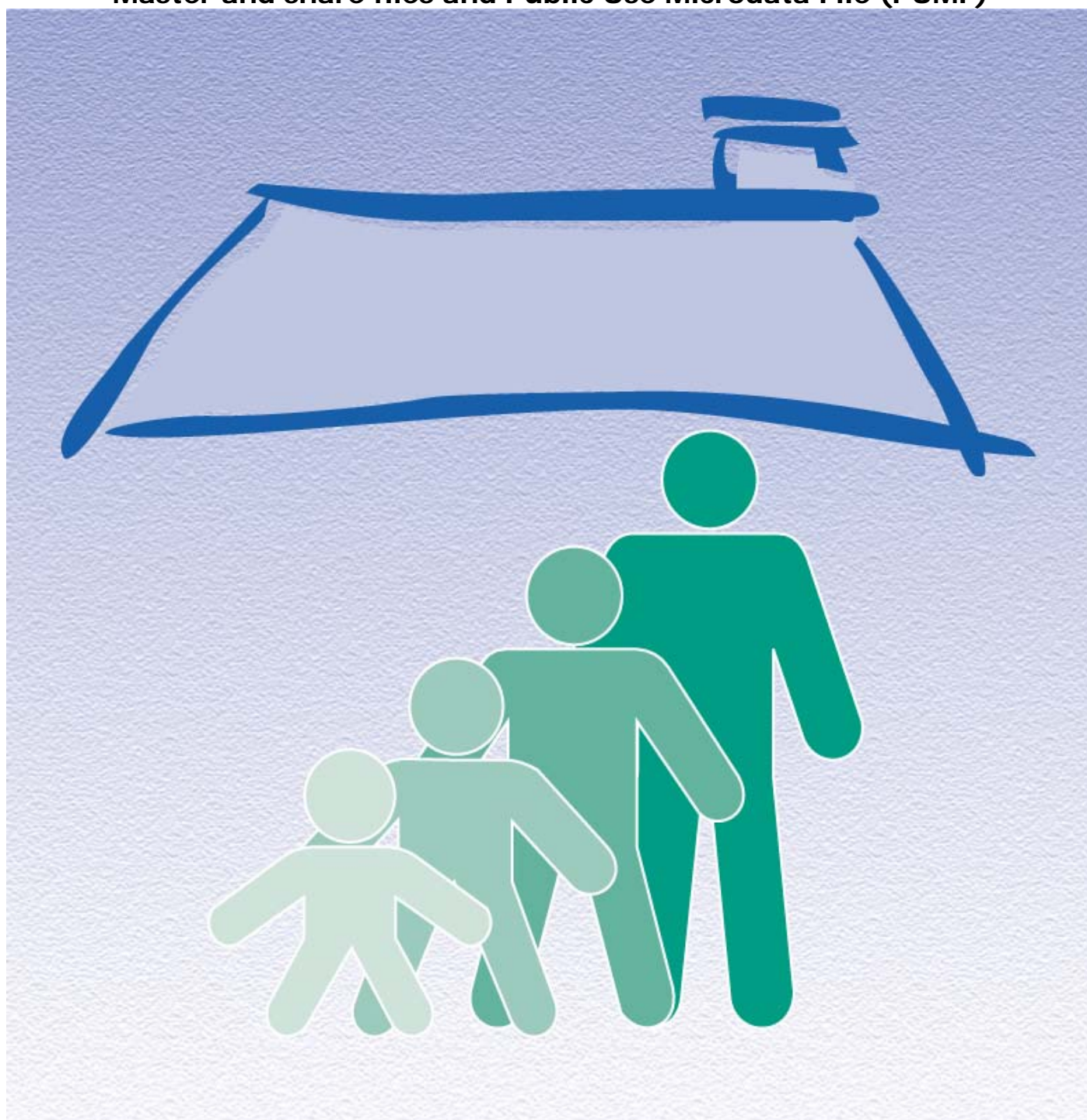


# Canadian Community Health Survey (CCHS)

2008 (Annual component) and 2007-2008

Derived Variable (DV) Specifications  
Master and share files and Public Use Microdata File (PUMF)



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## Alcohol use (1 DV)

### 1 ) Type of Drinker (12 Months)

**Variable name:** ALCDTTM

**Based on:** ALC\_1, ALC\_2

**Description:** This variable indicates the type of drinker the respondent is based on his/her drinking habits in the past 12 months.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** This derived variable is new for 2007. Some of the questions contained within the Alcohol Use module in previous cycles have been moved to new modules in 2007. As the new modules are optional content, most of the derived variables that were formerly calculated for all respondents in the Alcohol Use (ALC) module are now found in the new modules (Alcohol Use During the Past Week, Alcohol Use - Former Drinkers) and are only calculated for the health regions that selected the new modules. The new derived variable ALCDTTM was created to allow the classification of all respondents according to their drinking habits in the past 12 months.

#### Specifications

Value	Condition(s)	Description	Notes
9	(ALC_1 = DK, R, NS) or (ALC_2 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(2 <= ALC_2 < NA)	Regular drinker	
2	ALC_2 = 1	Occasional drinker	
3	ALC_1 = 2	Did not drink in the last 12 months	

## Alcohol use - Dependence (4 DVs)

The CCHS uses the full range of questions developed by Kessler and Mroczek to derive the measure of alcohol dependence. In the CCHS 2.1, respondents who had 5 drinks or more on one occasion at least once a month during the last 12 months answered the alcohol dependence questions.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>ALDT01</b> (2 - ALD_01)	(ALD_01 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT03</b> (2 - ALD_03)	(ALD_03 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT04</b> (2 - ALD_04)	(ALD_04 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT05</b> (2 - ALD_05)	(ALD_05 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT06</b> (2 - ALD_06)	(ALD_06 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT07</b> (2 - ALD_07)	(ALD_07 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	
<b>ALDT09</b> (2 - ALD_09)	(ALD_09 = 1, 2)	Rescale and invert the answers for questions ALD_01 to ALD_09 (except ALD_02 and ALD_08) from 1 and 2 to 1 and 0 respectively	

### 1) Alcohol Interference 12-Month - Mean

<b>Variable name:</b>	ALDDINT
<b>Based on:</b>	ALD_15A, ALD_5B1, ALD_5B2, ALD_15C, ALD_15D
<b>Description:</b>	This variable indicates the interference that alcohol use had on daily activities and responsibilities in the past 12 months. This is a mean of the 5 items.
<b>Introduced in:</b>	CCHS - Cycle 2.1
<b>Note:</b>	Respondents who answered no to each of the questions in relation to the alcohol dependence have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
99.6	ALDFOPT = 2	Module not selected	NA
99.6	ALD_15A = NA	Population exclusions	NA
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS

99.9	(ALD_15A = DK, R, NS) or (ALD_5B1 = DK, R, NS) or (ALD_5B2 = DK, R, NS) or (ALD_15C = DK, R, NS) or (ALD_15D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
(ALD_15A + ALD_5B1 + ALD_5B2 + ALD_15C + ALD_15D) / 5	(0<=ALD_5B1<=10) and (0<=ALD_5B2<=10) and (0<=ALD_15A<=10) and (0<=ALD_15C<=10) and (0<=ALD_15D<=10)	Interference = mean of all 5 items. Respondent answered all 5 questions	(rounded to one decimal place) (min: 0; max: 10)
(ALD_15A + ALD_5B2 + ALD_15C + ALD_15D) / 4	ALD_5B1 = 11 and (0<=ALD_5B2<=10) and (0<=ALD_15A<=10) and (0<=ALD_15C<=10) and (0<=ALD_15D<=10)	Interference = mean of 4 items that applied to respondent. ALD_5B1 was not applicable	(rounded to one decimal place) (min: 0; max: 10)
(ALD_15A + ALD_5B1 + ALD_15C + ALD_15D) / 4	(0<=ALD_5B1<=10) and ALD_5B2 = 11 and (0<=ALD_15A<=10) and (0<=ALD_15C<=10) and (0<=ALD_15D<=10)	Interference = mean of 4 items that applied to respondent. ALD_5B2 was not applicable	(rounded to one decimal place) (min: 0; max: 10)
(ALD_15A + ALD_15C + ALD_15D) / 3	ALD_5B1 = 11 and ALD_5B2 = 11 and (0<=ALD_15A<=10) and (0<=ALD_15C<=10) and (0<=ALD_15D<=10)	Interference = mean of 3 items that applied to respondent. ALD_5B1 and ALD_5B2 were not applicable	(rounded to one decimal place) (min: 0; max: 10)

## 2) Probability of Caseness to Respondents (Alcohol Dependence) - 12-Month

**Variable name:** ALDDPP

**Based on:** ALDDSF

**Description:** This variable calculates, from the alcohol dependence scale score obtained, the probability (expressed as a proportion) that the respondents would have been diagnosed with an alcohol dependence, if they had completed the Long-Form Composite International Diagnostic Interview (CIDI) at the time of the interview.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The probability of caseness to respondents was assigned based on their short-form scores. The short-form measure of Alcohol Dependence was developed to reproduce a measure that operationalized both Criterion A and Criterion B of the DSM-III-R diagnosis for Psychoactive Substance Use Disorder. A probability of caseness of 0 was assigned to respondents who denied the stem questions. The optimal dichotomous classification rule is to define all respondents with a short-form score of 3 or more as probable cases and all those with scores of 0 through 2 as probable non-cases.

Based on the information obtained from the National Comorbidity Survey (in the U.S.), the score on the screening scale was cross-classified against Alcohol Dependence caseness designations based on the CIDI diagnostic computer program.

### Specifications

Value	Condition(s)	Description	Notes
9.96	ALDDSF = NA	Module not selected	NA
9.99	ALDDSF = NS	At least one required question was not answered (don't know, refusal, not stated) or module not asked (proxy interview)	NS
0.00	ALDDSF = 0	Probability of caseness to respondents	
0.05	ALDDSF = 1	Probability of caseness to respondents	
0.40	ALDDSF = 2	Probability of caseness to respondents	
0.85	ALDDSF = 3	Probability of caseness to respondents	

1.00 (3 < ALDDSF < NA) Probability of caseness to respondents

### 3) Alcohol Dependence Scale (Short Form Score) - 12-Month

**Variable name:** ALDDSF

**Based on:** ALD\_01, ALD\_03, ALD\_04, ALD\_05, ALD\_06, ALD\_07, ALD\_09

**Description:** This variable assesses alcohol dependence in the 12 months prior to the interview. Alcohol dependence is defined as tolerance, withdrawal, or loss of control or social or physical problems related to alcohol use.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The index is based on a subset of items from the Composite International Diagnostic Interview (CIDI) developed by Kessler and Mroczek. The CIDI is a structured diagnostic instrument that provides diagnostic estimates according to the operationalization of some of the criteria of the DSM-III-R classification for psychoactive substance user disorder.

**Source:** Kessler R.C., G. Andrews and D. Mroczek and al. «The World Health Organisation Composite Diagnostic Interview Short-Form», Psychological Medicine.

Specifications			
Value	Condition(s)	Description	Notes
96	ALDFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(ALDT01 = DK, R, NS) or (ALDT03 = DK, R, NS) or (ALDT04 = DK, R, NS) or (ALDT05 = DK, R, NS) or (ALDT06 = DK, R, NS) or (ALDT07 = DK, R, NS) or (ALDT09 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	ALDT01 = NA	Did not drink enough in the past 12 months to answer the alcohol dependence questions	
ALDT01 + ALDT03 + ALDT04 + ALDT05 + ALDT06 + ALDT07 + ALDT09	(ALDT01 = 0, 1) and (ALDT03 = 0, 1) and (ALDT04 = 0, 1) and (ALDT05 = 0, 1) and (ALDT06 = 0, 1) and (ALDT07 = 0, 1) and (ALDT09 = 0, 1)	Score obtained on the alcohol dependence scale	(min: 0; max: 7)

### 4) Flag for Alcohol Interference 12-Month

**Variable name:** ALDFINT

**Based on:** ALD\_15A, ALD\_5B1, ALD\_5B2, ALD\_15C, ALD\_15D

**Description:** This variable indicates the interference that alcohol use had on daily activities and responsibilities in the past 12 months. This is a classification that indicates whether alcohol use interferes significantly with the person's normal routine, occupational (academic) functioning, or social activities or relationships.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who answered no to each of the questions in relation to the alcohol dependence have been excluded from the



population.

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
6	ALDFOPT = 2	Module not selected	NA
6	ALD_15A = NA	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(ALD_15A = DK, R, NS) or (ALD_5B1 = DK, R, NS) or (ALD_5B2 = DK, R, NS) or (ALD_15C = DK, R, NS) or (ALD_15D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(4<=ALD_15A<=10) or (4<=ALD_5B1<=10) or (4<=ALD_5B2<=10) or (4<=ALD_15C<=10) or (4<=ALD_15D<=10)	Alcohol use interfered significantly with the normal routine, occupational (academic) functioning, or social activities or relationships in the past 12 months	
2	(0<=ALD_15A<=3) and ((0<=ALD_5B1<=3) or ALD_5B1 = 11) and ((0<=ALD_5B2<=3) or ALD_5B2 = 11) and (0<=ALD_15C<=3) and (0<=ALD_15D<=3)	Alcohol use did not interfere significantly with the normal routine, occupation (academic) functioning or social activities or relationships in the past 12 months	

## Alcohol use - Former drinkers (1 DV)

### 1 ) Type of Drinker (Lifetime)

**Variable name:** ALNDTYP

**Based on:** ALC\_2, ALN\_1

**Description:** This variable indicates the type of drinker the respondent is based on his/her drinking habits.

**Introduced in:** CCHS - Cycle 1.1

**Note:** In previous cycles this variable was called ALCnDTYP. Before 2007, the "Alcohol use - Former drinkers" questions were included in the Derived Variable Specifications in the Alcohol Use (ALC) module which was asked of all respondents. This module is now optional and is only asked of respondents residing in the health regions that selected the Alcohol Use - Former Drinkers (ALN) module.

Specifications			
Value	Condition(s)	Description	Notes
6	ALNFOPT = 2	Module not selected	NA
9	(ALC_2 = DK, R, NS) or (ALN_1 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(2 <= ALC_2 < NA)	Regular drinker	
2	ALC_2 = 1	Occasional drinker	
3	ALN_1 = 1	Former Drinker	
4	ALN_1 = 2	Never Drank	

## Alcohol use during the past week (2 DVs)

### 1 ) Average Daily Alcohol Consumption

**Variable name:** ALWDDLY

**Based on:** ALWDWKY

**Description:** This variable indicates the average number of drinks the respondent consumed per day in the week prior to the interview.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who did not have at least one drink in the last 12 months were excluded from the population. Before 2007, this derived variable was called ALCnDDLY. It was included in the Derived Variable Specifications for the Alcohol Use (ALC) module and was calculated for all respondents. It is now only calculated for respondents residing in the health regions that selected the Alcohol Use During the Past Week (ALW) module.

Specifications			
Value	Condition(s)	Description	Notes
996	ALWFOPT = 2	Module not selected	NA
996	ALWDWKY = NA	Population exclusions	NA
999	ALWDWKY = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
ALWDWKY / 7	ALWDWKY < 694	Average daily alcohol consumption	(Rounded to integer) (min: 0; max: 99)

### 2 ) Weekly Consumption

**Variable name:** ALWDWKY

**Based on:** ALC\_1, ALW\_1, ALW\_2A1, ALW\_2A2, ALW\_2A3, ALW\_2A4, ALW\_2A5, ALW\_2A6, ALW\_2A7

**Description:** This variable indicates the total number of drinks consumed in the week prior to the interview.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who did not have at least one drink in the past 12 months were excluded from the population. Before 2007, this derived variable was called ALCnDWKY. It was included in the Derived Variable Specifications for the Alcohol Use (ALC) module and was calculated for all respondents. It is now only calculated for respondents residing in the health regions that selected the Alcohol Use During the Past Week (ALW) module.

Specifications			
Value	Condition(s)	Description	Notes
996	ALWFOPT = 2	Module not selected	NA
996	ALC_1 = 2	Population exclusions	NA
0	ALW_1 = 2	Has not had a drink in past week	

999	(ALW_1 = DK, R, NS) or (ALW_2A1 = DK, R, NS) or (ALW_2A2 = DK, R, NS) or (ALW_2A3 = DK, R, NS) or (ALW_2A4 = DK, R, NS) or (ALW_2A5 = DK, R, NS) or (ALW_2A6 = DK, R, NS) or (ALW_2A7 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
ALW_2A1 + ALW_2A2 + ALW_2A3 + ALW_2A4 + ALW_2A5 + ALW_2A6 + ALW_2A7	(0 <= ALW_2A1 < 100) and (0 <= ALW_2A2 < 100) and (0 <= ALW_2A3 < 100) and (0 <= ALW_2A4 < 100) and (0 <= ALW_2A5 < 100) and (0 <= ALW_2A6 < 100) and (0 <= ALW_2A7 < 100)	Number of drinks consumed in past week	(min: 0; max: 693)

## Chronic conditions (2 DVs)

### 1) Has Chronic Obstructive Pulmonary Disease (COPD)

**Variable name:** CCCDCPD

**Based on:** DHH\_AGE, CCC\_91A, CCC\_91E, CCC\_91F

**Description:** This DV is new for 2008. Chronic obstructive pulmonary disease is an umbrella term used to describe chronic lung diseases that cause limitations in lung airflow. The two most common COPD diseases are emphysema and chronic bronchitis. This derived variable indicates whether a respondent reported having been diagnosed by a health professional as having emphysema, chronic bronchitis or COPD.

**Introduced in:** CCHS - Cycle 4.1 - 2008

**Note:** Only available in the CCHS 2008 data files.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE < 35	Population exclusion	NA
9	(CCC_91A = DK, R, NS) or (CCC_91E = DK, R, NS) or (CCC_91F = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	CCC_91A = 1 or CCC_91E = 1 or CCC_91F = 1	Has COPD	
2	CCC_91A = 2 and CCC_91E = 2 and CCC_91F = 2	Does not have COPD	

### 2) Diabetes - age first diagnosed - (G)

**Variable name:** CCCG102

**Based on:** CCC\_Q102

**Description:** The respondent's age when first diagnosed with diabetes.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
96	CCC_Q102 = 96	Population exclusions	NA
99	CCC_Q102 = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
1	CCC_Q102=<11	The respondent's age when first diagnosed with diabetes.	
2	12=<CCC_Q102=<17	The respondent's age when first diagnosed with diabetes.	
3	18=<CCC_Q102=<24	The respondent's age when first diagnosed with diabetes.	

4	25=<CCC_Q102=<29	The respondent's age when first diagnosed with diabetes.
5	30=<CCC_Q102=<34	The respondent's age when first diagnosed with diabetes.
6	35=<CCC_Q102=<39	The respondent's age when first diagnosed with diabetes.
7	40=<CCC_Q102=<44	The respondent's age when first diagnosed with diabetes.
8	45=<CCC_Q102=<49	The respondent's age when first diagnosed with diabetes.
9	50=<CCC_Q102=<54	The respondent's age when first diagnosed with diabetes.
10	55=<CCC_Q102=<59	The respondent's age when first diagnosed with diabetes.
11	60=<CCC_Q102=<64	The respondent's age when first diagnosed with diabetes.
12	65=<CCC_Q102=<69	The respondent's age when first diagnosed with diabetes.
13	70=<CCC_Q102=<74	The respondent's age when first diagnosed with diabetes.
14	75=<CCC_Q102=<79	The respondent's age when first diagnosed with diabetes.
15	80=<CCC_Q102	The respondent's age when first diagnosed with diabetes.

## Problem gambling (6 DVs)

This module assesses gambling activity and problems with gambling. The questionnaire and derived variables are based on the Canadian Problem Gambling Index (CPGI) but a number of modifications made both to the questionnaire and the calculation of the derived variables (described below) means that the results are not directly comparable to the CPGI.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>CPGT03</b> (CPG_03-1)	(CPG_03 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT04</b> (CPG_04-1)	(CPG_04 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT05</b> (CPG_05-1)	(CPG_05 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT06</b> (CPG_06-1)	(CPG_06 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT07</b> (CPG_07-1)	(CPG_07 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT08</b> (CPG_08-1)	(CPG_08 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT09</b> (CPG_09-1)	(CPG_09 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT10</b> (CPG_10-1)	(CPG_10 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	
<b>CPGT13</b> (CPG_13-1)	(CPG_13 = 1, 2, 3, 4)	Rescale the variables so that the range is from 0 to 3 instead of 1 to 4	

### 1 ) Number of Types of Gambling Activities in the List Used to Calculate CPGI

<b>Variable name:</b>	CPGDACT
<b>Based on:</b>	CPG_01A, CPG_01B, CPG_01C, CPG_01D, CPG_01E, CPG_01F, CPG_01G, CPG_01H, CPG_01I, CPG_01J, CPG_01K, CPG_01L, CPG_01M
<b>Description:</b>	This variable indicates the number of different types of gambling activities, in the list of gambling activities used to calculate CPGI, in which the respondent participated.
<b>Introduced in:</b>	CCHS - Cycle 2.1

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>CPGT01A</b> 0	CPG_01A = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.	
1	(1<= CPG_01A <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.	

CPGT01B

0	CPG_01B = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01B <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01C</b>		
0	CPG_01C = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01C <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01D</b>		
0	CPG_01D = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01D <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01E</b>		
0	CPG_01E = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01E <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01F</b>		
0	CPG_01F = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01F <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01G</b>		
0	CPG_01G = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01G <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01H</b>		
0	CPG_01H = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01H <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01I</b>		
0	CPG_01I = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01I <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01J</b>		



0	CPG_01J = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01J <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01K</b>		
0	CPG_01K = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01K <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01L</b>		
0	CPG_01L = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01L <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.
<b>CPGT01M</b>		
0	CPG_01M = 8	Temporarily recode 8 to 0 so that "never" does not count in sum of different types of gambling activity participated in.
1	(1<= CPG_01M <=7)	Temporarily recode 1 to 7 to 1 so that each activity can be counted as a different type of gambling activity participated in.

**Specifications**

Value	Condition(s)	Description	Notes
96	CPGFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(CPGT01A = DK, R, NS) or (CPGT01B = DK, R, NS) or (CPGT01C = DK, R, NS) or (CPGT01D = DK, R, NS) or (CPGT01E = DK, R, NS) or (CPGT01F = DK, R, NS) or (CPGT01G = DK, R, NS) or (CPGT01H = DK, R, NS) or (CPGT01I = DK, R, NS) or (CPGT01J = DK, R, NS) or (CPGT01K = DK, R, NS) or (CPGT01L = DK, R, NS) or (CPGT01M = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
CPGT01A + CPGT01B + CPGT01C + CPGT01D + CPGT01E + CPGT01F + CPGT01G + CPGT01H + CPGT01I + CPGT01J + CPGT01K + CPGT01L + CPGT01M	(CPGT01A = 0, 1) and (CPGT01B = 0, 1) and (CPGT01C = 0, 1) and (CPGT01D = 0, 1) and (CPGT01E = 0, 1) and (CPGT01F = 0, 1) and (CPGT01G = 0, 1) and (CPGT01H = 0, 1) and (CPGT01I = 0, 1) and (CPGT01J = 0, 1) and (CPGT01K = 0, 1) and (CPGT01L = 0, 1) and (CPGT01M = 0, 1)	Number of different types of gambling activities participated in, in the list used to calculate CPGI, during the previous 12 months	(min: 0; max: 13)

## 2) Gambling Interference - Mean

**Variable name:** CPGDINT

**Based on:** CPG\_19A, CPG\_9B1, CPG\_9B2, CPG\_19C, CPG\_19D

**Description:** This variable indicates the interference that gambling had on daily activities and responsibilities in the past 12 months. This is a mean of the 5 items.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who did not gamble enough or did not indicate problems with gambling were excluded from the population. Higher scores indicate greater interference.

Specifications			
Value	Condition(s)	Description	Notes
99.6	CPGFOPT = 2	Module not selected	NA
99.6	CPG_19A = NA	Population exclusions	NA
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS
99.9	(CPG_19A = DK, R, NS) or (CPG_9B1 = DK, R, NS) or (CPG_9B21 = DK, R, NS) or (CPG_19C = DK, R, NS) or (CPG_19D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
((CPG_19A + CPG_9B1 + CPG_9B2 + CPG_19C + CPG_19D) / 5	(0 <= CPG_9B1 <= 10) and (0 <= CPG_9B2 <= 10) and (0 <= CPG_19A <= 10) and (0 <= CPG_19C <= 10) and (0 <= CPG_19D <= 10)	Degree of gambling interference = mean of all 5 items (mean value based on all 5 questions)	(Rounded to one decimal place) (min: 0; max: 10.0)
(CPG_19A + CPG_9B2 + CPG_19C + CPG_19D) / 4	CPG_9B1 = 11 and (0 <= CPG_9B2 <= 10) and (0 <= CPG_19A <= 10) and (0 <= CPG_19C <= 10) and (0 <= CPG_19D <= 10)	Degree of gambling interference (mean value based on 4 questions) Interference = mean of 4 items that applied CPG_9B1 (ability to attend school was not applicable)	(Rounded to one decimal place) (min: 0; max: 10.0)
(CPG_19A + CPG_9B1 + CPG_19C + CPG_19D) / 4	(0 <= CPG_9B1 <= 10) and CPG_9B2 = 11 and (0 <= CPG_19A <= 10) and (0 <= CPG_19C <= 10) and (0 <= CPG_19D <= 10)	Degree of gambling interference (mean value based on 4 questions) Interference = mean of 4 items that applied CPG_9B2 (ability to work at a job was not applicable)	(Rounded to one decimal place) (min: 0; max: 10.0)
(CPG_19A + CPG_19C + CPG_19D) / 3	CPG_9B1 = 11 and CPG_9B2 = 11 and (0 <= CPG_19A <= 10) and (0 <= CPG_19C <= 10) and (0 <= CPG_19D <= 10)	Degree of gambling interference (mean value based on 3 questions) Interference = mean of 3 items that applied CPG_9B1 and CPG_9B2 were not applicable	(Rounded to one decimal place) (min: 0; max: 10.0)

## 3) Problem Gambling Severity Index (PGSI) - Modified Version

**Variable name:** CPGDSEV

**Based on:** CPG\_02, CPG\_03, CPG\_04, CPG\_05, CPG\_06, CPG\_07, CPG\_08, CPG\_09, CPG\_10, CPG\_13, CPGFGAM

**Description:** This variable indicates the level of gambling problems of respondents using a 9 item scale.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A modification from the CPGI is that if respondents volunteered in CPGB\_02 that "I am not a gambler", they were not asked the severity questions despite having reported gambling activity in the past 12 months. These respondents are assigned a code of 95 for this variable. In addition, respondents who reported participating in each gambling activity from CPGB\_01B to CPGB\_01M at most 1 to 5 times each during the past year were not asked questions on problem gambling. Finally, gambling activities were regrouped in the questionnaire into fewer categories than used in the original CPGI. Modifications made to the original instrument were approved by Dr. Wynne. Non-gamblers have been excluded from the population. Higher scores indicate more problems associated with gambling.

Specifications			
Value	Condition(s)	Description	Notes
96	CPGFOPT = 2	Module not selected	NA
96	CPGFGAM = 2	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	CPGFGAM = NS or (CPGT03 = DK, R, NS) or (CPGT04 = DK, R, NS) or (CPGT05 = DK, R, NS) or (CPGT06 = DK, R, NS) or (CPGT07 = DK, R, NS) or (CPGT08 = DK, R, NS) or (CPGT09 = DK, R, NS) or (CPGT10 = DK, R, NS) or (CPGT13 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
95	CPG_02 = 5	Does not consider himself a gambler - severity questions not asked	
0	CPGFGAM = 1 and CPG_02 = NA	Gambled at most 1-5 times a year for each gambling activity mentioned - severity questions not asked	
CPGT03 + CPGT04 + CPGT05 + CPGT06 + CPGT07 + CPGT08 + CPGT09 + CPGT10 + CPGT13	(CPGT03 = 0, 1, 2, 3) and (CPGT04 = 0, 1, 2, 3) and (CPGT05 = 0, 1, 2, 3) and (CPGT06 = 0, 1, 2, 3) and (CPGT07 = 0, 1, 2, 3) and (CPGT08 = 0, 1, 2, 3) and (CPGT09 = 0, 1, 2, 3) and (CPGT10 = 0, 1, 2, 3) and (CPGT13 = 0, 1, 2, 3)	Score obtained on the problem gambling severity index	(min: 0; max: 27)

Reference: Modified from the CPGI (Canadian Problem Gambling Index) developed by Harold Wynne and Jackie Ferris. "The Canadian Problem Gambling Index, Final Report." - Final Report, Submitted to the Canadian Centre on Substance Abuse. Jackie Ferris, Harold Wynne.

#### 4) Type of Gambler

**Variable name:** CPGDTYP

**Based on:** CPGDSEV, CPGFGAM

**Description:** This variable categorizes respondents based on the severity of their problems associated with gambling.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A modification from the CPGI is that if respondents volunteered in CPG\_02 that "I am not a gambler", they were not asked the severity questions despite having reported gambling activity in the past 12 months. These respondents are assigned a code of 95. In addition, respondents who reported participating in each gambling activity from CPG\_01 to CPG\_01M at most 1 to 5 times each during the past year were not asked questions on problem gambling. Finally, gambling activities were regrouped in the questionnaire into fewer categories than used in the original CPGI. Modifications made to the original instrument were approved by Dr. Wynne.

#### Specifications

Value	Condition(s)	Description	Notes
96	CPGFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked (proxy interview)	NS
99	CPGDSEV = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
95	CPGDSEV = 95	Does not consider himself a gambler - severity questions not asked	
1	CPGFGAM = 2	Non-gambler	
2	CPGDSEV = 0	Non-problem gambler	
3	(CPGDSEV = 1, 2)	Low risk gambler	
4	(CPGDSEV = 3, 4, 5, 6, 7)	Moderate risk gambler	
5	CPGDSEV >= 8	Problem gambler	

Reference: Modified from the CPGI (Canadian Problem Gambling Index) developed by Harold Wynne and Jackie Ferris. "The Canadian Problem Gambling Index, Final Report." - Final Report, Submitted to the Canadian Centre on Substance Abuse. Jackie Ferris, Harold Wynne.

## 5) Gambling Activity - Gambler vs. Non-gambler

**Variable name:** CPGFGAM

**Based on:** CPG\_01A, CPG\_01B, CPG\_01C, CPG\_01D, CPG\_01E, CPG\_01F, CPG\_01G, CPG\_01H, CPG\_01I, CPG\_01J, CPG\_01K, CPG\_01L, CPG\_01M

**Description:** This variable categorizes respondents as gamblers or non-gamblers. A non-gambler is defined as someone who has not engaged at all in the past year in any type of the gambling activities listed. A gambler is defined as someone who has engaged in at least one type of gambling activity in the past year.

**Introduced in:** CCHS - Cycle 2.1

### Specifications

Value	Condition(s)	Description	Notes
6	CPGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(1 <= CPG_01A <= 7) or (1 <= CPG_01B <= 7) or (1 <= CPG_01C <= 7) or (1 <= CPG_01D <= 7) or (1 <= CPG_01E <= 7) or (1 <= CPG_01F <= 7) or (1 <= CPG_01G <= 7) or (1 <= CPG_01H <= 7) or (1 <= CPG_01I <= 7) or (1 <= CPG_01J <= 7) or (1 <= CPG_01K <= 7) or (1 <= CPG_01L <= 7) or (1 <= CPG_01M <= 7)	Gambler	

2	CPG_01A = 8 and CPG_01B = 8 and CPG_01C = 8 and CPG_01D = 8 and CPG_01E = 8 and CPG_01F = 8 and CPG_01G = 8 and CPG_01H = 8 and CPG_01I = 8 and CPG_01J = 8 and CPG_01K = 8 and CPG_01L = 8 and CPG_01M = 8	Non-gambler	
9	(CPG_01A = DK, R, NS) or (CPG_01B = DK, R, NS) or (CPG_01C = DK, R, NS) or (CPG_01D = DK, R, NS) or (CPG_01E = DK, R, NS) or (CPG_01F = DK, R, NS) or (CPG_01G = DK, R, NS) or (CPG_01H = DK, R, NS) or (CPG_01I = DK, R, NS) or (CPG_01J = DK, R, NS) or (CPG_01K = DK, R, NS) or (CPG_01L = DK, R, NS) or (CPG_01M = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 6) Flag for Gambling Interference

**Variable name:** CPGFINT

**Based on:** CPG\_19A, CPG\_9B1, CPG\_9B2, CPG\_19C, CPG\_19D

**Description:** This variable indicates the interference that gambling had on daily activities and responsibilities in the past 12 months. This is a threshold that indicates whether gambling interferes significantly with the person's normal routine, occupational (academic) functioning, or social activities or relationships.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who did not gamble enough or did not indicate problems with gambling were excluded from the population.

### Specifications

Value	Condition(s)	Description	Notes
6	CPGFOPT = 2	Module not selected	NA
6	CPG_19A = NA	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(4 <= CPG_19A <= 10) or (4 <= CPG_9B1 <= 10) or (4 <= CPG_9B2 <= 10) or (4 <= CPG_19C <= 10) or (4 <= CPG_19D <= 10)	Gambling interfered significantly with the normal routine, occupational (academic) functioning, or social activities or relationships in the past 12 months	
2	(0 <= CPG_19A <= 3) and [(0 <= CPG_9B1 <= 3) or CPG_9B1 = 11] and [(0 <= CPG_9B2 <= 3) or CPG_9B2 = 11] and (0 <= CPG_19C <= 3) and (0 <= CPG_19D <= 3)	Gambling did not interfere significantly with the normal routine, occupation (academic) functioning or social activities or relationships in the past 12 months	

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9	(CPG_19A = DK, R, NS) or (CPG_9B1 = DK, R, NS) or (CPG_9B2 = DK, R, NS) or (CPG_19C = DK, R, NS) or (CPG_19D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
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## Dwelling and household variables (17 DVs)

### 1 ) Number of Persons in Household between 6 and 11 Years of Age

**Variable name:** DHH611

**Based on:** SAMPLEID, PERSONID, DHH\_AGE

**Description:** This variable indicates the number of people living within a household whose age is between 6 and 11 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH\_AGE value from 6 to 11 within each SAMPLEID.

#### Specifications

Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	(6 <= DHH_AGE <= 11) (Member file)	Number of persons 6 to 11 in a household	(min: 0; max: 40)

### 2 ) Dwelling Type

**Variable name:** DHHDDWE

**Based on:** DHH\_DW1, DHH\_DW2 (not on the file)

**Description:** This variable indicates the type of dwelling the respondent lives in, according to the answer given either on the phone (DHH\_DW1 for an Area Frame case, or DHH\_DWT for a Telephone Frame case) or face-to-face (DHH\_DW2).

**Introduced in:** CCHS - Cycle 1.1

#### Specifications

Value	Condition(s)	Description	Notes
96	DHH_DW1 = NA or DHH_DW2 = NA or DHH_DWT = NA	Population exclusions	NA
99	(DHH_DW1 = DK, R, NS) or (DHH_DW2 = DK, R, NS) or (DHH_DWT = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(DHH_DW1 = 1) or (DHH_DW2 = 1) or (DHH_DWT = 1)	Single detached	
2	(DHH_DW1 = 2) or (DHH_DW2 = 2) or (DHH_DWT = 2)	Double	
3	(DHH_DW1 = 3) or (DHH_DW2 = 3) or (DHH_DWT = 3)	Row or terrace	

4	(DHH_DW1 = 4) or (DHH_DW2 = 4) or (DHH_DWT = 4)	Duplex
5	(DHH_DW1 = 5) or (DHH_DW2 = 5) or (DHH_DWT = 5)	Low-rise apartment (< 5 stories) or flat
6	(DHH_DW1 = 6) or (DHH_DW2 = 6) or (DHH_DWT = 6)	High-rise apartment (5 stories or more)
8	(DHH_DW1 = 8) or (DHH_DW2 = 8) or (DHH_DWT = 8)	Hotel/rooming house/camp
9	(DHH_DW1 = 9) or (DHH_DW2 = 9) or (DHH_DWT = 9)	Mobile home
10	(DHH_DW1 = 10) or (DHH_DW2 = 10) or (DHH_DWT = 10)	Other

### 3) Economic Family Status (Household Type)

**Variable name:** DHHDECF

**Based on:** DHH\_REL for all PERSONID in SAMPLEID, DHH\_AGE, DHH\_SEX, DHHHSZ

**Description:** This variable identifies the family relationships within the household. Economic family refers to a group of two or more persons who live in the same dwelling and are related to each other by blood, marriage, common-law or adoption. A couple may be of opposite or same sex. Foster children are included.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The necessary data is collected using a set of relationship codes that define a link between each person in a household. All relationships within each sample (relationship of each person in a household to each other person within that household) are used in creating this variable. The variable was based on the ages and reported relationships of each person to all others in the household. The matrix of relationship codes is not placed on the master file. Beginning in 2007, foster children under 18 years of age are now coded to "child".

#### Temporary Reformat

Value	Condition(s)	Description	Notes
DHH_REL			
Z	R, NS	Not stated	Relationship Codes
A	40, 41, 42, 43	Parental (40 = Father/Mother, 41 = Birth Father/Mother, 42 = Step Father/Mother, 43 = Adoptive Father/Mother)	Relationship Codes
L	60, 61, 62, 63, 64, 65, 70, 80, 90, 100, 110, 111, 112, 113, 114, 120, 121, 122, 123, 124, 260, 261, 262, 263	Other (60 = Brother/Sister, 61 = Full Sister/Brother, 62 = Half Sister/Brother, 63 = Step Sister/Brother, 64 = Adopted Sister/Brother, 65 = Foster Sister/Brother, 70 = Foster Parent, 80 = Foster Child, 90 = Grandparent, 100 = Grandchild, 110 = In-Law, 111 = Father/Mother-in-law, 112 = Son/Daughter-in-law, 113 = Brother/Sister-in-law, 114 = Other in-law, 120 = Other Related, 121 = Uncle/Aunt, 122 = Cousin, 123 = Nephew/Niece, 124 = Other Relative, 260 = Unrelated, 261 = Boyfriend/Girlfriend, 262 = Room-mate, 263 = Other Unrelated)	Relationship Codes



M	50, 51, 52, 53 (sorted by age)	Child (50 = Son/Daughter, 51 = Birth Child, 52 = Step Child, 53 = Adopted Child)	Relationship Codes
X	10, 20	Spouse (10 = Husband/Wife, 20 = Common Law Partner)	Relationship Codes
Y	251	Single	Relationship Codes

## Specifications

Value	Condition(s)	Description	Notes
99	Any DHH_REL = Z	Not Stated	NS
1	DHHDHSZ = 1	Unattached Individual  Unattached individual living alone (Household size=1)	
2	All DHH_REL for all PERSONID in SAMPLEID in (L,Y)	Unattached Individual Living With Others  Unattached individuals living together. There cannot be a marital/common-law or parental relationship but other relationships such as siblings are permitted	
3	DHHDHSZ = 2 and DHH_REL for both PERSONID in SAMPLEID = X	Couple Alone  Married or C/L with no children. No other relationships are permitted. (Household size=2)	
4	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and DHH_REL for all PERSONID in SAMPLEID <> A and M	Couple With No Children, Others  Married or C/L with no children. There can be no parent/child relationships. Other relationships are permitted	
5	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one is DHH_AGE < 25	Couple With Children < 25  Married or C/L couple with at least one partner being the parent of a dependent child. No other relationships are permitted	
6	At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one is DHH_AGE < 25	Couple With Children < 25, Others  Married or C/L couple with at least one partner being the parent of one child <25 years old in the household. Other relationships are permitted	
7	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Couple With All Children >=25  Married or C/L couple with all children >=25 years old. No other relationships are permitted	
8	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Couple With All Children >=25, Others  Married or C/L couple with all children >=25 years old. Other relationships are permitted	

9	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one DHH_AGE < 25	Female Lone Parent With Children < 25  One child must be <25 years old. No other relationships are permitted.
10	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one DHH_AGE < 25	Female Lone Parent With Children < 25, Others  One child must be <25 years old. Other relationships are permitted
11	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Female Lone Parent With All Children >=25  All children must be >=25 years old. No other relationships are permitted
12	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Female Lone Parent With All Children >=25, Others  All children must be >=25 years old. Other relationships are permitted
13	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one DHH_AGE < 25	Male Lone Parent With Children < 25  One child must be < 25 years old. No other relationships are permitted
14	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one DHH_AGE < 25	Male Lone Parent With Children <25, Others  One child must be <25 years old. Other relationships are permitted
15	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Male Lone Parent With All Children >=25  All children must be >=25 years old. No other relationships are permitted
16	DHHDSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Male Lone Parent With All Children >=25, Others  All children must be >=25 years old. Other relationships are permitted
17	Else	Other Family Type  All other household types

Reference: The standard classification Economic family status now includes foster children under 18 years of age. They were previously classified as persons not in economic families.

#### 4) Household Size

**Variable name:** DHHDSZ  
**Based on:** Based on household roster, SAMPLEID, PERSONID

**Description:** This variable indicates the number of people living within a household.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	Sort the file (Member file) by SAMPLEID and PERSONID	Number of persons in a household	(min: 1; max: 40)

## 5) Number of Persons in Household Less Than 12 Years of Age

**Variable name:** DHHDL12

**Based on:** SAMPLEID, PERSONID, DHH\_AGE

**Description:** This variable indicates the number of people living within a household whose age is less than 12 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH\_AGE value less than 12 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE < 12 (Member file)	Number of persons under 12 in a household	(min: 0; max: 40)

## 6) Number of Persons in Household Less Than 6 Years of Age

**Variable name:** DHHDL5

**Based on:** SAMPLEID, PERSONID, DHH\_AGE

**Description:** This variable indicates the number of people living within a household whose age is less than 6 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH\_AGE value less than 6 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of	DHH_AGE <= 5 (Member file)	Number of persons under 6 in a household	(min: 0; max: 40)

PERSONID's  
with each  
SAMPLEID

## 7) Living/Family Arrangement of Selected Respondent

**Variable name:** DHHDLVG  
**Based on:** DHH\_REL of selected respondent, DHHDSZ  
**Description:** This variable identifies the family relationships between the selected respondent and the rest of the household.  
**Introduced in:** CCHS - Cycle 1.1

**Note:** The necessary data is collected using a set of relationship codes that define a link between each person in a household. All relationships with the selected respondent within each sample (relationship of selected respondent to each other person within the household) are used in creating this variable.

Temporary Reformat			
Value	Condition(s)	Description	Notes
DHH_REL			
Z1	NS	Not stated	Relationship Codes
A1	40, 41, 42, 43	Parental (40 = Father/Mother, 41 = Birth Father/Mother, 42 = Step Father/Mother, 43 = Adoptive Father/Mother)	Relationship Codes
B1	50, 51, 52, 53	Child (50 = Son/Daughter, 51 = Birth Child, 52 = Step Child, 53 = Adopted Child)	Relationship Codes
C1	60, 61, 62, 63, 64	Sibling (60 = Brother/Sister, 61 = Full Sister/Brother, 62 = Half Sister/Brother, 63 = Step Sister/Brother, 64 = Adopted Sister/Brother)	Relationship Codes
K1	90, 100, 110, 111, 112, 113, 114, 120, 121, 122, 123, 124	Other relative (90 = Grandparent, 100 = Grandchild, 110 = In-Law, 111 = Father/Mother-in-law, 112 = Son/Daughter-in-law, 113 = Brother/Sister-in-law, 114 = Other in-law, 120 = Other Related, 121 = Uncle/Aunt, 122 = Cousin, 123 = Nephew/Niece, 124 = Other Relative)	Relationship Codes
L1	65, 70, 80, 260, 261, 262, 263	Non-relative (65 = Foster Sister/Brother, 70 = Foster Parent, 80 = Foster Child, 260 = Unrelated, 261 = Boyfriend/Girlfriend, 262 = Room-mate, 263 = Other Unrelated)	Relationship Codes
X1	10, 20	Spouse/Partner (10 = Husband/Wife, 20 = Common Law Partner)	Relationship Codes

Specifications			
Value	Condition(s)	Description	Notes
99	Any DHH_REL = Z1	Not Stated	NS
1	DHHDSZ = 1	Unattached individual living alone  Lives alone (Household size=1)	

2	All DHH_REL <> X1 and A1	Unattached individual living with others  Lives with others. S/he cannot have a marital/common-law or parental relationship but other relationships such as siblings are allowed
3	DHHDHSZ = 2 and DHH_REL = X1	Spouse/partner living with spouse/partner  Lives with spouse/partner only. (Household size=2)
4	DHHDHSZ > 2 and One DHH_REL = X1 and all other DHH_REL = A1	Parent living with spouse/partner and children  Lives with spouse/partner and child(ren)
5	All DHH_REL = A1	Single parent living with children  Lives with child(ren). No other relationships are permitted
6	DHHDHSZ = 2 and DHH_REL = B1	Child living with a single parent. (Household size=2)
7	DHHDHSZ > 2 and One DHH_REL = B1 and all other DHH_REL = C1	Child living with a single parent and siblings
8	DHHDHSZ = 3 and All DHH_REL = B1	Child living with two parents. (Household size=3)
9	DHHDHSZ > 3 and Two DHH_REL = B1 and all other DHH_REL = C1	Child living with two parents and siblings
10	Else	Other  Lives in a household composition not classified above

**8) Number of Persons in Household 16 or 17 Years of Age**

**Variable name:** DHHDOKD

**Based on:** PERSONID, DHH\_AGE, RELATIONSHIP

**Description:** This variable indicates the number of people living within a household whose age is 16 or 17 years old and whose relationship to at least one adult living within the household is child, grandchild, child-in-law, or niece or nephew.

**Introduced in:** CCHS - Cycle 3.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH\_AGE value of 16 or 17 and whose RELATIONSHIP value of (51, 52, 53, 80, 100, 112 or 123) within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE = 16, 17 (Member file) AND RELATIONSHIP = 51, 52, 53, 80, 100, 112, 123 (Relation files)	Number of persons aged 16 or 17 in a household whose relationship with at least one adult of the household is child, grandchild, child-in-law, or niece or nephew	(min: 0; max: 40)

**9) Number of Persons in Household Less Than 16 Years of Age**

**Variable name:** DHHDYKD

**Based on:** PERSONID, DHH\_AGE, RELATIONSHIP

**Description:** This variable indicates the number of people living within a household whose age is less than 16 years old.

**Introduced in:** CCHS - Cycle 3.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH\_AGE value of less than 16 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE <= 15 (Member file)	Number of persons under 16 in a household	(min: 0; max: 40)

## 10) Number of Persons in Household between 6 to 11 Years of Age - Grouped

**Variable name:** DHHG611

**Based on:** PERSONID, DHH\_AGE

**Description:** This variable indicates the number of people living within the household who are aged 6 to 11 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The variable DHHD611 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHH\_AGE value from 6 to 11 within each SAMPLEID.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DHHED611</b>			
Total number of PERSONIDs within each SAMPLEID	(6 <= DHH_AGE <= 11) (Member file)	Number of persons aged 6 to 11 in a household	(min: 1; max: 40)

Specifications			
Value	Condition(s)	Description	Notes
0	DHHD611 = 0	No persons aged 6 to 11 in the household	
1	DHHD611 => 1	One or more persons aged 6 to 11 in the household	

## 11) Age - Grouped

**Variable name:** DHHGAGE

**Based on:** DHH\_AGE

**Description:** This variable indicates the age of the selected respondent.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
1	12 <= DHH_AGE <= 14	Age between 12 and 14	
2	15 <= DHH_AGE <= 17	Age between 15 and 17	
3	18 <= DHH_AGE <= 19	Age between 18 and 19	
4	20 <= DHH_AGE <= 24	Age between 20 and 24	
5	25 <= DHH_AGE <= 29	Age between 25 and 29	
6	30 <= DHH_AGE <= 34	Age between 30 and 34	
7	35 <= DHH_AGE <= 39	Age between 35 and 39	
8	40 <= DHH_AGE <= 44	Age between 40 and 44	
9	45 <= DHH_AGE <= 49	Age between 45 and 49	
10	50 <= DHH_AGE <= 54	Age between 50 and 54	
11	55 <= DHH_AGE <= 59	Age between 55 and 59	
12	60 <= DHH_AGE <= 64	Age between 60 and 64	
13	65 <= DHH_AGE <= 69	Age between 65 and 69	
14	70 <= DHH_AGE <= 74	Age between 70 and 74	
15	75 <= DHH_AGE <= 79	Age between 75 and 79	
16	DHH_AGE >= 80	Age 80 and older	

## 12) Dwelling - number of bedrooms - Grouped

**Variable name:** DHHGBED

**Based on:** DHH\_BED

**Description:** This variable indicates the number of bedrooms in the dwelling.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	DHH_BED = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	DHH_BED = 0	No bedroom	
1	DHH_BED = 1	1 bedroom	
2	DHH_BED = 2	2 bedrooms	
3	DHH_BED = 3	3 bedrooms	
4	DHH_BED > 3	4 or more bedrooms	

### 13) Household size - Grouped

**Variable name:** DHHGHSZ

**Based on:** SAMPLEID, PERSONID, DHHDHSZ

**Description:** This variable indicates the number of people living within a household.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs within each SAMPLEID. DHHGHSZ is a grouping of DHHDHSZ.

Specifications			
Value	Condition(s)	Description	Notes
1	DHHDHSZ = 1	Exact number of persons living in household	
2	DHHDHSZ = 2	Exact number of persons living in household	
3	DHHDHSZ = 3	Exact number of persons living in household	
4	DHHDHSZ = 4	Exact number of persons living in household	
5	DHHDHSZ >= 5	Grouped - 5 or more persons live in the household	

### 14) Number of Persons in Household With Less Than 12 Years of Age - Grouped

**Variable name:** DHHGL12

**Based on:** PERSONID, DHH\_AGE, DHHDL12

**Description:** This variable indicates the number of people living within the household whose age is less than 12 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The variable DHHDL12 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHH\_AGE value less than 12 within each SAMPLEID. DHHGL12 is a regrouping of DHHDL12.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DHHDL12</b>			
Total number of PERSONIDs within each SAMPLEID	DHH_AGE < 12 (Member file)	Number of persons under 12 in a household	(min: 0; max: 40)

Specifications			
Value	Condition(s)	Description	Notes
0	DHHDL12 = 0	No persons under 12 in the household	
1	DHHDL12 >= 1	One or more persons under 12 in the household	



## 15) Number of Persons in Household With Less Than 6 Years of Age - Grouped

**Variable name:** DHHGLE5

**Based on:** PERSONID, DHH\_AGE

**Description:** This variable indicates the number of people living within the household whose age is less than 6 years old.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The variable DHHGLE5 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHH\_AGE value of 5 and under within each SAMPLEID. DHHGLE5 is a regrouping of DHHDL5.

### Temporary Reformat

Value	Condition(s)	Description	Notes
DHHDL5			
Total number of PERSONIDs within each SAMPLEID	DHH_AGE <= 5 (Member file)	Number of persons under 6 in a household	(values: 0-40)

### Specifications

Value	Condition(s)	Description	Notes
0	DHHDL5 = 0	No persons under 6 in the household	
1	DHHDL5 >= 1	One or more persons under 6 in the household	

## 16) Living/Family Arrangement of Selected Respondent - Grouped

**Variable name:** DHHGLVG

**Based on:** DHH\_REL of selected respondent, DHHDSZ, DHHDLVG

**Description:** This variable identifies the family relationships between the selected respondent and the rest of the household.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The necessary data are collected using a set of relationship codes that define a link between each pair of persons in a household. DHHGLVG is a regrouping of DHHDLVG.

### Temporary Reformat

Value	Condition(s)	Description	Notes
DHH_REL			

L1	F5*, G0*, H0*, Z0	Temporary recodes to collapse relationships - Non-relative	RELATIONSHIP CODES: * All Foster relationships (foster sister/brother, parent, or child) have been recoded into the "Non relative" category due to the temporary nature of the relationships.
K1	I0, J0, K0, L0	Temporary recodes to collapse relationships - Other relative	RELATIONSHIP CODES:
C1	F0, F1, F2, F3, F4	Temporary recodes to collapse relationships - Sibling	RELATIONSHIP CODES:
B1	E0, E1, E2, E3	Temporary recodes to collapse relationships - Child	RELATIONSHIP CODES:
A1	D0, D1, D2, D3	Relationship codes used - Parental	RELATIONSHIP CODES:
Z1	ZZ, L8, L9	Temporary recodes to collapse relationships - Not stated	RELATIONSHIP CODES:
X1	A0, B0, C0	Temporary recodes to collapse relationships - Spouse/Partner	RELATIONSHIP CODES:

**DHHDHSZ**

Total number of PERSONIDs within each SAMPLEID	Sort the file (Member file) by SAMPLEID and PERSONID	Number of persons in a household	(min: 1; max: 40)
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**Specifications**

Value	Condition(s)	Description	Notes
99	Any DHH_REL = Z1	Not stated	NS
1	DHHDHSZ = 1	Unattached individual living alone (Selected respondent lives alone. Household size = 1)	
2	DHHDHSZ > 1 and (no DHH_REL = X1) and (no DHH_REL = A1) and (no DHH_REL = B1)	Unattached individual living with others (Selected respondent lives with others. He/she cannot have a marital/commonlaw or parental relationship but other relationships such as siblings are allowed)	
3	DHHDHSZ = 2 and DHH_REL = X1	Spouse/partner living with spouse/partner (Selected respondent lives with spouse/partner only. Household size = 2)	
4	DHHDHSZ > 2 and one DHH_REL = X1 and all other DHH_REL = A1	Parent living with spouse/partner and children (Selected respondent lives with spouse/partner and one or more children)	
5	DHHDHSZ > 1 and all DHH_REL = A1	Single parent living with children (Selected respondent lives with one or more children. No other relationships are permitted)	
6	(DHHDHSZ = 2 and DHH_REL = B1) or (DHHDHSZ > 2 and one DHH_REL = B1 and all other DHH_REL = C1)	Selected respondent is a child living with a single parent with or without siblings	

7	(DHHDSZ = 3 and all DHH_REL = B1) or (DHHDSZ > 3 and two DHH_REL = B1 and all other DHH_REL = C1)	Selected respondent is a child living with two parents with or without siblings
8	Else	Other (Selected respondent lives in a household composition not classified above)

## 17) Marital status - Grouped

**Variable name:** DHHGMS  
**Based on:** DHH\_MS  
**Description:** This variable indicates the marital status for the selected respondent.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	DHH_MS = (DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	DHH_MS = 1	Married	
2	DHH_MS = 2	Common-law	
3	DHH_MS = 3, 4, 5	Widowed/Divorced/Separated	
4	DHH_MS = 6	Single	

## Distress (3 DVs)

Both the K10 and K6 scale questions were developed from a pool of 612 questions drawn from existing distress and depression screening scales (Kessler RC, et al, 2002). After eliminating redundant and unclear questions, the remaining questions in the pool were organized to retain items consistent with 15 domains represented in the DSM-III-R diagnoses of major depression and generalized anxiety disorder plus the positive affect domain. These items were eventually reduced to those found in the K6 and K10 through processes involving ratings by an expert advisory panel, and analyses using item response theory of two subsequent pilot surveys. The final K10 and K6 scale questions were generated from the analysis of the telephone pilot survey using factor-analysis (Kessler RC. et al. 2002; [http://www.hcp.med.harvard.edu/ncs/k6\\_scales.php](http://www.hcp.med.harvard.edu/ncs/k6_scales.php))

The effectiveness of the K6 and K10 measurement scales of non-specific psychological distress were subsequently tested in the Australian National Survey of Mental Health and Well-Being against the criteria for the DSM-IV disorders and both scales performed well (Furukawa TA et al. 2003.)

DSM refers to the Diagnostic and Statistical Manual of Mental Disorders used by the American Psychiatric Association. It is an internationally recognized classification of mental disorders with several versions.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DIST10A</b> (5 – DIS_10A)	DIS_10A <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10B</b> (5 – DIS_10B)	DIS_10B <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10C</b> (5 – DIS_10C)	DIS_10C <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10D</b> (5 – DIS_10D)	DIS_10D <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10E</b> (5 – DIS_10E)	DIS_10E <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10F</b> (5 – DIS_10F)	DIS_10F <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10G</b> (5 – DIS_10G)	DIS_10G <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10H</b> (5 – DIS_10H)	DIS_10H <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10I</b> (5 – DIS_10I)	DIS_10I <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	
<b>DIST10J</b> (5 – DIS_10J)	DIS_10J <= 5	Rescale and invert the question answers from 1 to 5 to 4 to 0	

### 1 ) Chronicity of Distress and Impairment Scale

<b>Variable name:</b>	DISDCHR
<b>Based on:</b>	DIS_10K, DIS_10L, DIS_10M
<b>Description:</b>	This variable classifies respondents according to the frequency of their distress feelings in the last month compared with usual.
<b>Introduced in:</b>	CCHS - Cycle 1.1
<b>Internet site:</b>	<a href="http://www.hcp.med.harvard.edu/ncs/k6_scales.php">http://www.hcp.med.harvard.edu/ncs/k6_scales.php</a>

Specifications			
Value	Condition(s)	Description	Notes
96	DISFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DIS_10K = DK, R, NS) or (DIS_10L = DK, R, NS) or (DIS_10M = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	DIS_10L = 1	A lot more distress than usual	
2	DIS_10L = 2	Somewhat more distress than usual	
3	DIS_10L = 3	A little more distress than usual	
4	DIS_10K = 3	About the same distress as usual	
5	DIS_10M = 3	A little less distress than usual	
6	DIS_10M = 2	Somewhat less distress than usual	
7	DIS_10M = 1	A lot less distress than usual	
8	DIS_10K = 4	Never had any distress	

## 2) Distress Scale - K10

**Variable name:** DISDDSX

**Based on:** DIS\_10A, DIS\_10B, DIS\_10C, DIS\_10D, DIS\_10E, DIS\_10F, DIS\_10G, DIS\_10H, DIS\_10I, DIS\_10J

**Description:** This variable determines the respondent's level of distress using ten questions.

**Introduced in:** CCHS - Cycle 2.1

**Note:** This variable is based on 10 items and is known as the K10. Higher scores indicate more distress.

**Internet site:** [http://www.hcp.med.harvard.edu/ncs/k6\\_scales.php](http://www.hcp.med.harvard.edu/ncs/k6_scales.php)

Specifications			
Value	Condition(s)	Description	Notes
96	DISFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DIST10A = DK, R, NS) or (DIST10B = DK, R, NS) or (DIST10C = DK, R, NS) or (DIST10D = DK, R, NS) or (DIST10E = DK, R, NS) or (DIST10F = DK, R, NS) or (DIST10G = DK, R, NS) or (DIST10H = DK, R, NS) or (DIST10I = DK, R, NS) or (DIST10J = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

DIST10A +	DIST10A <= 4 and	Score obtained on the distress scale (K10)	(min: 0; max: 40)
DIST10B +	DIST10B <= 4 and		
DIST10C +	DIST10C <= 4 and		
DIST10D +	DIST10D <= 4 and		
DIST10E +	DIST10E <= 4 and		
DIST10F +	DIST10F <= 4 and		
DIST10G +	DIST10G <= 4 and		
DIST10H +	DIST10H <= 4 and		
DIST10I +	DIST10I <= 4 and		
DIST10J	DIST10J <= 4		

### 3) Distress Scale - K6

**Variable name:** DISDK6

**Based on:** DIS\_10B, DIS\_10D, DIS\_10E, DIS\_10H, DIS\_10I, DIS\_10J

**Description:** This variable determines the respondent's level of distress using six questions.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is based on 6 items and is known as the K6. Higher scores indicate more distress.

**Internet site:** [http://www.hcp.med.harvard.edu/ncs/k6\\_scales.php](http://www.hcp.med.harvard.edu/ncs/k6_scales.php)

#### Specifications

Value	Condition(s)	Description	Notes
96	DISFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DIST10B = DK, R, NS) or (DIST10D = DK, R, NS) or (DIST10E = DK, R, NS) or (DIST10H = DK, R, NS) or (DIST10I = DK, R, NS) or (DIST10J = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
DIST10B + DIST10D + DIST10E + DIST10H + DIST10I + DIST10J	DIST10B <= 4 and DIST10D <= 4 and DIST10E <= 4 and DIST10H <= 4 and DIST10I <= 4 and DIST10J <= 4	Score obtained on the distress scale (K6)	(min: 0; max: 24)

## Depression (4 DVs)

The depression module used in CCHS is based on a long form of the Composite International Diagnostic Interview (CIDI) scale, which was developed in the late 1980s/early 1990s. This scale was never fully validated by the CIDI research team and its psychometric properties are therefore not well understood. Statistics Canada is currently exploring strategies to complete such a validation. At this time, Statistics Canada recommends that analysis of data from this module be restricted to examination of depression as a correlate of other health behaviours and characteristics. For now, use of the data as an indicator for the probability of depression or to calculate simple population prevalence is discouraged.

<b>Temporary Reformat</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
<b>DPST02</b>			
0	DPS_02 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST05</b>			
0	DPS_05 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST06</b>			
0	DPS_06 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST08A</b>			
0	(DPS_07 = 3, 4) or [DPS_07 > 2 or (DPS_08A = DK, R, NS)]	For DPS_07, answers are rescaled so 0 = respondents whose weight stayed the same or were on a diet	
0	[DPS_07 <= 2 and (DPS_08A <> DK, R, NS)] and (DPS_08A <= 9 or DPS_08B <> 1) or (DPS_08A <= 4 or DPS_08B <> 2)	For DPS_08A, answers are rescaled so 1 = respondent gained or lost more than 4 kg (9 lbs.) and 0 if less or did not lose/gain weight	
1	[DPS_07 <= 2 and (DPS_08A <> DK, R, NS)] and [(DPS_08A > 9 and DPS_08B = 1) or (DPS_08A > 4 and DPS_08B = 2)]	For DPS_08A, answers are rescaled so 1 = respondent gained or lost more than 4 kg (9 lbs.) and 0 if less or did not lose/gain weight	
<b>DPST10</b>			
0	DPS_10 = 3 or DPS_09 = 2	For DPS_10, answers are rescaled so 1 = respondent had trouble falling asleep every night or nearly every night and 0 if less often or not at all	
1	DPS_10 = 1, 2	For DPS_10, answers are rescaled so 1 = respondent had trouble falling asleep every night or nearly every night and 0 if less often or not at all	
<b>DPST11</b>			
0	DPS_11 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST12</b>			
0	DPS_12 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST13</b>			
0	DPS_13 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST16</b>			
0	DPS_16 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST19</b>			
0	DPS_19 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
<b>DPST21A</b>			
0	(DPS_20 = 3, 4) or [DPS_20 > 2 or (DPS_21A = DK, R, NS)]	For DPS_21, answers are rescaled so 0 = respondents whose weight stayed the same or were on a diet	
0	[DPS_20 <= 2 and (DPS_21A <> DK, R, NS)] and (DPS_21A <= 9 or DPS_21B <> 1) or (DPS_21A <= 4 or DPS_21B <> 2)	For DPS_21, answers are rescaled so 1 = respondent gained or lost more than 4 kg (9 lbs.) and 0 if less or did not lose/gain weight	
1	[DPS_20 <= 2 and (DPS_21A <> DK, R, NS)] and [(DPS_21A > 9 and DPS_21B = 1) or (DPS_21A > 4 and DPS_21B = 2)]	For DPS_21 answers are rescaled so 1 = respondent gained or lost more than 4 kg (9 lbs.) and 0 if less or did not lose/gain weight	

<b>DPST23</b>		
0	DPS_23 = 3 or DPS_22=2	For DPS_23 answers are rescaled so 1 = respondent had trouble falling asleep every night or nearly every night and 0 if less often or not at all
1	DPS_23 = 1, 2	For DPS_23 answers are rescaled so 1 = respondent had trouble falling asleep every night or nearly every night and 0 if less often or not at all
<b>DPST24</b>		
0	DPS_24 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no
<b>DPST25</b>		
0	DPS_25 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no
<b>DPST26</b>		
0	DPS_26 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no

## 1) Specific Month Last Felt Depressed

**Variable name:** DPSPDMT

**Based on:** DPS\_14, DPS\_15, DPS\_27, DPS\_28

**Description:** This variable indicates the specific month when the respondent last felt depressed in the last year.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The following respondents have been excluded from the population:  
 1) respondents who did not show any required signs of depression; or  
 2) respondents who have been depressed for more than 51 weeks in the past year

Specifications			
Value	Condition(s)	Description	Notes
96	DPSFOPT= 2	Module not selected	NA
96	DPS_15 = NA and DPS_28 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DPS_14 = 52, DK, R, NS) or (DPS_15 = DK, R, NS) or (DPS_27 = 52, DK, R, NS) or (DPS_28 = DK, R, NS) or (DPS_08A = DK, R, NS) or (DPS_21A = DK, R, NS)	Was depressed for >51 weeks last year or at least one required question was not answered (don't know, refusal, not stated)	NS
DPS_15	DPS_14 < 52 and DPS_15 < NA	Specific month respondent felt sad, blue or depressed for at least 2 weeks in a row	(min : 1; max : 12)
DPS_28	DPS_14 >= NA and DPS_27 < 52 and DPS_28 < NA	Specific month respondent last lost interest in things for at least 2 weeks in a row	(min : 1; max : 12)

## 2) Depression Scale - Probability of Caseness to Respondents

**Variable name:** DPSPDP

**Based on:** DPSPDSF

**Description:** This variable calculates from the score obtained on the depression scale, the probability (expressed as a proportion) that the



respondent would have been diagnosed as having experienced a major depressive episode in the past 12 months, if they had completed the Long-Form Composite International Diagnostic Interview (CIDI).

**Introduced in:** CCHS - Cycle 1.1

**Note:** A probability of caseness of 0 was assigned to respondents who denied the stem questions.

**Internet site:** National Comorbidity Survey: [www.hcp.med.harvard.edu/ncs/](http://www.hcp.med.harvard.edu/ncs/)  
Composite International Diagnostic Interview (CIDI): [www.who.int/msa/cidi/index.htm](http://www.who.int/msa/cidi/index.htm)

Specifications			
Value	Condition(s)	Description	Notes
9.96	DPSDSF = NA	Module not selected	NA
9.99	ADM_PRX = 1	Module not asked - proxy interview	NS
9.99	DPSDSF = NS	At least one required question was not answered (don't know, refusal, not stated) or module not asked (proxy interview)	NS
0	DPSDSF = 0	Probability of caseness to respondents	
0.05	DPSDSF = 1	Probability of caseness to respondents	
0.25	DPSDSF = 2	Probability of caseness to respondents	
0.50	DPSDSF = 3	Probability of caseness to respondents	
0.80	DPSDSF = 4	Probability of caseness to respondents	
0.90	DPSDSF > 4	Probability of caseness to respondents	

### 3) Derived Depression Scale - Short Form Score

**Variable name:** DPSDSF

**Based on:** DPS\_02, DPS\_05, DPS\_06, DPS\_08A, DPS\_08B, DPS\_10, DPS\_11, DPS\_12, DPS\_13, DPS\_16, DPS\_17, DPS\_18, DPS\_19, DPS\_21A, DPS\_21B, DPS\_23, DPS\_24, DPS\_25, DPS\_26

**Description:** This variable assesses the depression level of respondents who felt depressed or lost interest in things for 2 weeks or more last year. These include normal periods of sadness (for example, after the death of a loved one), as well as "serious" depression.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The items used to measure depression are based on the work of Kessler and Mroczek (from University of Michigan). They selected a subset of items from the Composite International Diagnostic Interview (CIDI) that measure major depressive episodes (MDE). The CIDI is a structure diagnostic instrument that was designed to produce diagnoses according to the definitions and the criteria of both DSM-III-R and the Diagnostic Criteria for the Research of the ICD-10. The short-form of MDE used in the CCHS was developed to operationalize Criteria A through C of the DSM-III-R diagnosis of MDE. The diagnostic hierarchy rules defined in the Criterion D (not superimposed on schizophrenia, schizophrenia form disorder, delusional disorders, or psychotic disorders NOS) were ignored.

Higher scores indicate higher level of depression.

**Internet site:** National Comorbidity Survey: [www.hcp.med.harvard.edu/ncs/](http://www.hcp.med.harvard.edu/ncs/)  
Composite International Diagnostic Interview (CIDI): [www.who.int/msa/cidi/index.htm](http://www.who.int/msa/cidi/index.htm)

Specifications			
Value	Condition(s)	Description	Notes
96	DPSFOPT = 2	Module not selected	NA

99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DPST02 = DK, R, NS) or (DPST05 = DK, R, NS) or (DPST06 = DK, R, NS) or (DPST08A = DK, R, NS) or (DPST10 = DK, R, NS) or (DPST11 = DK, R, NS) or (DPST12 = DK, R, NS) or (DPST13 = DK, R, NS) or (DPST16 = DK, R, NS) or (DPS_17 = DK, R, NS) or (DPS_18 = DK, R, NS) or (DPST19 = DK, R, NS) or (DPST21A = DK, R, NS) or (DPST23 = DK, R, NS) or (DPST24 = DK, R, NS) or (DPST25 = DK, R, NS) or (DPST26 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	DPST02 < NA and DPST05 = NA and DPST19 = NA	Did not feel depressed or did not lose interest in things for two weeks last year, or did so only mildly (less than most of day and at least almost everyday for at least two weeks)	
DPST02 + DPST05 + DPST06 + DPST08A + DPST10 + DPST11 + DPST12 + DPST13	DPST02 = 1 and (DPST05 = 1, 0) and (DPST06 = 1, 0) and (DPST08A = 1, 0) and (DPST10 = 1, 0) and (DPST11 = 1, 0) and (DPST12 = 1, 0) and (DPST13 = 1, 0)	Felt depressed for 2 weeks or more last year	(min: 1; max: 8)
DPST16 + DPST19 + DPST21A + DPST23 + DPST24 + DPST25 + DPST26	DPST16 = 1 and (DPST19 = 1, 0) and (DPST21A = 1, 0) and (DPST23 = 1, 0) and (DPST24 = 1, 0) and (DPST25 = 1, 0) and (DPST26 = 1, 0)	Lost interest in things for 2 weeks or more last year	(min: 1; max: 7)

#### 4) Number of Weeks Feeling Depressed - 12-Months

**Variable name:** DPSPWK

**Based on:** DPS\_14, DPS\_27

**Description:** This variable indicates the number of weeks the respondent felt depressed in the last 12 months.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who did not show any required signs of depression have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	DPSFOPT = 2	Module not selected	NA
96	DPS_14 = NA and DPS_27 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS

99	(DPS_14 = DK, R, NS) or (DPS_27 = DK, R, NS) or (DPS_08A = DK, R, NS) or (DPS_21A = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
DPS_14	DPS_14 < NA	Number of weeks respondent felt sad, blue or depressed in the last year	
DPS_27	DPS_14 >= NA and DPS_27 < NA	Number of weeks respondent lost interest in things in the last year	

## Driving and safety (1 DV)

### 1 ) Passenger Seat Belt Use (Motor Vehicle)

**Variable name:** DRVFSBU

**Based on:** DRV\_08A, DRV\_08B

**Description:** This variable indicates whether the respondent always fastens his/her seatbelt when he/she is a front seat or back seat passenger in a car, truck or van.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Those who are never a front-seat and never a rear-set passenger in a car, truck or van are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	DRVFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
6	DRV_08A = 5 and DRV_08B = 5	Population exclusions	NA
1	(DRV_08A = 1, 5) and (DRV_08B = 1, 5)	Always fastens seatbelt when a passenger in a private vehicle	
2	(DRV_08A = 2, 3, 4) or (DRV_08B = 2, 3, 4)	Does not always fasten seat belt when a passenger in a private vehicle	
9	(DRV_08A = DK, R, NS) or (DRV_08B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Dietary supplement use - Vitamins and minerals (1 DV)

### 1 ) Frequency of Consumption of Vitamin or Mineral Supplements

**Variable name:** DSUDCON

**Based on:** DSU\_1A, DSU\_1B, DSU\_1C

**Description:** This variable classifies respondents who consumed vitamin or mineral supplements in the 4 weeks before the interview according to the frequency of their consumption in the week prior to the interview.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
96	DSUFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DSU_1A = DK, R, NS) or (DSU_1B = DK, R, NS) or (DSU_1C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	DSU_1A = 2	Non-user in last 4 weeks	
2	DSU_1B = 2	Occasional user in last 4 weeks - less than once a week	
3	(DSU_1C = 1, 2)	Regular user in last 4 weeks - 1 to 2 days in last week	
4	(DSU_1C = 3, 4)	Regular user in last 4 weeks - 3 to 4 days in last week	
5	(DSU_1C = 5, 6)	Regular user in last 4 weeks - 5 to 6 days in last week	
6	DSU_1C = 7	Regular user in last 4 weeks - 7 days in last week	

## Education (4 DVs)

### 1) Highest Level of Education - Household, 4 Levels

**Variable name:** EDUDH04

**Based on:** EDUDR04 for each member of the household

**Description:** This variable indicates the highest level of education acquired by any member of the household.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by temporarily creating EDUDR04 for each member of the household (all PERSONID within SAMPLEID). The highest value is then obtained by comparing values of EDUDR04 for all members within the household. If any PERSONID has EDUDR04 of NS (not stated) then NS is returned. If all of EDUDR04 are NA (not applicable) then NA is returned.

### 2) Highest Level of Education - Household, 10 Levels

**Variable name:** EDUDH10

**Based on:** EDUDR10 for each member of the household

**Description:** This variable indicates the highest level of education acquired by any member of the household.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is derived by temporarily creating EDUDR10 for each member of the household (all PERSONID within SAMPLEID). The highest value is then obtained by comparing values of EDUDR10 for all members within the household. If any PERSONID has EDUDR10 of NS (not stated) then NS is returned. If all of EDUDR10 are NA (not applicable) then NA is returned.

### 3) Highest Level of Education - Respondent, 4 Levels

**Variable name:** EDUDR04

**Based on:** EDU\_1, EDU\_2, EDU\_3, EDU\_4

**Description:** This variable indicates the highest level of education acquired by the respondent.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
1	[(EDU_1 = 1, 2) or EDU_2 = 2] and EDU_3 = 2	Less than secondary school graduation	
2	EDU_2 = 1 and EDU_3 = 2	Secondary school graduation, no post-secondary education	
3	EDU_4 = 1	Some post-secondary education	
4	(2 <= EDU_4 <= 6)	Post-secondary degree/diploma	

9	(EDU_2 = DK, R, NS) or (EDU_3 = DK, R, NS) or (EDU_4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
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#### 4) Highest Level of Education - Respondent, 10 Levels

**Variable name:** EDUDR10

**Based on:** EDU\_1, EDU\_2, EDU\_3, EDU\_4

**Description:** This variable indicates the highest level of education acquired by the respondent.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
1	EDU_1 = 1 and EDU_3 = 2	Grade 8 or lower (Québec: Secondary II or lower)	
2	EDU_1 = 2 and EDU_3 = 2	Grade 9-10 (Québec: Secondary III or IV; Newfoundland & Labrador: 1st year of secondary)	
3	EDU_1 = 3 and EDU_2 = 2 and EDU_3 = 2	Grade 11-13 (Québec: Secondary V; Newfoundland & Labrador: 2nd to 4th year of secondary)	
4	EDU_2 = 1 and EDU_3 = 2	Secondary school graduate, no post-secondary education	
5	EDU_4 = 1	Some post secondary education	
6	EDU_4 = 2	Trade certificate or diploma from a vocational school or apprenticeship training	
7	EDU_4 = 3	Non-university certificate or diploma from a community college, CEGEP, etc.	
8	EDU_4 = 4	University certificate below bachelor's level	
9	EDU_4 = 5	Bachelor's degree	
10	EDU_4 = 6	University degree or certificate above bachelor's degree	
99	[(EDU_1 = DK, R, NS) and EDU_2 = 2] or (EDU_2 = DK, R, NS) or (EDU_3 = DK, R, NS) or (EDU_4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Exposure to second-hand smoke (1 DV)

### 1 ) Number of people who smoke inside home - (G)

**Variable name:** ETSG11

**Based on:** ETS\_11

**Description:** This variable groups the number of people who smoke inside the home.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	ETS_11 = 96	Not applicable	
9	ETS_11 = 97, 98, or 99	Not stated	
	ETS_11 = 1	One person smokes inside the home.	
	ETS_11 = 2	Two people smoke inside the home.	
	ETS_11 = 3	Three people smoke inside the home.	
	ETS_11 >= 4	At least 4 people smoke inside the home.	



## Food choices (3 DVs)

### 1) Avoids Certain Foods for Certain Content Reasons

**Variable name:** FDCFAVD

**Based on:** FDC\_3A, FDC\_3B, FDC\_3C, FDC\_3D, FDC\_3E

**Description:** This variable indicates whether the respondent avoids certain foods because of concerns about fat, the type of fat, salt, cholesterol or calorie content.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	FDCFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	FDC_3A = 2 and FDC_3B = 2 and FDC_3C = 2 and FDC_3D = 2 and FDC_3E = 2	Does not avoid certain foods because of concerns about fat, the type of fat, salt, cholesterol and calorie content	
1	FDC_3A = 1 or FDC_3B = 1 or FDC_3C = 1 or FDC_3D = 1 or FDC_3E = 1	Avoids certain foods because of concerns about fat, the type of fat, salt, cholesterol or calorie content	
9	(FDC_3A = DK, R, NS) or (FDC_3B = DK, R, NS) or (FDC_3C = DK, R, NS) or (FDC_3D = DK, R, NS) or (FDC_3E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2) Chooses or Avoids Certain Foods Because of Certain Health Concerns

**Variable name:** FDCFAH

**Based on:** FDC\_1A, FDC\_1B, FDC\_1C, FDC\_1D

**Description:** This variable indicates whether the respondent chooses or avoids certain types of foods because of one or more of the following health concerns: body weight, heart disease, cancer, and osteoporosis.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	FDCFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	FDC_1A = 2 and FDC_1B = 2 and FDC_1C = 2 and FDC_1D = 2	Does not choose or avoid certain foods because of health concerns related to body weight, heart disease, cancer, osteoporosis	

1	FDC_1A = 1 or FDC_1B = 1 or FDC_1C = 1 or FDC_1D = 1	Choose or avoids certain foods because of health concerns related to body weight, heart disease, cancer or osteoporosis	
9	(FDC_1A = DK, R, NS) or (FDC_1B = DK, R, NS) or (FDC_1C = DK, R, NS) or (FDC_1D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 3) Chooses Certain Foods for Certain Content Reasons

**Variable name:** FDCFCHO

**Based on:** FDC\_2A, FDC\_2B, FDC\_2C

**Description:** This variable indicates whether the respondent chooses certain foods because of concerns about fat, fibre, or calcium content.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	FDCFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	FDC_2A = 2 and FDC_2B = 2 and FDC_2C = 2	Does not choose certain foods because of concerns about fat, fibre and calcium content	
1	FDC_2A = 1 or FDC_2B = 1 or FDC_2C = 1	Chooses certain foods because of concerns about fat, fibre or calcium content	
9	(FDC_2A = DK, R, NS) or (FDC_2B = DK, R, NS) or (FDC_2C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Food security (2 DVs)

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DHHTDKS</b>			
0	DHHYKD = 0 and DHDOKD = 0	Set value to 0 to indicate households WITHOUT children	
1	DHHYKD <> 0 or DHDOKD <> 0	Set value to 1 to indicate households WITH children	

### 1 ) Household food security status

**Variable name:** FSCDHFS

**Based on:** FSC\_020, FSC\_030, FSC\_040, FSC\_050, FSC\_060, FSC\_070, FSC\_080, FSC\_081, FSC\_090, FSC\_100, FSC\_110, FSC\_120, FSC\_121, FSC\_130, FSC\_140, FSC\_141, FSC\_150, FSC\_160

**Description:** This variable is based on a set of 18 questions and indicates whether households both with and without children were able to afford the food they needed in the previous 12 months. It captures four kinds of situations:

- 1 - Food secure: Household members show no or minimal evidence of food insecurity.
- 2 - Food insecure without hunger: Household members feel anxious about running out of food or compromise on the quality of foods they eat by choosing less expensive options. Little or no reduction in the household members' food intake is reported.
- 3 - Food insecure with MODERATE hunger: Food intake for adults in the household has been reduced to an extent that implies that adults have repeatedly experienced the physical sensation of hunger. In most (but not all) food insecure households with children, such reductions are not observed at this stage for children.
- 4 - Food insecure with SEVERE hunger: At this level, all households with children have reduced the children's food intake to an extent indicating that the children have experienced hunger. Adults in households with and without children have repeatedly experienced more extensive reductions in food intake.

**Introduced in:** CCHS - Cycle 3.1

**Note:** Households with children are defined as households with individuals who are either aged 15 or less (DHHYKD=1), or aged 16 or 17 (DHDOKD=1) and who are the child, grandchild, child-in-law, niece or nephew of another household member.

In order to determine household food security status, responses to each question are first coded as either "affirmative" or "negative". Some of this coding is obvious because the only response options are "yes" or "no". For questions with less obvious response categories, the procedure for coding is as follows: response categories such as "Often true", "Sometimes true", "Almost every month", "Some months but not every month" are coded as "affirmative" (i.e. coded equal to 1). Response categories such as "Never true", "Only 1 or 2 months" are coded as "negative" (i.e. coded equal to 0).

**Internet site:** [www.ers.usda.gov/briefing/foodsecurity](http://www.ers.usda.gov/briefing/foodsecurity)

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>FSCT020</b>			
0	FSC_020 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
1	(FSC_020 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
<b>FSCT030</b>			
0	FSC_030 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	

1	(FSC_030 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC040</b>		
0	FSC_040 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_040 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC050</b>		
0	(FSC_050 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_050 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC060</b>		
0	(FSC_060 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_060 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC070</b>		
0	(FSC_070 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_070 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC080</b>		
0	(FSC_080 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_080 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC081</b>		
0	(FSC_081 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_081 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSC090</b>		

0	(FSC_090 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_090 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT100</b>		
0	(FSC_100 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_100 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT110</b>		
0	(FSC_110 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_110 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT120</b>		
0	(FSC_120 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_120 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT121</b>		
0	(FSC_121 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_121 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT130</b>		
0	(FSC_130 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_130 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT140</b>		
0	(FSC_140 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.

1	FSC_140 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
<b>FSCT141</b>			
0	(FSC_141 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
1	(FSC_141 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
<b>FSCT150</b>			
0	(FSC_150 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
1	FSC_150 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
<b>FSCT160</b>			
0	(FSC_160 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
1	FSC_160 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.	
<b>FSCTSUM</b>			
FSCT020 + FSCT030 + FSCT040 + FSCT050 + FSCT060 + FSCT070 + FSCT080 + FSCT081 + FSCT090 + FSCT100 + FSCT110 + FSCT120 + FSCT121 + FSCT130 + FSCT140 + FSCT141 + FSCT150 + FSCT160	All	Sum of all temporary variables to be used in determining the level of household food insecurity	(Min: 0; Max: 18)

**Specifications**

Value	Condition(s)	Description	Notes
9	(FSC_020 = DK, R, NS) or (FSC_030 = DK, R, NS) or (FSC_040 = DK, R, NS) or (FSC_050 = DK, R, NS) or (FSC_060 = DK, R, NS) or (FSC_070 = DK, R, NS) or (FSC_080 = DK, R, NS) or (FSC_081 = DK, R, NS) or (FSC_090 = DK, R, NS) or	At least one required question was not answered (don't know, refusal, not stated)	NS

	(FSC_100 = DK, R, NS) or (FSC_110 = DK, R, NS) or (FSC_120 = DK, R, NS) or (FSC_121 = DK, R, NS) or (FSC_130 = DK, R, NS) or (FSC_140 = DK, R, NS) or (FSC_141 = DK, R, NS) or (FSC_150 = DK, R, NS) or (FSC_160 = DK, R, NS)	
0	(0 <= FSCTSUM <= 2)	Food secure
1	[DHHTDKS = 1 and (3 <= FSCTSUM <= 7)] or [DHHTDKS = 0 and (3 <= FSCTSUM <= 5)]	Food insecure without hunger
2	[DHHTDKS = 1 and (8 <= FSCTSUM <= 12)] or [DHHTDKS = 0 and (6 <= FSCTSUM <= 8)]	Food insecure with moderate hunger
3	[DHHTDKS = 1 and (13 <= FSCTSUM <= 18)] or [DHHTDKS = 0 and (9 <= FSCTSUM <= 10)]	Food insecure with severe hunger

Reference: The model for "household food security status" levels is adopted from the U.S. model of food security status levels published by U.S. Department of Agriculture in 2000. For more information about this model, please see Bickel, Gary, Mark Nord, Cristofer Price, William Hamilton, and John Cook, "Guide to Measuring Household Food Security, Revised 2000"

## 2) Household Food Security Status - Modified version

**Variable name:** FSCDHFS2

**Based on:** FSC\_020, FSC\_030, FSC\_040, FSC\_050, FSC\_060, FSC\_070, FSC\_080, FSC\_081, FSC\_090, FSC\_100, FSC\_110, FSC\_120, FSC\_121, FSC\_130, FSC\_140, FSC\_141, FSC\_150, FSC\_160

**Description:** This variable is based on a set of 18 questions and indicates whether households both with and without children were able to afford the food they needed in the previous 12 months. It captures three kinds of situations:

- 1- Food secure: No, or one, indication of difficulty with income-related food access.
- 2- Moderately food insecure: Indication of compromise in quality and/or quantity of food consumed.
- 3- Severely food insecure: Indication of reduced food intake and disrupted eating patterns.

This variable is adopted from the Health Canada model of food security status.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Households with children are defined as households with individuals who are either aged 15 or less (DHHDYKD=1), or aged 16 or 17 (DHHDOKD=1) and who are the child, grandchild, child-in-law, niece or nephew of another household member.

In order to determine household food security status, responses to each question are first coded as either "affirmative" or "negative". Some of this coding is obvious because the only response options are "yes" or "no". For questions with less obvious response categories, the procedure for coding is as follows: response categories such as "Often true", "Sometimes true", "Almost every month", "Some months but not every month" are coded as "affirmative" (i.e. coded equal to 1). Response categories such as "Never true", "Only 1 or 2 months" are coded as "negative" (i.e. coded equal to 0).

**Internet site:** [www.hc-sc.gc.ca/fn-an/surveill/nutrition/commun/index\\_e.html](http://www.hc-sc.gc.ca/fn-an/surveill/nutrition/commun/index_e.html)

### Temporary Reformat

Value	Condition(s)	Description	Notes
FSCASUM			

FSCT020 + FSCT030 + FSCT040 + FSCT080 + FSCT081 + FSCT090 + FSCT100 + FSCT110 + FSCT120 + FSCT121	All	Sum of all temporary variables for adults to be used in determining the level of household food insecurity (Min: 0; Max: 10)  Total will range from 0 to 10.
<b>FSCCSUM</b>		
FSCT050 + FSCT060 + FSCT070 + FSCT130 + FSCT140 + FSCT141 + FSCT150 + FSCT160	All	Sum of all temporary variables for children to be used in determining the level of household food insecurity (Min: 0; Max: 8)  Total will range from 0 to 8.
<b>FSCT020</b>		
0	FSC_020 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_020 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT030</b>		
0	FSC_030 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_030 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT040</b>		
0	FSC_040 = 3	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_040 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT050</b>		
0	(FSC_050 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_050 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT060</b>		
0	(FSC_060 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.



1	(FSC_060 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT070</b>		
0	(FSC_070 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_070 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT080</b>		
0	(FSC_080 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_080 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT081</b>		
0	(FSC_081 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_081 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT090</b>		
0	(FSC_090 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_090 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT100</b>		
0	(FSC_100 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_100 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT110</b>		
0	(FSC_110 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_110 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT120</b>		

0	(FSC_120 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_120 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT121</b>		
0	(FSC_121 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_121 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT130</b>		
0	(FSC_130 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_130 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT140</b>		
0	(FSC_140 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_140 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT141</b>		
0	(FSC_141 = 3 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	(FSC_141 = 1 or 2)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT150</b>		
0	(FSC_150 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
1	FSC_150 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
<b>FSCT160</b>		
0	(FSC_160 = 2 or NA)	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.

1	FSC_160 = 1	Set the value to 0 if respondent did not provide an "affirmative" response to food security questions. Set the value to 1, if respondent did provide an "affirmative" response. See note above.
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## Specifications

Value	Condition(s)	Description	Notes
9	(FSC_020 = DK, R, NS) or (FSC_030 = DK, R, NS) or (FSC_040 = DK, R, NS) or (FSC_050 = DK, R, NS) or (FSC_060 = DK, R, NS) or (FSC_070 = DK, R, NS) or (FSC_080 = DK, R, NS) or (FSC_081 = DK, R, NS) or (FSC_090 = DK, R, NS) or (FSC_100 = DK, R, NS) or (FSC_110 = DK, R, NS) or (FSC_120 = DK, R, NS) or (FSC_121 = DK, R, NS) or (FSC_130 = DK, R, NS) or (FSC_140 = DK, R, NS) or (FSC_141 = DK, R, NS) or (FSC_150 = DK, R, NS) or (FSC_160 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	[DHHTDKS = 1 and (0 <= FSCASUM <= 1) and (0 <= FSCCSUM <= 1)] or [DHHTDKS = 0 and (0 <= FSCASUM <= 1)]	Food secure	
1	[DHHTDKS = 1 and (2 <= FSCASUM <= 5) and (2 <= FSCCSUM <= 4)] or [DHHTDKS = 1 and (2 <= FSCASUM <= 5) or (2 <= FSCCSUM <= 4)] or [DHHTDKS = 0 and (2 <= FSCASUM <= 5)]	Moderately food insecure	
2	[DHHTDKS = 1 and (6 <= FSCASUM <= 10) or (5 <= FSCCSUM <= 8)] or [DHHTDKS = 0 and (6 <= FSCASUM <= 10)]	Severely food insecure	

Reference: The model for FSCDHFS2 is adopted from the Health Canada model of food security status levels published by Health Canada in 2007. For more information about this model, please see The Office of Nutrition Policy and Promotion, Health Canada, "Canadian Community Health Survey, Cycle 2.2, Nutrition (2004)-Income-Related Household Food Security in Canada".

## Fruit and vegetable consumption (8 DVs)

### 1 ) Daily Consumption - Carrots

- Variable name:** FVDCAR
- Based on:** FVC\_5A, FVC\_5B, FVC\_5C, FVC\_5D, FVC\_5E
- Description:** This variable indicates the usual number of times per day the respondent consumes carrots.
- Introduced in:** CCHS - Cycle 1.1
- Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_5A = DK, R, NS) or (FVC_5B = DK, R, NS) or (FVC_5C = DK, R, NS) or (FVC_5D = DK, R, NS) or (FVC_5E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_5B	FVC_5A = 1	Number of times/day	
FVC_5C / 7	FVC_5A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_5D / 30	FVC_5A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_5E / 365	FVC_5A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_5A = 5	Never eats carrots	

### 2 ) Daily Consumption - Other Fruit

- Variable name:** FVCDFRU
- Based on:** FVC\_2A, FVC\_2B, FVC\_2C, FVC\_2D, FVC\_2E
- Description:** This variable indicates the usual number of times per day the respondent consumes fruit, excluding fruit juices.
- Introduced in:** CCHS - Cycle 1.1
- Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_2A = DK, R, NS) or (FVC_2B = DK, R, NS) or (FVC_2C = DK, R, NS) or (FVC_2D = DK, R, NS) or (FVC_2E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

FVC_2B	FVC_2A = 1	Number of times/day	
FVC_2C / 7	FVC_2A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_2D / 30	FVC_2A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_2E / 365	FVC_2A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_2A = 5	Never eats fruit	

### 3) Daily Consumption - Fruit Juice

**Variable name:** FVCDJUI

**Based on:** FVC\_1A, FVC\_1B, FVC\_1C, FVC\_1D, FVC\_1E

**Description:** This variable indicates the usual number of times per day the respondent drinks fruit juice.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The CCHS measures the number of times (frequency), not the amount consumed.

#### Specifications

Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_1A = DK, R, NS) or (FVC_1B = DK, R, NS) or (FVC_1C = DK, R, NS) or (FVC_1D = DK, R, NS) or (FVC_1E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_1B	FVC_1A = 1	Number of times/day	
FVC_1C / 7	FVC_1A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_1D / 30	FVC_1A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_1E / 365	FVC_1A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_1A = 5	Never drinks fruit juice	

### 4) Daily Consumption - Potatoes

**Variable name:** FVCDPOT

**Based on:** FVC\_4A, FVC\_4B, FVC\_4C, FVC\_4D, FVC\_4E

**Description:** This variable indicates the usual number of times per day the respondent consumes potatoes, excluding French fries, fried potatoes, or potato chips.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_4A = DK, R, NS) or (FVC_4B = DK, R, NS) or (FVC_4C = DK, R, NS) or (FVC_4D = DK, R, NS) or (FVC_4E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_4B	FVC_4A = 1	Number of times/day	
FVC_4C / 7	FVC_4A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_4D / 30	FVC_4A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_4E / 365	FVC_4A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_4A = 5	Never eats potatoes	

## 5) Daily Consumption - Green Salad

**Variable name:** FVCDSAL

**Based on:** FVC\_3A, FVC\_3B, FVC\_3C, FVC\_3D, FVC\_3E

**Description:** This variable indicates the usual number of times per day the respondent consumes green salad.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_3A = DK, R, NS) or (FVC_3B = DK, R, NS) or (FVC_3C = DK, R, NS) or (FVC_3D = DK, R, NS) or (FVC_3E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_3B	FVC_3A = 1	Number of times/day	
FVC_3C / 7	FVC_3A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_3D / 30	FVC_3A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_3E / 365	FVC_3A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_3A = 5	Never eats green salad	

## 6) Daily Consumption - Total Fruit and Vegetable

**Variable name:** FVCDTOT

**Based on:** FVCDJUI, FVCDFRU, FVCDLAL, FVCDPOT, FVCDLAL, FVCDLAL, FVCDLAL

**Description:** This variable indicates the total number of times per day the respondent eats fruits and vegetables.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	FVCDJUI = NS or FVCDFRU = NS or FVCDLAL = NS or FVCDPOT = NS or FVCDLAL = NS or FVCDLAL = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
FVCDJUI + FVCDFRU + FVCDLAL + FVCDPOT + FVCDLAL + FVCDLAL	(0 <= FVCDJUI <= 20) and (0 <= FVCDFRU <= 20) and (0 <= FVCDLAL <= 20) and (0 <= FVCDPOT <= 20) and (0 <= FVCDLAL <= 20) and (0 <= FVCDLAL <= 20)	Total number of times the respondent eats fruits and vegetables	(min : 0.0; max : 120.0)

## 7) Daily Consumption - Other Vegetables

**Variable name:** FVCDVEG

**Based on:** FVC\_6A, FVC\_6B, FVC\_6C, FVC\_6D, FVC\_6E

**Description:** This variable indicates the respondent's usual daily consumption of other vegetables, excluding carrots, potatoes, or salad. Respondents are asked to report in 'servings' rather than 'times' so that all different fruits or vegetables eaten at the same meal are counted. Servings should not be interpreted as referring to a specific quantity.

**Introduced in:** CCHS - Cycle 1.1

**Note:** In this question, the CCHS measures the number of servings, not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked -proxy interview	NS
999.9	(FVC_6A = DK, R, NS) or (FVC_6B = DK, R, NS) or (FVC_6C = DK, R, NS) or (FVC_6D = DK, R, NS) or (FVC_6E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_6B	FVC_6A = 1	Number of servings/day	
FVC_6C / 7	FVC_6A = 2	Number of servings/day (reported "servings per week")	(rounded to one decimal place)

FVC_6D / 30	FVC_6A = 3	Number of servings/day (reported "servings per month")	(rounded to one decimal place)
FVC_6E / 365	FVC_6A = 4	Number of servings/day (reported "servings per year")	(rounded to one decimal place)
0	FVC_6A = 5	Never eats other vegetables	

## 8 ) Grouping of Daily Consumption - Total Fruit and Vegetable

**Variable name:** FVCGTOT

**Based on:** FVCDTOT

**Description:** This variable classifies the respondent based on the total number of times per day he/she eats fruits and vegetables.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The CCHS measures the number of times (frequency), not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	FVCDTOT = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	FVCDTOT < 5	Eats fruits and vegetables less than 5 times per day.	
2	(5 <= FVCDTOT <= 10)	Eats fruits and vegetables between 5 and 10 times per day	
3	FVCDTOT > 10	Eats fruits and vegetables more than 10 times per day	



## General health (2 DVs)

### 1 ) Perceived Health

**Variable name:** GENDHDI

**Based on:** GEN\_01

**Description:** This variable indicates the respondent's health status based on his/her own judgement or his/her proxy. Higher scores indicate positive perceived health status.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Prior to 2007, this variable was named self-rated health.

#### Specifications

Value	Condition(s)	Description	Notes
9	(GEN_01 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	GEN_01 = 5	Poor	
1	GEN_01 = 4	Fair	
2	GEN_01 = 3	Good	
3	GEN_01 = 2	Very good	
4	GEN_01 = 1	Excellent	

### 2 ) Perceived Mental Health

**Variable name:** GENDMHI

**Based on:** GEN\_02B

**Description:** This variable indicates the respondent's mental health status based on his/her own judgement. Higher scores indicate positive perceived mental health status.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Prior to 2007, this variable was named self-rated mental health.

#### Specifications

Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(GEN_02B = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	GEN_02B = 5	Poor	
1	GEN_02B = 4	Fair	
2	GEN_02B = 3	Good	
3	GEN_02B = 2	Very good	
4	GEN_02B = 1	Excellent	



## Geography variables (20 DVs)

The March 2008 Postal Code Conversion File (PCCF) was used in the derivation of the geographic variables. All geographic variables use the geography from the 2006 Census except for GEODDA01 and GEODCMA1, which use the 2001 Census.

### 1) 2006 Census Division (CD)

**Variable name:** GEODCD

**Based on:** GEODDA06

**Description:** The Census Division refers to geographic areas established by provincial law, which are intermediate geographic areas between the census subdivision and the province (e.g., divisions, counties, regional districts, regional municipalities and seven other types of geographic areas made up of groups of census subdivisions). In Newfoundland and Labrador, Manitoba, Saskatchewan and Alberta, provincial law does not provide for these administrative geographic areas. Therefore, census divisions have been created by Statistics Canada in co-operation with these provinces. GEODCD is derived from GEODDA06 using the Postal Code Conversion File (PCCF).

**Introduced in:** CCHS - Cycle 1.1

### 2) 2001 Census Metropolitan Area (CMA)

**Variable name:** GEODCMA1

**Based on:** GEODPC

**Description:** Similar to GEODCMA6 but based on the geography from the 2001 Census. There were only 27 CMAs according to the 2001 Census (Moncton, Peterborough, Brantford, Guelph, Barrie and Kelowna were not CMAs in 2001).

**Introduced in:** CCHS - Cycle 4.1 - 2007

Specifications			
Value	Condition(s)	Description	Notes
000		No CMA assigned	
001		St. John's	
205		Halifax	
310		Saint John	
408		Saguenay	
421		Québec	
433		Sherbrooke	
442		Trois-Rivières	
462		Montréal	
505		Ottawa - Gatineau	
521		Kingston	
532		Oshawa	
535		Toronto	
537		Hamilton	
539		St. Catharines - Niagara	

541	Kitchener
555	London
559	Windsor
580	Greater Sudbury
595	Thunder Bay
602	Winnipeg
705	Regina
725	Saskatoon
825	Calgary
835	Edmonton
932	Abbotsford
933	Vancouver
935	Victoria

### 3) 2006 Census Metropolitan Area (CMA)

**Variable name:** GEODCMA6

**Based on:** GEODPC

**Description:** The general concept of a census metropolitan area (CMA) is one of a very large urban area, together with adjacent urban and rural areas which have a high degree of economic and social integration with that urban area. A CMA is delineated around an urban area (called the urbanized core and having a population of at least 100,000, based on the previous census). There are 33 CMAs according to the 2006 Census definition. When a postal code is not in a CMA, this variable is equal to 000.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** There are 2 variables on the final file for Census Metropolitan Area - 1 using the geography from the 2006 Census (GEODCMA6) and 1 using the geography from the 2001 Census (GEODCMA1).

Specifications			
Value	Condition(s)	Description	Notes
000		No CMA assigned	
001		St. John's	
205		Halifax	
305		Moncton	
310		Saint John	
408		Saguenay	
421		Québec	
433		Sherbrooke	
442		Trois-Rivières	
462		Montréal	
505		Ottawa - Gatineau	
521		Kingston	
529		Peterborough	

532	Oshawa
535	Toronto
537	Hamilton
539	St. Catharines - Niagara
541	Kitchener
543	Brantford
550	Guelph
555	London
559	Windsor
568	Barrie
580	Greater Sudbury / Grand Sudbury
595	Thunder Bay
602	Winnipeg
705	Regina
725	Saskatoon
825	Calgary
835	Edmonton
915	Kelowna
932	Abbotsford
933	Vancouver
935	Victoria

#### 4 ) 2006 Census Subdivision (CSD)

**Variable name:** GEODCSD

**Based on:** GEODDA06

**Description:** The Census Subdivision is the general term applied to municipalities (as determined by provincial legislation) or their equivalent, e.g., Indian reserves, Indian settlements and unorganized territories. In Newfoundland and Labrador, Nova Scotia and British Columbia, the term also describes geographic areas that have been created by Statistics Canada in co-operation with the provinces as equivalents for municipalities. GEODCSD is derived from GEODDA06 using the Postal Code Conversion File (PCCF).

**Introduced in:** CCHS - Cycle 1.1

#### 5 ) 2001 Census Dissemination Area (DA)

**Variable name:** GEODDA01

**Based on:** GEODPC

**Description:** Similar to GEODDA06 but based on the geography from the 2001 Census.

**Introduced in:** CCHS - Cycle 4.1 - 2007

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## 6) 2006 Census Dissemination Area (DA)

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**Variable name:** GEODDA06

**Based on:** GEODPC

**Description:** The dissemination area (DA) is a small, relatively stable geographic unit composed of one or more dissemination blocks. It is the smallest standard geographic area for which all census data are disseminated. DAs cover all the territory of Canada. Using GEODPC, GEODDA06 is derived using the Postal Code Conversion File (PCCF), which provides a correspondence between the six character postal code and Statistics Canada's standard geographical areas for which census data and other statistics are produced. It is composed of the two digit province/territory code, the two digit census division code and the four digit dissemination area code. When the postal code corresponds to more than one DA, the case is assigned using the "most probable DA approach". GEODDA06 is based on the geography from the 2006 Census.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** There are 2 variables on the final file for Dissemination Area - 1 using the geography from the 2006 Census (GEODDA06) and 1 using the geography from the 2001 Census (GEODDA01).

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## 7) 2006 Census Federal Electoral District (FED)

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**Variable name:** GEODFED

**Based on:** GEODDA06

**Description:** A federal electoral district refers to any place or territorial area entitled to elect a representative member to serve in the House of Commons (Source: Canada Elections Act, 1990). There are 308 FEDs in Canada, and the FEDs used for the 2006 Census are based on the 2003 Representation Order. The first two digits identify the province or territory.

**Introduced in:** CCHS - Cycle 1.1

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## 8) Health Region

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**Variable name:** GEODHR4

**Based on:** GEODPC

**Description:** This variable is a 4-digit number that identifies the health region. Health regions refer to health administrative areas defined by the provincial ministries of health. For complete Canadian coverage, each of the northern territories represents its own health region. This variable is derived using the information available on the survey frame at the time of sampling and the geographic information provided by the respondent. The health regions for 2008 are based on the dissemination areas from the 2006 Census.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The values for GEODHR4 (Health Region) for Alberta match the code set that is used by the province of Alberta (4821-4829). The code set used during sampling was changed on the final file to accommodate this request from Alberta. The peer groups also reflect the health region code set used by Alberta.

More details on health regions can be found in the "Health regions and peer groups" section of the online publication "Health Indicators", Statistics Canada, catalogue number 82-221-XIE. Correspondence files (linking health regions to latest census geographic codes) and digital boundary files are also available in the online publication "Health regions: Boundaries and Correspondence with Census Geography", Statistics Canada, catalogue number 82-402-XWE.

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## 9) British Columbia Local Health Authority (LHA)

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<b>Variable name:</b>	GEODLHA
<b>Based on:</b>	GEODPC
<b>Description:</b>	This variable is a 3-digit number that identifies the Local Health Authority (LHA) regions in the province of British Columbia. It is equal to 996 (for not applicable) anywhere else. The LHAs are sub-regions of the health regions in British Columbia. This variable is derived using the information available on the survey frame at the time of sampling and the geographic information provided by the respondent. The LHAs for 2008 are based on the dissemination areas from the 2006 census.
<b>Introduced in:</b>	CCHS - Cycle 4.1 - 2008

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## 10) Ontario Local Health Integration Network

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<b>Variable name:</b>	GEODLHN
<b>Based on:</b>	GEOPRV, GEODPC
<b>Description:</b>	This variable is a 4-digit number that identifies the sub-provincial health areas of Ontario. It is equal to 9996 everywhere outside Ontario. Data in Ontario are provided for two levels of geography: Public Health Units (PHU) and the Local Health Integration Networks (LHIN). The 2008 LHINs are based on the geography from the 2006 Census.
<b>Introduced in:</b>	CCHS - Cycle 3.1

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## 11) Postal Code

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<b>Variable name:</b>	GEODPC
<b>Based on:</b>	Respondent address information
<b>Description:</b>	The Canadian postal code offers a unique reference system which provides a means of identifying a mail delivery location. It is composed of six alpha-numeric characters, in the form of "ANA NAN", where "A" represents a letter of the alphabet and "N" a number. The first character of a postal code (allocated in alphabetic sequence from east to west across Canada) represents a province or territory or a major sector entirely within a province. GEODPC is derived from the respondents available address information.
<b>Introduced in:</b>	CCHS - Cycle 1.1

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## 12) Health region - Grouped

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<b>Variable name:</b>	GEODPMF
<b>Based on:</b>	GEODHR4
<b>Description:</b>	This variable is a 5-digit number that identifies the sub-provincial health areas. It is based on the 4-digit health regions specified by the Provincial Ministries of Health. This reconstruction is as follows: <ul style="list-style-type: none"> <li>- positions 1-2 (first two positions of GEODHR4);</li> <li>- position 3 (value of "9");</li> <li>- positions 4-5 (3rd, 4th position of GEODHR4).</li> </ul>
<b>Introduced in:</b>	CCHS - Cycle 1.1

**Note:** The variable GEODHR4 is the health region based on GEODPC (postal code) and is derived using the information available on the survey frame at the time of sampling and the geographic information provided by the respondent. GEODHR4 and GEODPC are not included in the Public Use Microdata File.

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
10913	(GEODHR4 = 1013, 1014)	Group: Western Regional Integrated Health Authority Labrador-Grenfell Integrated Health Authority	
11901	(GEODHR4 = 1101, 1102, 1103)	Group: Prince Health Region Kings Health Region Queens Health Region	
13904	(GEODHR4 = 1304, 1305)	Group: Region 4 Region 5	
13905	(GEODHR4 = 1306, 1307)	Group: Region 6 Region 7	
35939	(GEODHR4 = 3539, 3554)	Group: Huron County Health Unit Perth District Health Unit	
35947	(GEODHR4 = 3547, 3563)	Group: North Bay Parry Sound District Health Unit Timiskaming Health Unit	
46915	(GEODHR4 = 4615, 4645)	Group: Brandon Regional Health Authority Assiniboine Regional Health Authority	
46920	(GEODHR4 = 4620, 4625)	Group: North Eastman Regional Health Authority South Eastman Regional Health Authority	
46960	(GEODHR4 = 4660, 4670, 4680)	Group: Parkland Regional Health Authority Norman Regional Health Authority Burntwood Regional Health Authority/Churchill Regional Health Authority	
47901	(GEODHR4 = 4701, 4702, 4703)	Group: Sun Country Regional Health Authority Five Hills Regional Health Authority Cypress Regional Health Authority	
47905	(GEODHR4 = 4705, 4708)	Group: Sunrise Regional Health Authority Kelsey trail Regional Health Authority	
47907	(GEODHR4 = 4707, 4710)	Group: Heartland Regional Health Authority Prairie North Regional Health Authority	
47909	(GEODHR4 = 4709, 4714)	Group: Prince Albert Parkland Regional Health Authority Mamawetan Churchill River RHA/Keewatin Yatthe RHA/Athabasca Health Authority	
60901	(GEODHR4 = 6001, 6101, 6201)	Group: Yukon Northwest Territories Nunavut	



**13) Peer Group****Variable name:** GEODPRG**Based on:** GEODHR4**Description:** The 123 health regions have been classified into 9 like clusters or "peer groups", for the purposes of meaningful analysis in comparing like regions across the country.**Introduced in:** CCHS - Cycle 1.1

**Note:** The breakdown of the Health Regions into Peer Groups has changed slightly for 2008. In November 2005, Prince Edward Island (PEI) officially disbanded their four health regions. The three existing counties (census divisions) provided an alternative set of boundaries to retain relevant sub-provincial CCHS data, commencing June 2008. Although these 3 counties have the same code as previous health regions (1101, 1102 and 1103) the 3 counties have a different geography than the previous health regions. Therefore comparison at the sub-provincial level between 2008 and previous years is not possible in PEI. In terms of peer groups, health region 1101 was moved from peer group I to D, 1102 was moved from C to A and 1103 from A to C. Health region 1104 no longer exists and was removed from peer group D.

Specifications			
Value	Condition(s)	Description	Notes
1	GEODHR4= 1102, 1206, 2403, 2407, 2413, 2416, 3527, 3537, 3538, 3540, 3541, 3542, 3544, 3546, 3555, 4610, 4615, 4704, 4706, 5913, 5921, 5941, 5942	Health Region Peer Group A: Urban-rural mix from coast to coast Average percentage of Aboriginal population Low male population Slow population growth from 1996-2001	
2	GEODHR4= 3530, 3536, 3551, 3553, 3565, 3566, 3568, 3570, 4823, 4826, 5922, 5923, 5931, 5933	Health Region Peer Group B: Mainly urban centres with moderately high population density Low percentage of government transfer income	
3	GEODHR4= 1011, 1103, 1201, 1202, 1203, 1204, 1301, 1302, 1303, 1304, 2401, 2402, 2404, 2405, 2408, 3526, 3547, 3561, 3562, 3563, 4709, 5912, 5914, 5943	Health Region Peer Group C: Sparsely populated urban-rural mix from coast to coast Average percentage of Aboriginal population Negative population growth	
4	GEODHR4= 1101, 4640, 4645, 4660, 4701, 4702, 4703, 4705, 4707, 4708	Health Region Peer Group D: Rural regions mainly in the central Prairies Moderate Aboriginal population Moderately high percentage of government transfer income Almost equal numbers of men and women Negative population growth	
5	GEODHR4= 2412, 2414, 2415, 3531, 3533, 3534, 3535, 3539, 3543, 3552, 3554, 3557, 3558, 3560, 4620, 4625, 4630, 4821, 4822, 4824, 4825, 4827, 4828, 5911	Health Region Peer Group E: Mainly rural regions in Quebec, Ontario and the Prairies High proportion of people recently moved to or within these regions since 1996 Average percentage of Aboriginal population Moderate population growth	
6	GEODHR4= 2417, 2418, 4685, 4714, 6201	Health Region Peer Group F: Northern and remote regions Very high Aboriginal population Moderately high percentage of government transfer income Slightly higher male population Moderate population growth	
7	GEODHR4= 2406, 3595, 5932	Health Region Peer Group G: Largest metro centres with an average population density of 3,934 people per square kilometre Low Aboriginal population Moderate percentage of government transfer income	

8	GEODHR4= 1014, 2409, 2410, 3549, 3556, 4670, 4710, 4829, 5951, 5952, 5953, 6001, 6101	Health Region Peer Group H: Rural northern regions High Aboriginal population High male population Negative population growth
9	GEODHR4= 1012, 1013, 1205, 1305, 1306, 1307, 2411	Health Region Peer Group I: Mainly rural Eastern regions Very high percentage of government transfer income Negative population growth Low percentage of people having moved to or within these regions since 1996

Reference: A more detailed discussion on the rationale and methods involved in the development of peer groups is available in the following publications: Health Region (2000) Peer Groups Working Paper (PDF) and Health Region (2003) Peer Groups Working Paper (PDF) these can be viewed in the "Health regions" section of the online publication "Health Indicators", Statistics Canada catalogue number 82-221-XIE.

## 14) Population Size Group

**Variable name:** GEODPSZ

**Based on:** GEODPC, GEODCMA6, GEODUR

**Description:** This derived variable is used in the calculation of adjusted household income ratios (INCDADR). It identifies whether the respondent lives in an urban or rural area and classifies the respondent according to the population size of the urban area (or Census Metropolitan Area, CMA). In order to properly classify units into rural and urban groups and identify units belonging to CMAs, the postal code (GEODPC) is linked to the information on the most recent Postal Code Conversion File (PCCF). Population counts for these areas are determined by linking to the information available from GEOSUITE. The combined information is then used to code GEODPSZ.

**Introduced in:** CCHS - Cycle 4.1 - 2007

Specifications			
Value	Condition(s)	Description	Notes
1	GEODUR=0	Rural Area	
2	Population size of the urban area (or CMA) < 30,000	Urban Area Less than 30,000 people	
3	30,000 <= Population size of the urban area (or CMA) < 100,000	Urban Area 30,000 to 99,999 people	
4	100,000 <= Population size of the urban area (or CMA) < 500,000	Urban Area 100,000 to 499,999 people	
5	Population size of the urban area (or CMA) >= 500,000	Urban Area 500,000 people or more	

## 15) Statistical Area Classification Type (SAT)

**Variable name:** GEODSAT

**Based on:** GEODCSD

**Description:** The Statistical Area Classification (SAC) groups census subdivisions (CSDs) according to whether they are a component of a census metropolitan area (CMA), a census agglomeration (CA), a census metropolitan area and census agglomeration influenced zone (strong MIZ, moderate MIZ, weak MIZ or no MIZ), or the territories (Northwest Territories, Yukon and Nunavut). A SAC code type is assigned to each CSD. The SAC is used for data dissemination purposes.

**Introduced in:** CCHS - Cycle 2.1

Specifications				
Value	Condition(s)	Description	Notes	
1		CMA		
2		Tracted CA		
3		Non-tracted CA		
4		Strongly Influenced (zone)		
5		Moderately Influenced (zone)		
6		Weakly Influenced (zone)		
7		Not Influenced (zone)		
8		Territories		

## 16) Quebec Sub-Health Region

**Variable name:** GEODSHR

**Based on:** GEODPC

**Description:** This variable is a 6-digit number that identifies the sub-health health region within the 2 health regions (2403, 2415) in Quebec for whom additional sample was added on a cost-recovery basis. It is equal to 999996 (for not applicable) anywhere else. This variable is derived using the information available on the survey frame at the time of sampling and the geographic information provided by the respondent. The sub-health regions for 2008 are based on the dissemination areas from the 2006 census.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Only available in the CCHS Quebec sample buy-in files (2007-2008).

## 17) Urban-Rural Classification

**Variable name:** GEODUR

**Based on:** GEODPC

**Description:** This variable identifies whether the respondent lives in an urban or rural area. Urban areas are those continuously built-up areas having a population concentration of 1,000 or more and a population density of 400 or more per square kilometre based on current census population counts. In CCHS Cycle 3.1, this variable was named GEODUR7 as there were 7 possible values in the code set. It has been replaced by GEODUR because the code set of the variable it is based on has changed and there are no longer 7 possible values for the variable.

**Introduced in:** CCHS - Cycle 4.1 - 2007

Specifications				
Value	Condition(s)	Description	Notes	
0		Rural		
1		Urban core		
2		Urban fringe		
4		Urban area outside CMAs and Cas		

6	Secondary urban core
9	Mix of urban / rural areas

## 18) Urban-Rural Classification - Grouped

**Variable name:** GEODUR2

**Based on:** GEODUR

**Description:** This variable is a grouping of GEODUR into 2 categories. Units with GEODUR=9 were placed into rural or urban depending on the composition of the blocks within the dissemination areas.

**Introduced in:** CCHS - Cycle 1.1

**Note:** GEODUR2 remains a dichotomous variable (urban or rural) and is still based on GEODUR. The units with GEODUR=9 were placed into urban or rural depending on the composition of the dissemination blocks within the dissemination area.

Specifications			
Value	Condition(s)	Description	Notes
1	GEODUR= 1,2,4 or 6 and sometimes 9	Urban	
2	GEODUR= 0 and sometimes 9	Rural	

## 19) Province of residence of respondent - (G)

**Variable name:** GEOGPRV

**Based on:** GEO\_PRV

**Description:** This is the respondent's province of residence.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
GEO_PRV	GEO_PRV=<59	Province of residence of respondent.	
60	60=<GEO_PRV=<62	Yukon/Northwest/Nunavut Territories	

## Health care utilization (17 DVs)

### 1 ) Number of Consultations with Medical Doctor/Paediatrician

<b>Variable name:</b>	HCUDMDC
<b>Based on:</b>	HCU_02A, HCU_02C
<b>Description:</b>	This variable indicates the number of times respondents have seen or talked to a family doctor or a specialist in the last 12 months.
<b>Introduced in:</b>	CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
999	(HCU_02A = DK, R, NS) or (HCU_02C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02A + HCU_02C	(0 <= HCU_02A <= 366) and (0 <= HCU_02C <= 300)	Number of consultations with medical doctor	(min: 0; max: 666)

### 2 ) Consultations with Health Professional

<b>Variable name:</b>	HCUFCOP
<b>Based on:</b>	HCU_02A, HCU_02B, HCU_02C, HCU_02D, HCU_02E, HCU_02F, HCU_02G, HCU_02H, HCU_02I, HCU_02J
<b>Description:</b>	This variable indicates whether respondents saw or talked to at least 1 health professional in the last 12 months.
<b>Introduced in:</b>	CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
2	HCU_02A = 0 and HCU_02B = 0 and HCU_02C = 0 and HCU_02D = 0 and HCU_02E = 0 and HCU_02F = 0 and HCU_02G = 0 and HCU_02H = 0 and HCU_02I = 0 and HCU_02J = 0	Did not consult a health professional last year	
1	(0 < HCU_02A < NA) or (0 < HCU_02B < NA) or (0 < HCU_02C < NA) or (0 < HCU_02D < NA) or (0 < HCU_02E < NA) or (0 < HCU_02F < NA) or (0 < HCU_02G < NA) or (0 < HCU_02H < NA) or (0 < HCU_02I < NA) or (0 < HCU_02J < NA)	Consulted a health professional at least once last year	

9	(HCU_02A = DK, R, NS) or (HCU_02B = DK, R, NS) or (HCU_02C = DK, R, NS) or (HCU_02D = DK, R, NS) or (HCU_02E = DK, R, NS) or (HCU_02F = DK, R, NS) or (HCU_02G = DK, R, NS) or (HCU_02H = DK, R, NS) or (HCU_02I = DK, R, NS) or (HCU_02J = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
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### 3) Number of nights as patient

**Variable name:** HCU01A

**Based on:** HCU\_01A

**Description:** The number of nights as patient.

**Introduced in:** CCHS - Cycle 1.1

**Note:** In processing, if a respondent answered HCU\_01 = 2 (no), the variable HCU\_01A is given the value of 0. The "not stated" category includes respondents who reported in HCU module not having been a patient overnight in a hospital, nursing home or convalescent home in the past 12 months and who reported in INJ module having been admitted to a hospital for one night following an injury that occurred in the past 12 months.

Specifications			
Value	Condition(s)	Description	Notes
31	HCU_01A > 30	31 or more	
HCU_01A	1 <= HCU_01A <= 30	HCU_01A	

### 4) Number of consultations - fam. doctor/gen. practitioner -(G)

**Variable name:** HCU02A

**Based on:** HCU\_02A

**Description:** This variable indicates the number of consultations with a family doctor/general practitioner in the past 12 months.

**Introduced in:** CCHS- Cycle 1.1

**Note:** For respondents aged less than 18, includes consultations with pediatricians.

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02A = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02A	HCU_02A	Number of consultations with a family doctor/general practitioner	
31	31 <= HCU_02A	Number of consultations with a family doctor/general practitioner	

**5) Number of consultations - eye specialist - (G)**

**Variable name:** HCUG02B

**Based on:** HCU\_02B

**Description:** This variable indicates the number of consultations with an eye specialist in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02B = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02B	HCU_02B	Number of consultations with an eye specialist	
12	12=<HCU_02B	Number of consultations with an eye specialist	

**6) Number of consultations - other medical doctor - (G)**

**Variable name:** HCUG02C

**Based on:** HCU\_02C

**Description:** This variable indicates the number of consultations with any other medical doctor (such as surgeon, allergist, orthopedist, gynaecologist, or psychiatrist) in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02C = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02C	HCU_02C	Number of consultations with any other medical doctor (such as surgeon, allergist, orthopedist, gynaecologist, or psychiatrist)	
12	12=<HCU_02C	Number of consultations with any other medical doctor (such as surgeon, allergist, orthopedist, gynaecologist, or psychiatrist)	

**7) Number of consultations - nurse - (G)**

**Variable name:** HCUG02D

**Based on:** HCU\_02D

**Description:** This variable indicates the number of consultations with a nurse in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02D = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02D	HCU_02D	Number of consultations with a nurse	
12	12=<HCU_02D	Number of consultations with a nurse	

## 8) Number of consultations - dentist or orthodontist - (G)

**Variable name:** HCUG02E

**Based on:** HCU\_02E

**Description:** This variable indicates the number of consultations with a dentist or orthodontist in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02E = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02E	HCU_02E	Number of consultations with a dentist or orthodontist	
12	12=<HCU_02E	Number of consultations with a dentist or orthodontist	

## 9) Number of consultations - chiropractor - (G)

**Variable name:** HCUG02F

**Based on:** HCU\_02F

**Description:** This variable indicates the number of consultations with a chiropractor in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02F = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02F	HCU_02F	Number of consultations with a chiropractor	
31	31=<HCU_02F	Number of consultations with a chiropractor	

## 10) Number of consultations - physiotherapist - (G)



**Variable name:** HCUG02G  
**Based on:** HCU\_02G  
**Description:** This variable indicates the number of consultations with a physiotherapist in the past 12 months.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02G = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02G	HCU_02G	Number of consultations with a physiotherapist	
31	31=<HCU_02G	Number of consultations with a physiotherapist	

### 11 ) Number of consultations - social worker or counsellor - (G)

**Variable name:** HCUG02H  
**Based on:** HCU\_02H  
**Description:** This variable indicates the number of consultations with a social worker or counsellor in the past 12 months.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02H = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02H	HCU_02H	Number of consultations with a social worker or counsellor	
12	12=<HCU_02H	Number of consultations with a social worker or counsellor	

### 12 ) Number of consultations - psychologist - (G)

**Variable name:** HCUG02I  
**Based on:** HCU\_02I  
**Description:** This variable indicates the number of consultations with a psychologist in the past 12 months.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02I = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS

HCU_02I	HCU_02I	Number of consultations with a psychologist
12	12=<HCU_02I	Number of consultations with a psychologist

### 13) No. of consultations - speech/audiology/occ. therapist - (G)

**Variable name:** HCU02J

**Based on:** HCU\_02J

**Description:** This variable indicates the number of consultations with a speech, audiology or occupational therapist in the past 12 months.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	HCU_02J = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02J	HCU_02J	Number of consultations with a speech, audiology or occupational therapist	
12	12=<HCU_02J	Number of consultations with a speech, audiology or occupational therapist	

### 14) Location of most recent contact - family doctor - (G)

**Variable name:** HCU03A

**Based on:** HCU\_03A

**Description:** This variable groups the location of the respondent's most recent contact with a family doctor.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HCU_03A = 96	Population exclusions	NA
99	HCU_03A = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HCU_03A = 1	The most recent contact with a family doctor took place at the doctor's office.	
2	HCU_03A = 2	The most recent contact with a family doctor took place at a hospital emergency room.	
3	HCU_03A = 3	The most recent contact with a family doctor took place at a hospital outpatient clinic.	
4	HCU_03A = 4	The most recent contact with a family doctor took place at a walk-in clinic.	
5	HCU_03A = 5	The most recent contact with a family doctor took place at an appointment clinic.	

6	HCU_03A = 6	The most recent contact with a family doctor took place at a community health centre/CLSC.
7	HCU_03A = 7, 8, ou 11	The most recent contact with a family doctor took place at work/at school/other.
8	HCU_03A = 9	The most recent contact with a family doctor took place at home.
9	HCU_03A = 10	The most recent contact with a family doctor took place as a telephone consultation only.

## 15) Location of most recent contact - other medical doctor - (G)

**Variable name:** HCU03C

**Based on:** HCU\_03C

**Description:** This variable groups the location of the respondent's most recent contact with - other medical doctor.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HCU_03C = 96	Population exclusions	NA
99	HCU_03C = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HCU_03C = 1	The most recent contact with the other medical doctor took place at the doctor's office.	
2	HCU_03C = 2	The most recent contact with the other medical doctor took place at a hospital emergency room.	
3	HCU_03C = 3	The most recent contact with the other medical doctor took place at a hospital outpatient clinic.	
4	HCU_03C = 4	The most recent contact with the other medical doctor took place at a walk-in clinic.	
5	HCU_03C = 5	The most recent contact with the other medical doctor took place at an appointment clinic.	
6	HCU_03C = 6	The most recent contact with the other medical doctor took place at a community health centre/CLSC.	
7	HCU_03C = 7, 8, ou 11	The most recent contact with the other medical doctor took place at work/at school/other.	
8	HCU_03C = 9	The most recent contact with the other medical doctor took place at home.	
9	HCU_03C = 10	The most recent contact with the other medical doctor took place as a telephone consultation only.	

## 16) Location of most recent contact - nurse - (G)

**Variable name:** HCU03D

**Based on:** HCU\_03D

**Description:** This variable groups the location of the respondent's most recent contact with a nurse.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HCU_03D = 96	Population exclusions	NA
99	HCU_03D = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HCU_03D = 1	The most recent contact with a nurse took place at the doctor's office.	
2	HCU_03D = 2	The most recent contact with a nurse took place at a hospital emergency room.	
3	HCU_03D = 3	The most recent contact with a nurse took place at a hospital outpatient clinic.	
4	HCU_03D = 4	The most recent contact with a nurse took place at a walk-in clinic.	
5	HCU_03D = 5	The most recent contact with a nurse took place at an appointment clinic.	
6	HCU_03D = 6	The most recent contact with a nurse took place at a community health centre/CLSC.	
7	HCU_03D = 7, 8, ou 11	The most recent contact with a nurse took place at work/at school/other.	
8	HCU_03D = 9	The most recent contact with a nurse took place at home.	
9	HCU_03D = 10	The most recent contact with a nurse took place as a telephone consultation only.	

## 17) Number of Consultations with Medical Doctor/Paediatrician - Grouped

**Variable name:** HCUGMDC

**Based on:** HCU\_02A, HCU\_02C

**Description:** This variable indicates the number of respondent's consultations, including over the phone, with medical doctor in the last 12 months.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable has been grouped according to "less than 31 Consultations" and "31 or more".

Specifications			
Value	Condition(s)	Description	Notes
999	(HCU_02A = DK, R, NS) or (HCU_02C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
HCU_02A + HCU_02C	(0 <= HCU_02A <= 366) and (0 <= HCU_02C <= 300)	Number of consultations with medical doctor. 31 or more consultations are grouped together.	(min: 0; max: 666)

## Home care services (1 DV)

### 1 ) Received Home Care

**Variable name:** HMCFRHC

**Based on:** HMC\_09, HMC\_11

**Description:** This variable indicates whether the respondent received some form of home care service (whether the cost of the service was covered or not by government) in the past 12 months.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents less than 18 years old were excluded from the population.

#### Specifications

Value	Condition(s)	Description	Notes
6	HMCFOPT = 2	Module not selected	NA
6	DHH_AGE < 18	Population exclusions	NA
2	HMC_09 = 2 and HMC_11 = 2	Did not receive home care in past 12 months	
1	HMC_09 = 1 or HMC_11 = 1	Received some home care in past 12 months	
9	(HMC_09 = DK, R, NS) or (HMC_11 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Health utilities index (13 DVs)

The Health Utilities Index (HUI) is a multi-attribute health status classification system for measuring generic health status and health-related quality of life. The version used by CCHS has been adapted from the HUI Mark 3 (HUI3) for NPHS. The questions are slightly different than the original HUI3 developed at McMaster University. This instrument allows the calculation of a generic health status index based on attributes found in two different CCHS modules - the Health utilities index (HUI) and Health utilities index - Pain and discomfort (HUP). For more information see "Feeny D, Furlong W, Torrance GW et al. Multi-attribute and single-attribute utility functions for the Health Utilities Index Mark 3 system. *Med Care* 2002; 40: 113-128."

### 1 ) Cognition (Function Code)

<b>Variable name:</b>	HUIDCOG
<b>Based on:</b>	HUI_26, HUI_27
<b>Description:</b>	This variable classifies respondents based on cognitive health status.
<b>Introduced in:</b>	CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
1	HUI_26 = 1 and HUI_27 = 1	Able to remember most things, think clearly and solve day to day problems	
2	(HUI_26 = 1 and HUI_27 = 2) or (HUI_26 = 1 and HUI_27 = 3)	Able to remember most things, but have a little difficulty when trying to think and solve day to day problems	
3	HUI_26 = 2 and HUI_27 = 1	Somewhat forgetful, but able to think clearly and solve day to day problems	
4	(HUI_26 = 2 and HUI_27 = 2) or (HUI_26 = 2 and HUI_27 = 3)	Somewhat forgetful, and have a little difficulty when trying to think or solve day to day problems	
5	(HUI_26 = 1 and HUI_27 = 4) or (HUI_26 = 2 and HUI_27 = 4) or (HUI_26 = 3 and HUI_27 = 1) or (HUI_26 = 3 and HUI_27 = 2) or (HUI_26 = 3 and HUI_27 = 3) or (HUI_26 = 3 and HUI_27 = 4)	Very forgetful, and have great difficulty when trying to think or solve day to day problems	

6	(HUI_26 = 1 and HUI_27 = 5) or (HUI_26 = 2 and HUI_27 = 5) or (HUI_26 = 3 and HUI_27 = 5) or (HUI_26 = 4 and HUI_27 = 1) or (HUI_26 = 4 and HUI_27 = 2) or (HUI_26 = 4 and HUI_27 = 3) or (HUI_26 = 4 and HUI_27 = 4) or (HUI_26 = 4 and HUI_27 = 5)	Unable to remember anything at all, and unable to think or solve day to day problems	
99	(HUI_26 = DK, R, NS) or (HUI_27 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 2) Dexterity (Function Code)

**Variable name:** HUIDDEX

**Based on:** HUI\_21, HUI\_22, HUI\_23, HUI\_24

**Description:** This variable classifies respondents based on dexterity health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
1	HUI_21 = 1 and HUI_22 = 6 and HUI_23 = 6 and HUI_24 = 6	Full use of two hands and ten fingers	
2	HUI_21 = 2 and HUI_22 = 2 and HUI_23 = 6 and HUI_24 = 2	Limitations in the use of hands or fingers, but does not require special tools or help of another person	
3	HUI_21 = 2 and HUI_22 = 2 and HUI_23 = 6 and HUI_24 = 1	Limitations in the use of hands or fingers, is independent with use of special tools (does not require the help of another person)	
4	(HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 1 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 1 and HUI_24 = 2)	Limitations in the use of hands or fingers, requires the help of another person for some tasks (not independent even with use of special tools)	

5	(HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 2 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 2 and HUI_24 = 2) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 3 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 3 and HUI_24 = 2)	Limitations in use of hands or fingers, requires the help of another person for most tasks (not independent even with use of special tools)	
6	(HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 4 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 4 and HUI_24 = 2)	Limitations in use of hands or fingers, requires the help of another person for all tasks (not independent even with use of special tools)	
99	(HUI_21 = DK, R, NS) or (HUI_22 = DK, R, NS) or (HUI_23 = DK, R, NS) or (HUI_24 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 3) Emotion (Function Code)

**Variable name:** HUIDEMO

**Based on:** HUI\_25

**Description:** This variable classifies respondents based on emotional health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	HUIFOPT = 2	Module not selected	NA
1	HUI_25 = 1	Happy and interested in life	
2	HUI_25 = 2	Somewhat happy	
3	HUI_25 = 3	Somewhat unhappy	
4	HUI_25 = 4	Very unhappy	
5	HUI_25 = 5	So unhappy that life is not worthwhile	
9	(HUI_25 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS



#### 4 ) Hearing (Function Code)

**Variable name:** HUIDHER

**Based on:** HUI\_06, HUI\_07, HUI\_07A, HUI\_08, HUI\_09

**Description:** This variable classifies respondents based on hearing health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
1	HUI_06 = 1 and HUI_07 = NA and HUI_07A = NA and HUI_08 = NA and HUI_09 = NA	Able to hear what is said in a group conversation with at least three other people, without a hearing aid	
2	HUI_06 = 2 and HUI_07 = 1 and HUI_07A = NA and HUI_08 = 1 and HUI_09 = NA	Able to hear what is said in a conversation with one other person in a quiet room without a hearing aid, but requires a hearing aid to hear what is said in a group conversation with at least three other people	
3	(HUI_06 = 2 and HUI_07 = 1 and HUI_07A = NA and HUI_08 = 2 and HUI_09 = 1) or (HUI_06 = 2 and HUI_07 = 1 and HUI_07A = NA and HUI_08 = 2 and HUI_09 = 2)	Able to hear what is said in a conversation with one other person in a quiet room with a hearing aid, and able to hear what is said in a group conversation with at least three other people, with a hearing aid	
4	HUI_06 = 2 and HUI_07 = 2 and HUI_07A = 1 and HUI_08 = 1 and HUI_09 = NA	Able to hear what is said in a conversation with one other person in a quiet room, without a hearing aid, but unable to hear what is said in a group conversation with at least three other people even with a hearing aid	
5	HUI_06 = 2 and HUI_07 = 2 and HUI_07A = 1 and HUI_08 = 2 and HUI_09 = 1	Able to hear what is said in a conversation with one other person in a quiet room with a hearing aid, but unable to hear what is said in a group conversation with at least three other people even with a hearing aid	
6	(HUI_06 = 2 and HUI_07 = 2 and HUI_07A = 1 and HUI_08 = 2 and HUI_09 = 2) or (HUI_06 = 2 and HUI_07 = 2 and HUI_07A = 2 and HUI_08 = NA and HUI_09 = NA)	Unable to hear at all	
99	(HUI_06 = DK, R, NS) or (HUI_07 = DK, R, NS) or (HUI_07A = DK, R, NS) or (HUI_08 = DK, R, NS) or (HUI_09 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 5) Health Utility Index

**Variable name:** HUIDHSI

**Based on:** HUIDVIS, HUIDHER, HUIDSPE, HUIDMOB, HUIDDEX, HUIDEMO, HUIDCOG, HUPDPAD

**Description:** This derived variable is a Health Utilities Index which provides a description of an individual's overall functional health, based on eight attributes: vision, hearing, speech, ambulation (ability to get around), dexterity (use of hands and fingers), emotion (feelings), cognition (memory and thinking) and pain. The version of the index used in CCHS is adapted from the HUI Mark 3 (HUI3). The index is designed to produce both an overall health utility score and eight individual attribute scores. Analysts can use either a single-attribute utility scale or look at the complete health state (levels on all eight attributes) on the overall utility scale to produce a measure of an individual's perceived HRQL.

The index is appropriate for use to describe and monitor the health of general populations, and has been extensively validated for use in cross-sectional and longitudinal population health studies.

The 8 single-attribute utility scores measure functional capacity within a single attribute, and range from 1.00 (normal) to 0.00 (most disabled). In combination, these scores are used to produce a multi-attribute utility index producing a score ranging from 1.00 (perfect health), through 0.00 (health status equal to death) to -0.36 (health status worse than death).

**Introduced in:** CCHS - Cycle 1.1

**Note:** HUI3 question content resides in the public domain, and is not subject to copyright restrictions. The HUI3 algorithm is the property of Health Utilities Inc. and is protected by copyright. Statistics Canada is authorized, when requested, to share this algorithm with users who wish to replicate results or analyses conducted by Statistics Canada. The use of the algorithm for other purposes, or the sharing of it with others, is prohibited.

Higher scale indicates better health index  
Range: -0.360 to 1 in increments of 0.001

Reference: For a detailed explanation of the calculation of the HUI3 refer to:

- Feeny D, Furlong W, Torrance GW et al. Multiattribute and single-attribute utility functions for the Health Utilities Index Mark 3 system. *Med Care* 2002; 40: 113-128.

## 6) Ambulation (mobility) (Function Code)

**Variable name:** HUIDMOB

**Based on:** HUI\_14, HUI\_15, HUI\_16, HUI\_17, HUI\_18

**Description:** This variable classifies respondents based on ambulation (mobility) health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
1	HUI_14 = 1 and HUI_15 = NA and HUI_16 = NA and HUI_17 = NA and HUI_18 = NA	Able to walk around the neighbourhood without difficulty, and without walking equipment	
2	HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 2 and HUI_18 = 2	Able to walk around the neighbourhood with difficulty; but does not require walking equipment or the help of another person	

3	HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 2 and HUI_18 = 2	Able to walk around the neighbourhood with walking equipment, but without the help of another person	
4	(HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 2 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 2 and HUI_18 = 1)	Able to walk only short distances with walking equipment, and requires a wheelchair to get around the neighbourhood	
5	(HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 1 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 1 and HUI_18 = 2) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 1 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 1 and HUI_18 = 2)	Unable to walk alone, even with walking equipment. Able to walk short distances with the help of another person, and requires a wheelchair to get around the neighbourhood	
6	(HUI_14 = 2 and HUI_15 = 2 and HUI_16 = NA and HUI_17 = NA and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 2 and HUI_16 = NA and HUI_17 = NA and HUI_18 = 2)	Cannot walk at all	
99	(HUI_14 = DK, R, NS) or (HUI_15 = DK, R, NS) or (HUI_16 = DK, R, NS) or (HUI_17 = DK, R, NS) or (HUI_18 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 7) Speech (Function Code)

**Variable name:** HUIDSPE

**Based on:** HUI\_10, HUI\_11, HUI\_12, HUI\_13

**Description:** This variable classifies respondents based on speech health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	HUIFOPT = 2	Module not selected	NA
1	HUI_10 = 1 and HUI_11 = NA and HUI_12 = NA and HUI_13 = NA	Able to be understood completely when speaking with strangers or friends	
2	HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 1 and HUI_13 = NA	Able to be understood partially when speaking with strangers but able to be understood completely when speaking with people who know me well	
3	HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 2 and HUI_13 = 1	Able to be understood partially when speaking with strangers or people who know me well	
4	(HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 1 and HUI_13 = NA) or (HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 2 and HUI_13 = 1)	Unable to be understood when speaking with strangers but able to be understood partially by people who know me well	
5	(HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 2 and HUI_13 = 2) or (HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 2 and HUI_13 = 2)	Unable to be understood when speaking to other people (or unable to speak at all)	
9	(HUI_10 = DK, R, NS) or (HUI_11 = DK, R, NS) or (HUI_12 = DK, R, NS) or (HUI_13 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 8) Vision (Function Code)

**Variable name:** HUIDVIS

**Based on:** HUI\_01, HUI\_02, HUI\_03, HUI\_04, HUI\_05

**Description:** This variable classifies respondents based on vision health status.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA

1	HUI_01 = 1 and HUI_02 = NA and HUI_03 = NA and HUI_04 = 1 and HUI_05 = NA	Able to see well enough to read ordinary newsprint and recognize a friend on the other side of the street, without glasses or contact lenses	
2	(HUI_01 = 1 and HUI_02 = NA and HUI_03 = NA and HUI_04 = 2 and HUI_05 = 1) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = NA and HUI_04 = 1 and HUI_05 = NA) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = NA and HUI_04 = 2 and HUI_05 = 1)	Able to see well enough to read ordinary newsprint and recognize a friend on the other side of the street, but with glasses	
3	(HUI_01 = 1 and HUI_02 = NA and HUI_03 = NA and HUI_04 = 2 and HUI_05 = 2) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = NA and HUI_04 = 2 and HUI_05 = 2)	Able to read ordinary newsprint with or without glasses but unable to recognize a friend on the other side of the street, even with glasses	
4	(HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 1 and HUI_05 = NA) or (HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 2 and HUI_05 = 1)	Able to recognize a friend on the other side of the street with or without glasses but unable to read ordinary newsprint, even with glasses	
5	HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 2 and HUI_05 = 2	Unable to read ordinary newsprint and unable to recognize a friend on the other side of the street, even with glasses	
6	HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 2 and HUI_04 = NA and HUI_05 = NA	Unable to see at all	
99	(HUI_01 = DK, R, NS) or (HUI_02 = DK, R, NS) or (HUI_03 = DK, R, NS) or (HUI_04 = DK, R, NS) or (HUI_05 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 9) Dexterity Trouble (Function Code) - Grouped

Variable name: HUIGDEX

**Based on:** HUI\_21, HUI\_22, HUI\_23, HUI\_24

**Description:** This variable classifies the respondents based on their state of dexterity trouble.

**Introduced in:** CCHS - Cycle 1.1

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
96	HUIFOPT = 2	Module not selected	NA
99	(HUI_21 = DK, R, NS) or (HUI_22 = DK, R, NS) or (HUI_23 = DK, R, NS) or (HUI_24 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HUI_21 = 1 and HUI_22 = 6 and HUI_23 = 6 and HUI_24 = 6	No dexterity problems	
2	HUI_21 = 2 and HUI_22 = 2 and HUI_23 = 6 and HUI_24 = 2	Dexterity problem - no help required	
3	HUI_21 = 2 and HUI_22 = 2 and HUI_23 = 6 and HUI_24 = 1 or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 1 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 1 and HUI_24 = 2) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 2 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 2 and HUI_24 = 2) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 3 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 3 and HUI_24 = 2) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 4 and HUI_24 = 1) or (HUI_21 = 2 and HUI_22 = 1 and HUI_23 = 4 and HUI_24 = 2)	Dexterity problem - require special equipment or help with some tasks or help with most tasks or help with all tasks	

**10) Hearing Problems (Function Code) - Grouped**

**Variable name:** HUIGHER  
**Based on:** HUI\_06, HUI\_07, HUI\_07A, HUI\_08, HUI\_09  
**Description:** This variable classifies the respondents based on their hearing state.  
**Introduced in:** CCHS - Cycle 1.1

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
96	HUIFOPT = 2	Module not selected	NA
99	(HUI_06 = DK, R, NS) or (HUI_07 = DK, R, NS) or (HUI_07A = DK, R, NS) or (HUI_08 = DK, R, NS) or (HUI_09 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HUI_06 = 1 and HUI_07 = 6 and HUI_07A = 6 and HUI_08 = 6 and HUI_09 = 6	No hearing problems	
2	HUI_06 = 2 and HUI_07 = 1 and HUI_07A = 6 and HUI_08 = 1 and HUI_09 = 6 or (HUI_06 = 2 and HUI_07 = 1 and HUI_07A = 6 and HUI_08 = 2 and HUI_09 = 1) or (HUI_06 = 2 and HUI_07 = 1 and HUI_07A = 6 and HUI_08 = 2 and HUI_09 = 2)	Problem hearing in group - corrected Or Problem hearing in group and individual - corrected	

3	HUI_06 = 2 and HUI_07 = 2 and HUI_07A =1 and HUI_08 = 1 and HUI_09 = 6 or HUI_06 = 2 and HUI_07 = 2 and HUI_07A =1 and HUI_08 = 2 and HUI_09 = 1 or (HUI_06 = 2 and HUI_07 = 2 and HUI_07A =1 and HUI_08 = 2 and HUI_09 = 2) or (HUI_06 = 2 and HUI_07 = 2 and HUI_07A =2 and HUI_08 = 6 and HUI_09 = 6)	Problem hearing in group - not corrected Or Problem hearing in group and individual - individual corrected Or Cannot hear
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### 11 ) Mobility Trouble (Function Code) - Grouped

**Variable name:** HUIGMOB

**Based on:** HUI\_14, HUI\_15, HUI\_16, HUI\_17, HUI\_18

**Description:** This variable classifies the respondents based on their state of mobility trouble.

**Introduced in:** CCHS -Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
99	(HUI_14 = DK, R, NS) or (HUI_15 = DK, R, NS) or (HUI_16 = DK, R, NS) or (HUI_17 = DK, R, NS) or (HUI_18 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HUI_14 = 1 and HUI_15 = 6 and HUI_16 = 6 and HUI_17 = 6 and HUI_18 = 6	No mobility problems	
2	HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 2 and HUI_18 = 2	Problem - no aid required	



3	HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 2 and HUI_18 = 2 or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 2 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 2 and HUI_18 = 1)	Problem - requires mechanical support or wheelchair
4	(HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 1 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 1 and HUI_17 = 1 and HUI_18 = 2) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 1 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 1 and HUI_16 = 2 and HUI_17 = 1 and HUI_18 = 2) or (HUI_14 = 2 and HUI_15 = 2 and HUI_16 = 6 and HUI_17 = 6 and HUI_18 = 1) or (HUI_14 = 2 and HUI_15 = 2 and HUI_16 = 6 and HUI_17 = 6 and HUI_18 = 2)	Problem - requires help from people Or Cannot walk

## 12) Speech Trouble (Function Code) - Grouped

<b>Variable name:</b>	HUIGSPE
<b>Based on:</b>	HUI_10, HUI_11, HUI_12, HUI_13
<b>Description:</b>	This variable classifies the respondents based on their state of speech trouble.
<b>Introduced in:</b>	CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
6	HUIFOPT = 2	Module not selected	NA
9	(HUI_010 = DK, R, NS) or (HUI_011 = DK, R, NS) or (HUI_012 = DK, R, NS) or (HUI_013 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HUI_10 = 1 and HUI_11 = 6 and HUI_12 = 6 and HUI_13 = 6	No speech problems	
2	HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 1 and HUI_13 = 6 or HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 2 and HUI_13 = 1 or (HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 1 and HUI_13 = 6) or (HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 2 and HUI_13 = 1) or (HUI_10 = 2 and HUI_11 = 1 and HUI_12 = 2 and HUI_13 = 2) or (HUI_10 = 2 and HUI_11 = 2 and HUI_12 = 2 and HUI_13 = 2)	Partially understood by strangers Or Partially understood by friends Or Not understood by strangers Or Not understood by friends	

### 13) Vision Trouble (Function Code) - Grouped

**Variable name:** HUIGVIS

**Based on:** HUI\_01, HUI\_02, HUI\_03, HUI\_04, HUI\_05

**Description:** This variable classifies the respondents based on their vision state.

**Introduced in:** CCHS - Cycle 1.1

#### Specifications

Value	Condition(s)	Description	Notes
96	HUIFOPT = 2	Module not selected	NA
99	(HUI_01 = DK, R, NS) or (HUI_02 = DK, R, NS) or (HUI_03 = DK, R, NS) or (HUI_04 = DK, R, NS) or (HUI_05 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

1	HUI_01 = 1 and HUI_02 = 6 and HUI_03 = 6 and HUI_04 = 1 and HUI_05 = 6	No visual problems
2	(HUI_01 = 1 and HUI_02 = 6 and HUI_03 = 6 and HUI_04 = 2 and HUI_05 = 1) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = 6 and HUI_04 = 1 and HUI_05 = 6) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = 6 and HUI_04 = 2 and HUI_05 = 1)	Problems corrected by lenses (distance, close, or both)
3	(HUI_01 = 1 and HUI_02 = 6 and HUI_03 = 6 and HUI_04 = 2 and HUI_05 = 2) or (HUI_01 = 2 and HUI_02 = 1 and HUI_03 = 6 and HUI_04 = 2 and HUI_05 = 2)	Problems seeing distance - not corrected
4	(HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 1 and HUI_05 = 6) or (HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 2 and HUI_05 = 1)	Problems seeing close - not corrected
5	HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 1 and HUI_04 = 2 and HUI_05 = 2 or HUI_01 = 2 and HUI_02 = 2 and HUI_03 = 2 and HUI_04 = 6 and HUI_05 = 6	Problem seeing close and distance - not corrected, or no sight at all

## Health utilities index - Pain and discomfort (1 DV)

The Health Utilities Index (HUI) is a multi-attribute health status classification system for measuring generic health status and health-related quality of life. The version used by CCHS is the HUI Mark 3 (HUI3), developed in Canada at McMaster University by Health Utilities Inc. The HUI3 allows the calculation of a generic health status index based on attributes found in two different CCHS modules - Health utilities index - Pain and discomfort (HUP) and the Health utilities index (HUI). HUIDHSI can only be calculated for the Health Regions which selected both HUP and HUI. For more information see "Feeny D, Furlong W, Torrance GW et al. Multi-attribute and single-attribute utility functions for the Health Utilities Index Mark 3 system. Med Care 2002; 40: 113-128."

### 1 ) Pain (Function Code)

**Variable name:** HUPDPAD

**Based on:** HUP\_01, HUP\_03

**Description:** This variable classifies respondents based on activity limitation due to pain or discomfort. This variable is one of the 8 attributes used to calculate the Health Utility Index (HUIDHSI).

**Introduced in:** CCHS - Cycle 1.1

Specifications				
Value	Condition(s)	Description	Notes	
1	HUP_01 = 1 and HUP_03 = 6	No pain or discomfort		
2	HUP_01 = 2 and HUP_03 = 1	Pain - does not prevent activity		
3	HUP_01 = 2 and HUP_03 = 2	Pain prevents a few activities		
4	HUP_01 = 2 and HUP_03 = 3	Pain prevents some activities		
5	HUP_01 = 2 and HUP_03 = 4	Pain prevents most activities		
9	(HUP_01 = DK, R, NS) or (HUP_03 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS	

## Height and weight - Self-reported (9 DVs)

### 1 ) Body Mass Index (self-reported)

**Variable name:** HWTDBMI

**Based on:** HWTDHTM, HWTDWTK

**Description:** The Body Mass Index (BMI) for this variable is based on self-reported height and weight. BMI is a comparison of "weight" relative to the "height" of respondents. BMI is calculated by dividing weight in kilograms by height in metres squared.  
 $BMI = WEIGHT (KG) / HEIGHT (METRES) SQUARED$

**Introduced in:** CCHS - Cycle 1.1

**Note:** BMI is not calculated for pregnant women. Although calculation of BMI is not recommended for lactating women, the index provided here is calculated for women who report that they are breastfeeding (MEX\_05 = 1) to permit comparability with previous cycles of CCHS and NPHS.  
 For Cycle 1.1 of CCHS, BMI was calculated only for respondents aged 20-64. Beginning with Cycle 2.1, BMI is calculated for respondents aged 18 and over. With the introduction of a new classification system for people under 18 in Cycle 3.1, BMI is now calculated for people less than 18.  
 This BMI classification is created using "self-reported height" and "self-reported weight" variables.

Specifications			
Value	Condition(s)	Description	Notes
999.96	MAM_037 = 1	Population exclusion - Pregnant women	NA
999.99	DHH_SEX = 2 and (MAM_037 = DK, R, NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)	NS
999.99	HWTDHTM = NS or HWTDWTK = NS	Respondents for whom a valid self-reported height and weight was not obtained	NS
HWTDWTK / (HWTDHTM × HWTDHTM)	HWTDHTM < NA and HWTDWTK < NA	BMI calculated from both self-reported height and self-reported weight values	(Rounded to two decimal places)

### 2 ) BMI classification for children aged 12 to 17 (self-reported) - Cole classification system

**Variable name:** HWTDCOL

**Based on:** HWTDBMI, DHH\_SEX, DHHYOB, DHHMOB, DHHDOB, ADM\_YOI, ADM\_MOI, ADM\_DOI

**Description:** This variable classifies children aged 12 to 17 (except female respondents aged 15 to 17 who were pregnant or did not answer the pregnancy question) as "obese", "overweight" or "neither obese nor overweight" according to the age-and-sex-specific BMI cut-off points as defined by Cole et al. The Cole cut-off points are based on pooled international data (Brazil, Great Britain, Hong Kong, Netherlands, Singapore, and United States) for BMI and linked to the widely internationally accepted adult BMI cut-off points of 25 (overweight) and 30 (obese).

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who do not fall within the categories of "Obese" or "Overweight" (as defined by Cole et al.) have been classified by CCHS as "neither obese nor overweight".

This variable excludes respondents who are 18 years old or over (216 months).

Temporary Reformat			
Value	Condition(s)	Description	Notes
AGET1			

DHH_AGM / 12	DHH_AGM < 9996	Convert respondent's "age in months" to "age in years"	(Rounded to nearest 0.5)
<b>DHH_AGM</b>			
9999	(DHH_DOB = DK, R, NS) or (DHH_MOB = DK, R or NS) or (DHH_YOB = DK, R or NS)	A valid day of birth or month of birth or year of birth is not available for the respondent.	NS
Age in months	Interview date converted in months (ADM_YOI, ADM_MOI and ADM_DOI) - Date of birth converted in months (DHH_YOB, DHH_MOB and DHH_DOB)	Create respondent's age in months at time of the interview	(min:144; max:1224)

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
6	MAM_037 = 1 or (DHH_AGM >= 216 and DHH_AGM < NS)	Population exclusion	NA
9	HWTDBMI = NS or (MAM_037 = DK, R, NS) or DHH_AGM = NS	At least one required question was not answered (don't know, refusal, not stated)	NS

3	(AGET1 = 12 and DHH_SEX = 1 and HWTDBMI >= 26.02) or (AGET1 = 12 and DHH_SEX = 2 and HWTDBMI >= 26.67) or (AGET1 = 12.5 and DHH_SEX = 1 and HWTDBMI >= 26.43) or (AGET1 = 12.5 and DHH_SEX = 2 and HWTDBMI >= 27.24) or (AGET1 = 13 and DHH_SEX = 1 and HWTDBMI >= 26.84) or (AGET1 = 13 and DHH_SEX = 2 and HWTDBMI >= 27.76) or (AGET1 = 13.5 and DHH_SEX = 1 and HWTDBMI >= 27.25) or (AGET1 = 13.5 and DHH_SEX = 2 and HWTDBMI >= 28.20) or (AGET1 = 14 and DHH_SEX = 1 and HWTDBMI >= 27.63) or (AGET1 = 14 and DHH_SEX = 2 and HWTDBMI >= 28.57) or (AGET1 = 14.5 and DHH_SEX = 1 and HWTDBMI >= 27.98) or (AGET1 = 14.5 and DHH_SEX = 2 and HWTDBMI >= 28.87) or (AGET1 = 15 and DHH_SEX = 1 and HWTDBMI >= 28.30) or (AGET1 = 15 and DHH_SEX = 2 and HWTDBMI >= 29.11) or (AGET1 = 15.5 and DHH_SEX = 1 and HWTDBMI >= 28.60) or (AGET1 = 15.5 and DHH_SEX = 2 and HWTDBMI >= 29.29) or (AGET1 = 16 and DHH_SEX = 1 and HWTDBMI >= 28.88) or (AGET1 = 16 and DHH_SEX = 2 and HWTDBMI >= 29.43) or (AGET1 = 16.5 and DHH_SEX = 1 and HWTDBMI >= 29.14) or (AGET1 = 16.5 and DHH_SEX = 2 and HWTDBMI >= 29.56) or (AGET1 = 17 and DHH_SEX = 1 and HWTDBMI >= 29.41) or (AGET1 = 17 and DHH_SEX = 2 and HWTDBMI >= 29.69) or (AGET1 = 17.5 and DHH_SEX = 1 and HWTDBMI >= 29.70) or (AGET1 = 17.5 and DHH_SEX = 2 and HWTDBMI >= 29.84) or (AGET1 = 18 and	Obese
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DHH\_SEX = 1 and  
HWTDBMI >= 30.00) or  
(AGET1 = 18 and  
DHH\_SEX = 2 and  
HWTDBMI >= 30.00)

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2 (AGET1 = 12 and  
DHH\_SEX = 1 and  
(21.22 <= HWTDBMI < 26.02)) or  
(AGET1 = 12 and  
DHH\_SEX = 2 and  
(21.68 <= HWTDBMI < 26.67)) or  
(AGET1 = 12.5 and  
DHH\_SEX = 1 and  
(21.56 <= HWTDBMI < 26.43)) or  
(AGET1 = 12.5 and  
DHH\_SEX = 2 and  
(22.14 <= HWTDBMI < 27.24)) or  
(AGET1 = 13 and  
DHH\_SEX = 1 and  
(21.91 <= HWTDBMI < 26.84)) or  
(AGET1 = 13 and  
DHH\_SEX = 2 and  
(22.58 <= HWTDBMI < 27.76)) or  
(AGET1 = 13.5 and  
DHH\_SEX = 1 and  
(22.27 <= HWTDBMI < 27.25)) or  
(AGET1 = 13.5 and  
DHH\_SEX = 2 and  
(22.98 <= HWTDBMI < 28.20)) or  
(AGET1 = 14 and  
DHH\_SEX = 1 and  
(22.62 <= HWTDBMI < 27.63)) or  
(AGET1 = 14 and  
DHH\_SEX = 2 and  
(23.34 <= HWTDBMI < 28.57)) or  
(AGET1 = 14.5 and  
DHH\_SEX = 1 and  
(22.96 <= HWTDBMI < 27.98)) or  
(AGET1 = 14.5 and  
DHH\_SEX = 2 and  
(23.66 <= HWTDBMI < 28.87)) or  
(AGET1 = 15 and  
DHH\_SEX = 1 and  
(23.29 <= HWTDBMI < 28.30)) or  
(AGET1 = 15 and  
DHH\_SEX = 2 and  
(23.94 <= HWTDBMI < 29.11)) or  
(AGET1 = 15.5 and  
DHH\_SEX = 1 and  
(23.60 <= HWTDBMI < 28.60)) or  
(AGET1 = 15.5 and  
DHH\_SEX = 2 and  
(24.17 <= HWTDBMI < 29.29)) or  
(AGET1 = 16 and  
DHH\_SEX = 1 and  
(23.90 <= HWTDBMI < 28.88)) or  
(AGET1 = 16 and  
DHH\_SEX = 2 and  
(24.37 <= HWTDBMI < 29.43)) or  
(AGET1 = 16.5 and  
DHH\_SEX = 1 and  
(24.19 <= HWTDBMI < 29.14)) or  
(AGET1 = 16.5 and  
DHH\_SEX = 2 and  
(24.54 <= HWTDBMI < 29.56)) or  
(AGET1 = 17 and  
DHH\_SEX = 1 and  
(24.46 <= HWTDBMI < 29.41)) or  
(AGET1 = 17 and  
DHH\_SEX = 2 and  
(24.70 <= HWTDBMI < 29.69)) or  
(AGET1 = 17.5 and  
DHH\_SEX = 1 and  
(24.73 <= HWTDBMI < 29.70)) or  
(AGET1 = 17.5 and  
DHH\_SEX = 2 and  
(24.85 <= HWTDBMI < 29.84)) or  
(AGET1 = 18 and

Overweight

	DHH_SEX = 1 and (25.00 <= HWTDBMI < 30.00)) or (AGET1 = 18 and DHH_SEX = 2 and (25.00 <= HWTDBMI < 30.00))	
1	Else	Neither overweight nor obese

Reference: For more information about the Cole BMI classification system, see Establishing a Standard Definition for Child Overweight and Obesity Worldwide - International survey, by Tim J Cole, Mary C Bellizzi, Katherine M. Flegal, William H Dietz, published in British Medical Journal, Volume: 320, May 2000.

### 3) Height (Metres) - Self-Reported

**Variable name:** HWTDHTM

**Based on:** HWT\_2, HWT\_2C, HWT\_2D, HWT\_2E, HWT\_2F

**Description:** This variable indicates the respondent's self-reported height in metres.

**Introduced in:** CCHS - Cycle 1.1

**Note:** For example, an individual who reported being 5 feet and 8 inches will have a height of 1.727 metres. The 1.727 is the midpoint of the range (1.715-1.739) around the height 5 feet and 8 inches. The range values were calculated as follows for an individual who is 5'8": LOWER LIMIT: Take the exact value in metres for a person who is 5'7" and average it with the value for 5'8". UPPER LIMIT: Take the exact value in metres for a person who is 5'9" and average it with the value for 5'8" then subtract 0.001 from it.

Specifications			
Value	Condition(s)	Description	Notes
9.996	MAM_037 = 1	Population exclusion - Pregnant women	NA
9.999	ADM_PRX = 1	Module not asked - proxy interview	NS
9.999	(HWT_2 = DK, R, NS) or (HWT_2C = DK, R, NS) or (HWT_2D = DK, R, NS) or (HWT_2E = DK, R, NS) or (HWT_2F = DK, R, NS) or ADM_PRX = 1	At least one required question was not answered (don't know, refusal, not stated)	NS
0.914	HWT_2 = 3 and HWT_2C = 0	0.926 metres or shorter	
0.940	HWT_2 = 3 and HWT_2C = 1	0.927 to 0.952 metres	
0.965	HWT_2 = 3 and HWT_2C = 2	0.953 to 0.977 metres	
0.991	HWT_2 = 3 and HWT_2C = 3	0.978 to 1.002 metres	
1.016	HWT_2 = 3 and HWT_2C = 4	1.003 to 1.028 metres	
1.041	HWT_2 = 3 and HWT_2C = 5	1.029 to 1.053 metres	
1.067	HWT_2 = 3 and HWT_2C = 6	1.054 to 1.079 metres	
1.092	HWT_2 = 3 and HWT_2C = 7	1.080 to 1.104 metres	
1.118	HWT_2 = 3 and HWT_2C = 8	1.105 to 1.129 metres	

1.143	HWT_2 = 3 and HWT_2C = 9	1.130 to 1.155 metres
1.168	HWT_2 = 3 and HWT_2C = 10	1.156 to 1.180 metres
1.194	HWT_2 = 3 and HWT_2C = 11	1.181 to 1.206 metres
1.219	HWT_2 = 4 and HWT_2D = 0	1.207 to 1.231 metres
1.245	HWT_2 = 4 and HWT_2D = 1	1.232 to 1.256 metres
1.270	HWT_2 = 4 and HWT_2D = 2	1.257 to 1.282 metres
1.295	HWT_2 = 4 and HWT_2D = 3	1.283 to 1.307 metres
1.321	HWT_2 = 4 and HWT_2D = 4	1.308 to 1.333 metres
1.346	HWT_2 = 4 and HWT_2D = 5	1.334 to 1.358 metres
1.372	HWT_2 = 4 and HWT_2D = 6	1.359 to 1.383 metres
1.397	HWT_2 = 4 and HWT_2D = 7	1.384 to 1.409 metres
1.422	HWT_2 = 4 and HWT_2D = 8	1.410 to 1.434 metres
1.448	HWT_2 = 4 and HWT_2D = 9	1.435 to 1.460 metres
1.473	HWT_2 = 4 and HWT_2D = 10	1.461 to 1.485 metres
1.499	HWT_2 = 4 and HWT_2D = 11	1.486 to 1.510 metres
1.524	HWT_2 = 5 and HWT_2E = 0	1.511 to 1.536 metres
1.549	HWT_2 = 5 and HWT_2E = 1	1.537 to 1.561 metres
1.575	HWT_2 = 5 and HWT_2E = 2	1.562 to 1.587 metres
1.600	HWT_2 = 5 and HWT_2E = 3	1.588 to 1.612 metres
1.626	HWT_2 = 5 and HWT_2E = 4	1.613 to 1.637 metres
1.651	HWT_2 = 5 and HWT_2E = 5	1.638 to 1.663 metres
1.676	HWT_2 = 5 and HWT_2E = 6	1.664 to 1.688 metres
1.702	HWT_2 = 5 and HWT_2E = 7	1.689 to 1.714 metres
1.727	HWT_2 = 5 and HWT_2E = 8	1.715 to 1.739 metres
1.753	HWT_2 = 5 and HWT_2E = 9	1.740 to 1.764 metres
1.778	HWT_2 = 5 and HWT_2E = 10	1.765 to 1.790 metres

1.803	HWT_2 = 5 and HWT_2E = 11	1.791 to 1.815 metres
1.829	HWT_2 = 6 and HWT_2F = 0	1.816 to 1.841 metres
1.854	HWT_2 = 6 and HWT_2F = 1	1.842 to 1.866 metres
1.880	HWT_2 = 6 and HWT_2F = 2	1.867 to 1.891 metres
1.905	HWT_2 = 6 and HWT_2F = 3	1.892 to 1.917 metres
1.930	HWT_2 = 6 and HWT_2F = 4	1.918 to 1.942 metres
1.956	HWT_2 = 6 and HWT_2F = 5	1.943 to 1.968 metres
1.981	HWT_2 = 6 and HWT_2F = 6	1.969 to 1.993 metres
2.007	HWT_2 = 6 and HWT_2F = 7	1.994 to 2.018 metres
2.032	HWT_2 = 6 and HWT_2F = 8	2.019 to 2.044 metres
2.057	HWT_2 = 6 and HWT_2F = 9	2.045 to 2.069 metres
2.083	HWT_2 = 6 and HWT_2F = 10	2.070 to 2.095 metres
2.108	HWT_2 = 6 and HWT_2F = 11	2.096 to 2.120 metres
2.134	HWT_2 = 7	2.121 metres or taller

#### 4 ) BMI classification for adults aged 18 and over (self-reported) - international standard

**Variable name:** HWTDISW

**Based on:** HWTDBMI, DDH\_AGE

**Description:** This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their Body Mass Index (BMI): underweight; acceptable weight; overweight; obese class I; obese class II; and, obese class III. Here, the BMI categories are adopted from a body weight classification system recommended by Health Canada and the World Health Organization (WHO) which has been widely used internationally.

**Introduced in:** CCHS - Cycle 2.1

**Note:** According to Health Canada, this BMI classification system can be used as a screening tool to identify weight-related health risks at the population and individual levels. The following health risks are associated with each of the BMI categories for adults aged 18 and over:  
 normal weight = least health risk;  
 underweight and overweight = increased health risk;  
 obese class I = high health risk;  
 obese class II = very high health risk;  
 obese class III = extremely high health risk

At the population level, the BMI classification system can be used to compare body weight patterns and related health risks within and between populations and to establish population trends in body weight patterns. The classification should be used with caution at the individual level because the health risk associated with each BMI category varies considerably between individuals. Particular caution should be used when classifying: adults who are naturally very lean, very muscular adults, some ethnic and racial groups, and seniors.

This variable excludes female respondents aged 18 to 49 who were pregnant or did not answer the pregnancy question (i.e. MAM\_037 = don't know, refusal, not stated).

**Internet site:** [http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight\\_book\\_f.pdf](http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight_book_f.pdf)

Specifications			
Value	Condition(s)	Description	Notes
96	DDH_AGE < 18 or MAM_037 = 1	Population exclusions	NA
99	HWTDBMI = NS or (MAM_037 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HWTDBMI < 18.50	Underweight	
2	(18.50 <= HWTDBMI <= 24.99)	Normal weight	
3	(25.00 <= HWTDBMI <= 29.99)	Overweight	
4	(30.00 <= HWTDBMI <= 34.99)	Obese - Class I	
5	(35.00 <= HWTDBMI <= 39.99)	Obese - Class II	
6	HWTDBMI >= 40.00	Obese - Class III	

Reference: For more detailed information see Canadian Guidelines for Body Weight Classification in Adults, Health Canada, 2003

## 5) Weight (Kilograms) - Self-Reported

**Variable name:** HWTDWTK

**Based on:** HWT\_3, HWT\_N4

**Description:** This variable indicates the respondent's self-reported weight in kilograms.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
999.96	MAM_037 = 1	Population exclusion - Pregnant women	NA
999.99	ADM_PRX = 1	Module not asked (proxy interview)	
999.99	(HWT_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
HWT_3	HWT_N4 = 2	Weight in Kg.	(rounded to two decimal places)
HWT_3 x .45	HWT_N4 = 1	Weight in Kg., converted from Lbs.	(rounded to two decimal places)

## 6) Body mass index - grouped

**Variable name:** HWTGBMI

**Based on:** HWTGHTM, HWTGWTK

**Description:** The body mass index (BMI) is calculated for persons 20 to 64 years old, excluding pregnant women. BMI values have been regrouped to a minimum of 14 and a maximum of 58.

**Introduced in:** CCHS - Cycle 1.1

**Note:** BMI = WEIGHT (KG) / SQUARED HEIGHT (METRES)

Specifications			
Value	Condition(s)	Description	Notes
NA	DHH_AGE < 20 or > 64	Respondent less than 20 or more than 64 years old	
NA	MAM_037 = 1	Respondent is pregnant	
NS	(HWT DHTM = NS) or HWTGWTK = NS	Height and/or weight was not given	
HWTGWTK / (HWT DHTM × HWT DHTM)	(HWT DHTM >= .914 and <= 2.108) and (HWTGWTK > 0 and <= 260)	BMI calculated from height and weight values	(Rounded to one decimal place) Min: 14; Max: 58

## 7) Height (Metres) - Self-Reported - Grouped

**Variable name:** HWTGHTM

**Based on:** HWT\_2, HWT\_2C, HWT\_2D, HWT\_2E, HWT\_2F

**Description:** This variable indicates the height of the respondent in metres.

**Introduced in:** CCHS - Cycle 3.1

**Note:** For example, an individual who is 5 feet and 8 inches will have a height of 1.727 metres. The 1.727 is the midpoint of the range (1.715-1.739) around the height 5 feet and 8 inches. The range values were calculated as follows for an individual who is 5'8"

Specifications			
Value	Condition(s)	Description	Notes
9.999	(HWT_2 = DK, R, NS) or (HWT_2C = DK, R, NS) or (HWT_2D = DK, R, NS) or (HWT_2E = DK, R, NS) or (HWT_2F = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0.914	HWT_2 = 3 and HWT_2C = 0	0.926 metres or shorter	
0.940	HWT_2 = 3 and HWT_2C = 1	0.927 to 0.952 metres	
0.965	HWT_2 = 3 and HWT_2C = 2	0.953 to 0.977 metres	
0.991	HWT_2 = 3 and HWT_2C = 3	0.978 to 1.002 metres	
1.016	HWT_2 = 3 and HWT_2C = 4	1.003 to 1.028 metres	
1.041	HWT_2 = 3 and HWT_2C = 5	1.029 to 1.053 metres	
1.067	HWT_2 = 3 and HWT_2C = 6	1.054 to 1.079 metres	
1.092	HWT_2 = 3 and HWT_2C = 7	1.080 to 1.104 metres	

1.118	HWT_2 = 3 and HWT_2C = 8	1.105 to 1.129 metres
1.143	HWT_2 = 3 and HWT_2C = 9	1.130 to 1.155 metres
1.168	HWT_2 = 3 and HWT_2C = 10	1.156 to 1.180 metres
1.194	HWT_2 = 3 and HWT_2C = 11	1.181 to 1.206 metres
1.219	HWT_2 = 4 and HWT_2D = 0	1.207 to 1.231 metres
1.245	HWT_2 = 4 and HWT_2D = 1	1.232 to 1.256 metres
1.270	HWT_2 = 4 and HWT_2D = 2	1.257 to 1.282 metres
1.295	HWT_2 = 4 and HWT_2D = 3	1.283 to 1.307 metres
1.321	HWT_2 = 4 and HWT_2D = 4	1.308 to 1.333 metres
1.346	HWT_2 = 4 and HWT_2D = 5	1.334 to 1.358 metres
1.372	HWT_2 = 4 and HWT_2D = 6	1.359 to 1.383 metres
1.397	HWT_2 = 4 and HWT_2D = 7	1.384 to 1.409 metres
1.422	HWT_2 = 4 and HWT_2D = 8	1.410 to 1.434 metres
1.448	HWT_2 = 4 and HWT_2D = 9	1.435 to 1.460 metres
1.473	HWT_2 = 4 and HWT_2D = 10	1.461 to 1.485 metres
1.499	HWT_2 = 4 and HWT_2D = 11	1.486 to 1.510 metres
1.524	HWT_2 = 5 and HWT_2E = 0	1.511 to 1.536 metres
1.549	HWT_2 = 5 and HWT_2E = 1	1.537 to 1.561 metres
1.575	HWT_2 = 5 and HWT_2E = 2	1.562 to 1.587 metres
1.600	HWT_2 = 5 and HWT_2E = 3	1.588 to 1.612 metres
1.626	HWT_2 = 5 and HWT_2E = 4	1.613 to 1.637 metres
1.651	HWT_2 = 5 and HWT_2E = 5	1.638 to 1.663 metres
1.676	HWT_2 = 5 and HWT_2E = 6	1.664 to 1.688 metres
1.702	HWT_2 = 5 and HWT_2E = 7	1.689 to 1.714 metres
1.727	HWT_2 = 5 and HWT_2E = 8	1.715 to 1.739 metres
1.753	HWT_2 = 5 and HWT_2E = 9	1.740 to 1.764 metres

1.778	HWT_2 = 5 and HWT_2E = 10	1.765 to 1.790 metres
1.803	HWT_2 = 5 and HWT_2E = 11	1.791 to 1.815 metres
1.829	HWT_2 = 6 and HWT_2F = 0	1.816 to 1.841 metres
1.854	HWT_2 = 6 and HWT_2F = 1	1.842 to 1.866 metres
1.880	HWT_2 = 6 and HWT_2F = 2	1.867 to 1.891 metres
1.905	HWT_2 = 6 and HWT_2F = 3	1.892 to 1.917 metres
1.930	HWT_2 = 6 and HWT_2F = 4	1.918 to 1.942 metres
1.956	HWT_2 = 6 and HWT_2F = 5	1.943 to 1.968 metres
1.981	HWT_2 = 6 and HWT_2F = 6	1.969 to 1.993 metres
2.007	HWT_2 = 6 and HWT_2F = 7	1.994 to 2.018 metres
2.032	HWT_2 = 6 and HWT_2F = 8	2.019 to 2.044 metres
2.057	HWT_2 = 6 and HWT_2F = 9	2.045 to 2.069 metres
2.083	HWT_2 = 6 and HWT_2F = 10	2.070 to 2.095 metres
2.108	HWT_2 = 6 and HWT_2F = 11	2.096 to 2.120 metres
2.134	HWT_2 = 7	2.121 metres or taller

## 8 ) BMI classification for adults aged 18 and over (self reported) - international standard - grouped

**Variable name:** HWTGISW

**Based on:** HWTDBMI, DDH\_AGE

**Description:** This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their Body Mass Index (BMI): underweight; acceptable weight; overweight; obese class I; obese class II; and, obese class III.

**Introduced in:** CCHS - Cycle 3.1

**Note:** According to Health Canada, this BMI classification system can be used as a screening tool to identify weight-related health risks at the population and individual levels. The following health risks are associated with each of the BMI categories for adult

**Internet site:** [http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight\\_book\\_e.pdf](http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight_book_e.pdf)

### Specifications

Value	Condition(s)	Description	Notes
96	DDH_AGE < 18 or MAM_037 = 1	Population exclusions	NA



99	HWTDBMI = NS or MAM_037 = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HWTDBMI < 18.50	Underweight	
2	(18.50 <= HWTDBMI <= 24.99)	Normal weight	
3	(25.00 <= HWTDBMI <= 29.99)	Overweight	
4	30.00 <= HWTDBMI	Obese - Class I, II, III	

Reference: For more detailed information see Canadian Guidelines for Body Weight Classification in Adults, Health Canada, 2003

## 9 ) Weight (kilograms - grouped)

**Variable name:** HWTGWTK

**Based on:** HWT\_3, HWT\_N4

**Description:** The following variable describes the weight of the respondent in kilograms.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Some values have been grouped as specified below.

### Temporary Reformat

Value	Condition(s)	Description	Notes
<b>HWTA</b>			
HWTA_Q3 x .45	HW_N4 = 1	Weight is in pounds, convert to kilograms	
HWTA_Q3	HW_N4 = 2	Weight already in kilograms	

### Specifications

Value	Condition(s)	Description	Notes
NS	(HWT_3 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated)	
999.99	(HWT_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
27	DHH_SEX = 1 and DHH_AGE => 12 and DHH_AGE <=14 and HWTDWTK <= 27	Male 12-14 < = 27	
HWT_3	HWT_N4 = 2	Weight in Kg.	
29	DHH_SEX = 2 and DHH_AGE => 12 and DHH_AGE <=14 and HWTDWTK <= 29	Female 12-14 < = 29	
HWT_3 x .45	HWT_N4 = 1	Weight in Kg., converted from Lbs.	
40	DHH_SEX = 2 and DHH_AGE => 15 and HWTDWTK <= 40	Female >15 < = 40	
41	DHH_SEX = 1 and DHH_AGE => 15 and DHH_AGE <=19 and HWTDWTK <= 41	Male 15-19 < = 41	
50	DHH_SEX = 1 and DHH_AGE => 20 and HWTDWTK <= 50	Male =>20 <=50	
86	DHH_SEX = 2 and DHH_AGE => 12 and DHH_AGE <= 14 and HWTDWTK => 86	Female 12-14 = >86	
106	DHH_SEX = 1 and DHH_AGE => 12 and DHH_AGE <=14 and HWTDWTK => 106	Male 12-14 = >106	

113	DHH_SEX = 2 and DHH_AGE => 15 and HWTDWTK => 113	Female > 15 = >113
130	DHH_SEX = 1 and DHH_AGE => 15 and DHH_AGE <= 19 and HWTDWTK >= 130	Male 15-19 = >130
137	DHH_SEX = 1 and DHH_AGE => 20 and HWTDWTK => 137	Male = > 20 = >137

## Illicit drug use (16 DVs)

This module assesses use of various illicit drugs and drug interference. The questions for drug use are based on Canada's Alcohol and Other Drugs Survey (1994). Interference in daily activities and responsibilities is assessed.

### 1 ) Illicit Drug Interference 12-Month - Mean

<b>Variable name:</b>	IDGDINT
<b>Based on:</b>	IDG_26A, IDG_6B1, IDG_6B2, IDG_26C, IDG_26D
<b>Description:</b>	This variable assesses the interference that drug use had on daily activities and responsibilities in the past 12 months. It is a mean of the 5 items.
<b>Introduced in:</b>	CCHS - Cycle 2.1
<b>Note:</b>	Respondents who did not use drugs frequently enough or did not indicate problems with drug use were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
99.6	IDGFOPT = 2	Module not selected	NA
99.6	IDG_26A = NA	Population exclusions	NA
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS
99.9	(IDG_26A = DK, R, NS) or (IDG_6B1 = DK, R, NS) or (IDG_6B2 = DK, R, NS) or (IDG_26C = DK, R, NS) or (IDG_26D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
(IDG_26A + IDG_6B1 + IDG_6B2 + IDG_26C + IDG_26D) / 5	(0 <= IDG_26A <= 10) and (0 <= IDG_6B1 <= 10) and (0 <= IDG_6B2 <= 10) and (0 <= IDG_26C <= 10) and (0 <= IDG_26D <= 10)	Interference = mean of all 5 items. Answered all 5 questions	(Rounded to one decimal place) (min: 0.0; max: 10.0)
(IDG_26A + IDG_6B2 + IDG_26C + IDG_26D) / 4	IDG_6B1 = 11 and (0 <= IDG_6B2 <= 10) and (0 <= IDG_26A <= 10) and (0 <= IDG_26C <= 10) and (0 <= IDG_26D <= 10)	Interference = mean of 4 items that applied IDG_6B1 was not applicable	(Rounded to one decimal place) (min: 0.0; max: 10.0)
(IDG_26A + IDG_6B1 + IDG_26C + IDG_26D) / 4	(0 <= IDG_6B1 <= 10) and IDG_6B2 = 11 and (0 <= IDG_26A <= 10) and (0 <= IDG_26C <= 10) and (0 <= IDG_26D <= 10)	Interference = mean of 4 items that applied IDG_6B2 was not applicable	(Rounded to one decimal place) (min: 0.0; max: 10.0)
(IDG_26A + IDG_26C + IDG_26D) / 3	IDG_6B1 = 11 and IDG_6B2 = 11 and (0 <= IDG_26A <= 10) and (0 <= IDG_26C <= 10) and (0 <= IDG_26D <= 10)	Interference = mean of 3 items that applied IDG_6B1 and IDG_6B2 were not applicable	(Rounded to one decimal place) (min: 0.0; max: 10.0)

### 2 ) Flag for Illicit Drug Interference - 12-Month

<b>Variable name:</b>	IDGFINT
<b>Based on:</b>	IDG_26A, IDG_6B1, IDG_6B2, IDG_26C, IDG_26D

**Description:** This variable assesses the interference that drug use had on daily activities and responsibilities in the past 12 months. This is a classification that indicates whether drug use interferes significantly with the person's normal routine, occupational (academic) functioning, or social activities or relationships.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who did not use drugs frequently enough or did not indicate problems with drug use were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
6	IDG_26A = NA	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(4 <= IDG_26A <= 10) or (4 <= IDG_6B1 <= 10) or (4 <= IDG_6B2 <= 10) or (4 <= IDG_26C <= 10) or (4 <= IDG_26D <= 10)	Drug use interfered significantly with normal routine, occupational (academic) functioning, or social activities or relationships in the past 12 months	
2	(0 <= IDG_26A <= 3) and [(0 <= IDG_6B1 <= 3) or IDG_6B1 = 11] and [(0 <= IDG_6B2 <= 3) or IDG_6B2 = 11] and (0 <= IDG_26C <= 3) and (0 <= IDG_26D <= 3)	Drug use did not interfere significantly with normal routine, occupation (academic) functioning or social activities or relationships in the past 12 months	
9	(IDG_26A = DK, R, NS) or (IDG_6B1 = DK, R, NS) or (IDG_6B2 = DK, R, NS) or (IDG_26C = DK, R, NS) or (IDG_26D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 3) Any Illicit Drug Use - Lifetime (Including "One Time Only" Use of Cannabis)

**Variable name:** IDGFLA

**Based on:** IDGFLCA, IDGFLCO, IDGFLAM, IDGFLEX, IDGFLHA, IDGFLGL, IDGFLHE, IDGFLST

**Description:** This variable indicates whether respondents have ever used any of the drugs listed. Includes one time use of cannabis.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS

1	IDGFLCA = 1 or IDGFLCO = 1 or IDGFLAM = 1 or IDGFLEX = 1 or IDGFLHA = 1 or IDGFLGL = 1 or IDGFLHE = 1 or IDGFLST = 1	Has used at least 1 of 8 drugs if lifetime, including "one time only" use of cannabis	
2	IDGFLCA = 2 and IDGFLCO = 2 and IDGFLAM = 2 and IDGFLEX = 2 and IDGFLHA = 2 and IDGFLGL = 2 and IDGFLHE = 2 and IDGFLST = 2	Has never used drugs listed	
9	IDGFLCA = NS or IDGFLCO = NS or IDGFLAM = NS or IDGFLEX = NS or IDGFLHA = NS or IDGFLGL = NS or IDGFLHE = NS or IDGFLST = NS	At least one required question was not answered (don't know, refusal, not stated)	NS

#### 4) Any Illicit Drug Use - Lifetime (Excluding "One Time Only" Use of Cannabis)

**Variable name:** IDGFLAC

**Based on:** IDGFLCM, IDGFLCO, IDGFLAM, IDGFLEX, IDGFLHA, IDGFLGL, IDGFLHE, IDGFLST

**Description:** This variable indicates whether respondents have ever used any of the drugs listed. Excludes one time use of cannabis.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

#### Specifications

Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	IDGFLCM = 1 or IDGFLCO = 1 or IDGFLAM = 1 or IDGFLEX = 1 or IDGFLHA = 1 or IDGFLGL = 1 or IDGFLHE = 1 or IDGFLST = 1	Has used at least 1 of 8 drugs, excluding "one time only" use of cannabis	
2	IDGFLCM = 2 and IDGFLCO = 2 and IDGFLAM = 2 and IDGFLEX = 2 and IDGFLHA = 2 and IDGFLGL = 2 and IDGFLHE = 2 and IDGFLST = 2	Has never used drugs listed, excluding one time use of cannabis	

9	IDGFLCM = NS or IDGFLCO = NS or IDGFLAM = NS or IDGFLEX = NS or IDGFLHA = NS or IDGFLGL = NS or IDGFLHE = NS or IDGFLST = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
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## 5) Amphetamine (Speed) Drug Use - Lifetime

**Variable name:** IDGFLAM

**Based on:** IDG\_07

**Description:** This variable indicates whether respondents have ever used amphetamines (speed).

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

### Specifications

Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_07 = 1, 2)	Has used amphetamines	
2	IDG_07 = 3	Has never used amphetamines	
9	(IDG_07 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

## 6) Cannabis Drug Use - Lifetime (Including "One Time Only" Use)

**Variable name:** IDGFLCA

**Based on:** IDG\_01

**Description:** This variable indicates whether respondents have ever used marijuana, cannabis or hashish.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

### Specifications

Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_01 = 1, 2)	Has used marijuana	
2	IDG_01 = 3	Has never used marijuana	

9	(IDG_01 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
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## 7) Cannabis Drug Use - Lifetime (Excluding "One Time Only" Use)

**Variable name:** IDGFLCM

**Based on:** IDG\_01

**Description:** This variable indicates whether respondents have used marijuana, cannabis or hashish more than just once.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

### Specifications

Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	IDG_01 = 2	Has used marijuana more than once	
2	(IDG_01 = 1, 3)	Has not used marijuana more than once	
9	(IDG_01 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

## 8) Cocaine or Crack Drug Use - Lifetime

**Variable name:** IDGFLCO

**Based on:** IDG\_04

**Description:** This variable indicates whether respondents have ever used cocaine or crack.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

### Specifications

Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_04 = 1, 2)	Has used cocaine or crack	
2	IDG_04 = 3	Has never used cocaine or crack	
9	(IDG_04 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

**9) MDMA (ecstasy) Drug Use - Lifetime**

**Variable name:** IDGFLEX

**Based on:** IDG\_10

**Description:** This variable indicates whether respondents have ever used MDMA (ecstasy) or similar drugs.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_10 = 1, 2)	Has used MDMA (ecstasy)	
2	IDG_10 = 3	Has never used MDMA (ecstasy)	
9	(IDG_10 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

**10) Glue, Gasoline, or Other Solvent Use - Lifetime**

**Variable name:** IDGFLGL

**Based on:** IDG\_16

**Description:** This variable indicates whether respondents have ever sniffed glue, gasoline, or other solvents.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_16 = 1, 2)	Has sniffed glue, gasoline or other solvents	
2	IDG_16 = 3	Has never sniffed glue, gasoline or other solvents	
9	(IDG_16 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

**11) Hallucinogens, PCP or LSD Drug Use - Lifetime**

**Variable name:** IDGFLHA

**Based on:** IDG\_13



**Description:** This variable indicates whether respondents have ever used hallucinogens, PCP, or LSD (acid).

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_13 = 1, 2)	Has used hallucinogens, PCP, or LSD (acid)	
2	IDG_13 = 3	Has never used hallucinogens, PCP, or LSD (acid)	
9	(IDG_13 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

## 12) Heroin Drug Use - Lifetime

**Variable name:** IDGFLHE

**Based on:** IDG\_19

**Description:** This variable indicates whether respondents have ever used heroin.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_19 = 1, 2)	Has used heroin	
2	IDG_19 = 3	Has never used heroin	
9	(IDG_19 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

## 13) Steroid Use - Lifetime

**Variable name:** IDGFLST

**Based on:** IDG\_22

**Description:** This variable indicates whether respondents have ever used steroids, such as testosterone, dianabol or growth hormones.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(IDG_22 = 1, 2)	Has used steroids	
2	IDG_22 = 3	Has never used steroids	
9	(IDG_22 = DK, R, NS)	The required question was not answered (don't know, refusal, not stated)	NS

#### 14) Any Illicit Drug Use - 12-Month (Including "One Time Only" Use of Cannabis)

**Variable name:** IDGFYA

**Based on:** IDG\_02, IDG\_05, IDG\_08, IDG\_11, IDG\_14, IDG\_17, IDG\_20, IDG\_23

**Description:** This variable indicates whether respondents used any of the drugs listed in the past 12 months. Includes one time use of cannabis.

**Introduced in:** CCHS - Cycle 2.1

**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	IDG_02 = 1 or IDG_05 = 1 or IDG_08 = 1 or IDG_11 = 1 or IDG_14 = 1 or IDG_17 = 1 or IDG_20 = 1 or IDG_23 = 1	Has used at least 1 of 8 drugs listed in the past 12 months, including "one time only" use of cannabis	
2	(IDG_02 = 2, NA) and (IDG_05 = 2, NA) and (IDG_08 = 2, NA) and (IDG_11 = 2, NA) and (IDG_14 = 2, NA) and (IDG_17 = 2, NA) and (IDG_20 = 2, NA) and (IDG_23 = 2, NA)	Has not used drugs listed in the past 12 months	
9	(IDG_02 = DK, R, NS) or (IDG_05 = DK, R, NS) or (IDG_08 = DK, R, NS) or (IDG_11 = DK, R, NS) or (IDG_14 = DK, R, NS) or (IDG_17 = DK, R, NS) or (IDG_20 = DK, R, NS) or (IDG_23 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

**15) Any Illicit Drug Use - 12-Month (Excluding "One Time Only" Use of Cannabis)****Variable name:** IDGFYAC**Based on:** IDGFYCM, IDG\_05, IDG\_08, IDG\_11, IDG\_14, IDG\_17, IDG\_20, IDG\_23**Description:** This variable indicates whether respondents used any of the drugs listed in the past 12 months. Excludes one time use of cannabis.**Introduced in:** CCHS - Cycle 2.1**Source:** Canada's Alcohol and Other Drugs Survey (1994)

Specifications			
Value	Condition(s)	Description	Notes
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	IDGFYCM = 1 or IDG_05 = 1 or IDG_08 = 1 or IDG_11 = 1 or IDG_14 = 1 or IDG_17 = 1 or IDG_20 = 1 or IDG_23 = 1	Has used at least 1 of 8 drugs listed in the past 12 months, excluding "one time only" lifetime use of cannabis	
2	IDGFYCM = 2 and (IDG_05 = 2, NA) and (IDG_08 = 2, NA) and (IDG_11 = 2, NA) and (IDG_14 = 2, NA) and (IDG_17 = 2, NA) and (IDG_20 = 2, NA) and (IDG_23 = 2, NA)	Has not used drugs listed in the past 12 months, excluding "one time only" lifetime use of cannabis	
9	IDGFYCM = NS or (IDG_05 = DK, R, NS) or (IDG_08 = DK, R, NS) or (IDG_11 = DK, R, NS) or (IDG_14 = DK, R, NS) or (IDG_17 = DK, R, NS) or (IDG_20 = DK, R, NS) or (IDG_23 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

**16) Cannabis Drug Use - 12 month (Excluding "One Time Only" Use)****Variable name:** IDGFYCM**Based on:** IDG\_01, IDG\_02**Description:** This variable indicates whether respondents have used marijuana, cannabis or hashish in the past year, excluding one time use in lifetime.**Introduced in:** CCHS - Cycle 2.1**Source:** Canada's Alcohol and Other Drugs Survey (1994)

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
6	IDGFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	IDG_01 = 2 and IDG_02 = 1	Has used marijuana in the past 12 months and has used marijuana more than once in his/her lifetime	
2	(IDG_01 = 1 and IDG_02 = 1) or (IDG_02 = 2, NA)	Has not used marijuana in the past 12 months or used it once in the past 12 months and this was the only lifetime use	
9	(IDG_02 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Income (9 DVs)

### TEMPORARY VARIABLE

Household income ratio

Variable name: INCTRAT

Based on: INC\_3, INCDHH, GEO\_PRV, DHHDSZ, GEODPSZ

This derived variable is a temporary variable used in the calculation of adjusted ratios (INCDADR). While INCDADR is disseminated in the master and share files, INCTRAT is not. The Territories are excluded from this derived variable.

This derived variable is a ratio between the total income of the respondent's household and the low income cut-off corresponding to the number of persons in the household and the size of the community. The low income cut-off is the threshold at which a family would typically spend a larger portion of its income than the average family on the necessities of food, shelter and clothing.

This derived variable is produced in three separate steps. A summary of those steps is provided below.

Step 1: Low income cut-offs for each family and community size were obtained for the 2007 reference year from the Survey of Labour and Income Dynamics (SLID). In the case of CCHS, the income questions refer to the past 12 months. Although the survey data were collected in 2008, at the time the data was to be processed, 2007 was the most recent year for which low income cut-offs could be provided.

A low income cut-off was linked to all respondents (INCLIC). This cut-off corresponded to the size of the respondent's household (DHCHSZ) and the size of the community in which the respondent lives (GEODPSZ). Therefore, respondents were assigned one of the 35 possible combinations that exist (7 household size groups time 5 community size groups). For instance, the INCLIC variable of a respondent living in a household size of 3 people and in an urban community with a population of 47,000 people would be 28,379.

Step 2a: Household income is obtained using INC\_3 questions for a specific amount and INCDHH (INC\_3A to INC\_3G) for an amount in an interval.

If a specific amount is obtained at question INC\_3, that amount is used as household income. If only one interval is reported for INC\_3A to INC\_3G, a random value within each interval is derived from INCDHH for household income for all intervals but the highest one (see next step).

Step 2b: For the highest household income interval (\$100 000 or more), for each province, the median value from the Survey of Labour and Income Dynamics (SLID) for the same interval will be used as the household income. Although the survey data was collected in 2008, at the time the data was to be processed, 2007 was the most recent year for which median household income could be provided.

Median provincial household income in 2007 from the SLID for the "100 000 \$ or more" category:

	2007
Newfoundland and Labrador	142 580
Prince Edward Island	133 457
Nova Scotia	145 050
New Brunswick	139 659
Quebec	143 119
Ontario	153 360
Manitoba	149 934
Saskatchewan	145 987
Alberta	182 772
British Columbia	155 787

Step 3: Individual ratios of household income to the low income cut-off are calculated for each household within each household and community size using the DHCHSZ household size variable and the GEODPSZ community size variable. Ratios are calculated by dividing household income (INCTINC) by the corresponding low income cut-off (INCLIC).

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>INCTINC</b>			
999996	GEO_PRV = 60, 61, 62	Residents of Territories excluded	
999999	INCDHH = 99	None of the income questions was stated	
0	INCDHH = 1	No income	
INC_3	0 < INC_3 < 999996	Specific and positive household income	
RANDOM (MIN -1 MAY-1000)	INCDHH = 2	Random variable for a stated income in an interval of \$1 to \$4,999	
RANDOM (MIN -5000 MAY-99	INCDHH = 3	Random variable for a stated income in an interval of \$5,000 to \$9,999	

RANDOM (MIN -10000 MAY-1	INCDHH = 4	Random variable for a stated income in an interval of \$10,000 to \$14,999
RANDOM (MIN -15000 MAY-1	INCDHH = 5	Random variable for a stated income in an interval of \$15,000 to \$19,999
RANDOM (MIN -20000 MAY-2	INCDHH = 6	Random variable for a stated income in an interval of \$20,000 to \$29,999
RANDOM (MIN -30000 MAY-3	INCDHH = 7	Random variable for a stated income in an interval of \$30,000 to \$39,999
RANDOM (MIN -40000 MAY-4	INCDHH = 8	Random variable for a stated income in an interval of \$40,000 to \$49,999
RANDOM (MIN -50000 MAY-5	INCDHH = 9	Random variable for a stated income in an interval of \$50,000 to \$59,999
RANDOM (MIN -60000 MAY-7	INCDHH = 10	Random variable for a stated income in an interval of \$60,000 to \$79,999
RANDOM (MIN -80000 MAY-9	INCDHH = 11	Random variable for a stated income in an interval of \$80,000 to \$99,999
118,633	INCDHH = 12 and GEO_PRV = 11	Imputed value from SLID if the province of residence is Prince Edward Island and income > 100,000\$
120,914	INCDHH = 12 and GEO_PRV = 13	Imputed value from SLID if the province of residence is New Brunswick and income > 100,000\$
123,461	INCDHH = 12 and GEO_PRV = 10	Imputed value from SLID if the province of residence is Newfoundland and Labrador and income > 100,000\$
125,000	INCDHH = 12 and GEO_PRV = 24	Imputed value from SLID if the province of residence is Quebec and income > 100,000\$
126,197	INCDHH = 12 and GEO_PRV = 46	Imputed value from SLID if the province of residence is Manitoba and income > 100,000\$
128,570	INCDHH = 12 and GEO_PRV = 47	Imputed value from SLID if the province of residence is Saskatchewan and income > 100,000\$
128,728	INCDHH = 12 and GEO_PRV = 59	Imputed value from SLID if the province of residence is British Columbia and income > 100,000\$
133,168	INCDHH = 12 and GEO_PRV = 12	Imputed value from SLID if the province of residence is Nova Scotia and income > 100,000\$
133,417	INCDHH = 12 and GEO_PRV = 35	Imputed value from SLID if the province of residence is Ontario and income > 100,000\$
133,920	INCDHH = 12 and GEO_PRV = 48	Imputed value from SLID if the province of residence is Alberta and income > 100,000\$
<b>INCTLIC</b>		
14 914	DHHDHSZ = 1 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 1 and population size group = rural area
16 968	DHHDHSZ = 1 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - less than 30,000 people
18 544	DHHDHSZ = 1 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 30,000 to 99,999 people
18 567	DHHDHSZ = 2 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 2 and population size group = rural area
18 659	DHHDHSZ = 1 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 100,000 to 499,999 people
21 123	DHHDHSZ = 2 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - less than 30,000 people
21 666	DHHDHSZ = 1 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 500,000 people or more
22 826	DHHDHSZ = 3 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 3 and population size group = rural area
23 084	DHHDHSZ = 2 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 30,000 to 99,999 people

23 228	DHHDSZ = 2 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 100,000 to 499,999 people
25 968	DHHDSZ = 3 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - less than 30,000 people
26 972	DHHDSZ = 2 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 500,000 people or more
27 714	DHHDSZ = 4 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 4 and population size group = rural area
28 379	DHHDSZ = 3 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 30,000 to 99,999 people
28 556	DHHDSZ = 3 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 100,000 to 499,999 people
31 432	DHHDSZ = 5 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 5 and population size group = rural area
31 529	DHHDSZ = 4 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - less than 30,000 people
33 159	DHHDSZ = 3 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 500,000 people or more
34 457	DHHDSZ = 4 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 30,000 to 99,999 people
34 671	DHHDSZ = 4 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 100,000 to 499,999 people
35 452	DHHDSZ = 6 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 6 and population size group = rural area
35 760	DHHDSZ = 5 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - less than 30,000 people
39 081	DHHDSZ = 5 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 30,000 to 99,999 people
39 322	DHHDSZ = 5 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 100,000 to 499,999 people
39 470	DHHDSZ >= 7 and GEODPSZ = 1	Low income cut-offs when the number of persons in household >= 7 and population size group = rural area
40 259	DHHDSZ = 4 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 500,000 people or more
40 331	DHHDSZ = 6 and GEODPSZ = 2	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - less than 30,000 people
44 077	DHHDSZ = 6 and GEODPSZ = 3	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 30,000 to 99,999 people
44 350	DHHDSZ = 6 and GEODPSZ = 4	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 100,000 to 499,999 people
44 903	DHHDSZ >= 7 and GEODPSZ = 2	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - less than 30,000 people
45 662	DHHDSZ = 5 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 500,000 people or more
49 073	DHHDSZ >= 7 and GEODPSZ = 3	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - 30,000 to 99,999 people

49 377	DHHHSZ >= 7 and GEODPSZ = 4	Low income cut-offs when the number of persons in household => 7 and population size group = urban area - 100,000 to 499,999 people	
51 498	DHHHSZ = 6 and GEODPSZ = 5	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 500,000 people or more	
57 336	DHHHSZ >= 7 and GEODPSZ = 5	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - 500,000 people or more	
<b>INCRAT</b>			
99.99999996	INCTINC = 999996	Residents of territories excluded	9 decimals
99.99999999	INCTINC = 999999	The ratio cannot be calculated because the household income was not stated	9 decimals
0-40	INCTINC / INCTLIC	Individual ratio of household income to the low income cut-off corresponding to the size of the household and the size of the community. The maximum ratio is based on the maximum household income accepted, which is \$500,000	9 decimals

## 1) Adjusted household income ratio - National level

**Variable name:** INCDADR

**Based on:** INCRAT (Household income ratio to the low income cut-off)

**Description:** Adjusted household income ratios to the low income cut-off are obtained by dividing the original ratios (INCRAT) by the highest ratio for all survey respondents. This results in ratios ranging from 0 to 1. The Territories are excluded from this derived variable.

**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
9.99999996	INCRAT = 99.99999996	Residents of territories excluded	NA (9 decimal places)
9.99999999	INCRAT = 99.99999999	The ratio cannot be calculated because the household income was not stated.	NS (9 decimal places)
0 - 1	INCRAT / Max value of all respondents	Ratio between 0 and 1 corresponding to the household income and the corresponding low income cut-off divided by the highest ratio for all respondents.	(Rounded to 9 decimal places)

## 2) Total Household Income - All Sources

**Variable name:** INCDHH

**Based on:** INC\_3A, INC\_3B, INC\_3C, INC\_3D, INC\_3E, INC\_3F, INC\_3G

**Description:** This variable groups the total household income from all sources. A range category was previously assigned by the application to respondents who provided an exact amount in question INC\_3. The Territories are excluded from this derived variable.

**Introduced in:** CCHS - Cycle 1.1

### Specifications



Value	Condition(s)	Description	Notes
99	(INC_3A = DK, R, NS)	None of the income question were answered (don't know, refusal, not stated)	NS
1	INC_3A = 3	No income	
2	INC_3C = 1	Less than \$5,000	
3	INC_3C = 2	\$5,000 to \$9,999	
4	INC_3D = 1	\$10,000 to \$14,999	
5	INC_3D = 2	\$15,000 to \$19,999	
6	INC_3F = 1	\$20,000 to \$29,999	
7	INC_3F = 2	\$30,000 to \$39,999	
8	INC_3G = 1	\$40,000 to \$49,999	
9	INC_3G = 2	\$50,000 to \$59,999	
10	INC_3G = 3	\$60,000 to \$79,999	
11	INC_3G = 4	\$80,000 to \$99,999	
12	INC_3G = 5	\$100,000 +	
99	Else	Not enough information for the classification	NS

### 3) Personal Income - All Sources

**Variable name:** INCDPER

**Based on:** INC\_4A, INC\_4C, INC\_4D, INC\_4F, INC\_4G

**Description:** This variable indicates the respondent's personal income from all sources. A range category was previously assigned by the application to respondents who provided an exact amount in question INC\_4. The Territories are excluded from this derived variable.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE < 15	Population exclusions	NA
99	(INC_4A = DK, R, NS)	None of the income question were answered (don't know, refusal, not stated)	NS
1	(INC_4A = 3, NA)	No income	
2	INC_4C = 1	Less than \$5,000	
3	INC_4C = 2	\$5,000 to \$9,999	
4	INC_4D = 1	\$10,000 to \$14,999	
5	INC_4D = 2	\$15,000 to \$19,999	
6	INC_4F = 1	\$20,000 to \$29,999	
7	INC_4F = 2	\$30,000 to \$39,999	
8	INC_4G = 1	\$40,000 to \$49,999	
9	INC_4G = 2	\$50,000 to \$59,999	

10	INC_4G = 3	\$60,000 to \$79,999	
11	INC_4G = 4	\$80,000 to \$99,999	
12	INC_4G = 5	\$100,000 +	
99	Else	Not enough information for the classification	NS

#### 4) Distribution of household income - National level

**Variable name:** INCDRCA

**Based on:** INCDADR

**Description:** 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, ie. 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.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Deciles are generated using weighted data. Adjusted ratios are presented in increasing order, from smallest to largest, for all 10 provinces irrespective of household and community size. Derived variables are calculated only for valid responses (not stated, refusal and don't know are excluded). Boundaries are determined in order to derive deciles from the total weighted number of cases for which derived variables are calculated. The Territories are excluded from this derived variable.

Specifications			
Value	Condition(s)	Description	Notes
96	Residents of Territories excluded	N/A	NA
99	INCDADR = 9.999999999	Not stated	NS
1	First 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 1	
2	Second 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 2	
3	Third 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 3	
4	Fourth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 4	
5	Fifth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 5	
6	Sixth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 6	
7	Seventh 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 7	
8	Eighth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 8	
9	Ninth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 9	
10	Tenth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 10	

## 5) Distribution of household income - Provincial level

**Variable name:** INCDRPR

**Based on:** INCDADR, GEO\_PRV

**Description:** This derived variable is a distribution of residents of each province in deciles (ten categories including approximately the same percentage of residents for each province) based on their value for INCDADR, ie. 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 in the same province. The Territories are excluded from this derived variable.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Deciles are generated using weighted data. Adjusted ratios are presented in increasing order, from smallest to largest, for each of the 10 provinces irrespective of household and community size. Derived variables are calculated only for valid responses (not stated, refusal, etc. are excluded). Boundaries are determined in order to derive deciles from the total weighted number of cases for which derived variables are calculated.

The INCDRPR values are based on a distribution of adjusted ratios for the residents of each of the 10 provinces. This variable should therefore be used in conjunction with the variable for the province of residence (GEO\_PRV).

Specifications			
Value	Condition(s)	Description	Notes
96	Residents of territories excluded	N/A	NA
99	INCDADR = 9.999999999	Not stated	NS
1	First 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 1	
2	Second 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 2	
3	Third 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 3	
4	Fourth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 4	
5	Fifth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 5	
6	Sixth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 6	
7	Seventh 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 7	
8	Eighth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 8	
9	Ninth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 9	
10	Tenth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 10	

## 6) Distribution of household income - Health region level

**Variable name:** INCDRRS

**Based on:** INCDADR, GEO\_DHR4

**Description:** This derived variable is a distribution of residents of each health region in deciles (ten categories including approximately the same percentage of residents for each province) based on their value for INCDADR, ie. 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 in the same health region. The Territories are excluded from this derived variable.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Deciles are generated using weighted data. Adjusted ratios are presented in increasing order, from smallest to largest, for each of the 10 provinces irrespective of household and community size. Derived variables are calculated only for valid responses (not stated, refusal, etc. are excluded). Boundaries are determined in order to derive deciles from the total weighted number of cases for which derived variables are calculated.

The INCDRRS values are based on a distribution of adjusted ratios for the residents of each of the 122 health regions. This variable should therefore be used in conjunction with the variable for the health region province of residence (GEO\_DHR4).

Specifications			
Value	Condition(s)	Description	Notes
96	Residents of Territories excluded	N/A	NA
99	INCDADR = 9.999999999	Not stated	NS
1	First 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 1	
2	Second 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 2	
3	Third 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 3	
4	Fourth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 4	
5	Fifth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 5	
6	Sixth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 6	
7	Seventh 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 7	
8	Eighth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 8	
9	Ninth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 9	
10	Tenth 10% of respondents from the ascending list of adjusted ratios (INCDADR)	Decile 10	

## 7) Total household income - main source - Grouped

**Variable name:** INCG2

**Based on:** INC\_2

**Description:** This variable groups the main source of total household income into four categories.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes

9	(INC_2 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	(INC_2 = 1, 2)	Wages/salaries or self-employment	
2	(INC_2 = 4, 5, 10)	Employment insurance or worker's compensation or social assistance/welfare	
3	(INC_2 = 6, 7, 8)	Canada or Quebec pension or retirement pensions or old age security/GIS	
4	(INC_2 = 3, 9, 11, 12, 13, 14)	Dividends/interest or child tax benefit or child support or alimony or other or no income	

## 8) Total Household Income - All Sources - Grouped

**Variable name:** INCGHH  
**Based on:** INCDHH  
**Description:** This variable groups the total household income from all sources.  
**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
9	(INCDHH = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	INCDHH = (1, 2, 3, 4, or 5)	No income or less than \$20,000	
2	INCDHH = 6 or 7	\$20,000 to \$39,999	
3	INCDHH = 8 or 9	\$40,000 to \$59,999	
4	INCDHH = 10	\$60,000 to \$79,999	
5	INCDHH = 11 or 12	\$80,000 +	

## 9) Personal Income - All Sources - Grouped

**Variable name:** INCGPER  
**Based on:** INCDPER  
**Description:** This variable indicates the respondent's personal income from all sources.  
**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
99	(INCDPER = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	INCDPER = 1	No income	
2	INCDPER = 2, 3, 4, or 5	Less than \$20,000	

3	INCDPER = 6 or 7	\$20,000 to \$39,999
4	INCDPER = 8 or 9	\$40,000 to \$59,999
5	INCDPER = 10	\$60,000 to \$79,999
6	INCDPER = 11 or 12	\$80,000 +

**Note finale :** Low income cut-offs for 2008 (INCLIC) are adapted from "Low income cut-offs for 2007", published in 2008 by the Income Statistics Division, Statistics Canada.

## Injuries (15 DVs)

### 1 ) Cause of Injury

**Variable name:** INJDCAU

**Based on:** INJ\_10, INJ\_12

**Description:** This variable categorizes the respondent's cause of injury.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who did not suffer any injuries in the 12 months before the interview have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	INJFOPT = 2	Module not selected	NA
96	INJ_01= 2	Population exclusion	NA
99	(INJ_10 = 2, DK, R, NS) and (INJ_12 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	INJ_10 = 1	Fall (excluding transport)	
2	INJ_12 = 1	Transportation accident	
3	INJ_12 = 2	Accidentally bumped, pushed, bitten, etc. by person or animal	
4	INJ_12=3	Accidentally struck or crushed	
5	INJ_12=4	Accidental contact - sharp object, tool, machine	
6	INJ_12=5	Smoke, fire, flames	
7	INJ_12=6	Accidental contact - hot object, liquid or gas	
8	INJ_12=7	Extreme weather or natural disaster	
9	INJ_12=8	Overexertion or strenuous movement	
10	INJ_12=9	Physical assault	
11	INJ_12=10	Other	

### 2 ) Cause of Injury by Place of Occurrence

**Variable name:** INJDCBP

**Based on:** INJ\_08, INJDCAU

**Description:** This variable categorizes cause of injury by its place of occurrence.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable was derived by creating a matrix between all possible answers in the derived variable INJDCAU (cause of injury) with all possible answers in question INJ\_08 (place of occurrence). The 'Other cause of injury' category can include such accidents as those caused by electrical current, firearms, and ski-lifts. Respondents who did not suffer any injuries in the 12 months before the interview have been excluded from the population.

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
9996	INJFOPT = 2	Module not selected	NA
9996	INJ_01 = 2	Population exclusion	NA
9999	(INJ_08 = DK, R, NS) or INJDCAU=NS	At least one required question was not answered (don't know, refusal, not stated)	NS
100	INJDCAU=1 and INJ_08=1	Fall - Home	
110	INJDCAU=1 and INJ_08=2	Fall - Residential institution	
120	INJDCAU=1 and INJ_08=3	Fall - School, college, university (excluding sports areas)	
130	INJDCAU=1 and INJ_08=6	Fall - Other institution	
141	INJDCAU=1 and INJ_08=4	Fall - Sports or athletics area of school, college, university	
142	INJDCAU=1 and INJ_08=5	Fall - Other sports or athletics area (excluding school, college, university)	
150	INJDCAU=1 and INJ_08=7	Fall - Street, highway, sidewalk	
160	INJDCAU=1 and INJ_08=8	Fall - Commercial area	
170	INJDCAU=1 and INJ_08=9	Fall - Industrial, construction area	
180	INJDCAU=1 and INJ_08=10	Fall - Farm	
191	INJDCAU=1 and INJ_08=11	Fall - Countryside, forest, lake, ocean, mountains, prairie, etc.	
192	INJDCAU=1 and INJ_08=12	Fall - Other place	
200	INJDCAU=2 and INJ_08=1	Transportation - Home	
210	INJDCAU=2 and INJ_08=2	Transportation - Residential institution	
220	INJDCAU=2 and INJ_08=3	Transportation - School, college, university (excluding sports areas)	
230	INJDCAU=2 and INJ_08=6	Transportation - Other institution	
241	INJDCAU=2 and INJ_08=4	Transportation - Sports or athletics area of school, college, university	
242	INJDCAU=2 and INJ_08=5	Transportation - Other sports or athletics area (excluding school, college, university)	
250	INJDCAU=2 and INJ_08=7	Transportation - Street, highway, sidewalk	
260	INJDCAU=2 and INJ_08=8	Transportation - Commercial area	
270	INJDCAU=2 and INJ_08=9	Transportation - Industrial, construction area	
280	INJDCAU=2 and INJ_08=10	Transportation - Farm	



291	INJDCAU=2 and INJ_08=11	Transportation - Countryside, forest, lake, ocean, mountains, prairie, etc.
292	INJDCAU=2 and INJ_08=12	Transportation - Other place
300	INJDCAU=3 and INJ_08=1	Bump, push, bite - Home
310	INJDCAU=3 and INJ_08=2	Bump, push, bite - Residential institution
320	INJDCAU=3 and INJ_08=3	Bump, push, bite - School, college, university (excluding sports areas)
330	INJDCAU=3 and INJ_08=6	Bump, push, bite - Other institution
341	INJDCAU=3 and INJ_08=4	Bump, push, bite - Sports or athletics area of school, college, university
342	INJDCAU=3 and INJ_08=5	Bump, push, bite - Other sports or athletics area (excluding school, college, university)
350	INJDCAU=3 and INJ_08=7	Bump, push, bite - Street, highway, sidewalk
360	INJDCAU=3 and INJ_08=8	Bump, push, bite - Commercial area
370	INJDCAU=3 and INJ_08=9	Bump, push, bite - Industrial, construction area
380	INJDCAU=3 and INJ_08=10	Bump, push, bite - Farm
391	INJDCAU=3 and INJ_08=11	Bump, push, bite - Countryside, forest, lake, ocean, mountains, prairie, etc.
392	INJDCAU=3 and INJ_08=12	Bump, push, bite - Other place
400	INJDCAU=4 and INJ_08=1	Struck, crush (object) - Home
410	INJDCAU=4 and INJ_08=2	Struck, crush (object) - Residential institution
420	INJDCAU=4 and INJ_08=3	Struck, crush (object) - School, college, university (excluding sports areas)
430	INJDCAU=4 and INJ_08=6	Struck, crush (object) - Other institution
441	INJDCAU=4 and INJ_08=4	Struck, crush (object) - Sports or athletics area of school, college, university
442	INJDCAU=4 and INJ_08=5	Struck, crush (object) - Other sports or athletics area (excluding school, college, university)
450	INJDCAU=4 and INJ_08=7	Struck, crush (object) - Street, highway, sidewalk
460	INJDCAU=4 and INJ_08=8	Struck, crush (object) - Commercial area
470	INJDCAU=4 and INJ_08=9	Struck, crush (object) - Industrial, construction area
480	INJDCAU=4 and INJ_08=10	Struck, crush (object) - Farm
491	INJDCAU=4 and INJ_08=11	Struck, crush (object) - Countryside, forest, lake, ocean, mountains, prairie, etc.
492	INJDCAU=4 and INJ_08=12	Struck, crush (object) - Other place

500	INJDCAU=5 and INJ_08=1	Contact, sharp object - Home
510	INJDCAU=5 and INJ_08=2	Contact, sharp object - Residential institution
520	INJDCAU=5 and INJ_08=3	Contact, sharp object - School, college, university (excluding sports areas)
530	INJDCAU=5 and INJ_08=6	Contact, sharp object - Other institution
541	INJDCAU=5 and INJ_08=4	Contact, sharp object - Sports or athletics area of school, college, university
542	INJDCAU=5 and INJ_08=5	Contact, sharp object - Other sports or athletics area (excluding school, college, university)
550	INJDCAU=5 and INJ_08=7	Contact, sharp object - Street, highway, sidewalk
560	INJDCAU=5 and INJ_08=8	Contact, sharp object - Commercial area
570	INJDCAU=5 and INJ_08=9	Contact, sharp object - Industrial, construction area
580	INJDCAU=5 and INJ_08=10	Contact, sharp object - Farm
591	INJDCAU=5 and INJ_08=11	Contact, sharp object - Countryside, forest, lake, ocean, mountains, prairie, etc.
592	INJDCAU=5 and INJ_08=12	Contact, sharp object - Other place
600	INJDCAU=6 and INJ_08=1	Smoke, fire, flames - Home
610	INJDCAU=6 and INJ_08=2	Smoke, fire, flames - Residential institution
620	INJDCAU=6 and INJ_08=3	Smoke, fire, flames - School, college, university (excluding sports areas)
630	INJDCAU=6 and INJ_08=6	Smoke, fire, flames - Other institution
641	INJDCAU=6 and INJ_08=4	Smoke, fire, flames - Sports or athletics area of school, college, university
642	INJDCAU=6 and INJ_08=5	Smoke, fire, flames - Other sports or athletics area (excluding school, college, university)
650	INJDCAU=6 and INJ_08=7	Smoke, fire, flames - Street, highway, sidewalk
660	INJDCAU=6 and INJ_08=8	Smoke, fire, flames - Commercial area
670	INJDCAU=6 and INJ_08=9	Smoke, fire, flames - Industrial, construction area
680	INJDCAU=6 and INJ_08=10	Smoke, fire, flames - Farm
691	INJDCAU=6 and INJ_08=11	Smoke, fire, flames - Countryside, forest, lake, ocean, mountains, prairie, etc.
692	INJDCAU=6 and INJ_08=12	Smoke, fire, flames - Other place
700	INJDCAU=7 and INJ_08=1	Contact, hot object, liquid or gas - Home
710	INJDCAU=7 and INJ_08=2	Contact, hot object, liquid or gas - Residential institution

720	INJDCAU=7 and INJ_08=3	Contact, hot object, liquid or gas - School, college, university (excluding sports areas)
730	INJDCAU=7 and INJ_08=6	Contact, hot object, liquid or gas - Other institution
741	INJDCAU=7 and INJ_08=4	Contact, hot object, liquid or gas - Sports or athletics area of school, college, university
742	INJDCAU=7 and INJ_08=5	Contact, hot object, liquid or gas - Other sports or athletics area (excluding school, college, university)
750	INJDCAU=7 and INJ_08=7	Contact, hot object, liquid or gas - Street, highway, sidewalk
760	INJDCAU=7 and INJ_08=8	Contact, hot object, liquid or gas - Commercial area
770	INJDCAU=7 and INJ_08=9	Contact, hot object, liquid or gas - Industrial, construction area
780	INJDCAU=7 and INJ_08=10	Contact, hot object, liquid or gas - Farm
791	INJDCAU=7 and INJ_08=11	Contact, hot object, liquid or gas - Countryside, forest, lake, ocean, mountains, prairie, etc.
792	INJDCAU=7 and INJ_08=12	Contact, hot object, liquid or gas - Other place
800	INJDCAU=8 and INJ_08=1	Weather, natural disaster - Home
810	INJDCAU=8 and INJ_08=2	Weather, natural disaster - Residential institution
820	INJDCAU=8 and INJ_08=3	Weather, natural disaster - School, college, university (excluding sports areas)
830	INJDCAU=8 and INJ_08=6	Weather, natural disaster - Other institution
841	INJDCAU=8 and INJ_08=4	Weather, natural disaster - Sports or athletics area of school, college, university
842	INJDCAU=8 and INJ_08=5	Weather, natural disaster - Other sports or athletics area (excluding school, college, university)
850	INJDCAU=8 and INJ_08=7	Weather, natural disaster - Street, highway, sidewalk
860	INJDCAU=8 and INJ_08=8	Weather, natural disaster - Commercial area
870	INJDCAU=8 and INJ_08=9	Weather, natural disaster - Industrial, construction area
880	INJDCAU=8 and INJ_08=10	Weather, natural disaster - Farm
891	INJDCAU=8 and INJ_08=11	Weather, natural disaster - Countryside, forest, lake, ocean, mountains, prairie, etc.
892	INJDCAU=8 and INJ_08=12	Weather, natural disaster - Other place
900	INJDCAU=9 and INJ_08=1	Overextension, strenuous move - Home
910	INJDCAU=9 and INJ_08=2	Overextension, strenuous move - Residential institution
920	INJDCAU=9 and INJ_08=3	Overextension, strenuous move - School, college, university (excluding sports areas)
930	INJDCAU=9 and INJ_08=6	Overextension, strenuous move - Other institution

941	INJDCAU=9 and INJ_08=4	Overextension, strenuous move - Sports or athletics area of school, college, university
942	INJDCAU=9 and INJ_08=5	Overextension, strenuous move - Other sports or athletics area (excluding school, college, university)
950	INJDCAU=9 and INJ_08=7	Overextension, strenuous move - Street, highway, sidewalk
960	INJDCAU=9 and INJ_08=8	Overextension, strenuous move - Commercial area
970	INJDCAU=9 and INJ_08=9	Overextension, strenuous move - Industrial, construction area
980	INJDCAU=9 and INJ_08=10	Overextension, strenuous move - Farm
991	INJDCAU=9 and INJ_08=11	Overextension, strenuous move - Countryside, forest, lake, ocean, mountains, prairie, etc.
992	INJDCAU=9 and INJ_08=12	Overextension, strenuous move - Other place
1000	INJDCAU=10 and INJ_08=1	Assault - Home
1010	INJDCAU=10 and INJ_08=2	Assault - Residential institution
1020	INJDCAU=10 and INJ_08=3	Assault - School, college, university (excluding sports areas)
1030	INJDCAU=10 and INJ_08=6	Assault - Other institution
1041	INJDCAU=10 and INJ_08=4	Assault - Sports or athletics area of school, college, university
1042	INJDCAU=10 and INJ_08=5	Assault - Other sports or athletics area (excluding school, college, university)
1050	INJDCAU=10 and INJ_08=7	Assault - Street, highway, sidewalk
1060	INJDCAU=10 and INJ_08=8	Assault - Commercial area
1070	INJDCAU=10 and INJ_08=9	Assault - Industrial, construction area
1080	INJDCAU=10 and INJ_08=10	Assault - Farm
1091	INJDCAU=10 and INJ_08=11	Assault - Countryside, forest, lake, ocean, mountains, prairie, etc.
1092	INJDCAU=10 and INJ_08=12	Assault - Other place
1100	INJDCAU=11 and INJ_08=1	Other cause - Home
1110	INJDCAU=11 and INJ_08=2	Other cause - Residential institution
1120	INJDCAU=11 and INJ_08=3	Other cause - School, college, university (excluding sports areas)
1130	INJDCAU=11 and INJ_08=6	Other cause - Other institution
1141	INJDCAU=11 and INJ_08=4	Other cause - Sports or athletics area of school, college, university
1142	INJDCAU=11 and INJ_08=5	Other cause - Other sports or athletics area (excluding school, college, university)

1150	INJDCAU=11 and INJ_08=7	Other cause - Street, highway, sidewalk
1160	INJDCAU=11 and INJ_08=8	Other cause - Commercial area
1170	INJDCAU=11 and INJ_08=9	Other cause - Industrial, construction area
1180	INJDCAU=11 and INJ_08=10	Other cause - Farm
1191	INJDCAU=11 and INJ_08=11	Other cause - Countryside, forest, lake, ocean, mountains, prairie, etc.
1192	INJDCAU=11 and INJ_08=12	Other cause - Other place

### 3) Injury Status

**Variable name:** INJDSTT

**Based on:** INJ\_01, INJ\_16

**Description:** This variable indicates the injury status of the respondent.

**Introduced in:** CCHS - Cycle 1.1

#### Specifications

Value	Condition(s)	Description	Notes
6	INJFOPT = 2	Module not selected	NA
9	(INJ_01=DK, R, NS) or (INJ_16=DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	INJ_01=2 and INJ_16=2	No injuries	
1	INJ_01=1 and INJ_16=2	Activity-limiting injury only	
2	INJ_01=2 and INJ_16=1	Treated (non-activity limiting) injury only	
3	INJ_01=1 and INJ_16=1	Both activity-limiting and treated (non-activity limiting) injuries	

### 4) Type of Injury by Body Site

**Variable name:** INJDTBS

**Based on:** INJ\_05, INJ\_06, INJ\_07

**Description:** This variable categorizes injury type by body site.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable was derived by creating a matrix between all possible answers in question INJ\_05 (type of injury) with all possible answers in questions INJ\_06 and INJ\_07 (body part injured). Each combination in the matrix was given a unique code, except for those combinations that are deemed impossible (e.g. dislocation of the eyes).

Note that the answer category « hand-wrist » is, since Cycle 2.1, divided in two separate categories (INJ\_06=7 and INJ\_07=8). These have to be merged in order to compare the cycle 2.1 results with the preceding cycles. Respondents who did not suffer injuries in the 12 months before the interview have been excluded from the population.

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
9996	INJFOPT = 2	Module not selected	NA
9996	INJ_01=2	Population exclusions	NA
9999	(INJ_05=DK, R, NS) or (INJ_06=DK, R, NS) or (INJ_07=DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
9999	[(INJ_05=2, 4, 5) and INJ_06=2] or [INJ_05=4 and INJ_06=10]	Impossible combination (Fractures - Eyes Dislocation - Eyes Sprain or strain - Eyes Dislocation - Thigh)	NS
101	INJ_05=1 and INJ_06=1	Multiple injuries - Multiple sites	
102	INJ_05=1 and INJ_06=2	Multiple injuries - Eyes	
103	INJ_05=1 and INJ_06=3	Multiple injuries - Head (excl. eyes)	
104	INJ_05=1 and INJ_06=4	Multiple injuries - Neck	
105	INJ_05=1 and INJ_06=5	Multiple injuries - Shoulder, upper arm	
106	INJ_05=1 and INJ_06=6	Multiple injuries - Elbow, lower arm	
108	INJ_05=1 and INJ_06=9	Multiple injuries - Hip	
109	INJ_05=1 and INJ_06=10	Multiple injuries - Thigh	
110	INJ_05=1 and INJ_06=11	Multiple injuries - Knee, lower leg	
111	INJ_05=1 and INJ_06=12	Multiple injuries - Ankle, foot	
112	INJ_05=1 and INJ_06=13	Multiple injuries - Upper back or upper spine	
113	INJ_05=1 and INJ_06=14	Multiple injuries - Lower back or lower spine	
114	INJ_05=1 and INJ_06=15	Multiple injuries - Chest (excl. back and spine)	
115	INJ_05=1 and INJ_06=16	Multiple injuries - Abdomen or pelvis (excl. back and spine)	
117	INJ_05=1 and INJ_06=7	Multiple injuries - Wrist	
118	INJ_05=1 and INJ_06=8	Multiple injuries - Hand	
201	INJ_05=2 and INJ_06=1	Fractures - Multiple sites	
203	INJ_05=2 and INJ_06=3	Fractures - Head (excl. eyes)	
204	INJ_05=2 and INJ_06=4	Fractures - Neck	

205	INJ_05=2 and INJ_06=5	Fractures - Shoulder, upper arm
206	INJ_05=2 and INJ_06=6	Fractures - Elbow, lower arm
208	INJ_05=2 and INJ_06=9	Fractures - Hip
209	INJ_05=2 and INJ_06=10	Fractures - Thigh
210	INJ_05=2 and INJ_06=11	Fractures - Knee, lower leg
211	INJ_05=2 and INJ_06=12	Fractures - Ankle, foot
212	INJ_05=2 and INJ_06=13	Fractures - Upper back or upper spine
213	INJ_05=2 and INJ_06=14	Fractures - Lower back or lower spine
214	INJ_05=2 and INJ_06=15	Fractures - Chest (excl. back and spine)
215	INJ_05=2 and INJ_06=16	Fractures - Abdomen or pelvis (excl. back and spine)
217	INJ_05=2 and INJ_06=7	Fractures - Wrist
218	INJ_05=2 and INJ_06=8	Fractures - Hand
301	INJ_05=3 and INJ_06=1	Burn or scald - Multiple sites
302	INJ_05=3 and INJ_06=2	Burn or scald - Eyes
303	INJ_05=3 and INJ_06=3	Burn or scald - Head (excl. eyes)
304	INJ_05=3 and INJ_06=4	Burn or scald - Neck
305	INJ_05=3 and INJ_06=5	Burn or scald - Shoulder, upper arm
306	INJ_05=3 and INJ_06=6	Burn or scald - Elbow, lower arm
308	INJ_05=3 and INJ_06=9	Burn or scald - Hip
309	INJ_05=3 and INJ_06=10	Burn or scald - Thigh
310	INJ_05=3 and INJ_06=11	Burn or scald - Knee, lower leg
311	INJ_05=3 and INJ_06=12	Burn or scald - Ankle, foot
312	INJ_05=3 and INJ_06=13	Burn or scald - Upper back or upper spine
313	INJ_05=3 and INJ_06=14	Burn or scald - Lower back or lower spine
314	INJ_05=3 and INJ_06=15	Burn or scald - Chest (excl. back and spine)
315	INJ_05=3 and INJ_06=16	Burn or scald - Abdomen or pelvis (excl. back and spine)

317	INJ_05=3 and INJ_06=7	Burn or scald - Wrist
318	INJ_05=3 and INJ_06=8	Burn or scald - Hand
401	INJ_05=4 and INJ_06=1	Dislocation - Multiple sites
403	INJ_05=4 and INJ_06=3	Dislocation - Head (excl. eyes)
404	INJ_05=4 and INJ_06=4	Dislocation - Neck
405	INJ_05=4 and INJ_06=5	Dislocation - Shoulder, upper arm
406	INJ_05=4 and INJ_06=6	Dislocation - Elbow, lower arm
408	INJ_05=4 and INJ_06=9	Dislocation - Hip
410	INJ_05=4 and INJ_06=11	Dislocation - Knee, lower leg
411	INJ_05=4 and INJ_06=12	Dislocation - Ankle, foot
412	INJ_05=4 and INJ_06=13	Dislocation - Upper back or upper spine
413	INJ_05=4 and INJ_06=14	Dislocation - Lower back or lower spine
414	INJ_05=4 and INJ_06=15	Dislocation - Chest (excl. back and spine)
415	INJ_05=4 and INJ_06=16	Dislocation - Abdomen or pelvis (excl. back and spine)
417	INJ_05=4 and INJ_06=7	Dislocation - Wrist
418	INJ_05=4 and INJ_06=8	Dislocation - Hand
501	INJ_05=5 and INJ_06=1	Sprain or strain - Multiple sites
503	INJ_05=5 and INJ_06=3	Sprain or strain - Head (excl. eyes)
504	INJ_05=5 and INJ_06=4	Sprain or strain - Neck
505	INJ_05=5 and INJ_06=5	Sprain or strain - Shoulder, upper arm
506	INJ_05=5 and INJ_06=6	Sprain or strain - Elbow, lower arm
508	INJ_05=5 and INJ_06=9	Sprain or strain - Hip
509	INJ_05=5 and INJ_06=10	Sprain or strain - Thigh
510	INJ_05=5 and INJ_06=11	Sprain or strain - Knee, lower leg
511	INJ_05=5 and INJ_06=12	Sprain or strain - Ankle, foot
512	INJ_05=5 and INJ_06=13	Sprain or strain - Upper back or upper spine



513	INJ_05=5 and INJ_06=14	Sprain or strain - Lower back or lower spine
514	INJ_05=5 and INJ_06=15	Sprain or strain - Chest (excl. back and spine)
515	INJ_05=5 and INJ_06=16	Sprain or strain - Abdomen or pelvis (excl. back and spine)
517	INJ_05=5 and INJ_06=7	Sprain or strain - Wrist
518	INJ_05=5 and INJ_06=8	Sprain or strain - Hand
601	INJ_05=6 and INJ_06=1	Cut, puncture, bite - Multiple sites
602	INJ_05=6 and INJ_06=2	Cut, puncture, bite - Eyes
603	INJ_05=6 and INJ_06=3	Cut, puncture, bite - Head (excl. eyes)
604	INJ_05=6 and INJ_06=4	Cut, puncture, bite - Neck
605	INJ_05=6 and INJ_06=5	Cut, puncture, bite - Shoulder, upper arm
606	INJ_05=6 and INJ_06=6	Cut, puncture, bite - Elbow, lower arm
608	INJ_05=6 and INJ_06=9	Cut, puncture, bite - Hip
609	INJ_05=6 and INJ_06=10	Cut, puncture, bite - Thigh
610	INJ_05=6 and INJ_06=11	Cut, puncture, bite - Knee, lower leg
611	INJ_05=6 and INJ_06=12	Cut, puncture, bite - Ankle, foot
612	INJ_05=6 and INJ_06=13	Cut, puncture, bite - Upper back or upper spine
613	INJ_05=6 and INJ_06=14	Cut, puncture, bite - Lower back or lower spine
614	INJ_05=6 and INJ_06=15	Cut, puncture, bite - Chest (excl. back and spine)
615	INJ_05=6 and INJ_06=16	Cut, puncture, bite - Abdomen or pelvis (excl. back and spine)
617	INJ_05=6 and INJ_06=7	Cut, puncture, bite - Wrist
618	INJ_05=6 and INJ_06=8	Cut, puncture, bite - Hand
701	INJ_05=7 and INJ_06=1	Scrape, bruise - Multiple sites
702	INJ_05=7 and INJ_06=2	Scrape, bruise - Eyes
703	INJ_05=7 and INJ_06=3	Scrape, bruise - Head (excl. eyes)
704	INJ_05=7 and INJ_06=4	Scrape, bruise - Neck
705	INJ_05=7 and INJ_06=5	Scrape, bruise - Shoulder, upper arm

706	INJ_05=7 and INJ_06=6	Scrape, bruise - Elbow, lower arm
708	INJ_05=7 and INJ_06=9	Scrape, bruise - Hip
709	INJ_05=7 and INJ_06=10	Scrape, bruise - Thigh
710	INJ_05=7 and INJ_06=11	Scrape, bruise - Knee, lower leg
711	INJ_05=7 and INJ_06=12	Scrape, bruise - Ankle, foot
712	INJ_05=7 and INJ_06=13	Scrape, bruise - Upper back or upper spine
713	INJ_05=7 and INJ_06=14	Scrape, bruise - Lower back or lower spine
714	INJ_05=7 and INJ_06=15	Scrape, bruise - Chest (excl. back and spine)
715	INJ_05=7 and INJ_06=16	Scrape, bruise - Abdomen or pelvis (excl. back and spine)
717	INJ_05=7 and INJ_06=7	Scrape, bruise - Wrist
718	INJ_05=7 and INJ_06=8	Scrape, bruise - Hand
800	INJ_05=8	Concussion, brain injury - Head (excl. eyes)
900	INJ_05=9	Poisoning - Systemic effect
1014	INJ_05=10 and INJ_07=1	Injury to internal organs - Chest (within rib cage)
1015	INJ_05=10 and INJ_07=2	Injury to internal organs - Abdomen or pelvis (below ribs)
1016	INJ_05=10 and INJ_07=3	Injury to internal organs - Other site
1101	INJ_05=11 and INJ_06=1	Other injury - Multiple sites
1102	INJ_05=11 and INJ_06=2	Other injury - Eyes
1103	INJ_05=11 and INJ_06=3	Other injury - Head (excluding eyes)
1104	INJ_05=11 and INJ_06=4	Other injury - Neck
1105	INJ_05=11 and INJ_06=5	Other injury - Shoulder, upper arm
1106	INJ_05=11 and INJ_06=6	Other injury - Elbow, lower arm
1108	INJ_05=11 and INJ_06=9	Other injury - Hip
1109	INJ_05=11 and INJ_06=10	Other injury - Thigh
1110	INJ_05=11 and INJ_06=11	Other injury - Knee, lower leg
1111	INJ_05=11 and INJ_06=12	Other injury - Ankle, foot

1112	INJ_05=11 and INJ_06=13	Other injury - Upper back or upper spine
1113	INJ_05=11 and INJ_06=14	Other injury - Lower back or lower spine
1114	INJ_05=11 and INJ_06=15	Other injury - Chest (excluding back and spine)
1115	INJ_05=11 and INJ_06=16	Other injury - Abdomen or pelvis (excluding back and spine)
1117	INJ_05=11 and INJ_06=7	Other injury - Wrist
1118	INJ_05=11 and INJ_06=8	Other injury - Hand

## 5) Number of injuries in past 12 months

**Variable name:** INJG02

**Based on:** INJ\_02

**Description:** The number of injuries in past 12 months. This is a regrouping of INJ\_02.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
1	INJ_02 = 1	Respondent had 1 injury in the past 12 months.	
2	INJ_02 = 2	Respondent had 2 injuries in the past 12 months.	
3	3=<INJ_02=<5	Respondent had 3 to 5 injuries in the past 12 months.	
4	INJ_02>=6	Respondent had 6 or more injuries in the past 12 months.	
6	96=<INJ_02=<98	Not stated	
9	INJ_02 = 99	Not applicable	

## 6) Most Serious Injury

**Variable name:** INJG05

**Based on:** INJ\_05

**Description:** This variable groups the responses of most serious injury.

**Introduced in:** CCHS Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
NA	INJ_05 = NA	Not applicable	

NS	INJ_05 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
1	INJ_05 = 1	Multiple injuries
2	INJ_05 = 2	Broken/fractured bones
3	INJ_05 = 3, 9	Burn/Scald/Chemical/ Poisoning
4	INJ_05 = 4	Dislocation
5	INJ_05 = 5	Sprain/strain
6	INJ_05 = 6	Cut/puncture/bite
7	INJ_05 = 7	Scrape/bruise/blister
8	INJ_05 = 8, 10	Concussion/internal injury
9	INJ_05 = 11	Other

### 7) Most Serious Injury - body part affected - Grouped

**Variable name:** INJG06  
**Based on:** INJ\_06  
**Description:** This variable groups the most serious injury by body part affected.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
NA	INJ_06 = NA	Not applicable	
NS	INJ_06 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)	
1	INJ_06 = 1	Multiple sites	
2	INJ_06 = 2, 3, 4	Eyes/head/neck	
3	INJ_06 = 5	Shoulder/upper arm	
4	INJ_06 = 6	Elbow/lower arm	
5	(INJ_06 = 7, 8)	Wrist or hand	
6	(INJ_06 = 9, 10)	Hip/thigh	
7	INJ_06 = 11	Knee/lower leg	
8	INJ_06 = 12	Ankle/foot	
9	(INJ_06 = 13, 14)	Upper or lower back/upper or lower spine	
10	(INJ_06 = 15, 16)	Chest/abdomen/pelvis (excluding back and spine)	

### 8) Most Serious Injury - Place of occurrence - Grouped

**Variable name:** INJG08  
**Based on:** INJ\_08

**Description:** This variable groups the responses of most serious injury by place of occurrence.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	INJ_01 = 2	Respondent did not suffer an injury	NA
99	(INJ_08 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	INJ_08 = 1	In a home or its surrounding area	
2	(INJ_08 = 2, 3, 6)	Residential institution/school, college, university/other institution	
3	INJ_08 = 4	Sports or athletic area in school, college, university	
4	INJ_08 = 5	Other sports or athletic area	
5	INJ_08 = 7	Street, highway, sidewalk	
6	INJ_08 = 8	Commercial area	
7	(INJ_08 = 9, 10)	Industrial or construction area or farm	
8	(INJ_08 = 11, 12)	Other (includes countryside, forest, lake, ocean, mountains, prairie, etc.)	

## 9) Most Serious Injury - Activity when injured - Grouped

**Variable name:** INJG09

**Based on:** INJ\_09

**Description:** This variable groups the responses of most serious injury by activity when injured.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	INJ_01 = 2	Respondent did not suffer an injury	NA
99	(INJ_09 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	INJ_09 = 1	Sport or physical exercise	
2	INJ_09 = 2	Leisure or hobby	
3	INJ_09 = 3	Working at a job or business	
4	INJ_09 = 4	Travel to or from work	
5	INJ_09 = 5	Household chores, other unpaid work or education	
6	(INJ_09 = 6, 7)	Other, including sleeping, eating, personal care	

## 10) Most Serious Injury - How fell - Grouped

**Variable name:** INJG11

**Based on:** INJ\_11

**Description:** This variable groups the responses of most serious injury by how the respondent fell.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	INJ_01 = 2	Respondent did not suffer an injury	NA
6	INJ_10 = 2	Respondent did not suffer an injury as a result of a fall	NA
9	(INJ_11 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	INJ_11 = 1	While skating, skiing, snowboarding, in-line skating or skateboarding	
2	(INJ_11 = 2, 5, 6)	Going up or down stairs/steps/from furniture/from elevated position	
3	INJ_11 = 3	Slip, trip, stumble on ice or snow	
4	INJ_11 = 4	Slip, trip, stumble on any other surface	
5	INJ_11 = 7	Other	

## 11 ) Most Serious Injury - Treated in clinic - Grouped

**Variable name:** INJG14C

**Based on:** INJ\_14C, INJ\_14D, INJ\_14E, INJ\_14F

**Description:** This variable groups the responses according to whether the most serious injury was treated in a clinic.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	INJ_14C = NA	Respondent did not suffer an injury or did not receive medical attention within 48 hours.	NA
9	(INJ_14C = DK, R, NS) or (INJ_14D = DK, R, NS) or (INJ_14E = DK, R, NS) or (INJ_14F = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	INJ_14C = 1 or INJ_14D = 1 or INJ_14E = 1 or INJ_14F = 1	Most serious injury treated in: a hospital outpatient clinic, walk-in clinic, appointment clinic, community health centre, or CLSC.	
2	INJ_14C = 2 and INJ_14D = 2 and INJ_14E = 2 and INJ_14F = 2	Most serious injury not treated in: a hospital outpatient clinic, walk-in clinic, appointment clinic, community health centre, or CLSC.	

**12) Most Serious Injury - Treated at work/school/home - Grouped****Variable name:** INJG14G**Based on:** INJ\_14G, INJ\_14H, INJ\_14I**Description:** This variable groups the responses according to whether the most serious injury was treated at work, school or home.**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	INJ_14G = NA	Respondent did not suffer an injury or did not receive medical attention within 48 hours	NA
9	(INJ_14G = DK, R, NS) or (INJ_14H = DK, R, NS) or (INJ_14I = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	INJ_14G = 1 or INJ_14H = 1 or INJ_14I = 1	Most serious injury treated at work/school/home	
2	INJ_14G = 2 and INJ_14H = 2 and INJ_14I = 2	Most serious injury not treated at work/school/home	

**13) Most Serious Injury - Other method of treatment - Grouped****Variable name:** INJG14J**Based on:** INJ\_14J, INJ\_14K**Description:** This variable groups the responses according to whether the most serious injury was treated with a telephone consultation or in some other place.**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	INJ_14J = NA	Respondent did not suffer an injury or did not receive medical attention within 48 hours	NA
9	(INJ_14J = DK, R, NS) or (INJ_14K = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	INJ_14J = 1 or INJ_14K = 1	Most serious injury treated with a telephone consultation or in some other place	
2	INJ_14J = 2 and INJ_14K = 2	Most serious injury not treated with a telephone consultation or in some other place	

**14) Other injuries - number (G)**

**Variable name:** INJG17  
**Based on:** INJ\_17  
**Description:** This variable groups the responses of number of other injuries.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	INJ_17 = 96	Not Applicable	
7	INJ_17 = 97	Don't Know	
9	INJ_17 = 99	Not stated	
1	INJ_17 = 1	1 injury	
2	2=<INJ_17=<5	2 to 5 injuries	
3	6=<INJ_17	6 or more injuries	

## 15) Cause of Injury - Grouped

**Variable name:** INJGCAU  
**Based on:** INJ\_10, INJ\_12  
**Description:** This variable categorizes the respondent's cause of injury.  
**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who did not suffer any injuries in the past 12 months before the interview have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	INJ_01= 2	Population exclusion	NA
99	(INJ_10 = 2, DK, R, NS) and (INJ_12 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	INJ_10 = 1	Fall (excluding transport)	
2	INJ_12 = 1	Transportation accident	
3	INJ_12 = 2	Accidentally bumped, pushed, bitten, etc. by person or animal	
4	INJ_12 = 3	Accidentally struck or crushed by object(s)	
5	INJ_12 = 4	Accidental contact - sharp object, tool, machine	
6	INJ_12 = 8	Overexertion or strenuous movement	
7	INJ_12 = 5 or INJ_12 = 6 or INJ_12 = 7 or INJ_12 = 9 or INJ_12 = 10	Other, including: - smoke, fire, flames - accidental contact with hot object, liquid or gas - extreme weather or natural disaster physical assault	





## Labour force (7 DVs)

### 1) Total usual hours worked per week

**Variable name:** LBSDHPW

**Based on:** LBS\_42, LBS\_53

**Description:** This variable indicates the total number of hours the respondent worked per week.

**Introduced in:** CCHS - Cycle 3.1

**Note:** Respondents aged less than 15 or more than 75 years old or who did not work in the week prior to the interview have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	DHH_AGE < 15 or DHH_AGE > 75 or LBS_42 = NA	Population exclusion	NA
999	(LBS_42 = DK, R, NS) or (LBS_53 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
LBS_42	LBS_42 < NA and LBS_53 = NA	Number of hours usually worked for respondents with one job	
LBS_42 + LBS_53	LBS_42 < NA and LBS_53 < NA	Number of total hours usually worked for respondents with more than one job	

### 2) Industry Group

**Variable name:** LBSDING

**Based on:** LBSCSIC

**Description:** This variable indicates the industry group the respondent belongs to using the North American Industry Classification System (NAICS) 2002 at the 2-digit level.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Respondents aged less than 15 years or more than 75 years have been excluded from the population. At collection, data is using a SIC (Standard Industrial classification) code when an appropriate code is found. Subsequently, an appropriate 4-digit NAICS code is found using the SIC code or with the use of other data. The 4-digit NAICS code is then rolled up to the 2 digit standard classification.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE < 15 or DHH_AGE > 75 or LBSDWSS = 3 or 4	Population exclusions	NA
99	LBSCSIC = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
01	1st 2 digits in LBSCSIC = 11	Agriculture, Forestry, Fishing and Hunting	
02	1st 2 digits in LBSCSIC = 21	Mining and Oil and Gas Extraction	

03	1st 2 digits in LBSCSIC = 22	Utilities
04	1st 2 digits in LBSCSIC = 23	Construction
05	1st 2 digits in LBSCSIC = 31 or 32 or 33	Manufacturing
06	1st 2 digits in LBSCSIC = 41	Wholesale Trade
07	1st 2 digits in LBSCSIC = 44 or LBSCSIC = 45	Retail Trade
08	1st 2 digits in LBSCSIC = 48 or LBSCSIC = 49	Transportation and Warehousing
09	1st 2 digits in LBSCSIC = 51	Information and Cultural Industries
10	1st 2 digits in LBSCSIC = 52	Finance and Insurance
11	1st 2 digits in LBSCSIC = 53	Real Estate and Rental and Leasing
12	1st 2 digits in LBSCSIC = 54	Professional, Scientific and Technical Services
13	1st 2 digits in LBSCSIC = 55	Management of Companies and Enterprises
14	1st 2 digits in LBSCSIC = 56	Administrative and Support, Waste Management and Remediation Services
15	1st 2 digits in LBSCSIC = 61	Educational Services
16	1st 2 digits in LBSCSIC = 62	Health Care and Social Assistance
17	1st 2 digits in LBSCSIC = 71	Arts, Entertainment and Recreation
18	1st 2 digits in LBSCSIC = 72	Accommodation and Food Services
19	1st 2 digits in LBSCSIC = 81	Other Services (except Public Administration)
20	1st 2 digits in LBSCSIC = 91	Public Administration
95	LBSCSIC = XXXX	Could not be coded

### 3) Occupation Group

**Variable name:** LBSDOCG

**Based on:** LBSCSOC

**Description:** This variable indicates the occupation group the respondent belongs to using the National Occupational Classification - Statistics (NOC-S) 2001 at the 2-digit level.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Respondents aged less than 15 years or more than 75 years have been excluded from the population. At collection, data is using a SOC (Standard Occupation Classification) code when an appropriate code is found. Subsequently, an appropriate 4-digit NOC-S code is found using the SOC code or text information with the use of other data. The 4-digit NOC-S code is then rolled up to a NOC-S 1-digit code.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE < 15 or DHH_AGE > 75 or LBSDWSS = 3 or 4	Population exclusions	NA
99	LBSCSOC = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
01	First digit in LBSCSOC = A	Management Occupations	
02	First digit in LBSCSOC = B	Business, Finance and Administration Occupations	

03	First digit in LBSCSOC = C	Natural and Applied Sciences and Related Occupations
04	First digit in LBSCSOC = D	Health Occupations
05	First digit in LBSCSOC = E	Occupations in Social Science, Education, Government Service and Religion
06	First digit in LBSCSOC = F	Occupations in Art, Culture, Recreation and Sport
07	First digit in LBSCSOC = G	Sales and Service Occupations
08	First digit in LBSCSOC = H	Trades, Transport and Equipment Operators and Related Occupations
09	First digit in LBSCSOC = I	Occupations Unique to Primary Industry
10	First digit in LBSCSOC = J	Occupations Unique to Processing, Manufacturing and Utilities
95	LBSCSOC = XXXX	Could not be coded

#### 4) Full-time/part-time working status (for total usual hours)

**Variable name:** LBDPFT  
**Based on:** LBSDHPW  
**Description:** This variable indicates if the respondent works full-time or part-time.  
**Introduced in:** CCHS - Cycle 3.1

**Note:** Respondents aged less than 15 or more than 75 years old or who did not work in the week prior to the interview have been excluded from the population.

##### Specifications

Value	Condition(s)	Description	Notes
6	LBSDHPW = NA	Population exclusion	NA
9	LBSDHPW = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	LBSDHPW >= 30	Full-time	
2	LBSDHPW < 30	Part-time	

#### 5) Working status last week

**Variable name:** LBDWSS  
**Based on:** LBS\_01, LBS\_02  
**Description:** This variable classifies the respondent based on his/her working status in the week prior to the interview.  
**Introduced in:** CCHS - Cycle 3.1

**Note:** Respondents aged less than 15 or more than 75 years old have been excluded from the population.

##### Specifications

Value	Condition(s)	Description	Notes
6	DHH_AGE < 15 or DHH_AGE > 75	Population exclusion	NA
1	LBS_01 = 1	Worked at a job or business	
2	LBS_02 = 1	Had a job but did not work (absent)	
3	LBS_02 = 2	Did not have a job	
4	LBS_01 = 3	Permanently unable to work	
9	(LBS_02 = DK, R, NS) or (LBS_01 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 6) Employment status - 12 months - (G)

**Variable name:** LBSG31  
**Based on:** LBS\_31  
**Description:** This variable groups the employment status of the respondent.  
**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
6	LBS_31 = 6	Not Applicable	
9	LBS_31 = 9	Not Stated	
1	LBS_31 = 1	Employee	
2	2=<LBS_31=<3	Self-employed	

## 7) Occupation group - (G)

**Variable name:** LBSGSOC  
**Based on:** LBSDOCG  
**Description:** This variable groups the occupation classification of the respondent.  
**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
6	LBSDOCG = 96	Respondent did not work at a job or business in the past year or age was out of range	
9	LBSDOCG = 95, 99	Respondent refused, did not know, or did not state their occupation or their occupation was uncodable	
1	LBSDOCG = '01', '03', '04', '05', '06'	Occupations relating to Management, Natural and Applied Sciences, Health, Social Sciences, Education, Religion, Art, Culture and Recreation	

2	LBSDOCG = '02'	Occupations relating to Business, Finance, Administration
3	LBSDOCG = '07'	Occupations relating to Sales and Service
4	LBSDOCG = '08'	Occupations relating to Trades, Transport and Equipment Operator
5	LBSDOCG = '09', '10'	Occupations Unique to Primary Industry, Processing, Manufacturing and Utilities

## Mastery (1 DV)

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>MAST601</b> (MAS_601 – 1)	MAS_601 <= 5	Rescale the answers for questions	
<b>MAST602</b> (MAS_602 – 1)	MAS_602 <= 5	Rescale the answers for questions	
<b>MAST603</b> (MAS_603 – 1)	MAS_603 <= 5	Rescale the answers for questions	
<b>MAST604</b> (MAS_604 – 1)	MAS_604 <= 5	Rescale the answers for questions	
<b>MAST605</b> (MAS_605 – 1)	MAS_605 <= 5	Rescale the answers for questions	
<b>MAST606</b> (4 – MAST606)	MAST606 <= 4	Invert scale for rescaled questions	
(MAS_606 – 1)	MAS_606 <= 5	Rescale the answers for questions	
<b>MAST607</b> (4 – MAST607)	MAST607 <= 4	Invert scale for rescaled questions	
(MAS_607 – 1)	MAS_607 <= 5	Rescale the answers for questions	

### 1 ) Derived Mastery Scale

<b>Variable name:</b>	MASDM1
<b>Based on:</b>	MAS_601, MAS_602, MAS_603, MAS_604, MAS_605, MAS_606, MAS_607
<b>Description:</b>	This variable measures sense of mastery, that is, the extent to which individuals believe that their life-chances are under their control.
<b>Introduced in:</b>	CCHS - Cycle 1.1
<b>Note:</b>	Higher scores indicate superior mastery.
<b>Internet site:</b>	<a href="http://www.jstor.org/">www.jstor.org/</a>

Specifications			
Value	Condition(s)	Description	Notes
96	MASFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(MAST601 = DK, R, NS) or (MAST602 = DK, R, NS) or (MAST603 = DK, R, NS) or (MAST604 = DK, R, NS) or (MAST605 = DK, R, NS) or (MAST606 = DK, R, NS) or (MAST607 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
MAST601 + MAST602 + MAST603 + MAST604 + MAST605 + MAST606 +MAST607	(0 <= MAST601 <= 4) and (0 <= MAST602 <= 4) and (0 <= MAST603 <= 4) and (0 <= MAST604 <= 4) and (0 <= MAST605 <= 4) and (0 <= MAST606 <= 4) and (0 <= MAST607 <= 4)	Score obtained on the mastery scale	(min: 0; max: 28)

Reference: Pearlin, LI and Schooler, C, Journal of health and Social Behavior, "The Structure of Coping", 1981, vol.19, p.2-21.

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## Maternal experiences - Breastfeeding (4 DVs)

### 1 ) Length of exclusive breastfeeding

**Variable name:** MEXDEBF

**Based on:** MEX\_03, MEX\_06, MEX\_07

**Description:** This variable provides the length of time that the respondent exclusively breastfed her last baby.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who had not given birth in the past 5 years or who were less than 15 years old or more than 55 years old are excluded from the population. Since the variable is used to measure only the final duration of exclusive breastfeeding, mothers who still breastfed and who had not yet added any other liquid or solid foods to the baby's feeds are also excluded.

#### Specifications

Value	Condition(s)	Description	Notes
96	DHH_SEX = 1 or DHH_AGE < 15 or DHH_AGE > 55 or MEX_01 = 2 or (MEX_05 = 1 and MEX_07 = 13)	Population exclusion	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(MEX_03 = DK, R, NS) or (MEX_06 = DK, R, NS) or (MEX_07 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	MEX_03 = 2	Had not breastfed her last baby	
1	MEX_07 = 1 or (MEX_06 = 1 and MEX_07 = 13)	Less than 1 week	
2	(MEX_07 = 2, 3) or [(MEX_06 = 2, 3) and MEX_07 = 13]	1 week to less than 5 weeks	
3	(MEX_07 = 4, 5) or [(MEX_06 = 4, 5) and MEX_07 = 13]	5 weeks to less than 12 weeks	
4	(MEX_07 = 6, 7) or [(MEX_06 = 6, 7) and MEX_07 = 13]	12 weeks to less than 20 weeks	
5	(MEX_07 = 8, 9) or [(MEX_06 = 8, 9) and MEX_07 = 13]	20 weeks to less than 28 weeks	
6	(MEX_07 = 10, 11) or [(MEX_06 = 10, 11) and MEX_07 = 13]	28 weeks to 1 year	
7	MEX_07 = 12 or (MEX_06 = 12 and MEX_07 = 13)	More than 1 year	

### 2 ) Exclusively breastfed for at least 6 months

**Variable name:** MEXFEB6

**Based on:** MEX\_03, MEX\_06, MEX\_07

**Description:** This variable indicates whether the respondent exclusively breastfed her last baby for at least 6 months.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Health Canada recommends exclusive breastfeeding for a period of 6 months. This variable indicates the number of mothers who followed this recommendation. Respondents who had not given birth in the past 5 years or who were less than 15 years old or more than 55 years old are excluded from the population. Since the variable is used to measure only the final duration of exclusive breastfeeding, mothers who still breastfed and who had not yet added any other liquid or solid foods to the baby's feeds are also excluded.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_SEX = 1 or DHH_AGE < 15 or DHH_AGE > 55 or MEX_01 = 2 or (MEX_05 = 1 and MEX_07 = 13)	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(MEX_03 = DK, R, NS) or (MEX_06 = DK, R, NS) or (MEX_07 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(8 < MEX_07 < 13 ) or [(8 < MEX_06 < NA) and MEX_07 = 13]	Had exclusively breastfed her last baby for at least 6 months	
2	MEX_03 = 2 or MEX_06 < 9 or MEX_07 < 9	Had not exclusively breastfed her last baby for at least 6 months	

### 3) Main reason did not breastfeed last child - Grouped

**Variable name:** MEXG04

**Based on:** MEX\_04

**Description:** This variable provides the reason why the respondent did not breastfeed her last baby.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents who had not given birth in the past 5 years or who were less than 15 years old or more than 55 years old are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_SEX = 1 or DHH_AGE < 15 or DHH_AGE > 55 or MEX_01 = 2 or MEX_03 = 1	Population exclusion	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(MEX_03 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS

1	MEX_04 = 1	Bottle feeding easier
2	MEX_04 = 2	Formula as good as breast milk
3	MEX_04 = 3	Breastfeeding is unappealing/disgusting
4	MEX_04 = 4	Father/partner didn't want me to
5	MEX_04 = 5	Returned to work/school early
6	(MEX_04 = 6, 7, 8, 9, 10)	C-section, medical condition - mother or baby, premature birth, multiple births (e.g. twins)
7	(MEX_04 = 11, 12)	Wanted to drink alcohol or smoke
8	(MEX_04 = 13)	Other

#### 4 ) Duration of breastfeeding last child - (G)

**Variable name:** MEXG06

**Based on:** MEX\_06

**Description:** This variable groups the length of time the respondent breastfed her last child.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who had not given birth in the past 5 years or who were less than 15 years old or more than 55 years old are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	MEX_06 = 96	Not applicable	
99	MEX_06 = 97, 98, 99	Not stated	
1	MEX_06 = 1	Less than 1 week	
2	MEX_06 = 2	1 to 2 weeks	
3	MEX_06 = 3	3 to 4 weeks	
4	MEX_06 = 4	5 to 8 weeks	
5	MEX_06 = 5	9 to less than 12 weeks	
6	MEX_06 = 6 or 7	3 to 4 months	
7	MEX_06 = 8 or 9	5 to 6 months	
8	MEX_06 = 10	7 to 9 months	
9	MEX_06 = 11	10 to 12 months	
10	MEX_06 = 12	More than 1 year	

## Height and weight - Measured (5 DVs)

### 1 ) Body Mass Index (BMI) (Measured)

**Variable name:** MHWZDBMI

**Based on:** MHWZDHTM, MHWZDWTK

**Description:** Body Mass Index (BMI) is a comparison of "weight" relative to the "height" of respondents. BMI is calculated by dividing weight in kilograms by height in metres squared.

( BMI = WEIGHT (KG) / HEIGHT (METRES) SQUARED )

**Introduced in:** CCHS - Cycle 3.1

**Note:** BMI is not calculated for pregnant women. Although calculation of BMI is not recommended for lactating women, the index provided here is calculated for women who report that they are breastfeeding (MEX\_05 = 1) to permit comparability with previous CCHS cycles.  
For Cycle 1.1 of CCHS, BMI was calculated only for respondents aged 20-64. Beginning with Cycle 2.1, BMI is calculated for respondents aged 18 and over. With the introduction of a new classification system for people under 18 in Cycle 3.1, BMI is now calculated for persons less than 18.  
This BMI classification is created using "measured height" and "measured weight" variables.

#### Specifications

Value	Condition(s)	Description	Notes
999.96	(GEO_PRV = 60, 61, 62) or MAM_037 = 1	Population exclusions	NA
999.99	MHWZDHTM = NS or MHWZDWTK = NS	Respondents for whom a valid measured height and weight was not obtained	NS
999.99	DHH_SEX = 2 and (MAM_037 = DK, RF or NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)	NS
MHWZDWTK / (MHWZDHTM x MHWZDHTM) (Rounded to two decimal places)	MHWZDHTM < NA and MHWZDWTK < NA	BMI calculated from both measured height and measured weight values	

### 2 ) BMI Classification for Children Aged 12 to 17 (Measured) - Cole Classification System

**Variable name:** MHWZDCOL

**Based on:** MHWZDBMI, DHH\_SEX, DHHYOB, DHHMOB, DHHDOB, ADM\_YOI, ADM\_MOI, ADM\_DOI

**Description:** This variable classifies children aged 12 to 17 as "obese" or "overweight" according to the age-and-sex-specific BMI cut-off points as defined by Cole et al. The Cole cut-off points are based on pooled international data (Brazil, Great Britain, Hong Kong, Netherlands, Singapore, and United States) for BMI and linked to the internationally accepted adult BMI cut-off points of 25 (overweight) and 30 kg/m<sup>2</sup> (obese).

**Introduced in:** CCHS - Cycle 3.1

**Note:** Respondents who do not fall within the categories of "Obese" or "Overweight" (as defined by Cole et al.) have been classified by CCHS as "neither obese nor overweight".  
This variable excludes female respondents aged 15 to 17 who were pregnant or did not answer the pregnancy question (i.e. MAM\_037 = don't know, refusal, not stated).  
This variable excludes respondents who are 216 months in age, i.e. 18 years old or older.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>AGET1</b>			
DHH_AGM / 12	DHH_AGM < 9996	Convert respondent's "age in months" to "age in years"	(Rounded to nearest 0.5)
<b>DHH_AGM</b>			
9999	(DHH_DOB = DK, R, NS) or (DHH_MOB = DK, R, NS) or (DHH_YOB = DK, R, NS)	A valid day of birth or month of birth or year of birth is not available for the respondent.	NS
Age in months	Interview date converted in months (ADM_YOI, ADM_MOI and ADM_DOI) - Date of birth converted in months (DHH_YOB, DHH_MOB and DHH_DOB)	Create respondent's age in months at time of the interview	(min:144; max:1224)

Specifications			
Value	Condition(s)	Description	Notes
6	(GEO_PRV = 60, 61, 62) or MAM_037 = 1 or (DHH_AGM >= 216 and DHH_AGM < NS)	Population exclusions	NA
9	MHWZDBMI = NS or MAM_037 = DK, R, NS or DHH_AGM = NS	At least one required question was not answered (don't know, refusal, not stated)	NS

3	<p>(AGET1 = 12 and DHH_SEX = 1 and MHWZDBMI &gt;= 26.02) or (AGET1 = 12 and DHH_SEX = 2 and MHWZDBMI &gt;= 26.67) or (AGET1 = 12.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 26.43) or (AGET1 = 12.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 27.24) or (AGET1 = 13 and DHH_SEX = 1 and MHWZDBMI &gt;= 26.84) or (AGET1 = 13 and DHH_SEX = 2 and MHWZDBMI &gt;= 27.76) or (AGET1 = 13.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 27.25) or (AGET1 = 13.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 28.20) or (AGET1 = 14 and DHH_SEX = 1 and MHWZDBMI &gt;= 27.63) or (AGET1 = 14 and DHH_SEX = 2 and MHWZDBMI &gt;= 28.57) or (AGET1 = 14.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 27.98) or (AGET1 = 14.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 28.87) or (AGET1 = 15 and DHH_SEX = 1 and MHWZDBMI &gt;= 28.30) or (AGET1 = 15 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.11) or (AGET1 = 15.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 28.60) or (AGET1 = 15.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.29) or (AGET1 = 16 and DHH_SEX = 1 and MHWZDBMI &gt;= 28.88) or (AGET1 = 16 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.43) or (AGET1 = 16.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 29.14) or (AGET1 = 16.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.56) or (AGET1 = 17 and DHH_SEX = 1 and MHWZDBMI &gt;= 29.41) or (AGET1 = 17 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.69) or (AGET1 = 17.5 and DHH_SEX = 1 and MHWZDBMI &gt;= 29.70) or (AGET1 = 17.5 and DHH_SEX = 2 and MHWZDBMI &gt;= 29.84) or (AGET1 = 18 and</p>	Obese
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DHH\_SEX = 1 and  
MHWZDBMI >= 30.00) or  
(AGET1 = 18 and  
DHH\_SEX = 2 and  
MHWZDBMI >= 30.00)

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2	<p>(AGET1 = 12 and DHH_SEX = 1 and (21.22 &lt;= MHWZDBMI &lt; 26.02)) or (AGET1 = 12 and DHH_SEX = 2 and (21.68 &lt;= MHWZDBMI &lt; 26.67)) or (AGET1 = 12.5 and DHH_SEX = 1 and (21.56 &lt;= MHWZDBMI &lt; 26.43)) or (AGET1 = 12.5 and DHH_SEX = 2 and (22.14 &lt;= MHWZDBMI &lt; 27.24)) or (AGET1 = 13 and DHH_SEX = 1 and (21.91 &lt;= MHWZDBMI &lt; 26.84)) or (AGET1 = 13 and DHH_SEX = 2 and (22.58 &lt;= MHWZDBMI &lt; 27.76)) or (AGET1 = 13.5 and DHH_SEX = 1 and (22.27 &lt;= MHWZDBMI &lt; 27.25)) or (AGET1 = 13.5 and DHH_SEX = 2 and (22.98 &lt;= MHWZDBMI &lt; 28.20)) or (AGET1 = 14 and DHH_SEX = 1 and (22.62 &lt;= MHWZDBMI &lt; 27.63)) or (AGET1 = 14 and DHH_SEX = 2 and (23.34 &lt;= MHWZDBMI &lt; 28.57)) or (AGET1 = 14.5 and DHH_SEX = 1 and (22.96 &lt;= MHWZDBMI &lt; 27.98)) or (AGET1 = 14.5 and DHH_SEX = 2 and (23.66 &lt;= MHWZDBMI &lt; 28.87)) or (AGET1 = 15 and DHH_SEX = 1 and (23.29 &lt;= MHWZDBMI &lt; 28.30)) or (AGET1 = 15 and DHH_SEX = 2 and (23.94 &lt;= MHWZDBMI &lt; 29.11)) or (AGET1 = 15.5 and DHH_SEX = 1 and (23.60 &lt;= MHWZDBMI &lt; 28.60)) or (AGET1 = 15.5 and DHH_SEX = 2 and (24.17 &lt;= MHWZDBMI &lt; 29.29)) or (AGET1 = 16 and DHH_SEX = 1 and (23.90 &lt;= MHWZDBMI &lt; 28.88)) or (AGET1 = 16 and DHH_SEX = 2 and (24.37 &lt;= MHWZDBMI &lt; 29.43)) or (AGET1 = 16.5 and DHH_SEX = 1 and (24.19 &lt;= MHWZDBMI &lt; 29.14)) or (AGET1 = 16.5 and DHH_SEX = 2 and (24.54 &lt;= MHWZDBMI &lt; 29.56)) or (AGET1 = 17 and DHH_SEX = 1 and (24.46 &lt;= MHWZDBMI &lt; 29.41)) or (AGET1 = 17 and DHH_SEX = 2 and (24.70 &lt;= MHWZDBMI &lt; 29.69)) or (AGET1 = 17.5 and DHH_SEX = 1 and (24.73 &lt;= MHWZDBMI &lt; 29.70)) or (AGET1 = 17.5 and DHH_SEX = 2 and (24.85 &lt;= MHWZDBMI &lt; 29.84)) or (AGET1 = 18 and</p>	Overweight
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DHH\_SEX = 1 and  
(25.00 <= MHWZDBMI < 30.00)) or  
(AGET1 = 18 and  
DHH\_SEX = 2 and  
(25.00 <= MHWZDBMI < 30.00))

1	Else	Neither overweight nor obese
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Reference: For more information about the Cole BMI classification system, see Establishing a Standard Definition for Child Overweight and Obesity Worldwide - International survey, by Tim J. Cole, Mary C. Bellizzi, Katherine M. Flegal, William H. Dietz, published in British Medical Journal, Volume: 320, May 2000.

### 3 ) Height (Metres) - Measured

**Variable name:** MHWZDHTM

**Based on:** MHWZ\_N6

**Description:** This variable indicates the respondent's height in metres as measured by an interviewer.

**Introduced in:** CCHS - Cycle 3.1

**Note:** For 2008, height and weight measured by interviewers were collected as part of a sub-sample of respondents aged 12 and over, proportionally distributed over the 10 provinces according to their population size. Measured height and weight was not collected in the territories.

Specifications			
Value	Condition(s)	Description	Notes
9.996	GEO_PRV = 60, 61, 62	Population exclusion	NA
9.996	MHWZ_N6 = 999.96	Respondents who did not provide a valid measure	
9.999	MHWZ_N5 = 1 or MHWZ_6 = 2	Respondents who did not give their permission to be measured or for whom some other reason (eg. respondent bedridden, interview setting, etc.) made measurement impossible.	NS
9.999	(MHWZ_N6 = DK, R, NS)	Required question was not answered.	NS
MHWZ_N6 / 100	0 < MHWZ_N6 < NA	Height in metres	

### 4 ) BMI Classification for Adults Aged 18 and Over (Measured) - International Standard

**Variable name:** MHWZDISW

**Based on:** MHWZDBMI, DHH\_AGE

**Description:** This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their Body Mass Index (BMI): underweight; acceptable weight; overweight; obese class I; obese class II; and, obese class III. Here, the BMI categories are adopted from a body weight classification system recommended by Health Canada and the World Health Organization (WHO) which has been widely used internationally.

**Introduced in:** CCHS - Cycle 3.1

**Note:** According to Health Canada, this BMI classification system can be used as a screening tool to identify weight-related health risks at the population and individual levels. The following health risks are associated with each of the BMI categories for adults aged 18 and over:

normal weight = least health risk;  
 underweight and overweight = increased health risk;  
 obese class I = high health risk;  
 obese class II = very high health risk;  
 obese class III = extremely high health risk

At the population level, the BMI classification system can be used to compare body weight patterns and related health risks within and between populations and to establish population trends in body weight patterns. The classification should be used with caution at the individual level because the health risk associated with each BMI category varies considerably between individuals. Particular caution should be used when classifying: adults who are naturally very lean, very muscular adults, some ethnic and racial groups, and seniors.

This variable excludes female respondents aged 18 to 49 who were pregnant or did not answer the pregnancy question (i.e. MAM\_037 = don't know, refusal, not stated).

**Internet site:** [http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight\\_book\\_e.pdf](http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight_book_e.pdf)

Specifications			
Value	Condition(s)	Description	Notes
96	(GEO_PRV = 60, 61, 62) or MAM_037 = 1 or DHH_AGE < 18	Populations excluded	NA
99	MHWZDBMI = NS or MAM_037 = DK, R or NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	MHWZDBMI < 18.50	Underweight	
2	18.50 <= MHWZDBMI <= 24.99	Normal weight	
3	25.00 <= MHWZDBMI <= 29.99	Overweight	
4	30.00 <= MHWZDBMI <= 34.99	Obese - Class I	
5	35.00 <= MHWZDBMI <= 39.99	Obese - Class II	
6	MHWZDBMI >= 40.00	Obese - Class III	

Reference: For more detailed information see Canadian Guidelines for Body Weight Classification in Adults, Health Canada, 2003.

## 5) Weight (Kilograms) - Measured

**Variable name:** MHWZDWTK

**Based on:** MHWZ\_N2

**Description:** This variable indicates the respondent's weight in kilograms as measured by an interviewer.

**Introduced in:** CCHS - Cycle 3.1

**Note:** For 2008, height and weight measured by interviewers were collected as part of a sub-sample of respondents aged 12 and over, proportionally distributed over the 10 provinces according to their population size. Measured height and weight was not collected in the territories.

Specifications			
Value	Condition(s)	Description	Notes
999.96	GEO_PRV = 60, 61, 62	Population exclusion	NA
999.99	MHWZ_N1 = 1 or (MHWZ_N4 = 1, 2) or MHWZ_2 = 2	Respondents who did not give their permission to be measured or for whom some other reason (eg. respondent bedridden, interview setting, etc.) made measurement impossible.	NS
999.99	(MHWZ_N2 = DK, R, NS)	Required question was not answered.	NS

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MHWZ_N2	0 < MHWZ_N2 < NA	Weight in kilograms
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## Maternal experiences - Smoking during pregnancy (4 DVs)

### 1 ) No. of cigarettes daily - last pregnancy (daily smoker)

**Variable name:** MXSG02

**Based on:** MXS\_02

**Description:** This variable groups the number of cigarettes the respondent smoked during her last pregnancy.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	MXS_02 = 96	Not applicable	
99	MXS_02 = 97, 98, 99	Not stated	
1	MXS_02 = 1	Respondent smoked one cigarette daily during her last pregnancy.	
2	MXS_02 = 2	Respondent smoked 2 cigarettes daily during her last pregnancy.	
3	MXS_02 = 3	Respondent smoked 3 cigarettes daily during her last pregnancy.	
4	MXS_02 = 4	Respondent smoked 4 cigarettes daily during her last pregnancy.	
5	MXS_02 = 5	Respondent smoked 5 cigarettes daily during her last pregnancy.	
6	6=<MXS_02 =<10	Respondent smoked 6 to 10 cigarettes daily during her last pregnancy.	
7	11=<MXS_02 =<15	Respondent smoked 11 to 15 cigarettes daily during her last pregnancy.	
8	16=<MXS_02	Respondent smoked 16 or more cigarettes daily during her last pregnancy.	

### 2 ) No. of cigarettes daily - last pregnancy (occasional smoker)

**Variable name:** MXSG03

**Based on:** MXS\_03

**Description:** This variable groups the number of cigarettes the respondent smoked during her last pregnancy.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
96	MXS_03 = 96	Not applicable	
99	MXS_03 = 97, 98, 99	Not stated	

1	MXS_03 = 1	Respondent smoked one cigarette daily during her last pregnancy.
2	MXS_03 = 2	Respondent smoked 2 cigarettes daily during her last pregnancy.
3	MXS_03 = 3	Respondent smoked 3 cigarettes daily during her last pregnancy.
4	MXS_03 = 4	Respondent smoked 4 cigarettes daily during her last pregnancy.
5	MXS_03 = 5	Respondent smoked 5 cigarettes daily during her last pregnancy.
6	6=<MXS_03	Respondent smoked at least 6 cigarettes daily during her last pregnancy.

### 3) No. of cigarettes daily - while breastfeeding (daily smoker)

**Variable name:** MXSG05

**Based on:** MXS\_05

**Description:** This variable groups the number of cigarettes the respondent smoked while while breastfeeding her last baby.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	MXS_05 = 96	Not applicable	
99	MXS_05 = 97, 98, 99	Not stated	
1	MXS_05 = 1	Respondent smoked one cigarette daily while breastfeeding her last baby.	
2	MXS_05 = 2	Respondent smoked 2 cigarettes daily while breastfeeding her last baby.	
3	MXS_05 = 3	Respondent smoked 3 cigarettes daily while breastfeeding her last baby.	
4	MXS_05 = 4	Respondent smoked 4 cigarettes daily while breastfeeding her last baby.	
5	MXS_05 = 5	Respondent smoked 5 cigarettes daily while breastfeeding her last baby.	
6	6=<MXS_05=<10	Respondent smoked 6 to 10 cigarettes daily while breastfeeding her last baby.	
7	11=<MXS_05=<15	Respondent smoked 11 to 15 cigarettes daily while breastfeeding her last baby.	
8	16=<MXS_05	Respondent smoked at least 16 cigarettes daily while breastfeeding her last baby.	

### 4) No. of cigarettes daily - while breastfeeding (occasional smoker)

**Variable name:** MXSG06

**Based on:** MXS\_06

**Description:** This variable groups the number of cigarettes the respondent smoked while breastfeeding her last baby.

**Introduced in:** CCHS - Cycle 1.1

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
96	MXS_06 = 96	Not applicable	
99	MXS_06 = 97, 98, 99	Not stated	
1	MXS_06 = 1	Respondent smoked one cigarette daily while breastfeeding her last baby.	
2	MXS_06 = 2	Respondent smoked 2 cigarettes daily while breastfeeding her last baby.	
3	MXS_06 = 3	Respondent smoked 3 cigarettes daily while breastfeeding her last baby.	
4	MXS_06 = 4	Respondent smoked 4 cigarettes daily while breastfeeding her last baby.	
5	MXS_06 = 5	Respondent smoked 5 cigarettes daily while breastfeeding her last baby.	
6	6=<MXS_06	Respondent smoked at least 6 cigarettes daily while breastfeeding her last baby.	

## Smoking - Nicotine dependence (1 DV)

The items and scoring used to derive the Fagerström Tolerance Test are based on the work of Fagerström, Heatherton and Kozlowski. The test allows physicians to classify smokers according to a level of nicotine dependency and to identify those most likely to need nicotine replacement therapy. The measure combines an index of cigarette consumption and difficulty tolerating reduced nicotine levels.

Temporary Reformat			
Value	Condition(s)	Description	Notes
FTTDIND			
0		Initialize FTTDIND to 0	
FTTDIND + 3	NDE_1 = 1		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 2	NDE_1 = 2		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	NDE_1 = 3		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	NDE_2 = 1		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	NDE_3 = 1		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	NDE_4 = 1		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	NDE_5 = 1		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 1	(11 <= SMK_204 <= 20)		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 2	(21 <= SMK_204 <= 30)		Compute value of FTTDIND for Fagerström Tolerance Test
FTTDIND + 3	(31 <= SMK_204 <= 99)		Compute value of FTTDIND for Fagerström Tolerance Test

### 1) Fagerström Tolerance Score

**Variable name:** NDEDFTT

**Based on:** SMK\_202, SMK\_204, NDE\_1, NDE\_2, NDE\_3, NDE\_4, NDE\_5

**Description:** This variable classifies current daily smokers into categories, according to level of nicotine dependency. The measure combines an index of consumption (cigarettes per day) with difficulty tolerating reduced nicotine levels.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Occasional smokers and non-smokers are excluded from the population.

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
6	NDEFOPT = 2	Module not selected	NA
6	(SMK_202 = 2, 3)	Population exclusion	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(SMK_202 = DK, R, NS) or (SMK_204 = DK, R, NS) or (NDE_1 = DK, R, NS) or (NDE_2 = DK, R, NS) or (NDE_3 = DK, R, NS) or (NDE_4 = DK, R, NS) or (NDE_5 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(0 <= FTTDIND <= 2)	Very low dependence	
2	(3 <= FTTDIND <= 4)	Low dependence	
3	FTTDIND = 5	Medium dependence	
4	(6 <= FTTDIND <= 7)	High dependence	
5	(8 <= FTTDIND <= 10)	Very high dependence	

Reference: Adapted from Fagerström, KO, Heatherton TF, Kozlowski LT. Nicotine addiction and its assessment. *Ear Nose Throat J.* 1991; 69: 763-765.

Heatherton TF, Kozlowski LT, Frecker RC, Fagerström, KO. A Fagerström Test for Nicotine Dependence: A revision of the Fagerström Tolerance Questionnaire. *British Journal of Addictions.* 1991; 86: 1119-27.



## Oral health 1 (1 DV)

### 1 ) Inability to Chew

**Variable name:** OH1FCHW

**Based on:** OH1\_21A, OH1\_21B

**Description:** This variable is an indicator of the respondent's oral physical functioning (the ability to chew) and the extent to which this is compromised by oral disorders and conditions.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	OH1_21A = 1 and OH1_21B = 1	No limitation in chewing ability	
1	OH1_21A = 2 or OH1_21B = 2	Limitations in chewing ability	
9	(OH1_21A = DK, R, NS) or (OH1_21B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Oral health 2 (2 DVs)

### 1) Social Limitation Due to Oral Health Status

**Variable name:** OH2FLIM

**Based on:** OH2\_23, OH2\_24

**Description:** This variable indicates whether the respondent's oral health status impacts on social functioning as measured by avoiding conversation or contact with others, or by avoiding laughing or smiling.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	OH2FOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	(OH2_23 = 3, 4) and (OH2_24 = 3, 4)	No social limitation due to oral condition	
1	(OH2_23 = 1, 2) or (OH2_24 = 1, 2)	Social limitation experienced due to oral condition	
9	(OH2_23 = DK, R, NS) or (OH2_24 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2) Oral and Facial Pain and Discomfort

**Variable name:** OH2FOFP

**Based on:** OH2\_25A, OH2\_25B, OH2\_25C, OH2\_25D, OH2\_25E, OH2\_25F, OH2\_25G

**Description:** This variable indicates the presence of oral and facial pain in the past month.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	OH2FOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	OH2_25A = 2 and OH2_25B = 2 and OH2_25C = 2 and OH2_25D = 2 and OH2_25E = 2 and OH2_25F = 2 and OH2_25G = 2	Has not experienced any oral or facial pain or discomfort in the past month	

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1	OH2_25A = 1 or OH2_25B = 1 or OH2_25C = 1 or OH2_25D = 1 or OH2_25E = 1 or OH2_25F = 1 or OH2_25G = 1	Has experienced some oral or facial pain or discomfort in the past month	
9	(OH2_25A = DK, R, NS) or (OH2_25B = DK, R, NS) or (OH2_25C = DK, R, NS) or (OH2_25D = DK, R, NS) or (OH2_25E = DK, R, NS) or (OH2_25F = DK, R, NS) or (OH2_25G = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

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## Physical activities (9 DVs)

### 1 ) Daily Energy Expenditure in Leisure Time Physical Activities

**Variable name:** PACDEE

**Based on:** PAC\_1V, PAC\_2A, PAC\_2B, PAC\_2C, PAC\_2D, PAC\_2E, PAC\_2F, PAC\_2G, PAC\_2H, PAC\_2I, PAC\_2J, PAC\_2K, PAC\_2L, PAC\_2M, PAC\_2N, PAC\_2O, PAC\_2P, PAC\_2Q, PAC\_2R, PAC\_2S, PAC\_2T, PAC\_2U, PAC\_2W, PAC\_2X, PAC\_2Z, PAC\_3A, PAC\_3B, PAC\_3C, PAC\_3D, PAC\_3E, PAC\_3F, PAC\_3G, PAC\_3H, PAC\_3I, PAC\_3J, PAC\_3K, PAC\_3L, PAC\_3M, PAC\_3N, PAC\_3O, PAC\_3P, PAC\_3Q, PAC\_3R, PAC\_3S, PAC\_3T, PAC\_3U, PAC\_3W, PAC\_3X, PAC\_3Z

**Description:** This variable is a measure of the average daily energy expended during leisure time activities by the respondent in the past three months.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Energy Expenditure (EE) is calculated using the frequency and duration per session of the physical activity as well as the MET value of the activity. The MET is a value of metabolic energy cost expressed as a multiple of the resting metabolic rate. For example, an activity of 4 METS requires four times the amount of energy as compared to when the body is at rest.

EE (Energy Expenditure for each activity) = (N X D X METvalue) / 365

Where:

N = the number of times a respondent engaged in an activity over a 12 month period

D = the average duration in hours of the activity

MET value = the energy cost of the activity expressed as kilocalories expended per kilogram of body weight per hour of activity (kcal/kg per hour)/365 (to convert yearly data into daily data)

MET values tend to be expressed in three intensity levels (i.e. low, medium, high). The CCHS questions did not ask the respondent to specify the intensity level of their activities. Therefore the MET values adopted correspond to the low intensity value of each activity. This approach is adopted from the Canadian Fitness and Lifestyle Research Institute because individuals tend to overestimate the intensity, frequency and duration of their activities.

Variable Name	Activity	MET Value (kcal/kg/hr)
PACDEEA	WALKING FOR EXERCISE	3
PACDEEB	GARDENING OR YARD WORK	3
PACDEEC	SWIMMING	3
PACDEED	BICYCLING	4
PACDEEE	POPULAR OR SOCIAL DANCE	3
PACDEEF	HOME EXERCISES	3
PACDEEG	ICE HOCKEY	6
PACDEEH	ICE SKATING	4
PACDEEI	IN-LINE SKATING OR ROLLERBLADING	5
PACDEEJ	JOGGING OR RUNNING*	9.5
PACDEEK	GOLFING	4
PACDEEL	EXERCISE CLASS OR AEROBICS	4
PACDEEM	DOWNHILL SKIING OR SNOWBOARDING	4
PACDEEN	BOWLING	2
PACDEEO	BASEBALL OR SOFTBALL	3
PACDEEP	TENNIS	4
PACDEEQ	WEIGHT-TRAINING	3
PACDEER	FISHING	3
PACDEES	VOLLEYBALL	5
PACDEET	BASKETBALL	6
PACDEEZ	SOCCER	5
PACDEEU	OTHER (U)*	4
PACDEEW	OTHER (W)*	4
PACDEEX	OTHER (X)*	4

\* Jogging (MET value 7) and running (MET value 12) fall under one category. Therefore, the MET value for the combined activity is the average of their MET values (9.5). Since it is difficult to assign a MET value to the category "Other Activities", the MET value used is the average of the listed activities except for the average value of jogging and running. Here, the average value of jogging and running is replaced by the value for jogging only. Some activities have MET values lower than the average, however, this approach is consistent with other studies, such as the Campbell's Survey and the Ontario Health

Survey (OHS).

\* Times were assigned an average duration value for the calculation, as with NPHS:  
(13 minutes or .2167 hour, 23 minutes or .3833 hour, 45 minutes or .75 hour, 60 minutes or 1 hour)

Beginning in CCHS cycle 2.1, the list of activities (PAC\_1n) changed slightly from previous CCHS cycles: The activity "Soccer" was asked explicitly in Cycle 2.1. For Cycle 1.1, this activity was part of the "Other" activities.

<b>Temporary Reformat</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
<b>PACDEEA</b>			
0	PAC_3A = NA	Did not participate in activity	WALKING FOR EXERCISE
0	(PAC_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	WALKING FOR EXERCISE
$(PAC\_2A \times 4 \times .2167 \times 3) / 365$	PAC_3A = 1	Calculate EE for < 15 min*	WALKING FOR EXERCISE
$(PAC\_2A \times 4 \times .3833 \times 3) / 365$	PAC_3A = 2	Calculate EE for 16 to 30 min*	WALKING FOR EXERCISE
$(PAC\_2A \times 4 \times .75 \times 3) / 365$	PAC_3A = 3	Calculate EE for 31 to 60 min*	WALKING FOR EXERCISE
$(PAC\_2A \times 4 \times 1 \times 3) / 365$	PAC_3A = 4	Calculate EE for > 60 min*	WALKING FOR EXERCISE
<b>PACDEEB</b>			
0	PAC_3B = NA	Did not participate in activity	GARDENING OR YARD WORK
0	(PAC_3B = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	GARDENING OR YARD WORK
$(PAC\_2B \times 4 \times .2167 \times 3) / 365$	PAC_3B = 1	Calculate EE for < 15 min*	GARDENING OR YARD WORK
$(PAC\_2B \times 4 \times .3833 \times 3) / 365$	PAC_3B = 2	Calculate EE for 16 to 30 min*	GARDENING OR YARD WORK
$(PAC\_2B \times 4 \times .75 \times 3) / 365$	PAC_3B = 3	Calculate EE for 31 to 60 min*	GARDENING OR YARD WORK
$(PAC\_2B \times 4 \times 1 \times 3) / 365$	PAC_3B = 4	Calculate EE for > 60 min*	GARDENING OR YARD WORK
<b>PACDEEC</b>			
0	PAC_3C = NA	Did not participate in activity	SWIMMING
0	(PAC_3C = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	SWIMMING
$(PAC\_2C \times 4 \times .2167 \times 3) / 365$	PAC_3C = 1	Calculate EE for < 15 min*	SWIMMING
$(PAC\_2C \times 4 \times .3833 \times 3) / 365$	PAC_3C = 2	Calculate EE for 16 to 30 min*	SWIMMING
$(PAC\_2C \times 4 \times .75 \times 3) / 365$	PAC_3C = 3	Calculate EE for 31 to 60 min*	SWIMMING
$(PAC\_2C \times 4 \times 1 \times 3) / 365$	PAC_3C = 4	Calculate EE for > 60 min*	SWIMMING
<b>PACDEED</b>			
0	PAC_3D = NA	Did not participate in activity	BICYCLING
0	(PAC_3D = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BICYCLING

(PAC_2D × 4 × .2167 × 4) / 365	PAC_3D = 1	Calculate EE for < 15 min*	BICYCLING
(PAC_2D × 4 × .3833 × 4) / 365	PAC_3D = 2	Calculate EE for 16 to 30 min*	BICYCLING
(PAC_2D × 4 × .75 × 4) / 365	PAC_3D = 3	Calculate EE for 31 to 60 min*	BICYCLING
(PAC_2D × 4 × 1 × 4) / 365	PAC_3D = 4	Calculate EE for > 60 min*	BICYCLING
<b>PACDEEE</b>			
0	PAC_3E = NA	Did not participate in activity	POPULAR OR SOCIAL DANCE
0	(PAC_3E = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	POPULAR OR SOCIAL DANCE
(PAC_2E × 4 × .2167 × 3) / 365	PAC_3E = 1	Calculate EE for < 15 min*	POPULAR OR SOCIAL DANCE
(PAC_2E × 4 × .3833 × 3) / 365	PAC_3E = 2	Calculate EE for 16 to 30 min*	POPULAR OR SOCIAL DANCE
(PAC_2E × 4 × .75 × 3) / 365	PAC_3E = 3	Calculate EE for 31 to 60 min*	POPULAR OR SOCIAL DANCE
(PAC_2E × 4 × 1 × 3) / 365	PAC_3E = 4	Calculate EE for > 60 min*	POPULAR OR SOCIAL DANCE
<b>PACDEEF</b>			
0	PAC_3F = NA	Did not participate in activity	HOME EXERCISES
0	(PAC_3F = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	HOME EXERCISES
(PAC_2F × 4 × .2167 × 3) / 365	PAC_3F = 1	Calculate EE for < 15 min*	HOME EXERCISES
(PAC_2F × 4 × .3833 × 3) / 365	PAC_3F = 2	Calculate EE for 16 to 30 min*	HOME EXERCISES
(PAC_2F × 4 × .75 × 3) / 365	PAC_3F = 3	Calculate EE for 31 to 60 min*	HOME EXERCISES
(PAC_2F × 4 × 1 × 3) / 365	PAC_3F = 4	Calculate EE for > 60 min*	HOME EXERCISES
<b>PACDEEG</b>			
0	PAC_3G = NA	Did not participate in activity	ICE HOCKEY
0	(PAC_3G = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	ICE HOCKEY
(PAC_2G × 4 × .2167 × 6) / 365	PAC_3G = 1	Calculate EE for < 15 min*	ICE HOCKEY
(PAC_2G × 4 × .3833 × 6) / 365	PAC_3G = 2	Calculate EE for 16 to 30 min*	ICE HOCKEY
(PAC_2G × 4 × .75 × 6) / 365	PAC_3G = 3	Calculate EE for 31 to 60 min*	ICE HOCKEY
(PAC_2G × 4 × 1 × 6) / 365	PAC_3G = 4	Calculate EE for > 60 min*	ICE HOCKEY
<b>PACDEEH</b>			
0	PAC_3H = NA	Did not participate in activity	ICE SKATING
0	(PAC_3H = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	ICE SKATING

$(PAC\_2H \times 4 \times .2167 \times 4) / 365$	PAC_3H = 1	Calculate EE for < 15 min*	ICE SKATING
$(PAC\_2H \times 4 \times .3833 \times 4) / 365$	PAC_3H = 2	Calculate EE for 16 to 30 min*	ICE SKATING
$(PAC\_2H \times 4 \times .75 \times 4) / 365$	PAC_3H = 3	Calculate EE for 31 to 60 min*	ICE SKATING
$(PAC\_2H \times 4 \times 1 \times 4) / 365$	PAC_3H = 4	Calculate EE for > 60 min*	ICE SKATING
<b>PACDEEI</b>			
0	PAC_3I = NA	Did not participate in activity	IN-LINE SKATING OR ROLLERBLADING
0	(PAC_3I = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	IN-LINE SKATING OR ROLLERBLADING
$(PAC\_2I \times 4 \times .2167 \times 5) / 365$	PAC_3I = 1	Calculate EE for < 15 min*	IN-LINE SKATING OR ROLLERBLADING
$(PAC\_2I \times 4 \times .3833 \times 5) / 365$	PAC_3I = 2	Calculate EE for 16 to 30 min*	IN-LINE SKATING OR ROLLERBLADING
$(PAC\_2I \times 4 \times .75 \times 5) / 365$	PAC_3I = 3	Calculate EE for 31 to 60 min*	IN-LINE SKATING OR ROLLERBLADING
$(PAC\_2I \times 4 \times 1 \times 5) / 365$	PAC_3I = 4	Calculate EE for > 60 min*	IN-LINE SKATING OR ROLLERBLADING
<b>PACDEEJ</b>			
0	PAC_3J = NA	Did not participate in activity	JOGGING OR RUNNING
0	(PAC_3J = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	JOGGING OR RUNNING
$(PAC\_2J \times 4 \times .2167 \times 9.5) / 365$	PAC_3J = 1	Calculate EE for < 15 min*	JOGGING OR RUNNING
$(PAC\_2J \times 4 \times .3833 \times 9.5) / 365$	PAC_3J = 2	Calculate EE for 16 to 30 min*	JOGGING OR RUNNING
$(PAC\_2J \times 4 \times .75 \times 9.5) / 365$	PAC_3J = 3	Calculate EE for 31 to 60 min*	JOGGING OR RUNNING
$(PAC\_2J \times 4 \times 1 \times 9.5) / 365$	PAC_3J = 4	Calculate EE for > 60 min*	JOGGING OR RUNNING
<b>PACDEEK</b>			
0	PAC_3K = NA	Did not participate in activity	GOLFING
0	(PAC_3K = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	GOLFING
$(PAC\_2K \times 4 \times .2167 \times 4) / 365$	PAC_3K = 1	Calculate EE for < 15 min*	GOLFING
$(PAC\_2K \times 4 \times .3833 \times 4) / 365$	PAC_3K = 2	Calculate EE for 16 to 30 min*	GOLFING
$(PAC\_2K \times 4 \times .75 \times 4) / 365$	PAC_3K = 3	Calculate EE for 31 to 60 min*	GOLFING
$(PAC\_2K \times 4 \times 1 \times 4) / 365$	PAC_3K = 4	Calculate EE for > 60 min*	GOLFING
<b>PACDEEL</b>			

0	PAC_3L = NA	Did not participate in activity	EXERCISE CLASS OR AEROBICS
0	(PAC_3L = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	EXERCISE CLASS OR AEROBICS
$(\text{PAC\_2L} \times 4 \times .2167 \times 4) / 365$	PAC_3L = 1	Calculate EE for < 15 min*	EXERCISE CLASS OR AEROBICS
$(\text{PAC\_2L} \times 4 \times .3833 \times 4) / 365$	PAC_3L = 2	Calculate EE for 16 to 30 min*	EXERCISE CLASS OR AEROBICS
$(\text{PAC\_2L} \times 4 \times .75 \times 4) / 365$	PAC_3L = 3	Calculate EE for 31 to 60 min*	EXERCISE CLASS OR AEROBICS
$(\text{PAC\_2L} \times 4 \times 1 \times 4) / 365$	PAC_3L = 4	Calculate EE for > 60 min*	EXERCISE CLASS OR AEROBICS
<b>PACDEEM</b>			
0	PAC_3M = NA	Did not participate in activity	DOWNHILL SKIING OR SNOWBOARDING
0	(PAC_3M = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC\_2M} \times 4 \times .2167 \times 4) / 365$	PAC_3M = 1	Calculate EE for < 15 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC\_2M} \times 4 \times .3833 \times 4) / 365$	PAC_3M = 2	Calculate EE for 16 to 30 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC\_2M} \times 4 \times .75 \times 4) / 365$	PAC_3M = 3	Calculate EE for 31 to 60 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC\_2M} \times 4 \times 1 \times 4) / 365$	PAC_3M = 4	Calculate EE for > 60 min*	DOWNHILL SKIING OR SNOWBOARDING
<b>PACDEEN</b>			
0	PAC_3N = NA	Did not participate in activity	BOWLING
0	(PAC_3N = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BOWLING
$(\text{PAC\_2N} \times 4 \times .2167 \times 2) / 365$	PAC_3N = 1	Calculate EE for < 15 min*	BOWLING
$(\text{PAC\_2N} \times 4 \times .3833 \times 2) / 365$	PAC_3N = 2	Calculate EE for 16 to 30 min*	BOWLING
$(\text{PAC\_2N} \times 4 \times .75 \times 2) / 365$	PAC_3N = 3	Calculate EE for 31 to 60 min*	BOWLING
$(\text{PAC\_2N} \times 4 \times 1 \times 2) / 365$	PAC_3N = 4	Calculate EE for > 60 min*	BOWLING
<b>PACDEEO</b>			
0	PAC_3O = NA	Did not participate in activity	BASEBALL OR SOFTBALL
0	(PAC_3O = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BASEBALL OR SOFTBALL
$(\text{PAC\_2O} \times 4 \times .2167 \times 3) / 365$	PAC_3O = 1	Calculate EE for < 15 min*	BASEBALL OR SOFTBALL
$(\text{PAC\_2O} \times 4 \times .3833 \times 3) / 365$	PAC_3O = 2	Calculate EE for 16 to 30 min*	BASEBALL OR SOFTBALL



$(\text{PAC\_2O} \times 4 \times .75 \times 3) / 365$	PAC_3O = 3	Calculate EE for 31 to 60 min*	BASEBALL OR SOFTBALL
$(\text{PAC\_2O} \times 4 \times 1 \times 3) / 365$	PAC_3O = 4	Calculate EE for > 60 min*	BASEBALL OR SOFTBALL
<b>PACDEEP</b>			
0	PAC_3P = NA	Did not participate in activity	TENNIS
0	(PAC_3P = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	TENNIS
$(\text{PAC\_2P} \times 4 \times .2167 \times 4) / 365$	PAC_3P = 1	Calculate EE for < 15 min*	TENNIS
$(\text{PAC\_2P} \times 4 \times .3833 \times 4) / 365$	PAC_3P = 2	Calculate EE for 16 to 30 min*	TENNIS
$(\text{PAC\_2P} \times 4 \times .75 \times 4) / 365$	PAC_3P = 3	Calculate EE for 31 to 60 min*	TENNIS
$(\text{PAC\_2P} \times 4 \times 1 \times 4) / 365$	PAC_3P = 4	Calculate EE for > 60 min*	TENNIS
<b>PACDEEQ</b>			
0	PAC_3Q = NA	Did not participate in activity	WEIGHT-TRAINING
0	(PAC_3Q = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	WEIGHT-TRAINING
$(\text{PAC\_2Q} \times 4 \times .2167 \times 3) / 365$	PAC_3Q = 1	Calculate EE for < 15 min*	WEIGHT-TRAINING
$(\text{PAC\_2Q} \times 4 \times .3833 \times 3) / 365$	PAC_3Q = 2	Calculate EE for 16 to 30 min*	WEIGHT-TRAINING
$(\text{PAC\_2Q} \times 4 \times .75 \times 3) / 365$	PAC_3Q = 3	Calculate EE for 31 to 60 min*	WEIGHT-TRAINING
$(\text{PAC\_2Q} \times 4 \times 1 \times 3) / 365$	PAC_3Q = 4	Calculate EE for > 60 min*	WEIGHT-TRAINING
<b>PACDEER</b>			
0	PAC_3R = NA	Did not participate in activity	FISHING
0	(PAC_3R = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	FISHING
$(\text{PAC\_2R} \times 4 \times .2167 \times 3) / 365$	PAC_3R = 1	Calculate EE for < 15 min*	FISHING
$(\text{PAC\_2R} \times 4 \times .3833 \times 3) / 365$	PAC_3R = 2	Calculate EE for 16 to 30 min*	FISHING
$(\text{PAC\_2R} \times 4 \times .75 \times 3) / 365$	PAC_3R = 3	Calculate EE for 31 to 60 min*	FISHING
$(\text{PAC\_2R} \times 4 \times 1 \times 3) / 365$	PAC_3R = 4	Calculate EE for > 60 min*	FISHING
<b>PACDEES</b>			
0	PAC_3S = NA	Did not participate in activity	VOLLEYBALL
0	(PAC_3S = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	VOLLEYBALL
$(\text{PAC\_2S} \times 4 \times .2167 \times 5) / 365$	PAC_3S = 1	Calculate EE for < 15 min*	VOLLEYBALL
$(\text{PAC\_2S} \times 4 \times .3833 \times 5) / 365$	PAC_3S = 2	Calculate EE for 16 to 30 min*	VOLLEYBALL
$(\text{PAC\_2S} \times 4 \times .75 \times 5) / 365$	PAC_3S = 3	Calculate EE for 31 to 60 min*	VOLLEYBALL

$(\text{PAC\_2T} \times 4 \times 1 \times 6) / 365$	PAC_3S = 4	Calculate EE for > 60 min*	VOLLEYBALL
<b>PACDEET</b>			
0	PAC_3T = NA	Did not participate in activity	BASKETBALL
0	(PAC_3T = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BASKETBALL
$(\text{PAC\_2T} \times 4 \times .2167 \times 6) / 365$	PAC_3T = 1	Calculate EE for < 15 min*	BASKETBALL
$(\text{PAC\_2T} \times 4 \times .3833 \times 6) / 365$	PAC_3T = 2	Calculate EE for 16 to 30 min*	BASKETBALL
$(\text{PAC\_2T} \times 4 \times .75 \times 6) / 365$	PAC_3T = 3	Calculate EE for 31 to 60 min*	BASKETBALL
$(\text{PAC\_2T} \times 4 \times 1 \times 6) / 365$	PAC_3T = 4	Calculate EE for > 60 min*	BASKETBALL
<b>PACDEEU</b>			
0	PAC_3U = NA	Did not participate in activity	OTHER (U)
0	(PAC_3U = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (U)
$(\text{PAC\_2U} \times 4 \times .2167 \times 4) / 365$	PAC_3U = 1	Calculate EE for < 15 min*	OTHER (U)
$(\text{PAC\_2U} \times 4 \times .3833 \times 4) / 365$	PAC_3U = 2	Calculate EE for 16 to 30 min*	OTHER (U)
$(\text{PAC\_2U} \times 4 \times .75 \times 4) / 365$	PAC_3U = 3	Calculate EE for 31 to 60 min*	OTHER (U)
$(\text{PAC\_2U} \times 4 \times 1 \times 4) / 365$	PAC_3U = 4	Calculate EE for > 60 min*	OTHER (U)
<b>PACDEEW</b>			
0	PAC_3W = NA	Did not participate in activity	OTHER (W)
0	(PAC_3W = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (W)
$(\text{PAC\_2W} \times 4 \times .2167 \times 4) / 365$	PAC_3W = 1	Calculate EE for < 15 min*	OTHER (W)
$(\text{PAC\_2W} \times 4 \times .3833 \times 4) / 365$	PAC_3W = 2	Calculate EE for 16 to 30 min*	OTHER (W)
$(\text{PAC\_2W} \times 4 \times .75 \times 4) / 365$	PAC_3W = 3	Calculate EE for 31 to 60 min*	OTHER (W)
$(\text{PAC\_2W} \times 4 \times 1 \times 4) / 365$	PAC_3W = 4	Calculate EE for > 60 min*	OTHER (W)
<b>PACDEEX</b>			
0	PAC_3X = NA	Did not participate in activity	OTHER (X)
0	(PAC_3X = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (X)
$(\text{PAC\_2X} \times 4 \times .2167 \times 4) / 365$	PAC_3X = 1	Calculate EE for < 15 min*	OTHER (X)
$(\text{PAC\_2X} \times 4 \times .3833 \times 4) / 365$	PAC_3X = 2	Calculate EE for 16 to 30 min*	OTHER (X)
$(\text{PAC\_2X} \times 4 \times .75 \times 4) / 365$	PAC_3X = 3	Calculate EE for 31 to 60 min*	OTHER (X)
$(\text{PAC\_2X} \times 4 \times 1 \times 4) / 365$	PAC_3X = 4	Calculate EE for > 60 min*	OTHER (X)

**PACDEEZ**

0	PAC_3Z = NA	Did not participate in activity	SOCCER
0	(PAC_3Z = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	SOCCER
$(PAC\_2Z \times 4 \times .2167 \times 5) / 365$	PAC_3Z = 1	Calculate EE for < 15 min*	SOCCER
$(PAC\_2Z \times 4 \times .3833 \times 5) / 365$	PAC_3Z = 2	Calculate EE for 16 to 30 min*	SOCCER
$(PAC\_2Z \times 4 \times .75 \times 5) / 365$	PAC_3Z = 3	Calculate EE for 31 to 60 min*	SOCCER
$(PAC\_2Z \times 4 \times 1 \times 5) / 365$	PAC_3Z = 4	Calculate EE for > 60 min*	SOCCER

**Specifications**

Value	Condition(s)	Description	Notes
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS
99.9	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	PAC_1V = 1	No leisure time physical activity	
PACDEEA + PACDEEB + PACDEEC + PACDEED + PACDEEE + PACDEEF + PACDEEG + PACDEEH + PACDEEI + PACDEEJ + PACDEEK + PACDEEL + PACDEEM + PACDEEN + PACDEEO + PACDEEP + PACDEEQ + PACDEER + PACDEES + PACDEET + PACDEEZ + PACDEEU + PACDEEW + PACDEEX	(0 <= PACDEEA < NA) and (0 <= PACDEEB < NA) and (0 <= PACDEEC < NA) and (0 <= PACDEED < NA) and (0 <= PACDEEE < NA) and (0 <= PACDEEF < NA) and (0 <= PACDEEG < NA) and (0 <= PACDEEH < NA) and (0 <= PACDEEI < NA) and (0 <= PACDEEJ < NA) and (0 <= PACDEEK < NA) and (0 <= PACDEEL < NA) and (0 <= PACDEEM < NA) and (0 <= PACDEEN < NA) and (0 <= PACDEEO < NA) and (0 <= PACDEEP < NA) and (0 <= PACDEEQ < NA) and (0 <= PACDEER < NA) and (0 <= PACDEES < NA) and (0 <= PACDEET < NA) and (0 <= PACDEEZ < NA) and (0 <= PACDEEU < NA) and (0 <= PACDEEW < NA) and (0 <= PACDEEX < NA)	Total daily energy expenditure (kcal/kg/day)	(rounded to one decimal place)  (min: 0.0; max: 99.5)

**2) Average Monthly Frequency of Leisure Time Physical Activity Lasting Over 15 Minutes****Variable name:** PACDFM**Based on:** PAC\_1V, PAC\_2A, PAC\_2B, PAC\_2C, PAC\_2D, PAC\_2E, PAC\_2F, PAC\_2G, PAC\_2H, PAC\_2I, PAC\_2J, PAC\_2K, PAC\_2L, PAC\_2M, PAC\_2N, PAC\_2O, PAC\_2P, PAC\_2Q, PAC\_2R, PAC\_2S, PAC\_2T, PAC\_2Z, PAC\_2U, PAC\_2W, PAC\_2X, PAC\_3A, PAC\_3B, PAC\_3C, PAC\_3D, PAC\_3E, PAC\_3F, PAC\_3G, PAC\_3H, PAC\_3I, PAC\_3J, PAC\_3K, PAC\_3L, PAC\_3M, PAC\_3N, PAC\_3O, PAC\_3P, PAC\_3Q, PAC\_3R, PAC\_3S, PAC\_3T, PAC\_3Z, PAC\_3U, PAC\_3W, PAC\_3X**Description:** This variable measures the total number of times per month that respondents took part in leisure time physical activity(ies) lasting more than 15 minutes.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The survey questions refer to "the past three months". This variable calculates a one-month average by dividing the total reported frequency by three.

**Source:** Ontario Health Survey

**Internet site:** [www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm](http://www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm)

<b>Temporary Reformat</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
<b>PACT2A</b>			
0	(PAC_3A = 1, NA, DK, R, NS)	Set all values for PAC_2A (number of times/3months respondents took part in physical activity) to 0 if PAC_3A is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2B</b>			
0	(PAC_3B = 1, NA, DK, R, NS)	Set all values for PAC_2B (number of times/3months respondents took part in physical activity) to 0 if PAC_3B is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2C</b>			
0	(PAC_3C = 1, NA, DK, R, NS)	Set all values for PAC_2C (number of times/3months respondents took part in physical activity) to 0 if PAC_3C is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2D</b>			
0	(PAC_3D = 1, NA, DK, R, NS)	Set all values for PAC_2D (number of times/3months respondents took part in physical activity) to 0 if PAC_3D is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2E</b>			
0	(PAC_3E = 1, NA, DK, R, NS)	Set all values for PAC_2E (number of times/3months respondents took part in physical activity) to 0 if PAC_3E is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2F</b>			
0	(PAC_3F = 1, NA, DK, R, NS)	Set all values for PAC_2F (number of times/3months respondents took part in physical activity) to 0 if PAC_3F is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2G</b>			
0	(PAC_3G = 1, NA, DK, R, NS)	Set all values for PAC_2G (number of times/3months respondents took part in physical activity) to 0 if PAC_3G is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
<b>PACT2H</b>			
0	(PAC_3H = 1, NA, DK, R, NS)	Set all values for PAC_2H (number of times/3months respondents took part in physical activity) to 0 if PAC_3H is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	

<b>PACT2I</b>		
0	(PAC_3I = 1, NA, DK, R, NS)	Set all values for PAC_2I (number of times/3months respondents took part in physical activity) to 0 if PAC_3I is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2J</b>		
0	(PAC_3J = 1, NA, DK, R, NS)	Set all values for PAC_2J (number of times/3months respondents took part in physical activity) to 0 if PAC_3J is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2K</b>		
0	(PAC_3K = 1, NA, DK, R, NS)	Set all values for PAC_2K (number of times/3months respondents took part in physical activity) to 0 if PAC_3K is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2L</b>		
0	(PAC_3L = 1, NA, DK, R, NS)	Set all values for PAC_2L (number of times/3months respondents took part in physical activity) to 0 if PAC_3L is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2M</b>		
0	(PAC_3M = 1, NA, DK, R, NS)	Set all values for PAC_2M (number of times/3months respondents took part in physical activity) to 0 if PAC_3M is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2N</b>		
0	(PAC_3N = 1, NA, DK, R, NS)	Set all values for PAC_2N (number of times/3months respondents took part in physical activity) to 0 if PAC_3N is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2O</b>		
0	(PAC_3O = 1, NA, DK, R, NS)	Set all values for PAC_2O (number of times/3months respondents took part in physical activity) to 0 if PAC_3O is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2P</b>		
0	(PAC_3P = 1, NA, DK, R, NS)	Set all values for PAC_2P (number of times/3months respondents took part in physical activity) to 0 if PAC_3P is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2Q</b>		
0	(PAC_3Q = 1, NA, DK, R, NS)	Set all values for PAC_2Q (number of times/3months respondents took part in physical activity) to 0 if PAC_3Q is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2R</b>		
0	(PAC_3R = 1, NA, DK, R, NS)	Set all values for PAC_2R (number of times/3months respondents took part in physical activity) to 0 if PAC_3R is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)

<b>PACT2S</b>		
0	(PAC_3S = 1, NA, DK, R, NS)	Set all values for PAC_2S (number of times/3months respondents took part in physical activity) to 0 if PAC_3S is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2T</b>		
0	(PAC_3T = 1, NA, DK, R, NS)	Set all values for PAC_2T (number of times/3months respondents took part in physical activity) to 0 if PAC_3T is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2U</b>		
0	(PAC_3U = 1, NA, DK, R, NS)	Set all values for PAC_2U (number of times/3months respondents took part in physical activity) to 0 if PAC_3U is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2W</b>		
0	(PAC_3W = 1, NA, DK, R, NS)	Set all values for PAC_2W (number of times/3months respondents took part in physical activity) to 0 if PAC_3W is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2X</b>		
0	(PAC_3X = 1, NA, DK, R, NS)	Set all values for PAC_2X (number of times/3months respondents took part in physical activity) to 0 if PAC_3X is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
<b>PACT2Z</b>		
0	(PAC_3Z = 1, NA, DK, R, NS)	Set all values for PAC_2Z (number of times/3months respondents took part in physical activity) to 0 if PAC_3Z is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
999	ADM_PRX = 1	Module not asked - proxy interview	NS
999	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	PAC_1V=1	No leisure time physical activity	

(PACT2A + PACT2B + PACT2C + PACT2D + PACT2E + PACT2F + PACT2G + PACT2H + PACT2I + PACT2J + PACT2K + PACT2L + PACT2M + PACT2N + PACT2O + PACT2P + PACT2Q + PACT2R + PACT2S + PACT2T + PACT2Z + PACT2U + PACT2W + PACT2X) / 3	(0 <= PACT2A < NA) and (0 <= PACT2B < NA) and (0 <= PACT2C < NA) and (0 <= PACT2D < NA) and (0 <= PACT2E < NA) and (0 <= PACT2F < NA) and (0 <= PACT2G < NA) and (0 <= PACT2H < NA) and (0 <= PACT2I < NA) and (0 <= PACT2J < NA) and (0 <= PACT2K < NA) and (0 <= PACT2L < NA) and (0 <= PACT2M < NA) and (0 <= PACT2N < NA) and (0 <= PACT2O < NA) and (0 <= PACT2P < NA) and (0 <= PACT2Q < NA) and (0 <= PACT2R < NA) and (0 <= PACT2S < NA) and (0 <= PACT2T < NA) and (0 <= PACT2Z < NA) and (0 <= PACT2U < NA) and (0 <= PACT2W < NA) and (0 <= PACT2X < NA)	Monthly frequency of all leisure time physical activity lasting over 15 minutes	(Rounded to nearest integer) (min: 0; max: 995)
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### 3) Frequency of All Leisure Time Physical Activity Lasting Over 15 Minutes

**Variable name:** PACDFR

**Based on:** PACDFM

**Description:** This variable classifies respondents according to their pattern, or regularity of leisure time physical activity lasting more than 15 minutes.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable uses values for the derived variable Monthly Frequency of Physical Activity (PACDFM). The values for PACDFM reflect a one-month average based on data reported for a three-month period.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDFM = NS	Required question was not answered (don't know, refusal, not stated)	NS
1	(12 <= PACDFM < NA)	Regular practice of leisure time activities	
2	(4 <= PACDFM < 12)	Occasional practice of leisure time activities	
3	PACDFM < 4	Infrequent practice of leisure time activities	

### 4) Transportation and Leisure Time Physical Activity Index

**Variable name:** PACDLTI

**Based on:** PACDTLE

**Description:** This variable categorizes respondents as being "active", "moderately active", or "inactive" in their transportation and leisure time based on the total daily Energy Expenditure values (kcal/kg/day) calculated for PACDTLE.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Transportation and Leisure Time Physical Activity Index follows the same criteria used in PACDPAI (Leisure Time Physical Activity Index).

Transportation physical activity is not collected exclusively in CCHS. For this reason, collected information cannot be presented separately from the leisure time physical activities.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDTLE = NS	Required question was not answered (not stated)	NS
1	(3 <= PACDTLE < NA)	Active	
2	(1.5 <= PACDTLE < 3.0)	Moderately active	
3	(0 <= PACDTLE < 1.5)	Inactive	

## 5) Leisure Time Physical Activity Index

**Variable name:** PACDPAI

**Based on:** PACDEE

**Description:** This variable categorizes respondents as being "active", "moderately active", or "inactive" in their leisure time based on the total daily Energy Expenditure values (kcal/kg/day) calculated for PACDEE.

**Introduced in:** CCHS - Cycle 1.1

**Note:** The Physical Activity Index follows the same criteria used to categorize individuals in the Ontario Health Survey (OHS) and in the Campbell's Survey on Well Being.

**Internet site:** Campbell Survey on Well-Being in Canada: <http://www.cflri.ca/pdf/e/88wkp.pdf>

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDEE = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(3 <= PACDEE < NA)	Active	
2	(1.5 <= PACDEE < 3.0)	Moderately active	
3	(0 <= PACDEE < 1.5)	Inactive	

## 6) Daily Energy Expenditure in Transportation and Leisure Time Physical Activities

**Variable name:** PACDTLE

**Based on:** PACDEE, PAC\_Q7, PAC\_Q7A, PAC\_Q7B, PAC\_Q8, PAC\_Q8A, PAC\_Q8B

**Description:** This variable is a measure of the average daily energy expended during transportation and leisure time physical activities by the respondent in the past three months.



**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** For more information on how this derived variable is calculated, see note in PACDEE (Daily Energy Expenditure in Leisure Time Physical Activities).

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>PACDTEA</b>			
0	PAC_7B = NA	Did not participate in transportation or leisure time physical activity	TRANSPORTATION - WALKING
0	(PAC_7B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	TRANSPORTATION - WALKING
$(PAC\_7A \times 4 \times .2167 \times 3) / 365$	PAC_7B = 1	Calculate EE for < 15 min*	TRANSPORTATION - WALKING
$(PAC\_7A \times 4 \times .3833 \times 3) / 365$	PAC_7B = 2	Calculate EE for 16 to 30 min*	TRANSPORTATION - WALKING
$(PAC\_7A \times 4 \times .75 \times 3) / 365$	PAC_7B = 3	Calculate EE for 31 to 60 min*	TRANSPORTATION - WALKING
$(PAC\_7A \times 4 \times 1 \times 3) / 365$	PAC_7B = 4	Calculate EE for > 60 min*	TRANSPORTATION - WALKING
<b>PACDTEA</b>			
0	PAC_8B = NA	Did not participate in transportation or leisure time physical activity	TRANSPORTATION - BICYCLING
0	(PAC_8B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	TRANSPORTATION - BICYCLING
$(PAC\_8A \times 4 \times .2167 \times 4) / 365$	PAC_8B = 1	Calculate EE for < 15 min*	TRANSPORTATION - BICYCLING
$(PAC\_8A \times 4 \times .3833 \times 4) / 365$	PAC_8B = 2	Calculate EE for 16 to 30 min*	TRANSPORTATION - BICYCLING
$(PAC\_8A \times 4 \times .75 \times 4) / 365$	PAC_8B = 3	Calculate EE for 31 to 60 min*	TRANSPORTATION - BICYCLING
$(PAC\_8A \times 4 \times 1 \times 4) / 365$	PAC_8B = 4	Calculate EE for > 60 min*	TRANSPORTATION - BICYCLING

Specifications			
Value	Condition(s)	Description	Notes
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS
99.9	(PACDEE = DK, R, NS) or (PAC_7B = DK, R, NS) or (PAC_8B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	(PACDEE = 0) and (PAC_7 = 2, 3) and (PAC_8 = 2, 3)	No transportation or leisure time physical activity	
PACDEE + PACDTEA + PACDTEA	(0 <= PACDEE < NA) and (0 <= PACDTEA < NA) and (0 <= PACDTEA < NA)	Total daily energy expenditure (kcal/kg/day)	(rounded to one decimal place)  (min: 0.0; max: 99.5)

## 7) Participant In Daily Leisure Time Physical Activity Lasting Over 15 Minutes

**Variable name:** PACFD

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**Based on:** PACDFM

**Description:** This variable indicates whether the respondent participated daily in leisure time physical activity lasting over 15 minutes.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable is based on values for Monthly Frequency of Physical Activity (PACDFM). Values for PACDFM reflect a one-month average based on data reported for a three-month period.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDFM = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(30 <= PACDFM < NA)	Participates in daily physical activity	
2	PACDFM < 30	Does not participate in daily physical activity	

## 8) Participant In Leisure Time Physical Activity

**Variable name:** PACFLEI

**Based on:** PAC\_1V

**Description:** This variable indicates whether the respondent participated in any leisure time physical activities in the three months prior to the interview.

**Introduced in:** CCHS - Cycle 1.1

**Source:** Ontario Health Survey

**Internet site:** [www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm](http://www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm)

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	PAC_1V = 1	Does not participate in leisure time physical activity	
1	PAC_1V = 2	Participates in leisure time physical activity	
9	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS

## 9) Participant In Transportation or Leisure Time Physical Activity

**Variable name:** PACFLT1

**Based on:** PAC\_1V, PAC\_7, PAC\_8

**Description:** This variable indicates whether the respondent participated in any transportation or leisure time physical activities in the three months prior to the interview.

**Introduced in:** CCHS - Cycle 4.1 - 2007

<b>Specifications</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	PAC_1V = 2 or PAC_7 = 1 or PAC_8 = 1	Participates in transportation or leisure time physical activity	
2	(PAC_1V = 1) and (PAC_7 = 2, 3) and (PAC_8 = 2, 3)	Does not participate in transportation or leisure time physical activity	
9	(PAC_1V = DK, R, NS) or (PAC_7 = DK, R, NS) or (PAC_8 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS

## Physical activities - Facilities at work (1 DV)

### 1 ) Access to Physical Activity Facilities at Work

<b>Variable name:</b>	PAFFACC
<b>Based on:</b>	PAF_01, PAF_02, PAF_03, PAF_04, PAF_05, PAF_06, PAF_07, PAF_08
<b>Description:</b>	This variable identifies whether respondents have access to physical activity facilities at or near their place of work.
<b>Introduced in:</b>	CCHS - Cycle 4.1 - 2007

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE < 15 or DHH_AGE > 75 or (LBS_01 = 2 and LBS_02 = 2) or LBS_01 = 3	Population exclusion	NA
1	(PAF_02 = 1) or (PAF_03 = 1) or (PAF_04 = 1) or (PAF_05 = 1) or (PAF_06 = 1) or (PAF_07 = 1) or (PAF_08 = 1)	Has access to physical activity facilities at or near place of work	
2	[(PAF_02 = 2) and (PAF_03 = 2) and (PAF_04 = 2) and (PAF_05 = 2) and (PAF_06 = 2) and (PAF_07 = 2) and (PAF_08 = 2)] or [(PAF_01 = 1) and (PAF_02 = 2) and (PAF_03 = 2) and (PAF_04 = 2) and (PAF_05 = 2)]	No access to physical activity facilities at or near place of work	
9	(LBS_01 = DK, R, NS) or (LBS_02 = DK, R, NS) or (PAF_02 = DK, R, NS) or (PAF_03 = DK, R, NS) or (PAF_04 = DK, R, NS) or (PAF_05 = DK, R, NS) or (PAF_06 = DK, R, NS) or (PAF_07 = DK, R, NS) or (PAF_08 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Psychological well-being (1 DV)

### 1 ) Psychological Well-Being Manifestation Scale (WBMMS)

**Variable name:** PWBDPW

**Based on:** PWB\_01, PWB\_02, PWB\_03, PWB\_04, PWB\_05, PWB\_06, PWB\_07, PWB\_08, PWB\_09, PWB\_10, PWB\_11, PWB\_12, PWB\_13, PWB\_14, PWB\_15, PWB\_16, PWB\_17, PWB\_18, PWB\_19, PWB\_20, PWB\_21, PWB\_22, PWB\_23, PWB\_24, PWB\_25

**Description:** This variable assesses the level of psychological well-being of the respondent.

**Introduced in:** CCHS - Cycle 2.1

**Note:** 1) The scale is base on questions proposed by Raymond Massé (Université Laval). The scale is discussed in the reference presented below.  
2) Higher scores indicate greater well-being.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>PWBT01</b>			
(5 - PWB_01)	PWB_01 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT02</b>			
(5 - PWB_02)	PWB_02 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT03</b>			
(5 - PWB_03)	PWB_03 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT04</b>			
(5 - PWB_04)	PWB_04 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT05</b>			
(5 - PWB_05)	PWB_05 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT06</b>			
(5 - PWB_06)	PWB_06 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.	
<b>PWBT07</b>			

(5 - PWB_07)	PWB_07 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT08</b>		
(5 - PWB_08)	PWB_08 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT09</b>		
(5 - PWB_09)	PWB_09 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT10</b>		
(5 - PWB_10)	PWB_10 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT11</b>		
(5 - PWB_11)	PWB_11 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT12</b>		
(5 - PWB_12)	PWB_12 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT13</b>		
(5 - PWB_13)	PWB_13 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT14</b>		
(5 - PWB_14)	PWB_14 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT15</b>		
(5 - PWB_15)	PWB_15 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT16</b>		
(5 - PWB_16)	PWB_16 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT17</b>		

(5 - PWB_17)	PWB_17 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT18</b>		
(5 - PWB_18)	PWB_18 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT19</b>		
(5 - PWB_19)	PWB_19 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT20</b>		
(5 - PWB_20)	PWB_20 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT21</b>		
(5 - PWB_21)	PWB_21 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT22</b>		
(5 - PWB_22)	PWB_22 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT23</b>		
(5 - PWB_23)	PWB_23 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT24</b>		
(5 - PWB_24)	PWB_24 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.
<b>PWBT25</b>		
(5 - PWB_25)	PWB_25 <= 5	Reverse code all responses so that higher scores reflect higher levels of well-being.  Change the scale from 1-5 to 0-4 so the summed scale will range from 0 to 100.

Specifications			
Value	Condition(s)	Description	Notes
996	PWBFOPT = 2	Module not selected	NA
999	ADM_PRX = 1	Module not asked - proxy interview	NS

999	(PWB_01 = DK, R, NS) or (PWB_02 = DK, R, NS) or (PWB_03 = DK, R, NS) or (PWB_04 = DK, R, NS) or (PWB_05 = DK, R, NS) or (PWB_06 = DK, R, NS) or (PWB_07 = DK, R, NS) or (PWB_08 = DK, R, NS) or (PWB_09 = DK, R, NS) or (PWB_10 = DK, R, NS) or (PWB_11 = DK, R, NS) or (PWB_12 = DK, R, NS) or (PWB_13 = DK, R, NS) or (PWB_14 = DK, R, NS) or (PWB_15 = DK, R, NS) or (PWB_16 = DK, R, NS) or (PWB_17 = DK, R, NS) or (PWB_18 = DK, R, NS) or (PWB_19 = DK, R, NS) or (PWB_20 = DK, R, NS) or (PWB_21 = DK, R, NS) or (PWB_22 = DK, R, NS) or (PWB_23 = DK, R, NS) or (PWB_24 = DK, R, NS) or (PWB_25 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
PWBT01 +	PWB_01 <= 5 and	Score obtained on the psychological well-being scale (min: 0; max: 100)	
PWBT02 +	PWB_02 <= 5 and		
PWBT03 +	PWB_03 <= 5 and		
PWBT04 +	PWB_04 <= 5 and		
PWBT05 +	PWB_05 <= 5 and		
PWBT06 +	PWB_06 <= 5 and		
PWBT07 +	PWB_07 <= 5 and		
PWBT08 +	PWB_08 <= 5 and		
PWBT09 +	PWB_09 <= 5 and		
PWBT10 +	PWB_10 <= 5 and		
PWBT11 +	PWB_11 <= 5 and		
PWBT12 +	PWB_12 <= 5 and		
PWBT13 +	PWB_13 <= 5 and		
PWBT14 +	PWB_14 <= 5 and		
PWBT15 +	PWB_15 <= 5 and		
PWBT16 +	PWB_16 <= 5 and		
PWBT17 +	PWB_17 <= 5 and		
PWBT18 +	PWB_18 <= 5 and		
PWBT19 +	PWB_19 <= 5 and		
PWBT20 +	PWB_20 <= 5 and		
PWBT21 +	PWB_21 <= 5 and		
PWBT22 +	PWB_22 <= 5 and		
PWBT23 +	PWB_23 <= 5 and		
PWBT24 +	PWB_24 <= 5 and		
PWBT25	PWB_25 <= 5		

Reference: "Élaboration et validation d'un outil de mesure du bien-être psychologique: L'ÉMMBEP" R. Massé, C. Poulin, C. Dassa, J. Lambert, S. Bélaïr, M.A. Battaglini. *Revue Canadienne de Santé Publique*, Vol. 89. No. 5, pp. 352-357.



## Restriction of activities (4 DVs)

### 1 ) Impact of Health Problems

**Variable name:** RACDIMP

**Based on:** RAC\_2A, RAC\_2B1, RAC\_2B2, RAC\_2C

**Description:** This variable is a crude measure of the impact of long-term physical conditions, mental conditions and health problems on the principal domains of life: home, work, school, and other activities.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable should not be used to describe the rate of disability or activity limitation in the population. The questions used to derive this variable, plus RAC\_1, were asked in the 2006 Census of Population to identify a sample for the 2006 post-censal Participation and Activity Limitation Survey (PALS).

Specifications			
Value	Condition(s)	Description	Notes
1	RAC_2A = 1 or RAC_2B1 = 1 or RAC_2B2 = 1 or RAC_2C = 1	Sometimes	
2	RAC_2A = 2 or RAC_2B1 = 2 or RAC_2B2 = 2 or RAC_2C = 2	Often	
3	RAC_2A = 3 and (RAC_2B1 = 3, 4) and (RAC_2B2 = 3, 4) and RAC_2C = 3	Never	
9	(RAC_2A = DK, R, NS) or (RAC_2B1 = DK, R, NS) or (RAC_2B2 = DK, R, NS) or (RAC_2C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2 ) Participation and Activity Limitation

**Variable name:** RACDPAL

**Based on:** RAC\_1, RAC\_2A, RAC\_2B1, RAC\_2B2, RAC\_2C

**Description:** This variable classifies respondents according to the frequency with which they experience activity limitations imposed on them by a condition(s) or by long-term physical and/or mental health problems that has lasted or is expected to last 6 months or more.

**Introduced in:** CCHS - Cycle 2.1

**Note:** This variable is the same as RACDIMP with the exception that RAC\_1 is used in the calculation. This variable is a modification of the Participation and Activity Limitation Survey (PALS) derived variables. Whereas PALS treats non-response (DK, R) as a negative response (set to "Never"), CCHS treats them as non-response and the derived variable is set to not-stated.

Specifications			
Value	Condition(s)	Description	Notes

9	(RAC_2A = DK, R, NS) or (RAC_2B1 = DK, R, NS) or (RAC_2B2 = DK, R, NS) or (RAC_2C = DK, R, NS) or (RAC_1 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
2	RAC_2A = 2 or RAC_2B1 = 2 or RAC_2B2 = 2 or RAC_2C = 2 or RAC_1 = 2	Often	
1	RAC_2A = 1 or RAC_2B1 = 1 or RAC_2B2 = 1 or RAC_2C = 1 or RAC_1 = 1	Sometimes	
3	RAC_2A = 3 and (RAC_2B1 = 3, 4) and (RAC_2B2 = 3, 4) and RAC_2C = 3 and RAC_1 = 3	Never	

### 3) Need for Help in Series of Tasks

**Variable name:** RACF6R

**Based on:** RAC\_6A, RAC\_6B1, RAC\_6C, RAC\_6E, RAC\_6F, RAC\_6G

**Description:** This variable classifies respondents according to their need for help (because of health reasons) with instrumental activities of daily living such as preparing meals, shopping for groceries or other necessities, doing everyday housework, doing heavy household chores (washing walls, yard work), and personal care (washing, dressing or eating), moving about inside the house or paying bills.

**Introduced in:** CCHS - Cycle 2.1

**Note:** RACF6R is modified from RACAF6 (CCHS Cycle 1.1) by adding RAC\_6G. The series of tasks included was revised based on the Participation and Activity Limitation Survey. Hence, this derived variable has been modified to take into account the revised set of tasks and thus this DV is not entirely comparable to RACAF6.

#### Specifications

Value	Condition(s)	Description	Notes
1	RAC_6A = 1 or RAC_6B1 = 1 or RAC_6C = 1 or RAC_6E = 1 or RAC_6F = 1 or RAC_6G = 1	Needs help with at least one task	
2	RAC_6A = 2 and RAC_6B1 = 2 and RAC_6C = 2 and RAC_6E = 2 and RAC_6F = 2 and RAC_6G = 2	Does not need help	
9	(RAC_6A = DK, R, NS) or (RAC_6B1 = DK, R, NS) or (RAC_6C = DK, R, NS) or (RAC_6E = DK, R, NS) or (RAC_6F = DK, R, NS) or (RAC_6G = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

#### 4 ) Cause of health problem

**Variable name:** RACG5

**Based on:** RAC\_5

**Description:** This variable indicates the cause of the respondent's health problem. It is a regrouping of RAC\_5.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
NA	RAC_5 = NA	Not applicable	
NS	RAC_5 = DK, R or NS	Not stated	
1	1 <= RAC_5 <= 4	Injury (includes injury at home, sports or recreation, motor vehicle, work related)	
2	RAC_5 = 7	Disease or illness	
3	RAC_5 = 8	Aging	
4	RAC_5 = 5	Existed at birth or genetic	
5	RAC_5 = 6	Work conditions	
6	RAC_5 = 9 or RAC_5 = 10 or RAC_5 = 11	Other(psychological/physical abuse, use of alcohol or drugs, other)	

## Repetitive strain injuries (1 DV)

### 1 ) Repetitive strain injury

**Variable name:** REPG3

**Based on:** REP\_3

**Description:** This variable indicates the body part affected by the repetitive strain injury. It is a regrouping of REP\_3.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
NA	REP_3 = NA	Not applicable	
NS	REP_3 = NS	Respondent did not answer (don't know, refusal, not specified)	
1	REP_3 = 2	Neck	
2	REP_3 = 3	Shoulder/upper arm	
3	REP_3 = 4	Elbow/lower arm	
4	REP_3 = 5	Wrist/hand	
5	REP_3 = 8	Knee/lower leg	
6	REP_3 = 9	Ankle/foot	
7	REP_3 = 10	Upper back/upper spine	
8	REP_3 = 11	Lower back/lower spine	
9	REP_3 = 1 or REP_3 = 6 or REP_3 = 7 or REP_3 = 12, REP_3 = 13	Other(includes head, hip, thigh, chest, abdomen or pelvis)	

## Sedentary activities (2 DVs)

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>SACT1</b>			
0	SAC_1 = 1	Recode to midpoint of response ranges	
0.5	SAC_1 = 2	Recode to midpoint of response ranges	
1.5	SAC_1 = 3	Recode to midpoint of response ranges	
4	SAC_1 = 4	Recode to midpoint of response ranges	
8	SAC_1 = 5	Recode to midpoint of response ranges	
12.5	SAC_1 = 6	Recode to midpoint of response ranges	
17.5	SAC_1 = 7	Recode to midpoint of response ranges	
20	SAC_1 = 8	Recode to midpoint of response ranges	
<b>SACT2</b>			
0	SAC_2 = 1	Recode to midpoint of response ranges	
0.5	SAC_2 = 2	Recode to midpoint of response ranges	
1.5	SAC_2 = 3	Recode to midpoint of response ranges	
4	SAC_2 = 4	Recode to midpoint of response ranges	
8	SAC_2 = 5	Recode to midpoint of response ranges	
12.5	SAC_2 = 6	Recode to midpoint of response ranges	
17.5	SAC_2 = 7	Recode to midpoint of response ranges	
20	SAC_2 = 8	Recode to midpoint of response ranges	
<b>SACT3</b>			
0	SAC_3 = 1	Recode to midpoint of response ranges	
0.5	SAC_3 = 2	Recode to midpoint of response ranges	
1.5	SAC_3 = 3	Recode to midpoint of response ranges	
4	SAC_3 = 4	Recode to midpoint of response ranges	
8	SAC_3 = 5	Recode to midpoint of response ranges	
12.5	SAC_3 = 6	Recode to midpoint of response ranges	
17.5	SAC_3 = 7	Recode to midpoint of response ranges	
20	SAC_3 = 8	Recode to midpoint of response ranges	
<b>SACT4</b>			
0	SAC_4 = 1	Recode to midpoint of response ranges	
0.5	SAC_4 = 2	Recode to midpoint of response ranges	
1.5	SAC_4 = 3	Recode to midpoint of response ranges	
4	SAC_4 = 4	Recode to midpoint of response ranges	
8	SAC_4 = 5	Recode to midpoint of response ranges	
12.5	SAC_4 = 6	Recode to midpoint of response ranges	
17.5	SAC_4 = 7	Recode to midpoint of response ranges	
20	SAC_4 = 8	Recode to midpoint of response ranges	

### 1 ) Total number of hours per week spent in sedentary activities (excluding reading)

Variable name: SACDTER

**Based on:** SAC\_1, SAC\_2, SAC\_3

**Description:** This variable estimates the total number of hours the respondent spent in a typical week in the past three months in sedentary activities including using a computer (including playing computer games), using the Internet, playing video games (e.g. Nintendo, PlayStation), and watching television or videos. For all activities, the time spent at school or work is excluded. Time spent in reading is not included.

**Introduced in:** CCHS - Cycle 4.1 - 2007

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>SACTTER</b>			
96	SACT1 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	SACT1 = DK, R, NS) or SACT2 = DK, R, NS) or SACT3 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SACT1 + SACT2 + SACT3	(0 <= SACT1 <= 20) and (0 <= SACT2 <= 20) and (0 <= SACT3 <= 20)	Total number of hours per week spent in sedentary activities (excluding reading) where the respondent is aged < 20	
SACT1 + SACT3	(0 <= SACT1 <= 20) and (0 <= SACT3 <= 20)	Total number of hours per week spent in sedentary activities (excluding reading) where the respondent is aged >= 20	

Specifications			
Value	Condition(s)	Description	Notes
96	SACTTER = NA	Population exclusion	NA
99	SACTTER = NS	Module not asked - proxy interview or at least one required question was not answered (don't know, refusal, not stated)	NS
1	(0 <= SACTTER < 5)	Less than 5 hours	
2	(5 <= SACTTER < 10)	From 5 to 9 hours	
3	(10 <= SACTTER < 15)	From 10 to 14 hours	
4	(15 <= SACTTER < 20)	From 15 to 19 hours	
5	(20 <= SACTTER < 25)	From 20 to 24 hours	
6	(25 <= SACTTER < 30)	From 25 to 29 hours	
7	(30 <= SACTTER < 35)	From 30 to 34 hours	
8	(35 <= SACTTER < 40)	From 35 to 39 hours	
9	(40 <= SACTTER < 45)	From 40 to 44 hours	
10	(45 <= SACTTER < NA)	45 hours or more	

## 2) Total Number of Hours Per Week Spent In Sedentary Activities

**Variable name:** SACDTOT

**Based on:** SAC\_1, SAC\_2, SAC\_3, SAC\_4

**Description:** This variable estimates the total number of hours the respondent spent in a typical week in the past three months in sedentary

activities including using a computer (including playing computer games), using the Internet, playing video games (e.g. Nintendo, PlayStation), watching television or videos and reading. For all activities, the time spent at school or work is excluded.

**Introduced in:** CCHS - Cycle 1.1

#### Temporary Reformat

Value	Condition(s)	Description	Notes
<b>SAC</b>			
96	SACT1 = NA	Population exclusion	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SACT1 = DK, R, NS) or (SACT2 = DK, R, NS) or (SACT3 = DK, R, NS) or (SACT4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SACT1+SACT2+ SACT3+SACT4	(0 <= SACT1 <= 20) and (0 <= SACT2 <= 20) and (0 <= SACT3 <= 20) and (0 <= SACT4 <= 20)	Total number of hours spent in sedentary activities where the respondent is aged < 20	
SACT1+SACT3+SA CT4	(0 <= SACT1 <= 20) and SACT2 = NA and (0 <= SACT3 <= 20) and (0 <= SACT4 <= 20)	Total number of hours spent in sedentary activities where respondent is aged >=20	

#### Specifications

Value	Condition(s)	Description	Notes
96	SAC = NA	Module not selected	NA
99	SAC = NS	Module not asked - proxy interview	NS
99	SAC = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(0 <= SAC < 5)	Less than 5 hours	
2	(5 <= SAC < 10)	From 5 to 9 hours	
3	(10 <= SAC < 15)	From 10 to 14 hours	
4	(15 <= SAC < 20)	From 15 to 19 hours	
5	(20 <= SAC < 25)	From 20 to 24 hours	
6	(25 <= SAC < 30)	From 25 to 29 hours	
7	(30 <= SAC < 35)	From 30 to 34 hours	
8	(35 <= SAC < 40)	From 35 to 39 hours	
9	(40 <= SAC < 45)	From 40 to 44 hours	
10	(45 <= SAC < NA)	More than 45 hours	

## Sample variables (2 DVs)

### 1 ) Permission to Link

**Variable name:** SAMDLNK

**Based on:** ADM\_Q01B (Link question from main component [not on file])

**Description:** This variable indicates whether or not the respondent agreed to allow their questionnaire data to be linked with administrative records of their past and current use of health services.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_Q01B = NS	Respondent was not asked the link question	NS
1	ADM_Q01B = 1	Respondent agreed to link information	
2	Else	Respondent did not agree to link information	

### 2 ) Permission to Share Data

**Variable name:** SAMDSHR

**Based on:** ADM\_Q04B (Share question from the main component [not on file]), PS\_Q01 (Share question from the Exit component [not on file]).

**Description:** This variable indicates whether or not the respondent agreed to share the information collected in the survey with the provincial ministries of health, Health Canada, the Public Health Agency of Canada, and the "Institut de la Statistique du Québec" for Quebec respondents, as stated in ADM\_Q04B and PS\_Q01. The variable SAMDSHR is calculated from the responses to the Share questions in the main component (ADM\_Q04B) and to the Exit component (PS\_Q01).

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_Q04B = NS and PS_Q01 = NS	Respondent was not asked to share information	NS
1	(ADM_Q04B = 1 and PS_Q01 <> 2) or (ADM_Q04B <> 2 and PS_Q01 = 1)	Respondent agreed to share information	
2	Else	Respondent did not agree to share information	



## Smoking cessation methods (1 DV)

### 1 ) Attempted/Successful Quitting

**Variable name:** SCADQUI

**Based on:** SMKDSTY, SMK\_01A, SMK\_202, SMK\_06A, SMK\_09A, SMK\_10, SMK\_10A, SCA\_50, SCH\_3

**Description:** This variable classifies respondents into 4 categories: (a) current daily or occasional smokers who have not tried to quit in the past year, (b) current daily or occasional smokers who have tried to quit unsuccessfully in the past year, (c) former smokers who have successfully quit smoking in the past year and (d) former smokers who have successfully quit smoking more than 1 year ago.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Current non-smokers and respondents who smoked less than 100 cigarettes in their lifetime were excluded from the population.  
This derived variable can only be calculated for health regions that also selected the Smoking - Stages of Change (SCH) module.

Specifications			
Value	Condition(s)	Description	Notes
6	SCAFOPT = 2	Module not selected	NA
6	SMK_01A = 2 and SMK_202 = 3	Population exclusion	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(SMK_202 = 1, 2) and (SCA_50 = 2 or SCH_3 = 2)	Did not try to quit last year (current daily or occasional smoker)	
2	(SMK_202 = 1, 2) and (SCA_50 = 1 or SCH_3 = 1)	Tried to quit unsuccessfully in the last year (current daily or occasional smoker)	
3	(SMKDSTY = 4, 5) and (SMK_06A = 1 or SMK_09A = 1 or SMK_10a = 1)	Successfully quit in the last year (former smoker)	
4	(SMKDSTY = 4, 5) and [(2 <= SMK_06A <=4) or (SMK_10 = 1 and (2 <= SMK_09A <=4)) or (2 <= SMK_10A <=4)]	Successfully quit more than 1 year ago (former smoker)	
9	SMKDSTY = NS or (SMK_202 = DK, R, NS) or (SMK_06A = DK, R, NS) or (SMK_09A = DK, R, NS) or (SMK_10 = DK, R, NS) or (SMK_10A = DK, R, NS) or (SCA_50 = DK, R, NS) or (SCH_3 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Smoking - Stages of change (1 DV)

The stages of change model defines five stages of change in the process of smoking cessation:

- 1) Precontemplation - The person has no intention of changing behaviour in the foreseeable future (for example, quitting smoking).
- 2) Contemplation - The person is aware of the problem and is seriously thinking about changing the behaviour but has not yet made a commitment to take action or is not confident of being able to sustain the behavioural change (that is, seriously thinking of quitting in the next 30 days but did not try to quit for at least 24 hours in the past 12 months, or seriously thinking of quitting smoking in the next 6 months but not in the next 30 days).
- 3) Preparation - The person is seriously planning to take action in the next month and is confident of success (that is, seriously thinking of quitting smoking in the next 30 days and has already stopped smoking at least once during the past 12 months).
- 4) Action - The person has successfully modified the behaviour within the past 6 months (that is, has quit smoking less than six months ago).
- 5) Maintenance - The person has maintained the behaviour change for at least six months (that is, has quit smoking at least six months ago).

### 1) Smoking Stages of Change (Current and Former Smokers)

**Variable name:** SCHDSTG

**Based on:** SMK\_202, SMK\_06A, SMK\_06B, SMK\_09A, SMK\_09B, SMK\_10, SMK\_10A, SMK\_10B, SCH\_1, SCH\_2, SCH\_3, SCH\_4, ADM\_MOI

**Description:** This variable classifies current and former smokers into categories based on the stages of change model.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	SCHFOPT= 2	Module not selected	NA
6	SMK_202 = 3 and SMK_01A = 2	Population exclusion	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	(SMK_202 = 1, 2) and SCH_1 = 2	Precontemplation stage (Current daily or occasional smokers)	
2	(SMK_202 = 1, 2) and [(SCH_1 = 1 and SCH_2 = 2) or (SCH_2 = 1 and SCH_3 = 2)]	Contemplation stage (Current daily or occasional smokers)	
3	(SMK_202 = 1, 2) and SCH_2 = 1 and (1 <= SCH_4 <= 95)	Preparation stage (Current daily or occasional smokers)	
4	SMK_202 = 3 and (SMK_06B < 6 months from ADM_MOI) or SMK_202 = 3 and SMK_10 = 1 and (SMK_09B < 6 months from ADM_MOI) or SMK_202 = 3 and (SMK_10B < 6 months from ADM_MOI)	Action stage (Former smoker)	
5	SMK_202 = 3 and [(SMK_06A = 2, 3, 4) or (SMK_06B >= 6 months from ADM_MOI)] or SMK_202 = 3 and SMK_10 = 1 and [(SMK_09A = 2, 3, 4) or (SMK_09B >= 6 months from ADM_MOI)] or SMK_202 = 3 and [(SMK_10A = 2, 3, 4) or (SMK_10B >= 6 months from ADM_MOI)]	Maintenance stage (Former smoker)	

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9	(SMK_202 = DK, R, NS) or (SMK_06B = DK, R, NS) or (SMK_09B = DK, R, NS) or (SMK_10 = DK, R, NS) or (SMK_10B = DK, R, NS) or (SCH_1 = DK, R, NS) or (SCH_2 = DK, R, NS) or (SCH_3 = DK, R, NS) or (SCH_4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
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Reference: DiClemente, C.C., Prochaska, J.O., Fairhurst, S., Velicer, W.F., Rossi J.S., & Velasquez, M. (1991). The process of smoking cessation: An analysis of precontemplation, contemplation and contemplation/action. *Journal of Consulting and Clinical Psychology*, 59, 295-304.

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## Socio-demographic characteristics (15 DVs)

### 1) Country of birth code

**Variable name:** SDCCCB

**Based on:** SDC\_1, SDC\_1S

**Description:** This variable gives the respondent's country of birth.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Coded automatically from SDC\_1 and SDC\_1S ("other specify" write-in answer) using Reference file from the Census.

### 2) Aboriginal Identity

**Variable name:** SDCDABT

**Based on:** SDC\_41

**Description:** This derived variable indicates whether the respondent reported being an aboriginal person.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Prior to June 2005 (middle of Cycle 3.1), respondents were able to report aboriginal background in combination with other cultural or racial backgrounds. All aboriginal respondents were assigned a value of 1 for that variable regardless of whether they reported aboriginal background singly or in combination with non-aboriginal background. Since June 2005, respondents identifying themselves as Aboriginal are not asked SDC\_Q4\_3A to SDC\_Q4\_3L, which collect information on other backgrounds. This change was introduced in order to align with the procedures used in the 2006 Census.

#### Specifications

Value	Condition(s)	Description	Notes
9	SDC_41 = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	SDC_41 = 1	Aboriginal identity (North American Indian, Métis, Inuit)	
2	SDC_41 = 2	Non-Aboriginal identity	

### 3) Age at time of immigration

**Variable name:** SDCDAIM

**Based on:** SDC\_3, DHH\_YOB

**Description:** This variable indicates the age of the respondent at the time of immigration.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Non-immigrants were excluded from the population.

#### Specifications

Value	Condition(s)	Description	Notes
996	SDC_3 = NA	Population exclusion	NA
999	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
SDC_3 - DHH_YOB	SDC_3 < NA	Age at time of immigration	[min: 0; max: 130 (current age)]

#### 4) Cultural / Racial Background

**Variable name:** SDCDCGT

**Based on:** SDC\_43A, SDC\_43B, SDC\_43C, SDC\_43D, SDC\_43E, SDC\_43F, SDC\_43G, SDC\_43H, SDC\_43I, SDC\_43J, SDC\_43K, SDC\_43L, SDC\_43M

**Description:** This variable indicates the cultural or racial background of the respondent. Since the middle of cycle 3.1, this variable excludes all respondents who identify as aboriginal in SDC\_41. (The exclusion of aboriginals from this variable was introduced in the middle of cycle 3.1 to align with Census 2006 procedures).

**Introduced in:** CCHS - Cycle 3.1

**Note:** Prior to June 1995, the derived variable included the categories "multiple cultural or racial origins" and "aboriginal only". Respondents who reported Aboriginal origin in combination with any other origin were classified as "multiple cultural or racial origins" and respondents who reported Aboriginal origin but no other origin were classified as "Aboriginal only" for the derived variable. Beginning in June 2005, respondents who identified themselves as aboriginal (SDC\_41=1) were not asked about their cultural or racial background. This change was introduced in order to align with the procedures used in the 2006 Census.

#### Specifications

Value	Condition(s)	Description	Notes
99	(SDC_43A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
96	SDC_41 = 1	Aboriginal identity	NA
1	SDC_43A = 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	White only	
2	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D = 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Black only	

3	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K = 1 and SDC_43M > 1	Korean only
4	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E = 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Filipino only
5	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J = 1 and SDC_43K > 1 and SDC_43M > 1	Japanese only
6	SDC_43A > 1 and SDC_43B = 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Chinese only
7	SDC_43A > 1 and SDC_43B > 1 and SDC_43C = 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	South Asian only

8	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G = 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Southeast Asian only
9	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H = 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Arab only
10	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I = 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	West Asian only
11	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F = 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Latin American only
12	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M = 1	Other racial or cultural origin (only)
13	SDC_41 > 1 and More than one category answered From SDC_43A to SDC_43M.	Multiple racial or cultural origins

## 5) First official language learned and still understood

**Variable name:** SDCDFL1

**Based on:** SDC\_6A, SDC\_6B, SDC\_6C, SDC\_6D, SDC\_6E, SDC\_6F, SDC\_6G, SDC\_5H, SDC\_6I, SDC\_6J, SDC\_6K, SDC\_6L, SDC\_6M, SDC\_6N, SDC\_6O, SDC\_6P, SDC\_6Q, SDC\_6R, SDC\_6S, SDC\_6T, SDC\_6U, SDC\_6V, SDC\_6W

**Description:** This variable indicates the first official language learned and still understood by the respondent.

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_6A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDC_6A = 1 and SDC_6B > 1 and SDC_6C > 1 and SDC_6D > 1 and SDC_6E > 1 and SDC_6F > 1 and SDC_6G > 1 and SDC_6H > 1 and SDC_6I > 1 and SDC_6J > 1 and SDC_6K > 1 and SDC_6L > 1 and SDC_6M > 1 and SDC_6N > 1 and SDC_6O > 1 and SDC_6P > 1 and SDC_6Q > 1 and SDC_6R > 1 and SDC_6S > 1 and SDC_6T > 1 and SDC_6U > 1 and SDC_6V > 1 and SDC_6W > 1	English only	
2	SDC_6A > 1 and SDC_6B = 1 and SDC_6C > 1 and SDC_6D > 1 and SDC_6E > 1 and SDC_6F > 1 and SDC_6G > 1 and SDC_6H > 1 and SDC_6I > 1 and SDC_6J > 1 and SDC_6K > 1 and SDC_6L > 1 and SDC_6M > 1 and SDC_6N > 1 and SDC_6O > 1 and SDC_6P > 1 and SDC_6Q > 1 and SDC_6R > 1 and SDC_6S > 1 and SDC_6T > 1 and SDC_6U > 1 and SDC_6V > 1 and SDC_6W > 1	French only	



3	(SDC_6A = 1 and SDC_6B = 1) and SDC_6C > 1 and SDC_6D > 1 and SDC_6E > 1 and SDC_6F > 1 and SDC_6G > 1 and SDC_6H > 1 and SDC_6I > 1 and SDC_6J > 1 and SDC_6K > 1 and SDC_6L > 1 and SDC_6M > 1 and SDC_6N > 1 and SDC_6O > 1 and SDC_6P > 1 and SDC_6Q > 1 and SDC_6R > 1 and SDC_6S > 1 and SDC_6T > 1 and SDC_6U > 1 and SDC_6V > 1 and SDC_6W > 1	English and French only
4	(SDC_6A = 1 and SDC_6B = 1) and (SDC_6C = 1 or SDC_6D = 1 or SDC_6E = 1 or SDC_6F = 1 or SDC_6G = 1 or SDC_6H = 1 or SDC_6I = 1 or SDC_6J = 1 or SDC_6K = 1 or SDC_6L = 1 or SDC_6M = 1 or SDC_6N = 1 or SDC_6O = 1 or SDC_6P = 1 or SDC_6Q = 1 or SDC_6R = 1 or SDC_6S = 1 or SDC_6T = 1 or SDC_6U = 1 or SDC_6V = 1 or SDC_6W = 1)	English, French and Other
5	(SDC_6A = 1 and SDC_6B > 1) and (SDC_6C = 1 or SDC_6D = 1 or SDC_6E = 1 or SDC_6F = 1 or SDC_6G = 1 or SDC_6H = 1 or SDC_6I = 1 or SDC_6J = 1 or SDC_6K = 1 or SDC_6L = 1 or SDC_6M = 1 or SDC_6N = 1 or SDC_6O = 1 or SDC_6P = 1 or SDC_6Q = 1 or SDC_6R = 1 or SDC_6S = 1 or SDC_6T = 1 or SDC_6U = 1 or SDC_6V = 1 or SDC_6W = 1)	English and Other (not French)

6	(SDC_6A > 1 and SDC_6B = 1) and (SDC_6C = 1 or SDC_6D = 1 or SDC_6E = 1 or SDC_6F = 1 or SDC_6G = 1 or SDC_6H = 1 or SDC_6I = 1 or SDC_6J = 1 or SDC_6K = 1 or SDC_6L = 1 or SDC_6M = 1 or SDC_6N = 1 or SDC_6O = 1 or SDC_6P = 1 or SDC_6Q = 1 or SDC_6R = 1 or SDC_6S = 1 or SDC_6T = 1 or SDC_6U = 1 or SDC_6V = 1 or SDC_6W = 1)	French and Other (not English)
7	(SDC_6A > 1 and SDC_6B > 1) and (SDC_6C = 1 or SDC_6D = 1 or SDC_6E = 1 or SDC_6F = 1 or SDC_6G = 1 or SDC_6H = 1 or SDC_6I = 1 or SDC_6J = 1 or SDC_6K = 1 or SDC_6L = 1 or SDC_6M = 1 or SDC_6N = 1 or SDC_6O = 1 or SDC_6P = 1 or SDC_6Q = 1 or SDC_6R = 1 or SDC_6S = 1 or SDC_6T = 1 or SDC_6U = 1 or SDC_6V = 1 or SDC_6W = 1)	Other (neither English nor French)

**6) Language(s) spoken at home**

**Variable name:** SDCDLHM

**Based on:** SDC\_5AA, SDC\_5AB, SDC\_5AC, SDC\_5AD, SDC\_5AE, SDC\_5AF, SDC\_5AG, SDC\_5AH, SDC\_5AI, SDC\_5AJ, SDC\_5AK, SDC\_5AL, SDC\_5AM, SDC\_5AN, SDC\_5AO, SDC\_5AP, SDC\_5AQ, SDC\_5AR, SDC\_5AS, SDC\_5AT, SDC\_5AU, SDC\_5AV, SDC\_5AW

**Description:** This variable indicates the language(s) in which the respondent most often speaks at home.

**Introduced in:** CCHS - Cycle 4.1 - 2007

**Note:** Prior to 2007, SDC\_Q5 was a mark one question. Multiple answers are now allowed.

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_5AA =DK, R, NS)	Required question was not answered (don't know,	NS

refusal, not stated)

1	SDC_5AA = 1 and SDC_5AB > 1 and SDC_5AC > 1 and SDC_5AD > 1 and SDC_5AE > 1 and SDC_5AF > 1 and SDC_5AG > 1 and SDC_5AH > 1 and SDC_5AI > 1 and SDC_5AJ > 1 and SDC_5AK > 1 and SDC_5AL > 1 and SDC_5AM > 1 and SDC_5AN > 1 and SDC_5AO > 1 and SDC_5AP > 1 and SDC_5AQ > 1 and SDC_5AR > 1 and SDC_5AS > 1 and SDC_5AT > 1 and SDC_5AU > 1 and SDC_5AV > 1 and SDC_5AW > 1	English only
2	SDC_5AA > 1 and SDC_5AB = 1 and SDC_5AC > 1 and SDC_5AD > 1 and SDC_5AE > 1 and SDC_5AF > 1 and SDC_5AG > 1 and SDC_5AH > 1 and SDC_5AI > 1 and SDC_5AJ > 1 and SDC_5AK > 1 and SDC_5AL > 1 and SDC_5AM > 1 and SDC_5AN > 1 and SDC_5AO > 1 and SDC_5AP > 1 and SDC_5AQ > 1 and SDC_5AR > 1 and SDC_5AS > 1 and SDC_5AT > 1 and SDC_5AU > 1 and SDC_5AV > 1 and SDC_5AW > 1	French only
3	SDC_5AA = 1 and SDC_5AB = 1 and SDC_5AC > 1 and SDC_5AD > 1 and SDC_5AE > 1 and SDC_5AF > 1 and SDC_5AG > 1 and SDC_5AH > 1 and SDC_5AI > 1 and SDC_5AJ > 1 and SDC_5AK > 1 and SDC_5AL > 1 and SDC_5AM > 1 and SDC_5AN > 1 and SDC_5AO > 1 and SDC_5AP > 1 and SDC_5AQ > 1 and SDC_5AR > 1 and SDC_5AS > 1 and SDC_5AT > 1 and SDC_5AU > 1 and SDC_5AV > 1 and SDC_5AW > 1	English and French only

4	(SDC_5AA = 1 and SDC_5AB = 1) and (SDC_5AC = 1 or SDC_5AD = 1 or SDC_5AE = 1 or SDC_5AF = 1 or SDC_5AG = 1 or SDC_5AH = 1 or SDC_5AI = 1 or SDC_5AJ = 1 or SDC_5AK = 1 or SDC_5AL = 1 or SDC_5AM = 1 or SDC_5AN = 1 or SDC_5AO = 1 or SDC_5AP = 1 or SDC_5AQ = 1 or SDC_5AR = 1 or SDC_5AS = 1 or SDC_5AT = 1 or SDC_5AU = 1 or SDC_5AV = 1 or SDC_5AW = 1)	English, French and Other
5	(SDC_5AA = 1 and SDC_5AB > 1) and (SDC_5AC = 1 or SDC_5AD = 1 or SDC_5AE = 1 or SDC_5AF = 1 or SDC_5AG = 1 or SDC_5AH = 1 or SDC_5AI = 1 or SDC_5AJ = 1 or SDC_5AK = 1 or SDC_5AL = 1 or SDC_5AM = 1 or SDC_5AN = 1 or SDC_5AO = 1 or SDC_5AP = 1 or SDC_5AQ = 1 or SDC_5AR = 1 or SDC_5AS = 1 or SDC_5AT = 1 or SDC_5AU = 1 or SDC_5AV = 1 or SDC_5AW = 1)	English and Other (not French)
6	(SDC_5AA > 1 and SDC_5AB = 1) and (SDC_5AC = 1 or SDC_5AD = 1 or SDC_5AE = 1 or SDC_5AF = 1 or SDC_5AG = 1 or SDC_5AH = 1 or SDC_5AI = 1 or SDC_5AJ = 1 or SDC_5AK = 1 or SDC_5AL = 1 or SDC_5AM = 1 or SDC_5AN = 1 or SDC_5AO = 1 or SDC_5AP = 1 or SDC_5AQ = 1 or SDC_5AR = 1 or SDC_5AS = 1 or SDC_5AT = 1 or SDC_5AU = 1 or SDC_5AV = 1 or SDC_5AW = 1)	French and Other (not English)

7	(SDC_5AA > 1 and SDC_5AB > 1) and (SDC_5AC = 1 or SDC_5AD = 1 or SDC_5AE = 1 or SDC_5AF = 1 or SDC_5AG = 1 or SDC_5AH = 1 or SDC_5AI = 1 or SDC_5AJ = 1 or SDC_5AK = 1 or SDC_5AL = 1 or SDC_5AM = 1 or SDC_5AN = 1 or SDC_5AO = 1 or SDC_5AP = 1 or SDC_5AQ = 1 or SDC_5AR = 1 or SDC_5AS = 1 or SDC_5AT = 1 or SDC_5AU = 1 or SDC_5AV = 1 or SDC_5AW = 1)	Other (neither English nor French)
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## 7) Language(s) in which respondent can converse

**Variable name:** SDCDLNG

**Based on:** SDC\_5A, SDC\_5B, SDC\_5C, SDC\_5D, SDC\_5E, SDC\_5F, SDC\_5G, SDC\_5H, SDC\_5I, SDC\_5J, SDC\_5K, SDC\_5L, SDC\_5M, SDC\_5N, SDC\_5O, SDC\_5P, SDC\_5Q, SDC\_5R, SDC\_5S, SDC\_5T, SDC\_5U, SDC\_5V, SDC\_5W

**Description:** This variable indicates the language(s) in which the respondent can converse.

**Introduced in:** CCHS - Cycle 1.1

### Specifications

Value	Condition(s)	Description	Notes
99	(SDC_5A =DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDC_5A = 1 and SDC_5B > 1 and SDC_5C > 1 and SDC_5D >1 and SDC_5E > 1 and SDC_5F > 1 and SDC_5G > 1 and SDC_5H > 1 and SDC_5I > 1 and SDC_5J > 1 and SDC_5K > 1 and SDC_5L > 1 and SDC_5M > 1 and SDC_5N > 1 and SDC_5O > 1 and SDC_5P > 1 and SDC_5Q > 1 and SDC_5R > 1 and SDC_5S > 1 and SDC_5T > 1 and SDC_5U > 1 and SDC_5V > 1 and SDC_5W > 1	English only	

2	SDC_5A > 1 and SDC_5B = 1 and SDC_5C > 1 and SDC_5D > 1 and SDC_5E > 1 and SDC_5F > 1 and SDC_5G > 1 and SDC_5H > 1 and SDC_5I > 1 and SDC_5J > 1 and SDC_5K > 1 and SDC_5L > 1 and SDC_5M > 1 and SDC_5N > 1 and SDC_5O > 1 and SDC_5P > 1 and SDC_5Q > 1 and SDC_5R > 1 and SDC_5S > 1 and SDC_5T > 1 and SDC_5U > 1 and SDC_5V > 1 and SDC_5W > 1	French only
3	SDC_5A = 1 and SDC_5B = 1 and SDC_5C > 1 and SDC_5D > 1 and SDC_5E > 1 and SDC_5F > 1 and SDC_5G > 1 and SDC_5H > 1 and SDC_5I > 1 and SDC_5J > 1 and SDC_5K > 1 and SDC_5L > 1 and SDC_5M > 1 and SDC_5N > 1 and SDC_5O > 1 and SDC_5P > 1 and SDC_5Q > 1 and SDC_5R > 1 and SDC_5S > 1 and SDC_5T > 1 and SDC_5U > 1 and SDC_5V > 1 and SDC_5W > 1	English and French only
4	(SDC_5A = 1 and SDC_5B = 1) and (SDC_5C = 1 or SDC_5D = 1 or SDC_5E = 1 or SDC_5F = 1 or SDC_5G = 1 or SDC_5H = 1 or SDC_5I = 1 or SDC_5J = 1 or SDC_5K = 1 or SDC_5L = 1 or SDC_5M = 1 or SDC_5N = 1 or SDC_5O = 1 or SDC_5P = 1 or SDC_5Q = 1 or SDC_5R = 1 or SDC_5S = 1 or SDC_5T = 1 or SDC_5U = 1 or SDC_5V = 1 or SDC_5W = 1)	English, French and Other

5	(SDC_5A = 1 and SDC_5B > 1) and (SDC_5C = 1 or SDC_5D = 1 or SDC_5E = 1 or SDC_5F = 1 or SDC_5G = 1 or SDC_5H = 1 or SDC_5I = 1 or SDC_5J = 1 or SDC_5K = 1 or SDC_5L = 1 or SDC_5M = 1 or SDC_5N = 1 or SDC_5O = 1 or SDC_5P = 1 or SDC_5Q = 1 or SDC_5R = 1 or SDC_5S = 1 or SDC_5T = 1 or SDC_5U = 1 or SDC_5V = 1 or SDC_5W = 1)	English and Other (not French)
6	(SDC_5A > 1 and SDC_5B = 1) and (SDC_5C = 1 or SDC_5D = 1 or SDC_5E = 1 or SDC_5F = 1 or SDC_5G = 1 or SDC_5H = 1 or SDC_5I = 1 or SDC_5J = 1 or SDC_5K = 1 or SDC_5L = 1 or SDC_5M = 1 or SDC_5N = 1 or SDC_5O = 1 or SDC_5P = 1 or SDC_5Q = 1 or SDC_5R = 1 or SDC_5S = 1 or SDC_5T = 1 or SDC_5U = 1 or SDC_5V = 1 or SDC_5W = 1)	French and Other (not English)
7	(SDC_5A > 1 and SDC_5B > 1) and (SDC_5C = 1 or SDC_5D = 1 or SDC_5E = 1 or SDC_5F = 1 or SDC_5G = 1 or SDC_5H = 1 or SDC_5I = 1 or SDC_5J = 1 or SDC_5K = 1 or SDC_5L = 1 or SDC_5M = 1 or SDC_5N = 1 or SDC_5O = 1 or SDC_5P = 1 or SDC_5Q = 1 or SDC_5R = 1 or SDC_5S = 1 or SDC_5T = 1 or SDC_5U = 1 or SDC_5V = 1 or SDC_5W = 1)	Other (neither English nor French)

## 8) Length of time in Canada since immigration

**Variable name:** SDCDRES

**Based on:** SDC\_3, ADM\_YOI

**Description:** This variable indicates the length of time in years the respondent has been in Canada since his/her immigration.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Non-immigrants were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	SDC_3 = NA	Population exclusion	NA
999	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
ADM_YOI - SDC_3	SDC_3 < NA	Length of time in Canada since immigration (interview date - immigration date)	[min: 0; max: 130 (current age)]

## 9) Immigration flag

**Variable name:** SDCFIMM

**Based on:** SDC\_3

**Description:** This variable indicates if the respondent is an immigrant.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDC_3 < NA	Immigrant	
2	SDC_3 = NA	Not an immigrant	

## 10) Country of birth - grouped

**Variable name:** SDCGCB

**Based on:** SDCCCB

**Description:** This variable classifies the respondent based on his/her country of birth in specific groups.

**Introduced in:** CCHS - Cycle 1.1



Specifications			
Value	Condition(s)	Description	Notes
99	(SDCCCB = 000, 995, DK, R, NS, Missing)	Required question was not answered (don't know, refusal, not stated)	NS
1	(0 < SDCCCB < 14)	Canada	
2	(100 <= SDCCCB < 200) or SDCCCB = 206	Other North America	
3	(200 < SDCCCB < 206) or (206 < SDCCCB < 500)	South, Central America and Caribbean	
4	(500 <= SDCCCB < 600)	Europe	
5	(600 <= SDCCCB < 700)	Africa	
6	(700 <= SDCCCB < 800)	Asia	
7	(800 <= SDCCCB < 900)	Oceania	

## 11 ) Country of Birth - Grouped

**Variable name:** SDCGCBG

**Based on:** SDCCCB

**Description:** This variable classifies the respondent based on his/her country of birth.

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
9	(SDCCCB = 000, DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	(0 < SDCCCB < 14)	Canada	
2	(100 <= SDCCCB < 900)	Other	

## 12 ) Culture / Race Flag - Grouped

**Variable name:** SDCGCGT

**Based on:** SDCDCGT, SDC\_41

**Description:** This variable indicates the cultural or racial origin of the respondent.

**Introduced in:** CCHS - Cycle 3.1

Specifications			
Value	Condition(s)	Description	Notes
9	(SDC_41 = DK, R, NS) (SDCDCGT = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDCDCGT= 1	White	

2	SDCDCGT= 2 or SDCDCGT= 3 or SDCDCGT= 4 or SDCDCGT= 5 or SDCDCGT= 6 or SDCDCGT= 7 or SDCDCGT= 8 or SDCDCGT= 9 or SDCDCGT= 10 or SDCDCGT= 11 or SDCDCGT= 12 or SDCDCGT= 13 or SDC_41 = 1	Non-white (Aboriginal or Other Visible Minority)
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### 13) Language(s) spoken at home - (D, G) - Grouped

**Variable name:** SDCGLHM

**Based on:** SDC\_5AA, SDC\_5AB, SDC\_5AC, SDC\_5AD, SDC\_5AE, SDC\_5AF, SDC\_5AG, SDC\_5AH, SDC\_5AI, SDC\_5AJ, SDC\_5AK, SDC\_5AL, SDC\_5AM, SDC\_5AN, SDC\_5AO, SDC\_5AP, SDC\_5AQ, SDC\_5AR, SDC\_5AS, SDC\_5AT, SDC\_5AU, SDC\_5AV, SDC\_5AW

**Description:** This variable indicates the language(s) in which the respondent converses at home.

**Introduced in:** CCHS - 2007

#### Specifications

Value	Condition(s)	Description	Notes
99	(SDC_5AA = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	(SDC_5AA = 1 and SDC_5AB > 1)	English (with or without language other than French)	
2	(SDC_5AA > 1 and SDC_5AB = 1)	French (with or without language other than English)	
3	(SDC_5AA = 1 and SDC_5AB = 1)	English & French (with or without other language)	
4	(SDC_5AA > 1 and SDC_5AB > 1) and (SDC_5AC = 1 or SDC_5AD = 1 or SDC_5AE = 1 or SDC_5AF = 1 or SDC_5AG = 1 or SDC_5AH = 1 or SDC_5AI = 1 or SDC_5AJ = 1 or SDC_5AK = 1 or SDC_5AL = 1 or SDC_5AM = 1 or SDC_5AN = 1 or SDC_5AO = 1 or SDC_5AP = 1 or SDC_5AQ = 1 or SDC_5AR = 1 or SDC_5AS = 1 or SDC_5AT = 1 or SDC_5AU = 1 or SDC_5AV = 1 or SDC_5AW = 1)	Neither English nor French (Other)	

**14) Language(s) in which respondent can converse - Grouped****Variable name:** SDCGLNG**Based on:** SDC\_5A, SDC\_5B, SDC\_5C, SDC\_5D, SDC\_5E, SDC\_5F, SDC\_5G, SDC\_5H, SDC\_5I, SDC\_5J, SDC\_5K, SDC\_5L, SDC\_5M, SDC\_5N, SDC\_5O, SDC\_5P, SDC\_5Q, SDC\_5R, SDC\_5S, SDC\_5T, SDC\_5U, SDC\_5V, SDC\_5W**Description:** This variable indicates the language(s) in which the respondent can converse.**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_5A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	(SDC_5A = 1 and SDC_5B > 1)	English (with or without language other than French)	
2	(SDC_5A > 1 and SDC_5B = 1)	French (with or without language other than English)	
3	(SDC_5A = 1 and SDC_5B = 1)	English & French (with or without other language)	
4	(SDC_5A > 1 and SDC_5B > 1) and (SDC_5C = 1 or SDC_5D = 1 or SDC_5E = 1 or SDC_5F = 1 or SDC_5G = 1 or SDC_5H = 1 or SDC_5I = 1 or SDC_5J = 1 or SDC_5K = 1 or SDC_5L = 1 or SDC_5M = 1 or SDC_5N = 1 or SDC_5O = 1 or SDC_5P = 1 or SDC_5Q = 1 or SDC_5R = 1 or SDC_5S = 1 or SDC_5T = 1 or SDC_5U = 1 or SDC_5V = 1 or SDC_5W = 1)	Neither English nor French (Other)	

**15) Length of time in Canada since immigration - Grouped****Variable name:** SDCGRES**Based on:** SDC\_3, ADM\_YOI**Description:** This variable indicates the length of time the respondent's been in Canada since his/her immigration.**Introduced in:** CCHS - Cycle 1.1**Note:** Non immigrants were excluded from the population.  
ADM\_MOI = Month of Interview (unpublished)

Specifications			
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<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
996	SDC_3 = NA	Population exclusions	NA
999	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	ADM_YOI (current year) - SDC_3 (SDC_3 < NA)	Length of time in Canada since immigration 0 - 9 years are grouped together	(min: 0; max: 9)
2	ADM_YOI (current year) - SDC_3 (SDC_3 < NA)	Length of time in Canada since immigration 10 - 130 years are grouped together	(min: 10; max: 130)

## Self-esteem (1 DV)

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>SFET501</b> (5 - SFE_501)	SFE_501 <= 5	Invert and rescale the question answers from 1 - 5 to 4 - 0	
<b>SFET502</b> (5 - SFE_502)	SFE_502 <= 5	Invert and rescale the question answers from 1 - 5 to 4 - 0	
<b>SFET503</b> (5 - SFE_503)	SFE_503 <= 5	Invert and rescale the question answers from 1 - 5 to 4 - 0	
<b>SFET504</b> (5 - SFE_504)	SFE_504 <= 5	Invert and rescale the question answers from 1 - 5 to 4 - 0	
<b>SFET505</b> (5 - SFE_505)	SFE_505 <= 5	Invert and rescale the question answers from 1 - 5 to 4 - 0	
<b>SFET506</b> (SFE_506 - 1)	SFE_506 <= 5	Rescale the question answers	

### 1 ) Derived Self-Esteem Scale

**Variable name:** SFEDE1

**Based on:** SFE\_501, SFE\_502, SFE\_503, SFE\_504, SFE\_505, SFE\_506

**Description:** This variable assesses the level of self-esteem (positive feeling) an individual has.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Scores on the index are based on a subset of items from the self-esteem Rosenberg scale (1969). The six items have been factored into one dimension in the factor analysis done by Pearlin and Schooler (1978). Higher scores indicate greater self-esteem.

Specifications			
Value	Condition(s)	Description	Notes
96	SFEFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SFET501 = DK, R, NS) or (SFET502 = DK, R, NS) or (SFET503 = DK, R, NS) or (SFET504 = DK, R, NS) or (SFET505 = DK, R, NS) or (SFET506 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SFET501 + SFET502 + SFET503 + SFET504 + SFET505 + SFET506	(0 <= SFET501 <= 4) and (0 <= SFET502 <= 4) and (0 <= SFET503 <= 4) and (0 <= SFET504 <= 4) and (0 <= SFET505 <= 4) and (0 <= SFET506 <= 4)	Score obtained on the self-esteem scale	(min: 0; max: 24)

Reference: Rosenberg, Morris, Conceiving the self, appendix A, 1979, pp. 291-295.

## Health status (SF-36) (10 DVs)

The 36-item short form (SF-36) of the Medical Outcomes Study questionnaire was designed as a generic indicator of health status for use in population surveys and evaluative studies of health policy. The SF-36 was developed by John E. Ware Jr., Institute for the Improvement of Medical Care and Health, New England Medical Center Hospitals. The items in the SF-36 were drawn from the original 245-item Medical Outcomes Study (MOS). The SF-36 includes multi-item scales to measure the following three major health attributes and eight health concepts:

### Functional Status

- Physical Functioning
- Social Functioning
- Role Limitations attributed to Physical Problems
- Role Limitations attributed to Emotional Problems

### Well-Being

- Mental Health
- Energy (vitality)
- Bodily Pain

### Overall Evaluation of Health

- General Health Perception

A scale is calculated for each of the eight health concepts. All scales are scored so that a high score is consistent with a positive health status. For example, a "functioning" scale is scored so that a higher score reflects increased function.

In order to facilitate comparisons across the SF-36 scales, the raw scores for each scale are linearly transformed to a 0-to-100 scale using the formula:

$$\text{Transformed scale} = [(\text{Actual score} - \text{Lowest possible score}) / \text{Possible score range}] \times 100$$

The transformed score reflects a relative position of the respondent on a continuum of lowest to highest possible scale scores.

Two summary measures of physical and mental health are also constructed from the eight scales.

<b>Temporary Reformat</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
<b>SFRT01</b>			
1	GEN_01 = 5	Rescale responses required to create the eight health concept scales	
2.0	GEN_01 = 4	Rescale responses required to create the eight health concept scales	
3.4	GEN_01 = 3	Rescale responses required to create the eight health concept scales	
4.4	GEN_01 = 2	Rescale responses required to create the eight health concept scales	
5	GEN_01 = 1	Rescale responses required to create the eight health concept scales	
<b>SFRT20</b>			
(6 – SFR_20)	All	Rescale responses required to create the eight health concept scales	
<b>SFRT21</b>			
1	SFR_21 = 6	Rescale responses required to create the eight health concept scales	
2.2	SFR_21 = 5	Rescale responses required to create the eight health concept scales	
3.1	SFR_21 = 4	Rescale responses required to create the eight health concept scales	
4.2	SFR_21 = 3	Rescale responses required to create the eight health concept scales	
5.4	SFR_21 = 2	Rescale responses required to create the eight health concept scales	
6	SFR_21 = 1	Rescale responses required to create the eight health concept scales	
<b>SFRT22</b>			
1	SFR_22 = 5 and (1 <= SFR_21 <= 6)	Rescale responses required to create the eight health concept scales	
2	SFR_22 = 4 and (1 <= SFR_21 <= 6)	Rescale responses required to create the eight health concept scales	

3	SFR_22 = 3 and (1 <= SFR_21 <= 6)	Rescale responses required to create the eight health concept scales
4	SFR_22 = 2 and (1 <= SFR_21 <= 6)	Rescale responses required to create the eight health concept scales
5	SFR_22 = 1 and (2 <= SFR_21 <= 6)	Rescale responses required to create the eight health concept scales
6	SFR_22 = 1 and SFR_21 = 1	Rescale responses required to create the eight health concept scales
<b>SFRT23</b> (7 – SFR_23)	All	Rescale responses required to create the eight health concept scales
<b>SFRT26</b> (7 – SFR_26)	All	Rescale responses required to create the eight health concept scales
<b>SFRT27</b> (7 – SFR_27)	All	Rescale responses required to create the eight health concept scales
<b>SFRT30</b> (7 – SFR_30)	All	Rescale responses required to create the eight health concept scales
<b>SFRT34</b> (6 – SFR_34)	All	Rescale responses required to create the eight health concept scales
<b>SFRT36</b> (6 – SFR_36)	All	Rescale responses required to create the eight health concept scales

## 1 ) Bodily Pain Scale

**Variable name:** SFRDBPS

**Based on:** SFR\_21, SFR\_22

**Description:** This variable indicates a measure of bodily pain experienced by the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score is consistent with a decreased level of pain.

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFRT21 = DK, R, NS) or (SFRT22 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * ((SFRT21 + SFRT22) - 2) / 10$	(1 <= SFRT21 <= 6) and (1 <= SFRT22 <= 6)	Score obtained on the bodily pain scale	(min: 0; max: 100)

## 2 ) General Health Perceptions Scale

**Variable name:** SFRDGHP

**Based on:** SFR\_01, SFR\_33, SFR\_34, SFR\_35, SFR\_36

**Description:** This variable indicates the general health perceptions of the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score is consistent with a positive perception of one's general health status.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>SFRDBPST</b> (SFRDBPS - 75.49196) / 23.55879		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDGHPT</b> (SFRDGHP - 72.21316) / 20.16964		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDGMHT</b> (SFRDGMH - 74.84212) / 18.01189		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDMRFT</b> (SFRDMRF - 81.29467) / 33.02717		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDPFST</b> (SFRDPFS - 84.52404) / 22.89490		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDPRFT</b> (SFRDPRF - 81.19907) / 33.79729		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDSFST</b> (SFRDSFS - 83.59753) / 22.37642		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	
<b>SFRDVTST</b> (SFRDVTS - 61.05453) / 20.86942		Reformat the eight health concept scales to calculate two summary measures of physical and mental health	

Specifications			
Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFRT01 = DK, R, NS) or (SFR_33 = DK, R, NS) or (SFR_34 = DK, R, NS) or (SFR_35 = DK, R, NS) or (SFR_36 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
100*[(SFRT01 + SFR_33 + SFRT34 + SFR_35 + SFRT36) - 5] / 20	(1 <= SFRT01 <= 5) and (1 <= SFR_33 <= 5) and (1 <= SFRT34 <= 5) and (1 <= SFR_35 <= 5) and (1 <= SFRT36 <= 5)	Score obtained on the general health perception scale	(min: 0; max: 100)



### 3) General Mental Health Scale

**Variable name:** SFRDGMH

**Based on:** SFR\_24, SFR\_25, SFR\_26, SFR\_28, SFR\_30

**Description:** This variable indicates the general mental health of people in the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** The scale is transformed to facilitate comparisons across scales and reflect a relative position. A high score is consistent with a positive general mental health status.

#### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFR_24 = DK, R, NS) or (SFR_25 = DK, R, NS) or (SFR_26 = DK, R, NS) or (SFR_28 = DK, R, NS) or (SFR_30 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * [(SFR\_24 + SFR\_25 + SFRT26 + SFR\_28 + SFRT30) - 5] / 25$	(1 <= SFR_24 <= 6) and (1 <= SFR_25 <= 6) and (1 <= SFRT26 <= 6) and (1 <= SFR_28 <= 6) and (1 <= SFRT30 <= 6)	Score obtained on the general mental health scale	(min: 0; max: 100)

### 4) Summary Measure of Mental Health

**Variable name:** SFRDMCS

**Based on:** SFRDPFS, SFRDSFS, SFRDPRF, SFRDMRF, SFRDGMH, SFRDVTS, SFRDBPS, SFRDGHP

**Description:** This variable is a summary measure of mental health that is constructed from the eight health concept scales (physical functioning, social functioning, role limitation-physical, role limitation-mental, general mental health, vitality, bodily pain, general health perceptions).

**Introduced in:** CCHS - Cycle 2.1

#### Specifications

Value	Condition(s)	Description	Notes
96	SFRFOPT = 2	Module not selected	NA
99	SFRDPFS = NS or SFRDSFS = NS or SFRDPRF = NS or SFRDMRF = NS or SFRDGMH = NS or SFRDVTS = NS or SFRDBPS = NS or SFRDGHP = NS	At least one required question was not answered (don't know, refusal, not stated)	NS

(((SFRDPFST * -.22999) + (SFRDSFST * .26876) + (SFRDPRFT * - .12329) + (SFRDMRFT * .43407) + (SFRDGMHT * .48581) + (SFRDVTST * .23534) + (SFRDBPST * - .09731) + (SFRDGHPT * - .01571)) * 10] + 50	SFRDPFS <> NS and SFRDSFS <> NS and SFRDPRF <> NS and SFRDMRF <> NS and SFRDGMH <> NS and SFRDVTS <> NS and SFRDBPS <> NS and SFRDGHP <> NS	Summary measure of mental health	(min: 3; max: 74)
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## 5) Role Functioning (Mental) Scale

**Variable name:** SFRDMRF

**Based on:** SFR\_17, SFR\_18, SFR\_19

**Description:** This variable measures the mental role functioning of the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score is consistent with a positive mental health status.

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFR_17 = DK, R, NS) or (SFR_18 = DK, R, NS) or (SFR_19 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * [(SFR\_17 + SFR\_18 + SFR\_19) - 3] / 3$	(1 <= SFR_17 <= 2) and (1 <= SFR_18 <= 2) and (1 <= SFR_19 <= 2)	Score obtained on the role functioning (mental) scale (min: 0; max: 100)	

## 6) Summary Measure of Physical Health

**Variable name:** SFRDPCS

**Based on:** SFRDPFS, SFRDSFS, SFRDPRF, SFRDMRF, SFRDGMH, SFRDVTS, SFRDBPS, SFRDGHP

**Description:** This variable is a summary measure of physical health that is constructed from the eight health concept scales (physical functioning, social functioning, role limitation-physical, role limitation-mental, general mental health, vitality, bodily pain, general health perceptions).

**Introduced in:** CCHS - Cycle 2.1

### Specifications

Value	Condition(s)	Description	Notes
96	SFRFOPT = 2	Module not selected	NA

99	SFRDPFS = NS or SFRDSFS = NS or SFRDPRF = NS or SFRDMRF = NS or SFRDGMH = NS or SFRDVTS = NS or SFRDBPS = NS or SFRDGHP = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
(((SFRDPFST * .42402) + (SFRDSFST * - .00753) + (SFRDPRFT * .35119) + (SFRDMRFT * - .19206) + (SFRDGMHT * -.22069) + (SFRDVTST * .02877) + (SFRDBPST * .31754) + (SFRDGHPT * .24954)) * 10] + 50	SFRDPFS <> NS and SFRDSFS <> NS and SFRDPRF <> NS and SFRDMRF <> NS and SFRDGMH <> NS and SFRDVTS <> NS and SFRDBPS <> NS and SFRDGHP <> NS	Summary measure of physical health	(min: 8; max 68)

## 7) Physical Functioning Scale

**Variable name:** SFRDPFS

**Based on:** SFR\_03, SFR\_04, SFR\_05, SFR\_06, SFR\_07, SFR\_08, SFR\_09, SFR\_10, SFR\_11, SFR\_12

**Description:** This variable measures the level of physical functioning of the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score reflects increased physical function.

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFR_03 = DK, R, NS) or (SFR_04 = DK, R, NS) or (SFR_05 = DK, R, NS) or (SFR_06 = DK, R, NS) or (SFR_07 = DK, R, NS) or (SFR_08 = DK, R, NS) or (SFR_09 = DK, R, NS) or (SFR_10 = DK, R, NS) or (SFR_11 = DK, R, NS) or (SFR_12 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

$100 * [(SFR\_03 + SFR\_04 + SFR\_05 + SFR\_06 + SFR\_07 + SFR\_08 + SFR\_09 + SFR\_10 + SFR\_11 + SFR\_12) - 10] / 20$	(1 <= SFR_03 <= 3) and (1 <= SFR_04 <= 3) and (1 <= SFR_05 <= 3) and (1 <= SFR_06 <= 3) and (1 <= SFR_07 <= 3) and (1 <= SFR_08 <= 3) and (1 <= SFR_09 <= 3) and (1 <= SFR_10 <= 3) and (1 <= SFR_11 <= 3) and (1 <= SFR_12 <= 3)	Score obtained on the physical functioning scale (min: 0; max: 100)
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## 8) Role Functioning (Physical) Scale

**Variable name:** SFRDPRF

**Based on:** SFR\_13, SFR\_14, SFR\_15, SFR\_16

**Description:** This variable measures the role limitations due to physical health problems for the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score reflects increased physical function (ie., less limitation).

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFR_13 = DK, R, NS) or (SFR_14 = DK, R, NS) or (SFR_15 = DK, R, NS) or (SFR_16 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * [(SFR\_13 + SFR\_14 + SFR\_15 + SFR\_16) - 4] / 4$	(1 <= SFR_13 <= 2) and (1 <= SFR_14 <= 2) and (1 <= SFR_15 <= 2) and (1 <= SFR_16 <= 2)	Score obtained on the role functioning (physical) scale	(min: 0; max: 100)

## 9) Social Functioning Scale

**Variable name:** SFRDSFS

**Based on:** SFR\_20, SFR\_32

**Description:** This variable measures the level of social functioning of the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score reflects increased social functioning.

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA

999	(SFR_20 = DK, R, NS) or (SFR_32 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * [(SFRT20 + SFR_32) - 2] / 9$	(1 <= SFRT20 <= 5) and (1 <= SFR_32 <= 6)	Score obtained on the social functioning scale	(min: 0; max: 100)

## 10) Vitality Scale

**Variable name:** SFRDVTS

**Based on:** SFR\_23, SFR\_27, SFR\_29, SFR\_31

**Description:** This variable indicates a measure of energy (vitality) of the respondent relative to the general population.

**Introduced in:** CCHS - Cycle 2.1

**Note:** A high score is consistent with a positive level of energy.

### Specifications

Value	Condition(s)	Description	Notes
996	SFRFOPT = 2	Module not selected	NA
999	(SFR_23 = DK, R, NS) or (SFR_27 = DK, R, NS) or (SFR_29 = DK, R, NS) or (SFR_31 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$100 * [(SFRT23 + SFRT27 + SFR_29 + SFR_31) - 4] / 20$	(1 <= SFRT23 <= 6) and (1 <= SFRT27 <= 6) and (1 <= SFR_29 <= 6) and (1 <= SFR_31 <= 6)	Score obtained on the vitality scale	(min: 0; max: 100)

## Smoking (10 DVs)

### 1 ) Number of Years Since Stopped Smoking Completely

**Variable name:** SMKDSTP

**Based on:** SMK\_06A, SMK\_06C, SMK\_09A, SMK\_09C, SMK\_10, SMK\_10A, SMK\_10C, SMKDSTY

**Description:** This variable indicates the approximate number of years since former smokers completely quit smoking.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Current smokers and respondents who have never smoked a whole cigarette and respondents who have not smoked a total of 100 cigarettes or more in their lifetime were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	(SMKDSTY = 1, 2, 3, 6) or (SMK_202 = 3 and SMK_01A = 2 and SMK_01B = 1)	Population exclusions	NA
999	SMKDSTY = NS or (SMK_10 = DK, R, NS) or (SMK_06A = DK, R, NS) or (SMK_06C = DK, R, NS) or (SMK_09A = DK, R, NS) or (SMK_09C = DK, R, NS) or (SMK_10A = DK, R, NS) or (SMK_10C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	SMK_06A = 1 or (SMK_10 = 1 and SMK_09A = 1) or SMK_10A = 1	Number of years since completely quit smoking	(less than 1 year)
1	SMK_06A = 2 or (SMK_10 = 1 and SMK_09A = 2) or SMK_10A = 2	Number of years since completely quit smoking	(1 year to < 2 years)
2	SMK_06A = 3 or (SMK_10 = 1 and SMK_09A = 3) or SMK_10A = 3	Number of years since completely quit smoking	(2 years to < 3 years)
SMK_06C	SMK_06A = 4	Number of years since completely quit smoking	(min: 3; max: 125)
SMK_09C	SMK_09A = 4 and SMK_10 = 1	Number of years since completely quit smoking	(min: 3; max: 125)
SMK_10C	SMK_10A = 4	Number of years since completely quit smoking	(min: 3; max: 125)

### 2 ) Type of Smoker

**Variable name:** SMKDSTY

**Based on:** SMK\_01A, SMK\_01B, SMK\_202, SMK\_05D

**Description:** This variable indicates the type of smoker the respondent is, based on his/her smoking habits.

**Introduced in:** CCHS - Cycle 1.1

**Note:** This variable includes lifetime cigarette consumption.

Specifications			
Value	Condition(s)	Description	Notes
1	SMK_202 = 1	Daily smoker	
2	SMK_202 = 2 and SMK_05D = 1	Occasional smoker (former daily smoker)	
3	SMK_202 = 2 and (SMK_05D = 2, NA)	Occasional smoker (never a daily smoker or has smoked less than 100 cigarettes lifetime)	
4	SMK_202 = 3 and SMK_05D = 1	Former daily smoker (non-smoker now)	
5	SMK_202 = 3 and [SMK_05D = 2 and SMK_01A = 1 or SMK_01B = 1]	Former occasional smoker (at least 1 whole cigarette, non-smoker now)	
6	SMK_202 = 3 and SMK_01A = 2 and SMK_01B = 2	Never smoked (a whole cigarette)	
99	(SMK_01A = DK, R, NS) or (SMK_01B = DK, R, NS) or (SMK_202 = DK, R, NS) or (SMK_05D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 3) Number of Years Smoked Daily (Current Daily Smokers Only)

**Variable name:** SMKDYCS

**Based on:** SMK\_202, SMK\_203, DHH\_AGE

**Description:** This variable indicates the number of years the respondent has smoked daily.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents who are not daily smokers have been excluded from the population. The NPHS variables includes non-smokers and occasional smokers who previously smoked daily.

Specifications			
Value	Condition(s)	Description	Notes
996	(SMK_202 = 2, 3)	Population exclusion	NA
999	(SMK_202 = DK, R, NS) or (SMK_203 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
DHH_AGE - SMK_203	SMK_202 = 1	Number of years smoked daily	(min: 0; max: 125)

### 4) Age - smoked first whole cigarette - (G)

**Variable name:** SMKG01C

**Based on:****Description:** This variable groups the age at which the respondent smoked their first whole cigarette.**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	SMK_01C = 96	Not Applicable	
99	SMK_01C = 99	Not Stated	
1	5=<SMK_01C=<11	Respondent smoked their first whole cigarette between ages 5 and 11.	
2	12=<SMK_01C=<14	Respondent smoked their first whole cigarette between ages 12 and 14.	
3	15=<SMK_01C=<17	Respondent smoked their first whole cigarette between ages 15 and 17.	
4	18=<SMK_01C=<19	Respondent smoked their first whole cigarette between ages 18 and 19.	
5	20=<SMK_01C=<24	Respondent smoked their first whole cigarette between ages 20 and 24.	
6	25=<SMK_01C=<29	Respondent smoked their first whole cigarette between ages 25 and 29.	
7	30=<SMK_01C=<34	Respondent smoked their first whole cigarette between ages 30 and 34.	
8	35=<SMK_01C=<39	Respondent smoked their first whole cigarette between ages 35 and 39.	
9	40=<SMK_01C=<44	Respondent smoked their first whole cigarette between ages 40 and 44.	
10	45=<SMK_01C=<49	Respondent smoked their first whole cigarette between ages 45 and 49.	
11	50=<SMK_01C	Respondent smoked their first whole cigarette at age 50 or older.	

**5) Number of years since stopped smoking - (G)****Variable name:** SMKG06C**Based on:** SMK\_06C**Description:** This variable groups the number of years since the respondent stopped smoking.**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
6	SMK_06C = 996	Not Applicable	
7	SMK_06C = 997	Don't Know	
8	SMK_06C = 998	Refusal	
9	SMK_06C = 999	Not stated	



1	3=<SMK_06C=<5	Respondent stopped smoking between 3 and 5 years ago.
2	6=<SMK_06C=<10	Respondent stopped smoking between 6 and 10 years ago.
3	11=<SMK_06C	Respondent stopped smoking 11 or more years ago.

## 6) Number of years since stopped smoking (former daily smoker) - (G)

**Variable name:** SMKG09C

**Based on:** SMK\_09C

**Description:** This variable groups the number of years since the respondent stopped smoking (former daily smoker).

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	SMK_09C = 996	Not Applicable	
7	SMK_09C = 997	Don't Know	
8	SMK_09C = 998	Refusal	
9	SMK_09C = 999	Not stated	
1	3=<SMK_09C=<5	Respondent stopped smoking between 3 and 5 years ago.	
2	6=<SMK_09C=<10	Respondent stopped smoking between 6 and 10 years ago.	
3	11=<SMK_09C	Respondent stopped smoking 11 or more years ago.	

## 7) Number of years since stopped smoking (daily) - (G)

**Variable name:** SMKG10C

**Based on:** SMK\_10C

**Description:** This variable groups the number of years since the respondent stopped smoking (daily).

**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	SMK_10C = 996	Not Applicable	
7	SMK_10C = 997	Don't Know	
8	SMK_10C = 998	Refusal	
9	SMK_10C = 999	Not stated	
1	3=<SMK_10C=<5	Respondent stopped smoking daily between 3 and 5 years ago.	

2	6=<SMK_10C=<10	Respondent stopped smoking daily between 6 and 10 years ago.
3	11=<SMK_10C	Respondent stopped smoking daily 11 or more years ago.

## 8) Age - started smoking daily (daily smoker) - (G)

**Variable name:** SMKG203  
**Based on:** SMK\_203  
**Description:** This variable groups the age at which the respondent started smoking daily.  
**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	SMK_203 = 96	Not Applicable	
99	SMK_203 = 99	Not Stated	
1	5=<SMK_203=<11	Respondent smoked their first whole cigarette between ages 5 and 11.	
2	12=<SMK_203=<14	Respondent smoked their first whole cigarette between ages 12 and 14.	
3	15=<SMK_203=<17	Respondent smoked their first whole cigarette between ages 15 and 17.	
4	18=<SMK_203=<19	Respondent smoked their first whole cigarette between ages 18 and 19.	
5	20=<SMK_203=<24	Respondent smoked their first whole cigarette between ages 20 and 24.	
6	25=<SMK_203=<29	Respondent smoked their first whole cigarette between ages 25 and 29.	
7	30=<SMK_203=<34	Respondent smoked their first whole cigarette between ages 30 and 34.	
8	35=<SMK_203=<39	Respondent smoked their first whole cigarette between ages 35 and 39.	
9	40=<SMK_203=<44	Respondent smoked their first whole cigarette between ages 40 and 44.	
10	45=<SMK_203=<49	Respondent smoked their first whole cigarette between ages 45 and 49.	
11	50=<SMK_203	Respondent smoked their first whole cigarette at age 50 or older.	

## 9) Age - started smoking daily (former daily smoker) - (G)

**Variable name:** SMKG207  
**Based on:** SMK\_207  
**Description:** This variable groups the age at which the respondent started smoking daily (former daily smoker).

**Introduced in:** CCHS - Cycle 1.1

Specifications			
Value	Condition(s)	Description	Notes
96	SMK_207 = 96	Not Applicable	
99	SMK_207 = 99	Not Stated	
1	5=<SMK_207=<11	Respondent started smoking daily between ages 5 and 11.	
2	12=<SMK_207=<14	Respondent started smoking daily between ages 12 and 14.	
3	15=<SMK_207=<17	Respondent started smoking daily between ages 15 and 17.	
4	18=<SMK_207=<19	Respondent started smoking daily between ages 18 and 19.	
5	20=<SMK_207=<24	Respondent started smoking daily between ages 20 and 24.	
6	25=<SMK_207=<29	Respondent started smoking daily between ages 25 and 29.	
7	30=<SMK_207=<34	Respondent started smoking daily between ages 30 and 34.	
8	35=<SMK_207=<39	Respondent started smoking daily between ages 35 and 39.	
9	40=<SMK_207=<44	Respondent started smoking daily between ages 40 and 44.	
10	45=<SMK_207=<49	Respondent started smoking daily between ages 45 and 49.	
11	50=<SMK_207	Respondent started smoking daily at age 50 or older.	

## 10) Number of Years Since Stopping Smoking Completely - Grouped

**Variable name:** SMKGSTP

**Based on:** SMK\_06A, SMK\_06C, SMK\_09A, SMK\_09C, SMK\_10, SMK\_10A, SMK\_10C, SMKDSTY

**Description:** This variable indicates the approximate number of years since former smokers completely quit smoking.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Current smokers and respondents who have never smoked a whole cigarette and respondents who did not smoked a total of 100 cigarettes or more lifetime were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	(SMKDSTY = 1, 2, 3, 6) or (SMK_202 = 3 and SMK_01A = 2 and SMK_01B = 1)	Population exclusions	NA

9	SMKDSTY = NS or (SMK_10 = DK, R, NS) or (SMK_06A = DK, R, NS) or (SMK_06C = DK, R, NS) or (SMK_09A = DK, R, NS) or (SMK_09C = DK, R, NS) or (SMK_10A = DK, R, NS) or (SMK_10C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	SMK_06A = 1 or (SMK_10 = 1 and SMK_09A = 1) or SMK_10A = 1	Number of years since completely quit smoking	(less than 1 year)
2	[SMK_06A = 2 or (SMK_10 = 1 and SMK_09A = 2) or SMK_10A = 2] or [SMK_06A = 3 or (SMK_10 = 1 and SMK_09A = 3) or SMK_10A = 3]	Number of years since completely quit smoking	(1 year to < 3 years)
3	[SMK_06A = 4 and (3 =< SMK_06C < 6)] or [SMK_09A = 4 and SMK_10 = 1 and (3 =< SMK_09C < 6)] or [SMK_10A = 4 and (3 =< SMK_10C < 6)]	Number of years since completely quit smoking	(min: 3; max: 5)
4	[SMK_06A = 4 and (6 =< SMK_06C < 11)] or [SMK_09A = 4 and SMK_10 = 1 and (6 =< SMK_09C < 11)] or [SMK_10A = 4 and (6 =< SMK_10C < 11)]	Number of years since completely quit smoking	(min: 6; max: 10)
5	[SMK_06A = 4 and (11 =< SMK_06C < 126)] or [SMK_09A = 4 and SMK_10 = 1 and (11 =< SMK_09C < 126)] or [SMK_10A = 4 and (11 =< SMK_10C < 126)]	Number of years since completely quit smoking	(min: 11; max: 125)

## Spirituality (1 DV)

### 1 ) Respondent's religion - (G)

**Variable name:** SPVG5  
**Based on:** SPV\_5  
**Description:** This variable groups the values for respondent's religion.  
**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	SPV_05 = 96	Not stated	
7	SPV_05 = 97	Don't Know	
8	SPV_05 = 98	Refusal	
9	SPV_05 = 99	Not Applicable	
1	SPV_05 = 2	Roman Catholic	
2	SPV_5 = 3, 4, 5, 6, 7, 8, 9, 10, or 16	Christian - Other	
3	SPV_5 = 1, 11, 12, 13, 14, 15, or 17	Other	

## Social support - Availability (4 DVs)

The Medical Outcomes Study (MOS) Social Support Survey provides indicators of four categories of Social Support. An initial pool of 50 items was reduced to 19 functional support items that were hypothesized to cover five dimensions:

- Emotional support - the expression of positive affect, empathetic understanding, and the encouragement of expressions of feelings.
- Informational support - the offering of advice, information, guidance or feedback.
- Tangible support - the provision of material aid or behavioural assistance.
- Positive social interaction - the availability of other persons to do fun things with you.
- Affection - involving expressions of love and affection.

Empirical analysis indicated that emotional and informational support items should be scored together, so 4 subscales are derived:

- Tangible social support (questions 2, 5, 12, 15)
- Affection (questions 6, 10, 20)
- Positive social interaction (questions 7, 11, 14, 18)
- Emotional or informational support (question 3, 4, 8, 9, 13, 16, 17, 19)

<b>Temporary Reformat</b>			
<b>Value</b>	<b>Condition(s)</b>	<b>Description</b>	<b>Notes</b>
<b>SSAT02</b> (SSA_02 - 1)	SSA_02 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT03</b> (SSA_03 - 1)	SSA_03 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT04</b> (SSA_04 - 1)	SSA_04 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT05</b> (SSA_05 - 1)	SSA_05 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT06</b> (SSA_06 - 1)	SSA_06 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT07</b> (SSA_07 - 1)	SSA_07 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT08</b> (SSA_08 - 1)	SSA_08 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT09</b> (SSA_09 - 1)	SSA_09 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT10</b> (SSA_10 - 1)	SSA_10 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT11</b> (SSA_11 - 1)	SSA_11 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT12</b> (SSA_12 - 1)	SSA_12 <= 5	Rescale the answers from 1 to 5 to 0 to 4  Where 0 is "never" and 4 is "always"	
<b>SSAT13</b>			

(SSA_13 - 1)	SSA_13 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT14</b>		
(SSA_14 - 1)	SSA_14 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT15</b>		
(SSA_15 - 1)	SSA_15 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT16</b>		
(SSA_16 - 1)	SSA_16 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT17</b>		
(SSA_17 - 1)	SSA_17 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT18</b>		
(SSA_18 - 1)	SSA_18 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT19</b>		
(SSA_19 - 1)	SSA_19 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"
<b>SSAT20</b>		
(SSA_20 - 1)	SSA_20 <= 5	Rescale the answers from 1 to 5 to 0 to 4 Where 0 is "never" and 4 is "always"

## 1) Affection - MOS Subscale

**Variable name:** SSADAFF

**Based on:** SSA\_06, SSA\_10, SSA\_20

**Description:** This variable measures the level of affection the respondent received. Questions about whether or not the respondent has someone that shows him/her love, someone to hug or someone to love and someone to make him/her feel wanted are included.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Higher scores indicate higher level of affection support.

Specifications			
Value	Condition(s)	Description	Notes
96	SSAFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT06 = DK, R, NS) or (SSAT10 = DK, R, NS) or (SSAT20 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SSAT06 + SSAT10 + SSAT20	(0 <= SSAT06 <= 4) and (0 <= SSAT10 <= 4) and (0 <= SSAT20 <= 4)	Score obtained on the affection support subscale	(min: 0; max: 12)

Reference: Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

## 2) Emotional or Informational Support - MOS Subscale

**Variable name:** SSADEMO

**Based on:** SSA\_03, SSA\_04, SSA\_08, SSA\_09, SSA\_13, SSA\_16, SSA\_17, SSA\_19

**Description:** This variable measures the level of emotional or informational support received by the respondent. Questions about whether the respondent has someone to listen and to advise in a crisis, someone to give information and confide in and talk to, or someone to understand problems are included.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Higher values indicate more emotional or informational support.

Specifications			
Value	Condition(s)	Description	Notes
96	SSAFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT03 = DK, R, NS) or (SSAT04 = DK, R, NS) or (SSAT08 = DK, R, NS) or (SSAT09 = DK, R, NS) or (SSAT13 = DK, R, NS) or (SSAT16 = DK, R, NS) or (SSAT17 = DK, R, NS) or (SSAT19 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SSAT03 + SSAT04 + SSAT08 + SSAT09 + SSAT13 + SSAT16 + SSAT17 + SSAT19	(0 <= SSAT03 <= 4) and (0 <= SSAT04 <= 4) and (0 <= SSAT08 <= 4) and (0 <= SSAT09 <= 4) and (0 <= SSAT13 <= 4) and (0 <= SSAT16 <= 4) and (0 <= SSAT17 <= 4) and (0 <= SSAT19 <= 4)	Score obtained on the emotional / informal support subscale	(min: 0; max: 32)

Reference: Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

## 3) Positive Social Interaction - MOS Subscale

**Variable name:** SSADSOC

**Based on:** SSA\_07, SSA\_11, SSA\_14, SSA\_18

**Description:** This variable measures the level of positive social interaction the respondent is involved in. Questions about whether the respondent has someone to have a good time with, get together with for relaxation, do things with to get his/her mind off things, or someone to do something enjoyable with are included.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Higher scores indicate higher level of positive social interaction.

Specifications			
Value	Condition(s)	Description	Notes
96	SSAFOPT = 2	Module not selected	NA



99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT07 = DK, R, NS) or (SSAT11 = DK, R, NS) or (SSAT14 = DK, R, NS) or (SSAT18 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SSAT07 + SSAT11 + SSAT14 + SSAT18	(0 <= SSAT07 <= 4) and (0 <= SSAT11 <= 4) and (0 <= SSAT14 <= 4) and (0 <= SSAT18 <= 4)	Score obtained on the positive social interaction subscale	(min: 0; max: 16)

Reference: Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

#### 4) Tangible Social Support - MOS Subscale

**Variable name:** SSADTNG

**Based on:** SSA\_02, SSA\_05, SSA\_12, SSA\_15

**Description:** This variable measures the level of tangible support that is available to the respondent. Questions about whether or not the respondent had someone to help if confined to bed, someone to take him/her to the doctor, someone to prepare meals or someone to do daily chores are included.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Higher scores indicate higher levels of tangible support.

Specifications			
Value	Condition(s)	Description	Notes
96	SSAFOPT = 2	Module not selected	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT02 = DK, R, NS) or (SSAT05 = DK, R, NS) or (SSAT12 = DK, R, NS) or (SSAT15 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
SSAT02 + SSAT05 + SSAT12 + SSAT15	(0 <= SSAT02 <= 4) and (0 <= SSAT05 <= 4) and (0 <= SSAT12 <= 4) and (0 <= SSAT15 <= 4)	Score obtained on the tangible support subscale	(min: 0; max: 16)

Reference: Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

**Note finale :** Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

## Use of protective equipment (3 DVs)

### 1 ) Wears Protective Equipment when In-Line Skating

**Variable name:** UPEFILS

**Based on:** UPE\_02A, UPE\_02B, UPE\_02C, PAC\_11

**Description:** This variable indicates whether the respondent wears a helmet, wrist guards or elbow pads always or most of the time when in-line skating.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents that do not in-line skate were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	UPEFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
6	PAC_11 = 2	Population exclusions	NA
1	(UPE_02A = 1, 2) and (UPE_02B = 1, 2) and (UPE_02C = 1, 2)	Wears a helmet, wrist guards and elbow pads always or most of the time	
2	(UPE_02A = 3, 4) or (UPE_02B = 3, 4) or (UPE_02C = 3, 4)	Does not wear a helmet, wrist guards or elbow pads always or most of the time	
9	(UPE_02A = DK, R, NS) or (UPE_02B = DK, R, NS) or (UPE_02C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2 ) Wears Protective Equipment when Skateboarding

**Variable name:** UPEFSKB

**Based on:** UPE\_06A, UPE\_06B, UPE\_06C

**Description:** This variable indicates whether respondents aged 12 to 19 years old wear a helmet, wrist guards or elbow pads always or most of the time when skateboarding.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents more than 19 years old and respondents that have not skateboarded in the past 12 months were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	UPEFOPT = 2	Module not selected	NA
9	ADM_PRX = 1 and 12 <= DHH_AGE <= 19	Module not asked - proxy interview	NS
6	DHH_AGE > 19 or UPE_06 = 2	Population exclusions	NA

1	(UPE_06A = 1, 2) and (UPE_06B = 1, 2) and (UPE_06C = 1, 2)	Wears a helmet, wrist guards and elbow pads always or most of the time	
2	(UPE_06A = 3, 4) or (UPE_06B = 3, 4) or (UPE_06C = 3, 4)	Does not wear a helmet, wrist guards or elbow pads always or most of the time	
9	(UPE_06A = DK, R, NS) or (UPE_06B = DK, R, NS) or (UPE_06C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 3) Wears Protective Equipment when Snowboarding

**Variable name:** UPEFSNB

**Based on:** UPE\_05A, UPE\_05B

**Description:** This variable indicates whether the respondent wears a helmet or wrist guards always or most of the time when snowboarding.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents that have not snowboarded in past 12 months were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	UPEFOPT = 2	Module not selected	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
6	(UPE_03A = 1) or (UPE_03B = 1, 4)	Population exclusions	NA
1	(UPE_05A = 1, 2) and (UPE_05B = 1, 2)	Wears a helmet and wrist guards always or most of the time	
2	(UPE_05A = 3, 4) or (UPE_05B = 3, 4)	Does not wear a helmet or wrist guards always or most of the time	
9	(UPE_05A = DK, R, NS) or (UPE_05B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Stress - Work stress (7 DVs)

The work stress items are sub-divided into six dimensions. As is the case for the overall index, answers to the items indicate the respondent's perceptions about various dimensions of his/her work. The name of each subscale reflects the dimension which is measured. Respondents between the age of 15 and 75 who worked at a job or business at anytime in the past 12 months were asked to evaluate their main job in the past 12 months. The 12-item index, based on a larger pool of items from Karasek and Theorell (1990), reflects a respondent's perceptions of various dimensions of his/her work including job security, social support, monotony, physical effort required, and extent of participation in decision-making. Higher scores indicate greater work stress.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>WSTT401</b> (WST_401 - 1)	WST_401 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT402</b> (WST_402 - 1)	WST_402 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT403</b> (WST_403 - 1)	WST_403 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT404</b> (WST_404 - 1)	WST_404 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
(4 - WSTT404)	WSTT404 <= 4	Invert scale of rescaled questions	
<b>WSTT405</b> (WST_405 - 1)	WST_405 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
(4 - WSTT405)	WSTT405 <= 4	Invert scale of rescaled questions	
<b>WSTT406</b> (WST_406 - 1)	WST_406 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT407</b> (WST_407 - 1)	WST_407 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT408</b> (WST_408 - 1)	WST_408 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
(4 - WSTT408)	WSTT408 <= 4	Invert scale of rescaled questions	
<b>WSTT409</b> (WST_409 - 1)	WST_409 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT410</b> (WST_410 - 1)	WST_410 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
(4 - WSTT410)	WSTT410 <= 4	Invert scale of rescaled questions	
<b>WSTT411</b> (WST_411 - 1)	WST_411 <= 5	Rescale question answers from 1 - 5 to 0 - 4	
<b>WSTT412</b> (WST_412 - 1)	WST_412 <= 5	Rescale question answers from 1 - 5 to 0 - 4	

### 1 ) Derived Work Stress Scale - Decision Latitude: Decision Authority

<b>Variable name:</b>	WSTDAUT
<b>Based on:</b>	WSTT401, WSTT403, WSTT409
<b>Description:</b>	This variable indicates whether the respondent's main job in the past 12 months allows them freedom in how to do their job and if they have a lot of say in what happens with regard to their job.
<b>Introduced in:</b>	CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population.  
Higher scores indicate greater work stress.

Specifications			
Value	Condition(s)	Description	Notes
96	WSTFOPT = 2	Module not selected	NA
96	WSTT401 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(WSTT403 = DK, R, NS) or (WSTT409 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
WSTT403 + WSTT409	(0 <= WSTT403 <= 4) and (0 <= WSTT409 <= 4)	Score obtained on the decision authority scale	(min: 0; max: 8)

## 2) Derived Work Stress Scale - Job Insecurity

**Variable name:** WSTDJIN

**Based on:** WSTT401, WSTT407

**Description:** This variable indicates whether the respondent feels that they have good job security in their main job.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population.  
Higher scores indicate greater work stress.

Specifications			
Value	Condition(s)	Description	Notes
6	WSTFOPT = 2	Module not selected	NA
6	WSTT401 = NA	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(WSTT407 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
WSTT407	(0 <= WSTT407 <= 4)	Score obtained on the job insecurity scale	(min: 0 ; max: 4)

## 3) Derived Work Stress Scale - Job Strain

**Variable name:** WSTDJST

**Based on:** WSTT401, WSTT402, WSTT403, WSTT404, WSTT405, WSTT406, WSTT409

**Description:** This variable indicates whether the respondent experiences job strain. Job strain is measured as a ratio of psychological demands and decision latitude which includes skill discretion and decision authority.

**Introduced in:** CCHS - Cycle 2.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population.

Higher scores indicate greater work stress.

In cycles 2.1 and 3.1 certain variables from the denominator of the WSTDJST derived variable were incorrectly specified in the Derived Variable (DV) Specifications. As a result, the data for this variable were erroneous for these cycles.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>WSTTa401</b>			
4 - WSTT401	WSTT401 <= 4	Invert scale of rescaled questions	
<b>WSTTa402</b>			
4 - WSTT402	WSTT402 <= 4	Invert scale of rescaled questions	
<b>WSTTa403</b>			
4 - WSTT403	WSTT403 <= 4	Invert scale of rescaled questions	
<b>WSTTa409</b>			
4 - WSTT409	WSTT409 <= 4	Invert scale of rescaled questions	

Specifications			
Value	Condition(s)	Description	Notes
9.96	WSTFOPT = 2	Module not selected	NA
9.96	WSTT401 = NA	Population exclusions	NA
9.99	ADM_PRX = 1	Module not asked - proxy interview	NS
9.99	(WSTTa401 = DK, R, NS) or (WSTTa402 = DK, R, NS) or (WSTTa403 = DK, R, NS) or (WSTT404 = DK, R, NS) or (WSTT405 = DK, R, NS) or (WSTT406 = DK, R, NS) or (WSTTa409 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
$\{[(WSTT405 + 1) + (WSTT406 + 1)] / 2\} / \{[(WSTTa401 + 1) + (WSTTa402 + 1) + (WSTT404 + 1) + (WSTTa403 + 1) + (WSTTa409 + 1)] / 5\}$	(WSTTa401 <= 4) and (WSTTa402 <= 4) and (WSTTa403 <= 4) and (WSTT404 <= 4) and (WSTT405 <= 4) and (WSTT406 <= 4) and (WSTTa409 <= 4)	Score obtained on the job stress scale	(min: 0.20; max: 5.00)

#### 4) Derived Work Stress Scale - Physical Exertion

**Variable name:** WSTDPHY

**Based on:** WSTT401, WSTT408

**Description:** This variable indicates whether the main job in the past 12 months requires a lot of physical effort.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population.  
Higher scores indicate greater work stress.

Specifications			
Value	Condition(s)	Description	Notes
6	WSTFOPT = 2	Module not selected	NA
6	WSTT401 = NA	Population exclusions	NA
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(WSTT408 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
WSTT408	(0 <= WSTT408 <= 4)	Score obtained on the physical exertion scale	(min: 0; max: 4)

## 5) Derived Work Stress Scale - Psychological Demands

**Variable name:** WSTDPSY

**Based on:** WSTT401, WSTT405, WSTT406

**Description:** This variable indicates whether the respondent is free from conflicting demands that others make and if their main job in the past 12 months is very hectic.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population. Higher scores indicate greater work stress.

Specifications			
Value	Condition(s)	Description	Notes
96	WSTFOPT = 2	Module not selected	NA
96	WSTT401 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(WSTT405 = DK, R, NS) or (WSTT406 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
WSTT405 + WSTT406	(0 <= WSTT405 <= 4) and (0 <= WSTT406 <= 4)	Score obtained on the psychological demand scale	(min: 0 ; max: 8)

## 6) Derived Work Stress Scale - Decision Latitude: Skill Discretion

**Variable name:** WSTDSKI

**Based on:** WSTT401, WSTT402, WSTT404

**Description:** This variable indicates the respondent's task variety at main work in the past 12 months. Questions are asked about whether the respondent was required to keep learning new things, whether his/her job required a high level of skill and whether the job required that the respondent do things over and over.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population. Higher scores indicate greater work stress.

Specifications			
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Value	Condition(s)	Description	Notes
96	WSTFOPT = 2	Module not selected	NA
96	WSTT401 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(WSTT401 = DK, R, NS) or (WSTT402 = DK, R, NS) or (WSTT404 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
WSTT401 + WSTT402 + WSTT404	(0 <= WSTT401 <= 4) and (0 <= WSTT402 <= 4) and (0 <= WSTT404 <= 4)	Score obtained on the skill discretion scale	(min: 0; max: 12)

## 7) Derived Work Stress Scale - Social Support

**Variable name:** WSTDSOC

**Based on:** WSTT401, WSTT410, WSTT411, WSTT412

**Description:** This variable indicates the social support available to the respondent at his/her main job in the past 12 months. Questions are asked about whether or not the supervisor and the people the respondent worked with were helpful in getting the job done, and whether the respondent was exposed to hostility or conflict from the people they worked with.

**Introduced in:** CCHS - Cycle 1.1

**Note:** Respondents less than 15 years old or more than 75 years old and respondents who have not worked at a job or business at any time in the past 12 months were excluded from the population. Higher scores indicate greater work stress.

Specifications			
Value	Condition(s)	Description	Notes
96	WSTFOPT = 2	Module not selected	NA
96	WSTT401 = NA	Population exclusions	NA
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(WSTT410 = DK, R, NS) or (WSTT411 = DK, R, NS) or (WSTT412 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
WSTT410 + WSTT411 + WSTT412	(0 <= WSTT410 <= 4) and (0 <= WSTT411 <= 4) and (0 <= WSTT412 <= 4)	Score obtained on the social support scale	(min: 0; max: 12)

**Note finale :** For more information, please see:  
1) Karasek R, Theorell T. Healthy Work: Stress, Productivity and the Reconstruction of Working Life. New York: Basic Books, Inc. 1990.  
2) Schwartz J, Pieper C, Karasek RA. "A procedure for linking psychosocial job characteristics data to health surveys". American Journal of Public Health 1988; 78: 904-9.



## Smoking - Youth smoking (1 DV)

### 1 ) Source of cigarettes - (G)

**Variable name:** YSMG1  
**Based on:** YSM\_1  
**Description:** This variable groups the source of cigarettes.  
**Introduced in:** CCHS - Cycle 2.1

Specifications			
Value	Condition(s)	Description	Notes
6	YSM_1 = 96	Not applicable	
9	YSM_1 = 98, 99	Not stated	
1	YSM_1 = 2	Buy from - Small Grocery/Corner Store	
2	YSM_1 = 1, 3, 4, 5, 6, or 7	Buy from - Other than small grocery	
3	YSM_1 = 8, 9, 10, 11, or 12	Other	