Workshop Manuscript

Attendees

July 11, 2019

Introduction

In 2010, the National Health Survey on Drug use and Health (NSDUH) primarily measures the prevalence and correlates of drug use in the United States. The information collected was designed to learn population level use of illicit drugs, alcohol, and tobacco among members of United States households aged 12 and older. The survey covers substance use history, treatment, and perceived need for treatment, including questions from the DSM IV. Respondents were also asked about personal family income sources and amounts, and health care access. For this study, we were interested in comparing the characteristics of a subgroup of youth (age 12-17) respondents who are currently receiving counselling for mood disorders.

Growing up with a diagnosed mood disorder can significantly increase the changes of the youth trying a cigarette, and continuing to smoke. Smoking may also be attributed to a downward spiral of academic performance and have social consequences for school children.[1]

Methods

For this study we will collaborate with fellow workshop attendees to determine if there is an effect of having tried a cigarette on overall health rating from the NSDUH 2010 data. Since we are confident that we will find an effect, we will be looking at differences in self-reported gender as well. To address this problem we will run a simple between-groups ANOVA, comparing the mean effects of having tried a cigarette on self-reported health. We believe that this sub sample of survey respondents who have been treated for a mood disorder and have tried a cigarette will report a lower index of self-reported overall health.
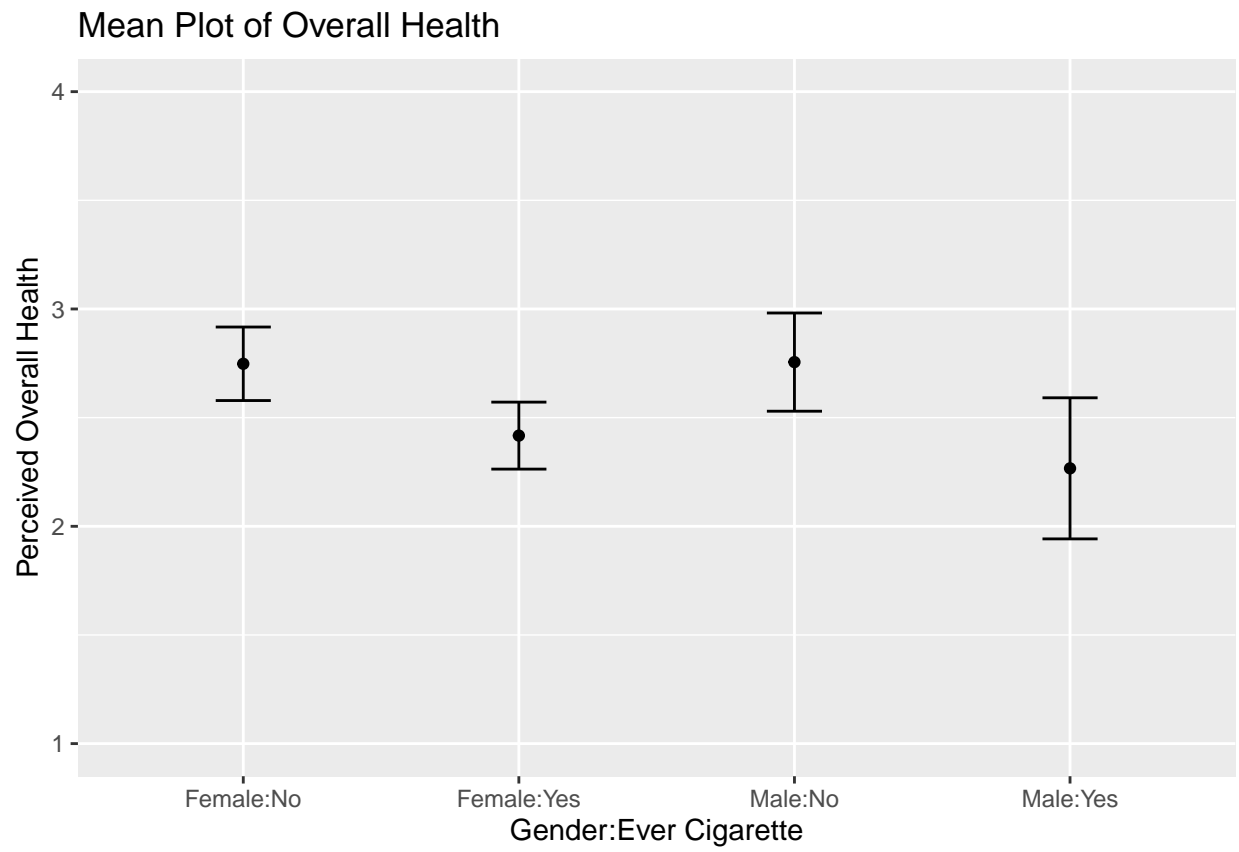
Results

Sample Demographics

Table 1 shows us the characteristics of this subgroup of youth seeking clinical support for a mood disorder.

	Count/Mean	Prop/SD
Female	242	0.7634
Smoked	157	0.4953
Health	3	0.9030
Age	15	0.9030

ANOVA

```
##                 Df Sum Sq Mean Sq F value   Pr(>F)
## gender           1   0.01   0.012   0.015 0.902541
## cig_ever         1  10.55  10.547  13.379 0.000299 ***
## gender:cig_ever  1   0.35   0.348   0.441 0.507032
## Residuals      313 246.75   0.788
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Mean Plot of Overall Health

References

1. Bewley BR, Bland J. Academic performance and social factors related to cigarette smoking by schoolchildren. *Journal of Epidemiology & Community Health.* 1977;31(1):18-24.