Education level, amount of time spend as a family and workload greatly affects Canadians' self-rated mental health

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Abstract

There are multiple factors that cause people's mental health problems. In this paper, we explored the Canadian General Social Survey (GSS), Cycle 30, 2016: Canadians at work and at home, and fitted a regression model based on factors related to self-rated mental health with R. We found that the education level, family time and workload seriously affect Canadians' mental health self assessment. This can not only roughly predict individual mental health, but also remind people to pay more attention to their mental health, especially during the COVID-19 pandemic periods.

Keywords: Canadian well being; Self rated mental health; COVID-19; Stress; Regression analysis with R.

Introduction

Pervasive mental health problems have always been a topic of concern to researchers and the public. According to the Canadian Mental Health Association, approximately one in five people in Canada will experience mental health problems or illnesses in any given year, and before the age of 40, nearly half of the population will suffer from mental illness or have previously suffered from mental illness. (Canadian Mental Health Association, n.d.) It is obviously that people's mental health problems deserve attention. Especially in the current COVID-19 epidemic, the new disease has brought people a certain amount of panic. Meanwhile, a number of measures that try to prevent the spread of the virus, such as maintaining a safe distance during isolation, the closure of public entertainment places, make people feel isolated and lonely, causing increased stress and anxiety. (CDC, 2020) How people deal with the stress during this pandemic may depend on various factors and different coping styles may lead to different mental health conditions. Therefore, it is important to find the relationship between people's assessment of their own mental health and relevant factors.

We utilized the dataset about Canadian General social survey(GSS), Cycle 30, 2016: Canadians at work and home, which was conducted from August 2 to December 23, 2016. It was a sample survey with a cross-sectional design and covered 10 provinces of Canada. Non-institutionalized personnel aged 15 and above were the target population. This survey provided information on social trends about working conditions, family status, time utilization, sources of stress, and how these factors affect the well beings of Canadians. (GSS, 2016) Different aspects such as social environment, family environment, education level, and lifestyle have influences on people's general mental health (Fei Guo, Zheng Huang, Zhiyan Chen, 2019). This report mainly examined which of these factors can strongly affect individuals' self rated mental health and how to roughly predict it.

Below in the data section, we will introduce the data set and focus on several variables we choose, then conduct the regression analysis with R and obtain the regression model, which followed by multiple figures and tables in the result section. Finally in the discussion section, we will discuss our finding based on the model results as well as some weaknesses and opportunities for the future work.

Data

to be continued...

Data Selection and Visualization

to be continued...

Model

to be continued...

Discussion

to be continued...

Weakness and Next Step

to be continued...

Appendix

Code for this analysis is available at:

Reference

- Canadian Mental Health Association. (n.d.). Fast Facts about Mental Illness. Retrieved 8 December, 2020, from https://cmha.ca/fast-facts-about-mental-illness
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