

# Predictors of Poor Mental Health

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09/12/2020

## Abstract

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**Keywords:** Mental Health, Alcohol Abuse, Drug Usage, Canadian Health, Logistic Regression;

## Introduction

In this paper, we use (R Core Team 2019) to conduct our analysis.

## Data

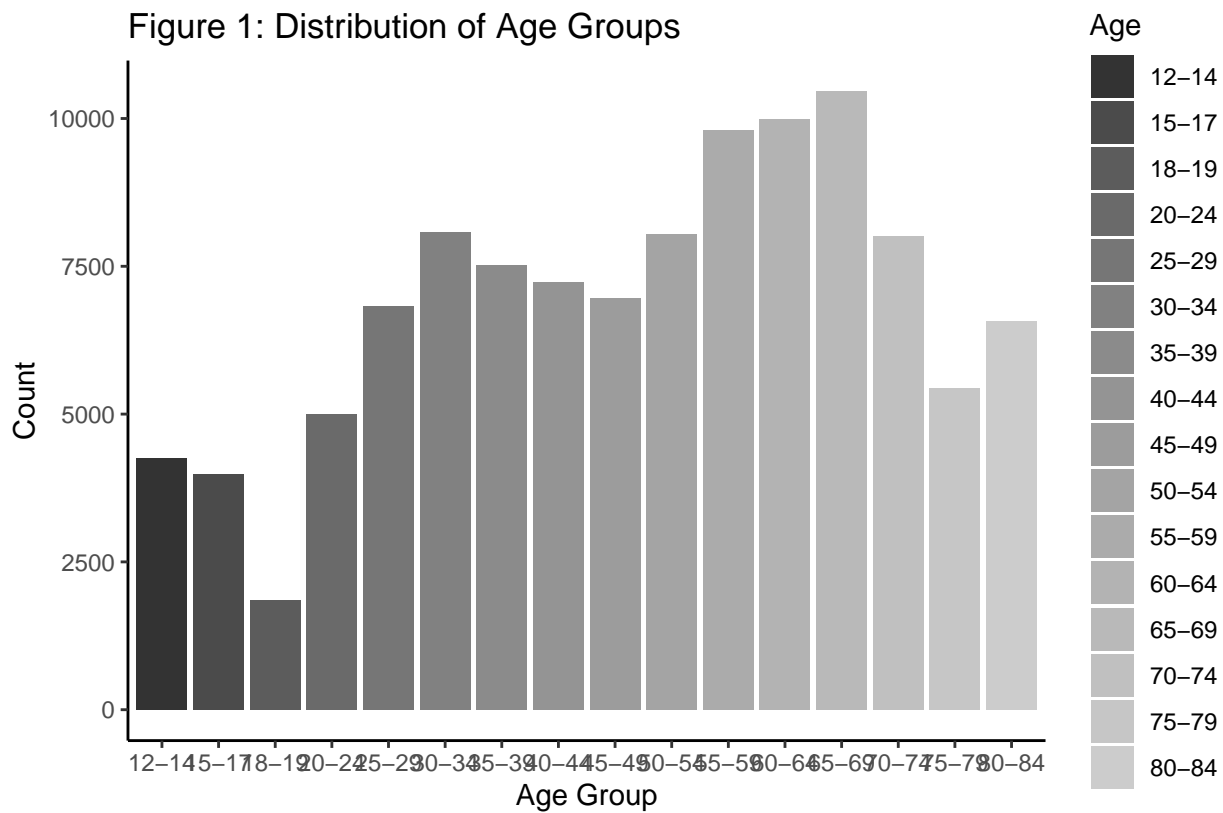
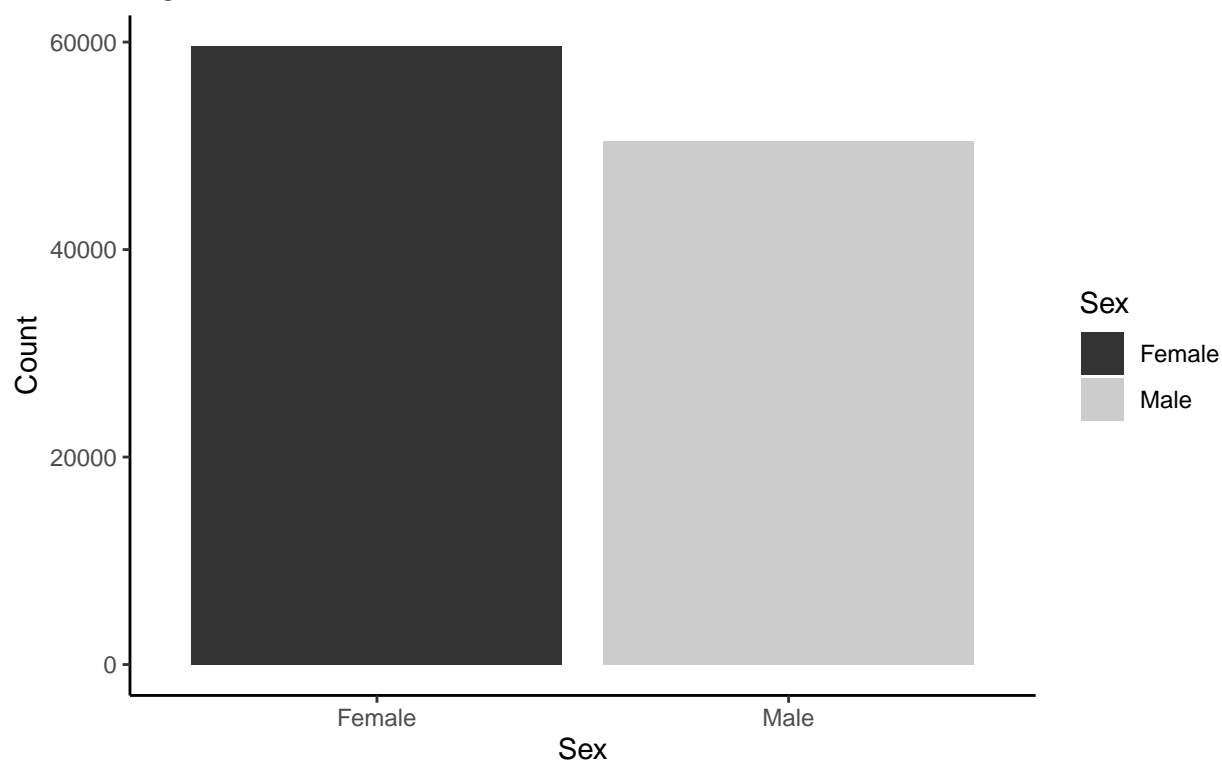
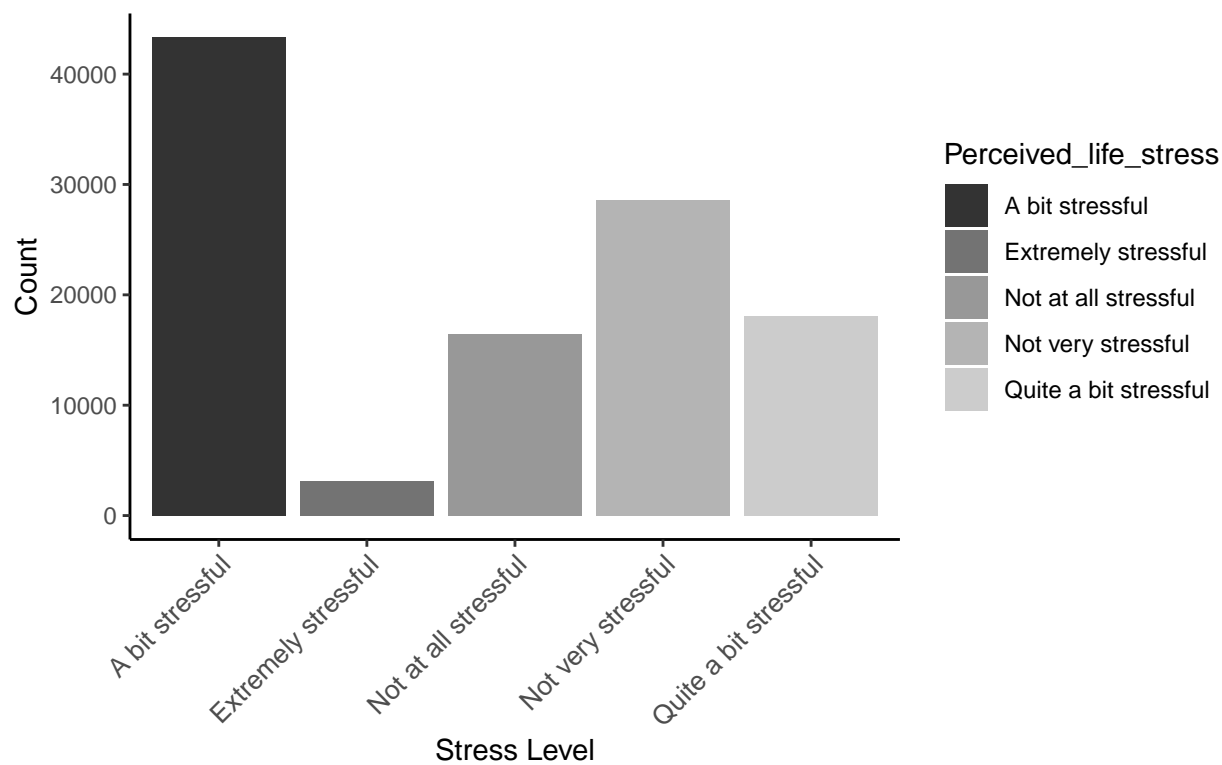


Figure 2: Distribution of Sex



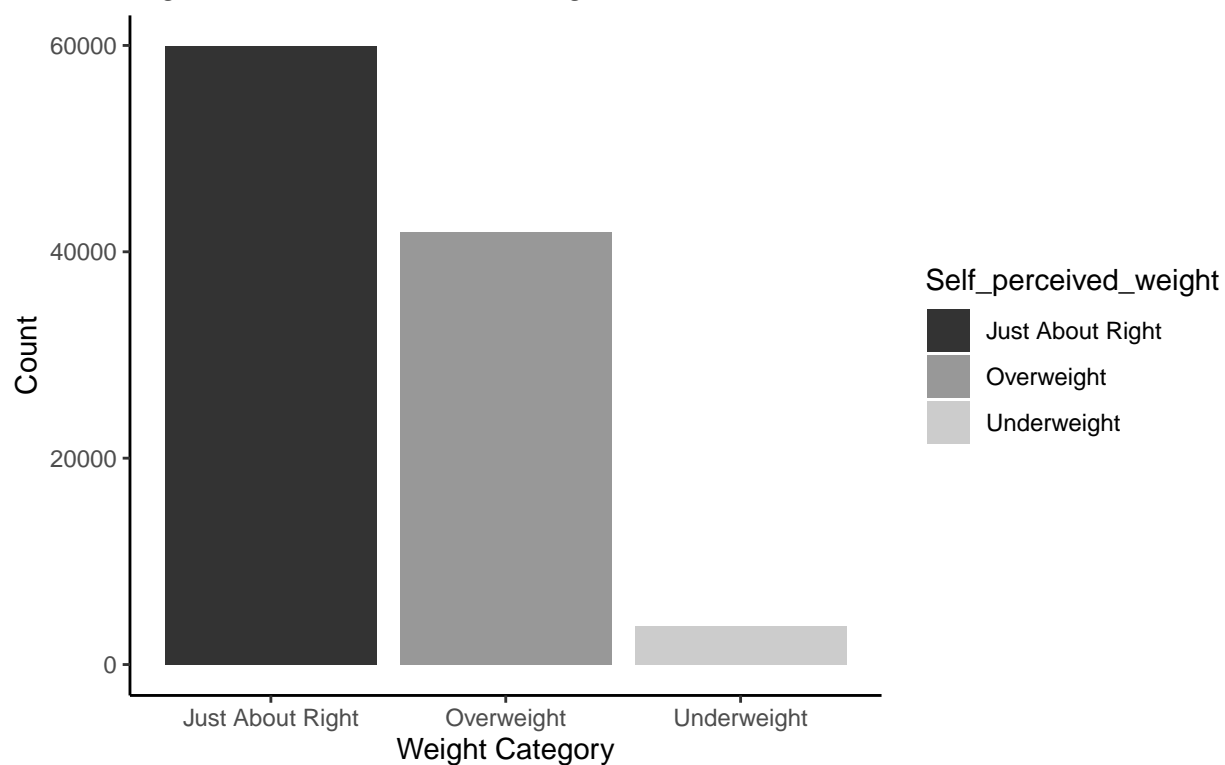
Source: 2017–2018 CCHS

Figure 3: Perceived Life Stress



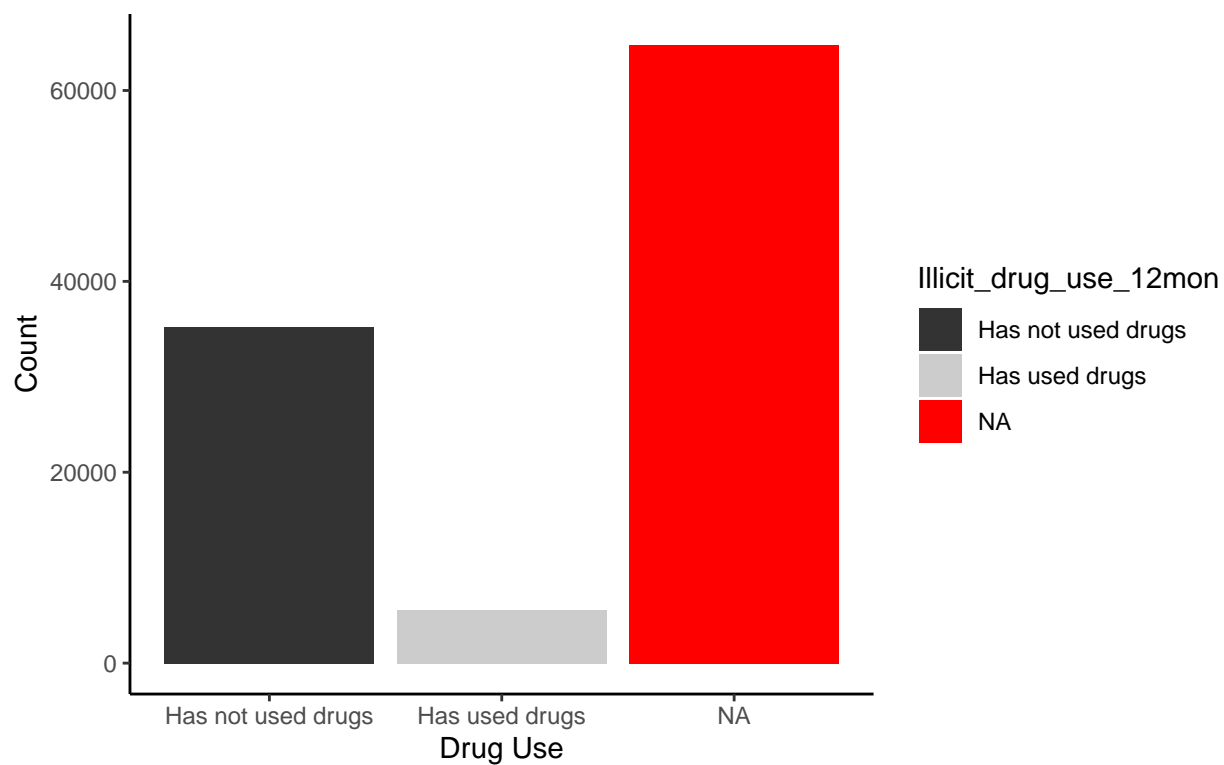
Source: 2017–2018 CCHS

Figure 4: Self Perceived Weight



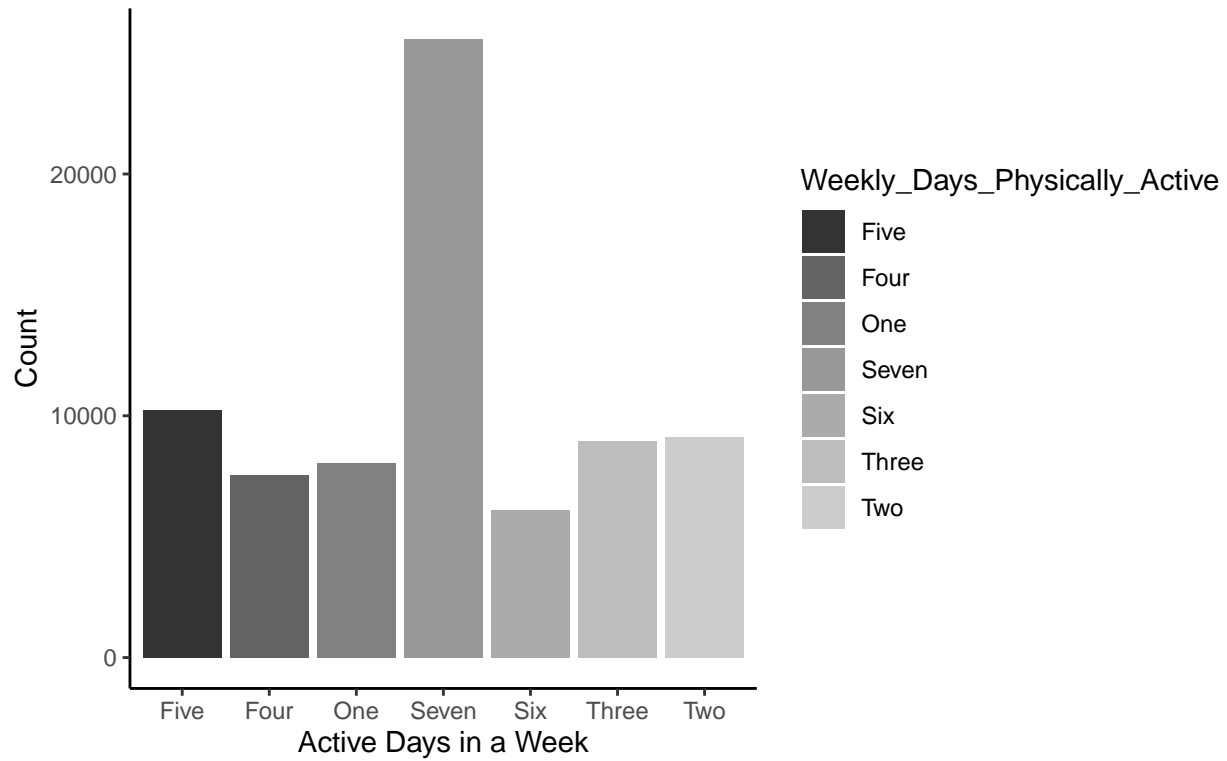
Source: 2017–2018 CCHS

Figure 4: Drug Use (Last 12 Months)



Source: 2017–2018 CCHS

Figure 6: Weekly Days Physically Active



## Model

This study uses a logistic regression model of the form:

$$\log \left( \frac{\hat{p}}{1 - \hat{p}} \right) = \beta_1 + \beta_2 * x_{PhysicalActivity} + \beta_3 * x_{Sex} + \beta_4 * x_{Weight} + \beta_5 * x_{Stress} + \beta_6 * x_{DrugUse} + \beta_7 * x_{AgeGroup}$$

## References

R Core Team. 2019. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.