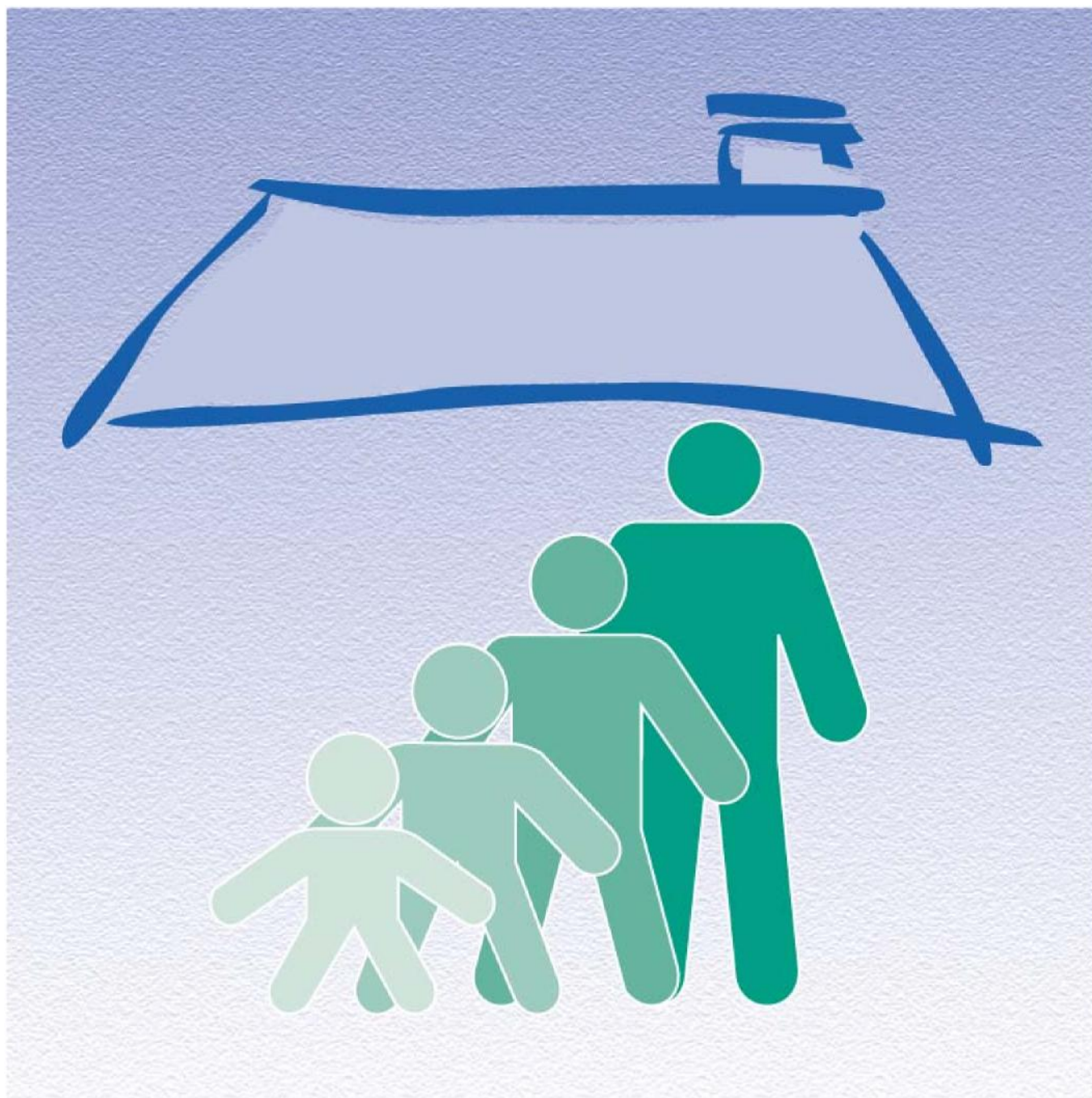


# Canadian Community Health Survey (CCHS) - Healthy Aging

Derived Variables

May 2010



Statistics  
Canada

Statistique  
Canada

Canada

# Table of Contents

## **ADL Activities of Daily Living (4 DVs)**

1) ADLDSUM - Sum of Some Dependence and Complete Dependence (Excluding Meal Preparation) - Temporary	1
2) ADLDCLST - Instrumental and Basic Activities of Daily Living Classification (Excluding Meal Preparation) - Temporary	4
3) ADLDMEA - Meal Preparation - Temporary	4
4) ADLDCLS - Instrumental and Basic Activities of Daily Living Classification	4

## **ALC Alcohol use (1 DV)**

1) ALCDTTM - Type of Drinker (12 Months)	6
--	---

## **CAG Care giving (4 DVs)**

1) CAGFPAS - Flag for Providing Assistance	7
2) CAGDRMC - Relationship of the Main Care Recipient	7
3) CAGDFAP - Frequency of Assistance Provided to the Main Care Recipient (for all sources of assistance)	8
4) CAGDIAR - Intensity of Assistance Provided on a Regular Basis to the Main Care Recipient (for all sources of assistance), past 12 months	9

## **CCC Chronic conditions (2 DVs)**

1) CCCF1 - Has a Chronic Condition	11
2) CCCDCPD - Has Chronic Obstructive Pulmonary Disease (COPD)	12

## **CLS Consent to share (3 DVs)**

1) CLSFCON - Flag for CLSA Consent Form Status	14
2) CLSDSHA - CLSA Consent to Share - Application	14
3) CLSDSHR - CLSA Consent to Share - Validation with consent form	14

## **CR1 Care receiving 1 (2 DVs)**

1) CR1FRHC - Flag for Receiving Formal Home Care Services	16
2) CR1DTRE - Type of Reason for Unmet Home Care Needs	16

## **CR2 Care receiving 2 (5 DVs)**

1) CR2FRHC - Flag for Receiving Informal Home Care	19
2) CR2DTHC - Receipt of Formal or Informal Home Care	19
3) CR2DRMC - Relationship of Main Caregiver	20
4) CR2DFAR - Frequency of Assistance Received from the Main Caregiver (for the main source of assistance)	21
5) CR2DIAR - Intensity of Assistance Received on a Regular Basis from the Main Caregiver (for the main source of assistance)	21

## **DHH Dwelling and household variables (10 DVs)**

1) DHHDYKD - Number of Persons in Household Less Than 16 Years of Age	24
2) DHHD45P - Number of Persons in Household Greater Than or Equal to 45 Years of Age	24
3) DHHD611 - Number of Persons in Household between 6 and 11 Years of Age	24
4) DHHD65P - Number of Persons in Household Greater Than or Equal to 65 Years of Age	25
5) DHHDECF - Economic Family Status (Household Type)	25
6) DHHDHSZ - Household Size	27
7) DHHD12 - Number of Persons in Household Less Than 12 Years of Age	28
8) DHHDLE5 - Number of Persons in Household Less Than 6 Years of Age	28
9) DHHDLVG - Living/Family Arrangement of Selected Respondent	28
10) DHHDWE - Dwelling Type	30

#### **DPS Depression (4 DVs)**

1) DPSPMT - Specific Month Last Felt Depressed	32
2) DPSPPP - Depression Scale - Probability of Caseness to Respondents	33
3) DPSPSF - Derived Depression Scale - Short Form Score	33
4) DPSPWK - Number of Weeks Feeling Depressed - 12-Months	34

#### **EDU Education (4 DVs)**

1) EDUDH04 - Highest Level of Education - Household, 4 Levels	36
2) EDUDH10 - Highest Level of Education - Household, 10 Levels	36
3) EDUDR04 - Highest Level of Education - Respondent, 4 Levels	36
4) EDUDR10 - Highest Level of Education - Respondent, 10 Levels	37

#### **FAL Falls (3 DVs)**

1) FALDFOF - Fear of Falling	38
2) FALDCBP - Circumstance of Fall Resulting in Most Serious Injury, by Place of Occurrence – 12 months	38
3) FALDSTA - Fall Status - 12 months	39

#### **GEN General health (2 DVs)**

1) GENDHDI - Perceived Health	41
2) GENDMHI - Perceived Mental Health	41

#### **GEO Geography variables (10 DVs)**

1) GEODCD - 2006 Census Division (CD)	42
2) GEODCMA6 - 2006 Census Metropolitan Area (CMA)	42
3) GEODCSD - 2006 Census Subdivision (CSD)	43
4) GEODDA06 - 2006 Census Dissemination Area (DA)	43
5) GEODFED - 2006 Census Federal Electoral District (FED)	44
6) GEODPC - Postal Code	44
7) GEODPSZ - Population Size Group	44

8) GEODSAT - Statistical Area Classification Type (SAT)	45
9) GEODUR - Urban-Rural Classification	45
10) GEODUR2 - Urban-Rural Classification - Grouped	45
<b>HC2 Health care utilization 2 (1 DV)</b>	
1) HC2FCOP - Flag for Consultation with Health Professional	47
<b>HUI Health utilities index (8 DVs)</b>	
1) HUIDCOG - Cognition (Function Code)	48
2) HUIDDEX - Dexterity (Function Code)	49
3) HUIDEMO - Emotion (Function Code)	50
4) HUIDHER - Hearing (Function Code)	50
5) HUIDHSI - Health Utilities Index	51
6) HUIDMOB - Ambulation (Mobility) (Function Code)	52
7) HUIDSPE - Speech (Function Code)	53
8) HUIDVIS - Vision (Function Code)	54
<b>HUP Health utilities index - Pain and discomfort (1 DV)</b>	
1) HUPDPAD - Pain (Function Code)	56
<b>HWT Height and weight - Self-reported (4 DVs)</b>	
1) HWTDBMI - Body Mass Index - self-reported	57
2) HWTDHTM - Height (Metres) - self-reported	57
3) HWTDISW - BMI Classification for Adults Aged 18 and Over (self-reported) - International Standard	59
4) HWTDWTK - Weight (Kilograms) - self-reported	60
<b>IN2 Income (6 DVs)</b>	
1) IN2DHH - Total Household Income - All Sources	61
2) IN2DPER - Personal Income - All Sources	62
3) IN2TRAT - Household Income Ratio to Low Income Cut-off	63
4) IN2DADR - Adjusted Household Income Ratio - National level	67
5) IN2DRCA - Distribution of Household Income - National level	67
6) IN2DRPR - Distribution of Household Income - Provincial level	68
<b>LBF Labour force - Extended version (9 DVs)</b>	
1) LBFDWSL - Working Status Last Week (long form)	70
2) LBFDRNW - Main Reason for not Working Last Week	70
3) LBFDMJS - Multiple Job Status	71
4) LBFDHPW - Total Usual Hours Worked Per Week	72
5) LBFDPFT - Full-time/part-time Working Status (for total usual hours)	72

6) LBFDJST - Job Status Over Past Year	73
7) LBFFHNW - Flag for Never Worked in the Labour Force	74
8) LBFDING - Industry Group	74
9) LBFDOCG - Occupation Group	75
<b>LON Loneliness (1 DV)</b>	
1) LONDSCR - Three Item Loneliness Scale - Score	77
<b>MED Medication use (3 DVs)</b>	
1) MEDDNM - Number of Types of Medication Used (Past Month)	78
2) MEDDNMD - Number of Types of Medication Used Every Day (Past Month)	80
3) MEDF1 - Flag Indicating Medication Use (Past Month)	83
<b>NUR Nutritional risk (2 DVs)</b>	
1) NURDHNR - High Nutritional Risk	85
2) NURDSCR - Nutritional Risk - Score	85
<b>OH3 Oral health 3 (2 DVs)</b>	
1) OH3DFLO - Daily Flossing	88
2) OH3DBRU - Daily Brushing	88
<b>OWN Home ownership (2 DVs)</b>	
1) OWNDHEQ - Approximate Home Equity	89
2) OWNFTEN - Flag for Tenure of Dwelling	89
<b>PA2 Physical activities 2 (14 DVs)</b>	
1) PA2DAV02 - Average Number of Hours per day - Walking - Temporary	93
2) PA2DAV03 - Average Number of Hours per day - Light Sport / Recreational Activities - Temporary	93
3) PA2DAV04 - Average Number of Hours per day - Moderate Sport / Recreational Activities - Temporary	93
4) PA2DAV05 - Average Number of Hours per day - Strenuous Sport / Recreational Activities - Temporary	94
5) PA2DAV06 - Average Number of Hours per day - Muscle Strength / Endurance Exercises - Temporary	94
6) PA2FP07 - Flag for Participation - Light Housework - Temporary	94
7) PA2FP08 - Flag for Participation - Heavy Housework - Temporary	95
8) PA2FP9A - Flag for Participation - Home Repairs - Temporary	95
9) PA2FP9B - Flag for Participation - Lawn Work or Yard Care - Temporary	95
10) PA2FP9C - Flag for Participation - Outdoor Gardening - Temporary	96
11) PA2FP9D - Flag for Participation - Caring for Another Person - Temporary	96
12) PA2DAV10 - Average Number of Hours - Work for Pay / Volunteer - Temporary	96
13) PA2DSCR - PASE Score	97
14) PA2FLEI - Flag for Participant in Leisure Physical Activities	98

**RET Reasons for retirement (5 DVs)**

1) RETFSRS - Flag for Subjective Retirement Status	99
2) RETDARE - Age at First Retirement	99
3) RETDAPR - Age at Partial Retirement	100
4) RETDRS - Retirement Status	100
5) RETDWAR - Work After Retirement	101

**RPL Retirement planning (1 DV)**

1) RPLFPRE - Flag for Preparation Made for Retirement	103
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**SAM Sample variables (2 DVs)**

1) SAMDSHR - Permission to Share Data	104
2) SAMDLNK - Permission to Link	104

**SDC Socio-demographic characteristics (10 DVs)**

1) SDCCCB - Country of Birth Code	105
2) SDCDABT - Aboriginal Identity	105
3) SDCDAIM - Age at Time of Immigration	105
4) SDCDCGT - Cultural / Racial Background	106
5) SDCDFL1 - First Official Language Learned and Still Understood	108
6) SDCDLHM - Language(s) Spoken at Home	111
7) SDCDLNG - Language(s) in Which Respondent Can Converse	114
8) SDCDRES - Length of Time in Canada Since Immigration	116
9) SDCFIMM - Immigration Flag	117
10) SDCGCB - Country of Birth - grouped	117

**SLS Satisfaction With Life Scale (2 DVs)**

1) SLSDCLS - Satisfaction with Life Scale - Classification	118
2) SLSDSCR - Satisfaction with Life Scale - Score	118

**SMK Smoking (3 DVs)**

1) SMKDSTP - Number of Years Since Stopped Smoking Completely	120
2) SMKDSTY - Type of Smoker	120
3) SMKDYCS - Number of Years Smoked Daily (Current Daily Smokers Only)	121

**SPA Social participation (2 DVs)**

1) SPADFRE - Frequency of Community-Related Activity Participation (participant)	122
2) SPAFPAR - Flag for Participation in Community-Related Activities	123

**SSA Social support - Availability (4 DVs)**

1) SSADAFF - Affection - MOS Subscale	126
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2) SSADEMO - Emotional and Informational Support - MOS Subscale	127
3) SSADSOC - Positive Social Interaction - MOS Subscale	127
4) SSADTNG - Tangible Social Support - MOS Subscale	128

## Activities of Daily Living (4 DVs)

These derived variables create a classification of functional assessment that classifies respondents on a five point scale from no impairment to total impairment based on 14 activities of daily living and represents an indicator of self-care capacity (functional status). It includes 7 basic activities of daily living (ADL) and 7 instrumental activities of daily living (IAL). The instrumental activities of daily living (IAL) questions cover tasks that require a greater level of physical coordination than is required for the basic activities of daily living (ADL).

The instrument and the derived variable classification are developed from the activities of daily living component of the OARS Multidimensional Functional Assessment Questionnaire® (OMFAQ) developed by Dr. Gerda G. Fillenbaum and colleagues (Duke University Medical Center). The OMFAQ was developed as part of the Older Americans Resources and Services Program at Duke University (Duke OARS). Statistics Canada has been granted permission to use this copyright instrument in the CCHS on Healthy Aging. All modifications from the original questions and in the coding of the classification have been approved by Dr. Fillenbaum.

Modifications to the original questions were made to adapt the questionnaire to fit the context of a CAPI administered population health survey. Please see the User Guide for a description of the differences between the original instrument and CCHS - Healthy Aging.

Although several derived variables are created below, they should be treated as preliminary steps towards the final specification of the Basic and Instrumental Activities of Daily Living Classification (ADLDCLS), which is the variable that should be used for analysis. The first step is the addition of all instances where the respondent indicated they needed help or were completely unable to do a task, excluding the questions on "meal preparation" (ADLDSUM). The second step is to reformat the summation into a temporary classification (ADLDCLST). The final classification of functional assessment is created using the classification that excludes meal preparation (ADLDCLST) and the variable on meal preparation (ADLDMEA). As per the OMFAQ instrument, meal preparation is treated separately because of the particular importance of this activity to the maintenance of functional independence.

Information about the OARS has been published in:

Fillenbaum GG, Smyer M. The development, validity and reliability of the OARS Multidimensional Functional Assessment Questionnaire. *Journal of Gerontology*, 1981;36: 428-434.

Information on how to obtain the manual, which also includes information on scoring, is available at the Duke Aging Center website <http://www.geri.duke.edu>.

### 1 ) Sum of Some Dependence and Complete Dependence (Excluding Meal Preparation) - Temporary

**Variable name:** ADLDSUM

**Based on:** ADL\_01B, ADL\_01C, ADL\_02B, ADL\_02C, ADL\_03B, ADL\_03C, ADL\_04B, ADL\_04C, ADL\_05B, ADL\_05C, ADL\_06B, ADL\_06C, ADL\_07A, ADL\_07B, IAL\_01B, IAL\_01C, IAL\_02B, IAL\_02C, IAL\_03B, IAL\_03C, IAL\_05B, IAL\_05C, IAL\_06B, IAL\_06C, IAL\_07B, IAL\_07C

**Description:** This variable calculates the total number of times the respondent indicated in the IAL and ADL sections that they need help with an activity or that they are completely unable to do an activity. The respondent is unable to say yes to both needing help and to being completely unable to do an activity.

The variable excludes IAL\_04A, IAL\_04B, IAL\_04C (ability to prepare his/her own meals), following the OARS instrument, which calculates the "meal preparation" variables separately to give it more weight.

**Note:** This DV has been created in accordance with the manual provided by the instrument's author (Multidimensional Functional Assessment of Older Adults - Duke OARS - Copyright 1988).

A difference between the OARS manual and this calculation is that Statistics Canada includes the variables ADL\_07A and ADL\_07B. After consultation with the author of the instrument, it was determined that this variable was mistakenly omitted from the OARS manual and should be part of the calculation. The question ADL\_07B modifies the score on the variable related to continence (ADL\_07A). Specifically, questions regarding "getting to the bathroom on time" were coded as follows:

- "No trouble getting to bathroom" or "wets/soils self never or less than once a week" = "without help"
- "Has a catheter or colostomy" or "wets/soils self once or twice a week" = "needs some help"
- "Has trouble getting to bathroom on time" or "wets/soils three times a week or more" = "completely unable"

#### Temporary Reformat

Value	Condition(s)	Description	Notes
ADLT01B = 1	ADL_01B = 1	Recode to 1	
ADLT01B = 0	ADL_01B = 2, NA	Recode to 0	
ADLT01C = 1	ADL_01C = 1	Recode to 1	
ADLT01C = 0	ADL_01C = 2, NA	Recode to 0	
ADLT02B = 1	ADL_02B = 1	Recode to 1	



ADLT02B = 0	ADL_02B = 2, NA	Recode to 0
ADLT02C = 1	ADL_02C = 1	Recode to 1
ADLT02C = 0	ADL_02C = 2, NA	Recode to 0
ADLT03B = 1	ADL_03B = 1	Recode to 1
ADLT03B = 0	ADL_03B = 2, NA	Recode to 0
ADLT03C = 1	ADL_03C = 1	Recode to 1
ADLT03C = 0	ADL_03C = 2, NA	Recode to 0
ADLT04B = 1	ADL_04B = 1	Recode to 1
ADLT04B = 0	ADL_04B = 2, NA	Recode to 0
ADLT04C = 1	ADL_04C = 1	Recode to 1
ADLT04C = 0	ADL_04C = 2, NA	Recode to 0
ADLT05B = 1	ADL_05B = 1	Recode to 1
ADLT05B = 0	ADL_05B = 2, NA	Recode to 0
ADLT05C = 1	ADL_05C = 1	Recode to 1
ADLT05C = 0	ADL_05C = 2, NA	Recode to 0
ADLT06B = 1	ADL_06B = 1	Recode to 1
ADLT06B = 0	ADL_06B = 2, NA	Recode to 0
ADLT06C = 1	ADL_06C = 1	Recode to 1
ADLT06C = 0	ADL_06C = 2, NA	Recode to 0
ADLT07A = 1	ADL_07A = 3	Recode to 1
ADLT07A = 0	ADL_07A = 1, 2	Recode to 0
ADLT07B = 1	ADL_07B = 2, 3	Recode to 1
ADLT07B = 0	ADL_07B = 1, NA	Recode to 0
IALT01B = 1	IAL_01B = 1	Recode to 1
IALT01B = 0	IAL_01B = 2, NA	Recode to 0
IALT01C = 1	IAL_01C = 1	Recode to 1
IALT01C = 0	IAL_01C = 2, NA	Recode to 0
IALT02B = 1	IAL_02B = 1	Recode to 1
IALT02B = 0	IAL_02B = 2, NA	Recode to 0
IALT02C = 1	IAL_02C = 1	Recode to 1
IALT02C = 0	IAL_02C = 2, NA	Recode to 0
IALT03B = 1	IAL_03B = 1	Recode to 1
IALT03B = 0	IAL_03B = 2, NA	Recode to 0
IALT03C = 1	IAL_03C = 1	Recode to 1
IALT03C = 0	IAL_03C = 2, NA	Recode to 0
IALT05B = 1	IAL_05B = 1	Recode to 1
IALT05B = 0	IAL_05B = 2, NA	Recode to 0
IALT05C = 1	IAL_05C = 1	Recode to 1
IALT05C = 0	IAL_05C = 2, NA	Recode to 0
IALT06B = 1	IAL_06B = 1	Recode to 1

IALT06B = 0	IAL_06B = 2, NA	Recode to 0
IALT06C = 1	IAL_06C = 1	Recode to 1
IALT06C = 0	IAL_06C = 2, NA	Recode to 0
IALT07B = 1	IAL_07B = 1	Recode to 1
IALT07B = 0	IAL_07B = 2, NA	Recode to 0
IALT07C = 1	IAL_07C = 1	Recode to 1
IALT07C = 0	IAL_07C = 2, NA	Recode to 0

## Specifications

Value	Condition(s)	Description	Notes
99	(ADL_01B = DK, RF, NS) or (ADL_01C = DK, RF, NS) or (ADL_02B = DK, RF, NS) or (ADL_02C = DK, RF, NS) or (ADL_03B = DK, RF, NS) or (ADL_03C = DK, RF, NS) or (ADL_04B = DK, RF, NS) or (ADL_04C = DK, RF, NS) or (ADL_05B = DK, RF, NS) or (ADL_05C = DK, RF, NS) or (ADL_06B = DK, RF, NS) or (ADL_06C = DK, RF, NS) or (ADL_07A = DK, RF, NS) or (ADL_07B = DK, RF, NS) or (IAL_01B = DK, RF, NS) or (IAL_01C = DK, RF, NS) or (IAL_02B = DK, RF, NS) or (IAL_02C = DK, RF, NS) or (IAL_03B = DK, RF, NS) or (IAL_03C = DK, RF, NS) or (IAL_05B = DK, RF, NS) or (IAL_05C = DK, RF, NS) or (IAL_06B = DK, RF, NS) or (IAL_06C = DK, RF, NS) or (IAL_07B = DK, RF, NS) or (IAL_07C = DK, RF, NS)	At least one of the required question was not answered (don't know, refusal, not stated)	NS
ADLT01B + ADLT01C + ADLT02B + ADLT02C + ADLT03B + ADLT03C + ADLT04B + ADLT04C + ADLT05B + ADLT05C + ADLT06B + ADLT06C + ADLT07A + ADLT07B + IALT01B + IALT01C + IALT02B + IALT02C + IALT03B + IALT03C + IALT05B + IALT05C + IALT06B + IALT06C + IALT07B + IALT07C	(ADLT01B = 0, 1) and (ADLT01C = 0, 1) and (ADLT02B = 0, 1) and (ADLT02C = 0, 1) and (ADLT03B = 0, 1) and (ADLT03C = 0, 1) and (ADLT04B = 0, 1) and (ADLT04C = 0, 1) and (ADLT05B = 0, 1) and (ADLT05C = 0, 1) and (ADLT06B = 0, 1) and (ADLT06C = 0, 1) and (ADLT07A = 0, 1) and (ADLT07B = 0, 1) and (IALT01B = 0, 1) and (IALT01C = 0, 1) and (IALT02B = 0, 1) and (IALT02C = 0, 1) and (IALT03B = 0, 1) and (IALT03C = 0, 1) and (IALT05B = 0, 1) and (IALT05C = 0, 1) and (IALT06B = 0, 1) and (IALT06C = 0, 1) and (IALT07B = 0, 1) and (IALT07C = 0, 1)	Number of times respondent answers that they "need some help" doing an activity or that they are "completely unable to do" an activity.	(min: 0; max: 13)

## 2 ) Instrumental and Basic Activities of Daily Living Classification (Excluding Meal Preparation) - Temporary

**Variable name:** ADLDCLST

**Based on:** ADLDSUM

**Description:** This variable reformats ADLDSUM and assigns new values. The value of ADLDCLST is the score for the ADL and IAL sections, with the exclusion of questions on ability to prepare meals (IAL\_04A, IAL\_04B, IAL\_04C). Higher values indicate greater ADL problems, hence dependence on assistance to complete activities of daily living. The value of 4 represents "Total ADL problems," that is, the respondent is completely impaired.

**Note:** This DV has been created in accordance with the manual provided by the author (Multidimensional Functional Assessment of Older Adults - Duke OARS - Copyright 1988).

Specifications			
Value	Condition(s)	Description	Notes
9	ADLDSUM = 99	At least one of the required questions was not answered (don't know, refusal)	NS
0	ADLDSUM = 0	No ADL problems	
1	ADLDSUM = (1, 2, 3)	Mild ADL problems	
2	ADLDSUM = (4, 5)	Moderate ADL problems	
3	ADLDSUM = (6, 7)	Severe ADL problems	
4	ADLDSUM = (8, 9, 10, 11, 12, 13)	Total ADL problems	

## 3 ) Meal Preparation - Temporary

**Variable name:** ADLDMEA

**Based on:** IAL\_04A, IAL\_04B, and IAL\_04C

**Description:** This variable creates a score for the questions pertaining to the ability to prepare one's own meals. This variable will be used with the ADLDCLST variable to create a complete score for these two modules. The authors of the OARS instrument determined that meal preparation was important to independent living, independent of other variables; if one can prepare his/her own meals, it means he/she can still manage on a daily basis. When one is unable to prepare his/her own meals, the situation is more precarious, thus he/she likely needs regular and more frequent help.

**Note:** This DV has been created in accordance with the manual provided by the author (Multidimensional Functional Assessment of Older Adults - Duke OARS - Copyright 1988).

Specifications			
Value	Condition(s)	Description	Notes
1	IAL_04B = 1 or IAL_04C = 1	Needs help to prepare meals or completely unable to prepare meals	
0	IAD_04A = 1	Able to prepare own meals without help	
9	IAL_04A = DK, RF, NS or IAL_04B = DK, RF or IAL_04C = DK, RF	At least one required question was not answered (don't know, refusal, not stated)	NS

## 4 ) Instrumental and Basic Activities of Daily Living Classification

**Variable name:** ADLDCLS

**Based on:** ADLDMEA, ADLDCLST

**Description:** This variable is an overall summary measure of ratings of the ADL capacity-instrumental and physical dimensions.

A 5-point scale is described in the OARS manual for the calculation of the final score, with 2 being the lowest score ("Excellent/Good") and 6 being the highest ("Total Impairment"). For the purpose of CCHS - Healthy Aging, the same 5-point scale is used. However, the instrument has been rescaled from 1 to 5 instead of from 2 to 6. Category 1 has also been renamed from "Excellent/good" to "No functional impairment." Higher values indicate greater functional impairment.

**Note:** This DV has been created in accordance with the manual provided by the author (Multidimensional Functional Assessment of Older Adults - Duke OARS - Copyright 1988).

Specifications			
Value	Condition(s)	Description	Notes
9	ADLDMEA = 9 or ADLDCLST = 9	At least one required question was not answered (don't know, refusal, not stated)	NS
1	ADLDMEA = 0 and ADLDCLST = 0	No functional impairment	
2	ADLDMEA = 0 and ADLDCLST = 1	Mild impairment	
3	(ADLDMEA = 1 and ADLDCLST = 0, 1) or (ADLDMEA = 0, 1 and ADLDCLST = 2)	Moderate impairment	
4	ADLDMEA = 0, 1 and ADLDCLST = 3	Severe impairment	
5	ADLDMEA = 0, 1 and ADLDCLST = 4	Total impairment	

## 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.

**Note:** This derived variable was introduced in 2007 (Cycle 4.1). 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, RF, NS) or (ALC_2 = DK, RF, 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	

## Care giving (4 DVs)

### 1 ) Flag for Providing Assistance

**Variable name:** CAGFPAS

**Based on:** CAG\_01A, CAG\_01B, CAG\_01C, CAG\_01D, CAG\_01E, CAG\_01F, CAG\_01G, CAG\_01H, CAG\_02G.

**Description:** This flag variable indicates whether the respondent provided assistance to family members, friends or other people because of a health condition or limitation. Assistance provided as part of a volunteer organization or paid job is excluded.

Specifications			
Value	Condition(s)	Description	Notes
1	CAG_01A = 1 or CAG_01B = 1 or CAG_01C = 1 or CAG_01D = 1 or CAG_01E = 1 or CAG_01F = 1 or CAG_01H = 1 or CAG_02G = 1	Did provide assistance	
2	CAG_01G = 1 and CAG_02G = 2	Did not provide assistance	
9	CAG_01A = (DK, RF, NS) or CAG_01B = (DK, RF, NS) or CAG_01C = (DK, RF, NS) or CAG_01D = (DK, RF, NS) or CAG_01E = (DK, RF, NS) or CAG_01F = (DK, RF, NS) or CAG_01G = (DK, RF, NS) or CAG_01H = (DK, RF, NS) or CAG_02G = (DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2 ) Relationship of the Main Care Recipient

**Variable name:** CAGDRMC

**Based on:** CAGFPAS, CAG\_03B, CAG\_04, CAG\_06A

**Description:** This variable describes the relationship of the main person the respondent provided assistance to over the past 12 months (for all sources of assistance) to the respondent. This variable was derived by creating a matrix between two characteristics of the main care recipient: sex (CAG\_04) and relationship to the respondent (CAG\_06A). The first digit provides the sex of the care recipient (based on CAG\_04, 1 for male and 2 for female) while the second and third digits describe the relationship between the respondent and the main care recipient (based on CAG\_06A, from 01 to 11). For example, code 103 = "male" and "parent" = father.

**Note:** Respondents who did not report providing assistance in the past 12 months before the interview are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	(CAGFPAS= 2)	Population exclusion - Did not report providing assistance	NA
996	CAG_01G = 1 and CAG_02G = 1	Population exclusion - Only provided financial assistance	

999	CAGFPAS = 9 or CAG_03C = 2 or CAG_04 = DK, RF, NS or CAG_06A = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated).	NS
101	CAG_04 =1 and CAG_06A =01	Husband	
102	CAG_04 =1 and CAG_06A =02	Male - common-law partner	
103	CAG_04 =1 and CAG_06A =03	Father	
104	CAG_04 =1 and CAG_06A =04	Son	
105	CAG_04 =1 and CAG_06A =05	Brother	
106	CAG_04 =1 and CAG_06A =06	Grandson	
107	CAG_04 =1 and CAG_06A =07	Father-in-law	
108	CAG_04 =1 and CAG_06A =08	Son-in-law	
109	CAG_04 =1 and CAG_06A =09	Brother-in-law	
110	CAG_04 =1 and CAG_06A =10	Male - other relative	
111	CAG_04 =1 and CAG_06A =11	Male - friend, neighbour, or other	
201	CAG_04 =2 and CAG_06A =01	Wife	
202	CAG_04 =2 and CAG_06A =02	Female - common-law partner	
203	CAG_04 =2 and CAG_06A =03	Mother	
204	CAG_04 =2 and CAG_06A =04	Daughter	
205	CAG_04 =2 and CAG_06A =05	Sister	
206	CAG_04 =2 and CAG_06A =06	Granddaughter	
207	CAG_04 =2 and CAG_06A =07	Mother-in-law	
208	CAG_04 =2 and CAG_06A =08	Daughter-in-law	
209	CAG_04 =2 and CAG_06A =09	Sister-in-law	
210	CAG_04 =2 and CAG_06A =10	Female - other relative	
211	CAG_04 =2 and CAG_06A =11	Female - friend, neighbour, or other	

### 3 ) Frequency of Assistance Provided to the Main Care Recipient (for all sources of assistance)

**Variable name:** CAGDFAP

**Based on:** CAGFPAS, CAG\_07C, CAG\_07D

**Description:** This variable indicates the frequency of assistance provided by the respondent to the main care recipient for all the sources of assistance (e.g. personal care, transport, etc.).

**Note:** Respondents who did not report providing assistance in the past 12 months before the interview are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	CAGFPAS = 2	Population exclusion - Did not provide assistance	NA
6	CAG_01G = 1 and CAG_02G = 1	Population exclusion - Only provided financial assistance	
9	CAGFPAS = 9 or CAG_03C = 2 or CAG_07C = DK, RF, NS or CAG_07D = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	CAG_07C = 1 and CAG_07D = 1	Regular basis – Daily	
2	CAG_07C = 1 and CAG_07D = 2	Regular basis – At least once a week	
3	CAG_07C = 1 and CAG_07D = 3	Regular basis – At least once a month	
4	CAG_07C = 1 and CAG_07D = 4	Regular basis – Less than once a month	
5	CAG_07C = 2	Occasionally or rarely	

#### 4 ) Intensity of Assistance Provided on a Regular Basis to the Main Care Recipient (for all sources of assistance), past 12 months

**Variable name:** CAGDIAR

**Based on:** CAGFPAS, CAG\_07C, CAG\_07D, CAG\_Q07E

**Description:** This variable indicates the intensity of assistance provided by the respondent on a regular basis to the main care recipient for all types of assistance (e.g. personal care, transportation). This variable refers to the past 12 months. This variable was derived by creating a matrix between all possible answers in two questions: frequency of assistance to the main care recipient (CAG\_Q07D) and average time spent giving care to the main care recipient (CR2\_Q07E). The first digit provides the frequency of assistance provided by the respondent based on the answer categories for CAG\_Q07D (from 1 to 4), and the second describes the intensity based on the answer categories for CAG\_Q07E (from 1 to 5).

**Note:** Respondents who did not report providing assistance in the past 12 months before the interview are excluded from the population. Respondents who provided assistance, but reported providing assistance to the main care recipient occasionally or rarely are also excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	CAGFPAS = 2	Population exclusion - Did not provide assistance	NA
996	CAG_01G = 1 and CAG_02G = 1	Population exclusion - Only provided financial assistance	
996	CAG_07C = 2	Population exclusion - provided assistance occasionally or rarely	NA



999	CAGFPAS = 9 or CAG_03C = 2 or CAG_07C = DK, RF, NS or CAG_07D = DK, RF, NS or CAG_07E = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
110	CAG_07D =1 and CAG_07E =1	Daily – Less than one hour	
120	CAG_07D =1 and CAG_07E =2	Daily – 1 hour to less than 3 hours	
130	CAG_07D =1 and CAG_07E =3	Daily – 3 hours to less than 5 hours	
140	CAG_07D =1 and CAG_07E =4	Daily – 5 hours to less than 10 hours	
150	CAG_07D = 1 and CAG_07E = 5	Daily – 10 hours or more	
210	CAG_07D = 2 and CAG_07E =1	At least once a week – Less than one hour	
220	CAG_07D = 2 and CAG_07E =2	At least once a week – 1 hour to less than 3 hours	
230	CAG_07D = 2 and CAG_07E = 3	At least once a week – 3 hours to less than 5 hours	
240	CAG_07D = 2 and CAG_07E =4	At least once a week – 5 hours to less than 10 hours	
250	CAG_07D = 2 and CAG_07E = 5	At least once a week – 10 hours or more	
310	CAG_07D =3 and CAG_07E =1	At least once a month – Less than one hour	
320	CAG_07D =3 and CAG_07E =2	At least once a month – 1 hour to less than 3 hours	
330	CAG_07D = 3 and CAG_07E = 3	At least once a month – 3 hours to less than 5 hours	
340	CAG_07D =3 and CAG_07E =4	At least once a month – 5 hours to less than 10 hours	
350	CAG_07D =3 and CAG_07E =5	At least once a month – 10 hours or more	
410	CAG_07D =4 and CAG_07E =1	Less than once a month – Less than one hour	
420	CAG_07D =4 and CAG_07E =2	Less than once a month – 1 hour to less than 3 hours	
430	CAG_07D =4 and CAG_07E =3	Less than once a month – 3 hours to less than 5 hours	
440	CAG_07D =4 and CAG_07E =4	Less than once a month – 5 hours to less than 10 hours	
450	CAG_07D =4 and CAG_07E =5	Less than once a month – 10 hours or more	

## Chronic conditions (2 DVs)

### 1 ) Has a Chronic Condition

**Variable name:** CCCF1

**Based on:** CCC\_031, CCC\_051, CCC\_053, CCC\_061, CCC\_071, CCC\_081, CCC\_91A, CCC\_91E, CCC\_91F, CCC\_101, CCC\_119, CCC\_120, CCC\_121, CCC\_131, CCC\_141, CCC\_151, CCC\_161, CCC\_171, CCC\_181, CCC\_183, CCC\_191, CCC\_201, CCC\_211, CCC\_280, CCC\_290, CCC\_901

**Description:** This variable indicates whether the respondent has one or more chronic health conditions which were diagnosed by a health professional.

**Note:** The chronic conditions included in CCHS - Healthy Aging differ from previous cycles; therefore, the questions used in this derived variable are not the same as previous versions.

Specifications			
Value	Condition(s)	Description	Notes
9	CCC_031 = DK, RF, NS or CCC_051 = DK, RF, NS or CCC_053 = DK, RF, NS or CCC_061 = DK, RF, NS or CCC_071 = DK, RF, NS or CCC_081 = DK, RF, NS or CCC_91A = DK, RF, NS or CCC_91E = DK, RF, NS or CCC_91F = DK, RF, NS or CCC_101 = DK, RF, NS or CCC_119 = DK, RF, NS or CCC_120 = DK, RF, NS or CCC_121 = DK, RF, NS or CCC_131 = DK, RF, NS or CCC_141 = DK, RF, NS or CCC_151 = DK, RF, NS or CCC_161 = DK, RF, NS or CCC_171 = DK, RF, NS or CCC_181 = DK, RF, NS or CCC_183 = DK, RF, NS or CCC_191 = DK, RF, NS or CCC_201 = DK, RF, NS or CCC_211 = DK, RF, NS or CCC_280 = DK, RF, NS or CCC_290 = DK, RF, NS or CCC_901 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS

2	CCC_031 = 2 and CCC_051 = 2 and CCC_053 = 2 and CCC_061 = 2 and CCC_071 = 2 and CCC_081 = 2 and CCC_91A = 2 and CCC_91E = 2 and CCC_91F = 2 and CCC_101 = 2 and CCC_119 = 2 and CCC_120 = 2 and CCC_121 = 2 and CCC_131 = 2 and CCC_141 = 2 and CCC_151 = 2 and CCC_161 = 2 and CCC_171 = 2 and CCC_181 = 2 and CCC_183 = 2 and CCC_191 = 2 and CCC_201 = 2 and CCC_211 = 2 and CCC_280 = 2 and CCC_290 = 2 and CCC_901 = 2	Has no chronic conditions
1	CCC_031 = 1 or CCC_051 = 1 or CCC_053 = 1 or CCC_061 = 1 or CCC_071 = 1 or CCC_081 = 1 or CCC_91A = 1 or CCC_91E = 1 or CCC_91F = 1 or CCC_101 = 1 or CCC_119 = 1 or CCC_120 = 1 or CCC_121 = 1 or CCC_131 = 1 or CCC_141 = 1 or CCC_151 = 1 or CCC_161 = 1 or CCC_171 = 1 or CCC_181 = 1 or CCC_183 = 1 or CCC_191 = 1 or CCC_201 = 1 or CCC_211 = 1 or CCC_280 = 1 or CCC_290 = 1 or CCC_901 = 1	Has at least one chronic condition

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

<b>Variable name:</b>	CCCDCPD
<b>Based on:</b>	CCC_91A, CCC_91E, CCC_91F
<b>Description:</b>	This DV was new in CCHS 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.
<b>Note:</b>	In the CCHS 2008, the population under 35 is excluded.

Specifications			
Value	Condition(s)	Description	Notes
9	(CCC_91A = DK, RF, NS) or (CCC_91E = DK, RF, NS) or (CCC_91F = DK, RF, 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	

## Consent to share (3 DVs)

### 1 ) Flag for CLSA Consent Form Status

**Variable name:** CLSFCON

**Based on:** CLSFN02, CLSDN03, DHH\_AGE, ADM\_N09

**Description:** This variable indicates whether a valid consent form was received. A valid consent form one in which one of the four consent options has been checked and contains a valid signature from the respondent or the respondent's proxy.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE > 85	Population exclusions - Age over 85	NA
6	ADM_N09 = 1	Population exclusions - Telephone interview	NA
1	CLSFN02 = 1 and (CLSDN03 = 1, 2, 3, or 4)	Consent form received and valid	
2	CLSFN02 = 2, 3 or (CLSFN02 = 1 and CLSDN03 = NS)	Consent form received but not valid	
3	(CLSFN02 = NS and CLSDN03 = NS)	Consent form not received	

### 2 ) CLSA Consent to Share - Application

**Variable name:** CLSDSHA

**Based on:** CLS\_N03, DHH\_AGE

**Description:** This derived variable indicates the interviewer's observation of what the respondent selected on their CLSA consent form.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE > 85	Population exclusion - Age over 85	NA
9	CLS_N03 = NS	Required question was not answered (not stated)	NS
1	CLS_N03 = 1	Shared contact and survey info	
2	CLS_N03 = 2	Shared contact info only	
3	CLS_N03 = 3	Shared survey info only	
4	CLS_N03 = 4	Did NOT give permission to share any information	
5	CLS_N03 = 5 or 6	Did NOT complete the form or would mail it back	

### 3 ) CLSA Consent to Share - Validation with consent form

**Variable name:** CLSDSHR

**Based on:** CLSDN03, CLSFCON

**Description:** This variable indicates whether the respondent agreed to share contact information and/or survey responses with CLSA. This final derived variable is based on the signed consent form received by Statistics Canada.

## Specifications

Value	Condition(s)	Description	Notes
6	CLSFCON = 6	Population exclusions - Age over 85 or telephone interview	NA
9	CLSFCON = 2 or CLSFCON = 3	Consent form not valid or not received	
1	CLSDN03 = 1	Agreed to share contact and survey information	
2	CLSDN03 = 2	Agreed to share contact information only	
3	CLSDN03 = 3	Agreed to share survey information only	
4	CLSDN03 = 4	Did NOT give permission to share any information	

## Care receiving 1 (2 DVs)

### 1 ) Flag for Receiving Formal Home Care Services

**Variable name:** CR1FRHC

**Based on:** CR1\_01A, CR1\_01B, CR1\_01C, CR1\_01D, CR1\_01E, CR1\_01F, CR1\_01G, CR1\_01H.

**Description:** This flag variable indicates whether the respondent received home care services provided by professionals (formal home care) during the past 12 months because of a health condition or limitation that affects their daily activities.

**Note:** This derived variable is similar to HMCFRHC – Received Home Care in previous CCHS cycles. However, it should be noted that the questions included in the CCHS – Healthy Aging are different than HMC.

#### Specifications

Value	Condition(s)	Description	Notes
9	CR1_01A = (DK, RF, NS) or CR1_01B = (DK, RF, NS) or CR1_01C = (DK, RF, NS) or CR1_01D = (DK, RF, NS) or CR1_01E = (DK, RF, NS) or CR1_01F = (DK, RF, NS) or CR1_01G = (DK, RF, NS) or CR1_01H = (DK, RF, NS)	The required question was not answered (don't know, refusal, not stated)	NS
1	CR1_01A = 1 or CR1_01B = 1 or CR1_01C = 1 or CR1_01D = 1 or CR1_01E = 1 or CR1_01F = 1 or CR1_01H = 1	Received formal home care services	
2	CR1_01G = 1	Did not receive formal home care services	

### 2 ) Type of Reason for Unmet Home Care Needs

**Variable name:** CR1DTRE

**Based on:** CR1\_03, CR1\_04A, CR1\_04B, CR1\_04C, CR1\_04D, CR1\_04E, CR1\_04F, CR1\_04G, CR1\_04H, CR1\_04I, CR1\_04J, CR1\_04K, CR1\_04L, CR1\_04M, CR1\_04N, CR1\_04O

**Description:** This derived variable groups reasons for unmet professional home care needs into three categories: "Personal circumstance", "Features of the health care system" and "Personal circumstances and features of health care system". The category "Features of the health care system" refers to limited availability or unavailability of home care services when and where they are required. The category "Personal circumstances" includes both individual accessibility problems, such as cost, and acceptability problems (attitudes toward and knowledge about home care).

**Note:** Respondents who did not report unmet home care needs are excluded from the population.

The following articles use this summary classification for unmet needs for health care:

Unmet needs for health care. Health Report. January 2002, Vol. 13, No. 2. Statistics Canada. Catalogue 82-003  
<http://www.statcan.gc.ca/studies-etudes/82-003/archive/2002/6061-eng.pdf>.

Changes in unmet health care needs. Health Reports. March 2002, Vol. 13, No. 3. Statistics Canada. Catalogue 82-003  
<http://www.statcan.gc.ca/studies-etudes/82-003/archive/2002/6101-eng.pdf>

As done in the Health Reports articles, the response category "other" is included under Personal circumstances.

#### Specifications

Value	Condition(s)	Description	Notes
May 2010			

6	CR1_03=2	Population exclusion - No unmet home care needs reported	NA
9	CR1_03 = DK, RF, NS or CR1_04A = DK, RF, NS or CR1_04B = DK, RF, NS or CR1_04C = DK, RF, NS or CR1_04D = DK, RF, NS or CR1_04E = DK, RF, NS or CR1_04F = DK, RF, NS or CR1_04G = DK, RF, NS or CR1_04H = DK, RF, NS or CR1_04I = DK, RF, NS or CR1_04J = DK, RF, NS or CR1_04K = DK, RF, NS or CR1_04L = DK, RF, NS or CR1_04M = DK, RF, NS or CR1_04N = DK, RF, NS or CR1_04O = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(CR1_04D=1 or CR1_04E=1 or CR1_04F=1 or CR1_04G=1 or CR1_04H=1 or CR1_04I=1 or CR1_04J=1 or CR1_04K=1 or CR1_04L=1 or CR1_04M=1 or CR1_04O=1) and (CR1_04A = 2 and CR1_04B = 2 and CR1_04C = 2 and CR1_04N =2)	Personal circumstances only (accessibility and/or acceptability)	
2	(CR1_04A = 1 or CR1_04B = 1 or CR1_04C = 1 or CR1_04N =1) and (CR1_04D=2 and CR1_04E=2 and CR1_04F=2 and CR1_04G=2 and CR1_04H=2 and CR1_04I=2 and CR1_04J=2 and CR1_04K=2 and CR1_04L=2 and CR1_04M=2 and CR1_04O=2)	Features of health care system only (availability)	
3	(CR1_04A = 1 or CR1_04B = 1 or CR1_04C = 1 or CR1_04N =1) or and (CR1_04D=1 or CR1_04E=1 or CR1_04F=1 or CR1_04G=1 or CR1_04H=1 or CR1_04I=1 or CR1_04J=1 or CR1_04K=1 or CR1_04L=1 or CR1_04M=1 or CR1_04O=1)	Personal circumstances and features of health care system	





## Care receiving 2 (5 DVs)

### 1 ) Flag for Receiving Informal Home Care

**Variable name:** CR2FRHC

**Based on:** CR2\_01AA, CR2\_01AB, CR2\_01AC, CR2\_01AD, CR2\_01AE, CR2\_01AF, CR2\_01AG, CR2\_01AH.

**Description:** This flag variable indicates whether the respondent received home care provided by family, friends or neighbours (informal home care) during the past 12 months because of a health condition or limitation that affects the respondent's daily activities.

Specifications			
Value	Condition(s)	Description	Notes
9	CR2_01AA = (DK, RF, NS) or CR2_01AB = (DK, RF, NS) or CR2_01AC = (DK, RF, NS) or CR2_01AD = (DK, RF, NS) or CR2_01AE = (DK, RF, NS) or CR2_01AF = (DK, RF, NS) or CR2_01AG = (DK, RF, NS) or CR2_01AH = (DK, RF, NS)	The required question was not answered (don't know, refusal, not stated)	NS
1	CR2_01AA = 1 or CR2_01AB = 1 or CR2_01AC = 1 or CR2_01AD = 1 or CR2_01AE = 1 or CR2_01AF = 1 or CR2_01AH = 1	Received informal home care	
2	CR2_01AG = 1	Did not receive informal home care	

### 2 ) Receipt of Formal or Informal Home Care

**Variable name:** CR2DTHC

**Based on:** CR1FRHC, CR2FRHC

**Description:** This variable indicates the type of home care received by the respondent (formal home care only, informal home care only or both formal and informal home care) during the past 12 months.

**Note:** This variable excludes respondents that did not report receiving home care in the CR1 and CR2 modules.

Specifications			
Value	Condition(s)	Description	Notes
9	CR1FRHC = 9 or CR2FRHC = 9	At least one required question was not answered (don't know, refusal, not stated)	NS
0	CR1FRHC = 2 and CR2FRHC = 2	Did not receive home care	
1	CR1FRHC = 1 and CR2FRHC = 2	Formal home care only	
2	CR1FRHC = 2 and CR2FRHC = 1	Informal home care only	
3	CR1FRHC = 1 and CR2FRHC = 1	Both formal and informal home care	

### 3 ) Relationship of Main Caregiver

**Variable name:** CR2DRMC

**Based on:** CR2FRHC, CR2\_12, CR2\_15

**Description:** This variable describes the gender and relationship of the main person who provided assistance to the respondent over the past 12 months (for the main source of assistance e.g. meal preparation and delivery) to the respondent. This variable was derived by creating a matrix between all possible answers for two characteristics of the main caregiver: relationship to the respondent (CR2\_15) and sex (CR2\_12). The first digit provides the sex of the main caregiver (1 for male and 2 for female), the second and third digits describe the relationship between the respondent and the main caregiver (based on CR2\_15, from 01 to 11). For example, code 103 = "male" and "parent" = father.

**Note:** Respondents who did not report informal home care in the past 12 months are excluded from the population.

#### Specifications

Value	Condition(s)	Description	Notes
996	CA2FRHC = 2	Population exclusion - Did not report informal home care	NA
999	CR2FRHC = 9 or CR2_12 = DK, RF, NS or CR2_15 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated).	NS
101	CR2_12 = 1 and CR2_15 = 01	Husband	
102	CR2_12 = 1 and CR2_15 = 02	Male - common-law partner	
103	CR2_12 = 1 and CR2_15 = 03	Father	
104	CR2_12 = 1 and CR2_15 = 04	Son	
105	CR2_12 = 1 and CR2_15 = 05	Brother	
106	CR2_12 = 1 and CR2_15 = 06	Grandson	
107	CR2_12 = 1 and CR2_15 = 07	Father-in-law	
108	CR2_12 = 1 and CR2_15 = 08	Son-in-law	
109	CR2_12 = 1 and CR2_15 = 09	Brother-in-law	
110	CR2_12 = 1 and CR2_15 = 10	Male - other relative	
111	CR2_12 = 1 and CR2_15 = 11	Male - friend, neighbour, or other	
201	CR2_12 = 2 and CR2_15 = 01	Wife	
202	CR2_12 = 2 and CR2_15 = 02	Female - common-law partner	
203	CR2_12 = 2 and CR2_15 = 03	Mother	
204	CR2_12 = 2 and CR2_15 = 04	Daughter	
205	CR2_12 = 2 and CR2_15 = 05	Sister	

206	CR2_12 = 2 and CR2_15 = 06	Granddaughter
207	CR2_12 = 2 and CR2_15 = 07	Mother-in-law
208	CR2_12 = 2 and CR2_15 = 08	Daughter-in-law
209	CR2_12 = 2 and CR2_15 = 09	Sister-in-law
210	CR2_12 = 2 and CR2_15 = 10	Female - other relative
211	CR2_12 = 2 and CR2_15 = 11	Female - friend, neighbour, or other

#### 4 ) Frequency of Assistance Received from the Main Caregiver (for the main source of assistance)

**Variable name:** CR2DFAR

**Based on:** CR2FRHC, CR2\_17A, CR2\_17B

**Description:** This variable indicates the frequency of assistance received by the respondent from the main caregiver for the main source of assistance (e.g. personal care).

**Note:** Respondents who did not report informal home care in the past 12 months are excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	CR2FRHC = 2	Population exclusion - Did not report informal home care	NA
99	CR2FRHC = 9 or CR2_17A = DK, RF, NS or CR2_17B = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	CR2_17A = 1 and CR2_17B = 1	Regular basis – Daily	
2	CR2_17A = 1 and CR2_17B = 2	Regular basis – At least once a week	
3	CR2_17A = 1 and CR2_17B = 3	Regular basis – At least once a month	
4	CR2_17A = 1 and CR2_17B = 4	Regular basis – Less than once a month	
5	CR2_17A = 2	Occasionally or rarely	

#### 5 ) Intensity of Assistance Received on a Regular Basis from the Main Caregiver (for the main source of assistance)

**Variable name:** CR2DIAR

**Based on:** CR2FRHC, CR2\_17A, CR2\_17B, CR2\_Q18

**Description:** This variable indicates the intensity of assistance received by the respondent on a regular basis from the main caregiver for the main source of assistance (e.g. personal care). This variable refers to the past 12 months. This variable was derived by creating a matrix between all possible answers in two questions: frequency of assistance from the main caregiver for the main source of assistance (CR2\_Q17B) and average time spent by the main caregiver for the main source of assistance

(CR2\_Q18). The first digit provides the frequency of assistance provided by the main caregiver based on the answer categories for CR2\_Q17B (from 1 to 4), and the second describes the intensity based on the answer categories for CR2\_Q18 (from 1 to 5);

**Note:** Respondents who did not report informal home care in the past 12 months before the interview are excluded from the population. Respondents who received informal home care, but reported receiving assistance (from the main caregiver for the main source of assistance) occasionally or rarely are also excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	CR2FRHC = 2	Population exclusion - Did not report informal home care	NA
996	CR2_17A = 2	Population exclusion - Report assistance received occasionally or rarely	NA
999	CR2FRHC = 9 or CR2_17A = DK, RF, NS or CR2_17B = DK, RF, NS or CR2_18 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
110	CR2_17B =1 and CR2_18 =1	Daily – Less than one hour	
120	CR2_17B =1 and CR2_18 =2	Daily – 1 hour to less than 3 hours	
130	CR2_17B =1 and CR2_18 =3	Daily – 3 hours to less than 5 hours	
140	CR2_17B =1 and CR2_18 =4	Daily – 5 hours to less than 10 hours	
150	CR2_17B =1 and CR2_18 =5	Daily – 10 hours or more	
210	CR2_17B =2 and CR2_18 =1	At least once a week – Less than one hour	
220	CR2_17B =2 and CR2_18 =2	At least once a week – 1 hour to less than 3 hours	
230	CR2_17B =2 and CR2_18 =3	At least once a week – 3 hours to less than 5 hours	
240	CR2_17B =2 and CR2_18 =4	At least once a week – 5 hours to less than 10 hours	
250	CR2_17B =2 and CR2_18 =5	At least once a week – 10 hours or more	
310	CR2_17B =3 and CR2_18 =1	At least once a month – Less than one hour	
320	CR2_17B =3 and CR2_18 =2	At least once a month – 1 hour to less than 3 hours	
330	CR2_17B =3 and CR2_18 =3	At least once a month – 3 hours to less than 5 hours	
340	CR2_17B =3 and CR2_18 =4	At least once a month – 5 hours to less than 10 hours	
350	CR2_17B =3 and CR2_18 =5	At least once a month – 10 hours or more	
410	CR2_17B =4 and CR2_18 =1	Less than once a month – Less than one hour	
420	CR2_17B =4 and CR2_18 =2	Less than once a month – 1 hour to less than 3 hours	
430	CR2_17B =4 and CR2_18 =3	Less than once a month – 3 hours to less than 5 hours	

440	CR2_17B =4 and CR2_18 =4	Less than once a month – 5 hours to less than 10 hours
450	CR2_17B =4 and CR2_18 =5	Less than once a month – 10 hours or more

## Dwelling and household variables (10 DVs)

### 1 ) 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.

**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)

### 2 ) Number of Persons in Household Greater Than or Equal to 45 Years of Age

**Variable name:** DHHD45P

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

**Description:** This variable indicates the number of people living within a household whose age is greater than or equal to 45 years.

**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 greater than or equal to 45 within each SAMPLEID.

#### Specifications

Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE >= 45 (Member file)	Number of persons at least 45 years old in a household	(min: 0; max: 40)

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

**Variable name:** DHHD611

**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.

**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)

#### 4 ) Number of Persons in Household Greater Than or Equal to 65 Years of Age

**Variable name:** DHHD65P

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

**Description:** This variable indicates the number of people living within a household whose age is greater than or equal to 65 years.

**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 greater than or equal to 65 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE >= 65 (Member file)	Number of persons at least 65 years old in a household	(min: 0; max: 40)

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

**Variable name:** DHHDECF

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

**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.

**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 CCHS 2007 - Annual, foster children under 18 years of age have been coded to "child".

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DHH_REL</b>			
Z	RF, 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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	DHHDHSZ > 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.

## 6) Household Size

<b>Variable name:</b>	DHHDHSZ
<b>Based on:</b>	Based on household roster, SAMPLEID, PERSONID
<b>Description:</b>	This variable indicates the number of people living within a household.
<b>Note:</b>	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)

## 7 ) 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.

**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)

## 8 ) 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.

**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 PERSONID's with each SAMPLEID	DHH_AGE <= 5 (Member file)	Number of persons under 6 in a household	(min: 0; max: 40)

## 9 ) 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.

**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
<b>DHH_REL</b>			
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	DHHDHSZ = 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

## 10) 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) or face-to-face (DHH\_DW2).

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_DW1 = NA or DHH_DW2 = NA	Population exclusions	NA
99	(DHH_DW1 = DK, RF, NS) or (DHH_DW2 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(DHH_DW1 = 1) or (DHH_DW2 = 1)	Single detached	
2	(DHH_DW1 = 2) or (DHH_DW2 = 2)	Double	
3	(DHH_DW1 = 3) or (DHH_DW2 = 3)	Row or terrace	
4	(DHH_DW1 = 4) or (DHH_DW2 = 4)	Duplex	
5	(DHH_DW1 = 5) or (DHH_DW2 = 5)	Low-rise apartment (< 5 stories) or flat	
6	(DHH_DW1 = 6) or (DHH_DW2 = 6)	High-rise apartment (5 stories or more)	
8	(DHH_DW1 = 8) or (DHH_DW2 = 8)	Hotel/rooming house/camp	
9	(DHH_DW1 = 9) or (DHH_DW2 = 9)	Mobile home	
10	(DHH_DW1 = 10) or (DHH_DW2 = 10)	Other	

## 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. 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.

Temporary Reformat			
Value	Condition(s)	Description	Notes
<b>DPST02</b>			
0	DPS_02 = 2	Rescale answers needed for calculation so that answers are 1 for yes and 0 for no	
DPS_02	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	
DPS_05	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	
DPS_06	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, RF, NS)]	For DPS_07, answers are rescaled so 0 = respondent whose weight stayed the same or was on a diet	
0	[DPS_07 <= 2 and (DPS_08A <> DK, RF, 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	
1	[DPS_07 <= 2 and (DPS_08A <> DK, RF, 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	
DPT_10	DPS_10 <> 1, 2, 3	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	
DPS_11	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	
DPS_12	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	
DPS_13	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
DPS_16	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
DPS_19	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, RF, NS)]	For DPS_21, answers are rescaled so 0 = respondent whose weight stayed the same or was on a diet
0	[DPS_20 <= 2 and (DPS_21A <> DK, RF, 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
1	[DPS_20 <= 2 and (DPS_21A <> DK, RF, 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
DPS_24	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
DPS_25	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
DPS_26	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:** DPSTDMT

**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.

**Note:** The following respondents have been excluded from the population:  
 1) respondents who did not endorse having sufficient symptoms 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	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, RF, NS) or (DPS_15 = DK, RF, NS) or (DPS_27 = 52, DK, RF, NS) or (DPS_28 = DK, RF, NS) or (DPS_08A = DK, RF, NS) or (DPS_21A = DK, RF, 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).

**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
9.99	ADM_PRX = 1	Module not asked - proxy interview	NS
9.99	DPSPDSF = NS	At least one required question was not answered (don't know, refusal, not stated) or module not asked (proxy interview)	NS
0	DPSPDSF = 0	Probability of caseness to respondents	
0.05	DPSPDSF = 1	Probability of caseness to respondents	
0.25	DPSPDSF = 2	Probability of caseness to respondents	
0.50	DPSPDSF = 3	Probability of caseness to respondents	
0.80	DPSPDSF = 4	Probability of caseness to respondents	
0.90	DPSPDSF > 4	Probability of caseness to respondents	

## 3) Derived Depression Scale - Short Form Score

**Variable name:** DPSPDSF

**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 during the past 12 months. These include normal periods of sadness (for example, after the death of a loved one), as well as "serious" depression.

**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
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(DPST02 = DK, RF, NS) or (DPST05 = DK, RF, NS) or (DPST06 = DK, RF, NS) or (DPST08A = DK, RF, NS) or (DPST10 = DK, RF, NS) or (DPST11 = DK, RF, NS) or (DPST12 = DK, RF, NS) or (DPST13 = DK, RF, NS) or (DPST16 = DK, RF, NS) or (DPS_17 = DK, RF, NS) or (DPS_18 = DK, RF, NS) or (DPST19 = DK, RF, NS) or (DPST21A = DK, RF, NS) or (DPST23 = DK, RF, NS) or (DPST24 = DK, RF, NS) or (DPST25 = DK, RF, NS) or (DPST26 = DK, RF, 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 during the past 12 months, 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 during the past 12 months	(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 during the past 12 months	(min: 1; max: 7)

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

**Variable name:**

DPSDWK

**Based on:**

DPS\_14, DPS\_27

**Description:**

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

**Note:**

Respondents who did not endorse having sufficient symptoms of depression have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes

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, RF, NS) or (DPS_27 = DK, RF, NS) or (DPS_08A = DK, RF, NS) or (DPS_21A = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
DPS_14	DPS_14 < NA	Number of weeks during the past 12 months respondent felt sad, blue or depressed in the last year	
DPS_27	DPS_14 >= NA and DPS_27 < NA	Number of weeks during the past 12 months respondent lost interest in things in the last year	

## 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.

**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 EDUDH04 becomes NS. If all of EDUDR04 are NA (not applicable) then EDUDH04 becomes NA.

### 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.

**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 EDUDH10 becomes NS. If all of EDUDR10 are NA (not applicable) then EDUDH10 becomes NA.

### 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.

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, RF, NS) or (EDU_3 = DK, RF, NS) or (EDU_4 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

#### 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.

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, RF, NS) and EDU_2 = 2] or (EDU_2 = DK, RF, NS) or (EDU_3 = DK, RF, NS) or (EDU_4 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Falls (3 DVs)

The Falls module (FAL) is new to CCHS – Healthy Aging. The questions were asked only to respondents aged 65 or older.

### 1 ) Fear of Falling

**Variable name:** FALDFOF

**Based on:** FAL\_11, FAL\_12

**Description:** This variable indicates the level of fear of falling.

**Note:** Respondents younger than 65 years were excluded from Falls module.

#### Specifications

Value	Condition(s)	Description	Notes
6	DHH_AGE < 65	Population exclusion - age under 65	NA
9	FAL_11 = DK, RF, NS FAL_12 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	FAL_11 = 2	Not worried / concerned about future falls	
1	FAL_11 = 1 and FAL_12 = 2	Worried or concerned about future falls, have not stopped activities	
2	FAL_11 = 1 and FAL_12 = 1	Worried or concerned about future falls, have stopped some activities	

### 2 ) Circumstance of Fall Resulting in Most Serious Injury, by Place of Occurrence – 12 months

**Variable name:** FALDCBP

**Based on:** FAL\_01, FAL\_03, FAL\_06, FAL\_07

**Description:** This variable indicates how and where a fall resulting in injury occurred.

**Note:** This variable was derived by creating a matrix between all possible answers in FAL\_06 (circumstance of the most serious injury due to a fall) with all possible answers to question FAL\_07 (place of occurrence).

Respondents who did not suffer any falls in the previous 12 months, or whose fall did not result in serious injury, have been excluded from the population.

#### CODING STRUCTURE

	Inside respondent's home (FAL_07 =1)	Outside respondent's home, but inside a building (FAL_07 =2)	Outdoors (FAL_07 =3)
Tripped, stumbled or fell while standing or walking (FAL_06=1)	110	120	130
Fell while exercising (except walking) (FAL_06=2)	210	220	230
Fell from height of greater than 1 meter or 3 feet (FAL_06=3)	310	320	330
Fell from furniture	410	420	430

(FAL_06=4)			
Slipped in bathtub (FAL_06=5)	510	520	530
Other (FAL_06=6)	610	620	630

## Specifications

Value	Condition(s)	Description	Notes
9996	DHH_AGE < 65	Population exclusion (under age 65 )	NA
9996	FAL_01 = 2 or FAL_03 = 1	Population exclusion - No falls reported or fall did not result in serious injury	NA
9999	FAL_01 = (DK, RF, NS) or FAL_06 = (DK, RF, NS) or FAL_07 = (DK, RF, NS)	Required question was not answered (don't know, refusal, not stated)	NS
110	FAL_06 = 1 and FAL_07 = 1	Tripped, stumbled or fell while standing or walking - Inside home	
120	FAL_06 = 1 and FAL_07 = 2	Tripped, stumbled or fell while standing or walking - outside home, but inside a building	
130	FAL_06 = 1 and FAL_07 = 3	Tripped, stumbled or fell while standing or walking - outdoors	
210	FAL_06 = 2 and FAL_07 = 1	Fell while exercising (except walking) - inside home	
220	FAL_06 = 2 and FAL_07 = 2	Fell while exercising (except walking) - outside home, but inside a building	
230	FAL_06 = 2 and FAL_07 = 3	Fell while exercising (except walking) - outdoors	
310	FAL_06 = 3 and FAL_07 = 1	Fell from height of greater than 1 meter or 3 feet - inside home	
320	FAL_06 = 3 and FAL_07 = 2	Fell from height of greater than 1 meter or 3 feet - outside home, but inside a building	
330	FAL_06 = 3 and FAL_07 = 3	Fell from height of greater than 1 meter or 3 feet - outdoors	
410	FAL_06 = 4 and FAL_07 = 1	Fell from furniture - inside home	
420	FAL_06 = 4 and FAL_07 = 2	Fell from furniture - outside home but inside a building	
430	FAL_06 = 4 and FAL_07 = 3	Fell from furniture - outdoors	
510	FAL_06 = 5 and FAL_07 = 1	Slipped in bathtub – inside home	
520	FAL_06 = 5 and FAL_07 = 2	Slipped in bathtub – outside home, but inside a building	
530	FAL_06 = 5 and FAL_07 = 3	Slipped in bathtub – outdoors	
610	FAL_06 = 6 and FAL_07 = 1	Other circumstance of fall – inside home	
620	FAL_06 = 6 and FAL_07 = 2	Other circumstance of fall – outside home, but inside a building	
630	FAL_06 = 6 and FAL_07 = 3	Other circumstance of fall – outdoors	

## 3) Fall Status - 12 months

**Variable name:** FALDSTA

**Based on:** FAL\_01, FAL\_03, FAL\_04A, FAL\_04B

**Description:** This variable indicates whether the respondent reported a serious fall during the past 12 months, and the status of injury

**May 2010**

resulting from a fall.

**Note:** Respondents younger than 65 years were excluded from Falls module.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE < 65	Population exclusion - Age under 65	NA
9	(FAL_01 = DK, RF, NS) or (FAL_03 = DK, RF, NS) or (FAL_04A = DK, RF, NS) or (FAL_04B = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated).	NS
0	FAL_01 = 2	No falls reported	
1	FAL_03 = 1 or FAL_04A = 2	No serious injury due to a fall or injury not receiving medical attention	
2	FAL_04A = 1 and FAL_04B = 2	Injury receiving medical attention, without hospitalization	
3	FAL_04A = 1 and FAL_04B = 1	Injury receiving medical attention and hospitalization	

## 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 that of his/her proxy. Higher scores indicate positive perceived health status.

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

#### Specifications

Value	Condition(s)	Description	Notes
9	(GEN_01 = DK, RF, 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.

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

#### Specifications

Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Question not asked - proxy interview	NS
9	(GEN_02B = DK, RF, 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 (10 DVs)

All geographic variables use the geography from the 2006 Census.

### 1 ) 2006 Census Division (CD)

**Variable name:** GEODCD

**Based on:** 2006 Census

**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 based on the geography from the 2006 Census.

### 2 ) 2006 Census Metropolitan Area (CMA)

**Variable name:** GEODCMA6

**Based on:** 2006 Census

**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 respondent does not live in a CMA, this variable is equal to 000. GEODCMA6 is based on the geography from the 2006 Census.

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

### 3 ) 2006 Census Subdivision (CSD)

**Variable name:** GEODCSD

**Based on:** 2006 Census

**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 based on the geography from the 2006 Census.

### 4 ) 2006 Census Dissemination Area (DA)

**Variable name:** GEODDA06

**Based on:** 2006 Census

**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 territories of Canada. GEODDA06 is based on the geography from the 2006 Census.

## 5) 2006 Census Federal Electoral District (FED)

**Variable name:** GEODFED

**Based on:** GEODPC

**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. GEODFED is derived from GEODPC using the Postal Code Conversion File (PCCF).

## 6) Postal Code

**Variable name:** GEODPC

**Based on:** Respondent address information

**Description:** 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 a major sector entirely within a province. GEODPC is derived from the respondents' available address information.

## 7) 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.

### 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	

## 8) 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.

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	

## 9) 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.

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	

## 10) Urban-Rural Classification - Grouped

**Variable name:** GEODUR2

**Based on:** GEODUR

**Description:** This variable is a grouping of GEODUR into 2 categories (urban or rural). Units with GEODUR=9 are those in dissemination areas that are made up of a mix of urban and rural dissemination blocks. They were placed into urban or rural depending on which kind of block was more prevalent in the 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	

## Health care utilization 2 (1 DV)

### 1 ) Flag for Consultation with Health Professional

**Variable name:** HC2FCOP

**Based on:** HC2\_06A, HC2\_06B, HC2\_06C, HC2\_06D, HC2\_06E, HC2\_06F, HC2\_06G, HC2\_06H, HC2\_06I, HC2\_06J, HC2\_06K

**Description:** This variable indicates whether respondents saw or talked to at least one health professional in the last 12 months.

**Note:** The health care utilization questions used in CCHS - Healthy Aging are a modification of the HCU module in CCHS Annual. This derived variable is similar to HCUFCOP that was used in previous CCHS surveys. This derived variable does not include consultation with alternative health care provider (ref. HC2\_07) to increase comparability with the CCHS Annual DV.

Specifications			
Value	Condition(s)	Description	Notes
9	(HC2_06A = DK, RF, NS) or (HC2_06B = DK, RF, NS) or (HC2_06C = DK, RF, NS) or (HC2_06D = DK, RF, NS) or (HC2_06E = DK, RF, NS) or (HC2_06F = DK, RF, NS) or (HC2_06G = DK, RF, NS) or (HC2_06H = DK, RF, NS) or (HC2_06I = DK, RF, NS) or (HC2_06J = DK, RF, NS) or (HC2_06K = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(HC2_06A = 1) or (HC2_06B = 1) or (HC2_06C = 1) or (HC2_06D = 1) or (HC2_06E = 1) or (HC2_06F = 1) or (HC2_06G = 1) or (HC2_06H = 1) or (HC2_06I = 1) or (HC2_06J = 1) or (HC2_06K = 1)	Consulted a health professional at least once in the last 12 months	Other - Specify is counted if response is valid
2	HC2_06A = 2 and HC2_06B = 2 and HC2_06C = 2 and HC2_06D = 2 and HC2_06E = 2 and HC2_06F = 2 and HC2_06G = 2 and HC2_06H = 2 and HC2_06I = 2 and HC2_06J = 2 and HC2_06K = 2	Did not consult a health professional in the last 12 months	

## Health utilities index (8 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)

**Variable name:** HUIDCOG

**Based on:** HUI\_26, HUI\_27

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

#### Specifications

Value	Condition(s)	Description	Notes
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, RF, NS) or (HUI_27 = DK, RF, 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.

Specifications			
Value	Condition(s)	Description	Notes
1	HUI_21 = 1 and HUI_22 = NA and HUI_23 = NA and HUI_24 = NA	Full use of two hands and ten fingers	
2	HUI_21 = 2 and HUI_22 = 2 and HUI_23 = NA 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 = NA 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, RF, NS) or (HUI_22 = DK, RF, NS) or (HUI_23 = DK, RF, NS) or (HUI_24 = DK, RF, 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.

Specifications			
Value	Condition(s)	Description	Notes
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, RF, 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.

Specifications			
Value	Condition(s)	Description	Notes
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, RF, NS) or (HUI_07 = DK, RF, NS) or (HUI_07A = DK, RF, NS) or (HUI_08 = DK, RF, NS) or (HUI_09 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 5 ) Health Utilities 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 (in HUP module). The version of the index used in CCHS is adapted from

the HUI Mark 3 (HUI3). The index is designed to produce an overall health utility score. This multi-attribute utility index produces a score ranging from 1.000 (perfect health), through 0.000 (health status equal to death) to -0.360 (health status worse than death). 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. Analysts can use the complete health state (levels on all eight attributes) on the overall utility scale to produce a measure of an individual's perceived health-related quality of life (HRQL).

In addition, the 8 single-attribute utility scores could be developed to measure functional capacity within a single attribute. Each individual score ranges from 1.000 (normal) to 0.000 (most disabled). These derived variables are not included in the data file. To use a single-attribute utility scale (e.g. vision only), analysts would have to look at the following article or to go on the HUI Inc. website.

**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 1.000 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.

Specifications			
Value	Condition(s)	Description	Notes
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, RF, NS) or (HUI_15 = DK, RF, NS) or (HUI_16 = DK, RF, NS) or (HUI_17 = DK, RF, NS) or (HUI_18 = DK, RF, 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.

Specifications			
Value	Condition(s)	Description	Notes
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 him/her 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 him/her 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 him/her 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, RF, NS) or (HUI_11 = DK, RF, NS) or (HUI_12 = DK, RF, NS) or (HUI_13 = DK, RF, 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.

Specifications			
Value	Condition(s)	Description	Notes
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, RF, NS) or (HUI_02 = DK, RF, NS) or (HUI_03 = DK, RF, NS) or (HUI_04 = DK, RF, NS) or (HUI_05 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 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 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 ) 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).

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, RF, NS) or (HUP_03 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## Height and weight - Self-reported (4 DVs)

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

**Variable name:** HWTDBMI

**Based on:** HWT DHTM, HWT DWTk

**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

**Note:** BMI is not calculated for pregnant women. 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. This BMI score is created using "self-reported height" and "self-reported weight" variables.

#### Specifications

Value	Condition(s)	Description	Notes
999.96	HWT_1 = 1	Population exclusion - Pregnant women	NA
999.99	DHH_SEX = 2 and (HWT_1 = DK, RF, NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)	NS
999.99	HWT DHTM = NS or HWT DWTk = NS	Respondents for whom a valid self-reported height or self-reported weight was not obtained	NS
HWT DWTk / (HWT DHTM × HWT DHTM)	HWT DHTM < NA and HWT DWTk < NA	BMI calculated from both self-reported height and self-reported weight values	(Rounded to two decimal places)

### 2 ) Height (Metres) - self-reported

**Variable name:** HWT DHTM

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

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

**Note:** Height reported in imperial is converted to metric. 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	HWT_1 = 1	Population exclusion - Pregnant women	NA
9.999	ADM_PRX = 1	Module not asked - proxy interview	NS
9.999	(HWT_2 = DK, RF, NS) or (HWT_2C = DK, RF, NS) or (HWT_2D = DK, RF, NS) or (HWT_2E = DK, RF, NS) or (HWT_2F = DK, RF, 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

### 3 ) BMI Classification for Adults Aged 18 and Over (self-reported) - International Standard

**Variable name:** HWTDISW

**Based on:** HWTDBMI

**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.

**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. HWT\_1 = 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	HWT_1 = 1	Population exclusion - Pregnant women	NA
99	HWTDBMI = NS or (HWT_1 = DK, RF, 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

#### 4 ) 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.

Specifications			
Value	Condition(s)	Description	Notes
999.96	HWT_1 = 1	Population exclusion - Pregnant women	NA
999.99	ADM_PRX = 1	Module not asked (proxy interview)	
999.99	(HWT_3 = DK, RF, 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 × .45	HWT_N4 = 1	Weight in Kg., converted from Lbs.	(rounded to two decimal places)

## Income (6 DVs)

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 temporary derived variable is produced in three separate steps. A summary of those steps is provided below. This temporary derived variable is similar to INCTRAT that was used in previous CCHS surveys.

### Step 1a

Household income (IN2TINC) is obtained using IN2\_03A question for a specific amount and IN2DHH (IN2\_03B, IN2\_03C and IN2\_03H) for an amount in an interval.

If a specific amount is obtained at question IN2\_03A, that amount is used as household income. If only one interval is reported for IN2\_03C and IN2\_03H, a random value within each interval is derived for household income for all intervals but the highest two ("100,000 to 149,999" and "150,000 and over") (see Step 1b).

### Step 1b

For the highest household income intervals (\$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 and 2009, 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:

### Step 2

Low income cut-offs (before tax) 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 at the end of 2008 and in 2009, at the time the data was to be processed, 2007 was the most recent year for which all income data could be provided.

A low income cut-off was linked to all respondents (IN2TLIC). This cut-off corresponded to the size of the respondent's household (DHHDSZ) 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 times 5 community size groups). For instance, the cut-off for 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.

Ref.: Low income cut-offs (IN2TLIC) were taken from Table 3 in Low income cut-offs for 2007 and low income measures for 2006. Income Research Paper Series. Catalogue no. 75F0002M - No. 004, June 2008.

### Step 3

Individual ratios of household income to the low income cut-offs (IN2TRAT) are calculated for each household within each household and community size using the DHHDSZ household size variable and the GEODPSZ community size variable.

Ratios are calculated by dividing household income (IN2TINC) by the corresponding low income cut-off (IN2TLIC).

This temporary derived variable is similar to the temporary reformat in the introduction (INCTRAT) that was used in previous CCHS surveys.

This derived variable is similar to INCDHH that was used in previous CCHS surveys. However, the category "no income" was not included in CCHS - Healthy Aging.

## 1 ) Total Household Income - All Sources

**Variable name:** IN2DHH

**Based on:** IN2\_03B, IN2\_03C, IN2\_03H

**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 IN2\_03A.

**Note:** This derived variable is similar to INCDHH that was used in previous CCHS surveys. However, the category "no income" was not included in CCHS - Healthy Aging.

### Specifications

Value	Condition(s)	Description	Notes
99	IN2_03B = (DK, RF, NS) or IN2_03C = (DK, RF, NS) or IN2_03H = (DK, RF, NS)	One or more of the household income questions were not answered (don't know, refusal, not stated)	NS
1	IN2_03C = 1	Less than \$5,000	Includes 0
2	IN2_03C = 2	\$5,000 to \$9,999	

3	IN2_03C = 3	\$10,000 to \$14,999
4	IN2_03C = 4	\$15,000 to \$19,999
5	IN2_03C = 5	\$20,000 to \$29,999
6	IN2_03C = 6	\$30,000 to \$39,999
7	IN2_03C = 7	\$40,000 to \$49,999
8	IN2_03H = 1	\$50,000 to \$59,999
9	IN2_03H = 2	\$60,000 to \$69,999
10	IN2_03H = 3	\$70,000 to \$79,999
11	IN2_03H = 4	\$80,000 to \$89,999
12	IN2_03H = 5	\$90,000 to \$99,999
13	IN2_03H = 6	\$100,000 to \$149,999
14	IN2_03H = 7	\$150,000 and over

## 2) Personal Income - All Sources

**Variable name:** IN2DPER

**Based on:** IN2\_06B, IN2\_06C, IN2\_06H

**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 IN2\_06A.

**Note:** This derived variable is similar to INCDPER that was used in previous CCHS surveys. However, the category "no income" was not included in CCHS - Healthy Aging.

Specifications			
Value	Condition(s)	Description	Notes
99	IN2_06B = (DK, RF, NS) or IN2_06C = (DK, RF, NS) or IN2_06H = (DK, RF, NS)	One or more of the personal income questions were not answered (don't know, refusal, not stated)	NS
1	IN2_06C = 1	Less than \$5,000	Includes 0
2	IN2_06C = 2	\$5,000 to \$9,999	
3	IN2_06C = 3	\$10,000 to \$14,999	
4	IN2_06C = 4	\$15,000 to \$19,999	
5	IN2_06C = 5	\$20,000 to \$24,999	
6	IN2_06C = 6	\$25,000 to \$29,999	
7	IN2_06H = 1	\$30,000 to \$39,999	
8	IN2_06H = 2	\$40,000 to \$49,999	
9	IN2_06H = 3	\$50,000 to \$59,999	
10	IN2_06H = 4	\$60,000 to \$69,999	
11	IN2_06H = 5	\$70,000 to \$79,999	
12	IN2_06H = 6	\$80,000 to \$89,999	
13	IN2_06H = 7	\$90,000 to \$99,999	
14	IN2_06H = 8	\$100,000 and over	

### 3 ) Household Income Ratio to Low Income Cut-off

**Variable name:** IN2TRAT

**Based on:** IN2\_03A, IN2DHH, IN2\_03C, IN2\_03H, GEO\_PRV, DHHDSZ, GEODPSZ

**Description:** 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 temporary derived variable is produced in three separate steps. A summary of those steps is provided below. This temporary derived variable is similar to INCnTRAT that was used in previous CCHS surveys.

#### Step 1a

Household income (IN2TINC) is obtained using IN2\_03A question for a specific amount and IN2DHH (IN2\_03B, IN2\_03C and IN2\_03H) for an amount in an interval.

If a specific amount is obtained at question IN2\_03A, that amount is used as household income. If only one interval is reported for IN2\_03C and IN2\_03H, a random value within each interval is derived for household income for all intervals but the highest two ("100,000 to 149,999" and "150,000 and over") (see Step 1b).

#### Step 1b

For the highest household income intervals (\$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 and 2009, 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 2

Low income cut-offs (before tax) 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 at the end of 2008 and in 2009, at the time the data was to be processed, 2007 was the most recent year for which all income data could be provided.

A low income cut-off was linked to all respondents (IN2TLIC). This cut-off corresponded to the size of the respondent's household (DHHDSZ) 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 times 5 community size groups). For instance, the cut-off for 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.

Ref.: Low income cut-offs (IN2TLIC) were taken from Table 3 in Low income cut-offs for 2007 and low income measures for 2006. Income Research Paper Series. Catalogue no. 75F0002M - No. 004, June 2008.

#### Step 3

Individual ratios of household income to the low income cut-offs (IN2TRAT) are calculated for each household within each household and community size using the DHHDSZ household size variable and the GEODPSZ community size variable. Ratios are calculated by dividing household income (IN2TINC) by the corresponding low income cut-off (IN2TLIC).

**Note:** This temporary derived variable is similar to the temporary reformat in the introduction (INCTRAT) that was used in previous CCHS surveys.

#### Temporary Reformat

Value	Condition(s)	Description	Notes
IN2TINC			
May 2010			

999999	IN2DHH = 99	None of the income question were answered (don't know, refusal, not stated)	
0	IN2_03A = 0	No income	
IN2_03A	0 < IN2_03A < 999996	Specific and positive household income	
RANDOM (MIN=1, MAX=4999)	IN2_03C = 1	Random variable for a stated income in an interval of \$1 to \$4,999	Less than \$5,000
RANDOM (MIN=5000, MAX=9999)	IN2_03C = 2	Random variable for a stated income in an interval of \$5,000 to \$9,999	\$5,000 to \$9,999
RANDOM (MIN=10000, MAX=14999)	IN2_03C = 3	Random variable for a stated income in an interval of \$10,000 to \$14,999	\$10,000 to \$14,999
RANDOM (MIN=15000, MAX=19999)	IN2_03C = 4	Random variable for a stated income in an interval of \$15,000 to \$19,999	\$15,000 to \$19,999
RANDOM (MIN=20000, MAX=29999)	IN2_03C = 5	Random variable for a stated income in an interval of \$20,000 to \$29,999	\$20,000 to \$29,999
RANDOM (MIN=30000, MAX=39999)	IN2_03C = 6	Random variable for a stated income in an interval of \$30,000 to \$39,999	\$30,000 to \$39,999
RANDOM (MIN=40000, MAX=49999)	IN2_03C = 7	Random variable for a stated income in an interval of \$40,000 to \$49,999	\$40,000 to \$49,999
RANDOM (MIN=50000, MAX=59999)	IN2_03H = 1	Random variable for a stated income in an interval of \$50,000 to \$59,999	\$50,000 to \$59,999
RANDOM (MIN=60000, MAX=69999)	IN2_03H = 2	Random variable for a stated income in an interval of \$60,000 to \$69,999	\$60,000 to \$69,999
RANDOM (MIN=70000, MAX=79999)	IN2_03H = 3	Random variable for a stated income in an interval of \$70,000 to \$79,999	\$70,000 to \$79,999
RANDOM (MIN=80000, MAX=89999)	IN2_03H = 4	Random variable for a stated income in an interval of \$80,000 to \$89,999	\$80,000 to \$89,999
RANDOM (MIN=90000, MAX=99999)	IN2_03H = 5	Random variable for a stated income in an interval of \$90,000 to \$99,999	\$90,000 to \$99,999
133457	(IN2_03H = 6, 7) and GEO_PRV = 11	Imputed value from SLID if the province of residence is Prince Edward Island and income > 100,000\$	
139659	(IN2_03H = 6, 7) and GEO_PRV = 13	Imputed value from SLID if the province of residence is New Brunswick and income > 100,000\$	
142580	(IN2_03H = 6, 7) and GEO_PRV = 10	Imputed value from SLID if the province of residence is Newfoundland and Labrador and income > 100,000\$	
143119	(IN2_03H = 6, 7) and GEO_PRV = 24	Imputed value from SLID if the province of residence is Quebec and income > 100,000\$	
149934	(IN2_03H = 6, 7) and GEO_PRV = 46	Imputed value from SLID if the province of residence is Manitoba and income > 100,000\$	
145987	(IN2_03H = 6, 7) and GEO_PRV = 47	Imputed value from SLID if the province of residence is Saskatchewan and income > 100,000\$	

155787	(IN2_03H = 6, 7) and GEO_PRV = 59	Imputed value from SLID if the province of residence is British Columbia and income > 100,000\$
145050	(IN2_03H = 6, 7) and GEO_PRV = 12	Imputed value from SLID if the province of residence is Nova Scotia and income > 100,000\$
153360	(IN2_03H = 6, 7) and GEO_PRV = 35	Imputed value from SLID if the province of residence is Ontario and income > 100,000\$
182772	(IN2_03H = 6, 7) and GEO_PRV = 48	Imputed value from SLID if the province of residence is Alberta and income > 100,000\$
<b>IN2TLIC</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
18 659	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
21 666	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
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
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
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	DHHDHSZ = 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
26 972	DHHDHSZ = 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
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
25 968	DHHDHSZ = 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
28 379	DHHDHSZ = 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	DHHDHSZ = 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
33 159	DHHDHSZ = 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
27 714	DHHDHSZ = 4 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 4 and population size group = rural area



31 529	DHHDHSZ = 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
34 457	DHHDHSZ = 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	DHHDHSZ = 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
40 259	DHHDHSZ = 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
31 432	DHHDHSZ = 5 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 5 and population size group = rural area
35 760	DHHDHSZ = 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	DHHDHSZ = 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	DHHDHSZ = 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
45 662	DHHDHSZ = 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
35 452	DHHDHSZ = 6 and GEODPSZ = 1	Low income cut-offs when the number of persons in household = 6 and population size group = rural area
40 331	DHHDHSZ = 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	DHHDHSZ = 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	DHHDHSZ = 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
51 498	DHHDHSZ = 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
39 470	DHHDHSZ ≥ 7 and GEODPSZ = 1	Low income cut-offs when the number of persons in household ≥ 7 and population size group = rural area
44 903	DHHDHSZ ≥ 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
49 073	DHHDHSZ ≥ 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	DHHDHSZ ≥ 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
57 336	DHHDHSZ ≥ 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

Specifications
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Value	Condition(s)	Description	Notes
99.999999999	IN2TINC = 999999	The ratio cannot be calculated because the household income was not stated	9 decimals
IN2TINC / IN2TLIC	IN2TINC <> 999999	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, and the minimum low income cut-off (which is \$15,262).	9 decimals; min: 0, max: 40.000000000

#### 4 ) Adjusted Household Income Ratio - National level

**Variable name:** IN2DADR

**Based on:** IN2TRAT (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 (IN2TRAT) by the highest ratio for all survey respondents. This results in ratios ranging from 0 to 1.

**Note:** This derived variable is similar to INCDADR that was used in previous CCHS surveys.

Specifications			
Value	Condition(s)	Description	Notes
9.999999999	IN2TRAT = 99.999999999	The ratio cannot be calculated because the household income was not stated.	NS (9 decimal places)
0 - 1	IN2TRAT / 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)

#### 5 ) Distribution of Household Income - National level

**Variable name:** IN2DRCA

**Based on:** IN2DADR

**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 IN2DADR, 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.

**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.

This derived variable is similar to INCDRCA that was used in previous CCHS surveys.

Specifications			
Value	Condition(s)	Description	Notes
99	IN2DADR = 9.999999999	Not stated	NS
1	First 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 1	
2	Second 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 2	

3	Third 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 3
4	Fourth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 4
5	Fifth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 5
6	Sixth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 6
7	Seventh 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 7
8	Eighth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 8
9	Ninth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 9
10	Tenth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 10

## 6 ) Distribution of Household Income - Provincial level

**Variable name:** IN2DRPR

**Based on:** IN2DADR, 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 IN2DADR, 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.

**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 IN2DRPR 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).

This derived variable is similar to INCDRPR that was used in previous CCHS surveys.

Specifications			
Value	Condition(s)	Description	Notes
99	IN2DADR = 9.999999999	Not stated	NS
1	First 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 1	
2	Second 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 2	
3	Third 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 3	
4	Fourth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 4	
5	Fifth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 5	
6	Sixth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 6	
7	Seventh 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 7	

8	Eighth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 8
9	Ninth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 9
10	Tenth 10% of respondents from the ascending list of adjusted ratios (IN2DADR)	Decile 10

**Note finale :** Low income cut-offs (IN2TLIC) were taken from Table 3 in Low income cut-offs for 2007 and low income measures for 2006. Income Research Paper Series. Catalogue no. 75F0002M - No. 004, June 2008)

## Labour force - Extended version (9 DVs)

### 1 ) Working Status Last Week (long form)

**Variable name:** LBFDWSL

**Based on:** LBF\_01, LBF\_02A, LBF\_11, LBF\_41

**Description:** This variable classifies the respondent based on his/her working status in the week prior to the interview and also includes groupings for reasons for not working.

**Note:** Respondents more than 74 years old have been excluded from the population.

#### Specifications

Value	Condition(s)	Description	Notes
96	DHH_AGE > 74	Population exclusion	NA
1	LBF_01 = 1	Worked at a job or business	
2	(LBF_41 = 8, 9, 10, 12, 13)	Had a job - on temporary or seasonal layoff	
3	(0 < LBF_41 < 8) or LBF_41 = 11 or (13 < LBF_41 < NA)	Had a job - absent for other reason	
4	LBF_11 = 1 and LBF_01 = 2	Did not have a job - looked for work over past 4 weeks	
5	LBF_11 = 2 and LBF_01 = 2	Did not have a job - did not look for work over past 4 weeks	
6	(LBF_01 = 3) and (LBF_02A = 1, NA)	Permanently unable to work - has worked previously	
7	(LBF_01 = 2, 3) and (LBF_02A = 2)	Has never entered the labour force	
99	(LBF_11 = DK, RF, NS) or (LBF_41 = DK, RF, NS) or (LBF_02A = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

### 2 ) Main Reason for not Working Last Week

**Variable name:** LBFDRNW

**Based on:** LBF\_01, LBF\_02A, LBF\_11, LBF\_13, LBF\_41

**Description:** This variable indicates the main reason why the respondent did not work in the week prior to the interview.

**Note:** Respondents more than 74 years old or who worked the week preceding the interview have been excluded from the population.

In CCHS - Healthy Aging, the flow of the module has changed from previous cycles: The question "Have you ever worked at a job or business?" was added. This derived variable has changed to accommodate this new flow.

#### Specifications

Value	Condition(s)	Description	Notes
96	DHH_AGE > 74 or LBF_01 = 1	Population exclusion	NA

99	(LBF_01 = DK, RF, NS) or (LBF_02A = DK, RF, NS) or (LBF_11 = DK, RF, NS) or (LBF_13 = DK, RF, NS) or (LBF_41 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	(LBF_01 = 2, 3) and (LBF_02A = 2)	Has never entered the labour force	
1	(LBF_01 = 3) and (LBF_02A = 1, NA)	Permanently unable to work - has worked previously	
2	LBF_13 = 1 or LBF_41 = 1	Own illness or disability	
3	LBF_13 = 2 or LBF_41 = 2	Caring for - own children	
4	LBF_13 = 3 or LBF_41 = 3	Caring for - elder relative	
5	LBF_13 = 4 or LBF_41 = 4	Pregnancy/ maternity leave	
6	LBF_13 = 5 or LBF_41 = 5	Other personal or family responsibilities	
7	LBF_13 = 6 or LBF_41 = 6	Vacation	
8	LBF_13 = 7 or LBF_41 = 14	School or educational leave	
9	LBF_13 = 8	Retired	
10	LBF_13 = 9	Believes no work is available (in area or suited to skills)	
11	LBF_41 = 7	Labour dispute	
12	LBF_41 = 8	Temporary layoff due to business conditions	
13	LBF_41 = 9	Seasonal layoff	
14	LBF_41 = 10	Casual job, no work available	
15	LBF_41 = 12	Self-employed, no work available	
16	LBF_41 = 13	Seasonal business	
17	LBF_11 = 1	Looking for work	
18	LBF_41 = 11	Work schedule	
19	LBF_13 = 10 or LBF_41 = 15	Other reason	

### 3 ) Multiple Job Status

**Variable name:** LBFDMJS

**Based on:** LBF\_02A, LBF\_03, LBF\_21, LBF\_23, LBF\_51

**Description:** This variable classifies respondents based on whether or not they had multiple jobs in the past year and if they still do.

**Note:** Respondents more than 74 years old have been excluded from the population.

In CCHS - Healthy Aging, the flow of the module has changed from previous cycles: The question "Have you ever worked at a job or business?" was added. This derived variable has changed to accommodate this new flow.

#### Specifications

Value	Condition(s)	Description	Notes
96	DHH_AGE > 74	Population exclusion	NA
1	LBF_51 = 52	Currently has multiple jobs - had them all past year	
2	LBF_03 = 1 and LBF_51 < 52	Currently has multiple jobs - did not have them all past year	
3	LBF_03 = 2	Currently has only one job	
4	LBF_23 = 1	Currently does not have a job - held multiple jobs over past year	
5	LBF_23 = 2 or LBF_21 = 2	Currently does not have a job - did not hold multiple jobs over the year	
6	LBF_02A = 2	Currently does not have a job - never entered the labour force	
99	(LBF_02A = DK, RF, NS) or (LBF_03 = DK, RF, NS) or (LBF_21 = DK, RF, NS) or (LBF_23 = DK, RF, NS) or (LBF_51 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

#### 4 ) Total Usual Hours Worked Per Week

**Variable name:** LBFDHPW

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

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

**Note:** Respondents more than 74 years old or who did not work in the week prior to the interview have been excluded from the population.

In previous cycles, this variable was also called LBSDHPW.

Specifications			
Value	Condition(s)	Description	Notes
996	DHH_AGE > 74 or LBF_42 = NA	Population exclusion	NA
999	(LBF_42 = DK, RF, NS) or (LBF_53 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
LBF_42	LBF_42 < NA and LBF_53 = NA	Number of hours usually worked per week for respondents with one job	
LBF_42 + LBF_53	LBF_42 < NA and LBF_53 < NA	Number of total hours usually worked per week for respondents with more than one job	

#### 5 ) Full-time/part-time Working Status (for total usual hours)

**Variable name:** LBFDPFT

**Based on:** LBFDHPW

**Description:** This variable indicates if the respondent works full-time or part-time.

**Note:** Respondents more than 74 years old or who did not work in the week prior to the interview have been excluded from the population.

In previous cycles this variable was also called LBSDPFT.

### Specifications

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

## 6) Job Status Over Past Year

**Variable name:** LBFDJST

**Based on:** LBF\_01, LBF\_02A, LBF\_11, LBF\_22, LBF\_61, LBF\_71

**Description:** This variable indicates the respondent's job status over the past year.

**Note:** Respondents more than 74 years old have been excluded from the population.

In CCHS - Healthy Aging, the flow of the module has changed from previous cycles: The question "Have you ever worked at a job or business?" was added. This derived variable has changed to accommodate this new flow.

### Specifications

Value	Condition(s)	Description	Notes
96	LBF_01 = NA	Population exclusion	NA
0	LBF_02A = 2	Was without a job and has never worked before	
1	LBF_61 = 52	Has had a job throughout the past year	
2	LBF_71 = 52	Was without a job and looking for work throughout the past year	
3	LBF_22 = 2	Was without a job and not looking for work throughout past year	
4	((LBF_61 + LBF_71) = 52 and (0 < LBF_71 < 52) and LBF_61 < 52) or (LBF_61 = 51 and LBF_71A = 1)	Has had a job part of the year - was without a job and looking for work other part of the year	
5	((LBF_61 < 52 and LBF_71 = 0) or (LBF_61 = 51 and LBF_71A = 2)	Has had a job part of the year - was without a job and not looking for work other part of the year	
6	LBF_71 < 52 and LBF_1 = 2 and (LBFD_11 = 1 or LBF_22 = 1)	Was without a job and looking for work for part of the year - was without a job and not looking for work other part of the year	
7	(LBF_61 + LBF_71) < 52 and (0 < LBF_71 < 52) and LBF_61 < 52	Has had a job part of the year - was without a job and looking for work for part of the year - was without a job and not looking for work other part of year	
99	(LBF_02A = DK, RF, NS) or (LBF_11 = DK, RF, NS) or (LBF_22 = DK, RF, NS) or (LBF_61 = DK, RF, NS) or (LBF_71 = DK, RF, NS) or (LBF_71A = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS



## 7 ) Flag for Never Worked in the Labour Force

**Variable name:** LBFFHNW

**Based on:** LBF\_01, LBF\_02, LBF\_02A, GEN\_08

**Description:** This variable flags respondents who have indicated that they have never worked at a job or business before.

**Note:** Respondents more than 74 years of age have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE > 74	Population exclusions	NA
1	LBF_02A = 2	Has never worked in labour force	
2	LBF_01 = 1 or LBF_02 = 1 or LBF_02A = 1 or GEN_08 = 1	Has worked in the labour force	
9	(LBF_01 = DK, RF, NS) or (LBF_02 = DK, RF, NS) or (LBF_02A = DK, RF, NS) or (GEN_08 = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

## 8 ) Industry Group

**Variable name:** LBFDING

**Based on:** LBFCSC

**Description:** This variable indicates the industry group the respondent belongs to using the North American Industry Classification System (NAICS) 2007 at the 2-digit level.

**Note:** Respondents more than 74 years old 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.  
  
In previous cycles this variable was also called LBSDING.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE > 74 or LBSDWSL = 4, 5, 6, 7	Population exclusions	NA
99	LBFCSC = DK, RF, NS or LBFDWSL = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
01	1st 2 digits in LBFCSC = 11	Agriculture, Forestry, Fishing and Hunting	
02	1st 2 digits in LBFCSC = 21	Mining, Quarrying and Oil and Gas Extraction	
03	1st 2 digits in LBFCSC = 22	Utilities	
04	1st 2 digits in LBFCSC = 23	Construction	
05	1st 2 digits in LBFCSC = 31 or 32 or 33	Manufacturing	
06	1st 2 digits in LBFCSC = 41	Wholesale Trade	
07	1st 2 digits in LBFCSC = 44 or LBFCSC = 45	Retail Trade	

08	1st 2 digits in LBFCSC = 48 or LBFCSC = 49	Transportation and Warehousing
09	1st 2 digits in LBFCSC = 51	Information and Cultural Industries
10	1st 2 digits in LBFCSC = 52	Finance and Insurance
11	1st 2 digits in LBFCSC = 53	Real Estate and Rental and Leasing
12	1st 2 digits in LBFCSC = 54	Professional, Scientific and Technical Services
13	1st 2 digits in LBFCSC = 55	Management of Companies and Enterprises
14	1st 2 digits in LBFCSC = 56	Administrative and Support, Waste Management and Remediation Services
15	1st 2 digits in LBFCSC = 61	Educational Services
16	1st 2 digits in LBFCSC = 62	Health Care and Social Assistance
17	1st 2 digits in LBFCSC = 71	Arts, Entertainment and Recreation
18	1st 2 digits in LBFCSC = 72	Accommodation and Food Services
19	1st 2 digits in LBFCSC = 81	Other Services (except Public Administration)
20	1st 2 digits in LBFCSC = 91	Public Administration
95	LBFCSC = XXXX	Could not be coded

## 9) Occupation Group

**Variable name:** LBFDOCG

**Based on:** LBFCSOC

**Description:** This variable indicates the occupation group the respondent belongs to using the National Occupational Classification - Statistics (NOC-S) 2006 at the 2-digit level.

**Note:** Respondents aged more than 74 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.

In previous cycles this variable was also called LBSDOCG.

### Specifications

Value	Condition(s)	Description	Notes
96	DHH_AGE > 74 or LBSDWSL = 4, 5, 6, 7	Population exclusions	NA
99	LBFCSOC = DK, R, NS or LBFDSWL = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
01	First digit in LBFCSOC = A	Management Occupations	
02	First digit in LBFCSOC = B	Business, Finance and Administration Occupations	
03	First digit in LBFCSOC = C	Natural and Applied Sciences and Related Occupations	
04	First digit in LBFCSOC = D	Health Occupations	
05	First digit in LBFCSOC = E	Occupations in Social Science, Education, Government Service and Religion	
06	First digit in LBFCSOC = F	Occupations in Art, Culture, Recreation and Sport	
07	First digit in LBFCSOC = G	Sales and Service Occupations	

08	First digit in LBFSOC = H	Trades, Transport and Equipment Operators and Related Occupations
09	First digit in LBFSOC = I	Occupations Unique to Primary Industry
10	First digit in LBFSOC = J	Occupations Unique to Processing, Manufacturing and Utilities
95	LBFSOC = XXXX	Could not be coded

## Loneliness (1 DV)

CCHS - Healthy Aging is using the Three-Item Loneliness Scale, which is a short scale based on the Revised UCLA Loneliness Scale (R-UCLA). The psychometric properties were tested using the 2002 wave of the US Health and Retirement Study (HRS), as well as the Chicago Healthy Aging and Social Relations Study (CHASRS).

### 1 ) Three Item Loneliness Scale - Score

**Variable name:** LONDSCR

**Based on:** LON\_01, LON\_02, LON\_03

**Description:** This variable measures the degree of loneliness. This variable is derived by summing up the responses to the three items measuring loneliness, with higher scores indicating greater loneliness.

**Note:** Permission to use the 3-item loneliness scale in CCHS - Healthy Aging was granted.

**Source:** Hughes ME, Waite LJ, Hawkley LC and Cacioppo JT. "A short scale for measuring loneliness in large surveys: Results from two population based studies." Research on Aging. 2004. 26(6): 655-672.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	LON_01 = (DK, RF, NS) or LON_02 = (DK, RF, NS) or LON_03 = (DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
LON_01 + LON_02 + LON_03	LON_01 = (1, 2, 3) and LON_02 = (1, 2, 3) and LON_03 = (1, 2, 3)	Summation of Loneliness items	min: 3; max: 9

## Medication use (3 DVs)

### 1 ) Number of Types of Medication Used (Past Month)

**Variable name:** MEDDDNM

**Based on:** MED\_1A, MED\_1B, MED\_1C, MED\_1D, MED\_1E, MED\_1G, MED\_1I, MED\_1J, MED\_1L, MED\_1M, MED\_1P, MED\_1Q, MED\_1R, MED\_1T, MED\_1U, MED\_1V

**Description:** This variable indicates how many different types of medication a respondent has used in the past month.

**Note:** The information related to variable CCC\_073 (use of any medication for blood pressure in the past month) is not included in the calculation of this derived variable for consistency with MEDDDNMD because the survey does not ask about daily use of medication for blood pressure. Men are not asked about their use of hormones for menopause or aging symptoms.

Temporary Reformat			
Value	Condition(s)	Description	Notes
MEDT1A = 0	MED_1A = 2	Code temporary variable to 0 so that "did not take pain relievers" does not count in the sum of the different types of medications used.	
MEDT1A = 1	MED_1A = 1	Code temporary variable to 1 so that "took pain relievers" can be counted in the sum of the different types of medications used.	
MEDT1B = 0	MED_1B = 2	Code temporary variable to 0 so that "did not take tranquilizers" does not count in the sum of the different types of medications used.	
MEDT1B = 1	MED_1B = 1	Code temporary variable to 1 so that "took tranquilizers" can be counted in the sum of the different types of medications used.	
MEDT1C = 0	MED_1C = 2	Code temporary variable to 0 so that "did not take diet pills" does not count in the sum of the different types of medications used.	
MEDT1C = 1	MED_1C = 1	Code temporary variable to 1 so that "took diet pills" can be counted in the sum of the different types of medications used.	
MEDT1D = 0	MED_1D = 2	Code temporary variable to 0 so that "did not take anti-depressants" does not count in the sum of the different types of medications used.	
MEDT1D = 1	MED_1D = 1	Code temporary variable to 1 so that "took anti-depressants" can be counted in the sum of the different types of medications used.	
MEDT1E = 0	MED_1E = 2	Code temporary variable to 0 so that "did not take codeine, Demerol or morphine" does not count in the sum of the different types of medications used.	
MEDT1E = 1	MED_1E = 1	Code temporary variable to 1 so that "took codeine, Demerol or morphine" can be counted in the sum of the different types of medications used.	
MEDT1G = 0	MED_1G = 2	Code temporary variable to 0 so that "did not take asthma medications" does not count in the sum of the different types of medications used.	
MEDT1G = 1	MED_1G = 1	Code temporary variable to 1 so that "took asthma medications" can be counted in the sum of the different types of medications used.	
MEDT1I = 0	MED_1I = 2	Code temporary variable to 0 so that "did not take penicillin or other antibiotics" does not count in the sum of the different types of medications used.	

MEDT1I = 1	MED_1I = 1	Code temporary variable to 1 so that "took penicillin or other antibiotics" can be counted in the sum of the different types of medications used.
MEDT1J = 0	MED_1J = 2	Code temporary variable to 0 so that "did not take medicine for the heart" does not count in the sum of the different types of medications used.
MEDT1J = 1	MED_1J = 1	Code temporary variable to 1 so that "took medicine for the heart" can be counted in the sum of the different types of medications used.
MEDT1L = 0	MED_1L = 2	Code temporary variable to 0 so that "did not take diuretics or water pills" does not count in the sum of the different types of medications used.
MEDT1L = 1	MED_1L = 1	Code temporary variable to 1 so that "took diuretics or water pills" can be counted in the sum of the different types of medications used.
MEDT1M = 0	MED_1M = 2	Code temporary variable to 0 so that "did not take steroids" does not count in the sum of the different types of medications used.
MEDT1M = 1	MED_1M = 1	Code temporary variable to 1 so that "took steroids" can be counted in the sum of the different types of medications used.
MEDT1P = 0	MED_1P = 2	Code temporary variable to 0 so that "did not take sleeping pills" does not count in the sum of the different types of medications used.
MEDT1P = 1	MED_1P = 1	Code temporary variable to 1 so that "took sleeping pills" can be counted in the sum of the different types of medications used.
MEDT1Q = 0	MED_1Q = 2	Code temporary variable to 0 so that "did not take stomach remedies" does not count in the sum of the different types of medications used.
MEDT1Q = 1	MED_1Q = 1	Code temporary variable to 1 so that "took stomach remedies" can be counted in the sum of the different types of medications used.
MEDT1R = 0	MED_1R = 2	Code temporary variable to 0 so that "did not take laxatives" does not count in the sum of the different types of medications used.
MEDT1R = 1	MED_1R = 1	Code temporary variable to 1 so that "took laxatives" can be counted in the sum of the different types of medications used.
MEDT1T = 0	(MED_1T = 2, NA)	Code temporary variable to 0 so that "did not take hormones for menopause or aging symptoms" does not count in the sum of the different types of medications used.
MEDT1T = 1	MED_1T = 1	Code temporary variable to 1 so that "took hormones for menopause or aging symptoms" can be counted in the sum of the different types of medications used.
MEDT1U = 0	MED_1U = 2	Code temporary variable to 0 so that "did not take thyroid medication" does not count in the sum of the different types of medications used.
MEDT1U = 1	MED_1U = 1	Code temporary variable to 1 so that "took thyroid medication" can be counted in the sum of the different types of medications used.
MEDT1V = 0	MED_1V = 2	Code temporary variable to 0 so that "did not take any other medication" does not count in the sum of the different types of medications used.

MEDT1V = 1

MED\_1V = 1

Code temporary variable to 1 so that "took any other medication" can be counted in the sum of the different types of medications used.

## Specifications

Value	Condition(s)	Description	Notes
99	(MED_1A = DK, RF, NS) or (MED_1B = DK, RF, NS) or (MED_1C = DK, RF, NS) or (MED_1D = DK, RF, NS) or (MED_1E = DK, RF, NS) or (MED_1G = DK, RF, NS) or (MED_1I = DK, RF, NS) or (MED_1J = DK, RF, NS) or (MED_1L = DK, RF, NS) or (MED_1M = DK, RF, NS) or (MED_1P = DK, RF, NS) or (MED_1Q = DK, RF, NS) or (MED_1R = DK, RF, NS) or (MED_1T = DK, RF, NS) or (MED_1U = DK, RF, NS) or (MED_1V = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
MEDT1A + MEDT1B + MEDT1C + MEDT1D + MEDT1E + MEDT1G + MEDT1I + MEDT1J + MEDT1L + MEDT1M + MEDT1P + MEDT1Q + MEDT1R + MEDT1T + MEDT1U + MEDT1V	(MEDT1A = 0, 1) and (MEDT1B = 0, 1) and (MEDT1C = 0, 1) and (MEDT1D = 0, 1) and (MEDT1E = 0, 1) and (MEDT1G = 0, 1) and (MEDT1I = 0, 1) and (MEDT1J = 0, 1) and (MEDT1L = 0, 1) and (MEDT1M = 0, 1) and (MEDT1P = 0, 1) and (MEDT1Q = 0, 1) and (MEDT1R = 0, 1) and (MEDT1T = 0, 1) and (MEDT1U = 0, 1) and (MEDT1V = 0, 1)	Number of different types of medication a respondent has used in the past month	(min: 0; max: 16) Maximum for men is 15

## 2) Number of Types of Medication Used Every Day (Past Month)

**Variable name:** MEDDNMD

**Based on:** MED\_1AA, MED\_1BB, MED\_1CC, MED\_1DD, MED\_1EE, MED\_1GG, MED\_1II, MED\_1JJ, MED\_1LL, MED\_1MM, MED\_1PP, MED\_1QQ, MED\_1RR, MED\_1TT, MED\_1UU, MED\_1VV

**Description:** This variable indicates how many different types of medication a respondent has used every day in the past month.

**Note:** The information related to variable CCC\_073 (use of any medication for blood pressure in the past month) is not included in the calculation of this derived variable because the survey does not ask about daily use of medication for blood pressure. Men are not asked about their use of hormones for menopause or aging symptoms.

## Temporary Reformat

Value	Condition(s)	Description	Notes
MEDT1AA = 0	(MED_1AA = 2, NA)	Code temporary variable to 0 so that "did not take pain relievers on a daily basis" does not count in the sum of the different medications used everyday.	
MEDT1AA = 1	MED_1AA = 1	Code temporary variable to 1 so that "took pain relievers on a daily basis" can be counted in the sum of the different medications used everyday.	

MEDT1BB = 0	(MED_1BB = 2, NA)	Code temporary variable to 0 so that "did not take tranquilizers on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1BB = 1	MED_1BB = 1	Code temporary variable to 1 so that "took tranquilizers on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1CC = 0	(MED_1CC = 2, NA)	Code temporary variable to 0 so that "did not take diet pills on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1CC = 1	MED_1CC = 1	Code temporary variable to 1 so that "took diet pills on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1DD = 0	(MED_1DD = 2, NA)	Code temporary variable to 0 so that "did not take anti-depressants on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1DD = 1	MED_1DD = 1	Code temporary variable to 1 so that "took anti-depressants on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1EE = 0	(MED_1EE = 2, NA)	Code temporary variable to 0 so that "did not take codeine, Demerol or morphine on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1EE = 1	MED_1EE = 1	Code temporary variable to 1 so that "took codeine, Demerol or morphine on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1GG = 0	(MED_1GG = 2, NA)	Code temporary variable to 0 so that "did not take asthma medications on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1GG = 1	MED_1GG = 1	Code temporary variable to 1 so that "took asthma medications on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1II = 0	(MED_1II = 2, NA)	Code temporary variable to 0 so that "did not take penicillin or other antibiotics on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1II = 1	MED_1II = 1	Code temporary variable to 1 so that "took penicillin or other antibiotics on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1JJ = 0	(MED_1JJ = 2, NA)	Code temporary variable to 0 so that "did not take medicine for the heart on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1JJ = 1	MED_1JJ = 1	Code temporary variable to 1 so that "took medicine for the heart on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1LL = 0	(MED_1LL = 2, NA)	Code temporary variable to 0 so that "did not take diuretics or water pills on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1LL = 1	MED_1LL = 1	Code temporary variable to 1 so that "took diuretics or water pills on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1MM = 0	(MED_1MM = 2, NA)	Code temporary variable to 0 so that "did not take steroids on a daily basis" does not count in the sum of the different medications used everyday.



MEDT1MM = 1	MED_1MM = 1	Code temporary variable to 1 so that "took steroids on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1PP = 0	(MED_1PP = 2, NA)	Code temporary variable to 0 so that "did not take sleeping pills on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1PP = 1	MED_1PP = 1	Code temporary variable to 1 so that "took sleeping pills on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1QQ = 0	(MED_1QQ = 2, NA)	Code temporary variable to 0 so that "did not take stomach remedies on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1QQ = 1	MED_1QQ = 1	Code temporary variable to 1 so that "took stomach remedies on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1RR = 0	(MED_1RR = 2, NA)	Code temporary variable to 0 so that "did not take laxatives on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1RR = 1	MED_1RR = 1	Code temporary variable to 1 so that "took laxatives on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1TT = 0	(MED_1TT = 2, NA)	Code temporary variable to 0 so that "did not take hormones for menopause or aging symptoms on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1TT = 1	MED_1TT = 1	Code temporary variable to 1 so that "took hormones for menopause or aging symptoms on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1UU = 0	(MED_1UU = 2, NA)	Code temporary variable to 0 so that "did not take thyroid medication on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1UU = 1	MED_1UU = 1	Code temporary variable to 1 so that "took thyroid medication on a daily basis" can be counted in the sum of the different medications used everyday.
MEDT1VV = 0	(MED_1VV = 2, NA)	Code temporary variable to 0 so that "did not take any other medication on a daily basis" does not count in the sum of the different medications used everyday.
MEDT1VV = 1	MED_1VV = 1	Code temporary variable to 1 so that "took any other medication on a daily basis" can be counted in the sum of the different medications used everyday.

## Specifications

Value	Condition(s)	Description	Notes
99	(MED_1AA = DK, RF, NS) or (MED_1BB = DK, RF, NS) or (MED_1CC = DK, RF, NS) or (MED_1DD = DK, RF, NS) or (MED_1EE = DK, RF, NS) or (MED_1GG = DK, RF, NS) or (MED_1II = DK, RF, NS) or (MED_1JJ = DK, RF, NS) or (MED_1LL = DK, RF, NS) or (MED_1MM = DK, RF, NS) or (MED_1PP = DK, RF, NS) or (MED_1QQ = DK, RF, NS) or (MED_1RR = DK, RF, NS) or	At least one required question was not answered (don't know, refusal, not stated)	NS

	(MED_1TT = DK, RF, NS) or (MED_1UU = DK, RF, NS) or (MED_1VV = DK, RF, NS)		
MEDT1AA + MEDT1BB + MEDT1CC + MEDT1DD + MEDT1EE + MEDT1GG + MEDT1II + MEDT1JJ + MEDT1LL + MEDT1MM + MEDT1PP + MEDT1QQ + MEDT1RR + MEDT1TT + MEDT1UU + MEDT1VV	(MEDT1AA = 0, 1) and (MEDT1BB = 0, 1) and (MEDT1CC = 0, 1) and (MEDT1DD = 0, 1) and (MEDT1EE = 0, 1) and (MEDT1GG = 0, 1) and (MEDT1II = 0, 1) and (MEDT1JJ = 0, 1) and (MEDT1LL = 0, 1) and (MEDT1MM = 0, 1) and (MEDT1PP = 0, 1) and (MEDT1QQ = 0, 1) and (MEDT1RR = 0, 1) and (MEDT1TT = 0, 1) and (MEDT1UU = 0, 1) and (MEDT1VV = 0, 1)	Number of different types of medication a respondent has used everyday in the past month	(min: 0; max: 16) Maximum for men is 15

### 3 ) Flag Indicating Medication Use (Past Month)

<b>Variable name:</b>	MEDF1
<b>Based on:</b>	CCC_073, MED_1A, MED_1B, MED_1C, MED_1D, MED_1E, MED_1G, MED_1I, MED_1J, MED_1L, MED_1M, MED_1P, MED_1Q, MED_1R, MED_1T, MED_1U, MED_1V
<b>Description:</b>	This variable indicates whether or not the respondent took prescription or over-the-counter medications in the month prior to the interview.
<b>Note:</b>	The list of medications differs slightly from previous CCHS cycles.

#### Specifications

Value	Condition(s)	Description	Notes
9	(CCC_073 = DK, RF, NS) or (MED_1A = DK, RF, NS) or (MED_1B = DK, RF, NS) or (MED_1C = DK, RF, NS) or (MED_1D = DK, RF, NS) or (MED_1E = DK, RF, NS) or (MED_1G = DK, RF, NS) or (MED_1I = DK, RF, NS) or (MED_1J = DK, RF, NS) or (MED_1L = DK, RF, NS) or (MED_1M = DK, RF, NS) or (MED_1P = DK, RF, NS) or (MED_1Q = DK, RF, NS) or (MED_1R = DK, RF, NS) or (MED_1T = DK, RF, NS) or (MED_1U = DK, RF, NS) or (MED_1V = DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

1	CCC_073 = 1 or MED_1A = 1 or MED_1B = 1 or MED_1C = 1 or MED_1D = 1 or MED_1E = 1 or MED_1G = 1 or MED_1I = 1 or MED_1J = 1 or MED_1L = 1 or MED_1M = 1 or MED_1P = 1 or MED_1Q = 1 or MED_1R = 1 or MED_1T = 1 or MED_1U = 1 or MED_1V = 1	At least one medication used in the past month
2	(CCC_073 = 2, NA) and MED_1A = 2 and MED_1B = 2 and MED_1C = 2 and MED_1D = 2 and MED_1E = 2 and MED_1G = 2 and MED_1I = 2 and MED_1J = 2 and MED_1L = 2 and MED_1M = 2 and MED_1P = 2 and MED_1Q = 2 and MED_1R = 2 and (MED_1T = 2, NA) and MED_1U = 2 and MED_1V = 2	No medication used in the past month

## Nutritional risk (2 DVs)

The Seniors in the Community Risk Evaluation for Eating and Nutrition II - Abbreviated (SCREEN II-AB) is an 8-item nutritional risk screening index designed to identify risk for impaired nutritional states in community-living older adults. The questions ask about the respondents' eating habits on a typical day. The questions and scoring are developed and copyrighted by Dr. Heather Keller, University of Guelph, Ontario.

Each response category of each SCREEN II-AB item is assigned a score. The lower the summed score across all items, the greater the nutritional risk. The maximum score when all items are summed is 48, with a cut off point of < 38 indicating high nutritional risk.

The original instrument was developed and validated for those aged 50 or older.

This variable creates an index of nutritional risk where higher values indicate LOWER nutritional risk. A value is assigned to each response category for the 10 component variables corresponding to the 8 items of SCREEN II-AB. The values are summed across variables to create the index.

Note that SCREEN II-AB item 1 was asked through 2 questions (NUR\_Q01 and NUR\_Q02) because of differences in the mode of administration. Similarly, SCREEN II-AB item 8 was asked through 3 questions (NUR\_Q09, NUR\_Q10, NUR\_Q11).

This DV has been created in accordance with instructions provided by the author (SCREENII-AB Score© 2004).

This variable classifies respondents according to whether or not they are at high nutritional risk. The cut-point of 38 represents the SCREEN II Abbreviated (interviewer-administered) cut-point for "high nutritional risk".

### 1 ) High Nutritional Risk

**Variable name:** NURDHNR

**Based on:** NURDSCR

**Description:** This variable classifies respondents according to whether or not they are at high nutritional risk. The cut-point of 38 represents the SCREEN II Abbreviated (interviewer-administered) cut-point for "high nutritional risk".

**Note:** This DV has been created in accordance with instructions provided by the author (SCREEN Scoring Guide© 2004).

#### Specifications

Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - Proxy interview	
99	NURDSCR = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
		NUR_01 = DK is an exception (valid response)	
0	NURDSCR >= 38	Not at high nutritional risk	
1	NURDSCR < 38	High nutritional risk	

### 2 ) Nutritional Risk - Score

**Variable name:** NURDSCR

**Based on:** ADM\_PRX, NUR\_01, NUR\_02, NUR\_03, NUR\_04, NUR\_05, NUR\_06, NUR\_07, NUR\_08, NUR\_10, NUR\_11

**Description:** This variable creates an index of nutritional risk where higher values indicate LOWER nutritional risk. A value is assigned to each response category for the 10 component variables corresponding to the 8 items of SCREEN II-AB. The values are summed across variables to create the index.

Note that SCREEN II-AB item 1 was asked through 2 questions (NUR\_Q01 and NUR\_Q02) because of differences in the mode of administration. Similarly, SCREEN II-AB item 8 was asked through 3 questions (NUR\_Q09, NUR\_Q10, NUR\_Q11).

**Note:** This DV has been created in accordance with instructions provided by the author (SCREENII-AB Score© 2004).

#### Temporary Reformat

Value	Condition(s)	Description	Notes
<b>NURT01</b>			
0	NUR_01 = 1 or NUR_01 = 2	Lose or gain weight	
0	NUR_01 = DK	Don't know if weight has changed	
8	NUR_01 = 3	About the same weight	
<b>NURT02</b>			
0	NUR_01 = 3 or NUR_01 = DK	NUR_02 is skipped	
0	NUR_02 = 1	Lose or gain more than 10 pounds	
2	NUR_02 = 2	Lose or gain between 6 to 10 pounds	
4	NUR_02 = 3	Lose or gain about 5 pounds	
8	NUR_02 = 4	Lose or gain less than 5 pounds	
<b>NURT03</b>			
0	NUR_03 = 1	Skip meals almost every day	
2	NUR_03 = 2	Skip meals often	
4	NUR_03 = 3	Skip meals sometimes	
8	NUR_03 = 4	Never or rarely skip meals	
<b>NURT04</b>			
0	NUR_04 = 4	Poor appetite	
4	NUR_04 = 3	Fair appetite	
6	NUR_04 = 2	Good appetite	
8	NUR_04 = 1	Very good appetite	
<b>NURT05</b>			
0	NUR_05 = 1	Often or always choke/have pain swallowing	
2	NUR_05 = 2	Sometimes choke/have pain swallowing	
6	NUR_05 = 3	Rarely choke/have pain swallowing	
8	NUR_05 = 4	Never choke, no pain swallowing	
<b>NURT06</b>			
0	NUR_06 = 7	Eat less than 2 servings of fruit and vegetables a day	
1	NUR_06 = 6	Eat 2 servings of fruit and vegetables a day	
2	NUR_06 = 5	Eat 3 servings of fruit and vegetables a day	
3	NUR_06 = 4	Eat 4 servings of fruit and vegetables a day	
4	NUR_06 = 1 or NUR_06 = 2 or NUR_06 = 3	Eat 5 or more servings of fruit and vegetables a day	
<b>NURT07</b>			
0	NUR_07 = 5	Drink less than 2 cups a day	
1	NUR_07 = 4	Drink about 2 cups a day	
2	NUR_07 = 3	Drink 3 to 4 cups a day	
3	NUR_07 = 2	Drink 5 to 7 cups a day	
4	NUR_07 = 1	Drink 8 or more cups a day	
<b>NURT08</b>			
0	NUR_08 = 4	Never or rarely eat with someone	
2	NUR_08 = 3	Sometimes eat with someone	

3	NUR_08 = 2	Often eat with someone
4	NUR_08 = 1	Almost always eat with someone
<b>NURT10</b>		
0	NUR_09 = 2	NUR_10 is skipped
0	NUR_09 = 1 and NUR_10 = 3	Usually find cooking a chore
2	NUR_09 = 1 and NUR_10 = 2	Sometimes find cooking a chore
4	NUR_09 = 1 and NUR_10 = 1	Enjoy cooking
<b>NURT11</b>		
0	NUR_09 = 1	NUR_11 is skipped
0	NUR_09 = 2 and NUR_11 = 2	Not satisfied with food prepared by others
4	NUR_09 = 2 and NUR_11 = 1	Satisfied with food prepared by others

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - Proxy interview	NS
99	NUR_01 = RF, NS or NUR_02 = DK, RF or NUR_03 = DK, RF, NS or NUR_04 = DK, RF, NS or NUR_05 = DK, RF, NS or NUR_06 = DK, RF, NS or NUR_07 = DK, RF, NS or NUR_08 = DK, RF, NS or NUR_10 = DK, RF, NS or NUR_11 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)  NUR_01 = DK is an exception (valid response)	NS
NURT01 + NURT02 + NURT03 + NURT04 + NURT05 + NURT06 + NURT07 + NURT08 + NURT10 + NURT11	0 <= NURT01 <= 8 and 0 <= NURT02 <= 8 and 0 <= NURT03 <= 8 and 0 <= NURT04 <= 8 and 0 <= NURT05 <= 8 and 0 <= NURT06 <= 4 and 0 <= NURT07 <= 4 and 0 <= NURT08 <= 4 and 0 <= NURT10 <= 4 and 0 <= NURT11 <= 4		min: 0; max: 48

**Note finale :**

References:

Keller HH, Goy R, Kane S-L. (2005). Validity and reliability of SCREEN II (Seniors in the Community: Risk Evaluation for Eating and Nutrition- version II). Eur J Clin Nutr, 59:1149-1157.

Beath H, Keller HH. (2007). Nutrition screen showed good agreement when self- and interviewer-administered. J Clin Epi., 60: 1085-1089.

## Oral health 3 (2 DVs)

### 1 ) Daily Flossing

**Variable name:** OH3DFLO

**Based on:** OH3\_07, OH3\_07A

**Description:** This variable indicates the usual number of times per day the respondent flosses his/her teeth.

Specifications			
Value	Condition(s)	Description	Notes
99.9	(OH3_07 = DK, RF, NS) or (OH3_07A = NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
99.6	OH3_02 = 2 and OH3_03 = 2	Population exclusion - Does not have own teeth and does not have dentures/false teeth	NA
OH3_07	OH3_07A = 1	Number of times/day	
OH3_07 / 7	OH3_07A = 2	Number of times/day (reported "times per week")	Rounded to one decimal place
OH3_07 / 30	OH3_07A = 3	Number of times/day (reported "times per month")	Rounded to one decimal place
OH3_07 / 365	OH3_07A = 4	Number of times/day (reported "times per year")	Rounded to one decimal place
0	OH3_07 = 0	Never flosses teeth	

### 2 ) Daily Brushing

**Variable name:** OH3DBRU

**Based on:** OH3\_06, OH3\_06A

**Description:** This variable indicates the usual number of times per day the respondent brushes his/her teeth and/or dentures.

Specifications			
Value	Condition(s)	Description	Notes
99.9	(OH3_06 = DK, RF, NS) or (OH3_06A = NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
99.6	OH3_02 = 2 and OH3_03 = 2	Population exclusion - Does not have own teeth and does not have dentures/false teeth	NA
OH3_06	OH3_06A = 1	Number of times/day	
OH3_06 / 7	OH3_06A = 2	Number of times/day (reported "times per week")	Rounded to one decimal place
OH3_06 / 30	OH3_06A = 3	Number of times/day (reported "times per month")	Rounded to one decimal place
OH3_06 / 365	OH3_06A = 4	Number of times/day (reported "times per year")	Rounded to one decimal place
0	OH3_06 = 0	Never brushes teeth and/or dentures	

## Home ownership (2 DVs)

### 1 ) Approximate Home Equity

**Variable name:** OWNDHEQ

**Based on:** OWN\_01, OWN\_02, OWN\_03A, OWN\_04A

**Description:** This variable provides an indication of the home equity, which is an indicator of financial security. For this survey, home equity is defined as the difference between the price for which a home could be sold (market value) and the mortgage.

This variable only provides an approximate home equity value for two reasons:

- 1) The amounts are self-reported and are the best estimate respondents could provide at the time of the interview. The respondent may not be the most knowledgeable person in the household to answer financial questions. It could be particularly difficult to estimate the market value of a home if they are no plans to sell it.
- 2) The information about any other debts registered against the home, other than the mortgage, is missing.
- 3) For respondents who provided amounts in selected categories (OWN\_03B and OWN\_04B), the home equity is not estimated.

Specifications			
Value	Condition(s)	Description	Notes
99999996	OWN_01= 2, 3	Population exclusion - dwelling rented or other	NA
99999999	OWN_01 = (DK, RF, NS) or OWN_02 = (DK, RF, NS) or OWN_03A = (DK, RF, NS) or OWN_04A = (DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
OWN_04A - OWN_03A	OWN_02 = 1	Approximate home equity	Mortgage
OWN_04A	OWN_02 = 2	Approximate home equity	No mortgage

### 2 ) Flag for Tenure of Dwelling

**Variable name:** OWNFTEN

**Based on:** OWN\_01

**Description:** This variable indicates whether the dwelling is owned by the respondent or the respondent's spouse/partner.

Specifications			
Value	Condition(s)	Description	Notes
9	OWN_01 = DK, RF, NS	The required question was not answered (don't know, refusal, not stated)	NS
1	OWN_01 = 2 or 3	Not owned by the respondent or the respondent's spouse/partner.	
2	OWN_01 = 1	Owned by the respondent or the respondent's spouse/partner	



## Physical activities 2 (14 DVs)

The Physical Activity Scale for the Elderly (PASE) is a validated and copyrighted instrument (1991) developed by the New England Research Institutes (NERI) to provide an overall assessment of physical activity levels in older persons. The instrument asks about self-reported occupational, household and leisure activity items over the past 7 days.

The PASE score (PA2DSCR) is calculated based on 12 activities. It should be noted that responses to the questions about sitting activities (PA2\_01A, PA2\_01B and PA2\_01C) are not scored. The 12 activities included in the score are:

PA2\_02A - Walks outside home or yard  
 PA2\_03A - Light sport / recreational activities  
 PA2\_04A - Moderate sport / recreational activities  
 PA2\_05A - Strenuous sport / recreational activities  
 PA2\_06A - Muscle strength / endurance exercises  
 PA2\_07 - Light housework  
 PA2\_08 - Heavy housework or chores  
 PA2\_09A - Home repairs  
 PA2\_09B - Lawn work or yard care  
 PA2\_09C - Outdoor gardening  
 PA2\_09D - Caring for another person  
 PA2\_10A - Work for pay or as a volunteer

The PASE scores are calculated in 3-steps in accordance with the instruction manual accompanying the PASE instrument. New England Research Institutes, Inc. 1991. PASE-Physical Activity Scale for the Elderly: Administration and Scoring Instruction Manual. Watertown, MA.

### Step 1:

Temporary reformat for the average number of days per week engaged in walking, light sport / recreational activities, moderate sport / recreational activities, strenuous sport / recreational activities, muscle strength / endurance exercises (PA2TDAY2 to PA2TDAY6) and the average duration (PA2THRS2 to PA2THRS6).

### Step 2:

Calculation of the average number of hours per day (PA2DAV02, PA2DAV03, PA2DAV04, PA2DAV05, PA2DAV06) and flag for participation for activities for which frequency and duration were not asked (PA2FP07, PA2FP08, PA2FP9A, PA2FP9B, PA2FP9C, PA2FP9D and PA2DAV10).

### Step 3:

Calculation of the total PASE score (PASDSCR). This is the final variable that should be used for analysis.

Several studies using the PASE instrument have used the mean and standard deviation for analysis; one has used quartiles.

More information about the instrument can be found at <http://www.neriscience.com>. Please see the CCHS - Healthy Aging User Guide for a description of the differences between the original instrument and CCHS - Healthy Aging.

### Sources:

New England Research Institutes, Inc. 1991. PASE-Physical Activity Scale for the Elderly: Administration and Scoring Instruction Manual. Watertown, MA.

Washburn RA, Smith KW, Jette AM, Janney CA. The Physical Activity Scale for the Elderly (PASE): Development and Evaluation. Journal of Clinical Epidemiology. 1993. 46(2): 153-162.

### Temporary Reformat

Value	Condition(s)	Description	Notes
<b>PA2TDAY2</b>			
9.9	PA2_02A = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Walking
0	PA2_02A = 1	Did not report the activity	Walking
1.5	PA2_02A = 2	Calculate average number of days (1-2 days)	Walking
3.5	PA2_02A = 3	Calculate average number of days (3-4 days)	Walking
6	PA2_02A = 4	Calculate average number of days (5-7 days)	Walking
<b>PA2TDAY3</b>			
9.9	PA2_03A = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Light sport / recreational activities
0	PA2_03A = 1	Did not report the activity	Light sport / recreational activities
1.5	PA2_03A = 2	Calculate average number of days (1-2 days)	Light sport / recreational activities

3.5	PA2_03A = 3	Calculate average number of days (3-4 days)	Light sport / recreational activities
6	PA2_03A = 4	Calculate average number of days (5-7 days)	Light sport / recreational activities
<b>PA2TDAY4</b>			
9.9	PA2_04A = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Moderate sport / recreational activities
0	PA2_04A = 1	Did not report the activity	Moderate sport / recreational activities
1.5	PA2_04A = 2	Calculate average number of days (1-2 days)	Moderate sport / recreational activities
3.5	PA2_04A = 3	Calculate average number of days (3-4 days)	Moderate sport / recreational activities
6	PA2_04A = 4	Calculate average number of days (5-7 days)	Moderate sport / recreational activities
<b>PA2TDAY5</b>			
9.9	PA2_05A = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Strenuous sport / recreational activities
0	PA2_05A = 1	Did not report the activity	Strenuous sport / recreational activities
1.5	PA2_05A = 2	Calculate average number of days (1-2 days)	Strenuous sport / recreational activities
3.5	PA2_05A = 3	Calculate average number of days (3-4 days)	Strenuous sport / recreational activities
6	PA2_05A = 4	Calculate average number of days (5-7 days)	Strenuous sport / recreational activities
<b>PA2TDAY6</b>			
9.9	PA2_06A = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Muscle strength / endurance exercises
0	PA2_06A = 1	Did not report the activity	Muscle strength / endurance exercises
1.5	PA2_06A = 2	Calculate average number of days (1-2 days)	Muscle strength / endurance exercises
3.5	PA2_06A = 3	Calculate average number of days (3-4 days)	Muscle strength / endurance exercises
6	PA2_06A = 4	Calculate average number of days (5-7 days)	Muscle strength / endurance exercises
<b>PA2THRS2</b>			
9.9	PA2_02B = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Walking
0	PA2_02B = NA (96)	Valid skip - Question not asked - Did not report the activity	Walking
0.5	PA2_02B = 1 or PA2_02B = 2	Calculate average duration (less than 30 min. or 30 minutes but less than 1 hour)	Walking
1.5	PA2_02B = 3	Calculate the average duration (1 hour but less than 2 hours)	Walking
3	PA2_02B = 4	Calculate average duration (2 hours but less than 4 hours)	Walking

5	PA2_02B = 5	Calculate average duration (4 hours or more)	Walking
<b>PA2THRS3</b>			
9.9	PA2_03C = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Light sport / recreational activities
0	PA2_03C = NA (96)	Valid skip - Question not asked - Did not report the activity	Light sport / recreational activities
0.5	PA2_03C = 1 or PA2_03C = 2	Calculate average duration (less than 30 min. or 30 minutes but less than 1 hour)	Light sport / recreational activities
1.5	PA2_03C = 3	Calculate average duration (1 hour but less than 2 hours)	Light sport / recreational activities
3	PA2_03C = 4	Calculate average duration (2 hours but less than 4 hours)	Light sport / recreational activities
5	PA2_03C = 5	Calculate average duration (4 hours or more)	Light sport / recreational activities
<b>PA2THRS4</b>			
9.9	PA2_04C = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Moderate sport / recreational activities
0	PA2_04C = NA (96)	Valid skip - Question not asked - Did not report the activity	Moderate sport / recreational activities
0.5	PA2_04C = 1 or PA2_04C = 2	Calculate average duration (less than 30 min. or 30 minutes but less than 1 hour)	Moderate sport / recreational activities
1.5	PA2_04C = 3	Calculate average duration (1 hour but less than 2 hours)	Moderate sport / recreational activities
3	PA2_04C = 4	Calculate average duration (2 hours but less than 4 hours)	Moderate sport / recreational activities
5	PA2_04C = 5	Calculate average duration (4 hours or more)	Moderate sport / recreational activities
<b>PA2THRS5</b>			
9.9	PA2_05C = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Strenuous sport / recreational activities
0	PA2_05C = NA (96)	Valid skip - Question not asked - Did not report the activity	Strenuous sport / recreational activities
0.5	PA2_05C = 1 or PA2_035C = 2	Calculate average duration (less than 30 min. or 30 minutes but less than 1 hour)	Strenuous sport / recreational activities
1.5	PA2_05C = 3	Calculate average duration (1 hour but less than 2 hours)	Strenuous sport / recreational activities
3	PA2_05C = 4	Calculate average duration (2 hours but less than 4 hours)	Strenuous sport / recreational activities
5	PA2_05C = 5	Calculate average duration (4 hours or more)	Strenuous sport / recreational activities
<b>PA2THRS6</b>			
9.9	PA2_06C = DK, RF, NS	Required question was not answered (don't know, refusal or not stated)	Muscle strength / endurance exercises
0	PA2_06C = NA (96)	Valid skip - Question not asked - Did not report the activity	Muscle strength / endurance exercises

0.5	PA2_06C = 1 or PA2_06C = 2	Calculate average duration (less than 30 min. or 30 minutes but less than 1 hour)	Muscle strength / endurance exercises
1.5	PA2_06C = 3	Calculate average duration (1 hour but less than 2 hours)	Muscle strength / endurance exercises
3	PA2_06C = 4	Calculate average duration (2 hours but less than 4 hours)	Muscle strength / endurance exercises
5	PA2_06C = 5	Calculate average duration (4 hours or more)	Muscle strength / endurance exercises

### 1 ) Average Number of Hours per day - Walking - Temporary

**Variable name:** PA2DAV02

**Based on:** PA2TDAY2, PA2THRS2

**Description:** This variable indicates the average number of hours per day the respondent walked in the past 7 days. This temporary variable contributes to the PASE calculations.

Specifications			
Value	Condition(s)	Description	Notes
9.999999	PA2TDAY2 = 9.9 or PA2THRS2 = 9.9	At least one required question was not answered (don't know, refusal, not stated)	NS
(PA2TDAY2 x PA2THRS2) / 7	0 <= PA2TDAY2 <= 6 and 0 <= PA2THRS2 <= 5	Average number of hours per day: walking	(min: 0; max: 4.2857142)

### 2 ) Average Number of Hours per day - Light Sport / Recreational Activities - Temporary

**Variable name:** PA2DAV03

**Based on:** PA2TDAY3, PA2THRS3

**Description:** This variable indicates the average number of hours per day the respondent participated in light sport / recreational activities in the past 7 days. This temporary variable contributes to the PASE calculations.

Specifications			
Value	Condition(s)	Description	Notes
9.999999	PA2TDAY3 = 9.9 or PA2THRS3 = 9.9	At least one required question was not answered (don't know, refusal, not stated)	NS
(PA2TDAY3 x PA2THRS3) / 7	0 <= PA2TDAY3 <= 6 and 0 <= PA2THRS3 <= 5	Average number of hours per day: light sport / recreational activities	(min: 0; max: 4.2857142)

### 3 ) Average Number of Hours per day - Moderate Sport / Recreational Activities - Temporary

**Variable name:** PA2DAV04

**Based on:** PA2TDAY4, PA2THRS4

**Description:** This variable indicates the average number of hours per day the respondent participated in moderate sport / recreational activities in the past 7 days. This temporary variable contributes to the PASE calculations.

## Specifications

Value	Condition(s)	Description	Notes
9.9999999	PA2TDAY4 = 9.9 or PA2THRS4 = 9.9	At least one required question was not answered (don't know, refusal, not stated)	NS
(PA2TDAY4 x PA2THRS4) / 7	0 <= PA2TDAY4 <= 6 and 0 <= PA2THRS4 <= 5	Average number of hours per day: moderate sport / recreational activities	(min: 0; max: 4.2857142)

## 4 ) Average Number of Hours per day - Strenuous Sport / Recreational Activities - Temporary

**Variable name:** PA2DAV05

**Based on:** PA2TDAY5, PA2THRS5

**Description:** This variable indicates the average number of hours per day the respondent participated in strenuous sport / recreational activities in the past 7 days. This temporary variable contributes to the PASE calculations.

## Specifications

Value	Condition(s)	Description	Notes
9.9999999	PA2TDAY5 = 9.9 or PA2THRS5 = 9.9	At least one required question was not answered (don't know, refusal, not stated)	NS
(PA2TDAY5 x PA2THRS5) / 7	0 <= PA2TDAY5 <= 6 and 0 <= PA2THRS5 <= 5	Average number of hours per day: strenuous sport / recreational activities	(min: 0; max: 4.2857142)

## 5 ) Average Number of Hours per day - Muscle Strength / Endurance Exercises - Temporary

**Variable name:** PA2DAV06

**Based on:** PA2TDAY6, PA2THRS6

**Description:** This variable indicates the average number of hours per day the respondent participated in muscle strength / endurance exercise in the past 7 days. This temporary variable contributes to the PASE calculations.

## Specifications

Value	Condition(s)	Description	Notes
9.9999999	PA2TDAY6 = 9.9 or PA2THRS6 = 9.9	At least one required question was not answered (don't know, refusal, not stated)	NS
(PA2TDAY6 x PA2THRS6) / 7	0 <= PA2TDAY6 <= 6 and 0 <= PA2THRS6 <= 5	Average number of hours per day: muscle strength / endurance exercises	(min: 0; max: 4.2857142)

## 6 ) Flag for Participation - Light Housework - Temporary

**Variable name:** PA2FP07

**Based on:** PA2\_07

**Description:** This variable indicates whether light housework was reported in the past week.

## Specifications

Value	Condition(s)	Description	Notes
9	PA2_07 = DK, RF, NS	At least one required question was not answered	NS

(don't know, refusal, not stated)

0	PA2_07 = 2	Light housework was not reported in past week
1	PA2_07 = 1	Light housework was reported in the past week

## 7) Flag for Participation - Heavy Housework - Temporary

**Variable name:** PA2FP08

**Based on:** PA2\_08

**Description:** This variable indicates whether heavy housework was reported in the past week.

Specifications			
Value	Condition(s)	Description	Notes
9	PA2_08 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	PA2_08 = 2	Heavy housework was not reported in past week	
1	PA2_08 = 1	Heavy housework was reported in the past week	

## 8) Flag for Participation - Home Repairs - Temporary

**Variable name:** PA2FP9A

**Based on:** PA2\_09A

**Description:** This variable indicates whether the respondent reported home repairs in the last week.

Specifications			
Value	Condition(s)	Description	Notes
9	PA2_09A = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	PA2_09A = 2	Home repairs were not reported in past week	
1	PA2_09A = 1	Home repairs were reported in the past week	

## 9) Flag for Participation - Lawn Work or Yard Care - Temporary

**Variable name:** PA2FP9B

**Based on:** PA2\_09B

**Description:** This variable indicates whether the respondent reported lawn work or yard care in the past week.

Specifications			
Value	Condition(s)	Description	Notes
9	PA2_09B = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS

0	PA2_09B = 2	Lawn work or yard care was not reported in past week
1	PA2_09B = 1	Lawn work or yard care was reported in the past week

## 10) Flag for Participation - Outdoor Gardening - Temporary

**Variable name:** PA2FP9C

**Based on:** PA2\_09C

**Description:** This variable indicates whether the respondent reported outdoor gardening in the last week.

Specifications			
Value	Condition(s)	Description	Notes
9	PA2_09C = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	PA2_09C = 2	Outdoor gardening was not reported in past week	
1	PA2_09C = 1	Outdoor gardening was reported in the past week	

## 11) Flag for Participation - Caring for Another Person - Temporary

**Variable name:** PA2FP9D

**Based on:** PA2\_09D

**Description:** This variable indicates whether the respondent reported caring for another person in the last week.

Specifications			
Value	Condition(s)	Description	Notes
9	PA2_09D = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
0	PA2_09D = 2	Caring for another person was not reported in past week	
1	PA2_09D = 1	Caring for another person was reported in the past week	

## 12) Average Number of Hours - Work for Pay / Volunteer - Temporary

**Variable name:** PA2DAV10

**Based on:** PA2\_10A, PA2\_10B, PA2\_10C

**Description:** This variable indicates the average number of hours per day the respondent worked for pay or as a volunteer in the past 7 days.

Specifications			
Value	Condition(s)	Description	Notes
99.9999999	PA2_10A = (DK, RF, NS) or	At least one required question was not answered	NS

	PA2_10C = (DK, RF, NS) or ((PA2_10B = (DK, RF, NS) and PA2_10C = 2, 3, 4))	(don't know, refusal, not stated)	
0	PA2_10A = 2	Did not report work for pay or as a volunteer in the past week	
0	PA2_10A = 1 and PA2_10C = 1	Reported work for pay or as a volunteer in the past week, but low physical activity involved (mainly sitting with slight arm movements)	
PA2_10B / 7	PA2_10A = 1 and (PA2_10C = 2, 3, 4)	Number of hours worked per day (for pay or as a volunteer) during the past week where the job required at least sitting and standing and some walking	(min: 0.1428571; max: 17.142857)

### 13) PASE Score

**Variable name:** PA2DSCR

**Based on:** PA2DAV02, PA2DAV03, PA2DAV04, PA2DAV05, PA2DAV06, PA2FP07, PA2FP08, PA2FP9A, PA2FP9B, PA2FP9C, PA2FP9D and PA2DAV10.

**Description:** This variable calculates PASE scores by multiplying the time spent in each of the 12 activities by an activity weight and summing over all activities.

PASE Item	Type of Activity	Activity Weight
PA2_02A	Walk outside home or yard	20
PA2_03A	Light sport / recreational activities	21
PA2_04A	Moderate sport / recreational activities	23
PA2_05A	Strenuous sport / recreational activities	23
PA2_06A	Muscle strength / endurance exercises	30
PA2_07	Light housework	25
PA2_08	Heavy housework or chores	25
PA2_09A	Home repairs	30
PA2_09B	Lawn work or yard care	36
PA2_09C	Outdoor gardening	20
PA2_09D	Caring for another person	35
PA2_10A	Work for pay or as a volunteer	21

**Note:** This instrument was developed for people aged 65 and over. However, it has been used for younger age groups. The CCHS - Healthy Aging has administered this instrument to all respondents.

Responses to the question about sitting activities – PA2\_01A, PA2\_01B and PA2\_01C are not scored (as presented in the PASE manual).

The scores are rounded to the nearest integer. PASE scores may range from 0 to 400 or more.

The development of the activity weights is described in Washburn et al (1992).

Specifications			
Value	Condition(s)	Description	Notes
999	PA2DAV02 = 9.9999999 or PA2DAV03 = 9.9999999 or PA2DAV04 = 9.9999999 or PA2DAV05 = 9.9999999 or PA2DAV06 = 9.9999999 or PA2FP07 = 9 or PA2FP08 = 9 or PA2FP9A = 9 or PA2FP9B = 9 or PA2FP9C = 9 or PA2FP9D = 9 or PA2DAV10 = 99.9999999	At least one required question was not answered (don't know, refusal, not stated)	NS



(20 * PA2DAV02) + (21 * PA2DAV03) + (23 * PA2DAV04) + (23 * PA2DAV05) + (30 * PA2DAV06) + (25 * PA2FP07) + (25 * PA2FP08) + (30 * PA2FP9A) + (36 * PA2FP9B) + (20 * PA2FP9C) + (35 * PA2FP9D) + (21 * PA2DAV10)	0 <= PA2DAV02 <= 4.2857142 and 0 <= PA2DAV03 <= 4.2857142 and 0 <= PA2DAV04 <= 4.2857142 and 0 <= PA2DAV05 <= 4.2857142 and 0 <= PA2DAV06 <= 4.2857142 and PA2FP07 = 0, 1 and PA2FP08 = 0,1 and PA2FP9A = 0,1 and PA2FP9B = 0,1 and PA2FP9C = 0,1 and PA2FP9D = 0,1 and 0.0 <= PA2DAV10 <= 17.142857	Respondent's PASE score  Higher values indicate higher levels of physical activity	min: 0 max: <= 900.
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#### 14 ) Flag for Participant in Leisure Physical Activities

**Variable name:** PA2FLEI

**Based on:** PA2\_02A, PA2\_03A, PA2\_04A, PA2\_05A, PA2\_06A

**Description:** This is a flag variable which indicates whether the respondent reported participation in any leisure physical activities in the 7 days prior to the interview. Leisure physical activities include walking for pleasure or exercise, light sports, moderate sports, strenuous sports, and exercises to increase muscle strength and endurance.

**Note:** This derived variable is not part of the PASE-Physical Activity Scale for the Elderly. Although not identical, this derived variable has been created to allow some conceptual comparability with the CCHS 3.1 and CCHS 4.1 derived variable PACFLEI - Participant in Leisure Physical Activities.

##### Specifications

Value	Condition(s)	Description	Notes
9	PA2_02A = (DK, RF, NS) or PA2_03A = (DK, RF, NS) or PA2_04A = (DK, RF, NS) or PA2_05A = (DK, RF, NS) or PA2_06A = ((DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	PA2_02A = (2, 3, 4) or PA2_03A = (2, 3, 4) or PA2_04A = (2, 3, 4) or PA2_05A = (2, 3, 4) or PA2_06A = (2, 3, 4)	Reported participation in leisure physical activity over the past 7 days	
2	PA2_02A = 1 and PA2_03A = 1 and PA2_04A = 1 and PA2_05A = 1 and PA2_06A = 1	Did not report participation in leisure physical activity over the past 7 days	

## Reasons for retirement (5 DVs)

### 1 ) Flag for Subjective Retirement Status

**Variable name:** RETFSRS

**Based on:** RET\_01

**Description:** This flag variable indicates the self perception of retirement status (if the respondents consider themselves to be completely retired, partly retired or not retired).

**Note:** Respondents who are over age 85 are excluded from the population. It should be noted that the question was also intentionally asked to respondents who never worked.

#### Specifications

Value	Condition(s)	Description	Notes
6	DHH_AGE > 85	Population exclusion - age over 85	NA
9	RET_01 = DK, RF, NS	The required question was not answered (don't know, refusal, not stated)	NS
1	RET_01 = 1	Completely retired	
2	RET_01 = 2	Partly retired	
3	RET_01 = 3	Not retired	

### 2 ) Age at First Retirement

**Variable name:** RETDARE

**Based on:** DHH\_AGE, LBF\_02A, RET\_01, RET\_02, RET\_04A, RET\_04B, RET\_04C

**Description:** This variable indicates the approximate age at the first retirement (including only those who are retired or have previously retired). If the respondent does not remember the exact age, approximate age is recorded.

**Note:** The following respondents are excluded from the population:

- those who are over age 85;
- those who have never worked in the labour force;
- those who are in the labour force (not completely retired and never retired from a job).

#### Specifications

Value	Condition(s)	Description	Notes
996	DHH_AGE > 85	Population exclusion - age over 85	NA
996	LBF_02A=2	Population exclusion - has never worked in the labour force	NA
996	(RET_01 = 2 or RET_01 = 3) and (RET_02 = 2, DK, RF, NS)	Population exclusion - not completely retired and never retired	NA
999	LBF_02A = DK, RF, NS or RET_01 = DK, RF, NS or RET_04A = RF, NS or RET_04B = RF, NS or RET_04C = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated).  (Exception for RET_02)	NS
RET_04B	RET_04A =1	Exact age at first retirement	
RET_04C	RET_04A =2	Approximate age at first retirement	

### 3 ) Age at Partial Retirement

**Variable name:** RETDAPR

**Based on:** DHH\_AGE, LBF\_02A, RET\_01, RET\_02, RET\_06A, RET\_06B, RET\_06C

**Description:** This variable indicates the approximate age at the partial retirement for respondents who never retired before (see below for a clarification of partial retirement). If the respondent does not remember the exact age, approximate age is recorded.

**Note:** Partial retirement encompasses a variety of situations that could be summarized in two main paths: 1) returning to work after retirement and 2) as a transition to retirement: when someone is still working, but works less than before or part-time. This derived variable includes only the respondents who described themselves as partially retired and never retired, which is the second path. Respondents describing themselves as partially retired, but who have previously retired (path 1) are only asked age at first retirement (see RETDARE above).

The following respondents are excluded from the population:

- those who are over age 85;
- those who have never worked in the labour force;
- those who are completely retired or who have ever retired.
- those who are in the labour force (not completely retired and never retired from a job).

#### Specifications

Value	Condition(s)	Description	Notes
996	DHH_AGE > 85	Population exclusion - over age 85	NA
996	LBF_02A = 2	Population exclusion - has never worked in the labour force	NA
996	(RET_01 = 1 or RET_02 = 1) and (LBF_02A = 1, NA)	Population exclusion – completely retired or has ever retired	NA
996	RET_01 = 3 and RET_02 = 2, DK, RF, NS	Population exclusion – in the labour force	NA
999	LBF_02A = DK, RF, NS or RET_01 = DK, RF, NS or RET_06A = RF, NS or RET_06B = RF, NS or RET_06C = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated) (Exception for RET_02)	NS
RET_06B	RET_06A = 1	Exact age at partial retirement	
RET_06C	RET_06A = 2	Approximate age at partial retirement	

### 4 ) Retirement Status

**Variable name:** RETDRS

**Based on:** DHH\_AGE, LBFDWSL, IN2\_04C, IN2\_04F, IN2\_04G, IN2\_04H, IN2\_04I

**Description:** As a complement to the flag variable indicating the subjective retirement status (RETFERS), this derived variable is intended to provide a more objective definition of retirement status. This variable is operationalized following Statistics Canada's standard definition of retirement as follows:

To be considered completely retired, the respondent should meet the following three criteria:

1. Age over 54.

2. Not in the labour force. This is defined as "those who, during the reference week, were unwilling or unable to offer or supply labour services under conditions existing in their labour markets, that is, they were neither employed nor unemployed."

Source: Guide to the Labour Force Survey 2009. Statistics Canada - Catalogue no. 71-543-G  
<http://www.statcan.gc.ca/pub/71-543-g/71-543-g2009001-eng.pdf>

In this survey, this is operationalized using LBFDWSL (working status last week); however, as respondents aged over 74 were

excluded from the Labour Force Module, the second criteria could not be applied to them.

3. Receive 50% or more of income from retirement-like sources. The Income module provides information on sources of personal income, but the questions are about all sources of income and main source of income for the past 12 months. This criteria could not be exactly met, it is then modified to "received income from retirement-like sources" over the past 12 months, and IN2\_04 is used.

**Note:** Sources:  
Bowlby G. Defining Retirement. Perspectives on Labour and Income. February 2007, Vol. 8, no. 2. Statistics Canada — Catalogue no. 75-001-XIE. <http://www.statcan.gc.ca/pub/75-001-x/10207/9584-eng.htm>  
  
Statistics Canada web site. Definitions, data sources and methods <http://www.statcan.gc.ca/concepts/definitions/retirement-retraite-eng.htm>

Specifications			
Value	Condition(s)	Description	Notes
9	LBFDWSL = 9 or IN2_04C = DK, RF, NS IN2_04F = DK, RF, NS IN2_04G = DK, RF, NS IN2_04H = DK, RF, NS IN2_04I = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(DHH_AGE > 54) and (LBFDWSL = 5, 6, 7, 96) and (IN2_04C = 1 or IN2_04F = 1 or IN2_04G = 1 or IN2_04H = 1 or IN2_04I = 1)	Completely retired	(LBFDWS = 96 takes into account those aged over 74)
2	(DHH_AGE < 55) or (LBFDWSL = 1, 2, 3, 4) or (IN2_04C = 2 and IN2_04F = 2 and IN2_04G = 2 and IN2_04H = 2 and IN2_04I = 2)	Not completely retired (not retired or partially retired)	

## 5) Work After Retirement

**Variable name:** RETDWAR

**Based on:** DHH\_AGE, LBF\_02A, RET\_01, RET\_02, RET\_03, RET\_10, RET\_11

**Description:** This variable indicates whether the retired respondent went back to work/looked for work or not after retirement.

**Note:** The following respondents are excluded from the population:  
 - those who are over age 85;  
 - those who have never worked in the labour force;  
 - those who are in the labour force (not completely retired and never retired from a job).

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE > 85	Population exclusion – age over 85	NA
6	LBF_02A = 2	Population exclusion - has never worked in the labour force	NA
6	(RET_01 = 2, 3) and (RET_02 = 2, DK, RF, NS)	Population exclusion – not retired and never retired	NA
9	RET_01 = DK, RF, NS or RET_03 = DK, RF, NS or RET_10 = DK, RF, NS or RET_11 = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated) (Exception for RET_02)	NS

1	(RET_01 = 3 and RET_02 = 1) or RET_03 = 1 or RET_10 = 1 or RET_11 = 1	Went back to work or looked for work after retirement
2	RET_10 = 2 and RET_11 = 2	Did not go back work and did not look for work after retirement

## Retirement planning (1 DV)

### 1 ) Flag for Preparation Made for Retirement

**Variable name:** RPLFPRE

**Based on:** DHH\_AGE, LBF\_02A, RET\_01, RET\_02, RPL\_02A, RPL\_02B, RPL\_02C, RPL\_02D, RPL\_02E, RPL\_02F, RPL\_02G, RPL\_02H, RPL\_02I, RPL\_02J, RPL\_02K, RPL\_02L, RPL\_02M

**Description:** This derived variable indicates whether the respondent made some form of preparations for retirement or not.

**Note:** The following respondents are excluded from the population:  
 - those who are over age 85;  
 - those who have never worked in the labour force;  
 - those who are completely retired or who have ever retired from a job.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE > 85	Population exclusion - over age 85	NA
6	LBF_02A = 2	Population exclusion - has never worked in the labour force	NA
6	RET_01 = 1 or RET_02 = 1	Population exclusion - completely retired or has ever retired	NA
9	RPL_02A = DK, RF, NS or RPL_02B = DK, RF, NS or RPL_02C = DK, RF, NS or RPL_02D = DK, RF, NS or RPL_02E = DK, RF, NS or RPL_02F = DK, RF, NS or RPL_02G = DK, RF, NS or RPL_02H = DK, RF, NS or RPL_02I = DK, RF, NS or RPL_02J = DK, RF, NS or RPL_02K = DK, RF, NS or RPL_02L = Dk, RF, NS or RPL_02M = DK, RF, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	RPL_02A=1 or RPL_02B=1 or RPL_02C=1 or RPL_02D=1 or RPL_02E=1 or RPL_02F=1 or RPL_02G=1 or RPL_02H=1 or RPL_02I=1 or RPL_02J=1 or RPL_02K=1 or RPL_02M=1 or	Has made some preparations for retirement	
2	RPL_02L=1	Has made no preparations for retirement	

## Sample variables (2 DVs)

### 1 ) Permission to Share Data

**Variable name:** SAMDSHR

**Based on:** ADM\_Q04 (Share question from the main questionnaire [not on file]), PS\_Q01 (Share question from the Exit questionnaire [not on file]).

**Description:** This variable indicates whether or not the respondent agreed to share the information collected in the survey with the provincial ministry 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\_Q04 and PS\_Q01. The variable SAMDSHR is calculated from the responses to the Share questions in the main questionnaire (ADM\_Q04) and to the Exit questionnaire (PS\_Q01).

#### Specifications

Value	Condition(s)	Description	Notes
9	ADM_Q04 = NS and PS_Q01 = NS	Respondent was not asked to share information	NS
1	(ADM_Q04 = 1 and PS_Q01 <> 2) or (ADM_Q04 <> 2 and PS_Q01 = 1)	Respondent agreed to share information	
2	Else	Respondent did not agree to share information	

### 2 ) Permission to Link

**Variable name:** SAMDLNK

**Based on:** ADM\_Q01 (Link question from main questionnaire [not on file]), PL\_Q01 (link question from the Exit questionnaire [not on file]).

**Description:** This variable indicates whether or not the respondent agreed to allow their survey data to be linked with administrative records of their past and continuing use of health services, as stated in ADM\_Q01 and PL\_Q01. The variable SAMDLNK is calculated from the responses to the Link questions in the main questionnaire (ADM\_Q01) and the Exit questionnaire (PL\_Q01).

#### Specifications

Value	Condition(s)	Description	Notes
9	ADM_Q01 = NS and PL_Q01 = NS	Respondent was not asked the link questions.	NS
1	(ADM_Q01 = 1 and PL_Q01 <> 2) or (ADM_Q01 <> 2 and PL_Q01 = 1)	Respondent agreed to link information	
2	Else	Respondent did not agree to link information	

## Socio-demographic characteristics (10 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.

**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.

**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 an Aboriginal person are not asked SDC\_Q43A to SDC\_Q43M, 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, RF, NS	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 to Canada.

**Note:** Non-immigrants were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	SDC_3 = NA	Population exclusion - Non-immigrants	NA
999	(SDC_3 = DK, RF, 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\_41, SDC\_43A, SDC\_43B, SDC\_43C, SDC\_43D, SDC\_43E, SDC\_43F, SDC\_43G, SDC\_43H, SDC\_43I, SDC\_43J, SDC\_43K, SDC\_43M

**Description:** This variable indicates the cultural or racial background of the respondent. Since the middle of cycle 3.1, this variables excludes all respondents who identify as an Aboriginal person in SDC\_41. (The exclusion was introduced in the middle of cycle 3.1 to align with Census 2006 procedures).

**Note:** Prior to June 2005, 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 an Aboriginal person (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, RF, NS) or (SDC_41 = DK, RF, 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\_6H, 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 at home in childhood and still understood by the respondent.

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_6A = DK. RF. NS)	Required question was not answered (don't know.	NS
<b>May 2010</b>			

refusal, not stated)

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)
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## 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.

**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, RF, NS)	Required question was not answered (don't know, refusal, not stated)	NS
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)



## 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.

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_5A = DK, RF, 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.

**Note:** Non-immigrants were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	SDC_3 = NA	Population exclusion - Non-immigrants	NA
999	(SDC_3 = DK, RF, 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)]
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## 9) Immigration Flag

**Variable name:** SDCFIMM

**Based on:** SDC\_3

**Description:** This variable indicates if the respondent is an immigrant.

Specifications			
Value	Condition(s)	Description	Notes
9	(SDC_3 = DK, RF, 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:** SDCCCB

**Based on:** SDCCCB

**Description:** This variable classifies the respondent based on his/her country of birth in specific groups.

Specifications			
Value	Condition(s)	Description	Notes
99	(SDCCCB = 000, 995, DK, RF, 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	

## Satisfaction With Life Scale (2 DVs)

### 1 ) Satisfaction with Life Scale - Classification

**Variable name:** SLSDCLS

**Based on:** SLSDSCR

**Description:** This variable is a classification of the Satisfaction with Life Score (using summed aggregate score).

**Note:** This DV has been created in accordance with instructions accompanying the Satisfaction with Life Scale.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	SLSDSCR = 99	At least one required question was not answered (don't know, refusal, not stated)	NS
1	5 <= SLSDSCR <= 9	Extremely dissatisfied	
2	10 <= SLSDSCR <= 14	Dissatisfied	
3	15 <= SLSDSCR <= 19	Slightly dissatisfied	
4	SLSDSCR = 20	Neutral	
5	21 <= SLSDSCR <= 25	Slightly satisfied	
6	26 <= SLSDSCR <= 30	Satisfied	
7	31 <= SLSDSCR <= 35	Extremely satisfied	

### 2 ) Satisfaction with Life Scale - Score

**Variable name:** SLSDSCR

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

**Description:** This scale assesses satisfaction of life and is based on the 5-item satisfaction with life questionnaire developed by E. Diener, et al., 1985, Personality Assessment. The scale classifies the respondents according to their assessment of quality of their lives. Respondents were read five statements with which they agreed or disagreed using a 7 point scale.

This variable is an aggregate score from the five items summed up. Higher scores indicate greater satisfaction with life.

A description of the psychometric properties of the scale can be found in Pavot and Diener, 1993, Psychological Assessment. Further information on the original development and validation of the SWLS is provided in Diener et al., 1985.

**Note:** This DV has been created in accordance with instructions accompanying the Satisfaction with Life Scale.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	SLS_01 = (DK, RF, NS) or SLS_02 = (DK, RF, NS) or SLS_03 = (DK, RF, NS) or SLS_04 = (DK, RF, NS) or SLS_05 = (DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

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SLS_01 +	1 >= SLS_01 <= 7 and	Score obtained on the Satisfaction with Life scale.	(min: 5; max: 35)
SLS_02 +	1 >= SLS_02 <= 7 and		
SLS_03 +	1 >= SLS_03 <= 7 and	Higher values indicate higher satisfaction with life.	
SLS_04 +	1 >= SLS_04 <= 7 and		
SLS_05	1 >= SLS_05 <= 7		

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Reference: Diener, E et al. (1985). The satisfaction with life scale. Journal of Personality Assessment. 49: 71-75.

Pavot W and Diener E. (1993). Review of the satisfaction with life scale. Psychological Assessment. 5(2): 164-172.

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## Smoking (3 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.

**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, RF, NS) or (SMK_06A = DK, RF, NS) or (SMK_06C = DK, RF, NS) or (SMK_09A = DK, RF, NS) or (SMK_09C = DK, RF, NS) or (SMK_10A = DK, RF, NS) or (SMK_10C = DK, RF, 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.

**Note:** This variable includes lifetime cigarette consumption.

#### Specifications

Value	Condition(s)	Description	Notes
May 2010			120

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, RF, NS) or (SMK_01B = DK, RF, NS) or (SMK_202 = DK, RF, NS) or (SMK_05D = DK, RF, 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.

**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, RF, NS) or (SMK_203 = DK, RF, 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)



## Social participation (2 DVs)

### 1 ) Frequency of Community-Related Activity Participation (participant)

**Variable name:** SPADFRE

**Based on:** SPAFPAR, SPA\_01, SPA\_02, SPA\_03, SPA\_04, SPA\_05, SPA\_06, SPA\_07, SPA\_08

**Description:** This variable categorizes respondents by the frequency of their participation in any type of community-related activity during the past 12 months.

Specifications			
Value	Condition(s)	Description	Notes
9	SPAFPAR = 9	At least one required question was not answered (don't know, refusal, not stated)	NS
0	SPAFPAR = 2	Did not participate in a community-related activity	
1	(3 < SPA_01 <= 5 and 3 < SPA_02 <= 5 and 3 < SPA_03 <= 5 and 3 < SPA_04 <= 5 and 3 < SPA_05 <= 5 and 3 < SPA_06 <= 5 and 3 < SPA_07 <= 5 and 3 < SPA_08 <= 5) and (SPA_01 = 4 or SPA_02 = 4 or SPA_03 = 4 or SPA_04 = 4 or SPA_05 = 4 or SPA_06 = 4 or SPA_07 = 4 or SPA_08 = 4)	Participated in a community-related activity at least once a year (YEARLY)	
2	(2 < SPA_01 <= 5 and 2 < SPA_02 <= 5 and 2 < SPA_03 <= 5 and 2 < SPA_04 <= 5 and 2 < SPA_05 <= 5 and 2 < SPA_06 <= 5 and 2 < SPA_07 <= 5 and 2 < SPA_08 <= 5) and (SPA_01 = 3 or SPA_02 = 3 or SPA_03 = 3 or SPA_04 = 3 or SPA_05 = 3 or SPA_06 = 3 or SPA_07 = 3 or SPA_08 = 3)	Participated in a community-related activity at least once a month (MONTHLY)	

3	(1 < SPA_01 <= 5 and 1 < SPA_02 <= 5 and 1 < SPA_03 <= 5 and 1 < SPA_04 <= 5 and 1 < SPA_05 <= 5 and 1 < SPA_06 <= 5 and 1 < SPA_07 <= 5 and 1 < SPA_08 <= 5) and (SPA_01 = 2 or SPA_02 = 2 or SPA_03 = 2 or SPA_04 = 2 or SPA_05 = 2 or SPA_06 = 2 or SPA_07 = 2 or SPA_08 = 2)	Participated in a community-related activity at least once a week (WEEKLY)
4	SPA_01 = 1 or SPA_02 = 1 or SPA_03 = 1 or SPA_04 = 1 or SPA_05 = 1 or SPA_06 = 1 or SPA_07 = 1 or SPA_08 = 1	Participated in a community-related activity at least once a day (DAILY)

## 2 ) Flag for Participation in Community-Related Activities

**Variable name:** SPAFPAR

**Based on:** SPA\_01, SPA\_02, SPA\_03, SPA\_04, SPA\_05, SPA\_06, SPA\_07, SPA\_08

**Description:** This is a flag derived variable which indicates whether a respondent participated in community-related activities. A non-participant is defined as someone who has not engaged in any of the eight listed community-related activities at all in the past year. A participant is defined as someone who engaged in at least one type of community-related activity in the past year.

Specifications			
Value	Condition(s)	Description	Notes
9	SPA_01 = (DK, RF, NS) or SPA_02 = (DK, RF, NS) or SPA_03 = (DK, RF, NS) or SPA_04 = (DK, RF, NS) or SPA_05 = (DK, RF, NS) or SPA_06 = (DK, RF, NS) or SPA_07 = (DK, RF, NS) or SPA_08 = (DK, RF, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(1<= SPA_01 <= 4) or (1<= SPA_02 <= 4) or (1<= SPA_03 <= 4) or (1<= SPA_04 <= 4) or (1<= SPA_05 <= 4) or (1<= SPA_06 <= 4) or (1<= SPA_07 <= 4) or (1<= SPA_08 <= 4)	Participant	
2	(SPA_01= 5 and SPA_02 = 5 and SPA_03 = 5 and SPA_04 = 5 and SPA_05 = 5 and SPA_06 = 5 and SPA_07 = 5 and SPA_08 = 5)	Non-participant	



## 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 positively interact with.
- 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 (questions 3, 4, 8, 9, 13, 16, 17, 19).

Reference: Sherbourne, C.D. and A.L. Stewart, "The MOS Support Survey" (Medical Outcomes Study Social Support Survey), Social Sciences & Medicine; 32: 705 - 714

### Temporary Reformat

Value	Condition(s)	Description	Notes
<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 him/her and make them feel wanted are included.

**Note:** Higher scores indicate higher level of affection support.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT06 = DK, RF, NS) or (SSAT10 = DK, RF, NS) or (SSAT20 = DK, RF, 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 and 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 and informational support received by the respondent. Questions about whether the respondent has someone to listen and to advise them in a crisis, someone to give information and confide in and talk to, or someone who understands his/her problems are included.

**Note:** Higher values indicate more emotional and informational support.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT03 = DK, RF, NS) or (SSAT04 = DK, RF, NS) or (SSAT08 = DK, RF, NS) or (SSAT09 = DK, RF, NS) or (SSAT13 = DK, RF, NS) or (SSAT16 = DK, RF, NS) or (SSAT17 = DK, RF, NS) or (SSAT19 = DK, RF, 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 and informational 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 respondent's level of positive social interaction. Questions are included 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.

**Note:** Higher scores indicate higher level of positive social interaction.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT07 = DK, RF, NS) or (SSAT11 = DK, RF, NS) or (SSAT14 = DK, RF, NS) or (SSAT18 = DK, RF, 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 has 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.

**Note:** Higher scores indicate higher levels of tangible support.

Specifications			
Value	Condition(s)	Description	Notes
99	ADM_PRX = 1	Module not asked - proxy interview	NS
99	(SSAT02 = DK, RF, NS) or (SSAT05 = DK, RF, NS) or (SSAT12 = DK, RF, NS) or (SSAT15 = DK, RF, 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