Health Utilities Index Mark 3 Scores for Major Chronic Conditions: Population Norms for Canada Based on the 2013-2014 Canadian Community Health Survey

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ABSTRACT

Background: Utility scores are frequently used as preference weights when estimating quality-adjusted life-years within cost-utility analyses or health-adjusted life expectancies. Though previous Canadian estimates for specific chronic conditions have been produced, these may no longer reflect current patient populations.

Data and methods: Data from the 2013-2014 Canadian Community Health Survey were used to provide Canadian utility score norms for seventeen chronic conditions. Utility scores were estimated using the Health Utilities Index Mark 3 (HUI3) instrument and were reported as weighted average (95% confidence intervals [95% CI]) values. In addition to age and sex-stratified analyses, results were also stratified according to the number of reported chronic conditions (i.e., "none" to "≥5"). All results were weighted using sampling and bootstrapped weights provided by Statistics Canada.

Results: Utility scores were estimated for 123,654 (97.2%) respondents (weighted frequency = 29,337,370 [97.7%]). Of the chronic conditions that were examined, "Asthma" had the least detrimental effect (weighted average utility score = 0.803 [95%CI 0.795 – 0.811]) on respondents' utility scores and "Alzheimer's disease or any other dementia" had the worst (weighted average utility score = 0.374 [95%CI 0.323 – 0.426]). Respondents who reported suffering from no chronic conditions had, on average, the highest utility scores (weighted average utility score = 0.928 [95%CI 0.926 – 0.930]); estimates dropped as a function of the number of reported chronic conditions.

Interpretation: Utility score differed between various chronic conditions and as a function of the number of reported chronic conditions. Results also highlight several differences with previously published Canadian utility norms.

Keywords: Utility scores; Canadian Community Health Survey; Health Utilities Index Mark 3 (HUI3); Canada; Chronic Disease; Multiple Chronic Conditions; Health Status

What this paper adds

What is already known on this subject?

- Utility scores vary between health states and are negatively correlated to the severity of the health state
- Canadian utility score norms have been produced in the past but are based on data that are over 20 years old

What does this study add?

- This study provides recent Canadian utility score norms based on the 2013-2014
 Canadian Community Health Survey
- Though the rank ordering of the chronic conditions in estimates from this study and in previous studies are similar, minimally clinically important differences were observed
- Repeat assessment of population-level norms are required to confirm or refute
 potential variations in the utilities associated with chronic conditions over time

Health-related quality of life (HRQoL) has many definitions(1). One common definition within the health economic literature for HRQoL is the "values assigned to different health states" which are also known as utility scores (2). By convention, a utility score of 1.00 is assigned to a "Perfect health" state and a utility score of 0.00 is assigned to a "Dead" state. Health states considered worse than dead are assigned a negative value(3, 4).

Though always the same individual metric, utility scores have several applications within the HRQoL and economic literature. First, they can be used as a simple composite measure to represent the excess burden associated with a particular condition when compared to individuals who do not suffer from the condition; notable Canadian examples include studies by Jones et al.(5) comparing individuals with and without multiple sclerosis and by Bowker et al.(6) comparing individuals with and without diabetes and/or cancer. Second, they can be combined with life expectancy tables to provide a health-adjusted life expectancy (HALE) that takes into account the expected duration of life as well as the health states in which the members of a given population are expected to live (7-11). Finally, similar to their use in estimating HALE, they can be used within the context of economic evaluations to quantify the incremental effectiveness of various interventions by way of quality-adjusted life years (QALYs) gained (or lost) (12-16).

One common area of research to the three use of utility scores is to provide populationwide utility score norms. In a Canadian context, utility score norms are of value since they serve as benchmark values to which subsets of the populations can be compared. In addition, utility scores norms are critical inputs for Canadian economic evaluations and disease-specific HALE tables (17). Many groups have provided Canadian utility score norms for a single chronic condition(18-22) but few teams, notably Mittman et al(23) and Schultz and Kopec(24), have provided Canadian utility score norms for multiple chronic conditions (i.e., 20 and 21 chronic conditions, respectively). The utility score norms provided by these studies are of particular importance since they highlight the relative detrimental effect each of these multiple conditions have against each other. However, one concern with both sets of norms is the fact that the values they provide may be outdated as they are based on responses to cycles 1 and 2 of the National Population Health Survey (NPHS) which are over 20 years old(25, 26). Additionally, norms provided by Mittmann et al(23) were based on the provisional conversion algorithm based on the Health Utilities Index Mark 2 weights which is not necessarily equivalent to scores based on the Health Utilities Index Mark 3 (HUI3). Furthermore, although both studies provide sex and age-stratified results(23, 24), finer granularity regarding the stratified analyses should be favoured as they may better highlight age and sex-specific effects of diseases.

The work presented within this study provides updated Canadian utility score norms for a broad range of chronic conditions. This study is an extension of prior work aimed at providing age and sex-specific utility score norms for Canada as well as each province and territory(27).

Methods

Survey design

As with the prior study(27), data from the two-year combined 2013-2014 Canadian Community Health Survey (CCHS) was used(28, 29). A detailed description of this

survey can be found elsewhere(30). Briefly, Statistics Canada selects a representative sample of the Canadian household population living in the 10 provinces and three territories aged 12 years or older to whom the survey is to be administered. Individuals on Indian Reserves and on Crown Lands, institutionalized Canadian residents, full-time members of the Canadian Forces, and residents of certain remote regions are excluded. Statistics Canada estimates that the 2013-2014 CCHS covered approximately 98% of the Canadian population(31). For the 2013-2014 CCHS, 147,009 households agreed to participate in the survey and 128,310 individuals responded (response rate of 87.3%). Interviews were conducted in person using computer assisted personal interviewing or by telephone using computer assisted telephone interviewing(31).

Health Utilities Index Mark 3 (HUI3)

Respondents' utility scores were assessed using the HUI3 instrument of the HUI system(32-34). The HUI3 combines a generic comprehensive health status classification system and a generic health-related quality of life utility scoring system. It is one of the indirect methods for the assessment of utility scores recommended by CADTH in their 2017 guidelines for the economic evaluation of healthcare technologies(13). The HUI3 examines eight health attributes (i.e., vision, hearing, speech, ambulation, dexterity, emotion, cognition, and pain/discomfort) with each attribute having five or six levels; combination of the different attributes and levels creates 972,000 unique health states. Utility scores for the HUI3 range from -0.36 to 1.00, with "perfect health" = 1.00, "Dead" = 0.00 and "states worse than dead" having utility scores less than 0.00. The minimum clinically important difference (MCID) for the HUI3 has been estimated at 0.03 though others have used a MCID of 0.01(34, 35).

Chronic conditions

Several chronic conditions were examined within the 2013-2014 CCHS(28, 29). Chronic conditions examined for this current study include: "Alzheimer's disease or any other dementia"; "Anxiety disorder"; "Arthritis"; "Asthma"; "Back problems"; "Bowel disease" (this grouping contains the following diseases: "Crohn's disease"; "Incontinence"; Irritable bowel disease"; "Ulcerative colitis"; and "Other"); "(Current) Cancer"; "Chronic obstructive pulmonary disease" (COPD); "Diabetes"; "Effects of a stroke"; "Heart disease"; "High blood pressure"; "Migraines"; "Mood disorder"; "Scoliosis"; "Stomach or intestinal ulcers"; and "Urinary incontinence". Respondents were asked to report conditions that lasted or were expected to last for at least 6 months and that had been diagnosed by a health professional. Of note, the prevalence of certain chronic conditions was not assessed among younger respondents (e.g., respondents aged below 35 were not asked if they suffered from "Alzheimer's disease or other dementia") and respondents who indicated that they currently have cancer were not asked to report which type. Also, though respondents who had diabetes were not asked to report whether they had type 1 or 2 diabetes, responses to other questions via the derived variable "CCCDDIA" were used by Statistics Canada to determine whether a participant has type 1 or 2 diabetes.

In addition to examining each chronic condition individually, the number of chronic conditions respondents' reported suffering from were examined through the use of a categorical variable (i.e., reported suffering from "zero"; "one"; "two"; "three"; "four"; or "five or more" chronic conditions).

Statistical analyses

Descriptive statistics were used to describe the socio-demographic and clinical characteristics of respondents. Descriptive statistics were presented as absolute and relative frequencies with the exception of respondents' age at the time of answering the survey and the number of reported chronic conditions, which were presented as averages (95% confidence interval [95% CI]) as well as absolute and relative frequencies of mutually exclusive categories.

Utility scores were derived by Statistics Canada from answers to specific questions of the HUI3 instrument(30). Respondents who refused to answer any of these questions were assigned a missing value. Average (95%CI) and median (interquartile range [IQR]) utility scores were estimated for each of the 17 examined chronic conditions. Though each condition was examined separately, they were not mutually exclusive. As a result, respondents included within each analysis could report suffering from additional chronic conditions. The average (95%CI) and median (IQR) of respondents as a function of the number of reported chronic conditions (from none to five or more) were also examined. Both sets of utility score analyses were further stratified by sex and age.

All descriptive statistics were weighted to comply with Statistics Canada vetting rules. Sampling weights and bootstrapped weights, which were used to estimate bootstrapped 95%CI, were provided by Statistics Canada and used to extrapolate the results to the Canadian household population covered by 2013-2014 CCHS. All analyses were conducted with the SAS version 9.3 program (Cary, North Caroline, USA) and survey-

Results

Socio-demographic and clinical characteristics

specific procedures were used when appropriate.

A total of 128,310 individuals answered the 2013-2014 CCHS and were weighted to represent a weighted sample of 30,014,589 household Canadians(30). Socio-demographic characteristics of this population have been previously described (27). In this current study, the chronic condition status of this population was further examined (Table 1). A slightly greater proportion of the weighted sample was female (weighted frequency count = 15,199,574 [50.6%]) and the average age at the time of responding to the survey was 44.8 years old (95%CI 44.7 – 44.9). Results indicate that "Back problems" (weighted frequency count = 5,476,049 [18.2%]) and "High blood pressure" (weighted frequency count = 5,297,278 [17.6%]) were the two most frequently reported chronic conditions within the weighted sample whereas "Alzheimer's disease or any other dementia" was the least frequently reported chronic condition (weighted frequency count = 138,713 [0.5%]). The average number of reported chronic conditions was 1.15 (95%CI 1.14 – 1.17). Over half of the weighted sample reported suffering from at least one chronic condition (weighted frequency count = 16,497,632 [55.0%]). In addition, the number of chronic conditions reported by respondents was also examined within a subset of respondents who reported suffering from each of the examined conditions (Table 2). Results highlight that most respondents who reported suffering from at least one of the examined chronic conditions reported suffering from multiple chronic conditions. Results highlighted that multicomorbidity was most prevalent within respondents reporting suffering from those reporting suffering from COPD (93.3% [92.0% - 94.6%]) of respondents reporting suffering from COPD reported suffering from at least a second chronic conditions) and from those reporting suffering from the effects of a stroke (92.9%) [91.0% - 94.7%] of respondents reporting suffering from the effects of a stroke reported

suffering from at least a second chronic condition). At the opposite, multicomodbidity was the least frequently reported within respondents reporting suffering from asthma (66.0% [64.4% - 67.5%] of respondents reporting suffering from asthma reported suffering from at least a second chronic condition).

Utility score measures

Utility scores could not be estimated for all respondents of the 2013-2014 CCHS; utility scores were estimated for 123,654 respondents (96.4%), which represents a weighted sample of 29,337,370 Canadians (97.7%). Predictors of non-response within this sample have been previously examined(27).

Table 3 provides weighted average (95%CI) utility scores for each of the 17 examined chronic conditions (age and sex-stratified averages [95%CI] and median [IQR] utility score norms for each chronic condition are available within the Supplementary tables 1-17). Results highlight the fact that utility score norms vary among the various chronic conditions; results ranged from a high of 0.803 (0.795 – 0.811) for respondents who reported suffering from "Asthma" to a low of 0.374 (0.323 – 0.426) for respondents who reported suffering from "Alzheimer's disease or other dementia".

Figure 1 provides the weighted average utility scores in function of the age of respondents stratified by the number of reported chronic conditions. Results highlight that the average weighted utility score drops in function of the number of reported chronic conditions, from a high of 0.928 (0.926 - 0.930) when respondents reported suffering from no chronic condition to a low of 0.490 (0.475 - 0.505) when respondents reported suffering from 5 or more chronic conditions. This general tendency was reflected within most of the examined age categories and was more pronounced within respondents aged

70 years and over. Supplementary tables 18 – 23 provide the age and sex-stratified analyses in function of the number of reported chronic conditions as well as the median [IQR] utility score norms of each stratum.

Discussion

This study expands on previous work aimed at updating utility score norms in Canada(27). Specifically, age and sex-stratified utility score norms for the Canadian household population are provided in function of chronic conditions. Results indicate that the 2013-2014 Canadian household population reported suffering from an average of 1.15 (95%CI 1.14 – 1.17) chronic conditions (Table 1). The weighted average utility score for respondents who reported suffering from a single chronic condition (i.e., 0.887 [0.884 – 0.930]) was closest, and within the MCID for the HUI3, to the weighted average utility score of the 2013-2014 Canadian household population that was previously reported (i.e., 0.863 [95%CI 0.861 – 0.865])(27).

In addition, these results echo relationships between utility scores and specific chronic conditions that have been observed by others. For example, similar to results obtained by Mittmann *et al*(23) and Schultz and Kopec(23, 24), respondents of the 2013-2014 CCHS considered that "Asthma" was the least detrimental and "Alzheimer's disease or any other dementia" was the most detrimental of the 17 examined chronic conditions. Similar to findings observed by others(23, 36) results obtained within this study highlight that the average utility scores decreased with each additional reported chronic condition (Figure 1). Although the results had greater variability within respondents who reported suffering from multiple chronic conditions (i.e., 2 or more), results within Figure 1 tended to indicate that the average utility scores within each stratum were independent of

respondents' age when below 70 years old but decreased sharply afterwards. Additional studies are required to validate these trends.

To the best of our knowledge, this is the first Canadian study to examine this relationship in a non-restricted population since Mittman $et\ al(23)$. Interestingly, compared to those results, weighted average utility scores for respondents who reported suffering from none or only one of the examined chronic conditions do not differ (i.e., are within the MCID for the HUI3). However, estimates were generally lower than previously reported values with differences increasing as respondents reported additional chronic conditions. These differences may be partly explained by the inclusion of alternative sets of chronic conditions, the use of unweighted averages and differences in scoring algorithms (provisional algorithm based on the HUI2 weights versus the final HUI3 version) by Mittman $et\ al(23)$. Additional work is required to confirm any real difference between both sets of results.

This study has limitations that must be recognized. First, some subsets of the Canadian population were not asked to participate in the 2013-2014 CCHS (e.g., institutionalized Canadian residents, or full-time members of the Canadian Forces)(31). In addition, utility scores could not be estimated for all respondents of the survey (4,656 respondents [3.6%]; weighted frequency = 677,219 [2.3%]). Although the results may not extend beyond the study population, the 2013-2014 CCHS covers most household Canadians aged over 12 years and utility scores could be estimated for the vast majority of respondents. Second, 13% of participants did not answer the 2013-2014 CCHS. There is no information on who or why potential participants refused to answer the survey. For example, it is unclear whether respondents of CCHS were healthier than non-respondents

(e.g., higher prevalence of severe comorbidities such as Alzheimer's disease in nonrespondents than in respondents). As a result, the risk of respondent bias cannot be excluded. Despite this risk, the response rate to the 2013-2014 CCHS was quite high at 87.3%. Third, results are based on self-reported responses which may be prone to bias if respondents are confused by the wording of certain questions or if the questions do not grant enough specificity to differentiate fully a disease status. For example, cancer status in this study was based on respondents' answer to the question "(CCC_Q131) Do you have cancer?" of the 2013-2014 CCHS(28, 29). This wording does not provide any detail regarding the type or severity of cancer, which could influence respondents' utility scores. Furthermore, the 2013-2014 CCHS only asks respondents to report the prevalence of a disease. Information is not available on the severity of disease or time since diagnosis. Therefore, it was not possible to further stratify respondents' utility scores in function of these characteristics. Fourth, the utility score norms that are provided were estimated with the use of the HUI3 instrument. Though the HUI3 instrument is one of the most frequently utilized utility score instruments(37), other instruments (e.g., EuroQOL-5 Dimensions(38), Short Form-6 Dimensions(39)) could have been considered. However, unlike other instruments, the HUI3 is the only one that has been asked to an unrestricted representative sample of the Canadian household population. Finally, comparisons between these results and those obtained within other jurisdictions were not conducted despite the fact that utility norms for specific chronic conditions have been produced elsewhere(40-45). The decision to not compare these results was motivated by the fact that differences could be explained by the use of alternative instruments and that

algorithms converting responses to the instruments to utility scores vary between jurisdictions and can produce different results(46).

In conclusion, the results of this study further update Canadian utility score norms. This information will be of value to Canadian clinicians, researchers and decision-makers. Despite the value of the update, the longevity of these updated results remains unclear. As previously mentioned, other groups have provided Canadian utility score norms for specific chronic conditions. Justification for providing this update was based on the fact that many of those norms were derived from data collected over 20 years ago. Although differences between the current and previous studies were found, some greater than the MCID for the HUI3, it is unclear how frequently such differences would appear. Future research examining trends, or the lack of, in utility scores over time is needed. Until then, groups who conduct population-wide surveys that include utility score instruments (e.g. Statistics Canada) should be encouraged to periodically and systematically disclose these norms.

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Table 1. Socio-demographic characteristics and reported chronic conditions, household population aged 12 and older, Canada, 2013-2014

Characteristic	Weighted	Relative Weighted	95% Confidence
	Frequency	Frequency	Interval
	30,014,589	100%	
Sex			
Male	14,815,015	49.4%	(49.4% - 49.4%)
Female	15,199,574	50.6%	(50.6% - 50.6%)
Age, mean (95%CI)		44.8	(44.7 - 44.9)
Age Groups			
12 to 19	3,180,697	10.6%	(10.6% - 10.6%)
20 to 24	2,419,203	8.1%	(7.8% - 8.3%)
25 to 29	2,373,260	7.9%	(7.7% - 8.1%)
30 to 34	2,321,576	7.7%	(7.4% - 8.0%)
35 to 39	2,296,321	7.7%	(7.4% - 7.9%)
40 to 44	2,415,306	8.0%	(7.8% - 8.3%)
45 to 49	2,334,694	7.8%	(7.4% - 8.2%)
50 to 54	2,708,861	9.0%	(8.7% - 9.4%)
55 to 59	2,576,617	8.6%	(8.3% - 8.9%)
60 to 64	2,184,281	7.3%	(6.9% - 7.6%)
65 to 69	1,822,033	6.1%	(5.9% - 6.2%)
70 to 74	1,301,405	4.3%	(4.2% - 4.5%)
75 to 79	946,319	3.2%	(3.0% - 3.3%)

80 to 84	656,358	2.2%	(2.1% - 2.3%)
85 and over	477,658	1.6%	(1.5% - 1.7%)
Chronic Condition*			
Alzheimer's or any other			
dementia	138,713	0.5%	(0.4% - 0.5%)
Yes	10,294,736	34.3%	(34.0% - 34.6%)
Not applicable			
Anxiety disorder	2,059,048	6.9%	(6.6% - 7.1%)
Arthritis			
Yes	4,677,551	15.6%	(15.3% - 15.9%)
Not applicable	713,821	2.4%	(2.3% - 2.5%)
Asthma	2,405,419	8.0%	(7.8% - 8.3%)
Back problems	5,476,049	18.2%	(17.9% - 18.6%)
Bowel disease	1,368,929	4.6%	(4.4% - 4.8%)
Crohn's disease	122,178	0.4%	(0.4% - 0.5%)
Incontinence	50,016	0.2%	(0.1% - 0.2%)
Irritable bowel disease	798,089	2.7%	(2.5% - 2.8%)
Ulcerative colitis	150,481	0.5%	(0.4% - 0.6%)
Other	228,577	0.8%	(0.7% - 0.9%)
Not stated	61,349	0.2%	(0.1% - 0.3%)
Don't know or Refusal	19,589	0.1%	(0.0% - 0.1%)
Cancer†	552,843	1.8%	(1.7% - 2.0%)
COPD			

Yes	817,894	2.7%	(2.6% - 2.9%)
Not applicable	10,294,736	34.3%	(34.0% - 34.6%)
Diabetes	1,988,216	6.6%	(6.4% - 6.9%)
Type 1	86,396	0.3%	(0.2% - 0.3%)
Type 2	1,833,219	6.1%	(5.9% - 6.3%)
Gestational	21,593	0.1%	(0.0% - 0.1%)
Not stated	47,009	0.2%	(0.1% - 0.2%)
Effects of a stroke	333,606	1.1%	(1.0% - 1.2%)
Heart disease	1,455,958	4.9%	(4.7% - 5.0%)
High blood pressure	5,297,278	17.6%	(17.3% - 18.0%)
Migraines	2,987,249	10.0%	(9.7% - 10.2%)
Mood disorder	2,304,130	7.7%	(7.4% - 7.9%)
Scoliosis	982,555	3.3%	(3.1% - 3.4%)
Stomach or intestinal	758,148	2.5%	(2.3% - 2.7%)
ulcers			
Urinary incontinence			
Yes	1,039,464	3.5%	(3.3% - 3.6%)
Not applicable	5,599,900	18.7%	(18.4% - 18.9%)
Number of Chronic		1.15	(1.14 – 1.17)
Condition, mean (95%CI)			
Number of Chronic			
Conditions			
0	13,516,957	45.0%	(44.5% - 45.5%)

1	7,516,640	25.1%	(24.6% - 25.5%)
2	4,310,331	14.4%	(14.1% - 14.7%)
3	2,311,443	7.7%	(7.5% - 7.9%)
4	1,210,740	4.0%	(3.9% - 4.2%)
5 or more	1,148,478	3.8%	(3.7% - 4.0%)

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^{*}Some chronic conditions (e.g., arthritis) were not asked to all respondents, these conditions are identified within the table.

[†]Respondents reported currently suffering from cancer

^{95%}CI, 95% confidence interval; COPD, Chronic obstructive pulmonary disease

Table 2. Number of chronic diseases reported by respondents in function of the examined chronic conditions, household population aged 12 and older, Canada, 2013-2014

Chro	Aver	Only one chronic	Two chronic	Three chronic	Four chronic	Five or more chronic
nic	age	condition‡	conditions	conditions	condition	conditions
condi	num					
tion*	ber					
	of					
	chro					
	nic					
	chro					
	nic					
	condi					
	tions					
	†					

		Wei	Rela	95%	Wei	Rela	95%	Weig	Relati	95%	Weighte	Rela	95	Weig	Rela	95%
		ghte	tive	Conf	ghte	tive	Conf	hted	ve	Confi	d	tive	%	hted	tive	Conf
		d	Wei	idenc	d	Wei	idenc	Freq	Weig	dence	Frequen	Wei	Co	Frequ	Wei	idenc
		Freq	ghte	e	Freq	ghte	e	uenc	hted	Inter	cy	ghte	nfid	ency	ghte	e
		uenc	d	Inter	uenc	d	Inter	у	Frequ	val		d	enc		d	Inter
		у	Freq	val	у	Freq	val		ency			Freq	e		Freq	val
			uenc			uenc						uenc	Inte		uenc	
			у			у						у	rval		у	
Asth	2.75	818,	34.0	(32.5	542,	22.6	(21.2	362,6	15.1%	(14.0	269,787	11.2	(10.	411,	17.1	(15.9
ma	(2.69	394	%	% -	612	%	% -	59		% -		%	2%	967	%	% -
	_			35.6			23.9			16.1			-			18.3
	2.81)			%)			%)			%)			12.			%)
													2%			
)			

High	2.74	1,36	25.7	(24.7	1,49	28.2	(27.3	1,047	19.8%	(19.0	652,684	12.3	(11.	742,5	14.0	(13.3
blood	(2.71	0,60	%	% -	3,85	%	% -	,631		% -		%	6%	07	%	% -
press	-	4		26.6	2		29.2			20.5			-			14.7
ure	2.78)			%)			%)			%)			13.			%)
													0%			
)			
Migra	2.62	982,	32.9	(31.3	778,	26.1	(24.6	505,2	16.9%	(15.7	304,822	10.2	(9.3	416,0	13.9	(12.9
ines	(2.57	933	%	% -	233	%	% -	23		% -		%	% -	38	%	% -
	-			34.5			27.5			18.1			11.			14.9
	2.68)			%)			%)			%)			2%			%)
)			
Scoli	2.94	230,	23.5	(21.0	260,	26.5	(24.1	189,6	19.3%	(17.1	134,534	13.7	(11.	167,2	17.0	(15.2
osis	(2.84	450	%	% -	608	%	% -	82		% -		%	8%	80	%	% -
	-			25.9			29.0			21.5			-			18.8
	3.04)			%)			%)			%)			15.			%)

													6%			
)			
Diabe	3.14	338,	17.0	(15.4	534,	26.9	(25.3	433,6	21.8%	(20.5	297,408	15.0	(13.	384,4	19.3	(18.2
tes	(3.08	206	%	% -	516	%	% -	42		% -		%	8%	45	%	% -
	-			18.6			28.4			23.2			-			20.5
	3.20)			%)			%)			%)			16.			%)
													2%			
)			
Canc	3.10	105,	19.0	(16.2	142,	25.7	(22.7	118,8	21.5%	(18.6	77,491	14.0	(12.	109,1	19.8	(17.5
er§	(3.00	133	%	% -	183	%	% -	73		% -		%	2%	63	%	% -
	-			21.8			28.8			24.4			-			22.0
	3.21)			%)			%)			%)			15.			%)
													8%			
)			

Back	2.82	1,38	25.2	24.2	1,40	25.6	(24.6	1,118	20.4%	(19.6	735,722	13.4	(12.	836,1	15.3	(14.5
probl	(2.78	2,36	%	% -	3,68	%	% -	,142		% -		%	7%	41	%	% -
ems	-	0		26.3	3		26.6			21.3			-			16.0
	2.86)			%			%)			%)			14.			%)
													1%			
)			
Bowe	3.29	268,	19.6	(17.9	308,	22.5	(20.6	272,0	19.9%	(18.1	196,274	14.3	(13.	323,6	23.7	(21.9
1	(3.20	863	%	% -	001	%	% -	91		% -		%	0%	99	%	% -
diseas	-			21.3			24.4			21.7			-			25.4
e	3.37)			%)			%)			%)			15.			%)
													7%			
)			
Heart	3.54	173,	11.9	(10.7	320,	22.0	(20.5	313,9	21.6%	(20.1	280,408	19.3	(17.	368,4	25.3	(23.7
diseas	(3.47	159	%	% -	046	%	% -	13		% -		%	7%	31	%	% -
e													-			

	-			13.1			23.5			23.0			20.			26.9
	3.61)			%)			%)			%)			8%			%)
)			
Arthri	3.08	834,	17.8	(17.0	1,17	25.2	(24.3	1,088	23.3%	(22.4	727,289	15.6	(14.	847,8	18.1	(17.3
tis	(3.04	234	%	% -	9,41	%	% -	,773		% -		%	8%	41	%	% -
	-			18.7	4		26.1			24.2			-			18.9
	3.11)			%)			%)			%)			16.			%)
													3%			
)			
Stom	3.58	133,	17.6	(14.0	148,	19.6	(16.9	149,9	19.8%	(16.7	106,032	14.0	(12.	220,7	29.1	(26.0
ach or	(3.42	178	%	% -	288	%	% -	01		% -		%	0%	49	%	% -
intesti	-			21.2			22.2			22.8			-			32.2
nal	3.74)			%)			%)			%)			16.			%)
ulcers													0%			
)			

Anxie	3.26	347,	16.9	(15.5	546,	26.5	(24.8	399,8	19.4%	(18.0	289,776	14.1	(12.	475,6	23.1	(21.5
ty	(3.19	309	%	% -	450	%	% -	43		% -		%	8%	70	%	% -
disor	-			18.3			28.3			20.8			-			24.7
der	3.33)			%)			%)			%)			15.			%)
													4%			
)			
COP	4.22	55,0	6.7	(5.4	122,	15.0	(13.1	160,3	19.6%	(17.7	153,049	18.7	(16.	327,1	40.0	(37.6
D	(4.11	07	%	% -	409	%	% -	00		% -		%	7%	29	%	% -
	-			8.0%			16.8			21.5			-			42.4
	4.33))			%)			%)			20.			%)
													7%			
)			
Mood	3.32	360,	15.6	(14.3	577,	25.1	(23.6	464,3	20.2%	(18.8	359,562	15.6	(14.	542,2	23.5	(22.2
disor	(3.26	473	%	% -	511	%	% -	26		% -		%	4%	59	%	% -
der													-			

	-			17.0			26.5			21.5			16.			24.9
	3.38)			%)			%)			%)			9%			%)
)			
Urina	3.93	91,4	8.8	(7.4	184,	17.7	(16.1	220,9	21.3%	(19.7	174,768	16.8	(15.	368,0	35.4	(33.3
ry	(3.84	99	%	% -	194	2	% -	20		% -		%	3%	83	%	% -
incon	-			10.2			19.4			22.9			-			37.6
tinenc	4.02)			%)			%)			%)			18.			%)
e													3%			
)			
Effect	4.29	23,8	7.2	(5.3	57,5	17.2	(14.1	57,99	17.4%	(14.5	58,112	17.4	(14.	136,1	40.8	(36.8
s of a	(4.10	53	%	% -	09	%	% -	7		% -		%	4%	35	%	% -
stroke	-			9.0%			20.4			20.3			-			44.9
	4.48))			%)			%)			20.			%)
													5%			
)			

Alzhe	4.13	10,9	7.9	(5.1	21,1	15.3	(11.5	30,41	21.9%	(16.0	25,244	18.2	(13.	50,91	36.7	(30.7
imer'	(3.88	86	%	% -	52	%	% -	3		% -		%	1%	9	%	% -
s	-			10.7			19.0			27.8			-			42.7
diseas	4.38)			%)			%)			%)			23.			%)
e or													3%			
any)			
other																
deme																
ntia																

2013-2014 Canadian Community Health Survey*Chronic conditions are not mutually exclusive

[†]The minimum number of chronic conditions reported by the respondent is 1 (i.e., the examined chronic condition)

[‡]Identifies respondents reporting only suffering from the examined chronic condition

[§] Respondents reported currently suffering from cancer

Table 3. Utility scores norms for each of the chronic conditions examined within the 2013-2014 Canadian Community Health Survey, household population aged 12 and older, Canada, 2013-2014

Chronic	Total		
condition	population		
	Mean	95%	Weighted
		Confidence	Frequency
		Interval	
Asthma	0.803	(0.795 –	2,332,134
		0.811)	
High blood	0.793	(0.787 –	5,059,144
pressure		0.799)	
Migraines	0.780	(0.771 –	2,898,005
		0.788)	

Scoliosis	0.777	(0.764 –	954,053
		0.791)	
Diabetes	0.766	(0.757 –	1,899,760
		0.776)	
Cancer*	0.759	(0.741 –	523,278
		0.777)	
Back	0.736	(0.730 –	5,268,845
problems		0.742)	
Bowel	0.735	(0.723 –	1,311,046
disease		0.748)	
Heart	0.719	(0.705 –	1,360,251
disease		0.732)	
Arthritis	0.715	(0.708 –	4,437,987
		0.722)	

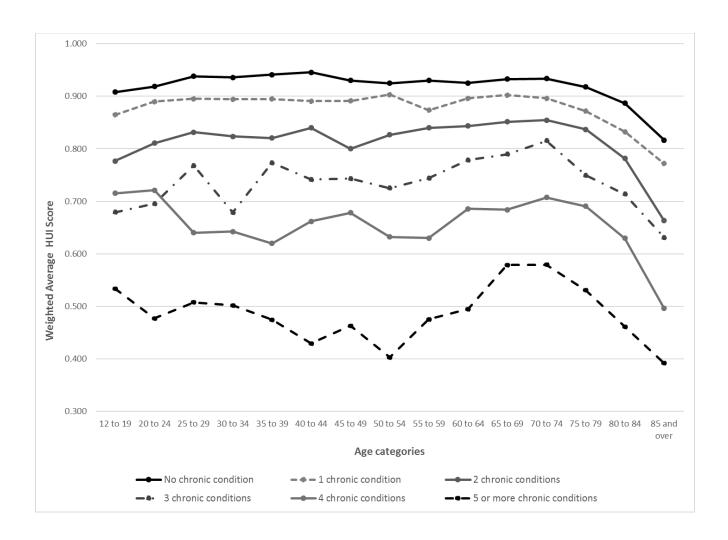
Stomach or	0.693	(0.668 –	727,240
intestinal		0.719)	
ulcers			
Anxiety	0.677	(0.665 –	1,971,578
disorder		0.689)	
COPD	0.649	(0.633 –	760,326
		0.665)	
Mood	0.643	(0.632 –	2,194,118
disorder		0.654)	
Urinary	0.621	(0.603 –	952,930
incontinence		0.639)	
Effects of a	0.581	(0.553 –	306,139
stroke		0.608)	
Alzheimer's	0.374	(0.323 –	118,366
disease or		0.426)	

any other		
dementia		

COPD, Chronic obstructive pulmonary disease

*Respondents reported currently suffering from a cancer

Figure 1. Weighted average utility scores of respondents stratified by the number of chronic conditions they reported, household population aged 12 and older, Canada, 2013-2014



Supplementary table 1. Age and sex-stratified utility norms for Alzheimer's disease or any other dementia, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	55,274	Female			Weighted	63,092
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19*					12 to 19*				
20 to 24*					20 to 24*				
25 to 29*					25 to 29*				
30 to 34*					30 to 34*				
35 to 39†					35 to 39†				

40 to 44†					40 to 44†				
45 to 49†					45 to 49†				
50 to 54					50 to 54				(0.278 -
	0.565	(0.148 - 0.982)	0.309	(0.116 - 0.954)		0.557	(0.305 - 0.808)	0.613	0.643)
55 to 59		(-0.056 -		(-0.063 -	55 to 59				(0.062 -
	0.149	0.354)	0.00	0.224)		0.290	(0.026 - 0.554)	0.090	0.510)
60 to 64					60 to 64				(0.091 -
	0.587	(0.240 - 0.934)	0.529	(0.36 - 0.667)		0.238	(0.033 - 0.442)	0.163	0.292)
65 to 69					65 to 69				(0.324 -
	0.798	(0.710 - 0.886)	0.843	(0.673 - 0.890)		0.545	(0.385 - 0.705)	0.434	0.749)
70 to 74					70 to 74				(0.262 -
	0.406	(0.282 - 0.529)	0.385	(0.144 - 0.689)		0.474	(0.322 - 0.626)	0.372	0.851)
75 to 79					75 to 79				(0.012 -
	0.528	(0.317 - 0.740)	0.576	(0.242 - 0.934)		0.282	(0.170 - 0.394)	0.332	0.433)

80 to 84					80 to 84				(-0.059 -
	0.349	(0.218 - 0.481)	0.291	(0.044 - 0.709)		0.335	(0.131 - 0.539)	0.186	0.842)
85 and over					85 and				(0.023 -
	0.299	(0.189 - 0.409)	0.232	(0.033 - 0.542)	over	0.183	(0.110 - 0.256)	0.129	0.401)
All ages	0.458	(0.383 - 0.532)	0.443	(0.145 - 0.744)	All ages	0.301	(0.238 - 0.364)	0.231	(0.028 -
									0.490)

^{*}Not asked to respondents below 35 years of age

[†]Cells were hidden to comply with Statistics Canada's vetting rules

Age and sex-stratified utility norms for Alzheimer's disease or other dementia, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popula	ation		Weighted	118,366
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19*				
20 to 24*				
25 to 29*				
30 to 34*				
35 to 39†				
40 to 44†				
45 to 49	0.579	(0.198 - 0.960)	0.757	(0.159 - 0.818)

50 to 54	0.559	(0.361 - 0.757)	0.609	(0.307 - 0.648)
55 to 59	0.217	(0.050 - 0.385)	0.082	(-0.003 - 0.444)
60 to 64	0.424	(0.165 - 0.684)	0.366	(0.199 - 0.660)
65 to 69	0.688	(0.587 - 0.790)	0.736	(0.436 - 0.897)
70 to 74	0.433	(0.336 - 0.530)	0.394	(0.147 - 0.741)
75 to 79	0.401	(0.267 - 0.535)	0.422	(0.126 - 0.684)
80 to 84	0.342	(0.218 - 0.466)	0.255	(-0.028 - 0.731)
85 and over	0.220	(0.157 - 0.283)	0.159	(0.026 - 0.415)
All ages	0.374	(0.323 - 0.426)	0.338	(0.057 - 0.742)

2013-2014 Canadian Community Health Survey

†Cells were hidden to comply with Statistics Canada's vetting rules

^{*}Not asked to respondents below 35 years of age

Supplementary table 2. Age and sex-stratified utility norms for anxiety disorder, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	729,893	Female			Weighted	1,241,685
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.757	(0.722 - 0.791)	0.827	(0.688 - 0.921)	12 to 19	0.738	(0.708 - 0.768)	0.767	(0.631 - 0.916)
20 to 24	0.701	(0.642 - 0.759)	0.794	(0.503 - 0.904)	20 to 24	0.763	(0.730 - 0.795)	0.802	(0.688 - 0.917)
25 to 29	0.691	(0.631 - 0.752)	0.755	(0.553 - 0.907)	25 to 29	0.767	(0.736 - 0.799)	0.858	(0.657 - 0.929)
30 to 34	0.713	(0.652 - 0.773)	0.794	(0.504 - 0.903)	30 to 34	0.735	(0.690 - 0.780)	0.857	(0.600 - 0.929)
35 to 39	0.696	(0.630 - 0.761)	0.811	(0.436 - 0.931)	35 to 39	0.715	(0.670 - 0.759)	0.798	(0.596 - 0.917)

40 to 44 0.733 (0.648 - 0.817) 0.866 (0.534 - 0.956) 40 to 44 0.649 (0.587 - 0.711) 0.744 (0.361 - 0.923) 45 to 49 0.642 (0.568 - 0.716) 0.731 (0.398 - 0.922) 45 to 49 0.635 (0.580 - 0.691) 0.722 (0.380 - 0.883) 50 to 54 0.484 (0.351 - 0.618) 0.503 (0.102 - 0.890) 50 to 54 0.596 (0.542 - 0.650) 0.686 (0.328 - 0.896) 55 to 59 0.616 (0.550 - 0.681) 0.682 (0.319 - 0.920) 55 to 59 0.608 (0.560 - 0.656) 0.686 (0.347 - 0.896) 60 to 64 0.648 (0.583 - 0.714) 0.772 (0.369 - 0.900) 60 to 64 0.669 (0.631 - 0.708) 0.773 (0.472 - 0.903) 65 to 69 0.653 (0.596 - 0.711) 0.688 (0.574 - 0.887) 65 to 69 0.678 (0.635 - 0.72) 0.782 (0.517 - 0.902) 70 to 74 0.633 (0.542 - 0.725) 0.725 (0.287 - 0.888) 70 to 74 0.729 (0.679 - 0.779) 0.826 (0.583 - 0.										
50 to 54 0.484 (0.351 - 0.618) 0.503 (0.102 - 0.890) 50 to 54 0.596 (0.542 - 0.650) 0.686 (0.328 - 0.896) 55 to 59 0.616 (0.550 - 0.681) 0.682 (0.319 - 0.920) 55 to 59 0.608 (0.560 - 0.656) 0.686 (0.347 - 0.896) 60 to 64 0.648 (0.583 - 0.714) 0.772 (0.369 - 0.900) 60 to 64 0.669 (0.631 - 0.708) 0.773 (0.472 - 0.903) 65 to 69 0.653 (0.596 - 0.711) 0.688 (0.574 - 0.897) 65 to 69 0.678 (0.635 - 0.72) 0.782 (0.517 - 0.902) 70 to 74 0.633 (0.542 - 0.725) 0.725 (0.287 - 0.888) 70 to 74 0.729 (0.679 - 0.779) 0.826 (0.583 - 0.928) 75 to 79 0.706 (0.567 - 0.845) 0.846 (0.578 - 0.949) 75 to 79 0.602 (0.522 - 0.683) 0.705 (0.292 - 0.887) 80 to 84 0.519 (0.342 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.672)	40 to 44	0.733	(0.648 - 0.817)	0.866	(0.534 - 0.956)	40 to 44	0.649	(0.587 - 0.711)	0.744	(0.361 - 0.923)
55 to 59 0.616 (0.550 - 0.681) 0.682 (0.319 - 0.920) 55 to 59 0.608 (0.560 - 0.656) 0.686 (0.347 - 0.896) 60 to 64 0.648 (0.583 - 0.714) 0.772 (0.369 - 0.900) 60 to 64 0.669 (0.631 - 0.708) 0.773 (0.472 - 0.903) 65 to 69 0.653 (0.596 - 0.711) 0.688 (0.574 - 0.897) 65 to 69 0.678 (0.635 - 0.72) 0.782 (0.517 - 0.902) 70 to 74 0.633 (0.542 - 0.725) 0.725 (0.287 - 0.888) 70 to 74 0.729 (0.679 - 0.779) 0.826 (0.583 - 0.928) 75 to 79 0.706 (0.567 - 0.845) 0.846 (0.578 - 0.949) 75 to 79 0.602 (0.522 - 0.683) 0.705 (0.292 - 0.887) 80 to 84 0.519 (0.342 - 0.697) 0.676 (0.252 - 0.777) 80 to 84 0.471 (0.363 - 0.578) 0.514 (0.114 - 0.842) 85 and over 0.451 (0.246 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.6	45 to 49	0.642	(0.568 - 0.716)	0.731	(0.398 - 0.922)	45 to 49	0.635	(0.580 - 0.691)	0.722	(0.380 - 0.883)
60 to 64	50 to 54	0.484	(0.351 - 0.618)	0.503	(0.102 - 0.890)	50 to 54	0.596	(0.542 - 0.650)	0.686	(0.328 - 0.896)
65 to 69 0.653 (0.596 - 0.711) 0.688 (0.574 - 0.897) 65 to 69 0.678 (0.635 - 0.72) 0.782 (0.517 - 0.902) 70 to 74 0.633 (0.542 - 0.725) 0.725 (0.287 - 0.888) 70 to 74 0.729 (0.679 - 0.779) 0.826 (0.583 - 0.928) 75 to 79 0.706 (0.567 - 0.845) 0.846 (0.578 - 0.949) 75 to 79 0.602 (0.522 - 0.683) 0.705 (0.292 - 0.887) 80 to 84 0.519 (0.342 - 0.697) 0.676 (0.252 - 0.777) 80 to 84 0.471 (0.363 - 0.578) 0.514 (0.114 - 0.842) 85 and over 0.451 (0.246 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.672)	55 to 59	0.616	(0.550 - 0.681)	0.682	(0.319 - 0.920)	55 to 59	0.608	(0.560 - 0.656)	0.686	(0.347 - 0.896)
70 to 74 0.633 (0.542 - 0.725) 0.725 (0.287 - 0.888) 70 to 74 0.729 (0.679 - 0.779) 0.826 (0.583 - 0.928) 75 to 79 0.706 (0.567 - 0.845) 0.846 (0.578 - 0.949) 75 to 79 0.602 (0.522 - 0.683) 0.705 (0.292 - 0.887) 80 to 84 0.519 (0.342 - 0.697) 0.676 (0.252 - 0.777) 80 to 84 0.471 (0.363 - 0.578) 0.514 (0.114 - 0.842) 85 and over 0.451 (0.246 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.672)	60 to 64	0.648	(0.583 - 0.714)	0.772	(0.369 - 0.900)	60 to 64	0.669	(0.631 - 0.708)	0.773	(0.472 - 0.903)
75 to 79	65 to 69	0.653	(0.596 - 0.711)	0.688	(0.574 - 0.897)	65 to 69	0.678	(0.635 - 0.72)	0.782	(0.517 - 0.902)
80 to 84	70 to 74	0.633	(0.542 - 0.725)	0.725	(0.287 - 0.888)	70 to 74	0.729	(0.679 - 0.779)	0.826	(0.583 - 0.928)
85 and over 0.451 (0.246 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.672)	75 to 79	0.706	(0.567 - 0.845)	0.846	(0.578 - 0.949)	75 to 79	0.602	(0.522 - 0.683)	0.705	(0.292 - 0.887)
0.451 (0.246 - 0.656) 0.427 (0.114 - 0.778) over 0.408 (0.324 - 0.492) 0.388 (0.180 - 0.672)	80 to 84	0.519	(0.342 - 0.697)	0.676	(0.252 - 0.777)	80 to 84	0.471	(0.363 - 0.578)	0.514	(0.114 - 0.842)
	85 and over					85 and				
All ages 0.665 (0.640 - 0.689) 0.777 (0.444 - 0.921) All ages 0.684 (0.671 - 0.696) 0.777 (0.495 - 0.919)		0.451	(0.246 - 0.656)	0.427	(0.114 - 0.778)	over	0.408	(0.324 - 0.492)	0.388	(0.180 - 0.672)
All ages 0.665 (0.640 - 0.689) 0.777 (0.444 - 0.921) All ages 0.684 (0.671 - 0.696) 0.777 (0.495 - 0.919)										
	All ages	0.665	(0.640 - 0.689)	0.777	(0.444 - 0.921)	All ages	0.684	(0.671 - 0.696)	0.777	(0.495 - 0.919)

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for anxiety disorder, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	1,971,578
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.746	(0.723 - 0.768)	0.795	(0.685 - 0.923)
20 to 24	0.739	(0.71 - 0.769)	0.801	(0.627 - 0.913)
25 to 29	0.741	(0.712 - 0.771)	0.839	(0.638 - 0.926)
30 to 34	0.728	(0.692 - 0.763)	0.841	(0.581 - 0.925)
35 to 39	0.708	(0.671 - 0.744)	0.799	(0.500 - 0.925)
40 to 44	0.681	(0.628 - 0.733)	0.798	(0.441 - 0.929)
45 to 49	0.638	(0.592 - 0.684)	0.730	(0.383 - 0.901)
50 to 54	0.553	(0.493 - 0.613)	0.648	(0.256 - 0.895)

60 to 64	0.661	(0.627 - 0.696)	0.773	(0.455 - 0.902)
	0.660			(======================================
65 to 69	0.669	(0.635 - 0.703)	0.773	(0.539 - 0.900)
70 to 74	0.699	(0.652 - 0.745)	0.802	(0.521 - 0.907)
75 to 79	0.643	(0.56 - 0.726)	0.777	(0.398 - 0.915)
80 to 84	0.483	(0.388 - 0.578)	0.521	(0.130 - 0.838)
85 and over	0.417	(0.338 - 0.496)	0.400	(0.136 - 0.682)
All ages	0.677	(0.665 - 0.689)	0.777	(0.471 - 0.920)

2013-2014 Canadian Community Health Survey

Supplementary table 3. Age and sex-stratified utility norms for arthritis, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	1,723,960		Female			Weighted	2,714,027
			Frequency						Frequency	
	24	050/	3.6.12	T			3.6	050/	3.6.12	T
	Mean	95%	Median	Interquartile			Mean	95%	Median	Interquartile
		Confidence		range				Confidence		range
		Interval						Interval		
Age group						Age				
						group				
12 to 19	0.812	(0.726 - 0.899)	0.868	(0.677 - 0.951)	1.	2 to 19	0.687	(0.565 - 0.809)	0.780	(0.614 - 0.924)
20 to 24	0.765	(0.619 - 0.912)	0.864	(0.700 - 0.976)	2	20 to 24	0.682	(0.561 - 0.803)	0.776	(0.390 - 0.926)
25 to 29	0.644	(0.524 - 0.765)	0.727	(0.353 - 0.890)	2	25 to 29	0.712	(0.637 - 0.786)	0.796	(0.429 - 0.950)
30 to 34	0.585	(0.468 - 0.702)	0.621	(0.331 - 0.892)	3	30 to 34	0.718	(0.653 - 0.783)	0.810	(0.607 - 0.925)
35 to 39	0.694	(0.608 - 0.781)	0.793	(0.443 - 0.921)	3	35 to 39	0.692	(0.634 - 0.750)	0.761	(0.524 - 0.929)

40 to 44	0.691	(0.626 - 0.755)	0.828	(0.470 - 0.900)	40 to 44	0.706	(0.655 - 0.756)	0.798	(0.488 - 0.941)
45 to 49	0.732	(0.680 - 0.784)	0.855	(0.627 - 0.914)	45 to 49	0.743	(0.703 - 0.782)	0.841	(0.612 - 0.949)
50 to 54	0.637	(0.562 - 0.711)	0.773	(0.365 - 0.907)	50 to 54	0.696	(0.667 - 0.725)	0.778	(0.581 - 0.911)
55 to 59	0.708	(0.681 - 0.736)	0.826	(0.547 - 0.921)	55 to 59	0.711	(0.690 - 0.733)	0.821	(0.590 - 0.926)
60 to 64	0.730	(0.702 - 0.758)	0.839	(0.585 - 0.947)	60 to 64	0.749	(0.732 - 0.766)	0.839	(0.627 - 0.950)
65 to 69	0.748	(0.726 - 0.769)	0.842	(0.612 - 0.942)	65 to 69	0.758	(0.744 - 0.773)	0.841	(0.661 - 0.947)
70 to 74	0.778	(0.755 - 0.800)	0.865	(0.668 - 0.945)	70 to 74	0.761	(0.746 - 0.776)	0.851	(0.636 - 0.947)
75 to 79	0.735	(0.706 - 0.764)	0.835	(0.594 - 0.946)	75 to 79	0.715	(0.693 - 0.738)	0.815	(0.568 - 0.923)
80 to 84	0.687	(0.654 - 0.720)	0.764	(0.517 - 0.905)	80 to 84	0.660	(0.634 - 0.686)	0.737	(0.471 - 0.905)
85 and over					85 and				
	0.604	(0.568 - 0.641)	0.685	(0.410 - 0.841)	over	0.565	(0.533 - 0.596)	0.617	(0.331 - 0.825)
All ages	0.712	(0.700 - 0.725)	0.832	(0.571 - 0.925)	All ages	0.717	(0.709 - 0.724)	0.830	(0.590 - 0.93)

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for arthritis, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	4,437,987
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.725	(0.637 - 0.814)	0.797	(0.653 - 0.931)
20 to 24	0.722	(0.627 - 0.818)	0.839	(0.440 - 0.930)
25 to 29	0.683	(0.615 - 0.750)	0.778	(0.385 - 0.927)
30 to 34	0.661	(0.593 - 0.728)	0.766	(0.379 - 0.922)
35 to 39	0.693	(0.641 - 0.745)	0.795	(0.509 - 0.925)
40 to 44	0.700	(0.660 - 0.739)	0.801	(0.489 - 0.928)
45 to 49	0.738	(0.706 - 0.770)	0.844	(0.625 - 0.936)
50 to 54	0.674	(0.643 - 0.706)	0.778	(0.481 - 0.910)

55 to 59	0.710	(0.693 - 0.728)	0.826	(0.581 - 0.924)
60 to 64	0.741	(0.725 - 0.757)	0.839	(0.612 - 0.949)
65 to 69	0.754	(0.742 - 0.766)	0.842	(0.624 - 0.946)
70 to 74	0.767	(0.755 - 0.779)	0.852	(0.662 - 0.947)
75 to 79	0.723	(0.705 - 0.741)	0.830	(0.581 - 0.932)
80 to 84	0.670	(0.650 - 0.690)	0.744	(0.485 - 0.905)
85 and over	0.576	(0.551 - 0.602)	0.645	(0.349 - 0.837)
All ages	0.715	(0.708 - 0.722)	0.830	(0.581 - 0.928)

2013-2014 Canadian Community Health Survey

Supplementary table 4. Age and sex-stratified utility norms for asthma, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	997,126	Female			Weighted	1,335,008
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.876	(0.861 - 0.890)	0.923	(0.841 - 0.977)	12 to 19	0.843	(0.819 - 0.867)	0.918	(0.763 - 0.976)
20 to 24	0.876	(0.850 - 0.902)	0.924	(0.864 - 0.975)	20 to 24	0.828	(0.790 - 0.867)	0.899	(0.723 - 0.961)
25 to 29	0.883	(0.851 - 0.916)	0.931	(0.866 - 0.981)	25 to 29	0.870	(0.841 - 0.899)	0.938	(0.851 - 0.976)
30 to 34	0.855	(0.809 - 0.901)	0.925	(0.853 - 0.981)	30 to 34	0.800	(0.748 - 0.853)	0.923	(0.764 - 0.971)
35 to 39	0.839	(0.792 - 0.887)	0.925	(0.838 - 0.979)	35 to 39	0.814	(0.774 - 0.853)	0.908	(0.750 - 0.973)
40 to 44	0.863	(0.830 - 0.896)	0.927	(0.832 - 0.972)	40 to 44	0.768	(0.714 - 0.821)	0.914	(0.671 - 0.966)

45 to 49	0.834	(0.771 - 0.897)	0.925	(0.778 - 0.962)	45 to 49	0.779	(0.73 - 0.828)	0.896	(0.674 - 0.952)
50 to 54	0.764	(0.710 - 0.818)	0.895	(0.678 - 0.952)	50 to 54	0.772	(0.735 - 0.808)	0.866	(0.683 - 0.955)
55 to 59	0.781	(0.727 - 0.835)	0.903	(0.661 - 0.958)	55 to 59	0.714	(0.680 - 0.748)	0.830	(0.585 - 0.948)
60 to 64	0.706	(0.636 - 0.776)	0.840	(0.507 - 0.950)	60 to 64	0.760	(0.727 - 0.792)	0.842	(0.664 - 0.954)
65 to 69	0.780	(0.732 - 0.828)	0.896	(0.647 - 0.958)	65 to 69	0.769	(0.738 - 0.799)	0.882	(0.671 - 0.953)
70 to 74	0.781	(0.713 - 0.849)	0.898	(0.665 - 0.957)	70 to 74	0.768	(0.734 - 0.803)	0.904	(0.661 - 0.955)
75 to 79	0.710	(0.648 - 0.772)	0.807	(0.562 - 0.922)	75 to 79	0.692	(0.634 - 0.750)	0.778	(0.483 - 0.933)
80 to 84	0.705	(0.629 - 0.781)	0.747	(0.523 - 0.931)	80 to 84	0.671	(0.606 - 0.736)	0.741	(0.471 - 0.925)
85 and over					85 and				
	0.670	(0.580 - 0.759)	0.705	(0.558 - 0.927)	over	0.538	(0.447 - 0.630)	0.585	(0.243 - 0.818)
All ages	0.826	(0.814 - 0.838)	0.920	(0.767 - 0.966)	All ages	0.786	(0.775 - 0.797)	0.904	(0.688 - 0.960)

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for asthma, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	2,332,134
			Frequency	
	Mean	95% Confidence	Median	Interquartile
	Ivicum	Interval	Ivicalan	-
		mervar		range
Age group				
12 to 19	0.859	(0.846 - 0.873)	0.922	(0.797 - 0.977)
20 to 24	0.852	(0.828 - 0.876)	0.921	(0.776 - 0.968)
25 to 29	0.876	(0.854 - 0.897)	0.934	(0.862 - 0.978)
30 to 34	0.825	(0.788 - 0.861)	0.924	(0.796 - 0.977)
35 to 39	0.824	(0.793 - 0.855)	0.921	(0.777 - 0.975)
40 to 44	0.808	(0.772 - 0.843)	0.922	(0.742 - 0.968)
45 to 49	0.805	(0.766 - 0.844)	0.906	(0.688 - 0.958)
50 to 54	0.768	(0.738 - 0.799)	0.892	(0.683 - 0.954)

55 to 59	0.741	(0.711 - 0.771)	0.851	(0.611 - 0.953)
60 to 64	0.740	(0.707 - 0.773)	0.84	(0.614 - 0.952)
65 to 69	0.773	(0.748 - 0.798)	0.894	(0.663 - 0.955)
70 to 74	0.774	(0.739 - 0.808)	0.904	(0.662 - 0.956)
75 to 79	0.698	(0.654 - 0.742)	0.782	(0.540 - 0.93)
80 to 84	0.684	(0.634 - 0.734)	0.743	(0.486 - 0.929)
85 and over	0.580	(0.512 - 0.649)	0.668	(0.327 - 0.841)
All ages	0.803	(0.795 - 0.811)	0.905	(0.726 - 0.963)

2013-2014 Canadian Community Health Survey

Supplementary table 5. Age and sex-stratified utility norms for back problems, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	2,462,986	Female			Weighted	2,805,859
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.787	(0.731 - 0.843)	0.884	(0.696 - 0.975)	12 to 19	0.794	(0.760 - 0.827)	0.859	(0.706 - 0.95)
20 to 24	0.799	(0.759 - 0.839)	0.891	(0.767 - 0.930)	20 to 24	0.804	(0.771 - 0.836)	0.866	(0.731 - 0.957)
25 to 29	0.804	(0.764 - 0.844)	0.919	(0.758 - 0.944)	25 to 29	0.797	(0.774 - 0.820)	0.865	(0.682 - 0.953)
30 to 34	0.764	(0.713 - 0.816)	0.887	(0.613 - 0.973)	30 to 34	0.804	(0.773 - 0.835)	0.892	(0.688 - 0.958)
35 to 39	0.761	(0.724 - 0.798)	0.863	(0.622 - 0.941)	35 to 39	0.770	(0.739 - 0.801)	0.865	(0.663 - 0.942)

40 to 44	0.799	(0.769 - 0.830)	0.890	(0.741 - 0.948)	40 to 44	0.744	(0.707 - 0.781)	0.855	(0.609 - 0.939)
45 to 49	0.767	(0.735 - 0.800)	0.863	(0.660 - 0.948)	45 to 49	0.752	(0.720 - 0.784)	0.841	(0.658 - 0.942)
50 to 54	0.737	(0.706 - 0.768)	0.853	(0.611 - 0.949)	50 to 54	0.712	(0.677 - 0.746)	0.828	(0.607 - 0.945)
55 to 59	0.733	(0.708 - 0.758)	0.841	(0.611 - 0.946)	55 to 59	0.701	(0.678 - 0.724)	0.777	(0.587 - 0.914)
60 to 64	0.719	(0.690 - 0.747)	0.842	(0.553 - 0.946)	60 to 64	0.729	(0.710 - 0.747)	0.832	(0.611 - 0.931)
65 to 69	0.733	(0.709 - 0.757)	0.836	(0.591 - 0.923)	65 to 69	0.709	(0.689 - 0.729)	0.777	(0.581 - 0.909)
70 to 74	0.729	(0.701 - 0.757)	0.834	(0.592 - 0.923)	70 to 74	0.697	(0.673 - 0.721)	0.781	(0.549 - 0.910)
75 to 79	0.699	(0.665 - 0.733)	0.783	(0.555 - 0.910)	75 to 79	0.658	(0.626 - 0.691)	0.743	(0.472 - 0.898)
80 to 84	0.629	(0.582 - 0.675)	0.723	(0.432 - 0.904)	80 to 84	0.586	(0.546 - 0.626)	0.666	(0.345 - 0.865)
85 and over					85 and				
	0.572	(0.514 - 0.629)	0.648	(0.309 - 0.809)	over	0.500	(0.459 - 0.540)	0.516	(0.232 - 0.783)
All ages	0.747	(0.738 - 0.756)	0.854	(0.626 - 0.943)	All ages	0.727	(0.719 - 0.736)	0.832	(0.611 - 0.929)
2012 2014 C	11. 0	'. II 1.1 C				<u> </u>			

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for back problems, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	lation		Weighted	5,268,845
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.791	(0.762 - 0.820)	0.865	(0.707 - 0.964)
20 to 24	0.802	(0.776 - 0.828)	0.885	(0.744 - 0.946)
25 to 29	0.800	(0.778 - 0.823)	0.883	(0.704 - 0.949)
30 to 34	0.786	(0.755 - 0.816)	0.893	(0.682 - 0.962)
35 to 39	0.766	(0.741 - 0.790)	0.865	(0.661 - 0.942)
40 to 44	0.772	(0.747 - 0.796)	0.866	(0.661 - 0.946)
45 to 49	0.759	(0.735 - 0.782)	0.852	(0.659 - 0.946)
50 to 54	0.724	(0.701 - 0.747)	0.835	(0.610 - 0.947)

24 (0.707 - 0 20 (0.705 - 0 11 (0.694 - 0	0.736) 0.802	(0.582 - 0.945) (0.586 - 0.914) (0.581 - 0.915)
	,	, ,
(0.694 - 0	0.729) 0.803	(0.581 - 0.915)
77 (0.652 - 0	0.701) 0.777	(0.517 - 0.905)
0.572 - 0	0.634) 0.684	(0.375 - 0.904)
(0.489 - 0	0.554) 0.563	(0.251 - 0.801)
36 (0.730 - 0	0.742) 0.840	(0.612 - 0.937)
3	36 (0.730 - 0	36 (0.730 - 0.742) 0.840

2013-2014 Canadian Community Health Survey

Supplementary table 6. Age and sex-stratified utility norms for bowel disease, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	401026	Female			Weighted	910,020
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.815	(0.741 - 0.888)	0.908	(0.745 - 0.935)	12 to 19	0.641	(0.496 - 0.785)	0.769	(0.369 - 0.920)
20 to 24	0.776	(0.671 - 0.881)	0.885	(0.691 - 0.954)	20 to 24	0.850	(0.795 - 0.904)	0.924	(0.836 - 0.965)
25 to 29	0.794	(0.705 - 0.883)	0.918	(0.742 - 0.972)	25 to 29	0.798	(0.743 - 0.852)	0.900	(0.688 - 0.966)
30 to 34	0.861	(0.797 - 0.925)	0.929	(0.868 - 0.978)	30 to 34	0.772	(0.690 - 0.854)	0.900	(0.608 - 0.979)
35 to 39	0.774	(0.706 - 0.841)	0.866	(0.654 - 0.960)	35 to 39	0.750	(0.699 - 0.801)	0.861	(0.629 - 0.951)

10 11	0 =		0.611	1 10 1	1 10 11	1 0 ==:		0.0	
40 to 44	0.799	(0.735 - 0.862)	0.914	(0.677 - 0.976)	40 to 44	0.771	(0.727 - 0.815)	0.866	(0.672 - 0.941)
45 to 49	0.794	(0.736 - 0.853)	0.829	(0.650 - 0.922)	45 to 49	0.743	(0.688 - 0.799)	0.865	(0.612 - 0.952)
50 to 54	0.753	(0.687 - 0.820)	0.879	(0.687 - 0.952)	50 to 54	0.711	(0.673 - 0.748)	0.803	(0.605 - 0.911)
55 to 59	0.687	(0.608 - 0.766)	0.726	(0.436 - 0.915)	55 to 59	0.716	(0.681 - 0.751)	0.820	(0.606 - 0.929)
60 to 64	0.623	(0.530 - 0.715)	0.794	(0.243 - 0.920)	60 to 64	0.707	(0.669 - 0.745)	0.785	(0.562 - 0.916)
65 to 69	0.715	(0.647 - 0.783)	0.815	(0.570 - 0.949)	65 to 69	0.699	(0.666 - 0.732)	0.790	(0.562 - 0.918)
70 to 74	0.774	(0.715 - 0.832)	0.865	(0.661 - 0.950)	70 to 74	0.703	(0.658 - 0.747)	0.802	(0.519 - 0.919)
75 to 79	0.603	(0.494 - 0.712)	0.645	(0.388 - 0.896)	75 to 79	0.675	(0.617 - 0.732)	0.784	(0.514 - 0.905)
80 to 84	0.635	(0.549 - 0.721)	0.662	(0.431 - 0.860)	80 to 84	0.645	(0.566 - 0.724)	0.776	(0.453 - 0.901)
85 and over					85 and				
	0.638	(0.546 - 0.729)	0.680	(0.437 - 0.837)	over	0.486	(0.418 - 0.555)	0.487	(0.216 - 0.798)
	0.749	(0.724 - 0.773)	0.866	(0.618 - 0.950)	All ages	0.730	(0.715 - 0.745)	0.842	(0.611 - 0.947)
All ages									
2012 2014 C	1' 0	'. II 1:1 C					1		1

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for bowel disease, household population aged 12 and older, Canada, 2013-2014 (continued)

Total population			Weighted	1,311,046
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.711	(0.611 - 0.810)	0.868	(0.580 - 0.930)
20 to 24	0.829	(0.775 - 0.883)	0.922	(0.788 - 0.966)
25 to 29	0.796	(0.751 - 0.841)	0.909	(0.711 - 0.966)
30 to 34	0.806	(0.747 - 0.865)	0.924	(0.667 - 0.979)
35 to 39	0.759	(0.719 - 0.798)	0.865	(0.631 - 0.952)
40 to 44	0.780	(0.743 - 0.818)	0.875	(0.681 - 0.952)
45 to 49	0.757	(0.713 - 0.801)	0.857	(0.654 - 0.948)
50 to 54	0.721	(0.687 - 0.754)	0.837	(0.611 - 0.919)

55 to 59	0.707	(0.672 - 0.741)	0.793	(0.582 - 0.919)
60 to 64	0.679	(0.638 - 0.720)	0.787	(0.489 - 0.916)
65 to 69	0.704	(0.673 - 0.734)	0.795	(0.563 - 0.941)
70 to 74	0.721	(0.684 - 0.758)	0.831	(0.580 - 0.946)
75 to 79	0.657	(0.600 - 0.714)	0.777	(0.471 - 0.905)
80 to 84	0.642	(0.580 - 0.705)	0.772	(0.443 - 0.898)
85 and over	0.519	(0.460 - 0.578)	0.527	(0.277 - 0.807)
All agos	0.735	(0.723 - 0.748)	0.854	(0.611 - 0.948)
All ages	0.733	(0.723 - 0.740)	0.034	(0.011 - 0.748)

2013-2014 Canadian Community Health Survey

Supplementary table 7. Age and sex-stratified utility norms for cancer, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	249,852	Female			Weighted	273,426
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
ı		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19*					12 to 19*				
20 to 24*					20 to 24*				
25 to 29	0.823	(0.657 - 0.990)	0.778	(0.760 - 0.795)	25 to 29	0.841	(0.717 - 0.965)	0.875	(0.644 - 0.890)
30 to 34	0.861	(0.630 - 1.000)	0.913	(0.518 - 0.957)	30 to 34	0.695	(0.213 - 1.000)	0.975	(0.154 - 0.988)
35 to 39	0.603	(0.264 - 0.941)	0.663	(0.434 - 0.745)	35 to 39	0.787	(0.670 - 0.903)	0.766	(0.614 - 0.917)
40 to 44	0.783	(0.412 - 1.000)	0.761	(0.646 - 0.849)	40 to 44	0.810	(0.689 - 0.931)	0.895	(0.810 - 0.978)

45 to 49	0.631	(0.390 - 0.872)	0.398	(0.356 - 0.973)	45 to 49	0.876	(0.820 - 0.932)	0.907	(0.840 - 0.918)
50 to 54	0.750	(0.637 - 0.863)	0.872	(0.605 - 0.924)	50 to 54	0.740	(0.657 - 0.824)	0.853	(0.627 - 0.935)
55 to 59	0.798	(0.744 - 0.852)	0.886	(0.709 - 0.959)	55 to 59	0.784	(0.735 - 0.832)	0.841	(0.657 - 0.942)
60 to 64	0.767	(0.668 - 0.866)	0.910	(0.687 - 0.953)	60 to 64	0.784	(0.737 - 0.831)	0.887	(0.689 - 0.956)
65 to 69	0.799	(0.762 - 0.836)	0.898	(0.710 - 0.952)	65 to 69	0.797	(0.765 - 0.828)	0.884	(0.674 - 0.952)
70 to 74	0.777	(0.715 - 0.839)	0.896	(0.667 - 0.955)	70 to 74	0.798	(0.760 - 0.836)	0.890	(0.723 - 0.945)
75 to 79	0.783	(0.732 - 0.834)	0.892	(0.732 - 0.953)	75 to 79	0.731	(0.675 - 0.786)	0.776	(0.612 - 0.947)
80 to 84	0.674	(0.601 - 0.747)	0.774	(0.452 - 0.905)	80 to 84	0.685	(0.618 - 0.753)	0.767	(0.517 - 0.900)
85 and over					85 and				
	0.689	(0.595 - 0.783)	0.798	(0.540 - 0.941)	over	0.497	(0.389 - 0.606)	0.539	(0.332 - 0.778)
	0.755	(0.726 - 0.783)	0.904	(0.659 - 0.953)	All ages	0.763	(0.740 - 0.786)	0.860	(0.667 - 0.948)
All ages									

^{*}Cells were hidden to comply with Statistics Canada's vetting rules

Age and sex-stratified utility norms for cancer, household population aged 12 and older, Canada, 2013-2014 (continued)

Total population			Weighted	523,278
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.614	(0.136 - 1.000)	0.795	(0.330 - 0.900)
20 to 24	0.674	(0.408 - 0.940)	0.773	(0.573 - 0.935)
25 to 29	0.830	(0.749 - 0.911)	0.786	(0.758 - 0.882)
30 to 34	0.713	(0.328 - 1.000)	0.975	(0.434 - 0.988)
35 to 39	0.737	(0.615 - 0.859)	0.765	(0.664 - 0.901)
40 to 44	0.804	(0.693 - 0.914)	0.903	(0.805 - 0.963)
45 to 49	0.797	(0.689 - 0.906)	0.901	(0.743 - 0.925)
50 to 54	0.744	(0.680 - 0.808)	0.862	(0.623 - 0.931)

0.790	(0.755 - 0.826)	0.866	(0.664 - 0.951)
0.774	(0.714 - 0.835)	0.894	(0.689 - 0.958)
0.798	(0.774 - 0.821)	0.895	(0.706 - 0.952)
0.786	(0.748 - 0.823)	0.895	(0.687 - 0.955)
0.756	(0.719 - 0.793)	0.839	(0.661 - 0.950)
0.679	(0.627 - 0.731)	0.773	(0.504 - 0.905)
0.605	(0.529 - 0.681)	0.688	(0.386 - 0.919)
0.759	(0.741 - 0.777)	0.866	(0.663 - 0.951)
	0.774 0.798 0.786 0.756 0.679 0.605	0.774 (0.714 - 0.835) 0.798 (0.774 - 0.821) 0.786 (0.748 - 0.823) 0.756 (0.719 - 0.793) 0.679 (0.627 - 0.731) 0.605 (0.529 - 0.681)	0.774 (0.714 - 0.835) 0.894 0.798 (0.774 - 0.821) 0.895 0.786 (0.748 - 0.823) 0.895 0.756 (0.719 - 0.793) 0.839 0.679 (0.627 - 0.731) 0.773 0.605 (0.529 - 0.681) 0.688

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Supplementary table 8. Age and sex-stratified utility norms for chronic obstructive pulmonary disease, household population aged 12 and older, Canada, 2013-2014

Mean 95% Confidence Interval	Frequency Median	Interquartile range		Mean	95%	Frequency Median	Interquartile
Confidence	Median	_		Mean	95%	Median	Interquartile
Confidence	Median	_		Mean	95%	Median	Interquartile
		range			1	1	morquarmo
Interval					Confidence		range
					Interval		
			Age				
			group				
			12 to 19*				
			20 to 24*				
			25 to 29*				
			30 to 34*				
.791 (0.697 - 0.885	0.863	(0.700 - 0.973)	35 to 39	0.580	(0.375 - 0.784)	0.706	(0.133 - 0.927)
				Age group 12 to 19* 20 to 24* 25 to 29* 30 to 34*	Age group 12 to 19* 20 to 24* 25 to 29* 30 to 34*	Age group 12 to 19* 20 to 24* 25 to 29* 30 to 34*	Age group 12 to 19* 20 to 24* 25 to 29* 30 to 34*

40 to 44	0.764	(0.664 - 0.865)	0.866	(0.679 - 0.953)	40 to 44	0.523	(0.395 - 0.651)	0.510	(0.244 - 0.857)
45 to 49	0.701	(0.570 - 0.832)	0.838	(0.401 - 0.952)	45 to 49	0.708	(0.632 - 0.784)	0.777	(0.525 - 0.897)
50 to 54	0.657	(0.573 - 0.741)	0.805	(0.295 - 0.924)	50 to 54	0.569	(0.465 - 0.673)	0.686	(0.263 - 0.898)
55 to 59	0.678	(0.626 - 0.730)	0.786	(0.432 - 0.912)	55 to 59	0.628	(0.573 - 0.683)	0.741	(0.348 - 0.889)
60 to 64	0.608	(0.525 - 0.691)	0.668	(0.311 - 0.931)	60 to 64	0.634	(0.591 - 0.678)	0.765	(0.436 - 0.904)
65 to 69	0.647	(0.591 - 0.704)	0.653	(0.426 - 0.900)	65 to 69	0.701	(0.661 - 0.741)	0.831	(0.563 - 0.915)
70 to 74	0.737	(0.689 - 0.785)	0.843	(0.602 - 0.928)	70 to 74	0.706	(0.660 - 0.753)	0.805	(0.554 - 0.917)
75 to 79	0.723	(0.659 - 0.787)	0.840	(0.600 - 0.918)	75 to 79	0.599	(0.538 - 0.659)	0.596	(0.351 - 0.905)
80 to 84	0.601	(0.510 - 0.691)	0.661	(0.293 - 0.905)	80 to 84	0.643	(0.581 - 0.704)	0.718	(0.448 - 0.904)
85 and over	 I				85 and				
	0.569	(0.471 - 0.666)	0.632	(0.340 - 0.849)	over	0.500	(0.425 - 0.575)	0.477	(0.200 - 0.818)
					+				
All ages	0.672	(0.647 - 0.696)	0.781	(0.444 - 0.922)	All ages	0.631	(0.610 - 0.652)	0.727	(0.367 - 0.905)
	l		ı		'			ı	
2012 2014 G		. II 1.1 C							

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*Not asked to respondents below 35 years of age

Age and sex-stratified utility norms for COPD, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	760,326
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19*				
20 to 24*				
25 to 29*				
30 to 34*				
35 to 39	0.641	(0.492 - 0.790)	0.831	(0.258 - 0.928)
40 to 44	0.631	(0.538 - 0.725)	0.697	(0.339 - 0.918)
45 to 49	0.705	(0.633 - 0.777)	0.798	(0.506 - 0.903)
50 to 54	0.608	(0.538 - 0.679)	0.774	(0.269 - 0.919)

55 to 59	0.651	(0.611 - 0.690)	0.744	(0.387 - 0.905)
60 to 64	0.622	(0.576 - 0.668)	0.740	(0.360 - 0.905)
65 to 69	0.675	(0.642 - 0.709)	0.756	(0.474 - 0.908)
70 to 74	0.720	(0.686 - 0.754)	0.834	(0.581 - 0.923)
75 to 79	0.651	(0.602 - 0.700)	0.727	(0.434 - 0.905)
80 to 84	0.624	(0.570 - 0.678)	0.687	(0.392 - 0.905)
85 and over	0.525	(0.468 - 0.583)	0.576	(0.232 - 0.821)
All ages	0.649	(0.633 - 0.665)	0.744	(0.403 - 0.905)

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^{*}Not asked to respondents below 35 years of age

Supplementary table 9. Age and sex-stratified utility norms for diabetes, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	1,046,609	Female			Weighted	853,151
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.878	(0.806 - 0.950)	0.890	(0.821 - 0.970)	12 to 19	0.678	(0.408 - 0.947)	0.841	(0.453 - 0.974)
20 to 24	0.868	(0.791 - 0.945)	0.903	(0.769 - 0.964)	20 to 24	0.622	(0.363 - 0.880)	0.759	(0.369 - 0.915)
25 to 29	0.842	(0.735 - 0.948)	0.891	(0.833 - 0.956)	25 to 29	0.857	(0.772 - 0.943)	0.936	(0.788 - 0.976)
30 to 34	0.901	(0.841 - 0.961)	0.939	(0.897 - 0.979)	30 to 34	0.805	(0.722 - 0.887)	0.908	(0.782 - 0.957)
35 to 39	0.823	(0.734 - 0.913)	0.899	(0.768 - 0.963)	35 to 39	0.796	(0.711 - 0.882)	0.924	(0.689 - 0.978)

0.799 0.827 0.798	(0.769 - 0.829) (0.807 - 0.847) (0.770 - 0.826) (0.717 - 0.784)	0.905 0.905 0.900 0.873	(0.714 - 0.960) (0.775 - 0.959) (0.717 - 0.957) (0.632 - 0.953)	55 to 59 60 to 64 65 to 69 70 to 74 75 to 79	0.765 0.737 0.778 0.697	(0.733 - 0.798) (0.706 - 0.768) (0.752 - 0.805) (0.657 - 0.737)	0.781 0.896 0.840 0.904 0.802	(0.605 - 0.949) (0.648 - 0.958) (0.611 - 0.951) (0.660 - 0.952) (0.500 - 0.935)
.827	(0.807 - 0.847)	0.905	(0.714 - 0.960) (0.775 - 0.959)	60 to 64 65 to 69	0.765	(0.733 - 0.798)	0.896	(0.648 - 0.958)
.799	(0.769 - 0.829)		, ,			, ,		, ,
			(0.732 0.704)	33 to 39	0.724	(0.003 0.704)	0.781	(0.605 - 0.949)
0.796	(0.741 - 0.852)	0.913	, ,		0.752	(0.691 - 0.812)		(0.687 - 0.959)
.766	(0.706 - 0.826)	0.871	, ,			, ,		(0.400 - 0.950)
.7	96	96 (0.741 - 0.852)	96 (0.741 - 0.852) 0.913	96 (0.741 - 0.852) 0.913 (0.767 - 0.965)	96 (0.741 - 0.852) 0.913 (0.767 - 0.965) 50 to 54	96 (0.741 - 0.852) 0.913 (0.767 - 0.965) 50 to 54 0.752	96 (0.741 - 0.852) 0.913 (0.767 - 0.965) 50 to 54 0.752 (0.691 - 0.812)	96 (0.741 - 0.852) 0.913 (0.767 - 0.965) 50 to 54 0.752 (0.691 - 0.812) 0.896

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Age and sex-stratified utility norms for diabetes, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	1,899,760
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.778	(0.627 - 0.930)	0.887	(0.737 - 0.973)
20 to 24	0.739	(0.573 - 0.905)	0.886	(0.665 - 0.935)
25 to 29	0.850	(0.784 - 0.916)	0.912	(0.831 - 0.980)
30 to 34	0.853	(0.799 - 0.907)	0.926	(0.797 - 0.972)
35 to 39	0.807	(0.745 - 0.870)	0.920	(0.713 - 0.974)
40 to 44	0.838	(0.798 - 0.879)	0.929	(0.772 - 0.978)
45 to 49	0.744	(0.697 - 0.791)	0.861	(0.626 - 0.959)
50 to 54	0.777	(0.736 - 0.818)	0.902	(0.719 - 0.962)
		•		ŕ

55 to 59	0.773	(0.747 - 0.798)	0.897	(0.655 - 0.959)
60 to 64	0.784	(0.761 - 0.807)	0.905	(0.667 - 0.959)
65 to 69	0.787	(0.768 - 0.806)	0.904	(0.668 - 0.956)
70 to 74	0.790	(0.770 - 0.809)	0.904	(0.701 - 0.955)
75 to 79	0.725	(0.698 - 0.751)	0.839	(0.574 - 0.948)
80 to 84	0.661	(0.618 - 0.704)	0.780	(0.432 - 0.927)
85 and over	0.594	(0.533 - 0.654)	0.682	(0.343 - 0.904)
All ages	0.766	(0.757 - 0.776)	0.904	(0.663 - 0.958)
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Supplementary table 10. Age and sex-stratified utility norms for effects of a stroke, household population aged 12 and older, Canada, 2013-2014

 		Weighted	151,581	Female			Weighted	154,558
		Frequency		,		1	Frequency	
								
Mean	95%	Median	Interquartile	'	Mean	95%	Median	Interquartile
 	Confidence		range			Confidence		range
	Interval			'		Interval		
				Age		-		
	, 			group				
				12 to 19*				
1				20 to 24*				
1				25 to 29*		-		
0.768	(0.388 - 1.000)	0.725	(0.392 - 0.852)	30 to 34	0.675	(0.158 - 1.191)	0.631	(-0.102 - 0.974)
0.654	(0.432 - 0.876)	0.534	(0.452 - 0.703)	35 to 39	0.784	(0.585 - 0.983)	0.897	(0.488 - 0.938)
	0.768	Confidence Interval 0.768 (0.388 - 1.000)	Mean 95% Median Confidence Interval 0.768 (0.388 - 1.000) 0.725	Frequency	Frequency	Frequency	Mean 95% Median Interquartile Mean 95% Confidence range Confidence Interval Interval Age group 12 to 19* 20 to 24* 25 to 29* 25 to 29* 0.768 (0.388 - 1.000) 0.725 (0.392 - 0.852) 30 to 34 0.675 (0.158 - 1.191)	Frequency Freq

40 to 44	0.693	(0.516 - 0.870)	0.813	(0.36 0- 0.867)	40 to 44	0.377	(0.223 - 0.531)	0.348	(0.336 - 0.451)
45 to 49	0.486	(0.278 - 0.695)	0.342	(0.230 - 0.697)	45 to 49	0.786	(0.657 - 0.916)	0.808	(0.711 - 0.846)
50 to 54	0.682	(0.584 - 0.780)	0.808	(0.442 - 0.881)	50 to 54	0.476	(0.336 - 0.616)	0.449	(0.244 - 0.763)
55 to 59	0.663	(0.505 - 0.821)	0.772	(0.407 - 0.953)	55 to 59	0.604	(0.510 - 0.698)	0.699	(0.427 - 0.765)
60 to 64	0.643	(0.561 - 0.724)	0.709	(0.414 - 0.900)	60 to 64	0.549	(0.433 - 0.665)	0.680	(0.327 - 0.776)
65 to 69	0.644	(0.569 - 0.719)	0.735	(0.435 - 0.895)	65 to 69	0.544	(0.470 - 0.618)	0.572	(0.321 - 0.789)
70 to 74	0.677	(0.613 - 0.741)	0.744	(0.480 - 0.903)	70 to 74	0.703	(0.635 - 0.771)	0.784	(0.522 - 0.930)
75 to 79	0.611	(0.540 - 0.681)	0.699	(0.401 - 0.866)	75 to 79	0.529	(0.436 - 0.623)	0.621	(0.188 - 0.838)
80 to 84	0.558	(0.444 - 0.671)	0.662	(0.335 - 0.904)	80 to 84	0.477	(0.388 - 0.567)	0.507	(0.169 - 0.747)
85 and over					85 and				
	0.482	(0.382 - 0.582)	0.495	(0.117 - 0.807)	over	0.270	(0.178 - 0.363)	0.256	(0.037 - 0.381)
All ages	0.626	(0.591 - 0.661)	0.725	(0.381 - 0.904)	All ages	0.536	(0.494 - 0.578)	0.605	(0.276 - 0.826)
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^{*}Cells were hidden to comply with Statistics Canada's vetting rules

Age and sex-stratified utility norms for effects of a stroke, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	306,139
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.582	(0.184 - 0.981)	0.865	(0.405 - 0.934)
20 to 24	0.828	(0.595 - 1.000)	0.934	(0.754 - 0.965)
25 to 29	0.536	(0.365 - 0.706)	0.416	(0.351 - 0.626)
30 to 34	0.718	(0.401 - 1.000)	0.909	(0.385 - 0.945)
35 to 39	0.734	(0.584 - 0.884)	0.763	(0.457 - 0.921)
40 to 44	0.579	(0.426 - 0.733)	0.622	(0.336 - 0.829)
45 to 49	0.645	(0.482 - 0.809)	0.740	(0.346 - 0.852)
50 to 54	0.548	(0.440 - 0.656)	0.540	(0.311 - 0.835)

55 to 59	0.633	(0.540 - 0.727)	0.720	(0.425 - 0.896)
60 to 64	0.602	(0.535 - 0.669)	0.707	(0.358 - 0.862)
65 to 69	0.599	(0.546 - 0.651)	0.659	(0.384 - 0.863)
70 to 74	0.687	(0.640 - 0.734)	0.763	(0.501 - 0.925)
75 to 79	0.575	(0.518 - 0.633)	0.668	(0.330 - 0.853)
80 to 84	0.511	(0.440 - 0.582)	0.575	(0.253 - 0.779)
85 and over	0.337	(0.257 - 0.417)	0.276	(0.038 - 0.620)
All ages	0.581	(0.553 - 0.608)	0.663	(0.331 - 0.864)

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Supplementary table 11. Age and sex-stratified utility norms for heart disease, household population aged 12 and older, Canada, 2013-2014

Male	, 		Weighted	783,218	Female			Weighted	577,033
			Frequency					Frequency	
						1	2.724		
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
	, 	Confidence	'	range			Confidence	'	range
		Interval	!				Interval	!	
Age group					Age				
]	!		group			!	
12 to 19	0.834	(0.769 - 0.899)	0.911	(0.759 - 0.966)	12 to 19	0.613	(0.263 - 0.962)	0.750	(0.493 - 0.925)
20 to 24	0.796	(0.662 - 0.930)	0.856	(0.760 - 0.977)	20 to 24	0.711	(0.563 - 0.859)	0.802	(0.554 - 0.929)
25 to 29	0.905	(0.835 - 0.975)	0.926	(0.889 - 0.982)	25 to 29	0.825	(0.702 - 0.948)	0.906	(0.688 - 0.981)
30 to 34	0.789	(0.648 - 0.930)	0.888	(0.595 - 0.918)	30 to 34	0.749	(0.576 - 0.923)	0.889	(0.437 - 0.979)
35 to 39	0.708	(0.501 - 0.916)	0.950	(0.338 - 0.986)	35 to 39	0.753	(0.560 - 0.947)	0.903	(0.657 - 0.964)

40 to 44	0.771	(0.677 - 0.866)	0.920	(0.621 - 0.949)	40 to 44	0.531	(0.339 - 0.722)	0.561	(0.179 - 0.897)
45 to 49	0.830	(0.735 - 0.926)	0.952	(0.850 - 0.969)	45 to 49	0.749	(0.637 - 0.861)	0.850	(0.706 - 0.935)
50 to 54	0.619	(0.426 - 0.811)	0.837	(0.244 - 0.953)	50 to 54	0.707	(0.560 - 0.854)	0.904	(0.606 - 0.955)
55 to 59	0.782	(0.736 - 0.827)	0.899	(0.686 - 0.958)	55 to 59	0.652	(0.584 - 0.720)	0.763	(0.384 - 0.902)
60 to 64	0.775	(0.745 - 0.804)	0.897	(0.646 - 0.956)	60 to 64	0.723	(0.674 - 0.772)	0.821	(0.611 - 0.955)
65 to 69	0.812	(0.786 - 0.837)	0.899	(0.726 - 0.956)	65 to 69	0.732	(0.696 - 0.768)	0.835	(0.612 - 0.948)
70 to 74	0.789	(0.761 - 0.816)	0.891	(0.687 - 0.952)	70 to 74	0.738	(0.709 - 0.767)	0.838	(0.612 - 0.948)
75 to 79	0.737	(0.703 - 0.770)	0.833	(0.600 - 0.947)	75 to 79	0.675	(0.635 - 0.715)	0.766	(0.528 - 0.904)
80 to 84	0.675	(0.629 - 0.721)	0.769	(0.491 - 0.920)	80 to 84	0.649	(0.605 - 0.693)	0.743	(0.443 - 0.905)
85 and over					85 and				
	0.632	(0.579 - 0.684)	0.726	(0.414 - 0.895)	over	0.482	(0.430 - 0.534)	0.475	(0.187 - 0.781)
All ages	0.753	(0.734 - 0.772)	0.891	(0.632 - 0.954)	All ages	0.672	(0.652 - 0.691)	0.778	(0.471 - 0.923)

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Age and sex-stratified utility norms for heart disease, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	1,360,251
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.768	(0.641 - 0.896)	0.896	(0.717 - 0.959)
20 to 24	0.750	(0.648 - 0.853)	0.805	(0.695 - 0.940)
25 to 29	0.856	(0.785 - 0.927)	0.925	(0.745 - 0.982)
30 to 34	0.770	(0.657 - 0.882)	0.897	(0.592 - 0.929)
35 to 39	0.733	(0.593 - 0.872)	0.912	(0.642 - 0.979)
40 to 44	0.655	(0.539 - 0.770)	0.841	(0.284 - 0.948)
45 to 49	0.796	(0.722 - 0.870)	0.917	(0.730 - 0.964)
50 to 54	0.654	(0.526 - 0.781)	0.864	(0.326 - 0.954)

55 to 59	0.733	(0.602 0.772)	0.865	(0.611 0.052)
33 10 39	0.733	(0.693 - 0.773)	0.803	(0.611 - 0.953)
60 to 64	0.758	(0.733 - 0.782)	0.904	(0.616 - 0.956)
65 to 69	0.783	(0.763 - 0.804)	0.904	(0.681 - 0.954)
70 to 74	0.768	(0.748 - 0.788)	0.851	(0.661 - 0.950)
75 to 79	0.710	(0.683 - 0.736)	0.780	(0.575 - 0.919)
80 to 84	0.662	(0.631 - 0.693)	0.763	(0.471 - 0.910)
85 and over	0.537	(0.496 - 0.578)	0.576	(0.259 - 0.828)
All ages	0.719	(0.705 - 0.732)	0.842	(0.581 - 0.950)

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Supplementary table 12. Age and sex-stratified utility norms for high blood pressure, household population aged 12 and older,

Canada, 2013-2014

Male			Weighted	2,586,302	Female			Weighted	2,472,842
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.817	(0.725 - 0.909)	0.907	(0.727 - 0.976)	12 to 19	0.671	(0.370 - 0.973)	0.779	(0.738 - 0.928)
20 to 24	0.718	(0.565 - 0.871)	0.893	(0.669 - 0.946)	20 to 24	0.668	(0.496 - 0.841)	0.865	(0.389 - 0.903)
25 to 29	0.823	(0.733 - 0.914)	0.865	(0.785 - 0.931)	25 to 29	0.848	(0.780 - 0.915)	0.923	(0.772 - 0.965)
30 to 34	0.824	(0.747 - 0.901)	0.923	(0.735 - 0.965)	30 to 34	0.842	(0.785 - 0.899)	0.925	(0.778 - 0.976)
35 to 39	0.833	(0.785 - 0.880)	0.915	(0.803 - 0.978)	35 to 39	0.783	(0.715 - 0.852)	0.904	(0.687 - 0.975)

40 to 44	0.836	(0.791 - 0.880)	0.926	(0.800 - 0.971)	40 to 44	0.800	(0.730 - 0.870)	0.917	(0.686 - 0.974)
45 to 49	0.845	(0.808 - 0.882)	0.926	(0.800 - 0.963)	45 to 49	0.797	(0.764 - 0.831)	0.894	(0.726 - 0.958)
50 to 54	0.806	(0.755 - 0.856)	0.911	(0.777 - 0.964)	50 to 54	0.770	(0.735 - 0.805)	0.897	(0.662 - 0.957)
55 to 59	0.823	(0.803 - 0.843)	0.907	(0.783 - 0.962)	55 to 59	0.803	(0.786 - 0.820)	0.896	(0.688 - 0.954)
60 to 64	0.825	(0.807 - 0.843)	0.905	(0.778 - 0.960)	60 to 64	0.800	(0.782 - 0.817)	0.905	(0.687 - 0.959)
65 to 69	0.820	(0.804 - 0.836)	0.904	(0.743 - 0.959)	65 to 69	0.801	(0.787 - 0.816)	0.905	(0.691 - 0.957)
70 to 74	0.829	(0.811 - 0.847)	0.905	(0.778 - 0.958)	70 to 74	0.809	(0.794 - 0.824)	0.905	(0.727 - 0.957)
75 to 79	0.783	(0.760 - 0.806)	0.904	(0.704 - 0.954)	75 to 79	0.750	(0.728 - 0.772)	0.842	(0.617 - 0.950)
80 to 84	0.721	(0.690 - 0.753)	0.834	(0.592 - 0.945)	80 to 84	0.720	(0.697 - 0.743)	0.836	(0.581 - 0.947)
85 and over					85 and				
	0.681	(0.636 - 0.726)	0.783	(0.547 - 0.905)	over	0.581	(0.548 - 0.614)	0.664	(0.317 - 0.867)
All ages	0.811	(0.802 - 0.820)	0.905	(0.744 - 0.96)	All ages	0.775	(0.767 - 0.782)	0.904	(0.663 - 0.955)
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Age and sex-stratified utility norms for high blood pressure, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	5,059,144
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.762	(0.629 - 0.895)	0.866	(0.737 - 0.945)
20 to 24	0.703	(0.588 - 0.817)	0.866	(0.459 - 0.956)
25 to 29	0.833	(0.774 - 0.891)	0.894	(0.786 - 0.955)
30 to 34	0.829	(0.771 - 0.887)	0.923	(0.750 - 0.970)
35 to 39	0.810	(0.770 - 0.850)	0.922	(0.762 - 0.977)
40 to 44	0.822	(0.783 - 0.861)	0.924	(0.767 - 0.972)
45 to 49	0.827	(0.800 - 0.854)	0.916	(0.748 - 0.962)
50 to 54	0.790	(0.759 - 0.822)	0.903	(0.725 - 0.961)

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55 to 59	0.814	(0.800 - 0.827)	0.901	(0.744 - 0.958)
60 to 64	0.813	(0.801 - 0.825)	0.905	(0.743 - 0.960)
65 to 69	0.810	(0.800 - 0.821)	0.905	(0.725 - 0.958)
70 to 74	0.818	(0.806 - 0.830)	0.905	(0.762 - 0.957)
75 to 79	0.765	(0.748 - 0.782)	0.865	(0.661 - 0.952)
80 to 84	0.720	(0.702 - 0.739)	0.835	(0.582 - 0.946)
85 and over	0.614	(0.586 - 0.641)	0.691	(0.354 - 0.904)
All ages	0.793	(0.787 - 0.799)	0.905	(0.706 - 0.958)

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Supplementary table 13. Age and sex-stratified utility norms for migraines, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	850,135	Female			Weighted	2,047,871
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.831	(0.806 - 0.856)	0.919	(0.764 - 0.974)	12 to 19	0.822	(0.801 - 0.843)	0.886	(0.743 - 0.958)
20 to 24	0.805	(0.744 - 0.865)	0.904	(0.725 - 0.979)	20 to 24	0.863	(0.840 - 0.886)	0.924	(0.801 - 0.970)
25 to 29	0.783	(0.723 - 0.842)	0.900	(0.743 - 0.952)	25 to 29	0.847	(0.823 - 0.871)	0.920	(0.801 - 0.967)
30 to 34	0.813	(0.751 - 0.876)	0.924	(0.791 - 0.981)	30 to 34	0.816	(0.784 - 0.847)	0.901	(0.743 - 0.969)
35 to 39	0.829	(0.780 - 0.878)	0.923	(0.825 - 0.974)	35 to 39	0.825	(0.799 - 0.852)	0.918	(0.744 - 0.974)

40 to 44	0.821	(0.782 - 0.861)	0.897	(0.800 - 0.952)	40 to 44	0.777	(0.739 - 0.814)	0.898	(0.670 - 0.970)
45 to 49	0.723	(0.671 - 0.774)	0.840	(0.560 - 0.927)	45 to 49	0.781	(0.745 - 0.816)	0.895	(0.682 - 0.951)
50 to 54	0.698	(0.644 - 0.753)	0.840	(0.505 - 0.948)	50 to 54	0.725	(0.693 - 0.758)	0.833	(0.608 - 0.949)
55 to 59	0.711	(0.644 - 0.778)	0.840	(0.414 - 0.950)	55 to 59	0.736	(0.702 - 0.770)	0.851	(0.609 - 0.951)
60 to 64	0.664	(0.616 - 0.711)	0.744	(0.482 - 0.904)	60 to 64	0.751	(0.722 - 0.780)	0.839	(0.622 - 0.949)
65 to 69	0.698	(0.616 - 0.780)	0.840	(0.437 - 0.947)	65 to 69	0.721	(0.681 - 0.761)	0.838	(0.611 - 0.947)
70 to 74	0.766	(0.684 - 0.848)	0.869	(0.668 - 0.953)	70 to 74	0.714	(0.660 - 0.769)	0.840	(0.520 - 0.941)
75 to 79	0.601	(0.455 - 0.748)	0.677	(0.386 - 0.815)	75 to 79	0.662	(0.597 - 0.728)	0.696	(0.565 - 0.897)
80 to 84	0.719	(0.604 - 0.835)	0.781	(0.616 - 0.938)	80 to 84	0.645	(0.544 - 0.747)	0.731	(0.415 - 0.931)
85 and over					85 and				
	0.595	(0.438 - 0.752)	0.642	(0.306 - 0.779)	over	0.508	(0.330 - 0.685)	0.427	(0.174 - 0.886)
All ages	0.766	(0.750 - 0.783)	0.894	(0.662 - 0.957)	All ages	0.785	(0.776 - 0.794)	0.894	(0.684 - 0.958)
		'		1	1	1	1		1

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Age and sex-stratified utility norms for migraines, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	2,898,005
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.825	(0.809 - 0.842)	0.889	(0.744 - 0.965)
20 to 24	0.845	(0.821 - 0.869)	0.923	(0.788 - 0.974)
25 to 29	0.829	(0.805 - 0.852)	0.914	(0.777 - 0.967)
30 to 34	0.815	(0.784 - 0.846)	0.919	(0.765 - 0.975)
35 to 39	0.826	(0.803 - 0.850)	0.919	(0.765 - 0.974)
40 to 44	0.789	(0.759 - 0.819)	0.899	(0.685 - 0.967)
45 to 49	0.764	(0.734 - 0.794)	0.892	(0.661 - 0.948)
50 to 54	0.718	(0.690 - 0.745)	0.835	(0.602 - 0.949)

55 to 59	0.729	(0.697 - 0.760)	0.849	(0.601 - 0.951)
60 to 64	0.726	(0.700 - 0.751)	0.834	(0.611 - 0.946)
65 to 69	0.715	(0.681 - 0.749)	0.838	(0.582 - 0.949)
70 to 74	0.731	(0.687 - 0.775)	0.851	(0.560 - 0.952)
75 to 79	0.648	(0.586 - 0.710)	0.694	(0.564 - 0.890)
80 to 84	0.665	(0.586 - 0.744)	0.748	(0.432 - 0.933)
85 and over	0.529	(0.393 - 0.666)	0.569	(0.181 - 0.839)
All ages	0.780	(0.771 - 0.788)	0.894	(0.683 - 0.958)

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Supplementary table 14. Age and sex-stratified utility norms for mood disorder, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	850,939	F	emale			Weighted	1,343,179
			Frequency						Frequency	
	Mean	95%	Median	Interquartile			Mean	95%	Median	Interquartile
		Confidence		range				Confidence		range
		Interval						Interval		
Age group						Age				
					g	group				
12 to 19	0.704	(0.654 - 0.753)	0.756	(0.595 - 0.895)	12	to 19	0.660	(0.622 - 0.698)	0.709	(0.462 - 0.865)
20 to 24	0.670	(0.606 - 0.734)	0.761	(0.493 - 0.897)	20	to 24	0.748	(0.715 - 0.781)	0.822	(0.673 - 0.922)
25 to 29	0.722	(0.664 - 0.781)	0.787	(0.626 - 0.912)	25	to 29	0.738	(0.702 - 0.773)	0.838	(0.612 - 0.924)
30 to 34	0.740	(0.682 - 0.798)	0.816	(0.593 - 0.914)	30	to 34	0.723	(0.683 - 0.762)	0.802	(0.593 - 0.920)
35 to 39	0.693	(0.631 - 0.755)	0.799	(0.453 - 0.929)	35	to 39	0.693	(0.654 - 0.732)	0.793	(0.558 - 0.901)

40 to 44	0.693	(0.630 - 0.756)	0.777	(0.482 - 0.921)	40 to 44	0.602	(0.544 - 0.660)	0.687	(0.357 - 0.898)
45 to 49	0.610	(0.543 - 0.677)	0.679	(0.357 - 0.903)	45 to 49	0.598	(0.549 - 0.646)	0.686	(0.354 - 0.845)
50 to 54	0.580	(0.523 - 0.638)	0.681	(0.267 - 0.894)	50 to 54	0.589	(0.539 - 0.640)	0.687	(0.296 - 0.892)
55 to 59	0.597	(0.544 - 0.650)	0.686	(0.319 - 0.898)	55 to 59	0.606	(0.568 - 0.645)	0.688	(0.388 - 0.891)
60 to 64	0.570	(0.510 - 0.631)	0.626	(0.267 - 0.880)	60 to 64	0.604	(0.569 - 0.638)	0.686	(0.344 - 0.864)
65 to 69	0.647	(0.598 - 0.696)	0.716	(0.560 - 0.893)	65 to 69	0.656	(0.619 - 0.692)	0.715	(0.485 - 0.897)
70 to 74	0.574	(0.490 - 0.657)	0.619	(0.230 - 0.894)	70 to 74	0.638	(0.592 - 0.684)	0.720	(0.419 - 0.899)
75 to 79	0.520	(0.346 - 0.694)	0.612	(0.168 - 0.885)	75 to 79	0.552	(0.497 - 0.608)	0.563	(0.362 - 0.783)
80 to 84	0.498	(0.397 - 0.598)	0.582	(0.256 - 0.745)	80 to 84	0.419	(0.333 - 0.505)	0.363	(0.113 - 0.829)
85 and over					85 and				
	0.447	(0.336 - 0.558)	0.407	(0.174 - 0.804)	over	0.411	(0.335 - 0.486)	0.404	(0.082 - 0.661)
All ages	0.643	(0.624 - 0.662)	0.736	(0.409 - 0.905)	All ages	0.643	(0.630 - 0.656)	0.722	(0.429 - 0.897)
					•	•			•

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for mood disorder, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	2,194,118
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.675	(0.644 - 0.706)	0.713	(0.504 - 0.869)
20 to 24	0.721	(0.688 - 0.753)	0.794	(0.608 - 0.921)
25 to 29	0.732	(0.702 - 0.761)	0.801	(0.617 - 0.923)
30 to 34	0.730	(0.696 - 0.764)	0.821	(0.595 - 0.922)
35 to 39	0.693	(0.660 - 0.726)	0.793	(0.499 - 0.923)
40 to 44	0.640	(0.596 - 0.684)	0.741	(0.373 - 0.903)
45 to 49	0.604	(0.562 - 0.646)	0.683	(0.357 - 0.893)
50 to 54	0.586	(0.547 - 0.625)	0.686	(0.273 - 0.893)

55 to 59	0.603	(0.571 - 0.635)	0.687	(0.346 - 0.894)
60 to 64	0.590	(0.557 - 0.622)	0.666	(0.324 - 0.865)
65 to 69	0.652	(0.624 - 0.680)	0.715	(0.505 - 0.897)
70 to 74	0.618	(0.577 - 0.658)	0.688	(0.355 - 0.898)
75 to 79	0.541	(0.467 - 0.615)	0.577	(0.291 - 0.838)
80 to 84	0.444	(0.379 - 0.509)	0.442	(0.130 - 0.786)
85 and over	0.423	(0.362 - 0.485)	0.404	(0.120 - 0.749)
All ages	0.643	(0.632 - 0.654)	0.734	(0.410 - 0.905)

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Supplementary table 15. Age and sex-stratified utility norms for scoliosis, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	291,647	Female			Weighted	662,406
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.778	(0.639 - 0.918)	0.889	(0.753 - 0.975)	12 to 19	0.820	(0.761 - 0.880)	0.924	(0.748 - 0.977)
20 to 24	0.864	(0.815 - 0.913)	0.898	(0.831 - 0.944)	20 to 24	0.859	(0.809 - 0.909)	0.932	(0.803 - 0.977)
25 to 29	0.757	(0.658 - 0.856)	0.823	(0.665 - 0.923)	25 to 29	0.854	(0.804 - 0.903)	0.929	(0.792 - 0.976)
30 to 34	0.720	(0.611 - 0.829)	0.853	(0.391 - 0.917)	30 to 34	0.827	(0.779 - 0.874)	0.895	(0.795 - 0.974)
35 to 39	0.786	(0.727 - 0.845)	0.857	(0.631 - 0.924)	35 to 39	0.857	(0.820 - 0.894)	0.920	(0.835 - 0.959)

40 to 44 0.870 (0.812 - 0.929) 0.950 (0.884 - 0.977) 40 to 44 0.805 (0.754 - 0.856) 0.867 (0.672 - 0.961) 45 to 49 0.812 (0.737 - 0.887) 0.877 (0.737 - 0.960) 45 to 49 0.714 (0.625 - 0.803) 0.745 (0.532 - 0.936) 50 to 54 0.727 (0.637 - 0.817) 0.859 (0.647 - 0.935) 50 to 54 0.738 (0.683 - 0.793) 0.820 (0.619 - 0.948) 55 to 59 0.820 (0.750 - 0.891) 0.909 (0.778 - 0.958) 55 to 59 0.764 (0.715 - 0.812) 0.862 (0.639 - 0.955) 60 to 64 0.801 (0.691 - 0.910) 0.939 (0.737 - 0.980) 60 to 64 0.739 (0.696 - 0.783) 0.819 (0.609 - 0.948) 65 to 69 0.736 (0.634 - 0.817) 0.802 (0.662 - 0.919) 70 to 74 0.662 (0.593 - 0.732) 0.812 (0.373 - 0.946) 75 to 79 0.727 (0.635 - 0.819) 0.783 (0.578 - 0.873) 75 to 79 0.754 (0.703 - 0.806) 0.845 (0.625 - 0.947) 80 to 84 0.611 (0.423 - 0.781) 0.722										
50 to 54 0.727 (0.637 - 0.817) 0.859 (0.647 - 0.935) 50 to 54 0.738 (0.683 - 0.793) 0.820 (0.619 - 0.948) 55 to 59 0.820 (0.750 - 0.891) 0.909 (0.778 - 0.958) 55 to 59 0.764 (0.715 - 0.812) 0.862 (0.639 - 0.955) 60 to 64 0.801 (0.691 - 0.910) 0.939 (0.737 - 0.980) 60 to 64 0.739 (0.696 - 0.783) 0.819 (0.609 - 0.948) 65 to 69 0.736 (0.637 - 0.835) 0.893 (0.613 - 0.927) 65 to 69 0.710 (0.665 - 0.754) 0.796 (0.578 - 0.895) 70 to 74 0.726 (0.634 - 0.817) 0.802 (0.662 - 0.919) 70 to 74 0.662 (0.593 - 0.732) 0.812 (0.373 - 0.946) 75 to 79 0.727 (0.635 - 0.819) 0.783 (0.578 - 0.873) 75 to 79 0.754 (0.703 - 0.806) 0.845 (0.625 - 0.947) 80 to 84 0.611 (0.423 - 0.799) 0.744 (0.362 - 0.832) 80 to 84 0.652 (0.552 - 0.752) 0.738 (0.449 - 0	40 to 44	0.870	(0.812 - 0.929)	0.950	(0.884 - 0.977)	40 to 44	0.805	(0.754 - 0.856)	0.867	(0.672 - 0.961)
55 to 59 0.820 (0.750 - 0.891) 0.909 (0.778 - 0.958) 55 to 59 0.764 (0.715 - 0.812) 0.862 (0.639 - 0.955) 60 to 64 0.801 (0.691 - 0.910) 0.939 (0.737 - 0.980) 60 to 64 0.739 (0.696 - 0.783) 0.819 (0.609 - 0.948) 65 to 69 0.736 (0.637 - 0.835) 0.893 (0.613 - 0.927) 65 to 69 0.710 (0.665 - 0.754) 0.796 (0.578 - 0.895) 70 to 74 0.726 (0.634 - 0.817) 0.802 (0.662 - 0.919) 70 to 74 0.662 (0.593 - 0.732) 0.812 (0.373 - 0.946) 75 to 79 0.727 (0.635 - 0.819) 0.783 (0.578 - 0.873) 75 to 79 0.754 (0.703 - 0.806) 0.845 (0.625 - 0.947) 80 to 84 0.611 (0.423 - 0.799) 0.744 (0.362 - 0.832) 80 to 84 0.652 (0.552 - 0.752) 0.738 (0.449 - 0.930) 85 and over 0.716 (0.651 - 0.781) 0.722 (0.649 - 0.727) over 0.484 (0.408 - 0.559) 0.437 (0.235 - 0.	45 to 49	0.812	(0.737 - 0.887)	0.877	(0.737 - 0.960)	45 to 49	0.714	(0.625 - 0.803)	0.745	(0.532 - 0.936)
60 to 64	50 to 54	0.727	(0.637 - 0.817)	0.859	(0.647 - 0.935)	50 to 54	0.738	(0.683 - 0.793)	0.820	(0.619 - 0.948)
65 to 69 0.736 (0.637 - 0.835) 0.893 (0.613 - 0.927) 65 to 69 0.710 (0.665 - 0.754) 0.796 (0.578 - 0.895) 70 to 74 0.726 (0.634 - 0.817) 0.802 (0.662 - 0.919) 70 to 74 0.662 (0.593 - 0.732) 0.812 (0.373 - 0.946) 75 to 79 0.727 (0.635 - 0.819) 0.783 (0.578 - 0.873) 75 to 79 0.754 (0.703 - 0.806) 0.845 (0.625 - 0.947) 80 to 84 0.611 (0.423 - 0.799) 0.744 (0.362 - 0.832) 80 to 84 0.652 (0.552 - 0.752) 0.738 (0.449 - 0.930) 85 and over 0.716 (0.651 - 0.781) 0.722 (0.649 - 0.727) over 0.484 (0.408 - 0.559) 0.437 (0.235 - 0.776)	55 to 59	0.820	(0.750 - 0.891)	0.909	(0.778 - 0.958)	55 to 59	0.764	(0.715 - 0.812)	0.862	(0.639 - 0.955)
70 to 74 0.726 (0.634 - 0.817) 0.802 (0.662 - 0.919) 70 to 74 0.662 (0.593 - 0.732) 0.812 (0.373 - 0.946) 75 to 79 0.727 (0.635 - 0.819) 0.783 (0.578 - 0.873) 75 to 79 0.754 (0.703 - 0.806) 0.845 (0.625 - 0.947) 80 to 84 0.611 (0.423 - 0.799) 0.744 (0.362 - 0.832) 80 to 84 0.652 (0.552 - 0.752) 0.738 (0.449 - 0.930) 85 and over 0.716 (0.651 - 0.781) 0.722 (0.649 - 0.727) over 0.484 (0.408 - 0.559) 0.437 (0.235 - 0.776)	60 to 64	0.801	(0.691 - 0.910)	0.939	(0.737 - 0.980)	60 to 64	0.739	(0.696 - 0.783)	0.819	(0.609 - 0.948)
75 to 79	65 to 69	0.736	(0.637 - 0.835)	0.893	(0.613 - 0.927)	65 to 69	0.710	(0.665 - 0.754)	0.796	(0.578 - 0.895)
80 to 84	70 to 74	0.726	(0.634 - 0.817)	0.802	(0.662 - 0.919)	70 to 74	0.662	(0.593 - 0.732)	0.812	(0.373 - 0.946)
85 and over 0.716 (0.651 - 0.781) 0.722 (0.649 - 0.727) over 0.484 (0.408 - 0.559) 0.437 (0.235 - 0.776)	75 to 79	0.727	(0.635 - 0.819)	0.783	(0.578 - 0.873)	75 to 79	0.754	(0.703 - 0.806)	0.845	(0.625 - 0.947)
0.716 (0.651 - 0.781) 0.722 (0.649 - 0.727) over 0.484 (0.408 - 0.559) 0.437 (0.235 - 0.776)	80 to 84	0.611	(0.423 - 0.799)	0.744	(0.362 - 0.832)	80 to 84	0.652	(0.552 - 0.752)	0.738	(0.449 - 0.930)
	85 and over					85 and				
All ages 0.782 (0.755 - 0.809) 0.893 (0.684 - 0.957) All ages 0.775 (0.759 - 0.791) 0.875 (0.661 - 0.956)		0.716	(0.651 - 0.781)	0.722	(0.649 - 0.727)	over	0.484	(0.408 - 0.559)	0.437	(0.235 - 0.776)
All ages 0.782 (0.755 - 0.809) 0.893 (0.684 - 0.957) All ages 0.775 (0.759 - 0.791) 0.875 (0.661 - 0.956)										
	All ages	0.782	(0.755 - 0.809)	0.893	(0.684 - 0.957)	All ages	0.775	(0.759 - 0.791)	0.875	(0.661 - 0.956)

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Age and sex-stratified utility norms for scoliosis, household population aged 12 and older, Canada, 2013-2014 (continued)

Total population			Weighted	954,053
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.808	(0.748 - 0.867)	0.922	(0.764 - 0.977)
20 to 24	0.860	(0.823 - 0.898)	0.923	(0.822 - 0.975)
25 to 29	0.820	(0.771 - 0.870)	0.922	(0.744 - 0.970)
30 to 34	0.784	(0.729 - 0.839)	0.871	(0.677 - 0.954)
35 to 39	0.834	(0.802 - 0.866)	0.902	(0.740 - 0.949)
40 to 44	0.824	(0.784 - 0.865)	0.906	(0.687 - 0.968)
45 to 49	0.741	(0.673 - 0.809)	0.815	(0.542 - 0.947)

50 to 54	0.735	(0.687 - 0.784)	0.837	(0.620 - 0.948)
55 to 59	0.781	(0.740 - 0.822)	0.891	(0.661 - 0.956)
60 to 64	0.760	(0.713 - 0.807)	0.854	(0.628 - 0.961)
65 to 69	0.716	(0.675 - 0.758)	0.825	(0.592 - 0.904)
70 to 74	0.676	(0.619 - 0.733)	0.817	(0.462 - 0.943)
75 to 79	0.746	(0.704 - 0.787)	0.832	(0.616 - 0.938)
80 to 84	0.640	(0.549 - 0.731)	0.748	(0.380 - 0.908)
85 and over	0.537	(0.469 - 0.605)	0.561	(0.368 - 0.727)
All ages	0.777	(0.764 - 0.791)	0.904	(0.663 - 0.957)

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Supplementary table 16. Age and sex-stratified utility norms for stomach or intestinal ulcers, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	333,035	Female			Weighted	394,205
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.675	(0.568 - 0.782)	0.717	(0.462 - 0.878)	12 to 19	0.662	(0.468 - 0.856)	0.780	(0.516 - 0.898)
20 to 24	0.732	(0.618 - 0.845)	0.864	(0.662 - 0.886)	20 to 24	0.733	(0.632 - 0.835)	0.838	(0.470 - 0.924)
25 to 29	0.814	(0.731 - 0.897)	0.865	(0.830 - 0.935)	25 to 29	0.809	(0.722 - 0.896)	0.919	(0.743 - 0.956)
30 to 34	0.800	(0.657 - 0.943)	0.957	(0.633 - 0.985)	30 to 34	0.712	(0.560 - 0.864)	0.841	(0.598 - 0.941)
35 to 39	0.759	(0.688 - 0.831)	0.803	(0.660 - 0.925)	35 to 39	0.790	(0.727 - 0.852)	0.841	(0.690 - 0.940)

0.823	(0.740 - 0.907)	0.933	(0.835 - 0.972)	40 to 44	0.671	(0.534 - 0.809)	0.775	(0.267 - 0.933)
0.713	(0.578 - 0.848)	0.835	(0.407 - 0.906)	45 to 49	0.711	(0.597 - 0.826)	0.800	(0.384 - 0.959)
			(-0.054 -	50 to 54				
0.532	(0.314 - 0.751)	0.746	0.939)		0.723	(0.636 - 0.810)	0.879	(0.613 - 0.947)
0.607	(0.497 - 0.717)	0.662	(0.319 - 0.909)	55 to 59	0.653	(0.578 - 0.728)	0.726	(0.440 - 0.908)
0.705	(0.632 - 0.779)	0.840	(0.471 - 0.936)	60 to 64	0.640	(0.573 - 0.706)	0.777	(0.365 - 0.885)
0.682	(0.601 - 0.763)	0.785	(0.567 - 0.903)	65 to 69	0.684	(0.622 - 0.746)	0.777	(0.568 - 0.899)
0.661	(0.528 - 0.794)	0.805	(0.458 - 0.924)	70 to 74	0.650	(0.569 - 0.732)	0.744	(0.403 - 0.926)
0.609	(0.500 - 0.718)	0.669	(0.428 - 0.884)	75 to 79	0.638	(0.530 - 0.746)	0.783	(0.366 - 0.889)
0.653	(0.551 - 0.755)	0.687	(0.503 - 0.866)	80 to 84	0.616	(0.523 - 0.708)	0.566	(0.487 - 0.888)
				85 and				
0.604	(0.490 - 0.718)	0.713	(0.310 - 0.844)	over	0.485	(0.394 - 0.575)	0.517	(0.186 - 0.680)
0.694	(0.650 - 0.738)	0.841	(0.493 - 0.943)	All ages	0.692	(0.664 - 0.720)	0.800	(0.505 - 0.927)
	0.713 0.532 0.607 0.705 0.682 0.661 0.609 0.653	0.713 (0.578 - 0.848) 0.532 (0.314 - 0.751) 0.607 (0.497 - 0.717) 0.705 (0.632 - 0.779) 0.682 (0.601 - 0.763) 0.661 (0.528 - 0.794) 0.609 (0.500 - 0.718) 0.653 (0.551 - 0.755) 0.604 (0.490 - 0.718)	0.713 (0.578 - 0.848) 0.835 0.532 (0.314 - 0.751) 0.746 0.607 (0.497 - 0.717) 0.662 0.705 (0.632 - 0.779) 0.840 0.682 (0.601 - 0.763) 0.785 0.661 (0.528 - 0.794) 0.805 0.609 (0.500 - 0.718) 0.669 0.653 (0.551 - 0.755) 0.687 0.604 (0.490 - 0.718) 0.713	0.713 (0.578 - 0.848) 0.835 (0.407 - 0.906) 0.532 (0.314 - 0.751) 0.746 0.939) 0.607 (0.497 - 0.717) 0.662 (0.319 - 0.909) 0.705 (0.632 - 0.779) 0.840 (0.471 - 0.936) 0.682 (0.601 - 0.763) 0.785 (0.567 - 0.903) 0.661 (0.528 - 0.794) 0.805 (0.458 - 0.924) 0.609 (0.500 - 0.718) 0.669 (0.428 - 0.884) 0.653 (0.551 - 0.755) 0.687 (0.503 - 0.866) 0.604 (0.490 - 0.718) 0.713 (0.310 - 0.844)	0.713 (0.578 - 0.848) 0.835 (0.407 - 0.906) 45 to 49 0.532 (0.314 - 0.751) 0.746 0.939) 55 to 54 0.607 (0.497 - 0.717) 0.662 (0.319 - 0.909) 55 to 59 0.705 (0.632 - 0.779) 0.840 (0.471 - 0.936) 60 to 64 0.682 (0.601 - 0.763) 0.785 (0.567 - 0.903) 65 to 69 0.661 (0.528 - 0.794) 0.805 (0.458 - 0.924) 70 to 74 0.609 (0.500 - 0.718) 0.669 (0.428 - 0.884) 75 to 79 0.653 (0.551 - 0.755) 0.687 (0.503 - 0.866) 80 to 84 0.604 (0.490 - 0.718) 0.713 (0.310 - 0.844) over	0.713 (0.578 - 0.848) 0.835 (0.407 - 0.906) 45 to 49 0.711 0.532 (0.314 - 0.751) 0.746 0.939) 0.723 0.607 (0.497 - 0.717) 0.662 (0.319 - 0.909) 55 to 59 0.653 0.705 (0.632 - 0.779) 0.840 (0.471 - 0.936) 60 to 64 0.640 0.682 (0.601 - 0.763) 0.785 (0.567 - 0.903) 65 to 69 0.684 0.661 (0.528 - 0.794) 0.805 (0.458 - 0.924) 70 to 74 0.650 0.609 (0.500 - 0.718) 0.669 (0.428 - 0.884) 75 to 79 0.638 0.653 (0.551 - 0.755) 0.687 (0.503 - 0.866) 80 to 84 0.616 0.604 (0.490 - 0.718) 0.713 (0.310 - 0.844) over 0.485	0.713 (0.578 - 0.848) 0.835 (0.407 - 0.906) 45 to 49 0.711 (0.597 - 0.826) 0.532 (0.314 - 0.751) 0.746 0.939) 0.723 (0.636 - 0.810) 0.607 (0.497 - 0.717) 0.662 (0.319 - 0.909) 55 to 59 0.653 (0.578 - 0.728) 0.705 (0.632 - 0.779) 0.840 (0.471 - 0.936) 60 to 64 0.640 (0.573 - 0.706) 0.682 (0.601 - 0.763) 0.785 (0.567 - 0.903) 65 to 69 0.684 (0.622 - 0.746) 0.661 (0.528 - 0.794) 0.805 (0.458 - 0.924) 70 to 74 0.650 (0.569 - 0.732) 0.609 (0.500 - 0.718) 0.669 (0.428 - 0.884) 75 to 79 0.638 (0.530 - 0.746) 0.653 (0.551 - 0.755) 0.687 (0.503 - 0.866) 80 to 84 0.616 (0.523 - 0.708) 0.604 (0.490 - 0.718) 0.713 (0.310 - 0.844) over 0.485 (0.394 - 0.575)	0.713 (0.578 - 0.848) 0.835 (0.407 - 0.906) 45 to 49 0.711 (0.597 - 0.826) 0.800 0.532 (0.314 - 0.751) 0.746 0.939) 0.723 (0.636 - 0.810) 0.879 0.607 (0.497 - 0.717) 0.662 (0.319 - 0.909) 55 to 59 0.653 (0.578 - 0.728) 0.726 0.705 (0.632 - 0.779) 0.840 (0.471 - 0.936) 60 to 64 0.640 (0.573 - 0.706) 0.777 0.682 (0.601 - 0.763) 0.785 (0.567 - 0.903) 65 to 69 0.684 (0.622 - 0.746) 0.777 0.661 (0.528 - 0.794) 0.805 (0.458 - 0.924) 70 to 74 0.650 (0.569 - 0.732) 0.744 0.609 (0.500 - 0.718) 0.669 (0.428 - 0.884) 75 to 79 0.638 (0.530 - 0.746) 0.783 0.653 (0.551 - 0.755) 0.687 (0.503 - 0.866) 80 to 84 0.616 (0.523 - 0.708) 0.566 0.604 (0.490 - 0.718) 0.713 (0.310 - 0.844) over 0.485 (0.394 - 0.575) 0.517

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Age and sex-stratified utility norms for stomach or intestinal ulcers, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	727,240
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.667	(0.541 - 0.793)	0.752	(0.518 - 0.896)
20 to 24	0.733	(0.662 - 0.803)	0.843	(0.615 - 0.903)
25 to 29	0.811	(0.750 - 0.872)	0.899	(0.795 - 0.941)
30 to 34	0.760	(0.649 - 0.870)	0.907	(0.615 - 0.978)
35 to 39	0.773	(0.728 - 0.818)	0.839	(0.674 - 0.937)
40 to 44	0.750	(0.660 - 0.840)	0.865	(0.576 - 0.958)
45 to 49	0.712	(0.624 - 0.800)	0.834	(0.406 - 0.929)

50 to 54	0.625	(0.499 - 0.751)	0.846	(0.301 - 0.949)
55 to 59	0.631	(0.567 - 0.695)	0.664	(0.328 - 0.908)
60 to 64	0.666	(0.616 - 0.716)	0.777	(0.443 - 0.913)
65 to 69	0.683	(0.633 - 0.733)	0.777	(0.568 - 0.903)
70 to 74	0.654	(0.584 - 0.725)	0.780	(0.411 - 0.925)
75 to 79	0.625	(0.538 - 0.711)	0.769	(0.428 - 0.890)
80 to 84	0.626	(0.553 - 0.698)	0.636	(0.489 - 0.885)
85 and over	0.523	(0.449 - 0.597)	0.536	(0.231 - 0.796)
All ages	0.693	(0.668 - 0.718)	0.831	(0.504 - 0.936)

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Supplementary table 17. Age and sex-stratified utility norms for urinary incontinence, household population aged 12 and older,

Canada, 2013-2014

Male			Weighted	299,376	Female			Weighted	653,554
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19*					12 to 19*				
20 to 24*					20 to 24*				
25 to 29	0.511	(0.297 - 0.726)	0.431	(0.110 - 0.842)	25 to 29	0.719	(0.561 - 0.877)	0.897	(0.367 - 0.931)
30 to 34	0.636	(0.359 - 0.913)	0.769	(0.238 - 0.872)	30 to 34	0.583	(0.329 - 0.838)	0.769	(0.254 - 0.942)
35 to 39	0.691	(0.492 - 0.890)	0.681	(0.436 - 0.892)	35 to 39	0.612	(0.503 - 0.721)	0.709	(0.321 - 0.875)

40 to 44	0.494	(0.295 - 0.693)	0.535	(0.171 - 0.788)	40 to 44	0.629	(0.500 - 0.757)	0.757	(0.252 - 0.929)
45 to 49	0.622	(0.393 - 0.852)	0.707	(0.338 - 0.907)	45 to 49	0.678	(0.604 - 0.752)	0.709	(0.543 - 0.901)
50 to 54		(-0.131 -	<u> </u>	(-0.090 -	50 to 54				
	0.275	0.680)	-0.058	0.776)		0.613	(0.545 - 0.681)	0.716	(0.325 - 0.881)
55 to 59	0.529	(0.428 - 0.629)	0.605	(0.218 - 0.881)	55 to 59	0.646	(0.602 - 0.690)	0.722	(0.477 - 0.904)
60 to 64	0.670	(0.594 - 0.746)	0.795	(0.452 - 0.922)	60 to 64	0.644	(0.598 - 0.691)	0.777	(0.441 - 0.919)
65 to 69	0.669	(0.611 - 0.726)	0.802	(0.480 - 0.927)	65 to 69	0.687	(0.655 - 0.720)	0.766	(0.563 - 0.905)
70 to 74	0.735	(0.686 - 0.783)	0.842	(0.589 - 0.945)	70 to 74	0.683	(0.643 - 0.723)	0.818	(0.473 - 0.912)
75 to 79	0.632	(0.570 - 0.695)	0.727	(0.403 - 0.882)	75 to 79	0.635	(0.592 - 0.679)	0.726	(0.430 - 0.898)
80 to 84	0.569	(0.496 - 0.642)	0.623	(0.286 - 0.904)	80 to 84	0.584	(0.530 - 0.638)	0.696	(0.316 - 0.904)
85 and over			<u> </u>		85 and	 			
	0.588	(0.517 - 0.658)	0.618	(0.380 - 0.841)	over	0.464	(0.411 - 0.518)	0.468	(0.179 - 0.748)
All ages	0.608	(0.567 - 0.649)	0.726	(0.330 - 0.905)	All ages	0.626	(0.608 - 0.645)	0.718	(0.367 - 0.905)
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*Not asked to respondents below 25 years of age

Age and sex-stratified utility norms for urinary incontinence, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	952,930
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19*				
20 to 24*				
25 to 29	0.666	(0.526 - 0.805)	0.881	(0.327 - 0.931)
30 to 34	0.586	(0.349 - 0.823)	0.770	(0.255 - 0.940)
35 to 39	0.629	(0.534 - 0.725)	0.706	(0.341 - 0.920)
40 to 44	0.610	(0.500 - 0.720)	0.690	(0.233 - 0.922)
45 to 49	0.673	(0.602 - 0.744)	0.710	(0.537 - 0.902)
50 to 54	0.511	(0.373 - 0.649)	0.604	(0.178 - 0.853)

55 to 59	0.618	(0.575 - 0.660)	0.704	(0.401 - 0.904)
60 to 64	0.654	(0.614 - 0.694)	0.778	(0.443 - 0.920)
65 to 69	0.680	(0.651 - 0.709)	0.774	(0.554 - 0.909)
70 to 74	0.702	(0.673 - 0.732)	0.831	(0.521 - 0.924)
75 to 79	0.634	(0.598 - 0.670)	0.727	(0.422 - 0.894)
80 to 84	0.578	(0.535 - 0.620)	0.672	(0.302 - 0.904)
85 and over	0.497	(0.453 - 0.541)	0.543	(0.222 - 0.782)
All ages	0.621	(0.603 - 0.639)	0.719	(0.357 - 0.905)

2013-2014 Canadian Community Health Survey

^{*}Not asked to respondents below 25 years of age

Supplementary table 18. Age and sex-stratified utility norms for individuals reporting no chronic condition, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	7,177,189	Female			Weighted	6,207,984
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.908	(0.902 - 0.913)	0.929	(0.866 - 0.983)	12 to 19	0.908	(0.901 - 0.915)	0.946	(0.878 - 0.982)
20 to 24	0.912	(0.903 - 0.922)	0.946	(0.891 - 0.983)	20 to 24	0.927	(0.919 - 0.935)	0.956	(0.903 - 0.982)
25 to 29	0.935	(0.928 - 0.943)	0.965	(0.920 - 0.985)	25 to 29	0.941	(0.934 - 0.948)	0.961	(0.921 - 0.983)
30 to 34	0.938	(0.932 - 0.945)	0.959	(0.920 - 0.985)	30 to 34	0.932	(0.923 - 0.942)	0.962	(0.920 - 0.984)
35 to 39	0.944	(0.937 - 0.950)	0.971	(0.922 - 0.986)	35 to 39	0.939	(0.931 - 0.947)	0.963	(0.919 - 0.985)

40 to 44	0.948	(0.941 - 0.955)	0.968	(0.925 - 0.985)	40 to 44	0.943	(0.936 - 0.950)	0.961	(0.921 - 0.982)
45 to 49	0.928	(0.915 - 0.940)	0.954	(0.901 - 0.978)	45 to 49	0.934	(0.919 - 0.948)	0.957	(0.901 - 0.976)
50 to 54	0.920	(0.908 - 0.932)	0.950	(0.897 - 0.971)	50 to 54	0.929	(0.92 - 0.939)	0.954	(0.905 - 0.969)
55 to 59	0.930	(0.921 - 0.938)	0.954	(0.904 - 0.969)	55 to 59	0.931	(0.922 - 0.940)	0.954	(0.905 - 0.968)
60 to 64	0.918	(0.908 - 0.928)	0.951	(0.904 - 0.968)	60 to 64	0.933	(0.925 - 0.940)	0.953	(0.900 - 0.966)
65 to 69	0.930	(0.921 - 0.939)	0.952	(0.900 - 0.969)	65 to 69	0.936	(0.928 - 0.943)	0.954	(0.901 - 0.968)
70 to 74	0.926	(0.911 - 0.940)	0.952	(0.905 - 0.969)	70 to 74	0.943	(0.935 - 0.952)	0.956	(0.915 - 0.969)
75 to 79	0.911	(0.892 - 0.931)	0.949	(0.894 - 0.968)	75 to 79	0.924	(0.911 - 0.938)	0.938	(0.904 - 0.965)
80 to 84	0.877	(0.853 - 0.901)	0.919	(0.849 - 0.960)	80 to 84	0.895	(0.864 - 0.926)	0.933	(0.904 - 0.963)
85 and over					85 and				
	0.810	(0.766 - 0.853)	0.849	(0.709 - 0.949)	over	0.821	(0.765 - 0.878)	0.905	(0.687 - 0.974)
All ages	0.926	(0.924 - 0.929)	0.954	(0.905 - 0.982)	All ages	0.929	(0.927 - 0.932)	0.956	(0.905 - 0.980)
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Age and sex-stratified utility norms for individuals reporting no chronic condition, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	13,385,173
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.908	(0.903 - 0.912)	0.930	(0.866 - 0.983)
20 to 24	0.919	(0.912 - 0.925)	0.952	(0.898 - 0.982)
25 to 29	0.938	(0.933 - 0.943)	0.963	(0.920 - 0.985)
30 to 34	0.936	(0.930 - 0.941)	0.961	(0.920 - 0.985)
35 to 39	0.941	(0.936 - 0.946)	0.967	(0.921 - 0.985)

40 to 44	0.946	(0.941 - 0.950)	0.964	(0.923 - 0.984)
45 to 49	0.930	(0.921 - 0.940)	0.955	(0.901 - 0.977)
50 to 54	0.925	(0.917 - 0.932)	0.953	(0.905 - 0.969)
55 to 59	0.930	(0.924 - 0.936)	0.954	(0.905 - 0.969)
60 to 64	0.925	(0.919 - 0.932)	0.952	(0.905 - 0.967)
65 to 69	0.933	(0.927 - 0.938)	0.953	(0.901 - 0.968)
70 to 74	0.934	(0.925 - 0.942)	0.954	(0.905 - 0.969)
75 to 79	0.918	(0.906 - 0.929)	0.949	(0.904 - 0.968)
80 to 84	0.887	(0.868 - 0.906)	0.926	(0.865 - 0.962)
85 and over	0.816	(0.779 - 0.853)	0.904	(0.709 - 0.966)
All ages	0.928	(0.926 - 0.930)	0.955	(0.905 - 0.981)

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Supplementary table 19. Age and sex stratified utility norms for individuals reporting a single chronic condition, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	3,651,145	Female			Weighted	3,728,298
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.877	(0.866 - 0.888)	0.923	(0.826 - 0.975)	12 to 19	0.853	(0.837 - 0.870)	0.922	(0.773 - 0.976)
20 to 24	0.895	(0.881 - 0.909)	0.925	(0.865 - 0.977)	20 to 24	0.885	(0.870 - 0.900)	0.926	(0.841 - 0.975)
25 to 29	0.884	(0.865 - 0.903)	0.926	(0.865 - 0.978)	25 to 29	0.904	(0.892 - 0.916)	0.930	(0.890 - 0.979)
30 to 34	0.883	(0.862 - 0.905)	0.935	(0.827 - 0.983)	30 to 34	0.905	(0.892 - 0.918)	0.946	(0.866 - 0.98)
35 to 39	0.891	(0.876 - 0.906)	0.928	(0.864 - 0.979)	35 to 39	0.898	(0.884 - 0.912)	0.941	(0.871 - 0.979)

40 to 44	0.895	(0.880 - 0.910)	0.934	(0.865 - 0.977)	40 to 44	0.886	(0.868 - 0.904)	0.945	(0.859 - 0.978)
45 to 49	0.891	(0.875 - 0.907)	0.929	(0.860 - 0.969)	45 to 49	0.891	(0.876 - 0.906)	0.919	(0.890 - 0.963)
50 to 54	0.902	(0.891 - 0.913)	0.947	(0.883 - 0.967)	50 to 54	0.905	(0.894 - 0.915)	0.949	(0.904 - 0.966)
55 to 59	0.872	(0.854 - 0.891)	0.929	(0.841 - 0.963)	55 to 59	0.875	(0.862 - 0.887)	0.920	(0.838 - 0.960)
60 to 64	0.890	(0.877 - 0.904)	0.947	(0.863 - 0.967)	60 to 64	0.902	(0.892 - 0.913)	0.949	(0.894 - 0.965)
65 to 69	0.899	(0.887 - 0.910)	0.946	(0.904 - 0.965)	65 to 69	0.906	(0.896 - 0.916)	0.949	(0.892 - 0.964)
70 to 74	0.894	(0.879 - 0.909)	0.946	(0.879 - 0.965)	70 to 74	0.898	(0.886 - 0.910)	0.945	(0.904 - 0.962)
75 to 79	0.872	(0.848 - 0.897)	0.928	(0.831 - 0.967)	75 to 79	0.871	(0.852 - 0.891)	0.933	(0.840 - 0.962)
80 to 84	0.829	(0.783 - 0.876)	0.905	(0.765 - 0.962)	80 to 84	0.835	(0.797 - 0.873)	0.912	(0.782 - 0.962)
85 and over					85 and				
	0.763	(0.717 - 0.810)	0.838	(0.627 - 0.925)	over	0.777	(0.736 - 0.819)	0.897	(0.716 - 0.950)
All ages	0.886	(0.882 - 0.891)	0.928	(0.854 - 0.971)	All ages	0.888	(0.884 - 0.892)	0.930	(0.862 - 0.969)
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Age and sex-stratified utility norms for individuals reporting a single chronic condition, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popula	ation		Weighted	7,379,443
			Frequency	
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	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.865	(0.855 - 0.875)	0.922	(0.802 - 0.975)
20 to 24	0.890	(0.879 - 0.900)	0.925	(0.862 - 0.976)
25 to 29	0.895	(0.884 - 0.905)	0.928	(0.866 - 0.979)
30 to 34	0.894	(0.882 - 0.907)	0.939	(0.861 - 0.981)
35 to 39	0.895	(0.885 - 0.905)	0.930	(0.866 - 0.979)

40 to 44	0.891	(0.879 - 0.903)	0.936	(0.865 - 0.977)
45 to 49	0.891	(0.880 - 0.902)	0.925	(0.864 - 0.966)
50 to 54	0.903	(0.896 - 0.911)	0.948	(0.887 - 0.966)
55 to 59	0.873	(0.862 - 0.885)	0.925	(0.841 - 0.961)
60 to 64	0.896	(0.888 - 0.905)	0.948	(0.891 - 0.966)
65 to 69	0.902	(0.895 - 0.909)	0.948	(0.904 - 0.965)
70 to 74	0.896	(0.887 - 0.906)	0.945	(0.904 - 0.963)
75 to 79	0.872	(0.857 - 0.887)	0.929	(0.837 - 0.964)
80 to 84	0.832	(0.802 - 0.863)	0.905	(0.776 - 0.962)
85 and over	0.772	(0.742 - 0.802)	0.841	(0.685 - 0.947)
All ages	0.887	(0.884 - 0.890)	0.929	(0.858 - 0.970)

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Supplementary table 20. Age and sex-stratified utility norms for individuals reporting two chronic conditions, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	1,919,254	Female			Weighted	2,248,866
			Frequency					Frequency	
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
	Ivican		Iviourum	-		Ivican		Iviodian	-
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.758	(0.704 - 0.813)	0.865	(0.703 - 0.943)	12 to 19	0.788	(0.765 - 0.812)	0.840	(0.708 - 0.929)
20 to 24	0.795	(0.751 - 0.839)	0.866	(0.740 - 0.929)	20 to 24	0.819	(0.781 - 0.857)	0.900	(0.708 - 0.960)
25 to 29	0.808	(0.764 - 0.851)	0.879	(0.724 - 0.930)	25 to 29	0.846	(0.823 - 0.869)	0.904	(0.772 - 0.966)
30 to 34	0.799	(0.756 - 0.841)	0.892	(0.676 - 0.965)	30 to 34	0.841	(0.815 - 0.868)	0.902	(0.777 - 0.964)
35 to 39	0.791	(0.733 - 0.849)	0.866	(0.684 - 0.956)	35 to 39	0.843	(0.818 - 0.869)	0.900	(0.778 - 0.965)

40 to 44	0.828	(0.794 - 0.862)	0.897	(0.774 - 0.959)	40 to 44	0.851	(0.826 - 0.876)	0.919	(0.800 - 0.970)
45 to 49	0.785	(0.746 - 0.825)	0.893	(0.679 - 0.947)	45 to 49	0.814	(0.778 - 0.849)	0.893	(0.687 - 0.954)
50 to 54	0.837	(0.809 - 0.865)	0.905	(0.793 - 0.960)	50 to 54	0.817	(0.787 - 0.846)	0.897	(0.772 - 0.954)
55 to 59	0.837	(0.815 - 0.859)	0.903	(0.800 - 0.961)	55 to 59	0.843	(0.825 - 0.861)	0.905	(0.774 - 0.956)
60 to 64	0.834	(0.811 - 0.856)	0.900	(0.794 - 0.957)	60 to 64	0.854	(0.840 - 0.867)	0.905	(0.803 - 0.960)
65 to 69	0.855	(0.839 - 0.871)	0.905	(0.809 - 0.959)	65 to 69	0.847	(0.830 - 0.864)	0.905	(0.794 - 0.958)
70 to 74	0.854	(0.837 - 0.871)	0.905	(0.816 - 0.961)	70 to 74	0.855	(0.836 - 0.873)	0.906	(0.830 - 0.959)
75 to 79	0.853	(0.834 - 0.872)	0.905	(0.802 - 0.960)	75 to 79	0.822	(0.802 - 0.842)	0.904	(0.768 - 0.956)
80 to 84	0.795	(0.766 - 0.825)	0.841	(0.711 - 0.946)	80 to 84	0.771	(0.737 - 0.804)	0.842	(0.683 - 0.953)
85 and over					85 and				
	0.656	(0.591 - 0.720)	0.750	(0.455 - 0.905)	over	0.668	(0.618 - 0.718)	0.743	(0.494 - 0.900)
All ages	0.820	(0.811 - 0.829)	0.905	(0.755 - 0.957)	All ages	0.828	(0.822 - 0.835)	0.905	(0.763 - 0.958)

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Age and sex-stratified utility norms for individuals reporting two chronic conditions, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popula	ation		Weighted	4,168,120
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.777	(0.751 - 0.802)	0.859	(0.708 - 0.930)
20 to 24	0.811	(0.781 - 0.840)	0.894	(0.709 - 0.957)
25 to 29	0.831	(0.810 - 0.853)	0.900	(0.765 - 0.957)
30 to 34	0.823	(0.800 - 0.847)	0.900	(0.757 - 0.964)
35 to 39	0.820	(0.789 - 0.851)	0.896	(0.763 - 0.963)
40 to 44	0.840	(0.819 - 0.862)	0.903	(0.794 - 0.965)
45 to 49	0.800	(0.774 - 0.826)	0.893	(0.686 - 0.951)

50 to 54	0.827	(0.806 - 0.848)	0.905	(0.775 - 0.957)
55 to 59	0.840	(0.826 - 0.855)	0.905	(0.786 - 0.958)
60 to 64	0.843	(0.830 - 0.856)	0.905	(0.796 - 0.958)
65 to 69	0.851	(0.839 - 0.863)	0.905	(0.800 - 0.959)
70 to 74	0.854	(0.842 - 0.867)	0.905	(0.829 - 0.960)
75 to 79	0.837	(0.822 - 0.851)	0.905	(0.777 - 0.958)
80 to 84	0.782	(0.758 - 0.805)	0.842	(0.698 - 0.951)
85 and over	0.663	(0.622 - 0.704)	0.744	(0.473 - 0.905)
All ages	0.825	(0.819 - 0.830)	0.905	(0.758 - 0.957)

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Supplementary table 21. Age and sex-stratified utility norms for individuals reporting three chronic conditions, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	941,391	Female			Weighted	1,267,716
			Frequency					Frequency	
						1			
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
	, 	Confidence	'	range			Confidence	'	range
		Interval	1				Interval	1	
Age group					Age				
		1	!		group			!	
12 to 19	0.65	(0.591 - 0.708)	0.638	(0.444 - 0.822)	12 to 19	0.693	(0.638 - 0.748)	0.749	(0.579 - 0.896)
20 to 24	0.619	(0.505 - 0.732)	0.722	(0.371 - 0.895)	20 to 24	0.742	(0.683 - 0.802)	0.809	(0.668 - 0.913)
25 to 29	0.698	(0.602 - 0.794)	0.834	(0.497 - 0.931)	25 to 29	0.810	(0.766 - 0.854)	0.895	(0.767 - 0.949)
30 to 34	0.616	(0.509 - 0.723)	0.630	(0.379 - 0.905)	30 to 34	0.724	(0.627 - 0.821)	0.865	(0.566 - 0.938)
35 to 39	0.725	(0.666 - 0.785)	0.799	(0.517 - 0.922)	35 to 39	0.803	(0.764 - 0.842)	0.866	(0.701 - 0.935)

40 to 44	0.789	(0.744 - 0.835)	0.851	(0.715 - 0.929)	40 to 44	0.709	(0.654 - 0.765)	0.795	(0.543 - 0.926)
45 to 49	0.728	(0.666 - 0.789)	0.801	(0.621 - 0.944)	45 to 49	0.752	(0.697 - 0.808)	0.842	(0.608 - 0.917)
50 to 54	0.726	(0.670 - 0.782)	0.846	(0.611 - 0.917)	50 to 54	0.724	(0.676 - 0.772)	0.835	(0.612 - 0.922)
55 to 59	0.743	(0.696 - 0.791)	0.838	(0.601 - 0.951)	55 to 59	0.745	(0.72 - 0.77)	0.778	(0.632 - 0.910)
60 to 64	0.788	(0.757 - 0.819)	0.897	(0.684 - 0.955)	60 to 64	0.770	(0.747 - 0.792)	0.840	(0.658 - 0.946)
65 to 69	0.795	(0.770 - 0.821)	0.883	(0.664 - 0.953)	65 to 69	0.785	(0.766 - 0.804)	0.841	(0.660 - 0.946)
70 to 74	0.821	(0.794 - 0.848)	0.897	(0.736 - 0.953)	70 to 74	0.810	(0.789 - 0.83)	0.904	(0.719 - 0.952)
75 to 79	0.762	(0.728 - 0.795)	0.834	(0.633 - 0.924)	75 to 79	0.740	(0.708 - 0.772)	0.830	(0.612 - 0.926)
80 to 84	0.718	(0.679 - 0.758)	0.784	(0.563 - 0.927)	80 to 84	0.710	(0.666 - 0.753)	0.836	(0.581 - 0.909)
85 and over					85 and				
	0.705	(0.659 - 0.752)	0.767	(0.587 - 0.904)	over	0.599	(0.556 - 0.641)	0.671	(0.340 - 0.866)
All ages	0.749	(0.735 - 0.763)	0.841	(0.631 - 0.945)	All ages	0.749	(0.738 - 0.76)	0.837	(0.631 - 0.928)

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for individuals reporting three chronic conditions, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popul	ation		Weighted	2,209,106
			Frequency	
	24	050/ C 51	3.4.1	T
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.679	(0.635 - 0.723)	0.741	(0.565 - 0.877)
20 to 24	0.696	(0.637 - 0.754)	0.796	(0.552 - 0.907)
25 to 29	0.768	(0.725 - 0.811)	0.864	(0.665 - 0.938)
30 to 34	0.678	(0.607 - 0.750)	0.791	(0.381 - 0.925)
35 to 39	0.773	(0.741 - 0.805)	0.857	(0.631 - 0.930)

40 to 44	0.741	(0.702 - 0.781)	0.832	(0.612 - 0.927)
45 to 49	0.743	(0.702 - 0.784)	0.838	(0.611 - 0.929)
50 to 54	0.725	(0.688 - 0.762)	0.840	(0.612 - 0.919)
55 to 59	0.744	(0.718 - 0.770)	0.830	(0.612 - 0.945)
60 to 64	0.778	(0.760 - 0.797)	0.861	(0.661 - 0.951)
65 to 69	0.789	(0.774 - 0.805)	0.854	(0.663 - 0.949)
70 to 74	0.815	(0.798 - 0.832)	0.904	(0.721 - 0.952)
75 to 79	0.749	(0.725 - 0.774)	0.833	(0.617 - 0.925)
80 to 84	0.714	(0.683 - 0.744)	0.811	(0.572 - 0.919)
85 and over	0.631	(0.597 - 0.665)	0.692	(0.413 - 0.904)
All ages	0.749	(0.741 - 0.758)	0.840	(0.631 - 0.932)

2013-2014 Canadian Community Health Survey

Supplementary table 22. Age and sex-stratified utility norms for individuals reporting four chronic conditions, household population aged 12 and older, Canada, 2013-2014

Male	<u> </u>		Weighted	429,608	Female			Weighted	710,121
			Frequency					Frequency	
	 '					1			
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence	'	range			Confidence	'	range
		Interval	!				Interval	!	
Age group		<u> </u>			Age				
					group			!	
12 to 19	0.684	(0.565 - 0.804)	0.746	(0.406 - 0.873)	12 to 19	0.726	(0.661 - 0.791)	0.762	(0.600 - 0.887)
20 to 24	0.613	(0.501 - 0.725)	0.731	(0.345 - 0.837)	20 to 24	0.765	(0.711 - 0.819)	0.820	(0.686 - 0.905)
25 to 29	0.668	(0.552 - 0.785)	0.703	(0.617 - 0.863)	25 to 29	0.632	(0.569 - 0.695)	0.641	(0.388 - 0.885)
30 to 34	0.585	(0.307 - 0.864)	0.820	(0.24 - 0.895)	30 to 34	0.683	(0.620 - 0.746)	0.686	(0.605 - 0.859)
35 to 39	0.525	(0.390 - 0.661)	0.461	(0.345 - 0.771)	35 to 39	0.646	(0.583 - 0.708)	0.661	(0.395 - 0.865)

40 to 44	0.705	(0.605 - 0.804)	0.798	(0.501 - 0.927)	40 to 44	0.639	(0.542 - 0.736)	0.686	(0.474 - 0.861)
45 to 49	0.723	(0.625 - 0.820)	0.777	(0.557 - 0.948)	45 to 49	0.650	(0.575 - 0.725)	0.688	(0.411 - 0.850)
50 to 54	0.607	(0.536 - 0.678)	0.664	(0.312 - 0.887)	50 to 54	0.642	(0.570 - 0.714)	0.679	(0.387 - 0.894)
55 to 59	0.631	(0.564 - 0.697)	0.687	(0.390 - 0.901)	55 to 59	0.630	(0.578 - 0.681)	0.685	(0.396 - 0.897)
60 to 64	0.696	(0.641 - 0.752)	0.831	(0.533 - 0.906)	60 to 64	0.678	(0.629 - 0.728)	0.764	(0.489 - 0.900)
65 to 69	0.683	(0.634 - 0.733)	0.775	(0.505 - 0.906)	65 to 69	0.684	(0.646 - 0.722)	0.768	(0.516 - 0.905)
70 to 74	0.680	(0.626 - 0.734)	0.767	(0.517 - 0.905)	70 to 74	0.731	(0.701 - 0.761)	0.816	(0.612 - 0.908)
75 to 79	0.693	(0.655 - 0.731)	0.770	(0.530 - 0.906)	75 to 79	0.689	(0.644 - 0.733)	0.778	(0.525 - 0.905)
80 to 84	0.563	(0.477 - 0.649)	0.671	(0.259 - 0.859)	80 to 84	0.677	(0.638 - 0.716)	0.745	(0.513 - 0.902)
85 and over					85 and				
	0.575	(0.485 - 0.664)	0.624	(0.232 - 0.866)	over	0.458	(0.415 - 0.502)	0.431	(0.263 - 0.671)
All ages	0.657	(0.633 - 0.681)	0.743	(0.444 - 0.905)	All ages	0.661	(0.644 - 0.677)	0.719	(0.473 - 0.904)
				•					

2013-2014 Canadian Community Health Survey

Age and sex-stratified utility norms for individuals reporting four chronic conditions, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popula	ation		Weighted	1,139,729
			Frequency	
	1.5	0.744 G	2.5.11	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.715	(0.660 - 0.770)	0.757	(0.599 - 0.885)
20 to 24	0.721	(0.664 - 0.777)	0.777	(0.596 - 0.891)
25 to 29	0.640	(0.586 - 0.694)	0.662	(0.393 - 0.870)
30 to 34	0.642	(0.534 - 0.751)	0.688	(0.562 - 0.894)
35 to 39	0.620	(0.563 - 0.677)	0.645	(0.370 - 0.860)

40 to 44	0.662	(0.588 - 0.736)	0.737	(0.482 - 0.907)
45 to 49	0.678	(0.616 - 0.740)	0.743	(0.453 - 0.899)
50 to 54	0.632	(0.577 - 0.688)	0.687	(0.368 - 0.895)
55 to 59	0.630	(0.589 - 0.671)	0.686	(0.391 - 0.898)
60 to 64	0.686	(0.647 - 0.725)	0.778	(0.494 - 0.904)
65 to 69	0.684	(0.653 - 0.715)	0.772	(0.515 - 0.906)
70 to 74	0.707	(0.679 - 0.736)	0.783	(0.582 - 0.907)
75 to 79	0.691	(0.660 - 0.721)	0.778	(0.530 - 0.905)
80 to 84	0.630	(0.586 - 0.673)	0.726	(0.397 - 0.904)
85 and over	0.496	(0.450 - 0.542)	0.476	(0.252 - 0.770)
All ages	0.659	(0.645 - 0.673)	0.732	(0.452 - 0.905)

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Supplementary table 23. Age and sex-stratified utility norms for individuals reporting five or more chronic conditions, household population aged 12 and older, Canada, 2013-2014

Male			Weighted	368,390	Female			Weighted	687,409
			Frequency					Frequency	
	<u> </u>								
	Mean	95%	Median	Interquartile		Mean	95%	Median	Interquartile
		Confidence		range			Confidence		range
		Interval					Interval		
Age group					Age				
					group				
12 to 19	0.597	(0.464 - 0.729)	0.575	(0.471 - 0.596)	12 to 19	0.526	(0.228 - 0.823)	0.629	(0.478 - 0.793)
20 to 24				(-0.064 -	20 to 24				
	0.357	(0.068 - 0.647)	0.339	0.676)		0.530	(0.409 - 0.651)	0.499	(0.337 - 0.739)
25 to 29	0.453	(0.203 - 0.703)	0.330	(0.118 - 0.743)	25 to 29	0.538	(0.407 - 0.669)	0.610	(0.238 - 0.816)
30 to 34	0.644	(0.457 - 0.831)	0.595	(0.476 - 0.875)	30 to 34	0.481	(0.372 - 0.590)	0.371	(0.251 - 0.794)

35 to 39	0.373	(0.224 - 0.521)	0.305	(0.105 - 0.674)	35 to 39	0.507	(0.412 - 0.603)	0.601	(0.264 - 0.790)
40 to 44	0.358	(0.239 - 0.478)	0.212	(0.209 - 0.536)	40 to 44	0.454	(0.363 - 0.544)	0.372	(0.215 - 0.727)
45 to 49	0.442	(0.330 - 0.554)	0.355	(0.244 - 0.660)	45 to 49	0.476	(0.409 - 0.544)	0.419	(0.240 - 0.728)
50 to 54				(-0.058 -	50 to 54				
	0.307	(0.156 - 0.458)	0.241	0.557)		0.469	(0.416 - 0.522)	0.456	(0.177 - 0.719)
55 to 59	0.430	(0.361 - 0.499)	0.367	(0.166 - 0.721)	55 to 59	0.497	(0.455 - 0.540)	0.563	(0.247 - 0.755)
60 to 64	0.432	(0.373 - 0.491)	0.412	(0.177 - 0.658)	60 to 64	0.535	(0.493 - 0.576)	0.611	(0.269 - 0.778)
65 to 69	0.556	(0.502 - 0.609)	0.582	(0.293 - 0.839)	65 to 69	0.592	(0.559 - 0.625)	0.663	(0.331 - 0.841)
70 to 74	0.622	(0.559 - 0.685)	0.742	(0.345 - 0.885)	70 to 74	0.553	(0.512 - 0.594)	0.582	(0.273 - 0.835)
75 to 79	0.546	(0.456 - 0.635)	0.612	(0.238 - 0.858)	75 to 79	0.522	(0.474 - 0.569)	0.566	(0.288 - 0.759)
80 to 84	0.479	(0.412 - 0.546)	0.520	(0.242 - 0.753)	80 to 84	0.451	(0.401 - 0.501)	0.459	(0.170 - 0.727)
85 and over					85 and				
	0.474	(0.386 - 0.563)	0.593	(0.215 - 0.723)	over	0.361	(0.296 - 0.427)	0.331	(0.081 - 0.617)
All ages	0.464	(0.433 - 0.495)	0.480	(0.179 - 0.777)	All ages	0.503	(0.488 - 0.519)	0.561	(0.243 - 0.778)

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Age and sex-stratified utility norms for individuals reporting five or more chronic conditions, household population aged 12 and older, Canada, 2013-2014 (continued)

Total popula	ation		Weighted	1,055,799
			Frequency	
	Mean	95% Confidence	Median	Interquartile
		Interval		range
Age group				
12 to 19	0.533	(0.280 - 0.787)	0.628	(0.513 - 0.787)
20 to 24	0.477	(0.353 - 0.601)	0.476	(0.330 - 0.693)
25 to 29	0.508	(0.389 - 0.626)	0.531	(0.149 - 0.797)
30 to 34	0.502	(0.402 - 0.602)	0.516	(0.253 - 0.816)
35 to 39	0.475	(0.391 - 0.558)	0.493	(0.223 - 0.755)

40 to 44	0.429	(0.357 - 0.502)	0.346	(0.211 - 0.683)
45 to 49	0.463	(0.404 - 0.522)	0.399	(0.242 - 0.689)
50 to 54	0.403	(0.329 - 0.477)	0.367	(0.114 - 0.714)
55 to 59	0.475	(0.439 - 0.512)	0.526	(0.219 - 0.743)
60 to 64	0.495	(0.457 - 0.532)	0.519	(0.239 - 0.777)
65 to 69	0.579	(0.549 - 0.608)	0.630	(0.330 - 0.841)
70 to 74	0.579	(0.546 - 0.612)	0.633	(0.290 - 0.851)
75 to 79	0.531	(0.484 - 0.577)	0.595	(0.276 - 0.801)
80 to 84	0.461	(0.421 - 0.501)	0.477	(0.196 - 0.739)
85 and over	0.392	(0.338 - 0.446)	0.374	(0.109 - 0.668)
All ages	0.490	(0.475 - 0.505)	0.521	(0.229 - 0.777)

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