

Major factors influencing the physical and mental health of Canadians*

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Abstract

The general wellbeing of Canadians, in terms of both physical and mental health, can greatly reflect the development level of Canada as a country, as well as serving as accurate measures of living conditions of Canadians; yet wellbeing of Canadians differ to a large extent between groups of varying demographic characteristics. In this paper, we used data from “General social survey on Canadians at Work and Home (cycle 30), 2016” to analyze potential factors affecting the wellbeing of Canadians. We found that smoking, drinking, and eating behaviors could all affect people’s health level, while sex, income, and job satisfactions as well as other factors are related to people’s mental stress. As factors influencing Canadian wellbeing are becoming clear, we hope the Canadian government could pay attention to and improve Canadians’ living qualities, especially for minority groups.

1 Introduction

Improving the Canadian wellbeing and living standards has always been a main goal of the Canadian government. As stated by Statistics Canada, measures such as the Canadian Index of Well-being (CIW) were designed and put into use in as early as the 2000s in order to provide more accurate measures of Canadian people’s wellbeing, from aspects including health conditions, economic status, and social status (Sanmartin et al., 2021). In the meantime, with the fast-paced development of technology and medical benefits, Canadians are experiencing longer lives and more healthy lifestyles. Nevertheless, contrary to the longer lifespan, the self-rated happiness level of Canadians is deteriorating (2017). In this paper, our goal is to examine which factors would affect Canadian wellbeing and give suggestions to the government to improve both physical and mental health conditions of Canadians, especially those who belong to minority groups.

Factors such as age, gender, and income are all related to happiness of Canadians; in specific, more than 60% of Canadians with household incomes greater than 80,000 dollars per year reported to be in excellent health conditions, while less than 50% of Canadians with household incomes less than 40,000 dollars per year reported to be in good health. There are also less common variables that have not been widely examined before, including smoking, drinking, and eating behaviors of Canadian people, as well as frequency of doing sports or exercises.

A survey was created in 2016 to measure both the physical and mental health of Canadians in 10 provinces in Canada aged 15 and above. To facilitate sampling procedure, each of the 10 provinces were divided into strata, and each of the respondent was reached via telephone. Online survey and telephone survey are also used in order to decrease the non-response rate. From the survey responses, age, sex and income are all related to people’s mental health; smoking, drinking, and eating habits are related to physical health. Particularly, people with unhealthy life styles and lower incomes experience worse levels of wellbeing.

The paper is structured as follows: first, we talk about the survey methodology and sample and population frames. Second, we manipulated collected survey data to analyze potential factors influencing general wellbeing of Canadians. Finally, we give some advice to the government on how to improve the physical and mental health of Canadian people.

*Code and data are available at: <https://github.com/Yuxuan-Yang-Maggie/Canadian-Wellbeing>.

Table 1: Glimpse: Canadians and their well-being measured in various aspects in 2016

caseid	smoke_status	drink_status	stress_level	health_level
5	3	7	2	10
8	3	4	3	7
10	3	7	3	8
20	3	5	1	10
21	3	7	2	8
36	3	6	3	7
41	3	6	2	10
59	3	6	3	10
70	3	5	4	10
74	1	6	2	8

Table 2: Number and proportion of respondents by self-rated health level

health	count	proportion
Not at all satisfied	10	0.0063052
level 1	7	0.0044136
level 2	12	0.0075662
level 3	25	0.0157629
level 4	42	0.0264817
level 5	134	0.0844893
level 6	136	0.0857503
level 7	299	0.1885246
level 8	467	0.2944515
level 9	229	0.1443884
Completely satisfied	225	0.1418663

2 Data

Keywords: we will talk about survey methodology, sample and population frames, etc, and look at our data.

Talk way more about it.

3 Model

$$Pr(\theta|y) = \frac{Pr(y|\theta)Pr(\theta)}{Pr(y)} \quad (1)$$

will be useful.

Equation (1) will be useful.

Here's a dumb example of how to use some references: In paper we run our analysis in R (cite R here). We also use the `tidyverse` which was written by ... If we were interested in baseball data then ... could be useful.

We can use maths by including latex between dollar signs, for instance θ .

Keywords: Here we will build linear regression models, analyze factors influecing Canadian wellbeing.

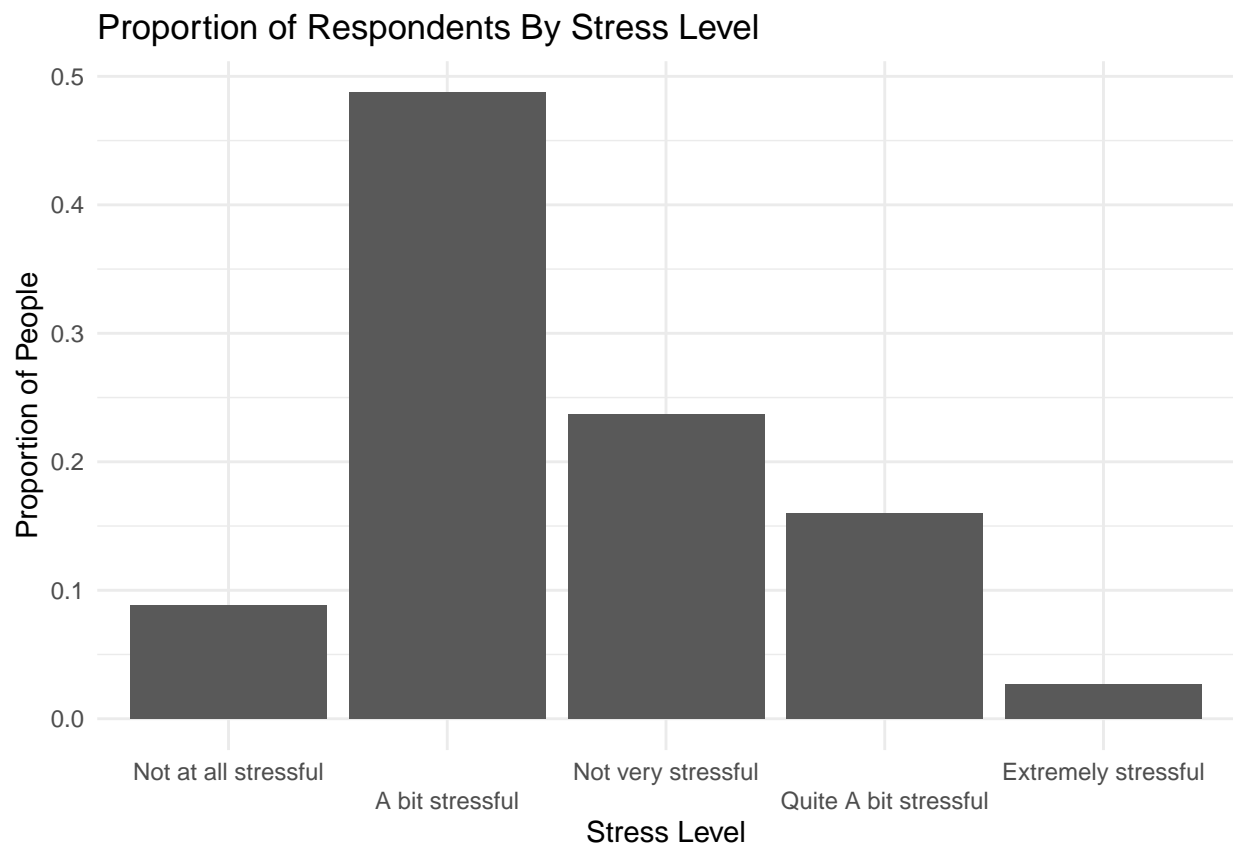


Figure 1: Proportions of Canadians Who Responded to the Work and Life General Social Survey in 2016, By Stress Level

4 Results

Keywords: Strictly display results. Explain them.

5 Discussion

Keywords: Extend the topic. Talk way more.

5.1 First discussion point

If my paper were 10 pages, then should be at least 2.5 pages. The discussion is a chance to show off what I know and what I learnt from all this.

5.2 Second discussion point

5.3 Third discussion point

5.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

Appendix

A Additional details

B References