

**Canadian Community Health Survey (CCHS)  
Cycle 1.1**

**Derived Variable (DV) Specifications**

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## Geographic Variables (1 DV)

### 1) Health Regions

**Variable name:** GEOADPMF

**Based on:** GEOA\_HR4

**Description:** This variable is a 5-digit number that identifies the sub-provincial health areas. It is based on the 4-digit health regions specified by the Provincial Ministries of Health. This reconstruction is as follows:

- positions 1-2 (first two positions of GEOA\_HR4);
- position 3 (value of "9");
- positions 4-5 (3rd, 4th position of GEOA\_HR4)

In order to ensure regions meet the minimum population size of 70,000, the following regions have been collapsed:

10904=1004,1005,1006;  
13904=1304,1305;  
13905=1306,1307;  
35939=3539,3554;  
35947=3547,3563;  
46915=4615,4650,4655;  
46920=4620,4625;  
46960=4660,4670,4680;  
47901=4701,4702,4703;  
47905=4705,4708;  
47907=4707,4710;  
47909=4709,4711;  
48903=4803,4805;  
48908=4808,4809;  
48914=4814 to 4817;  
59942=5942, 5943;  
59951=5951, 5953  
60901=6001,6101,6201;

## Dwelling and Household Record Variables (4 DVs)

### 1) One or more persons in household with age <= 5

**Variable name:** DHHAGLE5

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

**Description:** The following variable indicates whether or not there are people living within a household whose age is less than 6 years old.

Value of DHHAGLE5	Condition(s)	Explanation
0	DHHAGLE5 = none	
1	DHHAGLE5 = 1 or more	
NS	DHHAGLE5 = NS	Respondent didn't answer (don't know, refusal, not stated)

### 2) One or more persons in a household with age 6 to 11

**Variable name:** DHHAG611

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

**Description:** The following variable indicates whether or not there are people living within a household whose age is between 6 and 11 years old.

Value of DHHAG611	Condition(s)	Explanation
0	DHHAGL611 = none	
1	DHHAGL611 = 1 or more	
NS	DHHAGL611 = NS	Respondent didn't answer (don't know, refusal, not stated)

### 3) One or more persons in a household with age less than 12

**Variable name:** DHHAGL12

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

**Description:** The following variable indicates whether or not there are people living within a household whose age is less than 12 years old.

Value of DHHAGL12	Condition(s)	Explanation
0	DHHAGL12 = none	
1	DHHAGL12 = 1 or more	
NS	DHHAGL12 = NS	Respondent didn't answer (don't know, refusal, not stated)

#### 4) Living/family arrangement of selected respondent

**Variable name:** DHHAGLVG

**Based on:** RE\_REL of selected respondent only

**Description:** The following variable that describes the family relationships between the selected respondent and the rest of the household 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 the calculation of this variable.

#### Temporary Reformats

Reformat	Explanation
RELATIONSHIP CODES: (*as on the relationship file)  CODES            CATEGORY A0                Husband/Wife B0                Common Law Partner C0                Same-sex Partner D1                Birth Father/Mother D2                Step Father/Mother D3                Adoptive Father/Mother E1                Birth Child E2                Step Child E3                Adopted Child F1                Full Sister/Brother F2                Half Sister/Brother F3                Step Sister/Brother F4                Adopted Sister/Brother F5                Foster Sister/Brother G0                Foster Parent H0                Foster Child I0                Grandparent J0                Grandchild K0                In-Law L0                Other Related Y1                Single Z0                Unrelated	Relationship Codes used
A1=(Parental)      D1, D2, D3 B1=(Child)          E1, E2, E3 C1=(Sibling)        F1, F2, F3, F4 K1=(Other relative) I0, J0, K0, L0 L1=(Non-relative)   F5*, G0*, H0*, Z0 X1=(Spouse/Partner) A0, B0, C0 Z1=(Not stated)    NS	Temporary recodes to collapse relationships

\* All Foster relationships (foster sister/brother, parent, or child) have been recoded into the Other relationship category.



Value of DHHADLVG	Condition(s)	Explanation
1	DHHADHSZ = 1 Selected respondent lives alone. Household size=1.	Unattached Individual Living Alone
2	All RE_REL <> X1 and A1 The respondent lives with other people. S/he cannot have a marital/common-law or parental relationship but other relationships such as siblings are allowed.	Unattached Individual Living With Others
3	DHHADHSZ = 2, and RE_REL = X1 Selected respondent lives with spouse/partner only. Household size=2.	Spouse/Partner Living With Spouse/Partner
4	DHHADHSZ > 2 and One RE_REL = X1 and all other RE_REL = A1 Selected respondent lives with spouse/partner and child(ren).	Parent Living With Spouse/Partner And Children
5	All RE_REL = A1 Selected respondent lives with child(ren). No other relationships are permitted.	Single Parent Living With Children
6	DHHADHSZ = 2 and RE_REL = B1 or DHHADHSZ > 2 and One RE_REL = B1 and all other RE_REL = C1 Selected respondent is a child living with a single parent with or without siblings	Child Living With Single Parent with or without siblings
7	DHHADHSZ = 3 and All RE_REL = B1 or DHHADHSZ > 3 and Two RE_REL = B1 and all other RE_REL = C1 Selected respondent is a child living with two parents with or without siblings.	Child Living With Two Parents with or without siblings
8	Else	Other  Selected respondent lives in a household composition not classified above.
NS	Any RE_REL = Z1	Not Stated

## Education Variables (2 DVs)

### 1) Highest level of education – respondent, 4 levels

**Variable name:** EDUADR04

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

**Description:** The following variable describes the highest level of education acquired by the respondent.

Value of EDUADR04	Condition(s)	Explanation
1	[(EDUA_1 = 1 or 2) or EDUA_2 = 2] and EDUA_3 = 2	Less than secondary school graduation
2	EDUA_2 = 1 and EDUA_3 = 2	Secondary school graduation, no post-secondary education
3	EDUA_4 = 1	Some post-secondary education
4	EDUA_4 >= 2 and <= 6	Post-secondary degree/diploma
NS	(EDUA_2 = DK, R, or NS) or (EDUA_3 = DK, R, or NS) or (EDUA_4 = DK, R, or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation

### 2) Highest level of education – household, 4 levels

**Variable name:** EDUADH04

**Based on:** EDUADR04 for each member of the household

**Description:** The following variable describes the highest level of education acquired by any member of the household.

**Technical Specs:** Temporarily creates EDUADR04 for each member of the household (all PERSONID within SAMPLEID). Compare these values of EDUADR04 within the household and return the highest value. If any PERSONID has EDUADR04 of NS (not stated) then return NS. If all of EDUADR04 are NA (not applicable) then return NA.

Value of EDUADR04	Condition(s)	Explanation
1	[(EDUA_1 = 1 or 2) or EDUA_2 = 2] and EDUA_3 = 2	Less than secondary school graduation
2	EDUA_2 = 1 and EDUA_3 = 2	Secondary school graduation, no post-secondary education
3	EDUA_4 = 1	Some post-secondary education
4	EDUA_4 >= 2 and <= 6	Post-secondary degree/diploma
NS	(EDUA_2 = DK, R, or NS) or (EDUA_3 = DK, R, or NS) or (EDUA_4 = DK, R, or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation

## General Health (1 DV)

### 1) Health description index

**Variable name:** GENADHDI

**Based on:** GENA\_01

**Description:** The following variable describes the respondent's health status based on his or her own judgement. Higher scores indicate positive self-reported health status.

Value of GENADHDI	Condition(s)	Explanation
0	GENA_01 = 5	Poor
1	GENA_01 = 4	Fair
2	GENA_01 = 3	Good
3	GENA_01 = 2	Very good
4	GENA_01 = 1	Excellent
NS	GENA_01 > 6	Unknown

## Height/Weight (4 DVs)

### 1) Height (metres)

**Variable name:** HWTAGHT

**Based on:** HWTA\_2 and HWTA\_2A to HWTA\_2F.

**Description:** The following variable gives the height of the respondent in metres. For example, an individual who is 5 feet and 8 inches will have a height of 1.727 metres. The 1.727 is the midpoint of the range (1.715-1.739) around the height 5 feet and 8 inches. The range values were calculated as follows for an individual who is 5'8":  
 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. In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in table below:

Value of HWTAGHT	Condition	Explanation
1	(HWTA_2 = 3) and (HWTA_2C = 8)	HWTADHTM <= 1.118
2	(HWTA_2 = 3) and (HWTA_2C = 9)	HWTADHTM = 1.143
3	(HWTA_2 = 3) and (HWTA_2C = 10)	HWTADHTM = 1.168
4	(HWTA_2 = 3) and (HWTA_2C = 11)	HWTADHTM = 1.194
5	(HWTA_2 = 4) and (HWTA_2D = 0)	HWTADHTM = 1.219
6	(HWTA_2 = 4) and (HWTA_2D = 1)	HWTADHTM = 1.245
7	(HWTA_2 = 4) and (HWTA_2D = 2)	HWTADHTM = 1.27
8	(HWTA_2 = 4) and (HWTA_2D = 3)	HWTADHTM = 1.295
9	(HWTA_2 = 4) and (HWTA_2D = 4)	HWTADHTM = 1.321
10	(HWTA_2 = 4) and (HWTA_2D = 5)	HWTADHTM = 1.346
11	(HWTA_2 = 4) and (HWTA_2D = 6)	HWTADHTM = 1.372
12	(HWTA_2 = 4) and (HWTA_2D = 7)	HWTADHTM = 1.397
13	(HWTA_2 = 4) and (HWTA_2D = 8)	HWTADHTM = 1.422
14	(HWTA_2 = 4) and (HWTA_2D = 9)	HWTADHTM = 1.448
15	(HWTA_2 = 4) and (HWTA_2D = 10)	HWTADHTM = 1.473
16	(HWTA_2 = 4) and (HWTA_2D = 11)	HWTADHTM = 1.499
17	(HWTA_2 = 5) and (HWTA_2E = 0)	HWTADHTM = 1.524
18	(HWTA_2 = 5) and (HWTA_2E = 1)	HWTADHTM = 1.549
19	(HWTA_2 = 5) and (HWTA_2E = 2)	HWTADHTM = 1.575
20	(HWTA_2 = 5) and (HWTA_2E = 3)	HWTADHTM = 1.6
21	(HWTA_2 = 5) and (HWTA_2E = 4)	HWTADHTM = 1.626
22	(HWTA_2 = 5) and (HWTA_2E = 5)	HWTADHTM = 1.651
23	(HWTA_2 = 5) and (HWTA_2E = 6)	HWTADHTM = 1.676
24	(HWTA_2 = 5) and (HWTA_2E = 7)	HWTADHTM = 1.702
25	(HWTA_2 = 5) and (HWTA_2E = 8)	HWTADHTM = 1.727
26	(HWTA_2 = 5) and (HWTA_2E = 9)	HWTADHTM = 1.753
27	(HWTA_2 = 5) and (HWTA_2E = 10)	HWTADHTM = 1.778
28	(HWTA_2 = 5) and (HWTA_2E = 11)	HWTADHTM = 1.803
29	(HWTA_2 = 6) and (HWTA_2F = 0)	HWTADHTM = 1.829
30	(HWTA_2 = 6) and (HWTA_2F = 1)	HWTADHTM = 1.854
31	(HWTA_2 = 6) and (HWTA_2F = 2)	HWTADHTM => 1.88
<b>Collapsed</b>		
17	DHHA_SEX = 1 and DHHA_AGE => 15 and HWTADHTM <= 1.524	Males aged 15 years or greater with height less than or equal to 1.524
28	DHHA_SEX = 1 and DHHA_AGE => 12 and DHHA_AGE <= 14 and HWTADHTM => 1.803	Males aged 12 to 14 years with height greater than or equal to 1.803
31	DHHA_SEX = 1 and DHHA_AGE => 15 and HWTADHTM => 1.88	Males aged 15 years or greater with height greater than or equal to 1.880
5	DHHA_SEX = 2 and DHHA_AGE => 12 and DHHA_AGE <= 14 and HWTADHTM <= 1.219	Females aged 12 to 14 years with height less than or equal to 1.219
12	DHHA_SEX = 2 and DHHA_AGE => 15 and HWTADHTM <= 1.397	Females aged 15 years or greater with height less than or equal to 1.397
28	DHHA_SEX = 2 and DHHA_AGE => 12 and HWTADHTM => 1.803	Females aged 12 or greater with height greater than or equal to 1.803
NS	(HWTA_2 = DK, R, or NS) or (HWTA_2A = DK, R, or NS) or (HWTA_2B = DK, R, or NS) or (HWTA_2C = DK, R, or NS) or (HWTA_2D = DK, R, or NS) or (HWTA_2E = DK, R, or NS) or (HWTA_2F = DK, R, or NS)	Respondent did not answer (don't know, refusal, not stated) the questions

## 2) Weight (kilograms)

**Variable name:** HWTAGWTK

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

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

**Technical Specs:** Some values have been grouped as specified below.

Note:

Value of HWTAGWTK	Condition(s)	Explanation
HWTA_Q3	HW_N4 = 2	Weight already in kilograms
HWTA_Q3 x .45	HW_N4 = 1	Weight is in pounds, convert to kilograms

Value of HWTAGWTK	Sex	Age Range	Condition(s)	Minimum/Maximum Weight Value
27	Male	12-14	DHHA_SEX = 1 and DHHA_AGE => 12 and DHHA_AGE <=14 and HWTADWTK <= 27	<= 27
41	Male	15-19	DHHA_SEX = 1 and DHHA_AGE => 15 and DHHA_AGE <=19 and HWTADWTK <= 41	<= 41
50	Male	=>20	DHHA_SEX = 1 and DHHA_AGE => 20 and HWTADWTK <= 50	<= 50
106	Male	12-14	DHHA_SEX = 1 and DHHA_AGE => 12 and DHHA_AGE <=14 and HWTADWTK => 106	=> 106
130	Male	15-19	DHHA_SEX = 1 and DHHA_AGE => 15 and DHHA_AGE <= 19 and HWTADWTK >= 130	=> 130
137	Male	=>20	DHHA_SEX = 1 and DHHA_AGE => 20 and HWTADWTK => 137	=> 137
29	Female	12-14	DHHA_SEX = 2 and DHHA_AGE => 12 and DHHA_AGE <=14 and HWTADWTK <= 29	<= 29
40	Female	>15	DHHA_SEX = 2 and DHHA_AGE => 15 and HWTADWTK <= 40	<= 40
86	Female	12-14	DHHA_SEX = 2 and DHHA_AGE => 12 and DHHA_AGE <= 14 and HWTADWTK => 86	=> 86
113	Female	>15	DHHA_SEX = 2 and DHHA_AGE => 15 and HWTADWTK => 113	=> 113
NS			(HWTA_3 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated)

### 3) Body mass index

**Variable name:** HWTAGBMI

**Based on:** HWTAGHTM, HWTAGWTK

**Description:** The body mass index (BMI) is a quick and accurate method to determine health risk as it relates to body weight and height. Calculated for persons 20 to 64 years old, excluding pregnant women. BMI values have been regrouped to a minimum of 14 and a maximum of 58.

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

Value of HWTAGBMI	Condition(s)	Explanation
HWTAGWTK / (HWTADHTM × HWTADHTM) (Rounded to one decimal place) Minimum: 14; Maximum: 58	(HWTADHTM >= .914 and <= 2.108) and (HWTAGWTK > 0 and <= 260)	BMI calculated from height and weight values
NS	(HWTADHTM = NS) or HWTAGWTK = NS	Height and/or weight was not given
NA	DHHA_AGE < 20 or > 64	Respondent less than 20 or more than 64 years old
NA	MAMA_037 = 1	Respondent is pregnant

### 4) Standard weight

**Variable name:** HWTAGSW

**Based on:** HWTAGBMI

**Description:** The following variable classifies the respondent based on their BMI and indicates whether they are in the insufficient, acceptable, or overweight category.

Value of HWTAGSW	Condition(s)	Explanation
1	HWTAGBMI < 20.0	Underweight
2	HWTAGBMI >= 20.0 and < 25.0	Acceptable weight
3	HWTAGBMI >= 25.0	Overweight
NS	HWTAGBMI = NS	Not stated
NA	HWTAGBMI = NA	Not applicable

## Two-Week Disability (1 DV)

### Temporary Reformats

Reformat	Explanation
IF TWDA_2 = NA THEN TWDA_2 = 0	Reset NA values of TWDA_2 to 0.
IF TWDA_4 = NA THEN TWDA_4 = 0	Reset NA values of TWDA_4 to 0.

### 1) Disability days

**Variable name:** TWDADDDY

**Based on:** TWDA\_2, TWDA\_4

**Description:** The number of days in the last two weeks when the respondent stayed in bed or cut down in activities because of illness or injury.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of TWDADDDY	Condition(s)	Explanation
TWDA_2 + TWDA_4 (min: 0, max: 14)	(TWDA_2 < 15) and (TWDA_4 < 15)	The number of days in the last two weeks when the respondent stayed in bed or cut down on activities.
NS	(TWDA_2 = DK, R or NS) or (TWDA_4 = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation

## Health Care Utilization (3 DVs)

### 1) Number of consultations with medical doctor

**Variable name:** HCUAGMDC

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

**Description:** The following variable gives the number of consultations with a family doctor, paediatrician, general practitioner and/or any other medical doctor. The variable has been grouped according to "less than 31 consultations" and "31 or more".

Value of HCUAGMDC	Condition(s)	Explanation
HCUA_02A + HCUA_02C Min: 0, max: 31	(HCUA_02A >= 0 and <= 366) and (HCUA_02C >= 0 and <= 300)	Valid response codes for both questions – less than 31 consultations, and 31 or more consultations are grouped together
NS	(HCUA_02A = DK, R or NS) or (HCUA_02C = DK, R or NS)	Respondent didn't answer at least one question (don't know, refusal, not stated).

## 2) Consultations with any health professionals

**Variable name:** HCUAFHPC

**Based on:** HCUA\_02A, HCUA\_02B, HCUA\_02C, HCUA\_02D, HCUA\_02E, HCUA\_02F, HCUA\_02G, HCUA\_02H, HCUA\_02I, HCUA\_02J, CMHA\_01K

**Description:** The following variable describes whether or not the respondent consulted with any health professionals during the past 12 months.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of HCUAFHPC	Condition(s)	Explanation
1	(HCUA_02A > 0 and < NA) or (HCUA_02B > 0 and < NA) or (HCUA_02C > 0 and < NA) or (HCUA_02D > 0 and < NA) or (HCUA_02E > 0 and < NA) or (HCUA_02F > 0 and < NA) or (HCUA_02G > 0 and < NA) or (HCUA_02H > 0 and < NA) or (HCUA_02I > 0 and < NA) or (HCUA_02J > 0 and < NA) or (CMHA_01K = 1)	Respondent consulted a health professional at least once last year (includes mental health professionals)
2	(HCUA_02A = 0) and (HCUA_02B = 0) and (HCUA_02C = 0) and (HCUA_02D = 0) and (HCUA_02E = 0) and (HCUA_02F = 0) and (HCUA_02G = 0) and (HCUA_02H = 0) and (HCUA_02I = 0) and (HCUA_02J = 0) and (CMHA_01K = 2)	Respondent did not consult a health professional last year (includes mental health professionals)
NS	(HCUA_02A = DK, R or NS) or (HCUA_02B = DK, R or NS) or (HCUA_02C = DK, R or NS) or (HCUA_02D = DK, R or NS) or (HCUA_02E = DK, R or NS) or (HCUA_02F = DK, R or NS) or (HCUA_02G = DK, R or NS) or (HCUA_02H = DK, R or NS) or (HCUA_02I = DK, R or NS) or (HCUA_02J = DK, R or NS) or (CMHA_01K = DK, R or NS)	Respondent did not answer any of the questions, or respondent did not answer some of the questions and answered others with 0.

## 3) Consultations with alternative health providers

**Variable name:** HCUAG05L

**Based on:** HCUA\_05D, HCUA\_05E, UCUA\_05F, HCUA\_05G, HCUA\_05H, HCUA\_05I, HCUA\_05J, HCUA\_05K, HCUA\_05L

**Description:** The following variable describes whether or not the respondent consulted with any health professionals during the past 12 months.



Value of HCUAG05L	Condition(s)	Explanation
1	HCUA_05D = 1 or HCUA_05E = 1 or HCUA_05F = 1 or HCUA_05G = 1 or HCUA_05H = 1 or HCUA_05I = 1 or HCUA_05J = 1 or HCUA_05K = 1 or HCUA_05L = 1	Respondent consulted an alternative health professional at least once last year (includes Feldenkrais or Alexander, relaxation therapist, biofeedback, rolfer, herbalist, reflexologist, spiritual healer, religious healer, other)
2	HCUA_05D = 2 and HCUA_05E = 2 and HCUA_05F = 2 and HCUA_05G = 2 and HCUA_05H = 2 and HCUA_05I = 2 and HCUA_05J = 2 and HCUA_05K = 2 and HCUA_05L = 2	Respondent did not consult an alternative health professional last year
DK	HCUA_05D = DK and HCUA_05E = DK and HCUA_05F = DK and HCUA_05G = DK and HCUA_05H = DK and HCUA_05I = DK and HCUA_05J = DK and HCUA_05K = DK and HCUA_05L = DK	Don't know
R	HCUA_05D = R and HCUA_05E = R and HCUA_05F = R and HCUA_05G = R and HCUA_05H = R and HCUA_05I = R and HCUA_05J = R and HCUA_05K = R and HCUA_05L = R	Refusal
NS	HCUA_05D = NS and HCUA_05E = NS and HCUA_05F = NS and HCUA_05G = NS and HCUA_05H = NS and HCUA_05I = NS and HCUA_05J = NS and HCUA_05K = NS and HCUA_05L = NS	Not stated
NA	HCUA_05D = NA and HCUA_05E = NA and HCUA_05F = NA and HCUA_05G = NA and HCUA_05H = NA and HCUA_05I = NA and HCUA_05J = NA and HCUA_05K = NA and HCUA_05L = NA	Not applicable

## Restriction of Activities (3 DVs)

### 1) Cause of health problem

**Variable name:** RACAG5

**Based on:** RACA\_5

**Description:** The following variable indicates the cause of the health problem.

Value of RACAG5	Condition(s)	Explanation
1	1 <= RACA_5 <= 4	Injury (includes injury at home, sports or recreation, motor vehicle, work related)
2	RACA_5 = 7	Disease or illness
3	RACA_5 = 8	Aging
4	RACA_5 = 5 or RACA_5 = 6 or RACA_5 = 9 or RACA_5 = 10	Other(includes existed at birth, work environment, psychological/physical abuse, other)
NS	RACA_5 = DK, R or NS	Not stated
NA	RACA_5 = NA	Not applicable

### 2) Impact of health problems

**Variable name:** RACADIMP

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

**Description:** The following variable is a crude measure of the impact of long-term physical conditions, mental conditions and health problems on 3 principal domains of life: home, work or school, and other activities.

**Note:** This variable should not be used to describe the rate of disability or activity limitation in the population. The variable is derived from RACA\_2A, RACA\_2B and RACA\_2C. These questions, plus RACA\_1, were asked in the 2001 Census of Population to identify a sample for the 2001 post-censal Participation and Activity Limitation Survey (PALS). Data from PALS will be released in late 2002, at which time Statistics Canada will recommend a common approach to measuring disability and restriction of activity. Also, because of differences in question wording between the CCHS and National Population Health Survey (NPHS questions are 1991 Census questions), RACADIMP should **NOT** be compared to the NPHS variables RES\_FLG, RAC6F1, RAC8F1, or RAC0F1.

Value of RACADIMP	Condition(s)	Explanation
1	RACA_2A = 1 or RACA_2B = 1 or RACA_2C = 1	Sometimes
2	RACA_2A > 1 and RACA_2A = 2 or RACA_2B > 1 and RACA_2B = 2 or RACA_2C > 1 and RACA_2C = 2	Often
3	RACA_2A = 3 and (RACA_2B = 3 or 4) and RACA_2C = 3	Never
NS	(RACA_2A = DK, R or NS) or (RACA_2B = DK, R or NS) or (RACA_2C = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation

### 3) Need for help in series of tasks

**Variable name:** RACAF6

**Based on:** RACA\_6A, RACA\_6B, RACA\_6C, RACA\_6D, RACA\_6E, RACA\_6F

**Description:** Activity dependence refers to the need for help (for health reasons) with instrumental activities of daily living such as preparing meals, shopping for groceries or other necessities, doing everyday housework, doing heavy household chores (washing walls, yard work), and personal care (washing, dressing or eating, or moving about inside the house).

Value of RACAF6	Condition(s)	Explanation
1	(RACA_6A = 1) or (RACA_6B = 1) or (RACA_6C = 1) or (RACA_6D = 1) or (RACA_6E = 1) or (RACA_6F = 1)	The respondent needs help with at least one task.
2	(RACA_6A = 2) and (RACA_6B = 2) and (RACA_6C = 2) and (RACA_6D = 2) and (RACA_6E = 2) and (RACA_6F = 2)	The respondent doesn't need help.
NS	(RACA_6A = DK, R or NS) or (RACA_6B = DK, R or NS) or (RACA_6C = DK, R or NS) or (RACA_6D = DK, R or NS) or (RACA_6E = DK, R or NS) or (RACA_6F = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation

## Chronic Conditions (3 DVs)

### 1) Has other chronic condition

**Variable name:** CCCAG221

**Based on:** CCCA\_181, CCCA\_221, CCCA\_231, CCCA\_241

**Description:** CCCAG221 = 1 if the respondent reported one or more of the above conditions.

Value of CCCAG221	Condition(s)	Explanation
1	(CCCA_181 = 1) and/or (CCCA_221 = 1) and/or (CCCA_231 = 1) and/or (CCCA_241 = 1)	If respondent answered "Yes" to any one or more of the "Other chronic conditions", then make "1".
2	CCCA_181 = 0) and (CCCA_221 = 0) and (CCCA_231 = 0) and (CCCA_241 = 0)	The respondent does not have any "Other chronic conditions"
NS	(CCCA_181 = NA, DK, R or NS) or (CCCA_221 = DK, R or NS) or (CCCA_231 = NA, DK, R or NS) or (CCCA_241 = NA, DK, R or NS)	Respondent refused, did not know, did not state or question was not applicable in each of the conditions in the calculation

### 2) Has a chronic condition

**Variable name:** CCCAF1

**Based on:** CCCA\_011, CCCA\_021, CCCA\_031, CCCA\_041, CCCA\_051, CCCA\_061, CCCA\_071, CCCA\_081, CCCA\_91A, CCCA\_91B, CCCA\_101, CCCA\_111, CCCA\_121, CCCA\_131, CCCA\_141, CCCA\_151, CCCA\_161, CCCA\_171, CCCA\_191, CCCA\_201, CCCA\_211, CCCA\_251, CCCA\_261, CCCAG221

**Description:** The following variable represents whether or not the respondent had any chronic health conditions which were diagnosed by a health professional.

**Technical Specs:** Whether the respondent has any condition is based upon a "yes" to any condition.

Value of CCCAF1	Condition(s)	Explanation
1	(CCCA_011 = 1) or (CCCA_021 = 1) or (CCCA_031 = 1) or (CCCA_041 = 1) or (CCCA_051 = 1) or (CCCA_061 = 1) or (CCCA_071 = 1) or (CCCA_081 = 1) or (CCCA_91A = 1) or (CCCA_91B = 1) or (CCCA_101 = 1) or (CCCA_111 = 1) or (CCCA_121 = 1) or (CCCA_131 = 1) or (CCCA_141 = 1) or (CCCA_151 = 1) or (CCCA_161 = 1) or (CCCA_171 = 1) or (CCCA_191 = 1) or (CCCA_201 = 1) or (CCCA_211 = 1) or (CCCA_251 = 1) or (CCCA_261 = 1) or (CCCAG221 = 1)	Respondent has at least one chronic condition.
2	(CCCA_011 = 0) and (CCCA_021 = 0) and (CCCA_031 = 0) and (CCCA_041 = 0) and (CCCA_051 = 0) and (CCCA_061 = 0) and (CCCA_071 = 0) and (CCCA_081 = 0) and (CCCA_91A = 0) and (CCCA_91B = 0) and (CCCA_101 = 0) and (CCCA_111 = 0) and (CCCA_121 = 0) and (CCCA_131 = 0) and (CCCA_141 = 0) and (CCCA_151 = 0) and (CCCA_161 = 0) and (CCCA_171 = 0) and (CCCA_191 = 0) and (CCCA_201 = 0) and (CCCA_211 = 0) and (CCCA_251 = 0) and (CCCA_261 = 0) and (CCCAG221 = 0)	Respondent has no chronic conditions.

NS	(CCCA_011 = DK, R or NS) or (CCCA_021 = DK, R or NS) or (CCCA_031 = DK, R or NS) or (CCCA_041 = DK, R or NS) or (CCCA_051 = DK, R or NS) or (CCCA_061 = DK, R or NS) or (CCCA_071 = DK, R or NS) or (CCCA_081 = DK, R or NS) or (CCCA_91A = DK, R or NS) or (CCCA_91B = DK, R or NS) or (CCCA_101 = DK, R or NS) or (CCCA_111 = DK, R or NS) or (CCCA_121 = DK, R or NS) or (CCCA_131 = DK, R or NS) or (CCCA_141 = DK, R or NS) or (CCCA_151 = DK, R or NS) or (CCCA_161 = DK, R or NS) or (CCCA_171 = DK, R or NS) or (CCCA_191 = DK, R or NS) or (CCCA_201 = DK, R or NS) or (CCCA_211 = DK, R or NS) or (CCCA_251 = DK, R or NS) or (CCCA_261 = DK, R or NS) or (CCCAG221 = DK, R or NS)	Respondent didn't answer (DK, Refused, Not Stated) at least one of the questions and did not answer "Yes" to any.
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### 3) Number of chronic conditions

**Variable name:** CCCAGTOT

**Based on:** CCCA\_011, CCCA\_021, CCCA\_031, CCCA\_041, CCCA\_051, CCCA\_061, CCCA\_071, CCCA\_081, CCCA\_91A, CCCA\_91B, CCCA\_101, CCCA\_111, CCCA\_121, CCCA\_131, CCCA\_141, CCCA\_151, CCCA\_161, CCCA\_171, CCCA\_191, CCCA\_201, CCCA\_211, CCCA\_251, CCCA\_261, CCCAG221

**Description:** The following variable represents the number of chronic conditions the respondent has.

Value of CCCAGTOT	Condition(s)	Explanation
Minimum: 0; Maximum: 5	(CCCA_011 = 1 or 0) and (CCCA_021 = 1 or 0) and (CCCA_031 = 1 or 0) and (CCCA_041 = 1 or 0) and (CCCA_051 = 1 or 0) and (CCCA_061 = 1 or 0) and (CCCA_071 = 1 or 0) and (CCCA_081 = 1 or 0) and (CCCA_91A = 1 or 0) and (CCCA_91B = 1 or 0) and (CCCA_101 = 1 or 0) and (CCCA_111 = 1 or 0) and (CCCA_121 = 1 or 0) and (CCCA_131 = 1 or 0) and (CCCA_141 = 1 or 0) and (CCCA_151 = 1 or 0) and (CCCA_161 = 1 or 0) and (CCCA_171 = 1 or 0) and (CCCA_191 = 1 or 0) and (CCCA_201 = 1 or 0) and (CCCA_211 = 1 or 0) and (CCCA_251 = 1 or 0) and (CCCA_261 = 1 or 0) and (CCCAG221 = 1 or 0)	Total number of "Yes" answers to conditions (must have answered all questions necessary for the calculation). Five or more conditions have been grouped together.
NS	(CCCA_011 = DK, R or NS) or (CCCA_021 = DK, R or NS) or (CCCA_031 = DK, R or NS) or (CCCA_041 = DK, R or NS) or (CCCA_051 = DK, R or NS) or (CCCA_061 = DK, R or NS) or (CCCA_071 = DK, R or NS) or (CCCA_081 = DK, R or NS) or (CCCA_91A = DK, R or NS) or (CCCA_91B = DK, R or NS) or (CCCA_101 = DK, R or NS) or (CCCA_111 = DK, R or NS) or (CCCA_121 = DK, R or NS) or (CCCA_131 = DK, R or NS) or (CCCA_141 = DK, R or NS) or (CCCA_151 = DK, R or NS) or (CCCA_161 = DK, R or NS) or (CCCA_171 = DK, R or NS) or (CCCA_191 = DK, R or NS) or (CCCA_201 = DK, R or NS) or (CCCA_211 = DK, R or NS) or (CCCA_251 = DK, R or NS) or (CCCA_261 = DK, R or NS) or (CCCAG221 = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question necessary for calculation

## Use of Medications (1 DV)

### 1) Flag indicating medication use (past month)

**Variable name:** DRGAF1

**Based on:** DRGA\_1A, DRGA\_1B, DRGA\_1C, DRGA\_1D, DRGA\_1E, DRGA\_1F, DRGA\_1G, DRGA\_1H, DRGA\_1I, DRGA\_1J, DRGA\_1K, DRGA\_1L, DRGA\_1M, DRGA\_1N, DRGA\_1O, DRGA\_1P, DRGA\_1Q, DRGA\_1R, DRGA\_1S, DRGA\_1T, DRGA\_1U, DRGA\_1V

**Description:** The following variable represents whether or not the respondent took prescription or over-the-counter medications in the month prior to the interview.

Value of DRGAF1	Condition(s)	Explanation
1	(DRGA_1A = 1) or (DRGA_1B = 1) or (DRGA_1C = 1) or (DRGA_1D = 1) or (DRGA_1E = 1) or (DRGA_1F = 1) or (DRGA_1G = 1) or (DRGA_1H = 1) or (DRGA_1I = 1) or (DRGA_1J = 1) or (DRGA_1K = 1) or (DRGA_1L = 1) or (DRGA_1M = 1) or (DRGA_1N = 1) or (DRGA_1O = 1) or (DRGA_1P = 1) or (DRGA_1Q = 1) or (DRGA_1R = 1) or (DRGA_1S = 1) or (DRGA_1T = 1) or (DRGA_1U = 1) or (DRGA_1V = 1)	Respondent has taken at least one drug last month



2	(DRGA_1A = 2) and (DRGA_1B = 2) and (DRGA_1C = 2) and (DRGA_1D = 2) and (DRGA_1E = 2) and (DRGA_1F = 2) and (DRGA_1G = 2) and (DRGA_1H = 2) and (DRGA_1I = 2) and (DRGA_1J = 2) and (DRGA_1K = 2) and (DRGA_1L = 2) and (DRGA_1M = 2) and (DRGA_1N = 2) and (DRGA_1O = 2) and (DRGA_1P = 2) and (DRGA_1Q = 2) and (DRGA_1R = 2) and (DRGA_1S = 2 or NA) and (DRGA_1T = 2 or NA) and (DRGA_1U = 2) and (DRGA_1V = 2)	Respondent has not taken any drugs in the past month
NS	(DRGA_1A = DK, R or NS) or (DRGA_1B = DK, R or NS) or (DRGA_1C = DK, R or NS) or (DRGA_1D = DK, R or NS) or (DRGA_1E = DK, R or NS) or (DRGA_1F = DK, R or NS) or (DRGA_1G = DK, R or NS) or (DRGA_1H = DK, R or NS) or (DRGA_1I = DK, R or NS) or (DRGA_1J = DK, R or NS) or (DRGA_1K = DK, R or NS) or (DRGA_1L = DK, R or NS) or (DRGA_1M = DK, R or NS) or (DRGA_1N = DK, R or NS) or (DRGA_1O = DK, R or NS) or (DRGA_1P = DK, R or NS) or (DRGA_1Q = DK, R or NS) or (DRGA_1R = DK, R or NS) or (DRGA_1S = DK, R or NS) or (DRGA_1T = DK, R or NS) or (DRGA_1U = DK, R or NS) or (DRGA_1V = DK, R or NS)	Respondent did not answer (don't know, refusal, not specified) at least one question required.
NA	DRGA_1A = NA	Population exclusions – Optional content not selected

## Fruit and Vegetable Consumption (8 DVs)

**Note:** The fruit and vegetable screener measures the number of times fruits and vegetables are consumed, or frequency, without any regard to amount or “serving size”. All daily consumption values have been rounded to one decimal place.

### 1) Daily consumption – fruit juice

**Variable name:** FVCADJUI

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

**Description:** The following variable represents the number of times the respondent drank fruit juice per day.

<b>Value of FVCADJUI</b>	<b>Condition(s)</b>	<b>Explanation</b>
FVCA_1B	FVCA_1A = 1	Respondent answered in #/day
FVCA_1C / 7	FVCA_1A = 2	Respondent answered in #/week
FVCA_1D / 30	FVCA_1A = 3	Respondent answered in #/month
FVCA_1E / 365	FVCA_1A = 4	Respondent answered in #/year
0	FVCA_1A = 5	Respondent doesn't drink fruit juice.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_1A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_1B = DK, R or NS) or (FVCA_1C = DK, R or NS) or (FVCA_1D = DK, R or NS) or (FVCA_1E = DK, R or NS)	Respondent knew period but did not know or refused amount

## 2) Daily consumption –fruit

**Variable name:** FVCADFRU

**Based on:** FVCA\_2A, FVCA\_2B, FVCA\_2C, FVCA\_2D, FVCA\_2E

**Description:** The following variable represents the number of times the respondent consumed fruit per day excluding fruit juices.

Value of FVCADFRU	Condition(s)	Explanation
FVCA_2B	FVCA_2A = 1	Respondent answered in #/day
FVCA_2C / 7	FVCA_2A = 2	Respondent answered in #/week
FVCA_2D / 30	FVCA_2A = 3	Respondent answered in #/month
FVCA_2E / 365	FVCA_2A = 4	Respondent answered in #/year
0	FVCA_2A = 5	Respondent doesn't eat fruit.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_2A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_2B = DK, R or NS) or (FVCA_2C = DK, R or NS) or (FVCA_2D = DK, R or NS) or (FVCA_2E = DK, R or NS)	Respondent knew period but did not know or refused amount

## 3) Daily consumption – green salad

**Variable name:** FVCADSAL

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

**Description:** The following variable represents the number of times the respondent consumed green salad per day.

Value of FVCADSAL	Condition(s)	Explanation
FVCA_3B	FVCA_3A = 1	Respondent answered in #/day
FVCA_3C / 7	FVCA_3A = 2	Respondent answered in #/week
FVCA_3D / 30	FVCA_3A = 3	Respondent answered in #/month
FVCA_3E / 365	FVCA_3A = 4	Respondent answered in #/year
0	FVCA_3A = 5	Respondent doesn't eat green salad.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_3A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_3B = DK, R or NS) or (FVCA_3C = DK, R or NS) or (FVCA_3D = DK, R or NS) or (FVCA_3E = DK, R or NS)	Respondent knew period but did not know or refused amount

#### 4) Daily consumption – potatoes

**Variable name:** FVCADPOT

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

**Description:** The following variable represents the number of times the respondent consumed potatoes per day excluding french fries, fried potatoes, or potato chips.

Value of FVCADPOT	Condition(s)	Explanation
FVCA_4B	FVCA_4A = 1	Respondent answered in #/day
FVCA_4C / 7	FVCA_4A = 2	Respondent answered in #/week
FVCA_4D / 30	FVCA_4A = 3	Respondent answered in #/month
FVCA_4E / 365	FVCA_4A = 4	Respondent answered in #/year
0	FVCA_4A = 5	Respondent doesn't eat potatoes.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_4A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_4B = DK, R or NS) or (FVCA_4C = DK, R or NS) or (FVCA_4D = DK, R or NS) or (FVCA_4E = DK, R or NS)	Respondent knew period but did not know or refused amount

#### 5) Daily consumption – carrots

**Variable name:** FVCADCAR

**Based on:** FVCA\_5A, FVCA\_5B, FVCA\_5C, FVCA\_5D, FVCA\_5E

**Description:** The following variable represents the number of times the respondent consumed carrots per day.

Value of FVCADCAR	Condition(s)	Explanation
FVCA_5B	FVCA_5A = 1	Respondent answered in #/day
FVCA_5C / 7	FVCA_5A = 2	Respondent answered in #/week
FVCA_5D / 30	FVCA_5A = 3	Respondent answered in #/month
FVCA_5E / 365	FVCA_5A = 4	Respondent answered in #/year
0	FVCA_5A = 5	Respondent doesn't eat carrots.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_5A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_5B = DK, R or NS) or (FVCA_5C = DK, R or NS) or (FVCA_5D = DK, R or NS) or (FVCA_5E = DK, R or NS)	Respondent knew period but did not know or refused amount

## 6) Daily consumption – other vegetables

**Variable name:** FVCADVEG

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

**Description:** The following variable represents the respondent's daily consumption of vegetables excluding carrots, potatoes, or salad.

Value of FVCADVEG	Condition(s)	Explanation
FVCA_6B	FVCA_6A = 1	Respondent answered in #/day
FVCA_6C / 7	FVCA_6A = 2	Respondent answered in #/week
FVCA_6D / 30	FVCA_6A = 3	Respondent answered in #/month
FVCA_6E / 365	FVCA_6A = 4	Respondent answered in #/year
0	FVCA_6A = 5	Respondent doesn't eat other vegetables.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	FVCA_6A = DK, R or NS	Respondent didn't answer the question.
NS	(FVCA_6B = DK, R or NS) or (FVCA_6C = DK, R or NS) or (FVCA_6D = DK, R or NS) or (FVCA_6E = DK, R or NS)	Respondent knew period but did not know or refused amount

## 7) Daily consumption – total fruit and vegetable

**Variable name:** FVCADTOT

**Based on:** FVCADJUI, FVCADFRU, FVCADSAL, FVCADPOT, FVCADCAR, FVCADVEG

**Description:** The following variable represents the respondent's total daily consumption of fruits and vegetables.

Value of FVCADTOT	Condition(s)	Explanation
FVCADJUI + FVCADFRU + FVCADSAL + FVCADPOT + FVCADCAR + FVCADVEG  Min: 0; max: 120	(FVCADJUI >=0 and <= 20) and (FVCADFRU >=0 and <= 20) and (FVCADSAL >=0 and <= 20) and (FVCADPOT >=0 and <= 20) and (FVCADCAR >=0 and <= 20) and (FVCADVEG >=0 and <= 20)	Total fruit and vegetable consumption (times/day)
NS	(FVCADJUI = NS) or (FVCADFRU = NS) or (FVCADSAL = NS) or (FVCADPOT = NS) or (FVCADCAR = NS) or (FVCADVEG = NS)	Respondent didn't answer at least one question required for calculation (includes proxy).

## 8) Grouping of daily consumption – total fruit and vegetable

**Variable name:** FVCAGTOT

**Based on:** FVCADTOT

**Description:** The following variable classifies the respondent based on their total daily consumption fruits and vegetables.

<b>Value of FVCAGTOT</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	FVCADTOT < 5	Respondent consumes fruits and vegetables less than 5 times per day.
2	FVCADTOT >=5 and <= 10	Respondent consumes fruits and vegetables between 5 to 10 times per day.
3	FVCADTOT > 10	Respondent consumes fruits and vegetables more than 10 times per day.
NS	FVCADTOT = NS	Respondent didn't answer at least one question required for calculation (includes proxy).

## Physical Activities (6 DVs)

### 1) Energy expenditure

**Variable name:** PACADEE

**Based on:** PACA\_1V, PACA\_2A, PACA\_2B, PACA\_2C, PACA\_2D, PACA\_2E, PACA\_2F, PACA\_2G, PACA\_2H, PACA\_2I, PACA\_2J, PACA\_2K, PACA\_2L, PACA\_2M, PACA\_2N, PACA\_2O, PACA\_2P, PACA\_2Q, PACA\_2R, PACA\_2S, PACA\_2T, PACA\_2U, PACA\_2W, PACA\_2X, PACA\_3A, PACA\_3B, PACA\_3C, PACA\_3D, PACA\_3E, PACA\_3F, PACA\_3G, PACA\_3H, PACA\_3I, PACA\_3J, PACA\_3K, PACA\_3L, PACA\_3M, PACA\_3N, PACA\_3O, PACA\_3P, PACA\_3Q, PACA\_3R, PACA\_3S, PACA\_3T, PACA\_3U, PACA\_3W, PACA\_3X

**Description:** In order to derive a physical activity index, the energy expenditure (EE) of participants in their leisure activities should be estimated. EE is calculated using the frequency and time per session of the physical activity as well as its MET value. The MET is a value of metabolic energy cost expressed as a multiple of the resting metabolic rate. Thus, an activity of 4 METS requires four times the amount of energy as compared to when the body is at rest.

**Technical Specs:** Energy expenditure for each activity (kcal/kg/day) =  $(N \times D \times \text{MET value})/365$

Where:

N = the number of times a respondent engaged in an activity over a 12 month period

D = the average duration in hours of the activity

MET value = the energy cost of the activity expressed as kilocalories expended per kilogram of body weight per hour of activity † (kcal/kg per hour)/365 (to convert yearly data into daily data)

† MET values tend to be expressed in three intensity levels (i.e. low, medium, high). CCHS questions did not ask the respondent to specify the intensity level of their activities, therefore the MET values adopted correspond to the low intensity value of each activity. This approach is adopted from the Canadian Fitness and Lifestyle Research Institute because individuals tend to overestimate the intensity, frequency and duration of their activities. The MET values are:

Variable Name	Activity	MET Value (kcal/kg/hr)
PACADEEA	WALKING FOR EXERCISE	3
PACADEEB	GARDENING OR YARD WORK	3
PACADEEC	SWIMMING	3
PACADEED	BICYCLING	4
PACADEEE	POPULAR OR SOCIAL DANCE	3
PACADEEF	HOME EXERCISES	3
PACADEEG	ICE HOCKEY	6
PACADEEH	ICE SKATING	4
PACADEEI	IN-LINE SKATING OR ROLLERBLADING	5
PACADEEJ	JOGGING OR RUNNING	9.5
PACADEEK	GOLFING	4
PACADEEL	EXERCISE CLASS OR AEROBICS	4
PACADEEM	DOWNHILL SKIING OR SNOWBOARDING	4
PACADEEN	BOWLING	2
PACADEEO	BASEBALL OR SOFTBALL	3
PACADEEP	TENNIS	4
PACADEEQ	WEIGHT-TRAINING	3
PACADEER	FISHING	3
PACADEES	VOLLEYBALL	5
PACADEET	BASKETBALL	6
PACADEEU	OTHER (U)	4
PACADEEW	OTHER (W)	4
PACADEEX	OTHER (X)	4

**Note:** Jogging (MET value 7) and running (MET value 12) fall under one category therefore, the MET value for the combined activity is the average of their MET values (9.5). Since it is difficult to assign a MET value to the category "Other Activities", the MET value used was the average of the listed activities except for the average value of jogging and running. Instead the average value of jogging and running was replaced by the value for jogging **ONLY** in the calculation of the overall average for "Other Activities". Some activities have MET values lower than the average, however, this approach is consistent with other studies, such as the Campbell's Survey and the Ontario Health Survey (OHS).

**Internet Site:** Canadian Fitness and Lifestyle Research Institute: [www.cflri.ca/](http://www.cflri.ca/)

WALKING FOR EXERCISE:

Value of PACADEEA	Condition(s)	Explanation
0	PACA_3A = NA	Respondent did not participate in activity
0	PACA_3A = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2A \times 4 \times .2167 \times 3) / 365$	PACA_3A = 1	Calculate EE for < 15 min*
$(PACA\_2A \times 4 \times .3833 \times 3) / 365$	PACA_3A = 2	Calculate EE for 16 to 30 min*
$(PACA\_2A \times 4 \times .75 \times 3) / 365$	PACA_3A = 3	Calculate EE for 31 to 60 min*
$(PACA\_2A \times 4 \times 1 \times 3) / 365$	PACA_3A = 4	Calculate EE for > 60 min*

GARDENING OR YARD WORK:

Value of PACADEEB	Condition(s)	Explanation
0	PACA_3B = NA	Respondent did not participate in activity
0	PACA_3B = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2B \times 4 \times .2167 \times 3) / 365$	PACA_3B = 1	Calculate EE for < 15 min*
$(PACA\_2B \times 4 \times .3833 \times 3) / 365$	PACA_3B = 2	Calculate EE for 16 to 30 min*
$(PACA\_2B \times 4 \times .75 \times 3) / 365$	PACA_3B = 3	Calculate EE for 31 to 60 min*
$(PACA\_2B \times 4 \times 1 \times 3) / 365$	PACA_3B = 4	Calculate EE for > 60 min*

SWIMMING:

Value of PACADEEC	Condition(s)	Explanation
0	PACA_3C = NA	Respondent did not participate in activity
0	PACA_3C = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2C \times 4 \times .2167 \times 3) / 365$	PACA_3C = 1	Calculate EE for < 15 min*
$(PACA\_2C \times 4 \times .3833 \times 3) / 365$	PACA_3C = 2	Calculate EE for 16 to 30 min*
$(PACA\_2C \times 4 \times .75 \times 3) / 365$	PACA_3C = 3	Calculate EE for 31 to 60 min*
$(PACA\_2C \times 4 \times 1 \times 3) / 365$	PACA_3C = 4	Calculate EE for > 60 min*

\*Times were rounded to a specific value for calculation, as with NPHS (13min/.2167hr, 23min/.3833hr, 45min/.75hr, 60min/1hr).



## BICYCLING:

Value of PACADEED	Condition(s)	Explanation
0	PACA_3D = NA	Respondent did not participate in activity
0	PD_Q3D = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2D \times 4 \times .2167 \times 4) / 365$	PD_Q3D = 1	Calculate EE for < 15 min*
$(PACA\_2D \times 4 \times .3833 \times 4) / 365$	PD_Q3D = 2	Calculate EE for 16 to 30 min*
$(PACA\_2D \times 4 \times .75 \times 4) / 365$	PD_Q3D = 3	Calculate EE for 31 to 60 min*
$(PACA\_2D \times 4 \times 1 \times 4) / 365$	PD_Q3D = 4	Calculate EE for > 60 min*

## POPULAR OR SOCIAL DANCE:

Value of PACADEEE	Condition(s)	Explanation
0	PACA_3E = NA	Respondent did not participate in activity
0	PACA_3E = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2E \times 4 \times .2167 \times 3) / 365$	PACA_3E = 1	Calculate EE for < 15 min*
$(PACA\_2E \times 4 \times .3833 \times 3) / 365$	PACA_3E = 2	Calculate EE for 16 to 30 min*
$(PACA\_2E \times 4 \times .75 \times 3) / 365$	PACA_3E = 3	Calculate EE for 31 to 60 min*
$(PACA\_2E \times 4 \times 1 \times 3) / 365$	PACA_3E = 4	Calculate EE for > 60 min*

## HOME EXERCISES:

Value of PACADEEF	Condition(s)	Explanation
0	PACA_3F = NA	Respondent did not participate in activity
0	PACA_3F = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2F \times 4 \times .2167 \times 3) / 365$	PACA_3F = 1	Calculate EE for < 15 min*
$(PACA\_2F \times 4 \times .3833 \times 3) / 365$	PACA_3F = 2	Calculate EE for 16 to 30 min*
$(PACA\_2F \times 4 \times .75 \times 3) / 365$	PACA_3F = 3	Calculate EE for 31 to 60 min*
$(PACA\_2F \times 4 \times 1 \times 3) / 365$	PACA_3F = 4	Calculate EE for > 60 min*

## ICE HOCKEY:

Value of PACADEEG	Condition(s)	Explanation
0	PACA_3G = NA	Respondent did not participate in activity
0	PACA_3G = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2G \times 4 \times .2167 \times 6) / 365$	PACA_3G = 1	Calculate EE for < 15 min*
$(PACA\_2G \times 4 \times .3833 \times 6) / 365$	PACA_3G = 2	Calculate EE for 16 to 30 min*
$(PACA\_2G \times 4 \times .75 \times 6) / 365$	PACA_3G = 3	Calculate EE for 31 to 60 min*
$(PACA\_2G \times 4 \times 1 \times 6) / 365$	PACA_3G = 4	Calculate EE for > 60 min*

## ICE SKATING:

Value of PACADEEH	Condition(s)	Explanation
0	PACA_3H = NA	Respondent did not participate in activity
0	PACA_3H = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2H \times 4 \times .2167 \times 4) / 365$	PACA_3H = 1	Calculate EE for < 15 min*
$(PACA\_2H \times 4 \times .3833 \times 4) / 365$	PACA_3H = 2	Calculate EE for 16 to 30 min*
$(PACA\_2H \times 4 \times .75 \times 4) / 365$	PACA_3H = 3	Calculate EE for 31 to 60 min*
$(PACA\_2H \times 4 \times 1 \times 4) / 365$	PACA_3H = 4	Calculate EE for > 60 min*

## IN-LINE SKATING OR ROLLERBLADING:

Value of PACADEEI	Condition(s)	Explanation
0	PACA_3I = NA	Respondent did not participate in activity
0	PACA_3I = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2I \times 4 \times .2167 \times 5) / 365$	PACA_3I = 1	Calculate EE for < 15 min*
$(PACA\_2I \times 4 \times .3833 \times 5) / 365$	PACA_3I = 2	Calculate EE for 16 to 30 min*
$(PACA\_2I \times 4 \times .75 \times 5) / 365$	PACA_3I = 3	Calculate EE for 31 to 60 min*
$(PACA\_2I \times 4 \times 1 \times 5) / 365$	PACA_3I = 4	Calculate EE for > 60 min*

## JOGGING OR RUNNING:

Value of PACADEEJ	Condition(s)	Explanation
0	PACA_3J = NA	Respondent did not participate in activity
0	PACA_3J = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2J \times 4 \times .2167 \times 9.5) / 365$	PACA_3J = 1	Calculate EE for < 15 min*
$(PACA\_2J \times 4 \times .3833 \times 9.5) / 365$	PACA_3J = 2	Calculate EE for 16 to 30 min*
$(PACA\_2J \times 4 \times .75 \times 9.5) / 365$	PACA_3J = 3	Calculate EE for 31 to 60 min*
$(PACA\_2J \times 4 \times 1 \times 9.5) / 365$	PACA_3J = 4	Calculate EE for > 60 min*

## GOLFING:

Value of PACADEEK	Condition(s)	Explanation
0	PACA_3K = NA	Respondent did not participate in activity
0	PACA_3K = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2K \times 4 \times .2167 \times 4) / 365$	PACA_3K = 1	Calculate EE for < 15 min*
$(PACA\_2K \times 4 \times .3833 \times 4) / 365$	PACA_3K = 2	Calculate EE for 16 to 30 min*
$(PACA\_2K \times 4 \times .75 \times 4) / 365$	PACA_3K = 3	Calculate EE for 31 to 60 min*
$(PACA\_2K \times 4 \times 1 \times 4) / 365$	PACA_3K = 4	Calculate EE for > 60 min*

## EXERCISE CLASS OR AEROBICS:

Value of PACADEEL	Condition(s)	Explanation
0	PACA_3L = NA	Respondent did not participate in activity
0	PACA_3L = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2L \times 4 \times .2167 \times 4) / 365$	PACA_3L = 1	Calculate EE for < 15 min*
$(PACA\_2L \times 4 \times .3833 \times 4) / 365$	PACA_3L = 2	Calculate EE for 16 to 30 min*
$(PACA\_2L \times 4 \times .75 \times 4) / 365$	PACA_3L = 3	Calculate EE for 31 to 60 min*
$(PACA\_2L \times 4 \times 1 \times 4) / 365$	PACA_3L = 4	Calculate EE for > 60 min*

## DOWNHILL SKIING OR SNOWBOARDING:

Value of PACADEEM	Condition(s)	Explanation
0	PACA_3M = NA	Respondent did not participate in activity
0	PACA_3M = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2M \times 4 \times .2167 \times 4) / 365$	PACA_3M = 1	Calculate EE for < 15 min*
$(PACA\_2M \times 4 \times .3833 \times 4) / 365$	PACA_3M = 2	Calculate EE for 16 to 30 min*
$(PACA\_2M \times 4 \times .75 \times 4) / 365$	PACA_3M = 3	Calculate EE for 31 to 60 min*
$(PACA\_2M \times 4 \times 1 \times 4) / 365$	PACA_3M = 4	Calculate EE for > 60 min*

## BOWLING:

Value of PACADEEN	Condition(s)	Explanation
0	PACA_3N = NA	Respondent did not participate in activity
0	PACA_3N = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2N \times 4 \times .2167 \times 2) / 365$	PACA_3N = 1	Calculate EE for < 15 min*
$(PACA\_2N \times 4 \times .3833 \times 2) / 365$	PACA_3N = 2	Calculate EE for 16 to 30 min*
$(PACA\_2N \times 4 \times .75 \times 2) / 365$	PACA_3N = 3	Calculate EE for 31 to 60 min*
$(PACA\_2N \times 4 \times 1 \times 2) / 365$	PACA_3N = 4	Calculate EE for > 60 min*

## BASEBALL OR SOFTBALL:

Value of PACADEEO	Condition(s)	Explanation
0	PACA_3O = NA	Respondent did not participate in activity
0	PACA_3O = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2O \times 4 \times .2167 \times 3) / 365$	PACA_3O = 1	Calculate EE for < 15 min*
$(PACA\_2O \times 4 \times .3833 \times 3) / 365$	PACA_3O = 2	Calculate EE for 16 to 30 min*
$(PACA\_2O \times 4 \times .75 \times 3) / 365$	PACA_3O = 3	Calculate EE for 31 to 60 min*
$(PACA\_2O \times 4 \times 1 \times 3) / 365$	PACA_3O = 4	Calculate EE for > 60 min*

## TENNIS:

Value of PACADEEP	Condition(s)	Explanation
0	PACA_3P = NA	Respondent did not participate in activity
0	PACA_3P = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2P \times 4 \times .2167 \times 4) / 365$	PACA_3P = 1	Calculate EE for < 15 min*
$(PACA\_2P \times 4 \times .3833 \times 4) / 365$	PACA_3P = 2	Calculate EE for 16 to 30 min*
$(PACA\_2P \times 4 \times .75 \times 4) / 365$	PACA_3P = 3	Calculate EE for 31 to 60 min*
$(PACA\_2P \times 4 \times 1 \times 4) / 365$	PACA_3P = 4	Calculate EE for > 60 min*

## WEIGHT-TRAINING:

Value of PACADEEQ	Condition(s)	Explanation
0	PACA_3Q = NA	Respondent did not participate in activity
0	PACA_3Q = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2Q \times 4 \times .2167 \times 3) / 365$	PACA_3Q = 1	Calculate EE for < 15 min*
$(PACA\_2Q \times 4 \times .3833 \times 3) / 365$	PACA_3Q = 2	Calculate EE for 16 to 30 min*
$(PACA\_2Q \times 4 \times .75 \times 3) / 365$	PACA_3Q = 3	Calculate EE for 31 to 60 min*
$(PACA\_2Q \times 4 \times 1 \times 3) / 365$	PACA_3Q = 4	Calculate EE for > 60 min*

## FISHING:

Value of PACADEER	Condition(s)	Explanation
0	PACA_3R = NA	Respondent did not participate in activity
0	PACA_3R = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2R \times 4 \times .2167 \times 3) / 365$	PACA_3R = 1	Calculate EE for < 15 min*
$(PACA\_2R \times 4 \times .3833 \times 3) / 365$	PACA_3R = 2	Calculate EE for 16 to 30 min*
$(PACA\_2R \times 4 \times .75 \times 3) / 365$	PACA_3R = 3	Calculate EE for 31 to 60 min*
$(PACA\_2R \times 4 \times 1 \times 3) / 365$	PACA_3R = 4	Calculate EE for > 60 min*

## VOLLEYBALL:

Value of PACADEES	Condition(s)	Explanation
0	PACA_3S = NA	Respondent did not participate in activity
0	PACA_3S = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2S \times 4 \times .2167 \times 5) / 365$	PACA_3S = 1	Calculate EE for < 15 min*
$(PACA\_2S \times 4 \times .3833 \times 5) / 365$	PACA_3S = 2	Calculate EE for 16 to 30 min*
$(PACA\_2S \times 4 \times .75 \times 5) / 365$	PACA_3S = 3	Calculate EE for 31 to 60 min*
$(PACA\_2S \times 4 \times 1 \times 5) / 365$	PACA_3S = 4	Calculate EE for > 60 min*

## BASKETBALL:

Value of PACADEET	Condition(s)	Explanation
0	PACA_3T = NA	Respondent did not participate in activity
0	PACA_3T = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2T \times 4 \times .2167 \times 6) / 365$	PACA_3T = 1	Calculate EE for < 15 min*
$(PACA\_2T \times 4 \times .3833 \times 6) / 365$	PACA_3T = 2	Calculate EE for 16 to 30 min*
$(PACA\_2T \times 4 \times .75 \times 6) / 365$	PACA_3T = 3	Calculate EE for 31 to 60 min*
$(PACA\_2T \times 4 \times 1 \times 6) / 365$	PACA_3T = 4	Calculate EE for > 60 min*

## OTHER (U):

Value of PACADEEU	Condition(s)	Explanation
0	PACA_3U = NA	Respondent did not participate in activity
0	PACA_3U = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2U \times 4 \times .2167 \times 4) / 365$	PACA_3U = 1	Calculate EE for < 15 min*
$(PACA\_2U \times 4 \times .3833 \times 4) / 365$	PACA_3U = 2	Calculate EE for 16 to 30 min*
$(PACA\_2U \times 4 \times .75 \times 4) / 365$	PACA_3U = 3	Calculate EE for 31 to 60 min*
$(PACA\_2U \times 4 \times 1 \times 4) / 365$	PACA_3U = 4	Calculate EE for > 60 min*

## OTHER (W):

Value of PACADEEW	Condition(s)	Explanation
0	PACA_3W = NA	Respondent did not participate in activity
0	PACA_3W = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)
$(PACA\_2W \times 4 \times .2167 \times 4) / 365$	PACA_3W = 1	Calculate EE for < 15 min*
$(PACA\_2W \times 4 \times .3833 \times 4) / 365$	PACA_3W = 2	Calculate EE for 16 to 30 min*
$(PACA\_2W \times 4 \times .75 \times 4) / 365$	PACA_3W = 3	Calculate EE for 31 to 60 min*
$(PACA\_2W \times 4 \times 1 \times 4) / 365$	PACA_3W = 4	Calculate EE for > 60 min*

## OTHER (X):

Value of PACADEEX	Condition(s)	Explanation
0	PACA_3X = NA	Respondent did not participate in activity
0	PACA_3X = DK, R or NS	Respondent did not answer (don't know, refusal, not specified) at least one required question
$(PACA\_2X \times 4 \times .2167 \times 4) / 365$	PACA_3X = 1	Calculate EE for < 15 min*
$(PACA\_2X \times 4 \times .3833 \times 4) / 365$	PACA_3X = 2	Calculate EE for 16 to 30 min*
$(PACA\_2X \times 4 \times .75 \times 4) / 365$	PACA_3X = 3	Calculate EE for 31 to 60 min*
$(PACA\_2X \times 4 \times 1 \times 4) / 365$	PACA_3X = 4	Calculate EE for > 60 min*

**SUM EE VALUES AND ROUND TO ONE DECIMAL:****TOTAL:**

<b>Value of PACADEE</b>	<b>Condition(s)</b>	<b>Explanation</b>
0	PACA_1V = 1	No physical activity
PACADEEA + PACADEEB + PACADEEC + PACADEED + PACADEEE + PACADEEF + PACADEEG + PACADEEH + PACADEEI + PACADEEJ + PACADEEK + PACADEEL + PACADEEM + PACADEEN + PACADEEO + PACADEEP + PACADEEQ + PACADEER + PACADEES + PACADEET + PACADEEU + PACADEEW + PACADEEX  Round to one decimal place  Min: 0 ; max: 99.5	(PACADEEA >= 0 and < NA) and (PACADEEB >= 0 and < NA) and (PACADEEC >= 0 and < NA) and (PACADEED >= 0 and < NA) and (PACADEEE >= 0 and < NA) and (PACADEEF >= 0 and < NA) and (PACADEEG >= 0 and < NA) and (PACADEEH >= 0 and < NA) and (PACADEEI >= 0 and < NA) and (PACADEEJ >= 0 and < NA) and (PACADEEK >= 0 and < NA) and (PACADEEL >= 0 and < NA) and (PACADEEM >= 0 and < NA) and (PACADEEN >= 0 and < NA) and (PACADEEO >= 0 and < NA) and (PACADEEP >= 0 and < NA) and (PACADEEQ >= 0 and < NA) and (PACADEER >= 0 and < NA) and (PACADEES >= 0 and < NA) and (PACADEET >= 0 and < NA) and (PACADEEU >= 0 and < NA) and (PACADEEW >= 0 and < NA) and (PACADEEX >= 0 and < NA)	Total energy expenditure (kcal/kg/day) is equal to the sum of energy expenditure for each activity
NS	PACA_1V = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)

**2) Participant in leisure physical activity****Variable name:** PACAFLEI**Based on:** PACA\_1V**Description:** The following variable indicates whether the respondent participated in any leisure activities in the three months prior to the interview.**Source:** Ontario Health Survey**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/4903.htm>

<b>Value of PACAFLEI</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	PACA_1V = 2	Respondent participates in leisure physical activity
2	PACA_1V = 1	Respondent does not participate in leisure physical activity
NS	PACA_1V = DK, R or NS	Respondent did not answer question (don't know, refusal, not specified)

### 3) Average monthly frequency of physical activity lasting over 15 minutes

**Variable name:** PACADFM

**Based on:** PACA\_1V, PACA\_2A, PACA\_2B, PACA\_2C, PACA\_2D, PACA\_2E, PACA\_2F, PACA\_2G, PACA\_2H, PACA\_2I, PACA\_2J, PACA\_2K, PACA\_2L, PACA\_2M, PACA\_2N, PACA\_2O, PACA\_2P, PACA\_2Q, PACA\_2R, PACA\_2S, PACA\_2T, PACA\_2U, PACA\_2W, PACA\_2X, PACA\_3A, PACA\_3B, PACA\_3C, PACA\_3D, PACA\_3E, PACA\_3F, PACA\_3G, PACA\_3H, PACA\_3I, PACA\_3J, PACA\_3K, PACA\_3L, PACA\_3M, PACA\_3N, PACA\_3O, PACA\_3P, PACA\_3Q, PACA\_3R, PACA\_3S, PACA\_3T, PACA\_3U, PACA\_3W, PACA\_3X

**Description:** The following variable calculates the average number of times in the past month that respondents took part in a physical activity lasting more than 15 minutes. It should be noted that the questions refer to a three-month period and this variable refers to a one-month period (the total frequency was divided by three).

**Source:** Ontario Health Survey

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/4903.htm>

#### Temporary Reformats

Reformat	Explanation
If PACA_3A = 1, NA, DK, R or NS then PACA_2A = 0	Set all values for PA_Q3 (time spent on each occasion) to 0 if PA_Q3 is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R or NS (did not answer question)
If PACA_3B = 1, NA, DK, R or NS then PACA_2B = 0	
If PACA_3C = 1, NA, DK, R or NS then PACA_2C = 0	
If PACA_3D = 1, NA, DK, R or NS then PACA_2D = 0	
If PACA_3E = 1, NA, DK, R or NS then PACA_2E = 0	
If PACA_3F = 1, NA, DK, R or NS then PACA_2F = 0	
If PACA_3G = 1, NA, DK, R or NS then PACA_2G = 0	
If PACA_3H = 1, NA, DK, R or NS then PACA_2H = 0	
If PACA_3I = 1, NA, DK, R or NS then PACA_2I = 0	
If PACA_3J = 1, NA, DK, R or NS then PACA_2J = 0	
If PACA_3K = 1, NA, DK, R or NS then PACA_2K = 0	
If PACA_3L = 1, NA, DK, R or NS then PACA_2L = 0	
If PACA_3M = 1, NA, DK, R or NS then PACA_2M = 0	
If PACA_3N = 1, NA, DK, R or NS then PACA_2N = 0	
If PACA_3O = 1, NA, DK, R or NS then PACA_2O = 0	
If PACA_3P = 1, NA, DK, R or NS then PACA_2P = 0	
If PACA_3Q = 1, NA, DK, R or NS then PACA_2Q = 0	
If PACA_3R = 1, NA, DK, R or NS then PACA_2R = 0	
If PACA_3S = 1, NA, DK, R or NS then PACA_2S = 0	
If PACA_3T = 1, NA, DK, R or NS then PACA_2T = 0	
If PACA_3U = 1, NA, DK, R or NS then PACA_2U = 0	
If PACA_3W = 1, NA, DK, R or NS then PACA_2W = 0	
If PACA_3X = 1, NA, DK, R or NS then PACA_2X = 0	

Value of PACADFM	Condition(s)	Explanation
0	PACA_1V=1	No physical activity
$\frac{(PACA\_2A + PACA\_2B + PAQ\_2C + PAQ\_2D + PACA\_2E + PACA\_2F + PACA\_2G + PACA\_2H + PACA\_2I + PACA\_2J + PACA\_2K + PACA\_2L + PACA\_2M + PACA\_2N + PACA\_2O + PACA\_2P + PACA\_2Q + PACA\_2R + PACA\_2S + PACA\_2T + PACA\_2U + PACA\_2W + PACA\_2X)}{3}$ <p>Min: 0 ; Max: 995</p> <p>(Round to nearest integer)</p>	(PACA_2A >=0 and <NA) and (PACA_2B >=0 and <NA) and (PACA_2C >=0 and <NA) and (PACA_2D >=0 and <NA) and (PACA_2E >=0 and <NA) and (PACA_2F >=0 and <NA) and (PACA_2G >=0 and <NA) and (PACA_2H >=0 and <NA) and (PACA_2I >=0 and <NA) and (PACA_2J >=0 and <NA) and (PACA_2K >=0 and <NA) and (PACA_2L >=0 and <NA) and (PACA_2M >=0 and <NA) and (PACA_2N >=0 and <NA) and (PACA_2O >=0 and <NA) and (PACA_2P >=0 and <NA) and (PACA_2Q >=0 and <NA) and (PACA_2R >=0 and <NA) and (PACA_2S >=0 and <NA) and (PACA_2T >=0 and <NA) and (PACA_2U >=0 and <NA) and (PACA_2W >= 0 and <NA) and (PACA_2X >=0 and <NA)	Total frequencies of PCUAFOPT activity lasting over 15 min over 3 months divided by 3.
NS	PACA_1V = DK, R or NS	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation

#### 4) Frequency of all physical activity – lasting more than 15 minutes

**Variable name:** PACADFR

**Based on:** PACADFM

**Description:** The following variable classifies respondents based on their average monthly frequency of physical activities lasting more than 15 minutes.

Value of PACADFR	Condition(s)	Explanation
1	PACADFM >= 12 and < NA	Respondent exercises regularly
2	PACADFM >= 4 and < 12	Respondent exercises occasionally
3	PACADFM < 4	Respondent exercises infrequently
NS	PACADFM = NS	Respondent did not answer question (don't know, refusal, not specified)



## 5) Participant in daily physical activity lasting over 15 minutes

**Variable name:** PACAFD

**Based on:** PACAFDM

**Description:** The following variable indicates if the respondent participated daily in physical activity.

Value of PACAFD	Condition(s)	Explanation
1	PACAFDM $\geq$ 30 and $<$ NA	Respondent exercises daily
2	PACAFDM $<$ 30	Respondent does not exercise daily
NS	PACAFDM = NS	Respondent did not answer question (don't know, refusal, not specified)

## 6) Physical Activity Index

**Variable name:** PACADPAI

**Based on:** PACADEE

**Description:** Energy expenditure values used to categorize individuals are the same as those used in the Ontario Health Survey (OHS) and in the Campbell's Survey on Well Being.

**Internet Site:** Campbell Survey on Well-Being in Canada: [www.cflri.ca/cflri/pa/surveys/88survey.html](http://www.cflri.ca/cflri/pa/surveys/88survey.html)

Value of PACADPAI	Condition(s)	Explanation
1	PACADEE $\geq$ 3.0 and $<$ NA	Active
2	PACADEE $\geq$ 1.5 and $<$ 3.0	Moderate
3	PACADEE $\geq$ 0 and $<$ 1.5	Inactive
NS	PACADEE = NS	Respondent did not answer question (don't know, refusal, not specified)

## Sedentary Activities (1 DV)

### Temporary Reformats

Reformat	Explanation
if SACA_1 = 1 then SACA_1 = 0 if SACA_1 = 2 then SACA_1 = 0.5 if SACA_1 = 3 then SACA_1 = 1.5 if SACA_1 = 4 then SACA_1 = 4 if SACA_1 = 5 then SACA_1 = 8 if SACA_1 = 6 then SACA_1 = 12.5 if SACA_1 = 7 then SACA_1 = 17.5 if SACA_1 = 8 then SACA_1 = 20	Recode to midpoint of response ranges
if SACA_2 = 1 then SACA_2 = 0 if SACA_2 = 2 then SACA_2 = 0.5 if SACA_2 = 3 then SACA_2 = 1.5 if SACA_2 = 4 then SACA_2 = 4 if SACA_2 = 5 then SACA_2 = 8 if SACA_2 = 6 then SACA_2 = 12.5 if SACA_2 = 7 then SACA_2 = 17.5 if SACA_2 = 8 then SACA_2 = 20	Recode to midpoint of response ranges
if SACA_3 = 1 then SACA_3 = 0 if SACA_3 = 2 then SACA_3 = 0.5 if SACA_3 = 3 then SACA_3 = 1.5 if SACA_3 = 4 then SACA_3 = 4 if SACA_3 = 5 then SACA_3 = 8 if SACA_3 = 6 then SACA_3 = 12.5 if SACA_3 = 7 then SACA_3 = 17.5 if SACA_3 = 8 then SACA_3 = 20	Recode to midpoint of response ranges
if SACA_4 = 1 then SACA_4 = 0 if SACA_4 = 2 then SACA_4 = 0.5 if SACA_4 = 3 then SACA_4 = 1.5 if SACA_4 = 4 then SACA_4 = 4 if SACA_4 = 5 then SACA_4 = 8 if SACA_4 = 6 then SACA_4 = 12.5 if SACA_4 = 7 then SACA_4 = 17.5 if SACA_4 = 8 then SACA_4 = 20	Recode to midpoint of response ranges

## 1) Time spent on sedentary activities

**Variable name:** SACADTOT

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

**Description:** The following variable represents the time spent on selected sedentary activities. Sedentary activities are activities that one performs during his/her leisure time, not while at work or at school. The respondent was asked about time spent on a computer, playing video games, watching television and reading.

Preliminary Addition:

Value of SACA	Condition(s)	Explanation
SACA_1+SACA_2+ SACA_3+SACA_4	(0 <= SACA_1 <= 20) and (0 <= SACA_2 <= 20) and (0 <= SACA_3 <= 20) and (0 <= SACA_4 <= 20)	Valid response codes for all required questions where the respondent is aged <20
SACA_1+SACA_3+SACA_4	(0 <= SACA_1 <= 20) and (SACA_2 = NA) and (0 <= SACA_3 <= 20) and (0 <= SACA_4 <= 20)	Valid response codes for all required questions in the section where respondent is aged >= 20
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(SACA_1 = DK, R or NS) or (SACA_2 = DK, R or NS) or (SACA_3 = DK, R or NS) or (SACA_4 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation
NA	SACA_1 = NA	Population exclusions – optional content not selected

**Use total from SACA to assign value to SACADTOT:**

Value of SACADTOT	Condition(s)	Explanation
1	0 <= SACA < 5	Less than 5 hours
2	5 <= SACA < 10	From 5 to 9 hours
3	10 <= SACA < 15	From 10 to 14 hours
4	15 <= SACA < 20	From 15 to 19 hours
5	20 <= SACA < 25	From 20 to 24 hours
6	25 <= SACA < 30	From 25 to 29 hours
7	30 <= SACA < 35	From 30 to 34 hours
8	35 <= SACA < 40	From 35 to 39 hours
9	40 <= SACA < 45	From 40 to 44 hours
10	45 <= SACA < 96	More than 45 hours
NS	SACA = DK, R or NS	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation
NA	SACA = NA	Population exclusions – optional content not selected

## Injuries (11 DVs)

### 1) Cause of injury

**Variable name:** INJAGCAU

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

**Description:** The following variable describes the respondent's cause of injury.

**Technical Specs:** This variable is created from the merging of the "fall" indicator and the list of "other causes of injury". A value of N/A will be assigned to respondents not injured in the past 12 months. A value of NS will be returned if any of the questions were not answered (don't know, refusal, not stated).

Value of INJAGCAU	Condition(s)	Explanation
1	INJA_10=1	Fall (excluding transport)
2	INJA_12=1	Transportation accident
3	INJA_12= 2, 3	Accidentally bumped, pushed, bitten, etc. by person or animal, or accidentally struck or crushed by object
4	INJA_12= 4, 6	Accidental contact – sharp object, tool, machine, hot object, liquid or gas
5	INJA_12=8	Overexertion or strenuous movement
6	INJA_12=5,7,9,10	Other
NS	(INJA_10=2, DK, R or NS) and (INJA_12=DK, R or NS)	Respondent did not answer at least one of the questions required for the variable.
NA	INJA_01=2	Respondent was not injured in past 12 months.

### 2) Injury Status

**Variable name:** INJADSTT

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

**Description:** The following variable describes the injury status of the respondent.

Value of INJADSTT	Condition(s)	Explanation
0	INJA_01=2 and INJA_16=2	No injuries
1	INJA_01=1 and INJA_16=2	Activity-limiting injury only
2	INJA_01=2 and INJA_16=1	Treated (non-activity limiting) injury only
3	INJA_01=1 and INJA_16=1	Both activity-limiting and treated (non-activity limiting) injuries
NS	(INJA_01=DK, R, or NS) or (INJA_16=DK, R, or NS)	Respondent did not answer one of the questions required.

### 3) Most Serious Injury

**Variable name:** INJAG05

**Based on:** INJA\_05

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

Value of INJAG05	Condition(s)	Explanation
1	INJA_05 = 1	Multiple injuries
2	INJA_05 = 2	Broken/fractured bones
3	INJA_05 = 3, 9	Burn/Scald/Chemical/ Poisoning
4	INJA_05 = 4	Dislocation
5	INJA_05 = 5	Sprain/strain
6	INJA_05 = 6	Cut/puncture/bite
7	INJA_05 = 7	Scrape/bruise/blister
8	INJA_05 = 8, 10	Concussion/internal injury
9	INJA_05 = 11	Other
NS	INJA_05 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
NA	INJA_05 = NA	Not applicable

### 4) Most Serious Injury – body part affected

**Variable name:** INJAG06

**Based on:** INJA\_06

**Description:** The following variable groups the responses of most serious injury by body part affected.

Value of INJAG06	Condition(s)	Explanation
1	INJA_06 = 1	Multiple sites
2	INJA_06 = 2, 3, 4	Eyes/head/neck
3	INJA_06 = 5	Shoulder/upper arm
4	INJA_06 = 6	Elbow/lower arm
5	INJA_06 = 7	Wrist/hand
6	INJA_06 = 8, 9, 10, 11	Hip/thigh/knee, lower leg/ankle, foot
7	INJA_06 = 12, 13	Upper or lower back/spine
8	INJA_06 = 14, 15	Chest or abdomen or pelvis(excl. back and spine)
NS	INJA_06 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
NA	INJA_06 = NA	Not applicable

## 5) Most Serious Injury – Place of occurrence

**Variable name:** INJAG08

**Based on:** INJA\_08

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

Value of INJAG08	Condition(s)	Explanation
1	INJA_08 = 1	In a home or its surrounding area
2	INJA_08 = 2, 3, 4	Residential institution/school, college, university/other institution
3	INJA_08 = 5	Sports or athletic area
4	INJA_08 = 6	Street, highway, sidewalk
5	INJA_08 = 7, 8, 9	Commercial area/industrial or construction area/farm
6	INJA_08 = 10	Other
NS	INJA_08 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
NA	INJA_08 = NA	Not applicable

## 6) Most Serious Injury – Activity when injured

**Variable name:** INJAG09

**Based on:** INJA\_09

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

Value of INJAG09	Condition(s)	Explanation
1	INJA_09 = 1, 2	Sport or physical exercise/leisure or hobby
2	INJA_09 = 3	Work at a job or business
3	INJA_09 = 4, 5	Household chores, other unpaid work/sleeping, eating, personal care
4	INJA_09 = 6	Other
NS	INJA_09 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
NA	INJA_09 = NA	Not applicable

## 7) Most Serious Injury – How fell

**Variable name:** INJAG11

**Based on:** INJA\_11

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

Value of INJAG11	Condition(s)	Explanation
1	INJA_11 = 1, 3	While skating, skiing, snowboarding etc./slip, trip, stumble on ice or snow
2	INJA_11 = 2, 5, 6	Going up or down stairs/steps/from furniture/from elevated position
3	INJA_11 = 4	Slip, trip, stumble on any other surface
4	INJA_11 = 7	Other
NS	INJA_11 = DK, R or NS	Respondent did not answer (don't know, refusal, not specified)
NA	INJA_11 = NA	Not applicable

## 8) Most Serious Injury – Treated in a clinic

**Variable name:** INJAG14C

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

**Description:** The following variable indicates whether the most serious injury of the respondent was treated in a clinic.

Value of INJAG14C	Condition(s)	Explanation
1	INJA_14C = 1 or INJA_14D = 1 or INJA_14E = 1 or INJA_14F = 1	Treated in a clinic
2	INJA_14C = 2 and INJA_14D = 2 and INJA_14E = 2 and INJA_14F = 2	Not treated in a clinic
DK	INJA_14C = DK and INJA_14D = DK and INJA_14E = DK and INJA_14F = DK	Don't know
R	INJA_14C = R and INJA_14D = R and INJA_14E = R and INJA_14F = R	Refusal
NS	INJA_14C = NS and INJA_14D = NS and INJA_14E = NS and INJA_14F = NS	Not stated
NA	INJA_14C = NA and INJA_14D = NA and INJA_14E = NA and INJA_14F = NA	Not applicable

## 9) Most Serious Injury – Treated at work/school/home

**Variable name:** INJAG14G

**Based on:** INJA\_14G, INJA\_14H, INJA\_14I

**Description:** The following variable indicates whether the most serious injury of the respondent was treated at work, school or home.

Value of INJAG14G	Condition(s)	Explanation
1	INJA_14G = 1 or INJA_14H = 1 or INJA_14I = 1	Treated at work/school/home
2	INJA_14G = 2 and INJA_14H = 2 and INJA_14I = 2	Not treated at work/school/home
DK	INJA_14G = DK and INJA_14H = DK and INJA_14I = DK	Don't know
R	INJA_14G = R and INJA_14H = R and INJA_14I = R	Refusal
NS	INJA_14G = NS and INJA_14H = NS and INJA_14I = NS	Not stated
NA	INJA_14G = NA and INJA_14H = NA and INJA_14I = NA	Not applicable

## 10) Most Serious Injury – Treated by telephone consultation or other

**Variable name:** INJAG14J

**Based on:** INJA\_14J, INJA\_14K

**Description:** The following variable indicates whether the most serious injury of the respondent was treated by telephone consultation or in other place.

Value of INJAG14G	Condition(s)	Explanation
1	INJA_14J = 1 or INJA_14K = 1	Treated by telephone consultation or other
2	INJA_14J = 2 and INJA_14K = 2	Not treated by telephone consultation or other
DK	INJA_14J = DK and INJA_14K = DK	Don't know
R	INJA_14J = R and INJA_14K = R	Refusal
NS	INJA_14J = NS and INJA_14K = NS	Not stated
NA	INJA_14J = NA and INJA_14K = NA	Not applicable

## 11) Repetitive strain injury

**Variable name:** REPAG3

**Based on:** REPA\_3

**Description:** The following variable indicates the body part affected by the repetitive strain injury.

Value of INJAG11	Condition(s)	Explanation
1	REPA_3 = 2	Neck
2	REPA_3 = 3	Shoulder/upper arm
3	REPA_3 = 4	Elbow/lower arm
4	REPA_3 = 5	Wrist/hand
5	REPA_3 = 8	Knee/lower leg
6	REPA_3 = 9	Ankle/foot
7	REPA_3 = 10	Upper back/upper spine
8	REPA_3 = 11	Lower back/lower spine
9	REPA_3 = 1 or REPA_3 = 6 or REPA_3 = 7 or REPA_3 = 12, REPA_3 = 13	Other(includes head, hip, thigh, chest, abdomen or pelvis)
NS	REPA_3 = NS	Respondent did not answer (don't know, refusal, not specified)
NA	REPA_3 = NA	Not applicable



## Health Utility Index (HUI) (9 DVs)

### 1) Vision trouble (function code)

**Variable name:** HUIAGVIS

**Based on:** Concatenation of HUIA\_01||HUIA\_02||HUIA\_03||HUIA\_04||HUIA\_05

**Description:** The following variable classifies the respondent based on his/her vision state.

**Note** Example of concatenation: If HUIA\_01=2, HUIA\_02=1, HUIA\_03=6, HUIA\_04=1, HUIA\_05=6 then the condition becomes 21616 and the value of HUIAGVIS is 2.

Value of HUIAGVIS	Condition(s)	Explanation
1	16616	No visual problems
2	16621 or 21616 or 21621	Problems corrected by lenses (distance, close, or both)
3	16622 or 21622	Problems seeing distance – not corrected
4	22116 or 22121	Problems seeing close – not corrected
5	22122 or 22266	Problem seeing close and distance – not corrected, or no sight at all
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

### 2) Hearing problems (function code)

**Variable name:** HUIAGHER

**Based on:** Concatenation of HUIA\_06||HUIA\_07||HUIA\_07A||HUIA\_08||HUIA\_09

**Description:** The following variable classifies the respondent based on his/her hearing state.

Value of HUIAGHER	Condition(s)	Explanation
1	16666	No hearing problems
2	21616 or 21621 or 21622	Problem hearing in group and/or individual - corrected
3	22116 or 22121 or 22122 or 22266	Problem hearing in group – not corrected; Problem hearing in group and individual – individual corrected; Cannot hear
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

**3) Speech trouble (function code)****Variable name:** HUIAGSPE**Based on:** Concatenation of HUIA\_10||HUIA\_11||HUIA\_12||HUIA\_13**Description:** The following variable classifies the respondent based on his/her state of speech trouble.

Value of HUIAGSPE	Condition(s)	Explanation
1	1666	No speech problems
2	2116 or 2121 or 2216 or 2221 or 2122 or 2222	Partially or not understood
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

**4) Mobility trouble (function code)****Variable name:** HUIAGMOB**Based on:** Concatenation of HUIA\_14||HUIA\_15||HUIA\_16||HUIA\_17||HUIA\_18**Description:** The following variable classifies the respondent based on his/her state of mobility trouble.

Value of HUIAGMOB	Condition(s)	Explanation
1	16666	No mobility problems
2	21222	Problem – no aid required
3	21122 or 21121 or 21221	Problem – requires mechanical support or wheelchair
4	21111 or 21112 or 21211 or 21212 or 22661 or 22662	Problem – requires help from people or cannot walk
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

**5) Dexterity trouble (function code)****Variable name:** HUIAGDEX**Based on:** Concatenation of HUIA\_21||HUIA\_22||UI\_23||UI\_24**Description:** The following variable classifies the respondent based on his/her state of dexterity trouble.

Value of HUIAGDEX	Condition(s)	Explanation
1	1666	No dexterity problems
2	2262	Dexterity problem – no help required
3	2261 or 2111 or 2112 or 2121 or 2122 or 2131 or 2132 or 2141 or 2142	Dexterity problem – requires help
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

**6) Emotional problems (function code)****Variable name:** HUIADEMO**Based on:** HUIA\_25**Description:** The following variable classifies the respondent based on his/her level of emotional problems.

Value of HUIADEMO	Condition(s)	Explanation
1	HUIA_25 = 1	Happy and interested in life
2	HUIA_25 = 2	Somewhat happy
3	HUIA_25 = 3	Somewhat unhappy
4	HUIA_25 = 4	Very unhappy
5	HUIA_25 = 5	So unhappy that life is not worthwhile
NS	HUIA_25 = DK, R, NS	Respondent did not answer question (don't know, refusal, not specified)

**7) Cognition (function code)****Variable name:** HUIADCOG**Based on:** Concatenation of HUIA\_26||HUIA\_27**Description:** The following variable classifies the respondent based on his/her level of cognitive problems.

Value of HUIADCOG	Condition(s)	Explanation
1	11	No cognitive problems
2	12 or 13	A little difficulty thinking
3	21	Somewhat forgetful
4	22 or 23	Somewhat forgetful / a little difficulty thinking
5	14 or 24 or 31 or 32 or 33 or 34	Very forgetful / great deal of difficulty thinking
6	15 or 25 or 35 or 41 or 42 or 43 or 44 or 45	Unable to remember or to think
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

## 8) Activities prevented / pain (function code)

**Variable name:** HUIADPAD

**Based on:** Concatenation of HUIA\_28||HUIA\_30

**Description:** The following variable classifies the respondent based on his/her activity limitation due to pain or discomfort.

Value of HUIADPAD	Condition(s)	Explanation
1	16	No pain or discomfort
2	21	Pain does not prevent activity
3	22	Pain prevents a few activities
4	23	Pain prevents some activities
5	24	Pain prevents most activities
NS	Otherwise	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation.

## 9) Health utility index (HUI3)

**Variable name:** HUIADHSI

**Based on:** HUIADVIS, HUIADHER, HUIADSPE, HUIADMOB, HUIADDEX, HUIADEMO, HUIADCOG, HUIADPAD

**Description:** The Health Status Index or Health Utility Index (HUI) is a generic health status index that is able to synthesize both quantitative and qualitative aspects of health. The index, developed at McMaster University's Centre for Health Economics and Policy Analysis, is based on the Comprehensive Health Status Measurement System (CHSMS). It provides a description of an individual's overall functional health, based on eight attributes: vision, hearing, speech, mobility (ability to get around), dexterity (use of hands and fingers), cognition (memory and thinking), emotion (feelings), and pain and discomfort.

In addition to describing functional health status levels, the CHSMS is the basis for HUI3. The HUI3 is a single numerical value for any possible combination of levels of these eight self-reported health attributes. The HUI3 maps any one of the vectors of eight health attribute levels into a summary health value between -0.360 and 1. For instance, an individual who is near-sighted, yet fully healthy on the other seven attributes, receives a score of 0.973. On that scale, the most preferred health level (perfect health) is rated 1.000 and death is rated 0.000, while negative scores reflect health states considered worse than death.

The scores of the HUI embody the views of society concerning health status. These views are termed societal preferences, since preferences about various health states are elicited from a representative sample of individuals.

The HUI3 (Mark 3) was developed by McMaster University's Centre for Health Economics and Policy Analysis, and is derived using societal preferences from a random sample of 500 people within the boundaries of the City of Hamilton-Wentworth, Ontario, Canada.

The algorithm mapping the questions to the CHSMS itself 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.

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

- Furlong WJ, Feeny DH, Torrance GW. "Health Utilities Index (HUI): Algorithm for determining HUI Mark 2 (HUI2)/ Mark 3 (HUI3) health status classification levels, health states, health-related quality of life utility scores and single-attribute utility score from 40-item interviewer-administered health status questionnaires. Dundas, Canada: Health Utilities Inc. February 1999.

- Furlong WJ, Feeny DH, Torrance GW, et al. "Multiplicative multi-attribute utility function for the Health Utilities Index Mark 3 (HUI3) system: a technical report" Hamilton, Canada: McMaster University Centre for Health Economics and Policy Analysis Working Paper #98-11, December 1998.

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

**Source:** McMaster University

**Internet Site:** McMaster University: [www.fhs.mcmaster.ca/hug/update.htm](http://www.fhs.mcmaster.ca/hug/update.htm),  
[www.fhs.mcmaster.ca/hug/wp9811.htm](http://www.fhs.mcmaster.ca/hug/wp9811.htm), [www.healthutilities.com/hui3.htm](http://www.healthutilities.com/hui3.htm)

## Work Stress (7 DVs)

The work stress items are sub-divided into six dimensions. Respondents between the age of 15 and 75 who worked at a job or business at anytime in the past 12 months were asked to evaluate their main job in the past 12 months. The 12-item index, based on a larger pool of items from Karasek, reflects a respondent's perceptions about various dimensions of his/her work including job security, social support, monotony, physical effort required, and extent of participation in decision-making. Higher scores indicate greater work stress.

To measure work stress, the survey asks participants to rank responses to the following 12 statements using a five-point scale, ranging from "strongly agree" (a score of 1) to "strongly disagree" (a score of 5).

### Temporary Reformat

Reformat	Explanation
if WSTA_401 <= 5 then WSTA_401 = (WSTA_401 - 1) if WSTA_402 <= 5 then WSTA_402 = (WSTA_402 - 1) if WSTA_403 <= 5 then WSTA_403 = (WSTA_403 - 1) if WSTA_404 <= 5 then WSTA_404 = (WSTA_404 - 1) if WSTA_405 <= 5 then WSTA_405 = (WSTA_405 - 1) if WSTA_406 <= 5 then WSTA_406 = (WSTA_406 - 1) if WSTA_407 <= 5 then WSTA_407 = (WSTA_407 - 1) if WSTA_408 <= 5 then WSTA_408 = (WSTA_408 - 1) if WSTA_409 <= 5 then WSTA_409 = (WSTA_409 - 1) if WSTA_410 <= 5 then WSTA_410 = (WSTA_410 - 1) if WSTA_411 <= 5 then WSTA_411 = (WSTA_411 - 1) if WSTA_412 <= 5 then WSTA_412 = (WSTA_412 - 1)	Rescale the answers for questions WSTA_401 to WSTA_412 from 1 - 5 to 0 - 4 for all questions with valid response categories.
if WSTA_404 <= 4 then WSTA_404 = (4 - WSTA_404) if WSTA_405 <= 4 then WSTA_405 = (4 - WSTA_405) if WSTA_408 <= 4 then WSTA_408 = (4 - WSTA_408) if WSTA_410 <= 4 then WSTA_410 = (4 - WSTA_410)	Invert scale of rescaled questions WSTA_404, WSTA_405, WSTA_408, WSTA_410 where these questions have valid response categories (i.e. response codes from 0 to 4).

### 1) Work stress scale – all items

**Variable name:** WSTADALL

**Based on:** WSTA\_401 TO WSTA\_412

**Description:** The following variable determines the respondent's perception about all dimensions of their work.

**Technical Specs:** The method proposed by Blair Wheaton from the University of Toronto with respect to stress variables was used in order to allow for a number of missing values. The stress index has been calculated using the mean of "true" answers adjusted by the number of questions to answer.

- $DV = \text{Mean} * \text{Total number of questions asked}$
- $\text{Mean} = \text{Sum of "true" answers} / (\text{number of "true" + "false" answers to questions asked})$

This method is similar to using the sum of all "True" answers except when there are some missing values ("Don't know", "Refusal", or "Not stated"). "Don't know" answers are treated as missing values. It was decided that up to a maximum of 25% of "Don't know", "Refusals" or "Not stated" answers would be allowed in order to compute the index. In other words, up to three "Don't know", "Refusals" or "Not stated" answers are permitted.

Value of WSTADALL	Condition(s)	Explanation
(Sum of all valid responses / # of valid responses)*12  (round to nearest integer)  (min: 0 ; max: 48)	3 or less of: WSTA_401 through WSTA_412 = DK, R or NS Rest are Valid (>=0 and <=4)	Valid response codes for required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	4 or more of: WSTA_401 through WSTA_412 = DK, R, NS	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

## 2) Work stress scale - decision latitude: skill discretion

**Variable name:** WSTADSKI

**Based on:** WSTA\_401, WSTA\_402, WSTA\_404

**Description:** The following variable determines the respondent's task variety at main job in the past 12 months. Questions are asked about whether the respondent was required to keep learning new things, or if his/her job required high level of skill and creativity.

Value of WSTADSKI	Condition(s)	Explanation
WSTA_401 + WSTA_402 + WSTA_404  (min: 0 ; max: 12)	(WSTA_401 >= 0 and <= 4) and (WSTA_402 >= 0 and <= 4) and (WSTA_404 >= 0 and <= 4)	Valid response codes for all required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_401 = DK,R, NS) or (WSTA_402 = DK,R, NS) or (WSTA_404 = DK,R, NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

## 3) Work stress scale - decision latitude: decision authority

**Variable name:** WSTADAUT

**Based on:** WSTA\_403, WSTA\_409

**Description:** The following variable determines whether the respondent's main job in the past 12 months allowed them freedom in how to do their job and if they have a lot of say of what happened in their job.

Value of WSTADAUT	Condition(s)	Explanation
WSTA_403 + WSTA_409 (min: 0 ; max: 8)	(WSTA_403 >= 0 and <= 4) and (WSTA_409 >= 0 and <= 4)	Valid response codes for all required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_403 = DK, R, NS) or (WSTA_409 = DK, R, NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

#### 4) Work stress scale - psychological demands

**Variable name:** WSTADPSY

**Based on:** WSTA\_405, WSTA\_406

**Description:** The following variable determines if the respondent was free from conflicting demands that others make and if their main job in the past 12 months was very hectic.

Value of WSTADPSY	Condition(s)	Explanation
WSTA_405 + WSTA_406 (min: 0 ; max: 8)	(WSTA_405 >= 0 and <= 4) and (WSTA_406 >= 0 and <= 4)	Valid response codes for all required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_405 = DK, R, NS) or (WSTA_406 = DK, R, NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

#### 5) Work stress scale - job insecurity

**Variable name:** WSTADJIN

**Based on:** WSTA\_407

**Description:** The following variable determines if the respondent feels that their main job's security was good.

Value of WSTADJIN	Condition(s)	Explanation
WSTA_407 (min: 0 ; max: 4)	(WSTA_407 >= 0 and <= 4)	Valid response codes for all required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_407 = DK,R, NS)	Respondent did not answer (don't know, refusal, not stated) the question required.
NA	WSTA_401 = NA	Population exclusions – Optional content not selected; age < 15 or age > 75; GENA_08 <> 1



## 6) Work stress scale - physical exertion

**Variable name:** WSTADPHY

**Based on:** WSTA\_408

**Description:** The following variable determines whether the main job in the past 12 months required a lot of physical effort.

Value of WSTADPHY	Condition(s)	Explanation
WSTA_408 (min: 0 ; max: 4)	(WSTA_408 >= 0 and <= 4)	Valid response codes for the required question.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_408 = DK, R, NS)	Respondent did not answer (don't know, refusal, not stated) the question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

## 7) Work stress scale - social support

**Variable name:** WSTADSOC

**Based on:** WSTA\_410, WSTA\_411, WSTA\_412

**Description:** The following variable determines whether or not the supervisor and the people the respondent worked with are helpful in getting the job done. Also, to determine if the respondent is exposed to hostility or conflict from the people they worked with at the main job in the past 12 months.

Value of WSTADSOC	Condition(s)	Explanation
WSTA_410 + WSTA_411 + WSTA_412 (min: 0 ; max: 12)	(WSTA_410 >= 0 and >= 4) and (WSTA_411 >= 0 and >= 4) and (WSTA_412 >= 0 and >= 4)	Valid response codes for all required questions in the section.
NS	ADMA_PRX=1	Section not asked by proxy
NS	(WSTA_410 = DK, R, NS) or (WSTA_411 = DK, R, NS) or (WSTA_412 = DK, R, NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	WSTA_401 = NA	Population exclusions - Optional content not selected; age < 15 or age > 75; GENA_08 <> 1

Self-Esteem (1 DV)**Temporary Reformats**

<b>Reformat</b>	<b>Explanation</b>
if SFEA_501 <= 5 then SFEA_501 = (5 - SFEA_501) if SFEA_502 <= 5 then SFEA_502 = (5 - SFEA_502) if SFEA_503 <= 5 then SFEA_503 = (5 - SFEA_503) if SFEA_504 <= 5 then SFEA_504 = (5 - SFEA_504) if SFEA_505 <= 5 then SFEA_505 = (5 - SFEA_505)	Invert and rescale the answers for questions SFEA_501 to SFEA_505 from 1 - 5 to 4 - 0 for all questions with response categories.
if SFEA_506 <= 5 then SFEA_506 = (SFEA_506 - 1)	Rescale the answers to question SFEA_506 where this question has a valid response category.

**1) Self-esteem scale****Variable name:** SFEADE1**Based on:** SFEA\_501 TO SFEA\_506

**Description:** The self-esteem index reflects the amount of positive feelings an individual holds about his/herself. Scores on the index are based on a subset of items from the self-esteem Rosenberg scale (1969). The six items have been factored into one dimension in the factor analysis done by Pearlin and Schooler (1978). Higher scores indicate greater self-esteem.

**Source:** Rosenberg, Morris, Conceiving the Self, Appendix A, 1979, 291-295

<b>Value of SFEADE1</b>	<b>Condition(s)</b>	<b>Explanation</b>
SFEA_501 + SFEA_502 + SFEA_503 + SFEA_504 + SFEA_505 + SFEA_506 (min: 0, max: 24)	(SFEA_501 >= 0 and <= 4) and (SFEA_502 >= 0 and <= 4) and (SFEA_503 >= 0 and <= 4) and (SFEA_504 >= 0 and <= 4) and (SFEA_505 >= 0 and <= 4) and (SFEA_506 >= 0 and <= 4)	Valid response codes for all questions in the section.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(SFEA_501 = DK, R or NS) or (SFEA_502 = DK, R or NS) or (SFEA_503 = DK, R or NS) or (SFEA_504 = DK, R or NS) or (SFEA_505 = DK, R or NS) or (SFEA_506 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question in the section.
NA	SFEA_501 = NA	Population exclusions – Optional content not selected

## Mastery (1 DV)

### Temporary Reformats

Reformat	Explanation
IF MASA_601 <= 5 THEN MASA_601 = (MASA_601 - 1) IF MASA_602 <= 5 THEN MASA_602 = (MASA_602 - 1) IF MASA_603 <= 5 THEN MASA_603 = (MASA_603 - 1) IF MASA_604 <= 5 THEN MASA_604 = (MASA_604 - 1) IF MASA_605 <= 5 THEN MASA_605 = (MASA_605 - 1) IF MASA_606 <= 5 THEN MASA_606 = (MASA_606 - 1) IF MASA_607 <= 5 THEN MASA_607 = (MASA_607 - 1)	Rescale the answers for questions MASA_601 to MASA_607 from 1 - 5 to 0 - 4 for all questions with response categories.
IF MASA_606 <= 4 THEN MASA_606 = (4 - MASA_606) IF MASA_607 <= 4 THEN MASA_607 = (4 - MASA_607)	Invert scale for rescaled questions MASA_606 and MASA_607 where these questions have valid response categories.

### 1) Mastery scale

**Variable name:** MASADM1

**Based on:** MASA\_601 TO MASA\_607

**Description:** The index which measures sense of mastery is based on the work of Rosenberg, Pearlin and Schooler (1978). It measures the extent to which individuals believe that their life chances are under their control. Higher scores indicate superior mastery. Respondents' answers are based on a 5-point scale.

**Source:** Perlin, LI and Schooler, C, Journal of Health and Social Behavior, « The Structure of Coping », 1981, vol 19, p. 2-21. Electronic version available on the site: [www.jstor.org/](http://www.jstor.org/)

Value of MASADM1	Condition(s)	Explanation
MASA_601 + MASA_602 + MASA_603 + MASA_604 + MASA_605 + MASA_606 + MASA_607  (min: 0, max: 28)	(MASA_601 >= 0 and <= 4) and (MASA_602 >= 0 and <= 4) and (MASA_603 >= 0 and <= 4) and (MASA_604 >= 0 and <= 4) and (MASA_605 >= 0 and <= 4) and (MASA_606 >= 0 and <= 4) and (MASA_607 >= 0 and <= 4)	Valid response codes for all questions in the section.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(MASA_601 = DK, R or NS) or (MASA_602 = DK, R or NS) or (MASA_603 = DK, R or NS) or (MASA_604 = DK, R or NS) or (MASA_605 = DK, R or NS) or (MASA_606 = DK, R or NS) or (MASA_607 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question in the section.
NA	MASA_601 = NA	Population exclusions – Optional content not selected

## Smoking (2 DVs)

### 1) Type of smoker

**Variable name:** SMKADSTY

**Based on:** SMKA\_01A, SMKA\_01B, SMKA\_202, SMKA\_05D

**Description:** The following variable describes the type of smoker the respondent is, based on his/her smoking habits.

Value of SMKADSTY	Condition(s)	Explanation
1	SMKA_202 = 1	Daily smoker
2	(SMKA_202 = 2) and (SMKA_05D = 1)	Occasional smoker but former daily smoker
3	(SMKA_202 = 2) and (SMKA_05D = 2 or NA)	Always an occasional smoker
4	(SMKA_202 = 3) and (SMKA_05D = 1)	Former daily smoker, non-smoker now
5	(SMKA_202 = 3) and [(SMKA_05D = 2) and (SMKA_01A = 1) or (SMKA_01B = 1)]	Former occasional smoker (at least 1 whole cigarette), non-smoker now
6	(SMKA_202 = 3) and (SMKA_01B = 2) and (SMKA_01A = 2)	Never smoked a whole cigarette, non-smoker
NS	(SMKA_01A = DK, R or NS) or (SMKA_01B = DK, R or NS) or (SMKA_202 = DK, R or NS) or (SMKA_05D = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation.

### 2) Number of years smoked (current daily smokers only)

**Variable name:** SMKADYCS

**Based on:** SMKADSTY, SMKA\_203, DHHA\_AGE

**Description:** The following variable determines the number of years the respondent has smoked. For daily smokers, the number of years smoked is calculated by subtracting the value in SMKA\_203 from their current age.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of SMKADYCS	Condition(s)	Explanation
DHHA_AGE – SMKA_203 Min: 0; max: (DHHA_AGE)-5	(SMKADSTY = 1) and (SMKA_203 <= DHHA_AGE)	Valid response codes.
NS	(SMKADSTY = NS) or (SMKA_203 = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation.
NA	SMKADSTY <> 1 or NS	Not a current daily smoker

## Smoking Cessation Aids (1 DV)

### 1) Attempted/successful quitting

**Variable name:** SCAADQUI

**Based on:** SMKADSTY, SMKA\_202, SMKA\_06A, SMKA\_09A, SCAA\_5

**Description:** The following variable indicates whether the respondent attempted to stop smoking and if the attempt was successful.

Value of SCAADQUI	Condition(s)	Explanation
1	(SMKA_202 = 1 or 2) and (SCAA_5 = 2)	Didn't try to quit last year – current daily or occasional smoker
2	(SMKA_202 = 1 or 2) and (SCAA_5 = 1)	Tried to quit unsuccessfully in the last year
3	(SMKADSTY = 4 or 5) and [(SMKA_06A = 1) or (SMKA_09A = 1)]	Successfully quit in the last year
4	(SMKADSTY = 4 or 5) and [(SMKA_06A >=2 and <=4) or (SMKA_09A >=2 and <=4)]	Successfully quit more than 1 year ago
NS	(SMKADSTY = NS) or (SMKA_06A = DK, R or NS) or (SMKA_09A = DK, R or NS) or (SCAA_5 = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation.
NS	ADMA_PRX = 1	Section not asked by proxy.
NA	SCAAFOPT = 2	Population exclusion -Optional content not selected
NA	SMKA_202 = 3 and SMKA_01A = 2	Respondent never smoked or smoked less than 100 cigarettes in lifetime.

## Alcohol (3 DVs)

### 1) Type of drinker

**Variable name:** ALCADTYP

**Based on:** ALCA\_2, ALCA\_5B

**Description:** The following variable determines the type of drinker the respondent is based on his/her drinking habits.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of ALCADTYP	Condition(s)	Explanation
1	ALCA_2 >1 and < NA	Regular drinker
2	ALCA_2 =1	Occasional drinker
3	ALCA_5B=1	Former drinker
4	ALCA_5B=2	Never drank
NS	(ALCA_2= DK, R or NS) or (ALCA_5B = DK, R or NS)	Respondent didn't answer question (don't know, refusal, not stated)

### 2) Weekly consumption

**Variable name:** ALCADWKY

**Based on:** ALCA\_1, ALCA\_5A1, ALCA\_5A2, ALCA\_5A3, ALCA\_5A4, ALCA\_5A5, ALCA\_5A6, ALCA\_5A7

**Description:** The following variable represents the sum of numbers of drinks consumed on all days, in the week prior to the interview. This derived variable is calculated only for those respondents who had at least one drink in the last 12 months.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of ALCADWKY	Condition(s)	Explanation
(ALCA_5A1 + ALCA_5A2 + ALCA_5A3 + ALCA_5A4 + ALCA_5A5 + ALCA_5A6 + ALCA_5A7)  min : 0, max : 693	(ALCA_5A1 >= 0 and < 100) and (ALCA_5A2 >= 0 and < 100) and (ALCA_5A3 >= 0 and < 100) and (ALCA_5A4 >= 0 and < 100) and (ALCA_5A5 >= 0 and < 100) and (ALCA_5A6 >= 0 and < 100) and (ALCA_5A7 >= 0 and < 100)	Alcohol consumed last week
0	ALCA_5A1 = NA	Respondent hasn't had a drink in last week
NS	(ALCA_5A1= DK, R or NS) or (ALCA_5A2 = DK, R or NS) or (ALCA_5A3 = DK, R or NS) or (ALCA_5A4 = DK, R or NS) or (ALCA_5A5 = DK, R or NS) or (ALCA_5A6 = DK, R or NS) or (ALCA_5A7 = DK, R or NS)	Respondent didn't answer question (don't know, refusal, not stated)
NA	ALCA_1=2	Respondent hasn't had a drink in the past year

### 3) Average daily alcohol consumption

**Variable name:** ALCADDLY

**Based on:** ALCADWKY

**Description:** The following variable represents the average number of drinks the respondent consumed per day, and is calculated by taking the weekly total alcohol consumption and dividing it by 7. This derived variable is calculated only for those respondents who had at least one drink in the last 12 months.

**Source:** General Social Survey - Health, Cycle 6 (1991)

**Statistics Canada's Web Site:** <http://www.statcan.ca/english/sdds/3894.htm>

Value of ALCADDLY	Condition(s)	Explanation
ALCADWKY / 7 (Round to integer) Min: 0; max: 99	ALCADWKY < 694	Average daily alcohol consumption
NS	ALCADWKY = NS	Respondent didn't answer question
NA	ALCADWKY = NA	Not applicable

### Alcohol Dependence/Abuse (2 DVs)

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

#### Temporary Reformats

Reformat	Explanation
IF ALDA_1 = 1 or 2 THEN ALDA_1 = (2 - ALDA_1) IF ALDA_3 = 1 or 2 THEN ALDA_3 = (2 - ALDA_3) IF ALDA_4 = 1 or 2 THEN ALDA_4 = (2 - ALDA_4) IF ALDA_5 = 1 or 2 THEN ALDA_5 = (2 - ALDA_5) IF ALDA_6 = 1 or 2 THEN ALDA_6 = (2 - ALDA_6) IF ALDA_7 = 1 or 2 THEN ALDA_7 = (2 - ALDA_7) IF ALDA_9 = 1 or 2 THEN ALDA_9 = (2 - ALDA_8)	Rescale and invert the answers for questions ALDA_1 to ALDA_9 (except ALDA_2 and ALDA_8) from 1 and 2 to 1 and 0 respectively for all questions with valid response categories (i.e. old code 2 'No' becomes 0 'No', and 1 'Yes' remains the same).

#### 1) Alcohol dependence scale (short form score)

**Variable name:** ALDADSF

**Based on:** ALDA\_1, ALDA\_3, ALDA\_4, ALDA\_5, ALDA\_6, ALDA\_7, ALDA\_9

**Description:** The following variable was collected to measure the alcohol dependence of the respondent. The items used to measure alcohol dependence were based on the work of Kessler and Mroczek (from the University of Michigan). The index is based on a subset of items from the Composite International Diagnostic Interview (CIDI). The CIDI is a structure diagnostic instrument that was designed to produce diagnosis according to the definitions and criteria of both Criterion A and Criterion B of the DSM-III-R diagnosis for psychoactive substance use disorder.

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

**Internet Site:** Institute for Social Research / Survey Research Center, University of Michigan: [www.isr.umich.edu/src/](http://www.isr.umich.edu/src/)

Composite International Diagnostic Interview (CIDI): [www.who.int/msa/cidi/index.htm](http://www.who.int/msa/cidi/index.htm)

Value of ALDADSF	Condition(s)	Explanation
ALDA_1 + ALDA_3 + ALDA_4 + ALDA_5 + ALDA_6 + ALDA_7 + ALDA_9  Min: 0; max: 7	(ALDA_1 = 0 or 1) and (ALDA_3 = 0 or 1) and (ALDA_4 = 0 or 1) and (ALDA_5 = 0 or 1) and (ALDA_6 = 0 or 1) and (ALDA_7 = 0 or 1) and (ALDA_9 = 0 or 1)	Respondent answered yes or no to all questions required for calculation
0	ALDA_1 = NA	Respondent didn't have 5 or more drinks.
NS	ADMA_PRX = 1	Section not asked by proxy.
NS	(ALDA_1 = DK, R or NS) or (ALDA_3 = DK, R or NS) or (ALDA_4 = DK, R or NS) or (ALDA_5 = DK, R or NS) or (ALDA_6 = DK, R or NS) or (ALDA_7 = DK, R or NS) or (ALDA_9 = DK, R or NS)	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation

## 2) Predicted probability for respondents (alcohol dependence)

**Variable name:** ALDADPP

**Based on:** ALDADDSF

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

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

**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)

Value of ALDADPP	Condition(s)	Explanation
0.00	ALDADSF = 0	Transformation of values derived in ALDADSF
0.05	ALDADSF = 1	
0.40	ALDADSF = 2	
0.85	ALDADSF = 3	
1.00	ALDADSF > 3 and < NA	
NS	ALDADSF = NS	
NA	ALDADSF = NA	



## Social Support (4 DVs)

The Medical Outcomes Study Social Support Survey (the MOS scale) provides indicators of four categories of Social Support. An initial pool of 50 items was reduced to 19 functional support items, covering five dimensions:

- Emotional support –the expression of positive affect, empathetic understanding, and the encouragement of expressions of feelings.
- Informational support –the offering of advice, information, guidance or feedback
- Tangible support –the provision of material aid or behavioural assistance
- Positive social interaction –the availability of other persons to do fun things with you
- Affection –involving expressions of love and affection

Empirical analyses indicated that emotional and informational support items should be scored together, so 4 subscales are derived:

- Tangible support (items 2, 5, 12, 15)
- Affection (items 6, 10, 20)
- Positive social interaction (items 7, 11, 14, 18)
- Emotional or informational support (items 3, 4, 8, 9, 13, 16, 17, 19)

### Temporary Reformats

Reformat	Explanation
if SSMA_02 <= 5 then SSMA_02 = (SSMA_02 - 1) if SSMA_03 <= 5 then SSMA_03 = (SSMA_03 - 1) if SSMA_04 <= 5 then SSMA_04 = (SSMA_04 - 1) if SSMA_05 <= 5 then SSMA_05 = (SSMA_05 - 1) if SSMA_06 <= 5 then SSMA_06 = (SSMA_06 - 1) if SSMA_07 <= 5 then SSMA_07 = (SSMA_07 - 1) if SSMA_08 <= 5 then SSMA_08 = (SSMA_08 - 1) if SSMA_09 <= 5 then SSMA_09 = (SSMA_09 - 1) if SSMA_10 <= 5 then SSMA_10 = (SSMA_10 - 1) if SSMA_11 <= 5 then SSMA_11 = (SSMA_11 - 1) if SSMA_12 <= 5 then SSMA_12 = (SSMA_12 - 1) if SSMA_13 <= 5 then SSMA_13 = (SSMA_13 - 1) if SSMA_14 <= 5 then SSMA_14 = (SSMA_14 - 1) if SSMA_15 <= 5 then SSMA_15 = (SSMA_15 - 1) if SSMA_16 <= 5 then SSMA_16 = (SSMA_16 - 1) if SSMA_17 <= 5 then SSMA_17 = (SSMA_17 - 1) if SSMA_18 <= 5 then SSMA_18 = (SSMA_18 - 1) if SSMA_19 <= 5 then SSMA_19 = (SSMA_19 - 1) if SSMA_20 <= 5 then SSMA_20 = (SSMA_20 - 1)	Rescale the answers from 1 to 5 to 0 to 4 for all questions with response categories  Where 0 refers to "none of the time" and a 4 refers to "all of the time".

### 1) Tangible social support – MOS subscale

**Variable name:** SSMADTNG

**Based on:** SSMA\_02, SSMA\_05, SSMA\_12, SSMA\_15

**Description:** The following variable determines the amount of tangible support that is available to the respondent. Questions about whether or not the respondent had someone to help them if they were confined to bed, take them to the doctor, prepare their meals or do their daily chores were asked.

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

Value of SSMADTNG	Condition(s)	Explanation
SSMA_02 + SSMA_05 + SSMA_12 + SSMA_15  Min : 0; max : 16	(SSMA_02 >= 0 and <= 4) and (SSMA_05 >= 0 and <= 4) and (SSMA_12 >= 0 and <= 4) and (SSMA_15 >= 0 and <= 4)	Valid response codes for all required questions
NS	ADMA_PRX = 1	Section not asked by proxy.
NS	(SSMA_02 = DK, R or NS) or (SSMA_05 = DK, R or NS) or (SSMA_12 = DK, R or NS) or (SSMA_15 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	SSMA_01 = NA	Population exclusions – optional content not selected.

## 2) Affection – MOS subscale

**Variable name:** SSMADAFF

**Based on:** SSMA\_06, SSMA\_10, SSMA\_20

**Description:** The following variable determines the amount of affection the respondent receives. Questions about whether or not the respondent has someone that shows them love, hugs them or to love them and make them feel wanted were asked.

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

Value of SSMADAFF	Condition(s)	Explanation
SSMA_06 + SSMA_10 + SSMA_20  Min : 0; max : 12	(SSMA_06 >= 0 and <= 4) and (SSMA_10 >= 0 and <= 4) and (SSMA_20 >= 0 and <= 4)	Valid response codes for all required questions
NS	ADMA_PRX = 1	Section not asked by proxy.
NS	(SSMA_06 = DK, R or NS) or (SSMA_10 = DK, R or NS) or (SSMA_20 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	SSMA_01 = NA	Population exclusions – optional content not selected.

## 3) Positive social interaction – MOS subscale

**Variable name:** SSMADSOC

**Based on:** SSMA\_07, SSMA\_11, SSMA\_14, SSMA\_18

**Description:** The following variable determines how much the respondent is involved in positive social interactions. Questions about whether the respondent has someone to have a good time with, get together with for relaxation, do things with to get their mind off things, or do something enjoyable with were asked.

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

Value of SSMADSOC	Condition(s)	Explanation
SSMA_07 + SSMA_11 + SSMA_14 + SSMA_18  Min : 0; max : 16	(SSMA_07 >= 0 and <= 4) and (SSMA_11 >= 0 and <= 4) and (SSMA_14 >= 0 and <= 4) and (SSMA_18 >= 0 and <= 4)	Valid response codes for all required questions
NS	ADMA_PRX = 1	Section not asked by proxy.
NS	(SSMA_07 = DK, R or NS) or (SSMA_11 = DK, R or NS) or (SSMA_14 = DK, R or NS) or (SSMA_18 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	SSMA_01 = NA	Population exclusions – optional content not selected.

#### 4) Emotional or informational support – MOS subscale

**Variable name:** SSMADEMO

**Based on:** SSMA\_03, SSMA\_04, SSMA\_08, SSMA\_09, SSMA\_13, SSMA\_16, SSMA\_17, SSMA\_19

**Description:** The following variable determines the amount of emotional or informational support the respondent receives. Questions about whether the respondent has someone to listen and advise them in a crisis, give them information and confide in and talk to, or understand their problems were asked.

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

Value of SSMADEMO	Condition(s)	Explanation
SSMA_03 + SSMA_04 + SSMA_08 + SSMA_09 + SSMA_13 + SSMA_16 + SSMA_17 + SSMA_19  Min : 0; max : 32	(SSMA_03 >= 0 and <= 4) and (SSMA_04 >= 0 and <= 4) and (SSMA_08 >= 0 and <= 4) and (SSMA_09 >= 0 and <= 4) and (SSMA_13 >= 0 and <= 4) and (SSMA_16 >= 0 and <= 4) and (SSMA_17 >= 0 and <= 4) and (SSMA_19 >= 0 and <= 4)	Valid response codes for all required questions
NS	ADMA_PRX = 1	Section not completed by proxy.
NS	(SSMA_03 = DK, R or NS) or (SSMA_04 = DK, R or NS) or (SSMA_08 = DK, R or NS) or (SSMA_09 = DK, R or NS) or (SSMA_13 = DK, R or NS) or (SSMA_16 = DK, R or NS) or (SSMA_17 = DK, R or NS) or (SSMA_19 = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation.
NA	SSMA_01 = NA	Population exclusions – optional content not selected.

## Mood (Bradburn Affect Balance Scale) (3 DVs)

The questions developed by Norman Bradburn were designed to indicate the psychological reactions (positive and negative) of people in the general population to events in their daily lives. An indicator of happiness or of general psychological well-being, these terms denote an individual's ability to cope with the stresses of everyday living. The scale is not concerned with detecting psychiatric or psychological disorders. An additional question is asked: Taking things all together, how would you say things are these days? Would you say you are: ...very happy ...pretty happy ...not too happy?

### Temporary Reformats

Reformat	Explanation
if MDBA_01 < 4 then MDBA_01 = (4 - MDBA_01) if MDBA_02 < 4 then MDBA_02 = (4 - MDBA_02) if MDBA_03 < 4 then MDBA_03 = (4 - MDBA_03) if MDBA_04 < 4 then MDBA_04 = (4 - MDBA_04) if MDBA_05 < 4 then MDBA_05 = (4 - MDBA_05) if MDBA_06 < 4 then MDBA_06 = (4 - MDBA_06) if MDBA_07 < 4 then MDBA_07 = (4 - MDBA_07) if MDBA_08 < 4 then MDBA_08 = (4 - MDBA_08) if MDBA_09 < 4 then MDBA_09 = (4 - MDBA_09) if MDBA_10 < 4 then MDBA_10 = (4 - MDBA_10)	Invert the answers for all questions with response categories used in the variable.  Where 0 refers to "none of the time" and a 4 refers to "all of the time".

### 1) Positive affect

**Variable name:** MDBADPOS

**Based on:** MDBA\_01, MDBA\_03, MDBA\_05, MDBA\_07, MDBA\_09

**Description:** The following variable indicates the psychological reactions (positive) of people in the general population to events in their daily lives. The scale is an indicator of happiness or of general psychological well-being, these terms denote an individual's ability to cope with the stresses of everyday living. The positive affect subscale may be used as a measure of well-being.

Value of MDBADPOS	Condition(s)	Explanation
MDBA_01 + MDBA_03 + MDBA_05 + MDBA_07 + MDBA_09  Min: 5; max: 15	(MDBA_01 > 0 and < 4) and (MDBA_03 > 0 and < 4) and (MDBA_05 > 0 and < 4) and (MDBA_07 > 0 and < 4) and (MDBA_09 > 0 and < 4) and	Respondent answered all required questions.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(MDBA_01 = DK, R, or NS) or (MDBA_03 = DK, R, or NS) or (MDBA_05 = DK, R, or NS) or (MDBA_07 = DK, R, or NS) or (MDBA_09 = DK, R, or NS) or	Respondent didn't answer (don't know, refusal, not stated) at least one of the questions required.
NA	MDBA_01 = NA	Population exclusion – Optional content not selected

## 2) Negative affect

**Variable name:** MDBADNEG

**Based on:** MDBA\_02, MDBA\_04, MDBA\_06, MDBA\_08, MDBA\_10

**Description:** The negative affect scale can be used as an indicator of psychological distress. Bradburn Affect Balance Scale is not concerned with detecting psychiatric or psychological disorders.

Value of MDBADNEG	Condition(s)	Explanation
MDBA_02 + MDBA_04 + MDBA_06 + MDBA_08 + MDBA_10  Min: 5; max: 15	(MDBA_02 > 0 and < 4) and (MDBA_04 > 0 and < 4) and (MDBA_06 > 0 and < 4) and (MDBA_08 > 0 and < 4) and (MDBA_10 > 0 and < 4)	Respondent answered all required questions.
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(MDBA_02 = DK, R, or NS) or (MDBA_04 = DK, R, or NS) or (MDBA_06 = DK, R, or NS) or (MDBA_08 = DK, R, or NS) or (MDBA_10 = DK, R, or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question required for calculation
NA	MDBA_01 = NA	Population exclusion – Optional content not selected

## 3) Balance affect – method A

**Variable name:** MDBADBA1

**Based on:** MDBADPOS, MDBADNEG

**Description:** The following variable is a good indicator of an individual's current level of psychological well-being.

**Technical Specs:** The variable was calculated by taking the difference between the scores on the positive and negative affect indices.

Value of MDBADBA1	Condition(s)	Explanation
MDBADPOS – MDBADNEG Min: -10; max: 10	(MDBADPOS >= 5 and <= 15) and (MDBADNEG >= 5 and <= 15)	Valid response codes for both variables
NS	(MDBADPOS = NS) or (MDBADNEG = NS)	Not stated
NA	(MDBADPOS = NA) or (MDBADNEG = NA)	Population exclusion- Optional content not selected

## 4) Balance affect – method B

**Variable name:** MDBADBA2

**Based on:** MDBADPOS, MDBADNEG

**Description:** The following variable determines whether the respondent has a negative, even or positive balance.

<b>Value of MDBADBA2</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	(MDBADPOS >= 5 and < 8) and (MDBADNEG >= 8 and <= 15) or (MDBADPOS >= 8 and <= 12) and (MDBADNEG > 12 and <= 15)	Negative balance
2	(MDBADPOS >= 5 and < 8) and (MDBADNEG >= 5 and < 8) or (MDBADPOS >= 8 and <= 12) and (MDBADNEG >= 8 and <= 12) or (MDBADPOS > 12 and <= 15) and (MDBADNEG > 12 and <= 15)	Even
3	(MDBADPOS >= 8 and <= 15) and (MDBADNEG >= 5 and < 8) or (MDBADPOS > 12 and <= 15) and (MDBADNEG >= 8 and <= 12)	Positive balance
NS	(MDBADPOS = NS) or (MDBADNEG = NS)	Not stated
NA	(MDBADPOS = NA) or (MDBADNEG = NA)	Population exclusion- Optional content not selected

## Distress (2 DVs)

The items and scoring used to derive the distress score are based on the work of Kessler and Mroczek (from Michigan University). The index is based on a subset of items from the Composite International Diagnostic Interview (CIDI). The CIDI is a structure diagnostic instrument that was designed to produce diagnoses according to the definitions and criteria of both DSM-III-R and the Diagnostic Criteria for Research of the ICD-10. Higher scores indicate more distress.

### Temporary Reformats

Reformat	Explanation
if DISA_01A <= 5 then DISA_01A = 5 - DISA_01A if DISA_01B <= 5 then DISA_01B = 5 - DISA_01B if DISA_01C <= 5 then DISA_01C = 5 - DISA_01C if DISA_01D <= 5 then DISA_01D = 5 - DISA_01D if DISA_01E <= 5 then DISA_01E = 5 - DISA_01E if DISA_01F <= 5 then DISA_01F = 5 - DISA_01F	Rescale and invert the answers for questions DISA_01A to DISA_01F from 1 to 5 to 4 to 0 So that 0 = None of the time and 4 = all of the time

### 1) Distress scale

**Variable name:** DISADDS

**Based on:** DISA\_01A, DISA\_01B, DISA\_01C, DISA\_01D, DISA\_01E, DISA\_01F

**Description:** The following variable determines the respondent's distress scale.

**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)

Value of DISADDS	Condition(s)	Explanation
DISA_01A + DISA_01B + DISA_01C + DISA_01D + DISA_01E + DISA_01F  Min: 0; Max: 24	(DISA_01A <= 4) and (DISA_01B <= 4) and (DISA_01C <= 4) and (DISA_01D <= 4) and (DISA_01E <= 4) and (DISA_01F <= 4)	Valid response codes for all questions.
NS	ADMA_PRX = 1	Section not answered by proxy
NS	(DISA_01A = DK, R or NS) or (DISA_01B = DK, R or NS) or (DISA_01C = DK, R or NS) or (DISA_01D = DK, R or NS) or (DISA_01E = DK, R or NS) or (DISA_01F = DK, R or NS)	Respondent did not answer (don't know, refusal, not stated) at least one question required for calculation
NA	DISA_01A = NA	Population exclusion – Optional content not selected

## 2) Chronicity of distress and impairment scale

**Variable name:** DISADCH

**Based on:** DISA\_01G, DISA\_01H, DISA\_01I

**Description:** Paired with the distress scale are the variables DISA\_01G, DISA\_01H, and DISA\_01I that assess chronicity of distress and the impairment associated with distress.

**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)

Value of DISADCH	Condition(s)	Explanation
1	DISA_01H=1	A lot more than usual
2	DISA_01H=2	Somewhat more than usual
3	DISA_01H=3	A little more than usual
4	DISA_01G=3	About the same as usual
5	DISA_01I=3	A little less than usual
6	DISA_01I=2	Somewhat less than usual
7	DISA_01I=1	A lot less than usual
8	DISA_01G=4	Never had any
NS	ADMA_PRX = 1	Section not asked by proxy.
NS	(DISA_01G = DK, R or NS) or (DISA_01H = DK, R or NS) or (DISA_01I = DK, R or NS)	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation
NA	DISA_01A = NA	Population exclusion – Optional content not selected.
NA	DISA_01G = NA	Respondent felt no distress (DISA_01A – DISA_01F all “None of the Above”) in the past month and was not asked questions required for calculation.



## Depression (4 DVs)

### Temporary Reformats

Reformat	Explanation
if DPSA_02 = 2 then DPSA_02 = 0 if DPSA_05 = 2 then DPSA_05 = 0 if DPSA_06 = 2 then DPSA_06 = 0 if DPSA_07 <= 2 and DPSA_08A <> DK, R or NS then if (DPSA_08A > 9 and DPSA_08B = 1) or (DPSA_08A > 4 and DPSA_08B = 2) then DPSA_08A = 1 else DPSA_08A = 0 if DPSA_07 = 3 or 4 then DPSA_08A = 0 if DPSA_10 = 3 or DPSA_09 = 2 then DPSA_10 = 0 if DPSA_10 = 2 then DPSA_10 = 1 if DPSA_11 = 2 then DPSA_11 = 0 if DPSA_12 = 2 then DPSA_12 = 0 if DPSA_13 = 2 then DPSA_13 = 0 if DPSA_16 = 2 then DPSA_16 = 0 if DPSA_19 = 2 then DPSA_19 = 0 if DPSA_20 <=2 and DPSA_21A <> DK, R or NS then if (DPSA_21A > 9 and DPSA_21B = 1) OR (DPSA_21A > 4 and DPSA_21B = 2) then DPSA_21A = 1 else DPSA_21A = 0 if DPSA_20 = 3 or 4 then DPSA_21A = 0 if DPSA_23 = 3 or DPSA_22 = 2 then DPSA_23 = 0 if DPSA_23 = 2 then DPSA_23 = 1 if DPSA_24 = 2 then DPSA_24 = 0 if DPSA_25 = 2 then DPSA_25 = 0 if DPSA_26 = 2 then DPSA_26 = 0	Rescale answers needed for calculation so that answers are all 1 for yes and 0 for no. <ul style="list-style-type: none"> <li>• for Q08 and Q21 answers are rescaled so = 1 if respondent gained or lost more than 9 lbs. (4 kg) and 0 if less or didn't lose/gain weight</li> <li>• for Q10 and Q23 answers are rescaled so = 1 if respondent had trouble falling asleep every night or almost every night and 0 if less often or not at all</li> </ul>

### 1) Depression scale – short form score

**Variable name:** DPSADSF

**Based on:** DPSA\_02, DPSA\_03, DPSA\_04, DPSA\_05, DPSA\_06, DPSA\_08A, DPSA\_08B, DPSA\_10, DPSA\_11, DPSA\_12, DPSA\_13, DPSA\_16, DPSA\_17, DPSA\_18, DPSA\_19, DPSA\_21A, DPSA\_21B, DPSA\_23, DPSA\_24, DPSA\_25, DPSA\_26

**Description:** The following variable assesses the respondent's depression state. The items used to measure depression are based on the work of Kessler and Mroczek. They selected a subset of items from the Composite International Diagnostic Interview (CIDI) that measure major depressive episode (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.

**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)

Value of DPSADSF	Condition(s)	Explanation
DPSA_02 + DPSA_05 + DPSA_06 + DPSA_08A + DPSA_10 + DPSA_11 + DPSA_12 + DPSA_13  min: 1; Max: 8	(DPSA_02 = 1) and (DPSA_05 = 1 or 0) and (DPSA_06 = 1 or 0) and (DPSA_08A = 1 or 0) and (DPSA_10 = 1 or 0) and (DPSA_11 = 1 or 0) and (DPSA_12 = 1 or 0) and (DPSA_13 = 1 or 0)	Valid response codes for all questions required for calculation. Respondent felt depressed for 2 weeks or more last year.
DPSA_16 + DPSA_19 + DPSA_21A + DPSA_23 + DPSA_24 + DPSA_25 + DPSA_26  min: 1; Max: 7	(DPSA_16 = 1) and (DPSA_19 = 1 or 0) and (DPSA_21A = 1 or 0) and (DPSA_23 = 1 or 0) and (DPSA_24 = 1 or 0) and (DPSA_25 = 1 or 0) and (DPSA_26 = 1 or 0)	Valid response codes for all questions required for calculation. Respondent lost interest in things for 2 weeks or more last year.
0	DPSA_02 < NA and DPSA_05 = NA and DPSA_19 = NA	Respondent did not feel depressed or lose interest in things for two weeks last year, or did so only mildly (less than most of day and at least almost everyday for at least two weeks)
NS	ADMA_PRX = 1	Section not asked by proxy
NS	(DPSA_02 = DK, R or NS) or (DPSA_05 = DK, R or NS) or (DPSA_06 = DK, R or NS) or (DPSA_08A = DK, R or NS) or (DPSA_10 = DK, R or NS) or (DPSA_11 = DK, R or NS) or (DPSA_12 = DK, R or NS) or (DPSA_13 = DK, R or NS) or (DPSA_16 = DK, R or NS) or (DPSA_19 = DK, R or NS) or (DPSA_21A = DK, R or NS) or (DPSA_23 = DK, R or NS) or (DPSA_24 = DK, R or NS) or (DPSA_25 = DK, R or NS) or (DPSA_26 = DK, R or NS)	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation
NA	DPSA_02 = NA	Population exclusion – Optional content not selected

**Note:** The Major Depressive Episode questions ask about periods during which the respondent felt sad or depressed or lost interest in everyday things within the past 12 months. These include normal periods of sadness (for example, after the death of a loved one), as well as serious depression. Initially, respondents are asked if they experienced a time when they felt sad, blue, or depressed for 2 weeks or more in a row. If they respond **NO** then question DPSA\_16 asks if they had a two-week period of losing interest in most things, which also assesses the respondent's depressive symptoms.

## 2) Depression scale – predicted probability

**Variable name:** DPSADPP

**Based on:** DPSADSF

**Description:** The predicted probability for respondents was assigned based on their short-form scores. A predicted probability of 0 was assigned to respondents who denied the stem questions.

Value of DPSADPP	Condition(s)	Explanation
0	DPSADSF = 0	The probability of caseness to respondents.
0.05	DPSADSF = 1	The probability of caseness to respondents.
0.25	DPSADSF = 2	The probability of caseness to respondents.
0.50	DPSADSF = 3	The probability of caseness to respondents.
0.80	DPSADSF = 4	The probability of caseness to respondents.
0.90	DPSADSF > 4	The probability of caseness to respondents.
NS	DPSADSF = NS	Respondent did not answer (don't know, refusal, not specified) at least one question required for calculation, or interview done by proxy
NA	DPSADSF = NA	Population exclusion – optional content not selected; age < 12

## 3) Number of weeks feeling depressed

**Variable name:** DPSADWK

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

**Description:** The following variable indicates the number of weeks the respondent felt depressed.

Value of DPSADWK	Condition(s)	Explanation
DPSA_14 Min : 2; max: 52	(DPSA_14 < NA)	# of weeks respondent was depressed in the last year
DPSA_27 Min : 2; max:52	(DPSA_14 >= NA) and (DPSA_27 < NA)	# of weeks respondent lost interest in things in the last year
NS	(DPSA_14 = DK, R or NS) or (DPSA_27 = DK, R or NS) or (DPSA_08A = DK, R or NS) or (DPSA_21A = DK, R or NS)	Respondent didn't answer the required question.
NA	DPSA_14 = NA and DPSA_27 = NA	Respondent is not depressed or is not applicable (population exclusion etc.)

#### 4) Specific month last felt depressed

**Variable name:** DPSADMT

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

**Description:** The following variable determines the specific month when the respondent last felt depressed.

Value of DPSADMT	Condition(s)	Explanation
DPSA_15 Min : 1; max:12	DPSA_14 < 52 and DPSA_15 < NA	Specific month respondent felt depressed for at least 2 weeks in a row
DPSA_28 Min : 1; max:12	DPSA_14 >= NA and DPSA_27 < 52 and DPSA_28 < NA	Specific month respondent last lost interest in things for at least 2 weeks in a row
NS	(DPSA_14 = 52, DK, R, or NS) or (DPSA_15 = DK, R, or NS) or (DPSA_27 = 52, DK, R, or NS) or (DPSA_28 = DK, R, or NS) or (DPSA_08A = DK, R or NS) or (DPSA_21A = DK, R or NS)	Respondent didn't answer the required questions, or was depressed for >51 weeks in the last year
NA	DPSA_15 = NA and DPSA_28 = NA	Respondent is not depressed or variable is not applicable (population exclusion etc.)

## Socio-Demographic Characteristics (5 DVs)

### 1) Country of birth – grouped

**Variable name:** SDCAGCBG

**Based on:** SDCACCB

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

Value of SDCAGCBG	Condition(s)	Explanation
1	SDCACCB > 0 and < 14	Canada
2	(SDCACCB >= 100 and < 900)	Other
NS	SDCACCB = 000, DK, R or NS	Respondent didn't answer question (don't know, refusal, not stated)

### 2) Immigration flag

**Variable name:** SDCAFIMM

**Based on:** SDCA\_3

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

Value of SDCAFIMM	Condition(s)	Explanation
1	SDCA_3 < NA	Valid response code; Respondent is an immigrant.
2	SDCA_3 = NA	Respondent is not an immigrant
NS	SDCA_3 = DK, R or NS	Respondent didn't answer question (don't know, refusal, not stated).

### 3) Length of time in Canada since immigration

**Variable name:** SDCAGRES

**Based on:** SDCA\_3

**Description:** The following variable gives the length of time the respondent has been in Canada since his/her immigration.

Value of SDCAGRES	Condition(s)	Explanation
1	C_YEAR (Current Year) - SDCA_3 => 0 and < 10	Valid response code.
2	C_YEAR (Current Year) - SDCA_3 => 10 or more	Valid response code.
NS	SDCA_3 = DK, R or NS	Respondent didn't answer question (don't know, refusal, not stated).
NA	SDCA_3 = NA	Respondent is not an immigrant

### 4) Language(s) in which respondent can converse

**Variable name:** SDCAGLNG

**Based on:** SDCA\_5A, SDCA\_5B, SDCA\_5C, SDCA\_5D, SDCA\_5E, SDCA\_5F, SDCA\_5G, SDCA\_5H, SDCA\_5I, SDCA\_5J, SDCA\_5K, SDCA\_5L, SDCA\_5M, SDCA\_5N, SDCA\_5O, SDCA\_5P, SDCA\_5Q, SDCA\_5R, SDCA\_5S

**Description:** The following variable represents the language(s) in which the respondent can converse.

Value of SDCAGLNG	Condition(s)	Explanation
1	(SDCA_5A = 1 and SDCA_5B > 1) and (SDCA_5C = 1 or SDCA_5D = 1 or SDCA_5E = 1 or SDCA_5F = 1 or SDCA_5G = 1 or SDCA_5H = 1 or SDCA_5I = 1 or SDCA_5J = 1 or SDCA_5K = 1 or SDCA_5L = 1 or SDCA_5M = 1 or SDCA_5N = 1 or SDCA_5O = 1 or SDCA_5P = 1 or SDCA_5Q = 1 or SDCA_5R = 1 or SDCA_5S = 1)	English (with or without language other than French)
2	(SDCA_5A > 1 and SDCA_5B = 1) and (SDCA_5C = 1 or SDCA_5D = 1 or SDCA_5E = 1 or SDCA_5F = 1 or SDCA_5G = 1 or SDCA_5H = 1 or SDCA_5I = 1 or SDCA_5J = 1 or SDCA_5K = 1 or SDCA_5L = 1 or SDCA_5M = 1 or SDCA_5N = 1 or SDCA_5O = 1 or SDCA_5P = 1 or SDCA_5Q = 1 or SDCA_5R = 1 or SDCA_5S = 1)	French (with or without language other than English)
3	(SDCA_5A = 1 and SDCA_5B = 1) and (SDCA_5C = 1 or SDCA_5D = 1 or SDCA_5E = 1 or SDCA_5F = 1 or SDCA_5G = 1 or SDCA_5H = 1 or SDCA_5I = 1 or SDCA_5J = 1 or SDCA_5K = 1 or SDCA_5L = 1 or SDCA_5M = 1 or SDCA_5N = 1 or SDCA_5O = 1 or SDCA_5P = 1 or SDCA_5Q = 1 or SDCA_5R = 1 or SDCA_5S = 1)	English and French (with or without other language)

4	(SDCA_5A > 1 and SDCA_5B > 1) and (SDCA_5C = 1 or SDCA_5D = 1 or SDCA_5E = 1 or SDCA_5F = 1 or SDCA_5G = 1 or SDCA_5H = 1 or SDCA_5I = 1 or SDCA_5J = 1 or SDCA_5K = 1 or SDCA_5L = 1 or SDCA_5M = 1 or SDCA_5N = 1 or SDCA_5O = 1 or SDCA_5P = 1 or SDCA_5Q = 1 or SDCA_5R = 1 or SDCA_5S = 1)	Neither English nor French (Other)
NS	SDCA_5A = DK, R or NS	Respondent didn't answer question (don't know, refusal, not stated).

**5) Cultural/Racial Origin****Variable name:** SDCAGRAC**Based on:** SDCA\_7A, SDCA\_7B, SDCA\_7C, SDCA\_7D, SDCA\_7E, SDCA\_7F, SDCA\_7G, SDCA\_7H, SDCA\_7I, SDCA\_7J, SDCA\_7K, SDCA\_7L, SDCA\_7M**Description:** The following variable indicates the racial background of the respondent.

<b>Value of SDCAGRAC</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	(SDCA_7A = 1) and (SDCA_7B > 1) and (SDCA_7C > 1) and (SDCA_7D > 1) and (SDCA_7E > 1) and (SDCA_7F > 1) and (SDCA_7G > 1) and (SDCA_7H > 1) and (SDCA_7I > 1) and (SDCA_7J > 1) and (SDCA_7K > 1) and (SDCA_7L > 1) and (SDCA_7M > 1)	White only
2	(SDCA_7A > 1) and [(SDCA_7B = 1) or (SDCA_7C = 1) or (SDCA_7D = 1) or (SDCA_7E = 1) or (SDCA_7F = 1) or (SDCA_7G = 1) or (SDCA_7H = 1) or (SDCA_7I = 1) or (SDCA_7J = 1) or (SDCA_7K = 1) or (SDCA_7L = 1) or (SDCA_7M = 1)]	Visible Minority
NS	SDCA_7A = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated) the question.



Labour force (7 DVs)**1) Working status last week (short form)****Variable name:** LBFADWSS**Based on:** LBFA\_01, LBFA\_02**Description:** The following variable determines the respondent's working status in the week prior to the interview.

<b>Value of LBFADWSS</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	LBFA_01 = 1	Respondent worked at a job or business
2	LBFA_02 = 1	Respondent had a job but did not work (absent)
3	LBFA_02 = 2	Respondent did not have a job
4	LBFA_01 = 3	Respondent permanently unable to work
NS	LBFA_02 = DK, R or NS	Respondent did not answer the questions required for the variable
NA	LBFA_01 = NA	Population exclusions – age < 15 and > 75

## 2) Main reason for not working last week

**Variable name:** LBFAGRNV

**Based on:** LBFA\_01, LBFA\_11, LBFA\_13, LBFA\_41

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

Value of LBFAGRNV	Condition(s)	Explanation
1	LBFA_01 = 3 or LBFA_13 = 1 or LBFA_41 = 1	Permanently unable to work, own illness or disability
2	LBFA_13 = 2 or LBFA_41 = 2 or LBFA_13 = 3 or LBFA_41 = 3 or LBFA_13 = 4 or LBFA_41 = 4	Family responsibilities
3	LBFA_13 = 7 LBFA_41 = 14	School or educational leave
4	LBFA_41 = 7 or LBFA_41 = 8 or LBFA_41 = 9 or LBFA_41 = 10 or LBFA_41 = 12 or LBFA_41 = 13 or	Labour dispute/layoff
5	LBFA_13 = 8	Retired
6	LBFA_11 = 1	Looking for work
7	LBFA_13 = 5 or LBFA_41 = 5 or LBFA_13 = 6 or LBFA_41 = 6 or LBFA_13 = 9 or LBFA_41 = 11 or LBFA_13 = 10 or LBFA_41 = 15	Other reasons
NS	(LBFA_11 = DK, R or NS) or (LBFA_13 = DK, R or NS) or (LBFA_41 = DK, R or NS)	Respondent did not answer the questions required for the variable
NA	LBFA_01 = NA	Population exclusions – age < 15 and > 75
NA	LBFA_01 = 1	Respondent was working

### 3) Multiple job status

**Variable name:** LBFADMJS

**Based on:** LBFA\_01, LBFA\_03, LBFA\_21, LBFA\_23, LBFA\_51

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

Value of LBFADMJS	Condition(s)	Explanation
1	LBFA_51 = 52	Currently has multiple jobs – had them all past year
2	LBFA_03 = 1 and LBFA_51 < 52	Currently has multiple jobs – did not have them all past year
3	LBFA_03 = 2	Currently has only one job
4	LBFA_23 = 1	Currently does not have a job – held multiple jobs over past year
5	LBFA_23 = 2 or LBFA_21 = 2	Currently does not have a job – did not hold multiple jobs over the year
NS	(LBFA_03 = DK, R or NS) or (LBFA_21 = DK, R or NS) or (LBFA_23 = DK, R or NS) or (LBFA_51 = DK, R or NS)	Respondent did not answer the questions required for the variable
NA	LBFA_01 = NA	Population exclusions – age < 15 and > 75

### 4) Self-employment status - main job or business

**Variable name:** LBFAG31

**Based on:** LBFA\_01, LBFA\_31

**Description:** The following variable determines the self-employment status of the respondent.

Value of LBFAG31	Condition(s)	Explanation
1	LBFA_31 = 1	Respondent is an employee
2	LBFA_31 = 2	Respondent is self-employed
NS	(LBFA_31 = 3) or (LBFA_31 = DK, R or NS)	Not stated or working in a family business without pay
NA	LBFA_31 = NA	Not applicable

### 5) Total usual hours worked per week

**Variable name:** LBFADHPW

**Based on:** LBFA\_01, LBFA\_42, LBFA\_53

**Description:** The following variable returns the total number of hours the respondent worked per week.

Value of LBFADHPW	Condition(s)	Explanation
LBFA_42	LBFA_42 < NA and LBFA_53 = NA	Number of hours usually worked for respondents with one job
LBFA_42 + LBFA_53	LBFA_42 < NA and LBFA_53 < NA	Number of total hours usually worked for respondents with more than one job
NS	(LBFA_42 = DK, R or NS) or (LBFA_53 = DK, R or NS)	Respondent did not answer the questions required for the variable
NA	LBFA_01 = NA	Population exclusions – age < 15 and > 75
NA	LBFA_42 = NA	Respondent did not work in past year

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

**Variable name:** LBFADPFT

**Based on:** LBFADHPW

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

Value of LBFADPFT	Condition(s)	Explanation
1	LBFAHPW >= 30	Full-time
2	LBFAHPW < 30	Part-time
NS	LBFAHPW = NS	Respondent did not answer the required questions
NA	LBFAHPW = NA	Population exclusions – age < 15 and > 75 Or non-worker

## 7) Job status over past year

**Variable name:** LBFAGJST

**Based on:** LBFA\_01, LBFA\_11, LBFA\_22, LBFA\_61, LBFA\_71

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

Value of LBFAGJST	Condition(s)	Explanation
1	LBFA_61 = 52 or [(LBFA_61 + LBFA_71) < 52 and (LBFA_71 > 0 and < 52) and (LBFA_61 < 52)]	Respondent has had a job through past year
2	LBFA_71 = 52 or LBFA_22 = 2	Respondent was without a job and either looking or not looking for work throughout the past year
3	[(LBFA_61 + LBFA_71) = 52 and (LBFA_71 > 0 and < 52) and (LBFA_61 < 52)] or [LBFA_61 < 52 and LBFA_71 = 0]	Respondent has had a job part of the year – was without a job and either looking or not looking for other part of the year
4	LBFA_71 < 52 and LBFA_21 = 2 and (LBFA_11 = 1 or LBFA_22 = 1)	Other
NS	(LBFA_22 = DK, R or NS) or (LBFA_61 = DK, R or NS) or (LBFA_71 = DK, R or NS)	Respondent did not answer the questions required for the variable
NA	LBFA_01 = NA	Population exclusions – age < 15 and > 75

## 8) Labour Force Activity of Students

**Variable Name:** LBFADSTU

**Based on:** SDCA\_8, SDCA\_9, LBFA\_01, LBFA\_02, LBFA\_21

**Description:** The following variable represents the respondent's working status if were a student.

Value of LBFADSTU	Condition(s)	Explanation
1	(LBFA_01 = 1 or LBFA_02 = 1 or LBFA_21 = 1) and SDCA_9 = 1	Worked during last 12 months and currently attending school full-time
2	(LBFA_01 = 1 or LBFA_02 = 1 or LBFA_21 = 1) and SDCA_9 = 2	Worked during last 12 months and currently attending school part-time
3	(LBFA_21 = 2) and SDCA_9 = 1	Did not work during last 12 months and currently attending school full- time
4	(LBFA_21 = 2) and SDCA_9 = 2	Did not work during last 12 months and currently attending school part- time
NS	(LBFA_21 = DK, R or NS) or (SDCA_9 = DK, R or NS)	Respondent did not answer question required for variable
NA	LBFA_01 = NA	Population exclusion – age < 15 or > 75
NA	SDCA_8 = 2	Respondent is not currently attending school

## Income (6 DVs)

### 1) Total Household Income - Main Source

**Variable name:** INCAG2

**Based on:** INCA\_2

**Description:** The following variable groups the sources of total household income into 4 categories.

Value of INCAG2	Condition(s)	Explanation
1	INCA_2 = 1, 2	Wages/salaries or self-employment
2	INCA_2 = 4, 5, 10	Employment insurance or worker's compensation or social assistance
3	INCA_2 = 6, 7, 8	Canada or Quebec pension or retirement pensions or old age security/GIS
4	INCA_2 = 3, 9, 11, 12, 13, 14	Dividends/interest or child tax benefit or child support or alimony or other or none
NS	INCA_2 = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated)

### 2) Income, 2 categories

**Variable name:** INCADIA2

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

**Description:** The following variable classifies the total household income into 2 categories based on total household income and the number of people living in the household.

Value of INCADIA2	Condition(s)	Explanation
1	(DHHADHSZ= 1 or 2) and [(INCA_3A = 3) or (INCA_3B = 1) or (INCA_3D = 1)] or (DHHADHSZ= 3 or 4) and (INCA_3A = 1 or 3) or (DHHADHSZ >= 5) and [(INCA_3A = 1 or 3) or (INCA_3F = 1)]	Low income < \$15,000 if 1 or 2 people; < \$20,000 if 3 or 4 people; < \$30,000 if 5+ people
2	(DHHADHSZ= 1 or 2) and [(INCA_3A = 2 or (INCA_3D = 2)] or (DHHADHSZ 3 or 4) and (INCA_3A = 2) or (DHHADHSZ >= 5) and [(INCA_3E = 2) or (INCA_3F = 2)]	Middle or High Income >= \$15,000 if 1 or 2 people; >= \$20,000 if 3 or 4 people; >= \$30,000 if 5+ people
NS	Else	Respondent didn't give enough information to be classified.
NS	INCA_3A = DK,R or NS	Respondent didn't answer (don't know, refusal, not stated) any income questions.

### 3) Income, 4 categories

**Variable name:** INCADIA4

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

**Description:** The following variable classifies the total household income into 4 categories based on total household income and the number of people living in the household.

Value of INCADIA4	Condition(s)	Explanation
1	(DHHADHSZ= 1 or 2) and [(INCA_3A = 3) or (INCA_3B = 1) or (INCA_3D = 1)] or (DHHADHSZ= 3 or 4) and (INCA_3A = 1 or 3) or (DHHADHSZ >= 5) and [(INCA_3A = 1 or 3) or (INCA_3F = 1)]	Lowest income < \$15,000 if 1 or 2 people; < \$20,000 if 3 or 4 people; < \$30,000 if 5+ people
2	(DHHADHSZ = 1 or 2) and [(INCA_3D = 2) or (INCA_3F = 1)] or (DHHADHSZ = 3 or 4) and (INCA_3E = 1) or (DHHADHSZ >= 5) and [(INCA_3F = 2) or (INCA_3G = 1 or 2)]	Lower middle income \$15,000 to \$29,999 if 1 or 2; \$20,000 to \$39,999 if 3 or 4; \$30,000 to \$59,999 if 5+
3	(DHHADHSZ = 1 or 2) and [(INCA_3F = 2) or (INCA_3G = 1 or 2)] or (DHHADHSZ = 3 or 4) and (INCA_3G = 1, 2 or 3) or (DHHADHSZ >= 5) and (INCA_3G = 3)	Upper middle income \$30,000 to \$59,999 if 1 or 2; \$40,000 to \$79,999 if 3 or 4; \$60,000 to \$79,999 if 5+
4	(DHHADHSZ = 1 or 2) and (INCA_3G = 3 or 4) or (DHHADHSZ >= 3) and (INCA_3G = 4)	Highest Income > \$60,000 if 1 or 2; > \$80,000 if 3+
NS	Else	Respondent didn't give enough information to be classified.
NS	INCA_3A = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated) any income questions.

#### 4) Income, 5 categories

**Variable name:** INCADIA5

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

**Description:** The following variable classifies the total household income into 5 categories based on total household income and the number of people living in the household.

Value of INCADIA5	Condition(s)	Explanation
1	(DHHADHSZ < 5) and [(INCA_3A = 3) or (INCA_3B = 1)] or (DHHADHSZ >= 5) and [(INCA_3A = 3) or (INCA_3B = 1) or (INCA_3D = 1)]	Lowest Income < \$10,000 if 1 to 4 people; < \$15,000 if 5+ people
2	(DHHADHSZ = 1 or 2) and (INCA_3D = 1) or (DHHADHSZ = 3 or 4) and (INCA_3B = 2) or (DHHADHSZ >= 5) and [(INCA_3D = 2) or (INCA_3F = 1)]	Lower Middle Income \$10,000 to \$14,999 if 1 or 2; \$10,000 to \$19,999 if 3 or 4; \$15,000 to \$29,999 if 5+
3	(DHHADHSZ = 1 or 2) and [(INCA_3D = 2) or (INCA_3F = 1)] or (DHHADHSZ = 3 or 4) and (INCA_3E = 1) or (DHHADHSZ >= 5) and [(INCA_3F = 2) or (INCA_3G = 1 or 2)]	Middle Income \$15,000 to \$29,999 if 1 or 2; \$20,000 to \$39,999 if 3 or 4; \$30,000 to \$59,999 if 5+
4	(DHHADHSZ = 1 or 2) and [(INCA_3F = 2) or (INCA_3G = 1 or 2)] or (DHHADHSZ = 3 or 4) and (INCA_3G = 1, 2 or 3) or (DHHADHSZ >= 5) and (INCA_3G = 3)	Upper Middle Income \$30,000 to \$59,999 if 1 or 2; \$40,000 to \$79,999 if 3 or 4; \$60,000 to \$79,999 if 5+
5	(DHHADHSZ = 1 or 2) and (INCA_3G = 3 or 4) or (DHHADHSZ >= 3) and (INCA_3G = 4)	Highest Income > \$60,000 if 1 or 2; > \$80,000 if 3+
NS	Else	Respondent didn't give enough information to be classified.
NS	INCA_3A = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated) any income questions.



## 5) Total household income, all sources

**Variable name:** INCAGHH

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

**Description:** The following variable groups the total household income from all sources.

Value of INCAGHH	Condition(s)	Explanation
1	INCA_3A = 3	No income
2	INCA_3C = 1 or 2, or INCA_3D = 1	Less than \$15,000
3	INCA_3D = 2 or INCA_3F = 1	\$15,000 TO \$29,999
4	INCA_3F = 2 or INCA_3G = 1	\$30,000 TO \$49,999
5	INCA_3G = 2 or INCA_3G = 3	\$50,000 TO \$79,999
6	INCA_3G = 4	\$80,000 or more
NS	Else	Respondent didn't give enough information to be classified.
NS	INCA_3A = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated) any income questions.

## 6) Personal income, all sources

**Variable name:** INCAGPER

**Based on:** INCA\_4A, INCA\_4B, INCA\_4C, INCA\_4D, INCA\_4E, INCA\_4F, INCA\_4G

**Description:** The following variable determines the respondent's personal income from all sources.

Value of INCAGPER	Condition(s)	Explanation
1	INCA_4A = 3 or NA	No income
2	INCA_4C = 1 or 2, or INCA_4D = 1	Less than \$15,000
3	INCA_4D = 2 or INCA_4F = 1	\$15,000 TO \$29,999
4	INCA_4F = 2 or INCA_4G = 1	\$30,000 TO \$49,999
5	INCA_4G = 2 or INCA_4G = 3	\$50,000 TO \$79,999
6	INCA_4G = 4	\$80,000 or more
NS	Else	Respondent didn't give enough information to be classified.
NS	INCA_4A = DK, R or NS	Respondent didn't answer (don't know, refusal, not stated) any income questions.
NA	DHHA_AGE < 15	Population exclusion – Age < 15

Food insecurity (1 DV)**1) Flag indicating food insecurity****Variable name:** FINAF1**Based on:** FINA\_1, FINA\_2, FINA\_3**Description:** The following variable represents whether the respondent had any food insecurity in the past 12 months.

<b>Value of FINAF1</b>	<b>Condition(s)</b>	<b>Explanation</b>
1	(FINA_1 = 1 or 2) or (FINA_2 = 1 or 2) or (FINA_3 = 1 or 2)	Respondent has some food insecurity in the past 12 months
2	(FINA_1 = 3) and (FINA_2 = 3) and (FINA_3 = 3)	Respondent does not have food insecurity
NS	(FINA_1 = DK, R or NS) or (FINA_2 = DK, R or NS) or (FINA_3 = DK, R or NS)	Respondent didn't answer (don't know, refusal, not stated) at least one question in the section.