

# SENSITIVITY ANALYSES: Comparison of the 2 groups (chronic v. no chronic condition) across waves

Aim:

This document shows the sensitivity analysis in order to demonstrate that the independent sample across survey rounds are similar enough in terms of demographics so that they can be compared. Because we analyzed independent sub-samples of a representative survey across seven time points, we compared these samples on the main demographic characteristic within each group: chronic and no chronic health condition. Individuals with chronic health condition did not vary on any variables. Individuals with no chronic health conditions showed minor discrepancies in age, sex, and educational distributions between separate waves. The complete table output is available on the study repository. See below for the exact breakdowns and details.

**TABLE S1: Young adults with chronic health conditions across survey rounds/waves**

No significant differences were observed.

##	Stratified by wave		
##	2	3	4
## n	277	293	299
## age_yrs (mean (SD))	29.99 (5.83)	30.16 (5.64)	29.72 (6.08)
## sex = Male (%)	100 (36.1)	114 (39.2)	120 (40.3)
## edu (%)			
## College	135 (49.5)	133 (46.2)	144 (48.3)
## Graduate	63 (23.1)	64 (22.2)	58 (19.5)
## Primary	7 ( 2.6)	7 ( 2.4)	2 ( 0.7)
## Secondary	68 (24.9)	84 (29.2)	94 (31.5)
## province_full (%)			
## Alberta	29 (10.5)	47 (16.0)	38 (12.7)
## British Columbia	37 (13.4)	40 (13.7)	40 (13.4)
## Manitoba	7 ( 2.5)	9 ( 3.1)	12 ( 4.0)
## New Brunswick	5 ( 1.8)	10 ( 3.4)	7 ( 2.3)
## Newfoundland	3 ( 1.1)	5 ( 1.7)	5 ( 1.7)
## Nova Scotia	8 ( 2.9)	4 ( 1.4)	8 ( 2.7)
## Ontario	116 (41.9)	103 (35.2)	106 (35.5)
## Prince Edward Island	1 ( 0.4)	0 ( 0.0)	0 ( 0.0)
## Quebec	62 (22.4)	64 (21.8)	77 (25.8)
## Saskatchewan	9 ( 3.2)	11 ( 3.8)	6 ( 2.0)
## chronic_descriptive (%)			
## Autoimmune	36 (13.0)	31 (10.6)	38 (12.7)
## Cancer	9 ( 3.2)	6 ( 2.0)	10 ( 3.3)
## Diabetes	14 ( 5.1)	16 ( 5.5)	22 ( 7.4)
## Heart disease	51 (18.4)	63 (21.5)	54 (18.1)
## Hypertension	40 (14.4)	43 (14.7)	43 (14.4)

##	Lung disease	96 (34.7)	106 (36.2)	103 (34.4)
##	Obesity	28 (10.1)	17 ( 5.8)	23 ( 7.7)
##	Other	3 ( 1.1)	11 ( 3.8)	6 ( 2.0)
##	chronic_multi = 1 (%)	108 (39.0)	119 (40.6)	119 (39.8)
##	any_m_health = 1 (%)	136 (49.1)	142 (48.5)	156 (52.2)
##	hoinc (%)			
##	Bottom 3rd	75 (29.6)	91 (36.0)	87 (34.0)
##	Middle 3rd	140 (55.3)	138 (54.5)	148 (57.8)
##	Top 3rd	38 (15.0)	24 ( 9.5)	21 ( 8.2)
##		Stratified by wave		
##		5	6	7
##	n	237	209	229
##	age_yrs (mean (SD))	30.69 (5.78)	29.56 (6.11)	30.48 (5.67)
##	sex = Male (%)	86 (36.3)	77 (37.4)	85 (37.4)
##	edu (%)			
##	College	122 (52.4)	96 (45.9)	119 (52.7)
##	Graduate	44 (18.9)	35 (16.7)	40 (17.7)
##	Primary	7 ( 3.0)	2 ( 1.0)	3 ( 1.3)
##	Secondary	60 (25.8)	76 (36.4)	64 (28.3)
##	province_full (%)			
##	Alberta	24 (10.1)	26 (12.4)	32 (14.0)
##	British Columbia	30 (12.7)	33 (15.8)	37 (16.2)
##	Manitoba	11 ( 4.6)	6 ( 2.9)	7 ( 3.1)
##	New Brunswick	4 ( 1.7)	3 ( 1.4)	5 ( 2.2)
##	Newfoundland	6 ( 2.5)	1 ( 0.5)	0 ( 0.0)
##	Nova Scotia	6 ( 2.5)	11 ( 5.3)	8 ( 3.5)
##	Ontario	92 (38.8)	79 (37.8)	79 (34.5)
##	Prince Edward Island	1 ( 0.4)	1 ( 0.5)	0 ( 0.0)
##	Quebec	56 (23.6)	44 (21.1)	54 (23.6)
##	Saskatchewan	7 ( 3.0)	5 ( 2.4)	7 ( 3.1)
##	chronic_descriptive (%)			
##	Autoimmune	38 (16.0)	35 (16.7)	29 (12.7)
##	Cancer	2 ( 0.8)	3 ( 1.4)	4 ( 1.7)
##	Diabetes	12 ( 5.1)	9 ( 4.3)	18 ( 7.9)
##	Heart disease	31 (13.1)	29 (13.9)	27 (11.8)
##	Hypertension	39 (16.5)	25 (12.0)	41 (17.9)
##	Lung disease	86 (36.3)	78 (37.3)	79 (34.5)
##	Obesity	26 (11.0)	22 (10.5)	21 ( 9.2)
##	Other	3 ( 1.3)	8 ( 3.8)	10 ( 4.4)
##	chronic_multi = 1 (%)	89 (37.6)	75 (35.9)	73 (31.9)
##	any_m_health = 1 (%)	137 (57.8)	115 (55.0)	110 (48.0)
##	hoinc (%)			
##	Bottom 3rd	62 (32.3)	60 (33.7)	49 (24.1)
##	Middle 3rd	110 (57.3)	102 (57.3)	131 (64.5)
##	Top 3rd	20 (10.4)	16 ( 9.0)	23 (11.3)
##		Stratified by wave		
##		8	p	test
##	n	247		
##	age_yrs (mean (SD))	29.87 (5.47)	0.319	
##	sex = Male (%)	118 (48.6)	0.072	
##	edu (%)		0.140	
##	College	113 (46.3)		
##	Graduate	63 (25.8)		
##	Primary	6 ( 2.5)		

```

##      Secondary                62 (25.4)
## province_full (%)              0.756
##      Alberta                 39 (15.8)
##      British Columbia        38 (15.4)
##      Manitoba                 11 ( 4.5)
##      New Brunswick           7 ( 2.8)
##      Newfoundland            6 ( 2.4)
##      Nova Scotia              4 ( 1.6)
##      Ontario                 94 (38.1)
##      Prince Edward Island     1 ( 0.4)
##      Quebec                  43 (17.4)
##      Saskatchewan            4 ( 1.6)
## chronic_descriptive (%)        0.065
##      Autoimmune              30 (12.1)
##      Cancer                   6 ( 2.4)
##      Diabetes                 16 ( 6.5)
##      Heart disease            61 (24.7)
##      Hypertension             37 (15.0)
##      Lung disease             71 (28.7)
##      Obesity                  21 ( 8.5)
##      Other                    5 ( 2.0)
## chronic_multi = 1 (%)         112 (45.3)  0.105
## any_m_health = 1 (%)         144 (58.3)  0.072
## hoinc (%)                     0.025
##      Bottom 3rd              81 (37.5)
##      Middle 3rd              124 (57.4)
##      Top 3rd                 11 ( 5.1)

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**TABLE S2: Young adults with no chronic health conditions across survey rounds/waves**

There exist minor differences between some waves in variables age, sex, education level, and perceived income status.

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## Warning in ModuleReturnVarsExist(vars, data): These variables only have NA/NaN:
## chronic_descriptive Dropped

```

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## Warning in ModuleReturnVarsExist(factorVars, data): These variables only have
## NA/NaN: chronic_descriptive Dropped

```

```

##                               Stratified by wave
##                               2           3           4
## n                             857         670         761
## age_yrs (mean (SD))          28.94 (5.89)  29.25 (5.89)  28.36 (6.15)
## sex = Male (%)               356 ( 41.7)   255 ( 38.3)   287 ( 37.9)
## edu (%)
##   College                    473 ( 55.6)   366 ( 55.1)   378 ( 50.2)
##   Graduate                   139 ( 16.3)   111 ( 16.7)   116 ( 15.4)
##   Primary                     2 (  0.2)     2 (  0.3)     8 (  1.1)
##   Secondary                   237 ( 27.8)   185 ( 27.9)   251 ( 33.3)
## province_full (%)
##   Alberta                    90 ( 10.5)    68 ( 10.1)   110 ( 14.5)

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##	British Columbia	126 ( 14.7)	102 ( 15.2)	108 ( 14.2)
##	Manitoba	30 ( 3.5)	20 ( 3.0)	22 ( 2.9)
##	New Brunswick	15 ( 1.8)	20 ( 3.0)	16 ( 2.1)
##	Newfoundland	10 ( 1.2)	7 ( 1.0)	5 ( 0.7)
##	Nova Scotia	23 ( 2.7)	13 ( 1.9)	16 ( 2.1)
##	Ontario	324 ( 37.8)	254 ( 37.9)	286 ( 37.6)
##	Prince Edward Island	0 ( 0.0)	3 ( 0.4)	2 ( 0.3)
##	Quebec	213 ( 24.9)	158 ( 23.6)	177 ( 23.3)
##	Saskatchewan	26 ( 3.0)	25 ( 3.7)	19 ( 2.5)
##	chronic_multi = 0 (%)	857 (100.0)	670 (100.0)	761 (100.0)
##	any_m_health = 1 (%)	166 ( 19.4)	136 ( 20.3)	155 ( 20.4)
##	hoinc (%)			
##	Bottom 3rd	189 ( 24.9)	148 ( 26.7)	168 ( 26.8)
##	Middle 3rd	446 ( 58.8)	335 ( 60.4)	393 ( 62.7)
##	Top 3rd	124 ( 16.3)	72 ( 13.0)	66 ( 10.5)
##		Stratified by wave		
##		5	6	7
##	n	814	766	758
##	age_yrs (mean (SD))	29.95 (5.89)	29.06 (6.03)	29.20 (5.90)
##	sex = Male (%)	317 ( 39.0)	312 ( 41.0)	322 ( 42.6)
##	edu (%)			
##	College	412 ( 50.9)	393 ( 51.6)	377 ( 49.9)
##	Graduate	154 ( 19.0)	158 ( 20.7)	160 ( 21.2)
##	Primary	7 ( 0.9)	5 ( 0.7)	9 ( 1.2)
##	Secondary	236 ( 29.2)	206 ( 27.0)	209 ( 27.7)
##	province_full (%)			
##	Alberta	95 ( 11.7)	91 ( 11.9)	90 ( 11.9)
##	British Columbia	112 ( 13.8)	122 ( 15.9)	111 ( 14.6)
##	Manitoba	29 ( 3.6)	31 ( 4.0)	27 ( 3.6)
##	New Brunswick	18 ( 2.2)	8 ( 1.0)	9 ( 1.2)
##	Newfoundland	10 ( 1.2)	10 ( 1.3)	10 ( 1.3)
##	Nova Scotia	22 ( 2.7)	21 ( 2.7)	14 ( 1.8)
##	Ontario	311 ( 38.2)	277 ( 36.2)	294 ( 38.8)
##	Prince Edward Island	2 ( 0.2)	3 ( 0.4)	2 ( 0.3)
##	Quebec	190 ( 23.3)	176 ( 23.0)	185 ( 24.4)
##	Saskatchewan	25 ( 3.1)	27 ( 3.5)	16 ( 2.1)
##	chronic_multi = 0 (%)	814 (100.0)	766 (100.0)	758 (100.0)
##	any_m_health = 1 (%)	175 ( 21.5)	167 ( 21.8)	183 ( 24.1)
##	hoinc (%)			
##	Bottom 3rd	158 ( 22.9)	144 ( 22.4)	157 ( 25.0)
##	Middle 3rd	438 ( 63.5)	417 ( 65.0)	394 ( 62.8)
##	Top 3rd	94 ( 13.6)	81 ( 12.6)	76 ( 12.1)
##		Stratified by wave		
##		8	p	test
##	n	769		
##	age_yrs (mean (SD))	29.06 (5.88)	<0.001	
##	sex = Male (%)	335 ( 44.0)	0.123	
##	edu (%)		0.018	
##	College	409 ( 53.5)		
##	Graduate	135 ( 17.6)		
##	Primary	7 ( 0.9)		
##	Secondary	214 ( 28.0)		
##	province_full (%)		0.900	
##	Alberta	90 ( 11.7)		

##	British Columbia	100 ( 13.0)	
##	Manitoba	29 ( 3.8)	
##	New Brunswick	14 ( 1.8)	
##	Newfoundland	7 ( 0.9)	
##	Nova Scotia	21 ( 2.7)	
##	Ontario	313 ( 40.7)	
##	Prince Edward Island	1 ( 0.1)	
##	Quebec	175 ( 22.8)	
##	Saskatchewan	19 ( 2.5)	
##	chronic_multi = 0 (%)	769 (100.0)	NA
##	any_m_health = 1 (%)	176 ( 22.9)	0.276
##	hoinc (%)		0.134
##	Bottom 3rd	153 ( 24.2)	
##	Middle 3rd	388 ( 61.5)	
##	Top 3rd	90 ( 14.3)	