Predictors of Poor Mental Health

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Abstract

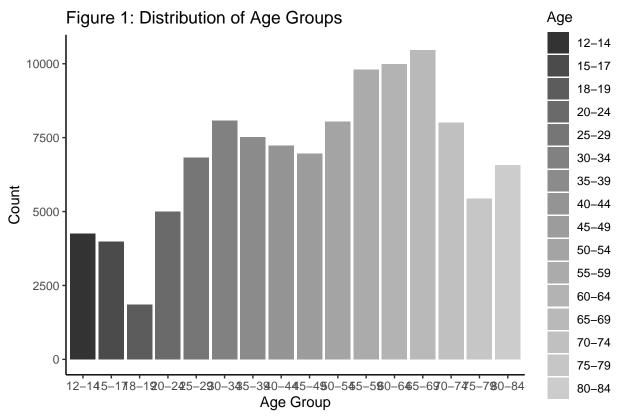
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Keywords: Mental Health, Alcohol Abuse, Drug Usage, Canadian Health, Logistic Regression;

Introduction

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

Data



Source: 2017-2018 CCHS

Figure 2: Distribution of Sex

40000
20000

Female
Sex
Male

Sex
Male

Source: 2017-2018 CCHS

Figure 3: Perceived Life Stress

40000

30000

20000

10000

A bit stressful

Extremely stressful

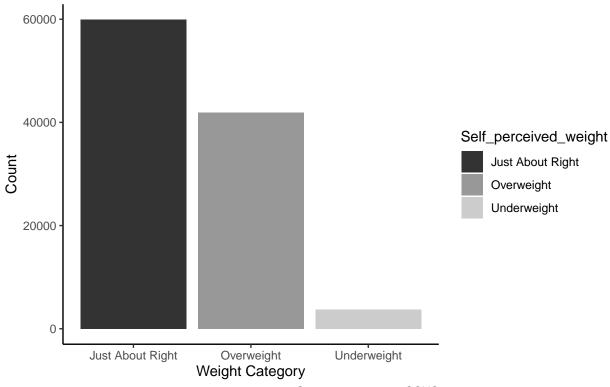
Not at all stressful

Not very stressful

Quite a bit stressful

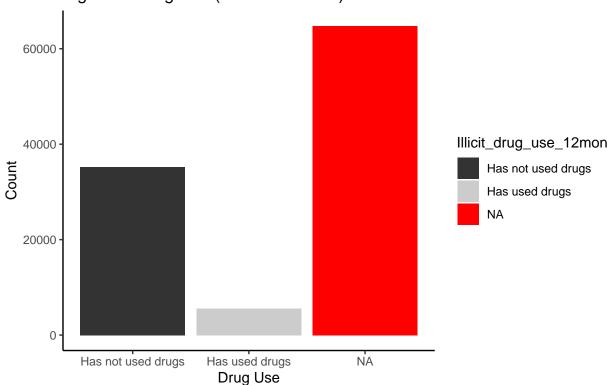
Stress Level

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 20000 Weekly_Days_Physically_Active Five Four Count One Seven 10000 Six Three Two Five Four One Seven Six Three Two Active Days in a Week Source: 2017-2018 CCHS

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/.