940,339	936,960	969,854	959,132	1,304,388
Never Smoked	704,148	719,582	704,464	770,591	833,555	853,760	1,099,091

3.2 Prevalence of smoking status and self-reported health status, CCHS Cycle 2 to 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Excellent Health							
Current Smoker	20%	17%	16%	16%	15%	15%	13%
Former Smoker	37%	39%	39%	37%	36%	36%	36%
Never Smoked	43%	43%	46%	48%	49%	50%	51%
Very Good Health							
Current Smoker	26%	22%	21%	20%	19%	19%	17%
Former Smoker	37%	39%	39%	37%	37%	37%	38%
Never Smoked	38%	38%	41%	43%	44%	44%	45%
Good Health							
Current Smoker	29%	27%	26%	25%	24%	23%	22%
Former Smoker	36%	39%	37%	37%	36%	38%	37%
Never Smoked	35%	35%	37%	38%	40%	39%	42%
Fair or Poor Health							
Current Smoker	31%	27%	28%	28%	27%	27%	28%
Former Smoker	39%	41%	41%	40%	39%	39%	39%
Never Smoked	31%	31%	31%	33%	34%	34%	33%

Breakdown by age, sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "HealthStatus.xlsx"

D1: Education

1 EDUCATIONAL ATTAINMENT AMONG HOUSEHOLD MEMBERS IS ASSOCIATED WITH LOWER PREVALENCE OF CURRENT SMOKING.

1.1 MEASUREMENTS OF EDUCATION

The CCHS has provided the same measurement of educational attainment for individual respondents (EDUDR04) and for the household (EDUDH04) throughout Cycles 1 to Cycle 7.

The PUMF provides grouped results at 4 levels of education:

- 1. Less than secondary school graduation
- 2. Secondary school graduation, no post-secondary
- 3. Some post-secondary education
- 4. Post-secondary certificate/diploma or university

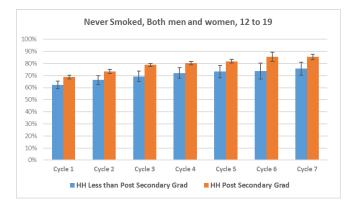
Over the course of the CCHS survey cycles, the proportion of respondents who lived in a household where one or more household member holds a certificate from a post-secondary institution grew from two-thirds to three-quarters. The number of respondents in possession of such a certificate themselves grew from 44% (\pm 0.4%) to 55% (\pm 0.7%).

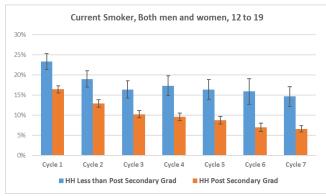
The variables do not provide much detail into differences in post-secondary education (such as the different smoking patterns of those who studied arts or sciences, or who attended university, college or trade school). They do, however, show differences in smoking status between the majority of Canadians with a post-secondary degree and those without.

1.2 CHILDREN FROM MORE EDUCATED FAMILIES ARE LESS LIKELY TO SMOKE.

The one age group where individual educational attainment is inversely related to likelihood of not smoking is those Canadians under 20 years of age.

The educational attainment of family members may have a protective effect on these youth. Those youth aged 12 to 19 who live in households where a family member has a post secondary certificate, diploma or university degree are less likely to be a Current Smoker and more likely to be a Never Smoker. For both those living in a household where there is a post-secondary graduate and those living in one without, there has been a steady decline in smoking between Cycle 1 and Cycle 7.



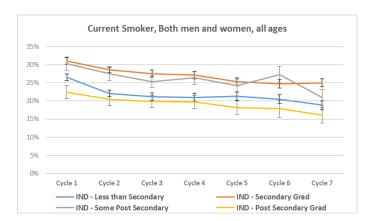


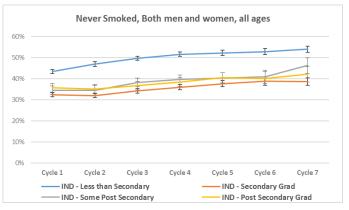
1.3 BETTER EDUCATED CANADIANS ARE NO LESS LIKELY TO TRY SMOKING, BUT THEY ARE MORE LIKELY TO QUIT.

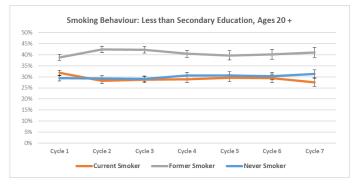
Throughout the 7 Cycles, those who had completed post-secondary education were the least likely to be a Current Smoker, followed by those who had never completed high school. The highest current smoking rates were among those who had graduated from high school and those who had some post-secondary training.

The Canadians who are most likely to have never smoked are those who have not completed high school, with small or no differences among the 3 other groups with higher educational levels. However, this result is influenced by the inclusion of those aged 12-19 in the analysis. If only those aged 20 and over are taken into consideration, the smoking prevalence of Canadians who have not graduated from high school is 28% (± 1.8%).

Between Cycle 1 and Cycle 7, at all educational levels for both men and women, the rate of current smoking fell. The rate of never smoking grew for all education levels, except for those who had less than secondary education and were over 20 years of age.





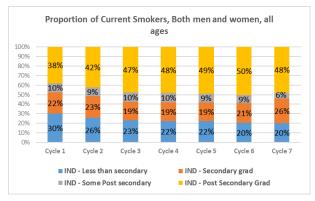


1.4 As Canada becomes more educated, smokers do too.

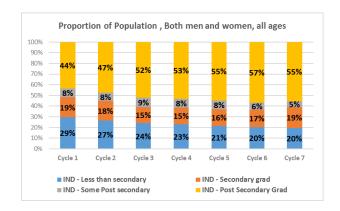
Because of an increase in the percentage of Canadians with post secondary educational attainment in this period, however, there was a disproportionate increase in Current Smokers within this group.

Between Cycle 1 and Cycle 7, the percentage of Canadians who had completed post-secondary training grew (from 44% to 55% of the population). The percentage who had never graduated from high school fell (from 29% to 20%).

The consequence was that the most educated group



made up an increasing share of the current smoking population – growing from 38% in Cycle 1 to 48% in Cycle 7. A similar pattern of growth was seen in all age groups and with both sexes.

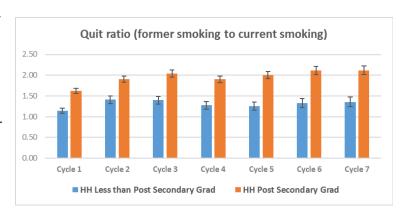


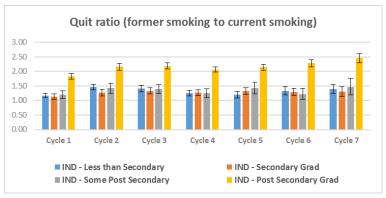
1.5 Better educated smokers are more likely to quit.

Differences in the likelihood of having ever smoked even one cigarette (being an Ever Smoker) vary both with age and with educational attainment. Younger generations are less likely to have ever smoked a cigarette than are older cohorts. As illustrated above, those who have never completed high school are the most likely to have never tried smoking.

But among those who have ever smoked, it is the most educated Canadians (those who have completed a post-secondary program) who are most likely to quit. In Cycle 7, their Quit Ratio (2.6 ± 0.12) was much higher than for the other groups, which hovered around 1.5. These patterns are true both for men and for women.

Among those who ever smoke, there is a greater likelihood of being a quitter (a higher Quit Ratio) for those whose individual or household level of education includes post-secondary certification.

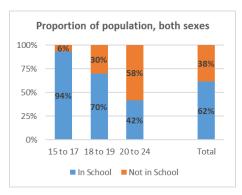


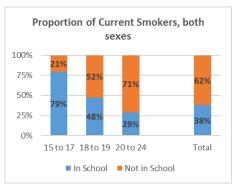


1.6 EARLY SCHOOL-LEAVERS ARE VULNERABLE TO SMOKING INITIATION

Those young Canadians who remain in school are less likely to smoke than their age-equivalent peers who are no longer attending a school, college or university.

CCHS surveyors ask all respondents 15 years of age or over whether they





are currently attending school. Results were available and were reviewed for the following age ranges: 12 to 14 years of age, 15 to 17 years of age, 18 to 19 years of age, 20 to 24 years of age.

Of the over 4 million Canadians between the age of 15 and 24, three-fifths (62%) were in school (2.7 million \pm 108,700), and almost two-fifths (38%) were no longer attending school (1.7 million \pm 78,200).

The relative proportion is reversed with respect to Current Smokers: Of the 800,000 smokers in this age bracket, two-fifths are in school (317,700 \pm 33,000) compared with three fifths who have left school (515,500 \pm 41,237).

Current Smoking prevalence is higher in all the age groups for those who are no longer in school. Overall, smoking prevalence for those in school is 12% (\pm 1.2%), compared with 30% (\pm 2.4%) for those who have left school. This is partly a result of lower rates of initiation: 75% \pm 3% of those in school are Never Smokers compared with 47% \pm 3.1% of those who have left school.

2 TECHNICAL BACKGROUND

Variables used:

- EDUDR04: Highest level of education respondent
- EDUDH04: Highest level of education household
- SDC_8: Student Status

Related Excel files:

- D1-Education.xlsx
 - Table 1. Number of people and prevalence of smoking status
 - Table 2. Share of population and share of Current Smokers
 - Table 3. Quit ratio
- D1-School.xlsx
 - Table 1: Number of people and prevalence, smoking status and share of population and share of Current Smokers

3 SUMMARY TABLES

3.1 SMOKING STATUS BY HOUSEHOLD AND INDIVIDUAL EDUCATIONAL ATTAINMENT, CCHS CYCLES 1 TO 7. NUMBER OF PEOPLE

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Household – No Post Secon	•	•	-,	-,	-,	.,	
Both men and women: total	8,368,947	7,183,443	5,966,894	6,162,037	6,133,316	5,720,293	6,467,467
Current Smoker	2,656,987	2,013,482	1,668,555	1,746,415	1,731,361	1,610,798	1,705,530
Former Smoker	2,943,119	2,779,169	2,275,543	2,277,069	2,235,858	2,109,845	2,445,213
Never Smoker	2,768,841	2,390,792	2,022,796	2,138,553	2,166,097	1,999,650	2,316,724
Household – Post Secondar	y Certificate						
Both men and women: total	16,768,601	17,894,116	18,237,159	19,192,994	20,125,506	20,875,755	22,187,492
Current Smoker	3,824,647	3,677,706	3,545,111	3,697,449	3,577,944	3,618,927	3,602,521
Former Smoker	6,334,235	7,158,630	7,273,227	7,325,172	7,654,476	7,954,197	8,300,807
Never Smoker	6,609,719	7,057,780	7,418,821	8,170,373	8,893,086	9,302,631	10,284,164
Individual – Less than Secon	ndary Graduat	ion (including t	those aged 12-	19)			
Both men and women: total	7,518,742	6,874,543	6,305,483	6,289,316	5,966,570	5,666,765	5,753,672
Current Smoker	1,993,248	1,519,143	1,335,934	1,321,041	1,271,101	1,161,414	1,085,446
Former Smoker	2,258,257	2,129,509	1,839,745	1,721,779	1,580,661	1,509,941	1,564,762
Never Smoker	3,267,237	3,225,891	3,129,804	3,246,496	3,114,808	2,995,410	3,103,464
Individual – Less than Secon	ndary Graduat	ion (Those ove	r 20 only)				
Both men and women: total	4,971,544	4,312,495	3,812,996	3,764,898	3,576,327	3,401,757	3,456,338
Current Smoker	1,584,153	1,220,014	1,094,807	1,087,009	1,056,819	999,581	950,711
Former Smoker	1,925,455	1,829,859	1,611,230	1,524,283	1,420,834	1,369,719	1,421,672
Never Smoker	1,461,936	1,262,622	1,106,959	1,153,606	1,098,674	1,032,457	1,083,955
Individual –Secondary Grad	duation						
Both men and women: total	4,764,227	4,700,725	3,994,109	4,212,988	4,372,249	4,699,796	5,694,219
Current Smoker	1,476,351	1,346,934	1,101,002	1,145,079	1,105,085	1,163,837	1,424,420
Former Smoker	1,743,979	1,846,980	1,523,788	1,550,555	1,619,580	1,709,691	2,072,309
Never Smoker	1,543,897	1,506,811	1,369,319	1,517,354	1,647,584	1,826,268	2,197,490
Individual –Some Post-Seco							
Both men and women: total	2,100,157	1,987,530	2,282,329	2,256,303	2,214,893	1,795,339	1,606,008
Current Smoker	635,940	545,561	577,509	595,943	536,542	489,727	337,102
Former Smoker	738,465	756,816	832,214	767,681	784,702	572,793	526,166
Never Smoker	725,752	685,153	872,606	892,679	893,649	732,819	742,740
Individual -Post Secondary	Certificate						
Both men and women: total	11,118,172	12,264,920	13,722,772	14,439,113	15,245,041	15,984,598	16,254,681
Current Smoker	2,497,111	2,503,598	2,721,014	2,841,525	2,767,052	2,856,090	2,606,684
Former Smoker	4,644,613	5,461,097	5,969,992	6,048,674	6,311,127	6,707,435	6,804,953
Never Smoker	3,976,448	4,300,225	5,031,766	5,548,914	6,166,862	6,421,073	6,843,044

 $\textit{Breakdown by age, sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{D1-Education.xlsx}"}.$

3.2 SMOKING STATUS BY HOUSEHOLD AND INDIVIDUAL EDUCATIONAL ATTAINMENT, CCHS CYCLES 1 TO 7. PERCENTAGE.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle
Household - No Post Second	dary Certifica	te					
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	32%	28%	28%	28%	28%	28%	26%
Former Smoker	35%	39%	38%	37%	36%	37%	38%
Never Smoker	33%	33%	34%	35%	35%	35%	36%
Household - Post Secondary	y Certificate						
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	23%	21%	19%	19%	18%	17%	16%
Former Smoker	38%	40%	40%	38%	38%	38%	37%
Never Smoker	39%	39%	41%	43%	44%	45%	46%
Individual – Less than Secon	dary Gradua	tion (including	those aged 12	-19)			
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	27%	22%	21%	21%	21%	20%	19%
Former Smoker	30%	31%	29%	27%	26%	27%	27%
Never Smoker	43%	47%	50%	52%	52%	53%	54%
Individual – Less than Secon	dary Gradua	tion (age 20+)					
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	32%	28%	29%	29%	30%	29%	28%
Former Smoker	39%	42%	42%	40%	40%	40%	41%
Never Smoker	29%	29%	29%	31%	31%	30%	31%
Individual -Secondary Grad	uation						
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	31%	29%	28%	27%	25%	25%	25%
Former Smoker	37%	39%	38%	37%	37%	36%	36%
Never Smoker	32%	32%	34%	36%	38%	39%	39%
Individual -Some Post-Seco	ndary (no cer	tificate)					
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	30%	27%	25%	26%	24%	27%	21%
Former Smoker	35%	38%	36%	34%	35%	32%	33%
Never Smoker	35%	34%	38%	40%	40%	41%	46%
Individual -Post Secondary	Certificate						
Both men and women: total	100%	100%	100%	100%	100%	100%	100%
Current Smoker	22%	20%	20%	20%	18%	18%	16%
Former Smoker	42%	45%	44%	42%	41%	42%	42%
Never Smoker	36%	35%	37%	38%	40%	40%	42%

 $\textit{Breakdown by age, sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{D1-Education.xlsx}"}.$

3.3 SMOKING STATUS OF YOUNG CANADIANS, AGED 15 TO 24, BY ATTENDANCE AT SCHOOL. CCHS CYCLE 7

	15 to 17	18 to 19	20 to 24	Total	15 to 17	18 to 19	20 to 24	Total
In School								
Current Smoker	71,441	73,512	172,713	317,666	100%	100%	100%	100%
Former Smoker	104,312	77,161	183,590	365,063	6%	13%	18%	12%
Never Smoker	999,257	406,956	629,173	2,035,386	9%	14%	19%	13%
Both men and women: total	1,175,010	557,629	985,476	2,718,115	85%	73%	64%	75%
Not in School								
Current Smoker	18,537	81,003	415,921	515,461	100%	100%	100%	100%
Former Smoker	9,524	41,016	330,496	381,036	23%	34%	30%	30%
Never Smoker	53,110	118,077	632,081	803,268	12%	17%	24%	22%
Both men and women: total	81,171	240,096	1,378,498	1,699,765	65%	49%	46%	47%

 $\textit{Coefficients of variation and 95\% confidence intervals are available on the Excel Workbook~ \center{absolute} \center{D1-School.xlsx}''.$

D2: Household Income and Smoking

1 INCOME AND SMOKING CONTINUE TO BE INVERSELY RELATED

1.1 THE CCHS APPROACH TO COMPARING THE INCOME OF CANADIAN FAMILIES

Since Cycle 3, the CCHS PUMF data has provided tiered estimates of the relative income of households using a derived variable. For Cycle 7, the variable INCDRCA (Distribution of household income – National level) was described as follows:

This derived variable is a distribution of respondents in deciles (ten categories including approximately the same percentage of residents for each province) based on their value for INCDADR, i.e. the adjusted ratio of their total household income to the low income cut-off corresponding to their household and community size. It provides, for each respondent, a relative measure of their household income to the household incomes of all other respondents.¹

Among the challenges of using this variable is the relatively large number of respondents for which information was not available in Cycles 3, 4 and 5 (from 4 to 5 million Canadians). The number of respondents with missing household income data dropped in Cycles 6 and 7 to about 100,000 Canadians. This renders the estimates of the number of people in any income group less useful across the full cycles.

To facilitate analysis, we reduced the income tiers from 10 to 5, i.e. we created income quintiles each of which represents two income deciles.

1.2 THE CIHI ANALYSIS

In November 2015, the Canadian Institute for Health Information released the report "Trends in Income-Related Health Inequalities in Canada." After reviewing the CCHS data, the report found that there was increased income inequality over time among those who smoked. They concluded that this happened as a result of smoking rates among the lowest income level remaining constant while it fell among people living in higher income families.

Their analysis was conducted on the CCHS Master File, and they estimated household income through a "self-reported adjusted household income." The report's authors concluded that:

Trends in Smoking Rates, by Income

- From 2003 to 2013, smoking rates decreased across all income levels combined from 23.6% to 20.6%. However, this trend was due to a decrease in the smoking rates in the highest income group levels.
- Smoking rates decreased by 20.5% or 3.9 percentage points in the highest income level. There was no change over time in the smoking rates in the lowest income level.

If Canadians in the lowest income groups smoked at the same rate as those with higher incomes, the CIHI report estimated there would be a one-quarter reduction in the number of Current Smokers (or 1,6 million fewer smokers).

¹ CCHS. Annual Component - Public Use Microdata File, 2013-2014. Derived Variable (DV) Specifications.

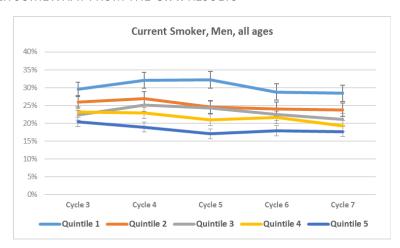
² https://www.cihi.ca/en/factors-influencing-health/health-inequalities/trends-in-income-related-health-inequalities-in

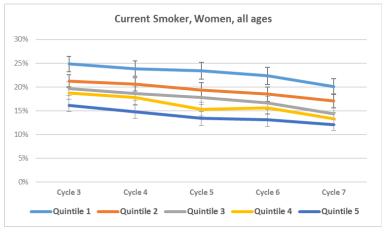
1.3 THE PUMF DATA RESULTS DIFFER SOMEWHAT FROM THE CIHI RESULTS

The CIHI report used different data analysis methods and disaggregated data (i.e. through the Master File) and produced somewhat different results than the simpler methods employed in this report.

CIHI found that Current Smoking rates among men in the lowest quintile increased from 32.2% (± 1.5%) in 2003 to 35.5% (± 2.8%) in 2013. By contrast, this analysis using the CCHS PUMF showed a non-significant decrease in current smoking among men in the lowest household income quintile (Quintile 1) from 30% (± 1.9%) in 2005 to 28% (± 2.3%) in 2013-2014. The CCHS PUMF data also showed no statistically significant decrease in current smoking amongst the lowest 3 income quintiles for men, although the drop in Current Smoking prevalence was significant for the higher two income groups.

The gap between Current Smoking prevalence for men in the poorest and richest homes did not narrow in this period. In Cycle 7, there was a 10.7%





percentage point gap between Current Smoking prevalence for men in the poorest income quintile ($28\% \pm 2.3\%$) compared with the highest income quintile ($18\% \pm 1.4\%$). This compared with a 9.2% gap in Cycle 3: 30% ($\pm 1.9\%$) vs. 20% ($\pm 1.3\%$).

There was a significant decline of about 4 to 5 percentage points for women at all income levels. Current Smoking prevalence for women in the poorest quintile fell from 25% (\pm 1.6%) in Cycle 3 to 20% (\pm 1.6%) in Cycle 7. For women in the highest income quintile, it fell from 16% (\pm 1.3%) to 12% (\pm 1.3%). The PUMF data does not show a growing gap between the lowest and highest income groups of women during this period: the difference was 8.7% in Cycle 3 and 8.1% in Cycle 7.

1.4 Household income and other factors that influence smoking

The CCHS includes variables which are understood to be related both to household income and to smoking status and which may either strengthen or weaken the relationship between income and smoking.

- Women, for example, are over-represented in higher income households and under-represented in lower income households: 17% of women live in Quintile 1 households and 23% of women live in the highest Quintile 5 bracket. For men, the situation is reversed: 22% of men live in the poorest income bracket and 17% of men in the wealthiest.
- Racial status is also associated with income, with Canadians who are identified as members of "visible minorities" making up 40% of the lowest income quintile and only 13% of the highest income quintile. For

- some minorities this is associated with higher current smoking rates, and for others it associated with lower current smoking rates. (This is described in more detail in the section on "Visible Minorities")
- Older Canadians (who were more likely to have quit smoking than younger populations) lived in poorer
 households compared to middle-aged Canadians. Among those over 65 years of age, one-quarter lived in the
 lowest income Quintile 1, and 10% in the highest. Those aged 12 to 30 were similarly over-represented in the
 lower income households. Those Canadians aged 30 to 64 were most likely to be in wealthier households.

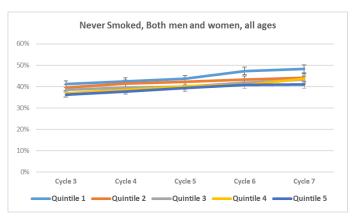
1.5 SMOKING, NEVER SMOKING AND QUITTING BY HOUSEHOLD INCOME

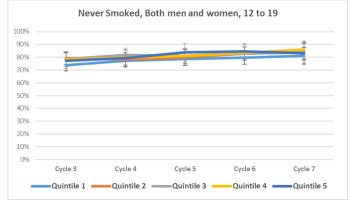
The CCHS data supports the observations made elsewhere that the differences in smoking rates between income groups is not due so much to the difference in smoking initiation as it is to the likelihood of success in quitting. ³ The lowest income groups did not show a greater likelihood to have ever smoked.

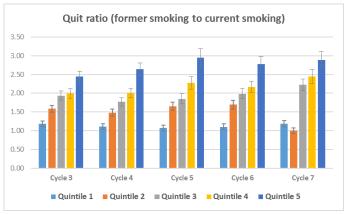
In Cycle 7, the rate of Never Smoking was highest for the lowest income families (48% \pm 1.9%) and lowest for the highest income families (41% \pm 1.6%).

For the youngest cohorts there was no difference between the Quintiles, with children aged 12-19 equally likely (around 85%) to be a Never Smoker. Among Canadians in their 20s, there was again no difference between income groups, with about half of those in all age groups reporting that they had never smoked.

It is with respect to quitting that a difference was seen: in Cycle 7, the Quit Ratio had a steep income relationship, with both men and women Ever Smokers in the highest income groups being more than twice as likely to have quit as those in the lowest income groups.







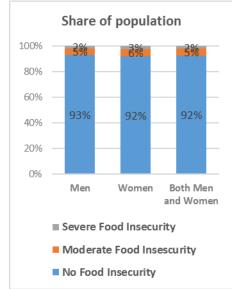
3 See Allan Marsh and Stephen MacKay, "Poor Smokers", Policy Studies Institute, 1994. http://www.psi.org.uk/site/publication_detail/1287.

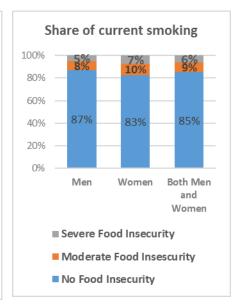
1.6 1 IN 7 SMOKERS EXPERIENCES FOOD INSECURITY

One marker of economic hardship is food insecurity. The CCHS PUMF measures this using a variable with the following 3 categories:⁴

- Food secure: No, or one, indication of difficulty with income-related food access.
- Moderately food insecure: indication of compromise in quality and/or quantity of food consumed.
- Severely food insecure: indication of reduced

food intake and disrupted eating patterns.





In Cycle 7, one-half (48%) of Canadians who experienced severe food insecurity were Current Smokers (267,800 \pm 30,500 smokers), as were one-third (32%) of those who experienced moderate food insecurity (398,500 \pm 38,300 smokers).

Otherwise expressed, almost 1 in 7 smokers (15%) experienced some level of food insecurity. This compares with 1 in 15 (7%) of the general population.

2 TECHNICAL BACKGROUND

Variables used:

- INCDRCA
 Distribution of household income
- FSCDAFS2 Food Insecurity

Related Excel files:

- Incomequintile.xlsx
 - Table 1: Number of people and prevalence, by smoking status
 - o Table 2: Share of population and proportion of Current Smokers
 - o Table 3: Quit Ratio
- Food Insecurity
 - o Table 1: Share of population and proportion of Current Smokers

⁴ This subject is asked as part of the CCHS Optional Content, and was not included in the questions asked in Alberta or Newfoundland. It was asked in Prince Edward Island, Nova Scotia, Saskatchewan, New Brunswick, Nunavut, Northwest Territories, Ontario, Alberta, Quebec.

3 SUMMARY TABLES

3.1 SMOKING STATUS AND HOUSEHOLD INCOME QUINTILE

	Cycle3	Cycle 4	Cycle 5	Cycle 6	Cycle 7	Cycle3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
		ľ	Number of Peopl	e				Prevalence	9	
Quintile 1										
Total	4,575,280	4,669,462	4,690,733	5,780,256	5,912,420	100%	100%	100%	100%	100%
Current Smoker	1,228,876	1,274,289	1,275,674	1,447,475	1,398,614	27%	27%	27%	25%	24%
Former Smoker	1,460,778	1,410,808	1,367,716	1,598,237	1,662,014	32%	30%	29%	28%	28%
Never Smoked	1,885,626	1,984,365	2,047,343	2,734,544	2,851,792	41%	42%	44%	47%	48%
Quintile 2										
Total	4,523,908	4,685,190	4,689,765	5,865,628	5,925,148	100%	100%	100%	100%	100%
Current Smoker	1,059,575	1,106,051	1,023,101	1,235,169	1,194,260	23%	24%	22%	21%	20%
Former Smoker	1,678,999	1,639,730	1,683,660	2,096,147	2,112,618	37%	35%	36%	36%	36%
Never Smoked	1,785,334	1,939,409	1,983,004	2,534,312	2,618,270	39%	41%	42%	43%	44%
Quintile 3										
Total	4,602,254	4,696,306	4,677,531	5,856,467	5,997,728	100%	100%	100%	100%	100%
Current Smoker	966,260	1,027,329	985,074	1,142,786	1,057,768	21%	22%	21%	20%	18%
Former Smoker	1,868,100	1,816,407	1,821,974	2,264,406	2,351,739	41%	39%	39%	39%	39%
Never Smoked	1,767,894	1,852,570	1,870,483	2,449,275	2,588,221	38%	39%	40%	42%	43%
Quintile 4										
Total	4,586,071	4,774,508	4,674,636	5,719,724	5,915,381	100%	100%	100%	100%	100%
Current Smoker	968,223	978,519	855,885	1,070,787	967,920	21%	20%	18%	19%	16%
Former Smoker	1,931,263	1,963,576	1,942,764	2,319,881	2,368,969	42%	41%	42%	41%	40%
Never Smoked	1,686,585	1,832,413	1,875,987	2,329,056	2,578,492	37%	38%	40%	41%	44%
Quintile 5										
Total	4,476,309	4,585,021	4,658,642	5,821,048	5,940,543	100%	100%	100%	100%	100%
Current Smoker	829,675	785,236	717,027	914,730	902,473	19%	17%	15%	16%	15%
Former Smoker	2,028,933	2,073,969	2,111,849	2,534,933	2,608,887	45%	45%	45%	44%	44%
Never Smoked	1,617,701	1,725,816	1,829,766	2,371,385	2,429,183	36%	38%	39%	41%	41%

Breakdown by age, sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Incomequintile.xlsx".

3.2 SMOKING STATUS AND FOOD INSECURITY

	Men	Women	Men + Women	Men	Women	Men + Women	Men	Women	Men + Women
	N	lo Food Insecu	rity	Mode	rate Food Ins	ecurity	Seve	re Food Insec	urity
Total	10,753,433	10,909,909	21,663,342	560,942	676,521	1,237,463	240,233	312,306	552,539
Current Smoker	2,225,155	1,584,083	3,809,238	205,212	193,271	398,483	131,224	136,532	267,756
Former Smoker	4,443,516	3,823,813	8,267,329	139,285	158,928	298,213	49,071	67,656	116,727
Never Smoked	4,084,762	5,502,013	9,586,775	216,445	324,322	540,767	59,938	108,118	168,056

 $\textit{Coefficients of variation and 95\% confidence intervals are available on the Excel Workbook \underline{\text{``FoodInsecurity.xlsx''}}.$

D3: Occupation and Work Status

1 WHITE COLLAR WORKERS ARE LEAST LIKELY TO BE SMOKERS.

1.1 THE FIVE OCCUPATIONAL CATEGORIES

Since Cycle 4, the CCHS PUMF has provided information on the 5 occupational groups to which respondents who are members of the workforce belong. Different occupational groups were used in earlier cycles (1 to 3), which hinders the ability to review changes in smoking patterns between these groups over the whole 7 cycles. As a result, this section focuses on the results of cycles 4 to 7.

Each survey respondent aged 15 to 75 who reported having worked or having been absent from work over the past week is asked what kind of work they perform (LBS_Q35), what kind of business they work in (LBS_Q34), and the name of their employer (LBS_Q33). From this information, a variable was derived (LBSGSOC) with 5 categories of occupation

Group 1 Management, Natural and Applied Sciences, Health, Social Sciences, Education, Religion, Art, Culture and Recreation

Group 2 Business, Finance, Administration

Group 3 Sales and Service

Group 4 Trades, Transport and Equipment Operator

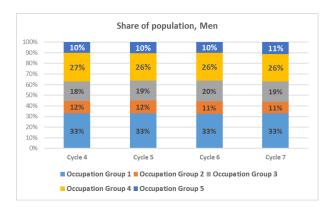
Group 5 Occupations Unique to Primary Industry, Processing, Manufacturing and Utilities

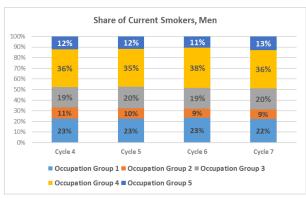
The occupation of about 60% of survey respondents in Cycle 7 was identified in this way (17.8 million of 30 million respondents.)

Those Canadians (aged 15 to 75) who were not participating in the workforce were identified as not having a job, or as being permanently unable to work. (LBSDWSS). In Cycle 7, this was about 30% of the surveyed population. The occupational status of about 10% of the survey population was not identified, as the respondents were not within the age parameters of 15 to 75 years of age.

1.2 Men who work in the 'Trades' are most likely to be smokers

In Cycle 7, the largest occupational category of male workers (33%) was in the white-collar jobs of Group 1 (Management, Natural and Applied Sciences, Health, Social Sciences, Education, Religion, Art, Culture and Recreation). The second largest (26%) was the blue-collar Group 4 (Trades, Transport and Equipment Operator). A similar distribution of men among occupational groups was found in all 4 cycles considered.





The largest proportion of male Current Smokers were in the Trades Occupational Group 4 (36%), while the proportion of Current Smokers was lower for the knowledge worker Group 1 (22%) relative to their proportion of the population. For the other three occupational groupings, the proportion of Current Smokers was closer to the relative proportion of the population.

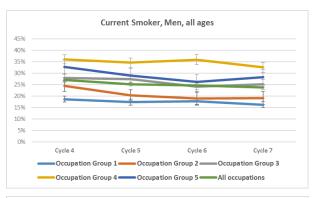
Throughout the period between Cycle 3 and Cycle 7, the higher proportion of Current Smokers in the blue-collar occupation group can be attributed to a lower likelihood of being a Never Smoker, as well as a lower likelihood of quitting.

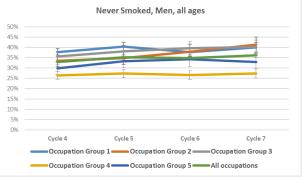
In Cycle 7, only 27% (\pm 2%) of workers in the "Trades" Occupational Group 4 workers are Never Smokers (compared with approximately 40% (\pm 2%) of white collar workers in Occupational Group 1, 41% (\pm 4%) in Occupational Group 2 and 40% (\pm 3%) in Occupational Group 3.

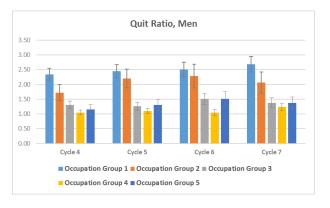
Between Cycle 4 and Cycle 7, there was a decline in the prevalence of Current Smoking among the white collar Occupational Groups 1, 2, and also the "trades" occupational group 4 (highest-smoking level).

During the same period, there was no statistically significant change in Current Smoking prevalence for men who worked in the "Service" occupational Group 3, or those who worked in the primary industries Group 5.

The Quit Ratio for white collar Groups 1 and 2 was higher than for Groups 3, 4 or 5.

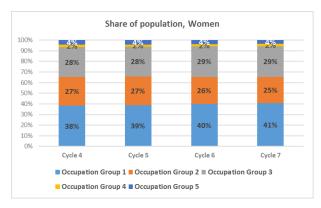


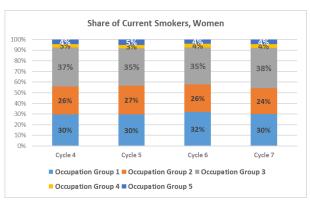




1.3 MOST WOMEN SMOKERS WORK IN "SALES AND SERVICE" OR WHITE COLLAR JOBS.

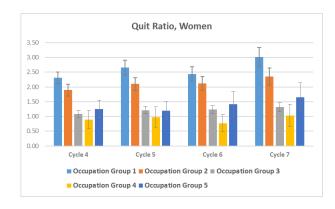
The occupational profile for women differed with that for men, with more than 6 in 10 women working in the white collar Group 1 or Group 2 occupational categories during Cycles 4 to 7.





In a pattern observed in all 4 cycles, the proportion of female Current Smokers was disproportionately low for those in Group 1 occupations. It was disproportionately high for those who work in Group 3 "Sales and Service" and for those in the Trades Occupational Group 4. Very few women (under 200,000) work in the latter occupational category.

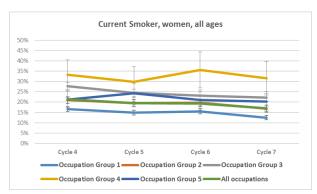
In Cycle 7, Current Smoking prevalence was lowest for women in Occupational Group 1, at 13% (\pm 1%); It was highest for women in Occupational Group 4, at 32% (\pm 8%).

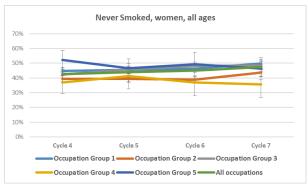


Current Smoking rates declined by about 4 percentage points between Cycle 4 and Cycle 7 among women who work in Groups 1, 2 and 3. There has been no decline for the other 2 occupational groups, although only 110,000 women Current Smokers are employed in these fields.

There were narrower differences between likelihood of being a Never Smoker. Here again, women who worked in Occupational Group 1 were most likely to be a Never Smoker. Never smoking prevalence was 50 (± 2%) among these women, compared with 36% (± 9%) for women in Occupational Group 4, with lower rates in the other Occupational Categories.

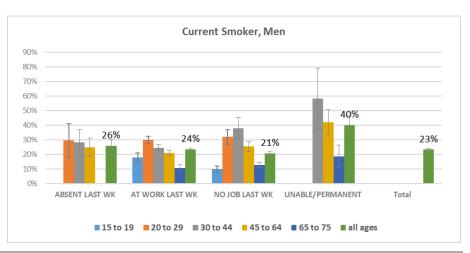
The Quit Ratio for women was higher in Occupational Groups 1 and 2 than it was for the other 3 groups.





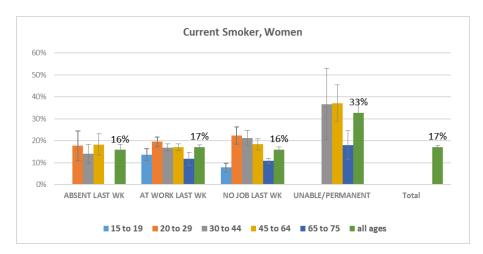
1.4 CANADIANS WHO DON'T WORK ARE SOMEWHAT LESS LIKELY TO SMOKE THAN THOSE WHO DO, UNLESS THEY ARE PERMANENTLY UNABLE TO WORK.

In Cycle 7, among the surveyed population, 11% (3 million) fell outside the age range used to categorize workforce participation (15 to 75 years old). More than half (55%, 16.6 million) reported having worked in the past week, with about one-twentieth of the population (5%, 1.4 million) reported having a job but being absent from work in



the previous week. One quarter (25%, 7.5 million) reported not having a job in the past week, and 2.4% (721,400) reported being permanently unable to work.

Smoking rates among those who were permanently unemployed were considerably higher than for those who were working (36% \pm 4.1% vs. 21% \pm 0.7%), with a roughly similar gap for men and women. The absolute number of smokers is much higher for those who work compared to those who are permanently unemployed. In Cycle 7 an estimated 3.4 million employed Canadians



were Current Smokers compared to 261,000 (± 29,800) Canadians who were permanently unable to work.

Among those who were not working in the past week (a group which would include diverse circumstances such as homemakers, retirees, students, unemployed), the difference in smoking rates varied according to age groups. Among men aged 30 to 44, for example, current smoking prevalence was 38% (\pm 7.4%) for those without a job in the past week compared with 25% (\pm 2%) for those who were working. A similar pattern was observed for women.

2 TECHNICAL BACKGROUND

Variables used:

- LBSGSOC
 Occupation Group
- LBSDWSS
 Working status last week

Related Excel files:

- D3-OccupationalGroups.xlsx
 - o Table 1. Number of people and prevalence, by smoking status
 - o Table 2. Share of population and share of Current Smokers
 - o Table 3. Quit Ratio
- Workstatus.xlsx
 - o Table 1. Number of people and prevalence, by smoking status.

3 SUMMARY TABLES

3.1 SMOKING STATUS AND OCCUPATIONAL CATEGORIES

	Cycle 4	Cycle 5	Cycle 6	Cycle 7	Cycle 4	Cycle 5	Cycle 6	Cycle 7
	•	· · · · · · · · · · · · · · · · · · ·	of People	•	,	<u> </u>	/alence	
Group 1: Management Men	, Natural and App	plied Sciences , Heal	th, Social Sciences, I	Education, Religio	n, Art, Cult	ure and Re	creation	
Total	2,957,103	2,955,549	2,992,757	3,081,577	100%	100%	100%	100%
Current Smoker	551,272	511,431	531,042	501,216	19%	17%	18%	16%
Former Smoker	1,293,603	1,251,393	1,332,724	1,347,683	44%	42%	45%	44%
Never Smoked					38%	40%	38%	40%
	1,112,228	1,192,725	1,128,991	1,232,678	36%	40%	38%	40%
Women	2.046.215	2 116 707	2 220 075	2 417 000	1000/	100%	100%	100%
Total	3,046,215	3,116,707	3,238,875	3,417,900	100%			
Current Smoker	508,098	464,277	503,550	427,313	17%	15%	16%	13%
Former Smoker	1,178,472	1,232,477	1,230,133	1,286,762	39%	40%	38%	38%
Never Smoked	1,359,645	1,419,953	1,505,192	1,703,825	45%	46%	46%	50%
Group 2: Business, Fina	ance, Administrat	tion						
Men								
Total	1,045,340	1,073,341	1,052,523	1,028,541	100%	100%	100%	100%
Current Smoker	254,973	218,200	198,750	197,182	24%	20%	19%	19%
Former Smoker	439,467	480,809	454,349	406,250	42%	45%	43%	39%
Never Smoked	350,900	374,332	399,424	425,109	34%	35%	38%	41%
Women								
Total	2,117,117	2,158,261	2,071,753	2,076,897	100%	100%	100%	100%
Current Smoker	444,480	421,393	406,430	348,579	21%	20%	20%	17%
Former Smoker	841,093	884,704	860,364	819,635	40%	41%	42%	39%
Never Smoked	831,544	852,164	804,959	908,683	39%	39%	39%	44%
Group 3: Sales and Ser	vice							
Men								
Total	1,652,874	1,696,782	1,813,095	1,783,074	100%	100%	100%	100%
Current Smoker	461,802	463,408	436,731	447,836	28%	27%	24%	25%
Former Smoker	603,836	585,991	657,874	617,449	37%	35%	36%	35%
Never Smoked	587,236	647,383	718,490	717,789	36%	38%	40%	40%
Women	307,230	0.7,505	, 10, 150	, 1,,,,,,,,	1 3070	5575	.0,0	1070
Total	2,249,468	2,262,568	2,339,766	2,419,415	100%	100%	100%	100%
Current Smoker	622,598	554,451	543,291	538,179	28%	25%	23%	22%
Former Smoker	677,055	673,439	669,235	707,917	30%	30%	29%	29%
Never Smoked	949,815	1,034,678	1,127,240	1,173,319	42%	46%	48%	48%
Group 4: Trades, Trans			1,127,240	1,173,313	1 42/0	4070	4070	4070
Men	port and Equipm	ent operator						
Total	2,404,040	2,317,438	2,382,346	2,440,712	100%	100%	100%	100%
Current Smoker	864,379	801,363	854,867	792,757	36%	35%	36%	32%
Former Smoker	905,287	·	· · · · · · · · · · · · · · · · · · ·	979,581	38%	38%	38%	40%
	•	880,922	895,297					
Never Smoked	634,374	635,153	632,182	668,374	26%	27%	27%	27%
Women	150 205	162 600	150 513	167 441	1000/	1000/	100%	1009/
Total	159,305	162,690	159,512	167,441	100%	100%	100%	100%
Current Smoker	53,069	48,420	56,862	52,901	33%	30%	36%	32%
Former Smoker	47,341	47,369	43,743	54,699	30%	29%	27%	33%
Never Smoked	58,895	66,901	58,907	59,841	37%	41%	37%	36%
Group 5: Occupations (Men	Unique to Primar	y Industry, Processir	ng, Manufacturing a	nd Utilities				
Total	1,243,938	1,246,917	1,227,670	1,340,619	100%	100%	100%	100%
Current Smoker	366,632	346,223	305,031	353,910	33%	29%	26%	28%
Former Smoker	428,566	442,001	455,986	505,129	38%	38%	40%	39%
Never Smoked	448,740	458,693	466,653	481,580	30%	33%	34%	33%
Women	440,740	730,033	400,000	701,300	1 3070	33/0	J 4 /0	33/0
Total	895,905	923,431	927,144	1,037,393	100%	100%	100%	100%
Current Smoker Former Smoker	292,777	267,728	241,989	292,570	21%	24%	21%	20%
	336,252	348,034	366,980	403,470	27%	29%	30%	34%
Never Smoked	266,876	307,669	318,175	341,353	52%	47%	49%	46%

 $Coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "{\it \underline{Occupationalgroups.xlsx}}".$

3.2 SMOKING STATUS AND WORKFORCE STATUS (CYCLE 7)

	ABSENT LAST WK	AT WORK LAST WK	NO JOB LAST WK	UNABLE/P ERMANEN T	Total	ABSEN T LAST WK	AT WORK LAST WK	NO JOB LAST WK	UNABL E/PER MANE NT	Total
		N	lumber of People					Prevalence		
Both men and wo	men									
Total	1,374,474	16,536,393	7,482,650	717,605	26,111,122	100%	100%	100%	100%	100%
Current Smoker	272,757	3,411,538	1,345,999	261,023	5,291,317	20%	21%	18%	36%	20%
Former Smoker	552,159	6,221,758	2,787,576	241,455	9,802,948	40%	38%	37%	34%	38%
Never Smoked	549,558	6,903,097	3,349,075	215,127	11,016,857	40%	42%	45%	30%	42%
Men										
Total	543,832	8,909,833	3,190,635	358,128	13,002,428	100%	100%	100%	100%	100%
Current Smoker	141,066	2,101,963	662,053	143,650	3,048,732	26%	24%	21%	40%	23%
Former Smoker	231,895	3,547,631	1,325,992	134,545	5,240,063	43%	40%	42%	38%	40%
Never Smoked	170,871	3,260,239	1,202,590	79,933	4,713,633	31%	37%	38%	22%	36%
Women										
Total	830,642	7,626,560	4,292,015	359,477	13,108,694	100%	100%	100%	100%	100%
Current Smoker	131,691	1,309,575	683,946	117,373	2,242,585	16%	17%	16%	33%	17%
Former Smoker	320,264	2,674,127	1,461,584	106,910	4,562,885	39%	35%	34%	30%	35%
Never Smoked	378,687	3,642,858	2,146,485	135,194	6,303,224	46%	48%	50%	38%	48%

Breakdown by age, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Workstatus.xlsx".

D4: Immigration and Smoking

1 IMMIGRANTS SMOKE LESS THAN DO THOSE BORN IN CANADA.

1.1 IMMIGRATION CONTRIBUTES TO CANADA'S POPULATION GROWTH

Since Cycle 1, the CCHS has included core questions to determine whether the respondent is born in Canada (non-immigrant) or immigrated to Canada. They were also asked in which country they were born, and when they first arrived in Canada.

Partial information from these questions was provided in the CCHS PUMF as a derived variables indicating the immigration status of each respondent (SDCFIMM).

Between Cycle 1 and Cycle 7, the number of people who identified themselves as immigrants increased by 1.6 million people (33%), compared to the non-immigrant population increase of 1.8 million people (8% growth).⁵ In Cycle 7, immigrants made up 24% of the surveyed population, compared with 21% in Cycle 1.

1.2 IMMIGRANTS TO CANADA ARE LESS LIKELY TO SMOKE AND MORE LIKELY TO QUIT THAN NON-IMMIGRANT CANADIANS.

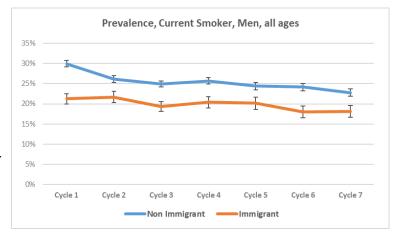
Overall, in Cycle 7 immigrants were approximately half as likely to be Current Smokers as non-immigrant Canadians (12% \pm 0.8% vs. 21% \pm 0.6%).

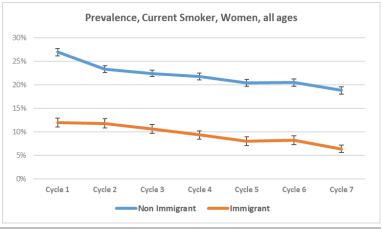
The difference in the Current Smoking rate was greater between immigrant and nonimmigrant women (6% \pm 0.8% vs. 19% \pm 0.8%) than it was for men (18% \pm 1.4% vs. 23% \pm 1.4%)

The lower smoking prevalence among immigrants reflects a lesser likelihood of

ever smoking. The rate of never smoking is greater for immigrant than non-immigrant men ($43\% \pm 2.4\%$ vs. $36\% \pm 1.1\%$, respectively) and even more so for immigrant than non-immigrant women ($72\% \pm 2.9\%$ vs. $43\% \pm 1.2\%$).

It also reflects a greater likelihood of quitting among immigrants. In Cycle 7, the quit ratio for immigrant men was higher than for non-immigrant men (2.13 \pm 0.21 vs. 1.81 \pm 0.09), as it was for women (3.31 \pm 0.48 vs. 2.06 \pm 0.10). There was no age group for which non-immigrant Canadians





⁵ 95% CI on these estimates were not calculated.

had a greater quit ratio or a higher rate of never smoking.

These patterns have been stable over the 7 Cycles: the decrease in prevalence of smoking has been comparable for both immigrant and non-immigrant populations. The decrease from 28% (\pm 0.5%) in cycle 1 to 21% in cycle 7 for non-immigrants and the decrease from 17% (\pm 0.8%) in cycle 1 to 12% in cycle 7 for immigrants both represent a statistically significant decrease of about 20% in the smoking rate.

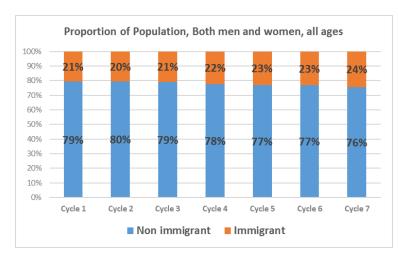
1.3 IMMIGRATION IS CONTRIBUTING TO CANADA'S LOWER SMOKING RATES, EVEN THOUGH THEY MAKE UP AN INCREASING PROPORTION OF THE SMOKING POPULATION.

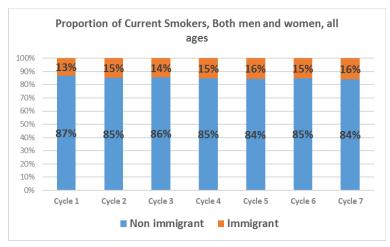
Because they are less likely to smoke and because they are a greater relative proportion of the Canadian population in cycle 7 compared to cycle 1, immigrant Canadians are reducing the proportion of the Canadian population who are Current Smokers.

The absolute number of non-immigrant smokers declined between Cycle 1 and Cycle 7 by 1.2 million persons (a 20% reduction in the number of Current Smokers). The number of immigrant smokers declined by only 23,700, from 874,700 to 851,000 Current Smokers. This represented a 3% reduction in the number of immigrant Current Smokers.

During the same period, the absolute growth in the number of immigrants was larger than the number of additional non-immigrants. There were 1.566 million additional non-immigrants in Cycle 7 (an 8% increase) compared with Cycle 1, and 1.768 million more immigrants (a 33% increase).

As a consequence, the impact of immigrant smoking rates on the overall smoking prevalence in Canada was greater in Cycle 7 than it was in Cycle 1. Because





smoking rates are lower in this community, this means that increasing immigration contributed to a reduction in Canada's smoking prevalence.

If the Current Smoking prevalence were the same among immigrants as among non-immigrants, the growth in the immigrant population would have resulted in 214,000 additional Current Smokers.

2 TECHNICAL BACKGROUND

Variables used:

• SDCFIMM – immigration status

Related Excel files:

- Immigration.xlsx
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 2: Share of population and share of Current Smokers
 - o Table 3: Quit Ratio

3 SUMMARY TABLES

3.1 NUMBER OF PEOPLE, BY SMOKING STATUS

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Immigrant							
Both men and women: total	5,278,335	5,240,996	5,519,942	6,059,586	6,417,283	6,541,381	7,045,913
Current Smoker	874,690	876,594	822,370	893,499	893,343	857,268	850,987
Former Smoker	1,664,391	1,777,643	1,826,132	1,803,721	1,928,111	1,956,448	2,088,261
Never Smoker	2,739,254	2,586,759	2,871,440	3,362,366	3,595,829	3,727,665	4,106,665
Men: Total	2,612,043	2,603,509	2,715,161	2,961,525	3,134,559	3,258,014	3,417,721
Current Smoker	555,054	564,929	524,913	603,443	630,922	586,847	618,007
Former Smoker	1,038,477	1,088,963	1,133,469	1,135,869	1,183,185	1,237,726	1,316,279
Never Smoker	1,018,512	949,617	1,056,779	1,222,213	1,320,452	1,433,441	1,483,435
Women Total	2,666,292	2,637,487	2,804,781	3,098,061	3,282,724	3,283,367	3,628,192
Current Smoker	319,636	311,665	297,457	290,056	262,421	270,421	232,980
Former Smoker	625,914	688,680	692,663	667,852	744,926	718,722	771,982
Never Smoker	1,720,742	1,637,142	1,814,661	2,140,153	2,275,377	2,294,224	2,623,230
Non-immigrant							
Both men and women: total	20,252,890	20,356,055	20,864,764	21,157,935	21,534,016	21,735,229	21,818,625
Current Smoker	5,754,820	5,029,391	4,939,308	5,019,030	4,815,864	4,843,222	4,534,863
Former Smoker	7,735,991	8,341,442	8,384,685	8,306,516	8,420,292	8,583,164	8,726,225
Never Smoker	6,762,079	6,985,222	7,540,771	7,832,389	8,297,860	8,308,843	8,557,537
Men Total	9,947,004	9,995,376	10,281,612	10,438,850	10,625,941	10,700,686	10,834,250
Current Smoker	2,979,166	2,608,389	2,564,764	2,682,937	2,590,425	2,583,435	2,468,705
Former Smoker	3,955,150	4,290,640	4,303,308	4,277,591	4,290,257	4,410,526	4,478,325
Never Smoker	3,012,688	3,096,347	3,413,540	3,478,322	3,745,259	3,706,725	3,887,220
Women Total	10,305,886	10,360,679	10,583,152	10,719,085	10,908,075	11,034,543	10,984,375
Current Smoker	2,775,654	2,421,002	2,374,544	2,336,093	2,225,439	2,259,787	2,066,158
Former Smoker	3,780,841	4,050,802	4,081,377	4,028,925	4,130,035	4,172,638	4,247,900
Never Smoker	3,749,391	3,888,875	4,127,231	4,354,067	4,552,601	4,602,118	4,670,317

Breakdown by age, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Immigration xlsx".

3.2 PERCENTAGE OF PEOPLE, BY SMOKING STATUS

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Immigrant							
Both Men and Women							
Current Smoker	17%	17%	15%	15%	14%	13%	12%
Former Smoker	32%	34%	33%	30%	30%	30%	30%
Never Smoker	52%	49%	52%	55%	56%	57%	58%
Men							
Current Smoker	21%	22%	19%	20%	20%	18%	18%
Former Smoker	40%	42%	42%	38%	38%	38%	39%
Never Smoker	39%	36%	39%	41%	42%	44%	43%
Women							
Current Smoker	12%	12%	11%	9%	8%	8%	6%
Former Smoker	23%	26%	25%	22%	23%	22%	21%
Never Smoker	65%	62%	65%	69%	69%	70%	72%
Non-immigrant							
Both Men and Women							
Current Smoker	28%	25%	24%	24%	22%	22%	21%
Former Smoker	38%	41%	40%	39%	39%	39%	40%
Never Smoker	33%	34%	36%	37%	39%	38%	39%
Men							
Current Smoker	30%	26%	25%	26%	24%	24%	23%
Former Smoker	40%	43%	42%	41%	40%	41%	41%
Never Smoker	30%	31%	33%	33%	35%	35%	36%
Women							
Current Smoker	27%	23%	22%	22%	20%	20%	19%
Former Smoker	37%	39%	39%	38%	38%	38%	39%
Never Smoker	36%	38%	39%	41%	42%	42%	43%

Breakdown by age, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Immigration xlsx".

D5: Visible Minorities

1 CULTURAL AND RACIAL COMPONENTS ASSOCIATED WITH SMOKING STATUS ARE DIFFICULT TO ADDRESS THROUGH THE CCHS PUMF

Since Cycle 1, the CCHS has included core questions to determine the respondents' cultural and racial identity. In Cycle 7, these included questions such as

SDC_Q4A: To which ethnic or cultural groups did your ancestors belong? (For example: French, Scottish, Chinese, East Indian)

SDC_Q4B_1: Are you an Aboriginal person, that is, First nations, Métis or Inuk?

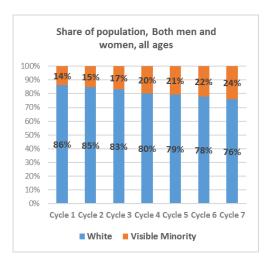
SDC_N4B_2: You may belong to one or more racial or cultural groups on the following list. Are you? White, South Asian (e.g., East Indian, Pakistani, Sri Lankan, etc.), Chinese, Black, Filipino, Latin American, Arab, Southeast Asian (e.g., Vietnamese, Cambodian, Malaysian, Laotian, etc.), West Asian (e.g., Iranian, Afghan, etc.), Korean, Japanese, Other (Specify).

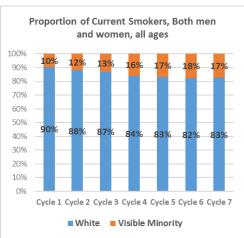
Potential insights between cultural and racial identify and current smoking are lost, however, because the derived variable (SDCGCGT) is presented with only two categories: "White" or "Visible minority".

Using the CCHS PUMF, it was therefore not possible to look separately at the smoking status of Aboriginal, Métis or Inuk Canadians, nor at the smoking patterns of other culturally distinctive groups. While it is beyond the scope of this report, further analysis using the CCHS Master Files, which includes more granular data, should provide better insight into the relationship of cultural identity and smoking status.

1.1 "VISIBLE MINORITY" CANADIANS MAKE UP AN INCREASING PROPORTION OF THE POPULATION, AND AN INCREASING SHARE OF THE SMOKING POPULATION.

In Cycle 1, 14% of Canadians were identified in the CCHS as "visible minorities", this increased to 24% for cycle 7. Among younger Canadians, the increase was more pronounced: from 17% in Cycle 1 to 33% in Cycle 7 for those aged 12 to 29: For those aged 45 to





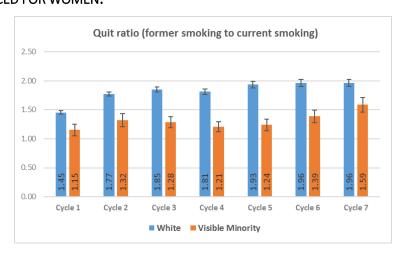
64, the increase was only from 12% in Cycle 1 to 19% in Cycle 7.

As discussed below, Visible Minority Canadians are less likely to smoke than are "white" Canadians, and they consequently make up a relatively smaller proportion of the smoking population than that of the general population. Nonetheless, compared with the earlier CCHS cycles, smokers are more likely to belong to racially or culturally distinct communities.

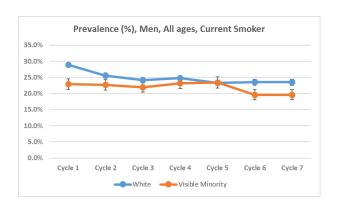
1.2 "VISIBLE MINORITY" MEN ARE SOMEWHAT LESS LIKELY TO SMOKE THAN "WHITE" MEN. THE DIFFERENCE IS MORE PRONOUNCED FOR WOMEN.

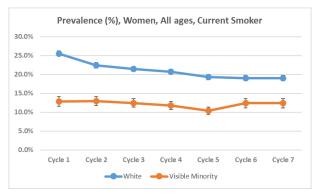
The likelihood of being a Current Smoker was lower for those who belong to visible minority communities, even though it is known that among some of these communities (i.e. Aboriginal, Métis and Inuit), the rates are much higher.

The difference in the current smoking rate between visible minority and "white" Canadians was more pronounced for women in the older age brackets, but the gap between these two groups is narrowing for women in the younger age groups.



The difference in smoking prevalence can be attributed to a much lower rate of having ever smoked. The probability of quitting is lower for "visible minority" Canadians than for "white" smokers. This is true for both men and women.

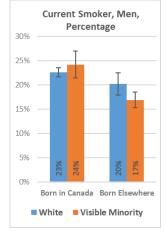


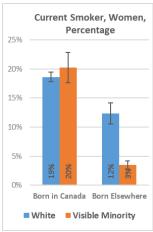


1.3 WOMEN BORN OUTSIDE CANADA ARE LESS LIKELY TO BE SMOKERS, ESPECIALLY IF THEY ARE MEMBERS OF A "VISIBLE MINORITY".

In Cycle 7, the difference between smoking rates of "white" and "visible minority" Canadians who were born in Canada was not significant with respect to either men or women: 19% (\pm 0.9%) of "white" Canadian women were Current Smokers, compared with 20% (\pm 2.6%) of "visible minority women. The respective figures for men were 23% (\pm 0.9%) and 24% (\pm 2.9%).

It is with respect to women born outside Canada that larger differences can be seen. Women born outside Canada were less likely to smoke than are women born in Canada, whatever their cultural/racial identity. For





"visible minority" women born outside Canada, the smoking rate was extremely low $(3\% \pm 1\%)$. Eighty-six percent $(\pm 3\%)$ of these women were Never Smokers. Among those who smoked, the quit ratio was an impressive 3.1% (± 1.24) .

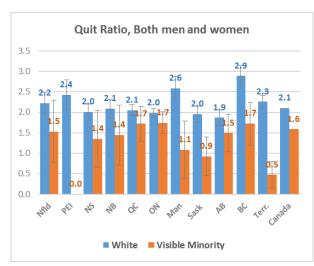
For "visible minority" men born outside Canada, smoking prevalence was similar to that of "white" men born outside Canada: 17% ($\pm 1.6\%$) and 20% ($\pm 1.6\%$) respectively.

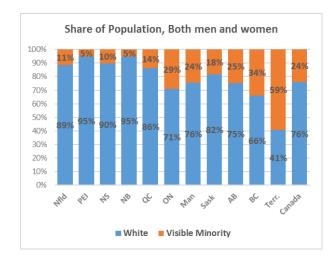
1.4 DIFFERING CIRCUMSTANCES IN CANADIAN PROVINCES

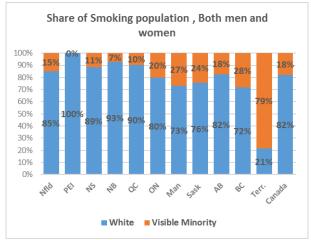
Data from Cycle 7 showed that in the western provinces and in the northern territories, "visible minority" smokers are a larger proportion of the smoking population than they are in the eastern and central provinces.

Manitoba and Saskatchewan are the only two provinces where "visible minority" Canadians make up a relatively greater proportion of Current Smokers, than in the general population. Those provinces have relatively large indigenous populations.

In all provinces, the probability of quitting was lower for visible minority Canadians than for "white" Canadians. In British Columbia, for example, where the Quit Ratio for "White" Canadians was the highest in the country (2.9), the ratio for "visible minority" Ever Smokers was only 1.7.





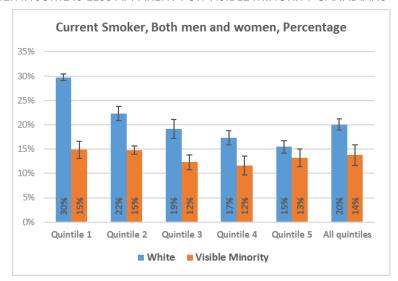


1.5 The protective effect of higher income is less apparent for visible minority Canadians

Smoking prevalence was strongly related to income: Canadians whose households were in the higher income groups were less likely to be Current Smokers than those in the lower income groups.

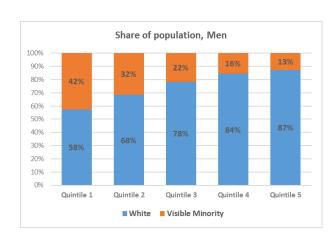
For Canadians with "visible minority" status, however, the differences in current smoking prevalence between income quintiles was smaller and not always statistically significant.

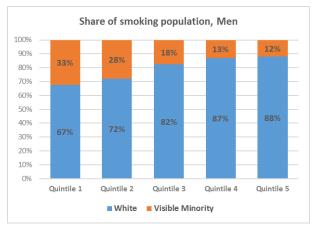
Nonetheless, the percentage of visible minority Canadians in the lower income quintiles greatly exceeded the percentage in the higher income quintiles. This was due to the relatively greater number of

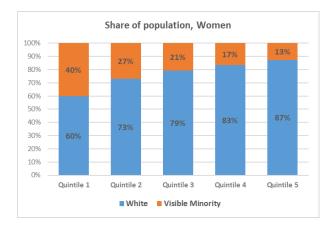


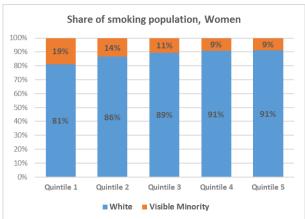
"visible minority" Canadians who live in lower income families.

In Cycle 6, in the general population, 42% of respondents in the lowest income quintile were "visible minority" Canadians, compared with 13% in the highest quintile. However, one-third of Current Smokers in the lowest household income quintile were "visible minorities" compared with 12% in the highest income quintile.









2 TECHNICAL BACKGROUND

Variables used:

- SDCGCGT cultural and racial -
- SMKDSTY smoking status
- INCDRCA income deciles
- SDCGCB13 country of birth

Related Excel files:

- Visibleminority.xlsx
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 2: Share of population, share of Current Smokers and Quit Ratio
- Visibleminority-province.xlsx
 - o Table 1: Number of people and percentage, by smoking status
 - o Table 2: Share of population, share of Current Smokers and Quit Ratio
- Visibleminority-income-origin.xlsx
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 2: Share of population, share of Current Smokers and Quit Ratio

3 SUMMARY TABLES

3.1 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS BY PROVINCE, CCHS CYCLES 1 TO 7 NUMBER OF PEOPLE

	Nfld	PEI	NS	NB	QC	ON	Man	Sask	AB	ВС	Terr.
Visible Mi	nority										
Total	50,264	6,445	81,397	33,616	894,207	3,275,967	244,179	157,449	815,817	1,313,592	54,075
Current	13,697		19,163	9,234	130,601	399,477	47,985	45,000	113,992	166,524	27,650
Former	20,929		25,876	13,375	224,711	697,372	51,859	41,732	170,302	287,276	13,055
Never	15,638		36,358	11,007	538,895	2,179,118	144,335	70,717	531,523	859,792	13,370
White											
Total	391,728	116,950	707,431	591,588	5,649,976	7,999,190	757,321	705,102	2,495,040	2,553,518	37,246
Current	77,615	22,123	150,281	122,741	1,202,454	1,600,707	129,372	140,988	534,591	421,624	7,509
Former	172,430	53,615	301,990	256,009	2,465,153	3,167,183	334,985	275,558	999,090	1,217,101	16,940
Never	141,683	41,212	255,160	212,838	1,982,369	3,231,300	292,964	288,556	961,359	914,793	12,797

Breakdown by sex, Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Visibleminority-province.xlsx"

3.2 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS BY PROVINCE, CCHS CYCLES 1 TO 7. PERCENTAGE

	Nfld	PEI	NS	NB	QC	ON	Man	Sask	AB	ВС	Terr.
Visible Min	ority										
Current	27%		24%	27%	15%	12%	20%	29%	14%	13%	51%
Former	42%		32%	40%	25%	21%	21%	27%	21%	22%	24%
Never	31%		45%	33%	60%	67%	59%	45%	65%	65%	25%
White											
Current	20%	19%	21%	21%	21%	20%	17%	20%	21%	17%	20%
Former	44%	46%	43%	43%	44%	40%	44%	39%	40%	48%	45%
Never	36%	35%	36%	36%	35%	40%	39%	41%	39%	36%	34%

 $\textit{Breakdown by sex, Coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textit{Visibleminority-province.xlsx"}}$

3.3 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS, CCHS CYCLE 1 TO 7. NUMBER OF PEOPLE

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
"White"							
Both men and women: total	21,862,204	21,664,943	21,931,837	21,641,677	22,196,621	21,984,659	21,984,659
Current Smoker	5,949,616	5,190,870	4,991,683	4,916,222	4,729,489	4,671,215	4,671,215
Daily Smoker	4,988,053	4,095,499	3,875,748	3,954,822	3,657,109	3,630,601	3,630,601
Former Smoker	8,633,980	9,189,817	9,221,107	8,905,644	9,140,550	9,155,395	9,155,395
Never Smoker	7,278,608	7,284,256	7,719,047	7,819,811	8,326,582	8,158,049	8,158,049
Women: Total	11,123,298	11,051,624	11,151,634	10,980,302	11,239,438	11,132,381	11,132,381
Current Smoker	2,843,400	2,475,720	2,389,447	2,273,363	2,171,085	2,120,917	2,120,917
Daily Smoker	2,358,816	1,956,193	1,828,473	1,825,917	1,676,684	1,645,666	1,645,666
Former Smoker	4,134,594	4,406,113	4,424,925	4,244,266	4,416,205	4,372,629	4,372,629
Never Smoker	4,145,304	4,169,791	4,337,262	4,462,673	4,652,148	4,638,835	4,638,835
Men: Total	10,738,906	10,613,319	10,780,203	10,661,375	10,957,183	10,852,278	10,852,278
Current Smoker	3,106,216	2,715,150	2,602,236	2,642,859	2,558,404	2,550,298	2,550,298
Daily Smoker	2,629,237	2,139,306	2,047,275	2,128,905	1,980,425	1,984,935	1,984,935
Former Smoker	4,499,386	4,783,704	4,796,182	4,661,378	4,724,345	4,782,766	4,782,766
Never Smoker	3,133,304	3,114,465	3,381,785	3,357,138	3,674,434	3,519,214	3,519,214
"Visible Minority"							
Both men and women: total	3,515,418	3,953,084	4,420,088	5,358,032	5,729,343	6,289,270	6,927,004
Current Smoker	626,774	705,593	756,866	928,771	959,416	1,001,994	975,345
Daily Smoker	463,248	484,920	506,662	652,061	683,861	685,105	667,802
Former Smoker	722,410	930,806	971,807	1,122,527	1,189,018	1,388,841	1,548,499
Never Smoker	2,166,234	2,316,685	2,691,415	3,306,734	3,580,909	3,898,435	4,403,160
Women: Total	1,773,779	1,966,947	2,233,909	2,733,362	2,930,377	3,189,251	3,386,444
Current Smoker	227,698	254,640	277,933	321,777	304,659	394,478	661,292
Daily Smoker	153,159	167,834	183,661	225,084	219,636	258,887	448,575
Former Smoker	252,166	334,910	348,505	420,862	448,661	514,609	991,553
Never Smoker	1,293,915	1,377,397	1,607,471	1,990,723	2,177,057	2,280,164	1,733,599
Men: Total	1,741,639	1,986,137	2,186,179	2,624,670	2,798,966	3,100,019	3,540,560
Current Smoker	399,076	450,953	478,933	606,994	654,757	607,516	314,053
Daily Smoker	310,089	317,086	323,001	426,977	464,225	426,218	219,227
Former Smoker	470,244	595,896	623,302	701,665	740,357	874,232	556,946
Never Smoker	872,319	939,288	1,083,944	1,316,011	1,403,852	1,618,271	2,669,561

Breakdown by age, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "D5-Visibleminority.xlsx"

3.4 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS, CCHS CYCLE 1 TO 7 PERCENTAGE

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
"White"							
Both Men and Women							
Current Smoker	27%	24%	23%	23%	21%	21%	21%
Daily Smoker	23%	19%	18%	18%	16%	17%	17%
Former Smoker	39%	42%	42%	41%	41%	42%	42%
Never Smoker	33%	34%	35%	36%	38%	37%	37%
Women							
Current Smoker	26%	22%	21%	21%	19%	19%	19%
Daily Smoker	21%	18%	16%	17%	15%	15%	15%
Former Smoker	37%	40%	40%	39%	39%	39%	39%
Never Smoker	37%	38%	39%	41%	41%	42%	42%
Men							
Current Smoker	29%	26%	24%	25%	23%	24%	24%
Daily Smoker	24%	20%	19%	20%	18%	18%	18%
Former Smoker	42%	45%	44%	44%	43%	44%	44%
Never Smoker	29%	29%	31%	31%	34%	32%	32%
"Visible Minority"							
Both Men and Women							
Current Smoker	18%	18%	17%	17%	17%	16%	16%
Daily Smoker	13%	12%	11%	12%	12%	11%	11%
Former Smoker	21%	24%	22%	21%	21%	22%	22%
Never Smoker	62%	59%	61%	62%	63%	62%	62%
Women							
Current Smoker	13%	13%	12%	12%	10%	12%	12%
Daily Smoker	9%	9%	8%	8%	7%	8%	8%
Former Smoker	14%	17%	16%	15%	15%	16%	16%
Never Smoker	73%	70%	72%	73%	74%	71%	71%
Men							
Current Smoker	23%	23%	22%	23%	23%	20%	20%
Daily Smoker	18%	16%	15%	16%	17%	14%	14%
Former Smoker	27%	30%	29%	27%	26%	28%	28%
Never Smoker	50%	47%	50%	50%	50%	52%	52%

 $\textit{Breakdown by age, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook} \\ \underline{\textit{``D5-Visibleminority.xlsx''}}$

3.5 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS BY COUNTRY OF BIRTH AND HOUSEHOLD INCOME QUINTILE, CCHS CYCLE 7. NUMBER OF PEOPLE

	Born in Canada	Born Elsewhere	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
"White"							
Both Men and Women	19,224,318	2,709,792	3,274,421	4,018,419	4,624,825	4,892,557	5,146,260
Current Smoker	3,960,401	438,592	973,818	896,285	885,551	847,246	795,743
Former Smoker	8,015,307	1,211,279	1,157,668	1,661,777	1,985,847	2,082,945	2,351,676
Never Smoker	7,248,610	1,059,921	1,142,935	1,460,357	1,753,427	1,962,366	1,998,841
Women	9,690,719	1,390,658	1,903,867	2,218,859	2,357,959	2,341,806	2,274,033
Current Smoker	1,804,546	171,960	519,229	448,214	382,211	340,143	286,185
Former Smoker	3,902,322	543,723	639,417	876,290	973,038	960,923	1,005,324
Never Smoker	3,983,851	674,975	745,221	894,355	1,002,710	1,040,740	982,524
Men	9,533,599	1,319,134	1,370,554	1,799,560	2,266,866	2,550,751	2,872,227
Current Smoker	2,155,855	266,632	454,589	448,071	503,340	507,103	509,558
Former Smoker	4,112,985	667,556	518,251	785,487	1,012,809	1,122,022	1,346,352
Never Smoker	3,264,759	384,946	397,714	566,002	750,717	921,626	1,016,317
"Visible Minority"							
Both Men and Women	2,259,526	4,534,764	2,285,480	1,651,369	1,241,984	943,655	744,919
Current Smoker	501,981	451,301	339,823	244,493	152,833	109,676	98,090
Former Smoker	594,656	933,994	376,775	353,316	312,956	254,019	237,821
Never Smoker	1,162,889	3,149,469	1,568,882	1,053,560	776,195	579,960	409,008
Women	1,119,889	2,351,337	1,276,134	819,360	617,449	470,120	327,745
Current Smoker	226,327	82,247	120,730	70,002	45,181	34,624	28,080
Former Smoker	295,665	255,365	142,459	109,133	117,621	112,406	68,650
Never Smoker	597,897	2,013,725	1,012,945	640,225	454,647	323,090	231,015
Men	1,139,637	2,183,427	1,009,346	832,009	624,535	473,535	417,174
Current Smoker	275,654	369,054	219,093	174,491	107,652	75,052	70,010
Former Smoker	298,991	678,629	234,316	244,183	195,335	141,613	169,171
Never Smoker	564,992	1,135,744	555,937	413,335	321,548	256,870	177,993

Breakdown by age, coefficients of variation and 95% confidence intervals are available on the Excel Workbook <u>"D5-VisibleMinority-incomeorigin.xlsx"</u>

3.6 SMOKING STATUS, "VISIBLE MINORITY" AND "WHITE" CANADIANS BY COUNTRY OF BIRTH AND HOUSEHOLD INCOME QUINTILE, CCHS CYCLE 7. PERCENTAGE

	Born in Canada	Born Elsewhere	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
"White"							
Both Men and Women							
Current Smoker	21%	16%	30%	22%	19%	17%	15%
Former Smoker	42%	45%	35%	41%	43%	43%	46%
Never Smoker	38%	39%	35%	36%	38%	40%	39%
Women							
Current Smoker	19%	12%	27%	20%	16%	15%	13%
Former Smoker	40%	39%	34%	39%	41%	41%	44%
Never Smoker	41%	49%	39%	40%	43%	44%	43%
Men							
Current Smoker	23%	20%	33%	25%	22%	20%	18%
Former Smoker	43%	51%	38%	44%	45%	44%	47%
Never Smoker	34%	29%	29%	31%	33%	36%	35%
"Visible Minority"							
Both Men and Women							
Current Smoker	22%	10%	15%	15%	12%	12%	13%
Former Smoker	26%	21%	16%	21%	25%	27%	32%
Never Smoker	51%	69%	69%	64%	62%	61%	55%
Women							
Current Smoker	20%	3%	9%	9%	7%	7%	9%
Former Smoker	26%	11%	11%	13%	19%	24%	21%
Never Smoker	53%	86%	79%	78%	74%	69%	70%
Men							
Current Smoker	24%	17%	22%	21%	17%	16%	17%
Former Smoker	26%	31%	23%	29%	31%	30%	41%
Never Smoker	50%	52%	55%	50%	51%	54%	43%

Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Visibleminority-income-origin.xlsx".

E. Family and Household

1 FAMILY CIRCUMSTANCES WERE ASSOCIATED WITH SMOKING STATUS.

1.1 MEASUREMENTS OF HOUSEHOLD AND FAMILY ISSUES

Throughout the 7 CCHS cycles, questions have been asked about the family circumstances of respondents. Among these are questions about marital status (DHHGMS), home ownership (DHH_OWN), the number of people in the household (DHHDHSZ), and the relationships among them (DHHGLVG), etc.

This review focused on data from CCHS cycle 7 only. Relative changes over the past cycles have not been explored.

1.2 Married People were less likely to be current smokers

The CCHS PUMF provides information on four categories of marital status:

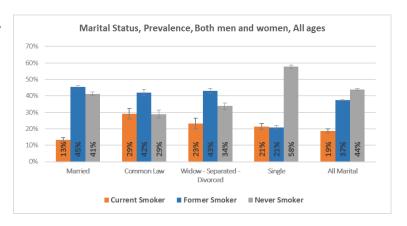
- Legally married
- Living common-law
- Formerly married (widowed, separated or divorced)
- Single, never married

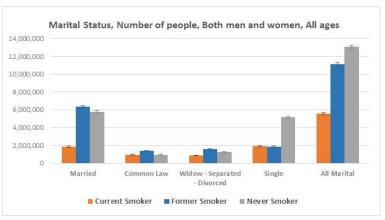
There were about 14 million Canadians who were legally married. This was roughly equal to the sum of people in all other marital status categories: those who lived common-law (3.2 million), who were widowed, separated or divorced (3.6 million) or those who were single (9 million).

Although married people made up about one-half of the population, they made up only one-third of Current Smokers. Overall, the Current Smoking prevalence for married people $(13\% \pm 0.6\%)$ was lower than the prevalence for those who lived common law $(29\% \pm 1.9\%)$, who were formerly married $(23\% \pm 1.5\%)$ or who were single $(21\% \pm 1\%)$.

This pattern is true for both men and women, and in all age ranges.

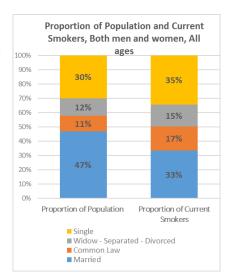
Although there were differences in the prevalence of Current Smoking between the marital status groups, there was a higher prevalence of quitting for those who were legally married than for the

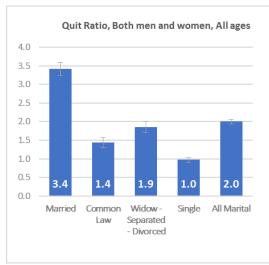




other three marital status categories. Overall, the quit ratio for married people was 3.4 ± 0.2 compared with less than 2 for any other marital status category.

There was a higher quit ratio for respondents who were married when compared with all other marital status categories. This was true for both men and women in all age groups, including those in the younger age group (20 to 29 years).





Across the age groups, single people, those

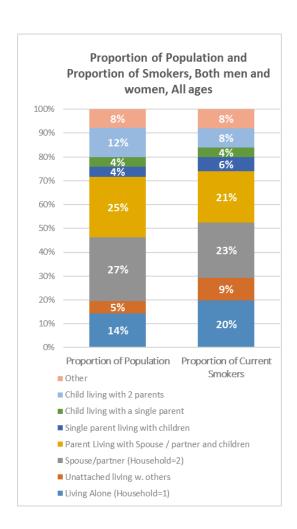
who lived common-law and those who were formerly married were over-represented in the smoking population compared to their proportion within the Canadian population.

If non-married people smoked at the same rate as married people (13%), there would be 2.1 million non-married Current Smokers in Canada, instead of 3.7 million.

1.3 HOUSEHOLD STRUCTURE IS ASSOCIATED WITH VARYING SMOKING PATTERNS.

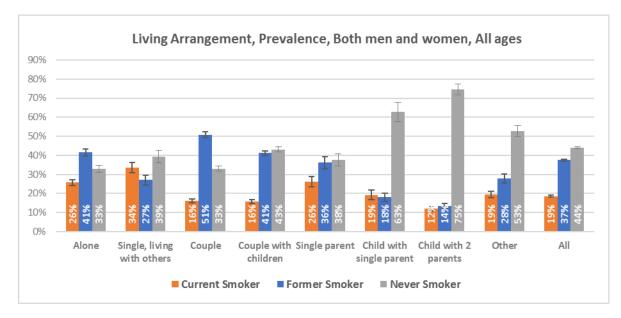
The CCHS PUMF provides information on eight categories of living arrangements:

- Unattached individual living alone
 (Selected respondent lives alone. Household size = 1)
- Unattached individual living with others
 (Selected respondent lives with others. He/she cannot
 have a marital/common law or parental relationship
 but other relationships such as siblings are allowed)
- Spouse/partner living with spouse/partner (Selected respondent lives with spouse/partner only. Household size = 2)
- Parent living with spouse/partner and children (Selected respondent lives with spouse/partner and one or more children)
- Single parent living with children (Selected respondent lives with one or more children. No other relationships are permitted)
- 6. Selected respondent is a child living with a single parent with or without sibling
- 7. Selected respondent is a child living with two parents with or without siblings
- 8. Other

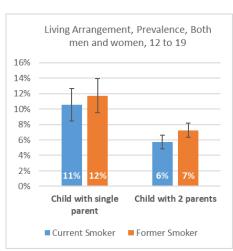


Different patterns of smoking were observed across these groups:

- Single mothers living with children had a Current Smoking prevalence that was more than twice the smoking prevalence of mothers who had partners who were living with children (26% ± 3.1% vs. 12% ± 1.1%, respectively). However, there were only one-half the number of single mothers who were Current Smokers as there were mothers who lived with partners and were Current Smokers (263,000 ± 30,000 vs. 436,000 ± 39,000, respectively).
- Smoking prevalence of single fathers ($26\% \pm 6.1\%$) was about the same as single mothers. There were about one-quarter as many single fathers who were Current Smokers ($60,400 \pm 14,124$) as there were single mothers who were Current Smokers.
- Smoking prevalence among fathers who lived with partners and children was higher than for mothers (19% ± 1.5% vs. 12% ± 1.1%). There were 745,100 (± 59,600) Current Smokers in this family circumstance.
- Those who lived alone, or who were single and lived with others had a higher prevalence of current smoking than those who lived with a family member (spouse, parent or children).



Among children aged 12 to 19, those who lived with both parents had a lower prevalence of Current Smoking than those who lived with one parent (6% ± 0.9% vs. 11% ± 2.2%, respectively).
 Nonetheless, there were about 4 times the number of children who smoked and who lived in families with two parents as those who smoked and lived with one parent (2 million ± 19,000 vs. 572,000 ± 12,000, respectively).

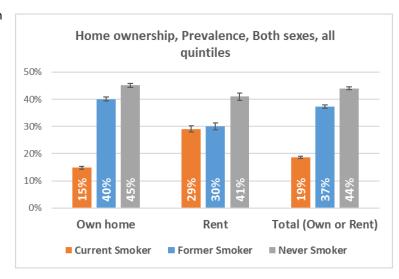


1.4 Home ownership was associated with lower rates of smoking

The CCHS PUMF provided information on whether or not the respondent's home was owned by a member of the household, or whether the house was rented.

Three quarters of Canadians lived in a home owned by at least one member of their family, but the current smoking prevalence among this group was half that of those who rented their home $(15\% \pm 0.5\% \text{ vs. } 29\% \pm 1.2\%,$ respectively).

Home owners were less likely to be smoking partly because they were more likely to have never started smoking, but

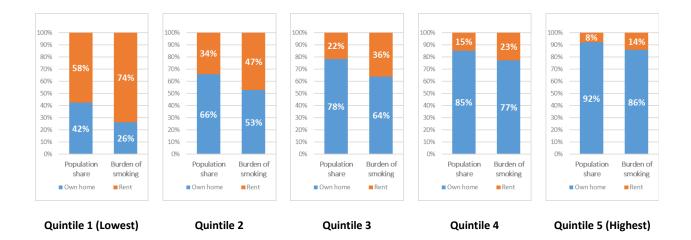


more because those who did smoke were more likely to quit than were smokers who were renters. The percentage of home owners who were Former Smokers was 40% (\pm 0.7%) compared with 30% (\pm 1.2%) for renters. This pattern of differences in the smoking prevalence between home owners and home renters was the same for both men and women. The Quit Ratio for home owners was more than twice that of renters (2.7 \pm 0.1 vs. 1.0 \pm 0.1).

Almost three times as many Canadians own their home as those who rent (21.2 million \pm 255,000 vs. 7.8 million \pm 156,000). As a result, even though smoking rates are lower among home owners, there are more Current Smokers who are homeowners than there are who are renters. Overall, there was a higher proportion of Current Smokers who were home owners than those who were home renters (58% vs. 42%, respectively).

The interrelationship between home ownership and other factors associated with smoking is likely complex. This would include, for example, income, age, as well as community level factors like population density, etc.

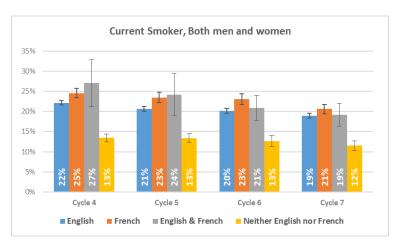
Controlling for income through the use of family income quintiles (INCDRA), showed that current smoking prevalence was higher among home renters than home owners for all family income quintiles.



1.5 THOSE WHO DID NOT SPEAK ENGLISH OR FRENCH AT HOME WERE LESS LIKELY TO BE CURRENT SMOKERS.

Since Cycle 4, the CCHS has asked respondents what languages are spoken at home. The responses were combined into four categories:

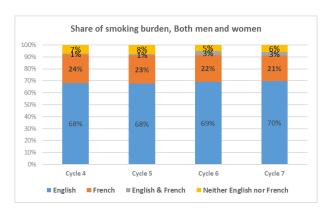
- English with or without another language other than French
- English and French, with or without another language
- French, with or without another language other than English
- A language that is neither French nor English

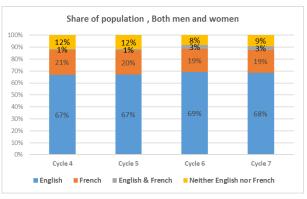


Between Cycle 4 and Cycle 7 there were small changes in the reported languages spoken in Canadians homes, but the overall pattern was that English was spoken in slightly over two-thirds of Canadian homes, French was spoken in one-fifth of homes, and in one-tenth of homes neither English nor French was spoken.

The current smoking prevalence was comparable for those living in homes where either English and French or both were spoken. Smoking prevalence was lowest in the homes where neither official language was spoken.

There was a statistically significant decrease in the current smoking prevalence by respondents in all four categories of households between Cycle 4 and Cycle 7.





2 TECHNICAL BACKGROUND

Variables used:

- DHHGMS
 - Marital status
- DHHGLVG

Living or household arrangement

- DHH_Own
 - Household ownership
- SDCGLHM
 - Languages spoken at home

Related Excel files:

- MaritalStatus.xlsx
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 1: Quit ratio
 - o Table 1: Proportion of Current Smokers
- Living Arrangement.xlsx
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 1: Quit ratio
 - o Table 1: Proportion of Current Smokers
- <u>Homeownership.xlsx</u>
 - o Table 1: Number of people and prevalence, by smoking status
 - o Table 1: Quit ratio
 - o Table 1: Proportion of Current Smokers
- <u>Languageathome.xlsx</u>
 - Table 1: Number of people and prevalence, by smoking status
 - o Table 2: Share of population and share of Current Smokers
 - o Table 3: Quit Ratio

3 SUMMARY TABLES

3.1 MARITAL STATUS, CCHS CYCLE 7

Number of people	Married	Common Law	Formerly married	Single	All Marital
Both men and women: total	13,929,479	3,221,527	3,639,666	8,936,664	29,727,336
Current Smoker	1,852,160	936,874	845,305	1,915,753	5,550,092
Former Smoker	6,327,559	1,351,973	1,564,414	1,866,174	11,110,120
Never Smoker	5,749,760	932,680	1,229,947	5,154,737	13,067,124
Men: total	7,091,729	1,650,576	1,171,218	4,766,805	14,680,328
Current Smoker	1,130,571	530,601	360,171	1,171,469	3,192,812
Former Smoker	3,645,777	663,507	560,230	1,089,631	5,959,145
Never Smoker	2,315,381	456,468	250,817	2,505,705	5,528,371
Women: Total	6,837,750	1,570,951	2,468,448	4,169,859	15,047,008
Current Smoker	721,589	406,273	485,134	744,284	2,357,280
Former Smoker	2,681,782	688,466	1,004,184	776,543	5,150,975
Never Smoker	3,434,379	476,212	979,130	2,649,032	7,538,753
Percentage	Married	Common Law	Formerly married	Single	All Marital
Both men and women	100%	100%	100%	100%	100%
Current Smoker	13%	29%	23%	21%	19%
Former Smoker	45%	42%	43%	21%	37%
Never Smoker	41%	29%	34%	58%	44%
Men	100%	100%	100%	100%	100%
Current Smoker	16%	32%	31%	25%	22%
Former Smoker	51%	40%	48%	23%	41%
Never Smoker	33%	28%	21%	53%	38%
Women	100%	100%	100%	100%	100%
Current Smoker	11%	26%	20%	18%	16%
Former Smoker	39%	44%	41%	19%	34%
Never Smoker	50%	30%	40%	64%	50%

Breakdown by age, sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "E-Maritalstatus.xlsx".

3.2 LIVING ARRANGEMENTS, CCHS CYCLE 7

				Couple		Child		
		Single,		with	Single	+single	Child with	
Number of people	Alone	with others	Couple	children	parent	parent	2 parents	Other
Men & women: total	4,248,881	1,537,128	7,936,771	7,497,062	1,236,234	1,178,628	3,697,008	2,264,551
Current Smoker	1,091,182	517,340	1,281,082	1,181,234	323,157	226,862	441,019	439,002
Former Smoker	1,762,284	415,436	4,033,901	3,084,046	447,286	212,026	500,151	631,019
Never Smoker	1,395,415	604,352	2,621,788	3,231,782	465,791	739,740	2,755,838	1,194,530
Men: total	1,940,335	870,358	4,020,620	3,852,951	230,438	638,910	1,986,858	1,085,570
Current Smoker	628,470	316,106	712,692	745,077	60,359	147,364	319,124	240,385
Former Smoker	811,647	253,410	2,271,350	1,701,864	112,293	110,772	336,224	350,659
Never Smoker	500,218	300,842	1,036,578	1,406,010	57,786	380,774	1,331,510	494,526
Women: Total	2,308,546	666,770	3,916,151	3,644,111	1,005,796	539,718	1,710,150	1,178,981
Current Smoker	462,712	201,234	568,390	436,157	262,798	79,498	121,895	198,617
Former Smoker	950,637	162,026	1,762,551	1,382,182	334,993	101,254	163,927	280,360
Never Smoker	895,197	303,510	1,585,210	1,825,772	408,005	358,966	1,424,328	700,004
				Couple		Child		
Davasatasa	Alone	Single, with others	Carrala	with children	Single	+single	Child with	Other
Percentage	Alone	with others	Couple	chilaren	parent	parent	2 parents	Other
Both men & women	100%	100%	100%	100%	100%	100%	100%	100%
Current Smoker	26%	34%	16%	16%	26%	19%	12%	19%
Former Smoker	41%	27%	51%	41%	36%	18%	14%	28%
Never Smoker	33%	39%	33%	43%	38%	63%	75%	53%
Men	100%	100%	100%	100%	100%	100%	100%	100%
Current Smoker	32%	36%	18%	19%	26%	23%	16%	22%
Former Smoker	42%	29%	56%	44%	49%	17%	17%	32%
Never Smoker	26%	35%	26%	36%	25%	60%	67%	46%
Women	100%	100%	100%	100%	100%	100%	100%	100%
Women Current Smoker	100% 20%	100% 30%	100% 15%	100% 12%	100% 26%	100% 15%	100% 7%	100% 17%

 $Breakdown\ by\ age,\ sex,\ coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "LivingArrangements.xlsx".$

3.3 HOUSEHOLD HOME OWNERSHIP BY HOUSEHOLD INCOME QUINTILE, CCHS CYCLE 7

١	Number of people	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
Home owners						
	All people	2,366,386	3,753,983	4,615,800	4,997,071	5,450,744
	Current Smoker	345,983	605,554	666,029	740,574	771,015
	Former Smoker	727,717	1,417,443	1,886,031	2,037,237	2,422,931
	Never Smoker	1,292,686	1,730,986	2,063,740	2,219,260	2,256,798
Renters						
	All people	3,225,162	1,937,112	1,269,913	862,057	465,873
	Current Smoker	976,748	543,491	375,231	219,211	127,614
	Former Smoker	818,065	605,909	421,316	306,201	179,173
	Never Smoker	1,430,349	787,712	473,366	336,645	159,086
	Percentage	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
Home owners		100%	100%	100%	100%	100%
	Current Smoker	15%	16%	14%	15%	14%
	Former Smoker	31%	38%	41%	41%	44%
	Never Smoker	55%	46%	45%	44%	41%
Renters		100%	100%	100%	100%	100%
	Current Smoker	30%	28%	30%	25%	27%
	Former Smoker	25%	31%	33%	36%	38%
	Never Smoker	44%	41%	37%	39%	34%

 $\textit{Breakdown by sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textit{Homeownership.xlsx}"}.$

3.4 LANGUAGES SPOKEN AT HOME, CCHS CYCLES 4 TO 7.

Number of people

	Cycle 4	Cycle 5	Cycle 6	Cycle 7
English (with or without other language)				
All people	18,241,745	18,806,145	19,663,880	19,896,940
Current Smoker	4,041,714	3,878,669	3,956,546	3,780,210
Former Smoker	6,970,267	7,181,947	7,378,311	7,538,429
Never Smoker	7,229,764	7,745,529	8,329,023	8,578,301
French (with or without other language)				
All people	5,743,532	5,683,442	5,496,819	5,564,235
Current Smoker	1,411,759	1,335,092	1,268,563	1,146,417
Former Smoker	2,414,338	2,370,418	2,320,520	2,361,565
Never Smoker	1,917,435	1,977,932	1,907,736	2,056,253
English and French (with or without other)				
All people	192,173	250,883	914,361	921,166
Current Smoker	51,967	60,686	191,063	176,402
Former Smoker	58,236	98,988	350,547	342,716
Never Smoker	81,970	91,209	372,751	402,048
Neither English nor French	,	,	,	•
All people	3,157,212	3,310,743	2,365,891	2,718,933
Current Smoker	423,859	443,637	298,405	312,921
Former Smoker	696,882	715,013	532,988	627,958
Never Smoker	2,036,471	2,152,093	1,534,498	1,778,054
Percentage	Cycle 4	Cycle 5	Cycle 6	Cycle 7
English (with or without other language)	100%	100%	100%	100%
Current Smoker	22%	21%	20%	19%
Former Smoker	38%	38%	38%	38%
Never Smoker	40%	41%	42%	43%
French (with or without other language)	100%	100%	100%	100%
Current Smoker	25%	23%	23%	21%
Former Smoker	42%	42%	42%	42%
Never Smoker	33%	35%	35%	37%
English and French (with or without other)	100%	100%	100%	100%
Current Smoker	27%	24%	21%	19%
Former Smoker	30%	39%	38%	37%
Never Smoker	43%	36%	41%	44%
Neither English nor French	100%	100%	100%	100%
Current Smoker	13%	13%	13%	12%
Former Smoker	22%	22%	23%	23%
Never Smoker	65%	65%	65%	65%

 $\textit{Breakdown by sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{languageathome}}. \textit{xlsx"}.$

F. Exposure to Secondhand Smoke

1 CHILDREN REPORT BEING EXPOSED TO SMOKE ON A DAILY OR NEAR DAILY BASIS MORE FREQUENTLY THAN DO ADULTS.

1.1 Measures of exposure to secondhand smoke

The CCHS has included questions of self-reported exposure to secondhand smoke by non-smokers since Cycle 1, including exposure to smoke in private vehicles (ETS_20) and in public places (ETS_20B). Questions regarding restrictions on smoking at home have varied over the survey period, but whether someone smokes inside the home on a daily or near daily basis (ETS_10) was asked in each cycle. The questions are: ¹

Including both household members and regular visitors, does anyone smoke inside your home, every day or almost every day?

(In the past month,) were you exposed to secondhand smoke, every day or almost every day, in public places (such as bars, restaurants, shopping malls, arenas, bingo halls, bowling alleys)?

In the past month, were you exposed to secondhand smoke, every day or almost every day, in a car or other private vehicle?

These survey results are routinely provided on Statistics Canada's website, with convenient breakdown by region, sex and age. (See, for example, CANSIM Table 105-0053). For that reason, they are not re-stated here.

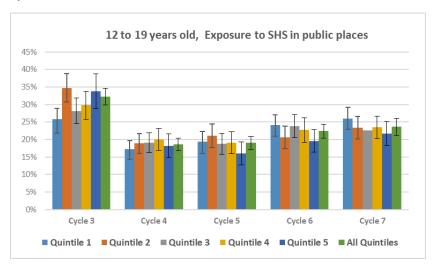
The inclusion of a consistent income variable in the CCHS since 2003 allows additional analysis of whether exposure to secondhand smoke, like smoking, is more prevalent among the economically disadvantaged, and whether changes in reported exposure have been similar for all income categories.

1.2 REPORTED EXPOSURE TO SECONDHAND SMOKE IN PUBLIC PLACES IS SIMILAR FOR CANADIAN NON-SMOKERS IN ALL INCOME QUINTILES.

In Cycle 7, 13% (± 1.2%) of Canadians reported that they were exposed to secondhand smoke on a daily or near daily basis in public places. This is a modest (but statistically significant) decline in the 10 years since Cycle 3, when 15% (± 0.6%) reported being exposed.

Roughly 3 million non-smokers report daily exposure cigarette smoke in public places $(3,143,000 \pm 125,721)$

In Cycle 7, one-quarter of young



1. We are not aware of any validation or demonstration of the reliability of this self-reported measurement.

people (aged 12 to 19) reported daily exposure ($24\% \pm 1.5\%$), a decline from Cycle 3 when 32% ($\pm 1.8\%$) reported being exposed. Roughly 680,000 teenagers ($679,600 \pm 69,100$) reported being regularly exposed in public places.

The patterns of exposure among the Income Quintiles for both young people (ages 12 to 19) and older respondents (aged 20 and older). That is, there is no great difference between the proportion of rich or poor people who reported being exposed to second hand smoke in public places.

1.3 YOUNG PEOPLE IN POOR HOUSEHOLDS ARE MORE LIKELY TO REPORT EXPOSURE TO SECONDHAND SMOKE IN PRIVATE VEHICLES OR AT HOME.

In Cycle 7, about 1 in 10 Canadian youth aged 12 to 19 years reported being exposed to secondhand smoke in vehicles or at home on a daily or near daily basis (11% \pm 0.9%).

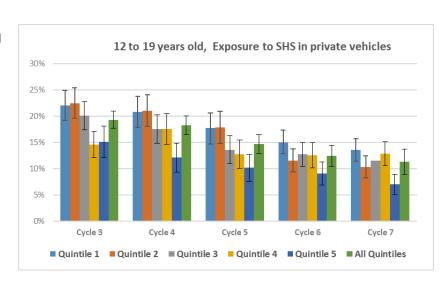
Those youth in the lowest income quintile (Quintile 1) are twice as likely to report being exposed in vehicles as those in the highest income quintile (14% \pm 2.1% vs. 7% \pm 1.9%). The difference is similar with respect to exposure at home (17% \pm 2.3% vs. 6% \pm 1.7%).

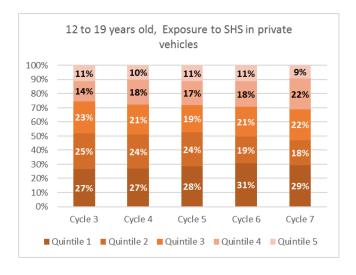
In Cycle 7, 326,900 (± 25,000)

young Canadians aged 12 to 19 reported being exposed to secondhand smoke in private vehicles on a daily basis and 355,324 (± 27,715) reported exposure at home.

Since there are proportionately more young people in low-income than high-income households, the burden of exposure to secondhand smoke falls even more heavily on this group. There are 3 times as many non-smoking young people who reported exposure in cars in the lowest income quintile as in the highest, $(96,100 \pm 15,000 \text{ vs. } 30,500 \pm 8,500)$.

Expressed as a proportion of all young people exposed, the poorest quintile make up about 30% of those exposed, compared with 9% in the richest quintile.

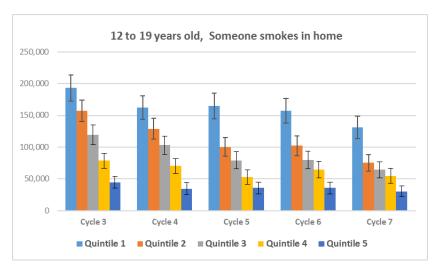


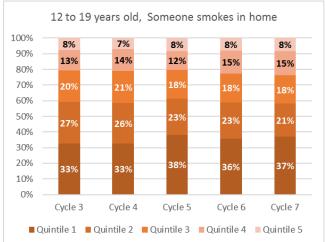


1.4 YOUNG PEOPLE IN POOR HOUSEHOLDS ARE MORE LIKELY THAN THOSE IN WEALTHIER HOMES TO LIVE WHERE SOMEONE SMOKES REGULARLY IN THE HOME.

One in 10 (11% \pm 0.9%) young Canadian non-smokers (aged 12 to 19) reported living in a home where someone smokes regularly. This is somewhat higher than the proportion non-smoking Canadians of all ages (8% \pm 0.3%).

Of those 355,300 (± 27,700) young people, more than a third live in the lowest income households.





2 TECHNICAL BACKGROUND

Variables used:

- ETS_10.
 Someone smokes inside home
- ETS_20
 Exposed to secondhand smoke in private vehicle
- ETS_20B
 Exposed to secondhand smoke in public places

Related Excel files:

- Secondhandsmoke.xlsx
 - o Table 1: Number of people and prevalence of exposure by income quintile

3 SUMMARY TABLES

3.1 SOMEONE SMOKES INSIDE THE HOME EVERY DAY OR NEARLY EVERY DAY, CCHS CYCLE 3 TO 7 NUMBER OF PEOPLE AND PREVALENCE

	Cycle3	Cycle 4	Cycle 5	Cycle 6	Cycle 7	Cycle3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
		Nun	nber of Non-Smo	kers			Percent	tage of Non	Smokers	
Quintile 1										
All ages										
Total	4,263,536	4,307,790	4,298,880	5,322,006	5,445,877	100%	100%	100%	100%	100%
Not Exposed	3,415,053	3,537,388	3,619,685	4,651,439	4,843,900	80%	82%	84%	87%	89%
Exposed	848,483	770,402	679,195	670,567	601,977	20%	18%	16%	13%	11%
Aged 12-19										
Total	600,889	605,833	579,101	840,801	789,994	100%	100%	100%	100%	100%
Not Exposed	407,776	443,725	414,495	683,462	658,951	68%	73%	72%	81%	83%
Exposed	193,113	162,108	164,606	157,339	131,043	32%	27%	28%	19%	17%
Quintile 2										
All ages						1				
Total	4,353,658	4,483,180	4,488,971	5,610,193	5,668,652	100%	100%	100%	100%	100%
Not Exposed	3,562,958	3,817,545	3,924,451	4,971,621	5,195,019	82%	85%	87%	89%	92%
Exposed	790,700	665,635	564,520	638,572	473,633	18%	15%	13%	11%	8%
Aged 12-19										
Total	543,571	532,674	482,573	651,698	605,932	100%	100%	100%	100%	100%
Not Exposed	386,160	403,709	382,398	549,467	530,774	71%	76%	79%	84%	88%
Exposed	157,411	128,965	100,175	102,231	75,158	29%	24%	21%	16%	12%
Quintile 3										
All ages										
Total	4,475,874	4,548,199	4,524,813	5,678,845	5,794,399	100%	100%	100%	100%	100%
Not Exposed	3,780,463	3,939,572	4,009,610	5,155,938	5,370,872	84%	87%	89%	91%	93%
Exposed	695,411	608,627	515,203	522,907	423,527	16%	13%	11%	9%	7%
·		•	•	•	•					
Aged 12-19						1 .				
Total	540,889	544,257	500,583	660,963	665,137	100%	100%	100%	100%	100%
Not Exposed	421,623	441,374	421,381	581,151	600,851	78%	81%	84%	88%	90%
Exposed	119,266	102,883	79,202	79,812	64,286	22%	19%	16%	12%	10%
Quintile 4										
All ages										
Total	4,482,659	4,651,512	4,572,683	5,593,039	5,792,955	100%	100%	100%	100%	100%
Not Exposed	3,888,121	4,110,771	4,154,709	5,130,258	5,420,252	87%	88%	91%	92%	94%
Exposed	594,538	540,741	417,974	462,781	372,703	13%	12%	9%	8%	6%
Aged 12-19										
Total	473,582	461,495	467,164	573,192	590,747	100%	100%	100%	100%	100%
Not Exposed	394,962	391,422	414,401	508,637	535,989	83%	85%	89%	89%	91%
Exposed	78,620	70,073	52,763	64,555	54,758	17%	15%	11%	11%	9%
Ovintile F										
Quintile 5										
All ages Total	4 202 701	4,514,981	4 EQC 072	E 722 6EE	5,853,884	100%	100%	100%	100%	100%
	4,392,791		4,586,973	5,732,655		1				
Not Exposed Exposed	3,920,954 471,837	4,135,825 379,156	4,264,278 322,695	5,380,798 351,857	5,569,186 284,698	89% 11%	92% 8%	93% 7%	94% 6%	95% 5%
·	,	•	•	•	,					
Aged 12-19										
_						1				
Total	354,297	366,168	369,826	490,261	481,466	100%	100%	100%	100%	100%
_	354,297 309,596 44,701	366,168 331,553 34,615	369,826 334,223 35,603	490,261 454,509 35,752	481,466 451,387 30,079	100% 87% 13%	100% 91% 9%	100% 90% 10%	100% 93% 7%	100% 94% 6%

Information on exposure in public places and in vehicles, as well as coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Secondhandsmoke.xlsx".

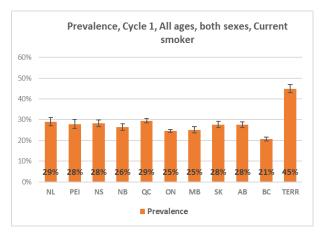
G. Geography

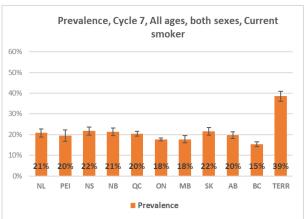
1 REDUCED SMOKING RATES FOR ALL PROVINCES

1.1 AN ACROSS THE BOARD REDUCTION IN CIGARETTE SMOKING

In the period between Cycle 1 and Cycle 7, Current Smoking prevalence declined in all provinces as did the absolute number of Current Smokers.

There was also an increase for all provinces in the percentage of people who had never smoked cigarettes, as well as an increase in the Quit Ratio (the number of Former Smokers in comparison with the number of remaining Current Smokers).

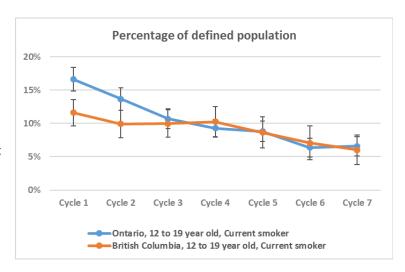




1.2 EXISTING INTER-PROVINCIAL DIFFERENCES IN SMOKING RATES CONTINUE, BUT ARE (WITH ONE EXCEPTION) NOT INCREASING

British Columbia had the lowest Current Smoking prevalence throughout all CCHS cycles (21% \pm 1% in Cycle 1 and 15% \pm 1.2% in Cycle 7). Some other provinces are catching up:

- In Cycle 7, the current smoking prevalence for Ontario and Manitoba decreased to a level equivalent to that of British Columbia in Cycle 4 (18%).
- Between Cycle 1 and Cycle 7, the current smoking prevalence for Quebec decreased by 9 percentage points, representing a 30% drop (from 29% ± 1% in Cycle 1 to 20% ± 1.1%).



This compared with a 5.4% percentage point decline in British Columbia, representing a 26% drop.

 Smoking among teenagers (aged 12 to 19) for Cycle7 was now as low in Ontario and Manitoba as it was in British Columbia (7% ± 1.4%, 6% ± 3.1% and 6% ± 2.2%, respectively), although it was higher in Ontario and Manitoba in earlier cycles.

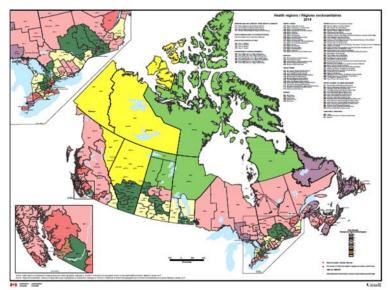
The area in Canada with the highest current smoking rate was consistently the northern territories. In addition, the northern territories also had the smallest decline in smoking prevalence (from $45\% \pm 2\%$ in Cycle 1 to $39\% \pm 2.4\%$ in Cycle 7).

1.3 Intra-provincial gaps continue

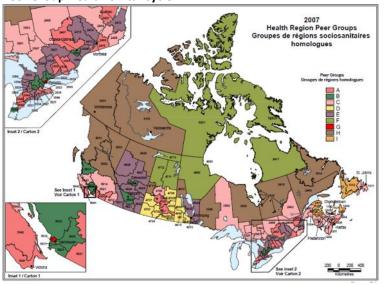
To assist analysis of community health, Statistics Canada has established "Peer Groups" for administrative health unit levels. These match communities across Canada along a range of criteria – employment, density of dwellings, aboriginal and visible minority populations. ¹ The criteria for matching communities are presented in the following section (Technical Background).

The grouping of "peer" health units have changed frequently over the 7 cycles of the CCHS, as illustrated in the 2014 (above) and 2007 (below) groupings shown on the right. This, in addition to changes in the boundaries of some health units in this period, makes it difficult to compare the progress of different types of communities over the CCHS survey cycles.

In Cycle 7, the communities where the difference in Current Smoking rates (for both men and women) was significant at 95% Confidence Interval and higher than the national average of 19% (\pm 0.4%) were those in Peer Group D (22% \pm 2.1%), Peer Group E (23% \pm 3.8%) and Peer Group I (28% (\pm 4.5%). These 3 Peer Groups represented 11.4% of the total population. These communities were rural, "white" and sometimes remote. (Peer Group F would likely fall in this group, but its population of only 26,000



Peer Group Health Units: Cycle 7

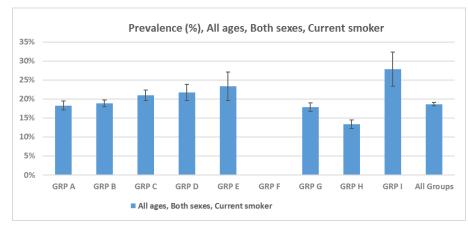


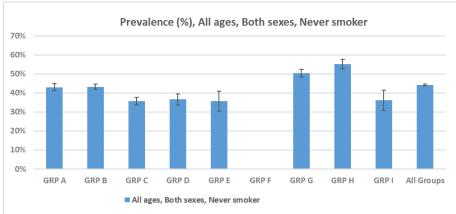
Peer Group Health Units Cycle 4

was too small to provide a sufficient sample of smokers.) These communities also had lower rates of never smoking.

¹ Further information is available through Statistics Canada at: http://www.statcan.gc.ca/pub/82-402-x/2015002/t/tbl09-eng.htm

Those communities with smoking rates for both men and women which were lower than the national average (and never smoking rates which were higher) were those in Group H. These communities, representing 11.5% of the population, are high-density urban areas with a very high percentage of visible minority populations and very few indigenous Canadians.²





2 TECHNICAL BACKGROUND

Variables used:

- GEODPMF Health Region
- GEOGPRV
 Province of residence of respondent

Related Excel files:

- Province.xlsx
 - Table 1. Number of people and prevalence, by smoking status
 - o Table 2. Share of population and share of Current Smokers
 - o Table 3. Quit ratio
- PeerGroup.xlsx
 - o Table 1: Number of people and prevalence, by smoking status

² See section on Visible Minority for further exploration of smoking behaviour among white and minority populations.

Principal Characteristics of Peer Groups³

Peer group	# of health regions	% of Population	Principal characteristics
A	13	15.7	Population centres with high population density and rural mix from coast to coast High percentage of visible minority population Low percentage of Aboriginal population Average employment rate
В	19	31.2	Mainly population centres with moderate population density Average percentage of visible minority population High employment rate
С	31	14.5	Population centres and rural mix from coast to coast Average percentage of visible minority population High percentage of Aboriginal population
D	18	6.5	Mainly rural regions in Ontario and the Prairies Low percentage of visible minority population Average percentage of Aboriginal population
Е	12	3.2	Mainly rural Eastern regions Low percentage of visible minority population Low employment rate
F	5	0.5	Northern and remote regions Very low percentage of visible minority population Very high Aboriginal population
G	3	15.3	Largest population centres with an average population density of 4211 people per square kilometre High percentage of visible minority population Very low Aboriginal population
Н	5	11.5	Mainly population centres in Ontario and British Columbia with high Population density Very high percentage of visible minority population Low Aboriginal population
I	4	1.7	Mainly rural and remote regions in the Western provinces and the Territories Average percentage of visible minority population High percentage of Aboriginal population High employment rate

³ This chart is reprinted from Statistics Canada Health Regions: Boundaries and Correspondence with Census Geography (82-402-X), December 2016

3 SUMMARY TABLES

3.1 NUMBER OF MEN AND WOMEN BY PROVINCE AND SMOKING STATUS, CCHS CYCLES 1 TO 7.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Newfoundland	,		,	,	,	.,	,
Both men and women: total	460,874	458,478	448,287	441,726	444,414	443,709	451,145
Current Smoker	133,698	110,559	103,663	110,152	102,717	103,058	94,052
Daily Smoker	114,906	91,640	84,994	87,727	82,804	84,604	73,113
Former Smoker	176,757	199,806	200,776	188,259	190,946	189,787	196,189
Never Smoker	150,419	148,113	143,848	143,315	150,751	150,864	160,904
Prince Edward Island							
Both men and women: total	116,207	119,140	117,316	119,219	121,488	124,569	124,909
Current Smoker	32,410	28,195	26,032	25,328	26,631	26,792	24,364
Daily Smoker	28,496	24,240	20,690	20,314	20,625	22,844	20,874
Former Smoker	44,031	49,043	49,973	47,464	48,562	52,336	56,364
Never Smoker	39,766	41,902	41,311	46,427	46,295	45,441	44,181
Nova Scotia	•		•			•	
Both men and women: total	787,091	795,493	794,271	798,550	803,915	807,598	807,172
Current Smoker	222,300	187,392	180,175	191,524	186,366	183,999	175,142
Daily Smoker	184,684	157,471	143,801	154,640	151,648	146,305	135,023
Former Smoker	310,557	344,191	335,966	329,149	328,770	335,468	335,244
Never Smoker	254,234	263,910	278,130	277,877	288,779	288,131	296,786
New Brunswick							
Both men and women: total	633,159	635,907	637,048	640,712	640,862	642,240	639,252
Current Smoker	167,003	161,473	143,543	149,629	142,277	145,670	136,110
Daily Smoker	147,605	137,745	115,781	127,817	116,434	116,496	107,865
Former Smoker	250,544	261,449	264,290	254,036	261,989	276,531	272,793
Never Smoker	215,612	212,985	229,215	237,047	236,596	220,039	230,349
Quebec	•	,	•	•	•	•	,
Both men and women: total	6,206,816	6,316,650	6,458,299	6,580,759	6,685,177	6,797,271	6,935,714
Current Smoker	1,830,864	1,638,763	1,575,302	1,593,124	1,531,759	1,523,462	1,421,484
Daily Smoker	1,547,900	1,310,323	1,207,633	1,265,590	1,155,434	1,177,030	1,056,581
Former Smoker	2,338,475	2,693,083	2,675,366	2,639,709	2,710,984	2,776,065	2,853,103
Never Smoker	2,037,477	1,984,804	2,207,631	2,347,926	2,442,434	2,497,744	2,661,127
Ontario							
Both men and women: total	9,855,825	10,206,929	10,460,908	10,870,799	11,129,612	11,326,602	11,557,752
Current Smoker	2,417,474	2,271,302	2,186,991	2,206,483	2,107,863	2,172,049	2,045,993
Daily Smoker	1,984,527	1,716,101	1,656,554	1,725,937	1,619,073	1,630,364	1,534,791
Former Smoker	3,469,069	3,768,347	3,824,829	3,780,386	3,800,657	3,851,698	3,968,151
Never Smoker	3,969,282	4,167,280	4,449,088	4,883,930	5,221,092	5,302,855	5,543,608
Manitoba							
Both men and women: total	903,253	908,579	932,731	946,798	972,944	997,247	1,014,791
Current Smoker	226,687	207,181	190,762	221,047	190,649	199,571	180,068
Daily Smoker	182,333	163,868	149,917	176,395	140,258	148,057	134,122
Former Smoker	336,854	367,139	358,067	347,892	385,323	375,975	392,188
Never Smoker	339,712	334,259	383,902	377,859	396,972	421,701	442,535
Saskatchewan							
Both men and women: total	804,329	795,354	783,769	793,956	819,146	838,503	872,575
Current Smoker	222,536	190,530	187,523	203,679	181,729	183,312	188,663
Daily Smoker	187,697	148,744	146,923	165,923	146,589	141,001	142,046
Former Smoker	311,841	316,019	308,909	293,961	314,814	316,507	321,293
Never Smoker	269,952	288,805	287,337	296,316	322,603	338,684	362,619
Alberta	•	,	•	•	•	•	,
Both men and women: total	2,471,096	2,582,409	2,676,357	2,885,313	3,032,417	3,154,036	3,346,998
Current Smoker	683,918	595,073	610,996	644,532	696,982	682,027	657,781
Daily Smoker	568,219	456,278	474,526	505,326	523,059	524,626	494,885
Former Smoker	872,800	1,000,199	977,938	1,027,839	1,045,044	1,099,708	1,176,668
Never Smoker	914,378	987,137	1,087,423	1,212,942	1,290,391	1,372,301	1,512,549
TTCTCT SITIONET	321,370	337,137	2,007,120	-,,	_,	_,3,301	_,5,5 13

Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
3,401,209	3,506,207	3,590,632	3,735,667	3,856,174	3,921,722	3,958,229
701,830	658,729	639,351	680,518	644,992	593,226	604,059
554,722	492,926	454,390	512,122	474,468	434,406	419,163
1,324,862	1,390,285	1,401,089	1,419,915	1,450,745	1,542,919	1,536,055
1,374,517	1,457,193	1,550,192	1,635,234	1,760,437	1,785,577	1,818,115
76,329	71,752	76,695	76,237	79,667	82,395	92,459
34,303	27,839	28,648	29,413	31,867	31,064	35,680
27,932	23,228	23,363	24,318	26,486	25,554	29,221
24,367	23,964	24,870	22,926	22,671	25,638	30,448
17,659	19,949	23,177	23,898	25,129	25,693	26,331
	3,401,209 701,830 554,722 1,324,862 1,374,517 76,329 34,303 27,932 24,367	3,401,209 3,506,207 701,830 658,729 554,722 492,926 1,324,862 1,390,285 1,374,517 1,457,193 76,329 71,752 34,303 27,839 27,932 23,228 24,367 23,964	3,401,209 3,506,207 3,590,632 701,830 658,729 639,351 554,722 492,926 454,390 1,324,862 1,390,285 1,401,089 1,374,517 1,457,193 1,550,192 76,329 71,752 76,695 34,303 27,839 28,648 27,932 23,228 23,363 24,367 23,964 24,870	3,401,209 3,506,207 3,590,632 3,735,667 701,830 658,729 639,351 680,518 554,722 492,926 454,390 512,122 1,324,862 1,390,285 1,401,089 1,419,915 1,374,517 1,457,193 1,550,192 1,635,234 76,329 71,752 76,695 76,237 34,303 27,839 28,648 29,413 27,932 23,228 23,363 24,318 24,367 23,964 24,870 22,926	3,401,209 3,506,207 3,590,632 3,735,667 3,856,174 701,830 658,729 639,351 680,518 644,992 554,722 492,926 454,390 512,122 474,468 1,324,862 1,390,285 1,401,089 1,419,915 1,450,745 1,374,517 1,457,193 1,550,192 1,635,234 1,760,437 76,329 71,752 76,695 76,237 79,667 34,303 27,839 28,648 29,413 31,867 27,932 23,228 23,363 24,318 26,486 24,367 23,964 24,870 22,926 22,671	3,401,209 3,506,207 3,590,632 3,735,667 3,856,174 3,921,722 701,830 658,729 639,351 680,518 644,992 593,226 554,722 492,926 454,390 512,122 474,468 434,406 1,324,862 1,390,285 1,401,089 1,419,915 1,450,745 1,542,919 1,374,517 1,457,193 1,550,192 1,635,234 1,760,437 1,785,577 76,329 71,752 76,695 76,237 79,667 82,395 34,303 27,839 28,648 29,413 31,867 31,064 27,932 23,228 23,363 24,318 26,486 25,554 24,367 23,964 24,870 22,926 22,671 25,638

 $\textit{Breakdown by age, sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{Provinces.xlsx}"}.$

3.2 Percentage of Men and Women by province and smoking status, CCHS Cycles 1 to 7.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Newfoundland							
Both men and women: total							
Current Smoker	29%	24%	23%	25%	23%	23%	21%
Daily Smoker	25%	20%	19%	20%	19%	19%	16%
Former Smoker	38%	44%	45%	43%	43%	43%	43%
Never Smoker	33%	32%	32%	32%	34%	34%	36%
Prince Edward Island							
Both men and women: total							
Current Smoker	28%	24%	22%	21%	22%	22%	20%
Daily Smoker	25%	20%	18%	17%	17%	18%	17%
Former Smoker	38%	41%	43%	40%	40%	42%	45%
Never Smoker	34%	35%	35%	39%	38%	36%	35%
Nova Scotia							
Both men and women: total							
Current Smoker	28%	24%	23%	24%	23%	23%	22%
Daily Smoker	23%	20%	18%	19%	19%	18%	17%
Former Smoker	39%	43%	42%	41%	41%	42%	42%
Never Smoker	32%	33%	35%	35%	36%	36%	37%
New Brunswick							
Both men and women: total							
Current Smoker	26%	25%	23%	23%	22%	23%	21%
Daily Smoker	23%	22%	18%	20%	18%	18%	17%
Former Smoker	40%	41%	41%	40%	41%	43%	43%
Never Smoker	34%	33%	36%	37%	37%	34%	36%
Quebec							
Both men and women: total							
Current Smoker	29%	26%	24%	24%	23%	22%	20%
Daily Smoker	25%	21%	19%	19%	17%	17%	15%
Former Smoker	38%	43%	41%	40%	41%	41%	41%
Never Smoker	33%	31%	34%	36%	37%	37%	38%
Ontario							
Both men and women: total							
Current Smoker	25%	22%	21%	20%	19%	19%	18%
Daily Smoker	20%	17%	16%	16%	15%	14%	13%
Former Smoker	35%	37%	37%	35%	34%	34%	34%
Never Smoker	40%	41%	43%	45%	47%	47%	48%
Manitoba							
Both men and women: total							
Current Smoker	25%	23%	20%	23%	20%	20%	18%
Daily Smoker	20%	18%	16%	19%	14%	15%	13%
Former Smoker	37%	40%	38%	37%	40%	38%	39%
Never Smoker	38%	37%	41%	40%	41%	42%	44%

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Saskatchewan							
Both men and women: total							
Current Smoker	28%	24%	24%	26%	22%	22%	22%
Daily Smoker	23%	19%	19%	21%	18%	17%	16%
Former Smoker	39%	40%	39%	37%	38%	38%	37%
Never Smoker	34%	36%	37%	37%	39%	40%	42%
Alberta							
Both men and women: total							
Current Smoker	13%	12%	12%	11%	12%	11%	11%
Daily Smoker	10%	10%	11%	10%	10%	10%	9%
Former Smoker	53%	55%	53%	54%	54%	54%	54%
Never Smoker	34%	34%	35%	34%	35%	35%	35%
British Columbia							
Both men and women: total							
Current Smoker	21%	19%	18%	18%	17%	15%	15%
Daily Smoker	16%	14%	13%	14%	12%	11%	11%
Former Smoker	39%	40%	39%	38%	38%	39%	39%
Never Smoker	40%	42%	43%	44%	46%	46%	46%
Territories							
Both men and women: total							
Current Smoker	45%	39%	37%	39%	40%	38%	39%
Daily Smoker	37%	32%	30%	32%	33%	31%	32%
Former Smoker	32%	33%	32%	30%	28%	31%	33%
Never Smoker	23%	28%	30%	31%	32%	31%	28%

 $\textit{Breakdown by age, sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{Provinces.xlsx}"}.$

3.3 NUMBER AND PERCENTAGE OF PEOPLE, CCHS, CYCLE 7

	Peer	Peer	Peer	Peer	Peer	Peer	Peer	Peer	Peer
	Group A	Group B	Group C	Group D	Group E	Group F	Group G	Group H	Group I
Number of people									
Both men and women:	4,305,924	9,129,290	3,879,194	1,807,490	532,729	26,059	4,697,168	3,530,277	502,881
total									
Current Smoker	787,798	1,717,039	812,430	393,062	124,524		839,179	469,888	140,230
Former Smoker	1,662,670	3,457,624	1,681,819	752,585	218,405		1,491,994	1,112,575	180,905
Never Smoker	1,855,456	3,954,627	1,384,945	661,843	189,800		2,365,995	1,947,814	181,746
Percentage of populati	on								
Current Smoker	18%	19%	21%	22%	23%		18%	13%	28%
Former Smoker	39%	38%	43%	42%	41%		32%	32%	36%
Never Smoker	43%	43%	36%	37%	36%		50%	55%	36%

 $\textit{Breakdown by age, sex, coefficients of variation and 95\% confidence intervals are available on the \textit{Excel Workbook "} \underline{\textbf{Peergroup.xlsx"}}.$

H1: Cigarettes and Cannabis

1 CANNABIS USERS ARE MORE LIKELY TO SMOKE CIGARETTES

Illicit drug use was not part of the core CCHS content, although it was included as optional content and selected by one or more provinces on each cycle subsequent to Cycle 2. The 2012 CCHS Mental Health provided national estimates of selected mental disorders in addition to drug use, abuse and dependence. Data from this survey is the basis of the information reported in this section.

The CCHS 2012 Mental Health Survey asked the standard questions about cigarette smoking. It also asked respondents about illicit drug use, including a series of questions regarding the use of "marijuana or hashish". The questions are listed in the Technical Background section below. The responses to these questions were transformed into derived variables about "cannabis" use.

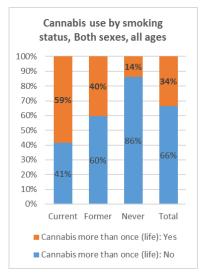
1.1 CANNABIS USE AND CURRENT SMOKING

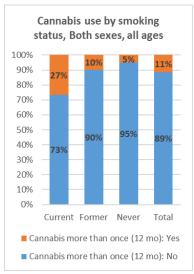
The CCHS 2012 survey on mental health asked survey respondents whether they had ever used cannabis in their lifetime, whether they had used it in the past 12 months and whether such use was on more than 1 occasion.

- One third of Canadians aged 15 years or older $(9,466,000 \pm 302,900)$ had used cannabis two or more times in their lifetime, and one tenth $(3,237,000 \pm 200,700)$ had done so in the past 12 months.
- One quarter (27% ± 2%) of Canadians aged 15 to 24 reported past year use, compared with 15% (± 2%) of those aged 25 to 44.

Current Smokers are more likely to report cannabis use than are Never Smokers.

- The prevalence of lifetime cannabis use was higher among Current Smokers at 59% (± 4%), compared with 14% (± 1%) of Never-Smokers. Past year use of cannabis among Current Smokers was over 5 times that of Never Smokers:27% (± 2%) and 5% (± 1%), respectively.
- Among younger Canadians, aged 15 to 24, the pattern is equally pronounced. Six in ten (62% ± 8%) Current Smokers have used cannabis in the past year, compared with one in ten Never Smokers (11% ± 2%).



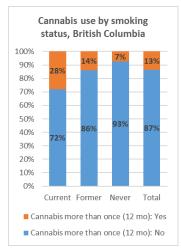


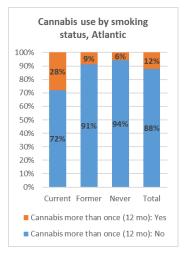
1 In Cycle 2, this section was asked in Ontario, Saskatchewan and British Columbia; in Cycle 3 it was asked in New Brunswick; in Cycle 4 it was asked in Nova Scotia and New Brunswick, in Cycle 5 it was asked in New Brunswick, Ontario, Saskatchewan and Nunavut; in Cycle 6 in Ontario, Saskatchewan and Nunavut and in Cycle 7 in Nunavut, Newfoundland and British Columbia.

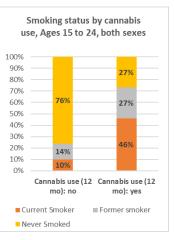
 Each region displayed a similar pattern, with approximately one-fourth of Current Smokers, one-twentieth of Never Smokers and slightly more than one-tenth of the total surveyed population reporting having used cannabis use on more than one occasion in the past year.

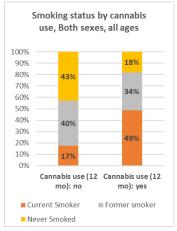
Cannabis users are more likely to be current cigarette smokers.

- Those who report having used cannabis on two or more occasions in the past year are more than twice as likely to report being a Current Smoker. One-half (49% ± 4%) of those who used cannabis on two or more occasions in the past year were Current Smokers, compared with 17% (± 1%) of those who had used cannabis less frequently or not at all.
- For young Canadians aged 15 to 24, the pattern is more pronounced: Almost one-half of those who have used cannabis on two or more occasions (46% ± 6%) in the past year were Current Smokers, compared with only 1 in 10, of those who have not (10% ± 2%).
- Those aged 15 to 24 who have not used cannabis in the past year are three times more likely to report being a Never Smoker. (76% ± 4% vs. 27% ± 5%).









1.2 CANNABIS DEPENDENCE OR ABUSE AND CURRENT SMOKING

The CCHS 2012 survey on mental health included 2 derived variables in the PUMF based on the WHO-CIDI criteria for cannabis abuse or dependence. These identified whether or not the respondents met the criteria for dependence or abuse in their lifetime (SUDDLC) or in the past year (SUDDYC).

In this survey, Statistics Canada adopts the following definitions:

Abuse is characterized by a pattern of recurrent use where at least one of the following occurs: failure to fulfill major roles at work, school or home, use in physically hazardous situations, recurrent alcohol or drug related problems, and continued use despite social or interpersonal problems caused or intensified by alcohol or drugs.

Dependence is when at least three of the following occur in the same 12 month period: increased tolerance, withdrawal, increased consumption, unsuccessful efforts to quit, a lot of time lost recovering or using, reduced activity, and continued use despite persistent physical or psychological problems caused or intensified by alcohol or drugs. ²

Almost 2 million Canadians (1,900,000 \pm 172,000) were identified as having met the lifetime criteria for cannabis abuse or dependence. This represents about 7% of the Canadian population aged 15 years and older, and about

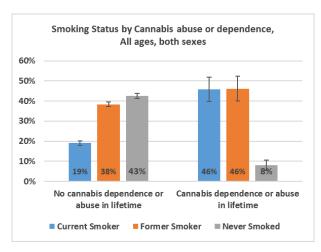
2 These definitions and more information on mental and substance use disorders as measured by the CCHS can be found at: Statistics Canada. Health at a Glance. Mental and substance use disorders in Canada. Statistics Canada Catalogue No. 82-624-X.

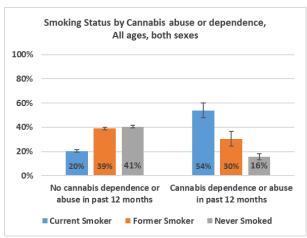
20% of the 9.5 million Canadians $(9,466,000 \pm 302,900)$ who had used cannabis on more than one occasion in their lifetime.

More men than women were found to have met the lifetime criteria for cannabis abuse or dependence: 10% (\pm 1.1%) of men vs. 4% (\pm 0.6%) of women. There were 1,363,200 (\pm 155,400) men and 550,100 (\pm 90,200) women so identified

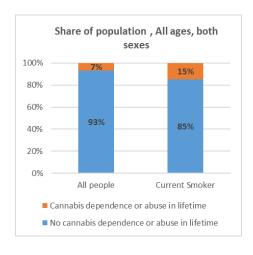
In the 12 months prior to the survey, 368,700 (\pm 78,000) Canadians met the criteria for cannabis abuse or dependence. This is 1% (\pm 0.3%) of the population, but slightly more than 10% of the 3.2 million Canadians (3,268,800 \pm 200,600) who reported using Cannabis on two or more occasions in the past year.

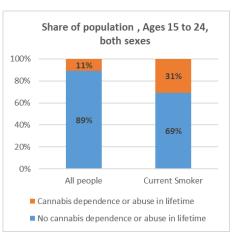
- Current cigarette smoking prevalence was twice as high for those who met the criteria for cannabis abuse or dependence in their lifetime when compared with those who did not. Almost half ($46\% \pm 6.1\%$) of people with a lifetime experience of cannabis dependence were current smokers, whereas smoking prevalence among those who did not meet the criteria was ($19 \pm 1\%$).
- A similar pattern was found with respect to those who met the criteria for cannabis abuse or dependence in the past year: Current Smoking prevalence was 54% (± 16.3%), compared with 20% (± 0.9%) among those who did not meet the criteria.





- Those who met the criteria for cannabis abuse/dependence were much less likely to be never smokers: among this population, only 8% (± 2.4%) were never smokers, compared with 43% (± 1.2%) among those who had never met the criteria for cannabis dependence or abuse in their lifetime. This pattern existed for both men and women, and in all ages groups reviewed.
- Most Current cigarette smokers (85%) have not experienced cannabis abuse or dependence.
 This proportion is lower for those smokers aged 15 to 24 (69%) than for those aged 25 to 44 (82%), or 45 to 64 (9%).





2 TECHNICAL BACKGROUND

Survey questions:

On the 2012 Mental Health Survey, questions regarding cannabis use were phrased as follows:

```
SUD_Q04A. Have you ever used or tried marijuana or hashish?
(1. Yes, just once, 2. Yes, more than once. 3. No).
SUD Q04B. Have you used it in the past 12 months.
(1. Yes., 2. No).
SUD Q04C. How often
(1. Less than once a month. 2. 1 to 3 times a month. 3. Once a week; 4. More than once a week. 5. Every
SUD Q04D. Did you ever have a period where you used marijuana or hashish more than you did in the past
12 months?
(1. Yes. 2. No.)
SUD Q04E. Thinking of the year when you used marijuana or hashish most, how often did you use it?
(1. Less than once a month. 2. 1 to 3 times a month. 3. Once a week; 4. More than once a week. 5. Every
day).
SUD Q04F. In your lifetime how many time have you used marijuana or hashish
(Min: 2, Max: 995)
SUD Q04G (If DK to SUD Q04F), Have you used marijuana or hashish more than 50 times in your lifetime?
(1. Yes. 2. No.)
```

The PUMF provides data from these answers in derived variables only. The following age groupings were provided and used in this analysis: 15 to 24 years old, 25 to 44 years old, 45 to 64 years old, over 65 years of age.

Variables used:

- SUDDLC Cannabis abuse or dependence Lifetime Algorithm
- SUDDYC Cannabis abuse or dependence Past 12 month algorithm
- SUDFLCM Lifetime use of cannabis (excluding 1 time use)
- SUDFLCM Past year use of cannabis (excluding 1 time use)

Related Excel files:

- Smoking and Cannabis Abuse or Dependence. (H1-cannabis-abuse.xlsx)
- Smoking Status and Cannabis Use. (H1-cannabis-use.xlsx)

3 SUMMARY TABLES

3.1.1 CIGARETTE SMOKING STATUS AND LIFETIME CANNABIS USE (EXCLUDING ONE-TIME USE) MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY AGE.

	15 to 24	25 to 44	45 to 64	65 and over	Total	15 to 24	25 to 44	45 to 64	65+	Total
			Number of Peop	le				Prevalence		
Lifetime Cannabis	Use									
Total	1,619,919	4,023,544	3,491,381	331,134	9,465,978	100%	100%	100%	100%	100%
Current Smoker	699,213	1,578,225	1,139,195	56,838	3,473,471	43%	39%	33%	17%	37%
Former smoker	463,118	1,783,353	1,952,365	242,336	4,441,172	29%	44%	56%	73%	47%
Never Smoked	457,588	661,966	399,821	31,960	1,551,335	28%	16%	11%	10%	16%
No Lifetime Canna	bis Use									
Total	2,828,896	5,222,736	6,166,921	4,514,915	18,733,468	100%	100%	100%	100%	100%
Current Smoker	168,623	765,619	1,104,939	411,938	2,451,119	6%	15%	18%	9%	13%
Former smoker	312,250	1,339,886	2,405,542	2,478,649	6,536,327	11%	26%	39%	55%	35%
Never Smoked	2,348,023	3,117,231	2,656,440	1,624,328	9,746,022	83%	60%	43%	36%	52%

Breakdown by sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook ""Cannabis-Use.xlsx".

3.1.2 CIGARETTE SMOKING STATUS AND LIFETIME CANNABIS USE (EXCLUDING ONE-TIME USE) MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY REGION.

	Atlantic	Quebec	Ontario	Prairies	British Columbia	Atl.	Que.	Ont.	Prairie	B.C.		
			Number of Pe	ople			Prevalence					
Lifetime Cannabis	Use											
Total	695,121	2,190,057	3,423,900	1,692,324	1,464,574	100%	100%	100%	100%	100%		
Current Smoker	261,422	812,130	1,316,828	647,647	435,443	38%	37%	38%	38%	30%		
Former smoker	339,891	1,083,430	1,548,289	772,626	696,936	49%	49%	45%	46%	48%		
Never Smoked	93,808	294,497	558,783	272,051	332,195	13%	13%	16%	16%	23%		
No Lifetime Cann	abis Use											
Total	1,248,693	4,429,347	7,593,724	3,136,556	2,325,148	100%	100%	100%	100%	100%		
Current Smoker	175,471	669,147	956,730	408,722	241,048	14%	15%	13%	13%	10%		
Former smoker	523,789	1,763,366	2,456,651	1,072,968	719,553	42%	40%	32%	34%	31%		
Never Smoked	549,433	1,996,834	4,180,343	1,654,866	1,364,547	44%	45%	55%	53%	59%		

Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Cannabis-Use.xlsx".

3.1.3 LIFETIME CANNABIS USE (EXCLUDING ONE-TIME CANNABIS USE) AND CIGARETTE SMOKING STATUS MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY AGE.

	15 to 24	25 to 44	45 to 64	65 and over	Total	15 to 24	25 to 44	45 to 64	65+	Total
			Number of Peo	ple			• • • • • • • • • • • • • • • • • • • •	revalence		
							-			
Current Smoker										
Total	867,836	2,343,844	2,244,134	468,776	5,924,590	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	699,213	1,578,225	1,139,195	56,838	3,473,471	81%	67%	51%	12%	59%
Lifetime Cann. Use: No	168,623	765,619	1,104,939	411,938	2,451,119	19%	33%	49%	88%	41%
Former Smoker										
Total	775,368	3,123,239	4,357,907	2,720,985	10,977,499	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	463,118	1,783,353	1,952,365	242,336	4,441,172	60%	57%	45%	9%	40%
Lifetime Cann. Use: No	312,250	1,339,886	2,405,542	2,478,649	6,536,327	40%	43%	55%	91%	60%
Never Smoker										
Total	2,805,611	3,779,197	3,056,261	1,656,288	11,297,357	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	457,588	661,966	399,821	31,960	1,551,335	16%	18%	13%	2%	14%
Lifetime Cann. Use: No	2,348,023	3,117,231	2,656,440	1,624,328	9,746,022	84%	82%	87%	98%	86%

3.1.4 LIFETIME CANNABIS USE (EXCLUDING ONE-TIME CANNABIS USE) AND CIGARETTE SMOKING STATUS MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY REGION.

	Atlantic	Quebec	Ontario	Prairies	British Columbia	Atl.	Que.	Ont.	Prairie	B.C.
		N	lumber of Peop	le				Prevalence	е	
Current Smoker										
Total	436,893	1,481,277	2,273,558	1,056,369	676,491	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	261,422	812,130	1,316,828	647,647	435,443	60%	55%	58%	61%	64%
Lifetime Cann. Use: No	175,471	669,147	956,730	408,722	241,048	40%	45%	42%	39%	36%
Former Smoker										
Total	863,680	2,846,796	4,004,940	1,845,594	1,416,489	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	339,891	1,083,430	1,548,289	772,626	696,936	39%	38%	39%	42%	49%
Lifetime Cann. Use: No	523,789	1,763,366	2,456,651	1,072,968	719,553	61%	62%	61%	58%	51%
Never Smoker										
Total	643,241	2,291,331	4,739,126	1,926,917	1,696,742	100%	100%	100%	100%	100%
Lifetime Cann. Use: yes	93,808	294,497	558,783	272,051	332,195	15%	13%	12%	14%	20%
Lifetime Cann. Use: No	549,433	1,996,834	4,180,343	1,654,866	1,364,547	85%	87%	88%	86%	80%

Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Cannabis-Use.xlsx".

3.1.5 CIGARETTE SMOKING STATUS AND LIFETIME CANNABIS DEPENDENCE OR ABUSE Men and Women, CCHS Mental Health 2012.

	15 to 24	25 to 44	45 to 64	65 and over	Total	15 to 24	25 to 44	45 to 64	65+	Total
		l	Number of Peo	ple				Prevalence		
Lifetime Cannabi	s Dependenc	e or Abuse								
Total	484,559	791,413	591,157	46,172	1,913,302	100%	100%	100%	100%	100%
Current Smoker	264,776	409,816	189,644	f	875,544	55%	52%	32%	f	46%
Former smoker	139,896	331,426	377,567	34,264	883,153	29%	42%	64%	74%	46%
Never Smoked	79,887	50,171	23,946	f	154,605	16%	6%	4%	f	8%
No Lifetime Cann	nabis Depend	ence or Abuse	e							
Total	3,934,928	8,414,646	8,986,060	4,799,043	26,134,676	100%	100%	100%	100%	100%
Current Smoker	588,600	1,905,966	2,025,826	457,435	4,977,826	15%	23%	23%	10%	19%
Former smoker	630,394	2,783,056	3,928,863	2,685,920	10,028,233	16%	33%	44%	56%	38%
Never Smoked	2,715,934	3,725,624	3,031,371	1,655,688	11,128,617	69%	44%	34%	35%	43%

Breakdown by sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Cannabis-Abuse.xlsx".

3.1.6 PAST YEAR CANNABIS USE (EXCLUDING ONE-TIME CANNABIS USE) AND CIGARETTE SMOKING MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY AGE

	15 to 24	25 to 44	45 to 64	65 and over	Total	15 to 24	25 to 44	45 to 64	65+	Total
		l	Number of Peo	ple			F	revalence		
Current Smoker										
Total	867,837	2,343,256	2,244,134	457,280	5,912,507	100%	100%	100%	100%	100%
Past year Cann. Use: yes	541,504	675,643	346,634	0	1,563,781	62%	29%	15%		26%
Past year Cann. Use: No	326,333	1,667,613	1,897,500	457,280	4,348,726	38%	71%	85%	100%	74%
Former Smoker										
Total	774,841	3,123,239	4,355,995	2,701,336	10,955,411	100%	100%	100%	100%	100%
Past year Cann. Use: yes	324,130	528,096	212,857	0	1,065,083	42%	17%	5%		10%
Past year Cann. Use: No	450,711	2,595,143	4,143,138	2,701,336	9,890,328	58%	83%	95%	100%	90%
Never Smoker										
Total	2,805,612	3,779,197	3,056,260	1,651,144	11,292,213	100%	100%	100%	100%	100%
Past year Cann. Use: yes	313,866	191,167	66,623	0	571,656	11%	5%	2%	0%	5%
Past year Cann. Use: No	2,491,746	3,588,030	2,989,637	1,651,144	10,720,557	89%	95%	98%	100%	95%
All people										
Total	4,448,290	9,245,692	9,656,389	4,809,760	28,160,131	100%	100%	100%	100%	100%
Past year Cann. Use: yes	1,179,500	1,394,906	626,114	0	3,200,520	27%	15%	6%	0%	11%
Past year Cann. Use: No	3,268,790	7,850,786	9,030,275	4,809,760	24,959,611	73%	85%	94%	100%	89%

Coefficients of variation and 95% confidence intervals are available on the Excel Workbook "Cannabis-Use.xlsx".

3.1.7 PAST YEAR CANNABIS USE (EXCLUDING ONE-TIME CANNABIS USE) AND CIGARETTE SMOKING MEN AND WOMEN, CCHS MENTAL HEALTH 2012, BY REGION

	Atlantic	Quebec	Ontario	Prairies	British Columbia	Atl.	Que.	Ont.	Prairie	B.C.
		N	lumber of Peop	le				Prevalenc	е	
Current Smoker										
Total	436,895	1,480,689	2,273,558	1,056,371	676,491	100%	100%	100%	100%	100%
Past year Cann Use: yes	121,993	394,657	601,851	267,034	189,743	28%	27%	26%	25%	28%
Past year Cann. Use: No	314,902	1,086,032	1,671,707	789,337	486,748	72%	73%	74%	75%	72%
Former Smoker										
Total	863,261	2,846,796	4,004,940	1,845,594	1,414,471	100%	100%	100%	100%	100%
Past year Cann Use: yes	76,239	223,109	404,583	186,168	194,634	9%	8%	10%	10%	14%
Past year Cann. Use: No	787,022	2,623,687	3,600,357	1,659,426	1,219,837	91%	92%	90%	90%	86%
Never Smoker										
Total	643,242	2,291,332	4,739,126	1,926,918	1,696,741	100%	100%	100%	100%	100%
Past year Cann Use: yes	37,088	107,447	227,344	78,426	126,496	6%	5%	5%	4%	7%
Past year Cann. Use: No	606,154	2,183,885	4,511,782	1,848,492	1,570,245	94%	95%	95%	96%	93%
All people										
Total	1,943,398	6,618,817	11,017,624	4,828,883	3,787,703	100%	100%	100%	100%	100%
Past year Cann Use: yes	235,320	725,213	1,233,778	531,628	510,873	12%	11%	11%	11%	13%
Past year Cann. Use: No	1,708,078	5,893,604	9,783,846	4,297,255	3,276,830	88%	89%	89%	89%	87%

 $Coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "Cannabis-Use.xlsx".$

H2: Mental Health, Mental Disorders and Substance Abuse

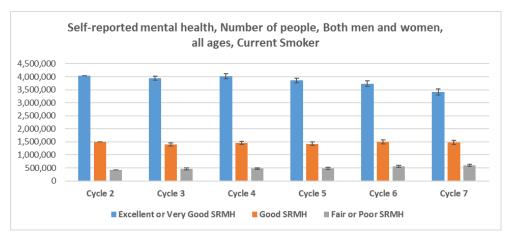
1 ONE HALF OF CURRENT SMOKERS HAVE EXPERIENCED MENTAL HEALTH OR SUBSTANCE USE DISORDERS IN THEIR LIFETIME.

1.1 Self-perceived mental health, Cycle 2 to Cycle 7

Since Cycle 2, self-rated mental health was measured by asking respondents, "In general, would you say your mental health is: excellent? very good? good? fair? poor?"³

Previous reviews using CCHS data have found that "mental health problems were elevated among current smokers."

Results from all 7 CCHS cycles showed that Canadians consistently rated their mental health as being "excellent" or "very good" (77%), "good" (19%) or "fair" or "poor" (4%). There was similarly little change in selfreported mental health and smoking status over the period.

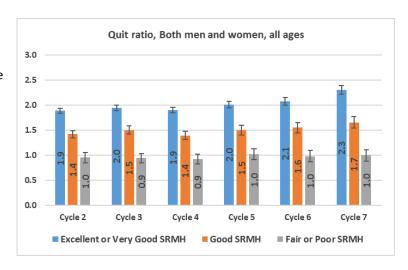


- In Cycle 7, current smoking was higher for those who rated their mental health as "fair or poor" compared to those whose ratings were "excellent or very good" (32.6 ± 2.6% vs. 16.4% ± 0.5%, respectively).
- There were almost 6 times as many current smokers who rated their mental health as "good or excellent" than those who rated it as "fair or poor". $(3,414,200 \pm 11,846 \text{ vs. } 598,700 \pm 47,900, \text{ respectively})$.
- Overall, the percentage of current smokers who rated their mental health as "good" or better decreased between cycle 2 and 7, (and the percentage of never smokers increased) but there was no significant change in the percentage of current smokers, former smokers or never smokers who reported their health as "fair or poor".

Validation of self-rated mental health. Farah N. Mawani and Heather Gilmour Statistics Canada, Health Reports, July 2010 4 The Prevalence of Tobacco Use Co-morbidities in Canada, Maritt Kirst, Graham Mecredy, Michael Chaiton, Can J Public Health, Vol 104, No 3 (2013)

³ A validation of this question conducted by Statistics Canada found there were "strong and consistent" associations between self-rated mental health and WHO-CIDI measured mental disorders. See:

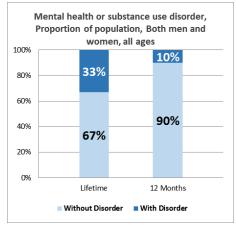
Throughout the 7 cycles, the "quit ratio" for those in the two higher self-rated mental health brackets was about twice that of those in the lower two. (2.3 ± 0.09 vs. 1.0 ± 0.1 in Cycle 7). A similar quit ratio pattern was observed in all age groups and for men and women.

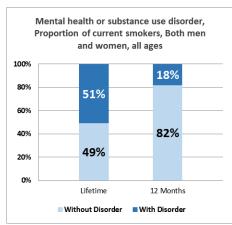


1.2 Mental Health Disorders and current smokers, CCHS 2012

In 2002 (Cycle 1.2) and again in 2012, the Canadian Community Health Survey focused on issues related to mental health.⁵ In 2012, the CCHS included questions which it used to apply a WHO-CIDI instrument to measure mental and substance use disorders. The derived variable it established with this process identifies all those who had within their lifetime or during the past year experienced major depressive episodes, bipolar illness, generalized anxiety disorder or substance use disorders such as alcohol abuse and/or dependence, cannabis abuse and/or dependence⁶ and drug abuse and/or dependence. Statistics Canada has provided an analysis of the results of this part of the survey.⁷

Among the general population, roughly 1 in 3 Canadians met the criteria for at least one mental or substance use disorder within their lifetime, and 1 in 10 met the criteria within the previous 12 months.





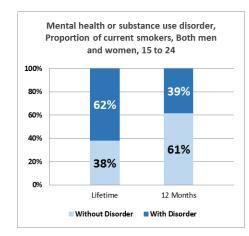
- Among current smokers, the rate was higher: 1 in 2 Canadian smokers met the criteria for at least one of these mental or substance use disorders, and 1 in 5 did so in the past year.
- In 2012, there were 2.9 million current smokers (± 229,000) who met the criteria for at least one of the mental or substance use disorders included in the CCHS (1.77 million men ± 159,000; 1.17 million women ± 133,000).

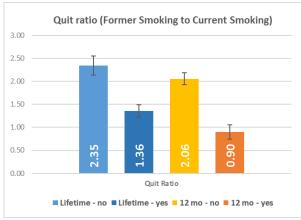
⁵ These results from the 2012 CCHS Mental Health component are not comparable with the previous CCHS Mental Health review, done in 2002.

⁶ Nicotine dependence was not included in the measurement of substance use disorders. The results for cannabis dependence and abuse are presented in a separate section of this report.

⁷ See Mental and substance use disorders in Canada. Caryn Pearson, Teresa Janz and Jennifer Ali. Statistics Canada, Catalogue no.82-624-X. September 2013

- For young Canadians (aged 15 to 24), the relationship between mental health and substance use disorders and smoking status is pronounced: 2 in 5 smokers (39%) met the criteria for such disorders within the past year.
- Those young people (aged 15 to 24) who met criteria for a mental or substance use disorder in their lifetime were more likely (4 times) to be current smokers (39% ± 8.8% vs 10.7% ± 3.2%), and much less likely to be a never smoker (35.3% ± 4.4% vs. 75.6% ± 2.1%).
- The Quit Ratio for those who have experienced Mental Health or Substance Use disorder in their lifetime is much higher than for
 - those who have not $(2.36 \pm 0.21 \text{ vs. } 1.36 \pm 0.14)$. There is a similar gap in the Quit Ratio between those who have had past-year experience of these disorders and those who have not $(2.06 \pm 0.13 \text{ vs. } 0.90 \text{ vs. } 0.16)$.
- If those who met criteria for lifetime mental and substance use disorders smoked at the same rate as those who did not, there would be 1.5 million fewer smokers (± 110,064).





1.3 ONE-FIFTH OF WOMEN SMOKERS (AND ONE-TENTH OF MEN) WERE CURRENTLY SUFFERING FROM A MOOD DISORDER, SUCH AS DEPRESSION, OR FROM ANXIETY.

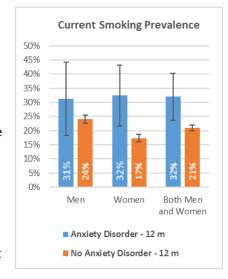
In the 2012 CCHS Mental Health survey, respondents were asked a series of questions to determine whether they had met criteria for a major depressive episode or generalized anxiety disorder in the past year. The derived variables produced from these questions were GADDY, GEPDDY.

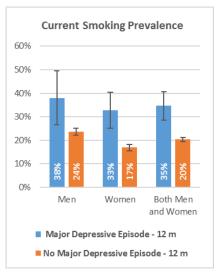
The CCHS Cycle 7 asks respondents whether they have been diagnosed with a mood disorder "such as depression, bipolar disorder, mania or dysthymia?" or whether they "have an anxiety disorder such as phobia, obsessive-

compulsive disorder or a panic disorder?". Before answering, respondents are reminded that the surveyors are "interested in conditions diagnosed by health professional and that are expected to last or have already lasted 6 months or more". (These questions were CCC_280, and CCC_290).

Results from 2012 CCHS Mental Health survey

The 2012 CCHS Mental Health survey results showed that about





5% of Canadians over 15 had experienced a major depressive episode in the previous year: 503,000 (\pm 85,500) men and 826,500 (\pm 109,000) women. A smaller number (3%) of Canadians had experienced an anxiety disorder in the same period: 270,450 (\pm 63,287) men and 451,200 (\pm 78,510) women.

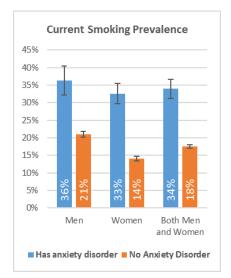
A higher proportion of current smokers had experienced depression (8%) or anxiety (4%). There were 461,400 (\pm 80,300) Canadian current smokers who had met criteria for a major depressive episode in the past year and 230,800 (\pm 60,000) who had met the criteria for generalized anxiety disorder in the previous year.

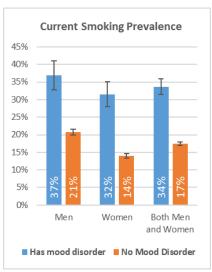
Approximately one-third of those who had experienced these conditions were smokers. Smoking prevalence for those who met criteria for depressive episode was 35% (\pm 6.0%) compared with 20% of those with no disorder (\pm 0.9%). For anxiety disorder the results were similar: 35% \pm 6% vs. 20% \pm 1%.

Results from Cycle 7

The results of Cycle 7 of the CCHS were similar to the 2012 CCHS Mental Health with respect to the current smoking prevalence of those who did or did not experience mental health conditions of depression or generalized anxiety.

Current smoking prevalence was much higher among those who reported that they had been diagnosed with a mood disorder (depression) than those who had not $(34\% \pm 2.2 \text{ vs. } 17\% \pm 0.5\%)$. The results were similar for those

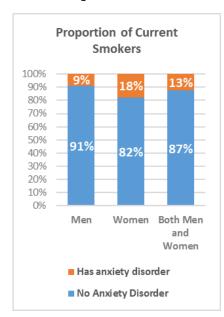


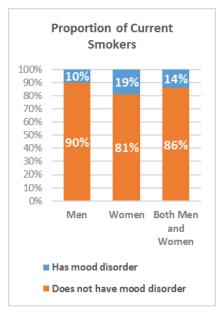


who reported they had been diagnosed with an anxiety disorder compared with those who had not $(34\% \pm 2.7\% \text{ vs. } 18\% \pm 0.5\%)$.

That is to say, 1 in 3 Canadians who reported being diagnosed with a mood or anxiety disorder also smoked, compared with 1 in 5 Canadians with no such diagnosis.

The total number of individuals who identified themselves as having been diagnosed with such a condition in Cycle 7 was larger than the number who were considered to have experienced the disorder by the criteria set for the 2012 CCHS Mental Health. In Cycle 7, about 8% of Canadians reported having been diagnosed with depression: 884,900 (± 58,400) men and 1,401,500 (± 78,500) women. About 7% of Canadians reported having been diagnosed with anxiety disorder: 755,900 (± 49,900) men and 1,291,200 (± 72,300) women.





2 TECHNICAL BACKGROUND

Variables used:

- GENC_02B; GENE_02B; GEN_02B
 Self-rated mental health
- GENC_02B; GENE_02B; GEN_02B
 Measured Mental Health and Substance Use Disorder: MHPFL (lifetime); MHPFY (past 12 months)
- GADDDY

General Anxiety Disorder – past year

GEPDDY

Major Depressive Episode – past year

• CCC_280

Has a mood disorder

• CCC 290

Has an anxiety disorder

MHPFL

Any selected disorder (mental or substance) - Lifetime diagnosis8

MHPFY

Any selected disorder (mental or substance) – 12 month diagnosis

Related Excel files:

- Mentalhealth.xlsx
 - o Table 1: Number of people and prevalence by smoking status
 - o Table 2: Share of population and share of current smokers
 - Quit Ratio
- Mentaldisorder.xlsx
 - Table 1: Number of people and prevalence, by smoking status and mental health/substance use disorders
 - Table 2: Number and prevalence of current smokers, by mental health/substance use disorders.
 - o Quit Ratio
- <u>Depressionandanxiety.xlsx</u>
 - o Table 1: Number of people and prevalence.

⁸ Selected disorders are major depressive episode, mania, bipolar I, bipolar II, generalized anxiety disorder, alcohol abuse, alcohol dependence, cannabis abuse, cannabis dependence, drug abuse, drug dependence.

3 SUMMARY TABLES

3.1 LIFETIME A MENTAL HEALTH OR SUBSTANCE ABUSE DISORDER MEN AND WOMEN, CCHS MENTAL HEALTH 2012.

	15 to 24	25 to 44	45 to 64	65 and over	Total	15 to 24	25 to 44	45 to 64	65+	Total
			Number of Peop	ole			P	revalence		
Any selected disor	der (mental o	r substance) –	life (MHPHF=	1)		_				
Total	1,343,563	3,162,281	3,527,962	1,083,563	9,117,369	100%	100%	100%	100%	100%
Current Smoker	526,493	1,148,632	1,109,450	157,315	2,941,890	39%	36%	31%	15%	32%
Former smoker	342,707	1,185,737	1,749,667	717,498	3,995,609	26%	37%	50%	66%	44%
Never Smoked	474,363	827,912	668,845	208,750	2,179,870	35%	26%	19%	19%	24%
No selected disord	er (mental or	substance) – I	ife (MHPHF=2)						
Total	3,036,132	5,928,528	5,902,772	3,584,157	18,451,589	100%	100%	100%	100%	100%
Current Smoker	323,363	1,156,826	1,074,779	300,750	2,855,718	11%	20%	18%	8%	15%
Former smoker	418,185	1,888,090	2,487,205	1,905,300	6,698,780	14%	32%	42%	53%	36%
Never Smoked	2,294,584	2,883,612	2,340,788	1,378,107	8,897,091	76%	49%	40%	38%	48%

Breakdown by sex, coefficients of variation and 95% confidence are available on the file Mentaldisorer.xlsx

3.2 SELF-RATED MENTAL HEALTH, NUMBER OF PEOPLE MEN AND WOMEN, ALL AGES, CCHS CYCLE 2 TO 7

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Excellent or Very Good Self-	Rated Menta	l Health					
Both men and women: total		18,920,496	19,689,581	20,269,625	20,682,745	20,605,360	20,762,199
Current Smoker		4,046,732	3,938,359	4,021,042	3,856,271	3,728,201	3,414,211
Former Smoker		7,645,601	7,688,167	7,663,105	7,743,250	7,750,235	7,876,869
Never Smoker		7,228,163	8,063,055	8,585,478	9,083,224	9,126,924	9,471,119
Good Self-Rated Mental Hea	lth						
Both men and women: total		5,622,582	5,455,101	5,569,877	5,843,991	6,320,295	6,578,784
Current Smoker		1,505,914	1,396,929	1,455,126	1,425,449	1,497,485	1,476,533
Former Smoker		2,139,472	2,105,195	2,030,138	2,141,868	2,327,120	2,443,401
Never Smoker		1,977,196	1,952,977	2,084,613	2,276,674	2,495,690	2,658,850
Fair or Poor Self-Rated Ment	tal Health						
Both men and women: total		1,201,023	1,284,418	1,328,944	1,451,250	1,621,869	1,836,857
Current Smoker		423,073	460,696	477,272	478,915	557,853	598,655
Former Smoker		403,900	436,477	441,883	490,322	548,661	599,209
Never Smoker		374,050	387,245	409,789	482,013	515,355	638,993

3.3 SELF-RATED MENTAL HEALTH, PREVALENCE OF SMOKING BEHAVIOUR, CCHS CYCLE 2 TO 7

Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7
Excellent or Very Good Self-Rated Menta	l Health					
Both men and women: total	100%	100%	100%	100%	100%	100%
Current Smoker	21%	20%	20%	19%	18%	16%
Former Smoker	40%	39%	38%	37%	38%	38%
Never Smoker	38%	41%	42%	44%	44%	46%
Good Self-Rated Mental Health						
Both men and women: total	100%	100%	100%	100%	100%	100%
Current Smoker	20%	18%	17%	16%	15%	14%
Former Smoker	38%	36%	35%	35%	35%	35%
Never Smoker	43%	45%	48%	49%	50%	51%
Fair or Poor Self-Rated Mental Health						
Both men and women: total	100%	100%	100%	100%	100%	100%
Current Smoker	23%	22%	23%	21%	21%	19%
Former Smoker	43%	42%	40%	40%	40%	41%
Never Smoker	34%	37%	37%	39%	39%	40%

Breakdown by age, sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "-Mentalhealth.xlsx".

3.4 MAJOR DEPRESSIVE EPISODE OR ANXIETY DISORDER EXPERIENCED IN THE PAST YEAR, CCHS MENTAL HEALTH 2012

NUMBER OF PEOPLE

	Men	Women	Men and Women	Men	Women	Men and Women
	Major De	pressive Episode-	Past year	No Major I	Depressive Episode	– Past year
Total	503,254	826,479	1,329,733	13,367,112	13,431,784	26,798,896
Current Smoker	191,366	270,015	461,381	3,167,603	2,274,503	5,442,106
	Anx	ety Disorder- Past	year	No An	xiety Disorder – pa	st year
Total	270,458	451,209	721,667	13,560,272	13,763,888	28,045,827
Current Smoker	84,661 (E)	146,127	230,788	3,265,121	2,383,968	5,879,877

 $Coefficients\ of\ variation\ and\ 95\%\ confidence\ intervals\ are\ available\ on\ the\ Excel\ Workbook\ "Depression and Anxiety.xlsx".;\ (E)\ -\ Caution,\ high\ sampling\ variability.$

3.5 DIAGNOSIS OF MOOD OR ANXIETY DISORDER, CCHS CYCLE 7

	Men	Women	Men and Women	Men	Women	Men and Women
	Diagr	nosed with mood d	isorder	Not dia	gnosed with mood	disorder
Total	884,913	1,401,452	2,286,365	13,812,229	13,661,202	27,473,431
Current Smoker	326,585	441,977	768,562	2,867,467	1,918,257	4,785,724
	Diagn	osed with anxiety o	lisorder	Not Diag	nosed with anxiety	disorder
Total	755,895	1,291,156	2,047,051	13,932,879	13,764,435	27,697,314
Current Smoker	274,469	420,786	695,255	2,917,440	1,939,958	4,857,398

Breakdown by sex, coefficients of variation and 95% confidence intervals are available on the Excel Workbook "DepressionandAnxiety.xlsx".