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Correlation Between Fruits and Vegetables and Mood

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INTRODUCTION

- Fruit consumption in the United States is known to be below the recommended amount
- Fruit consumption is critical to a healthy mental functioning (JV. Rooney et al., 2013)
- The purpose of this study is to determine the correlation between fruit consumption and mood
- Is there a relationship between fruit consumption and increased mood?

METHODS

Deliverance: social media (Instagram, Reddit, Snapchat) and text messaging

(GroupMe)

Participants: 153

Demographics: Male/Female, 18+

Analysis: Pearson Correlation Coefficient

RESULTS

- Negative correlation between fruit consumption and feeling restless or fidgety
 - o r= -0.263, N= 151, p= 0.001
- Negative correlation fruit consumption and feeling so depressed that nothing could get you out of bed
 - o r= -.291, N= 150, p= 0
- Positive correlation between fruit consumption and the amount of exercise performed in a week
- \circ = .363, N=153, p=0
- Trending negative correlation between eating fruit 5 or more times a week and consuming caffeine 5 or more times a week.
- \circ r= -0.155, N=151; (p=0.057)

BINGHAMTON UNIVERSITY OF NEW YORK

Correlation Between Fruit Consumption and Mental Health

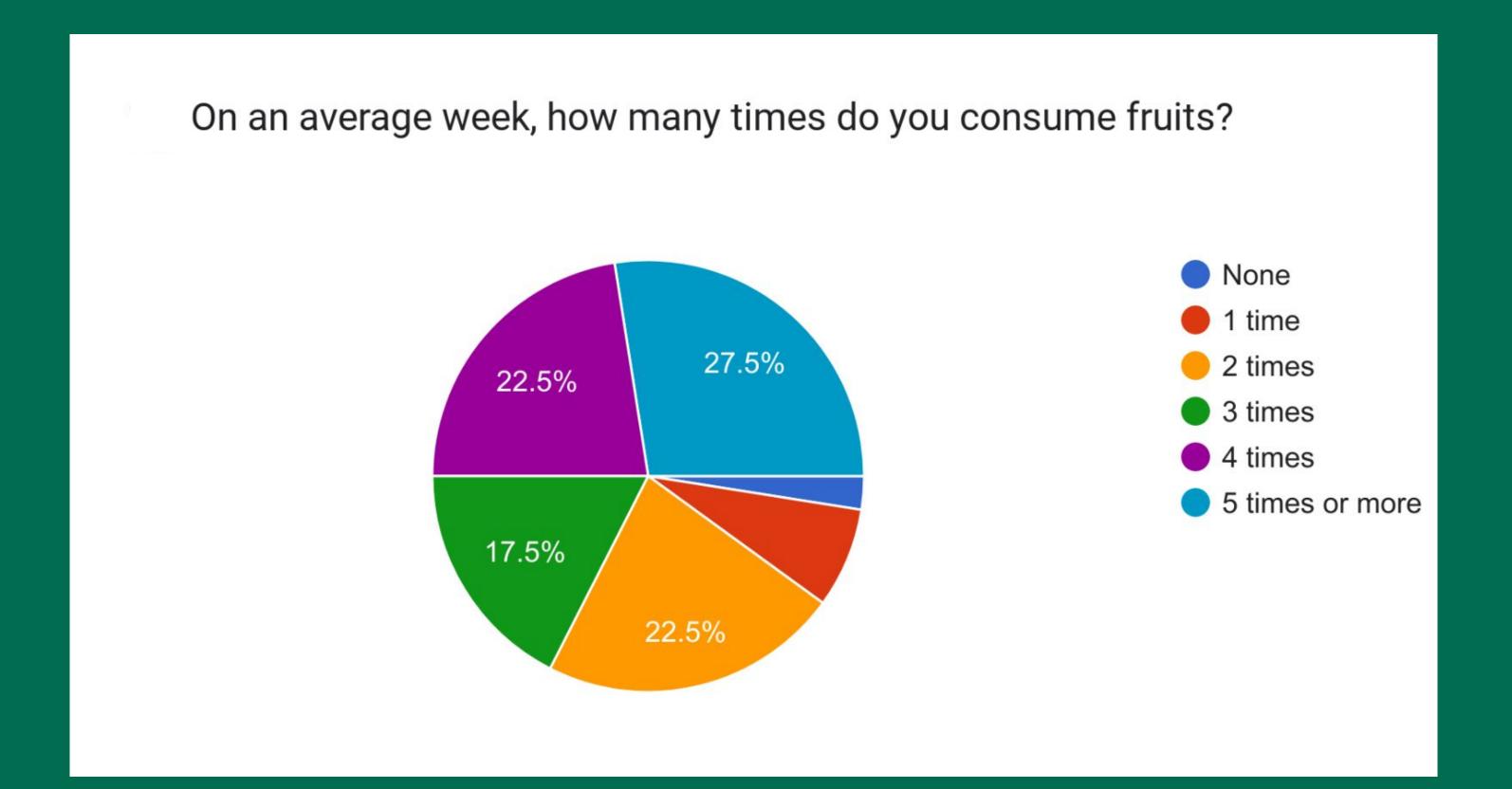
Faculty: Lina Begdache

HWS 410 CURE

Presenters: Faith King, Roy Jacobson, Lanygah Jackson, Kristian Ingebrigtsen

Increased fruit consumption correlates with a decrease in feelings of restlessness and depression

Figure 1.
Response data on weekly consumption of fruit. 2.5% never did, while 27.5% consumed fruit 5+ times



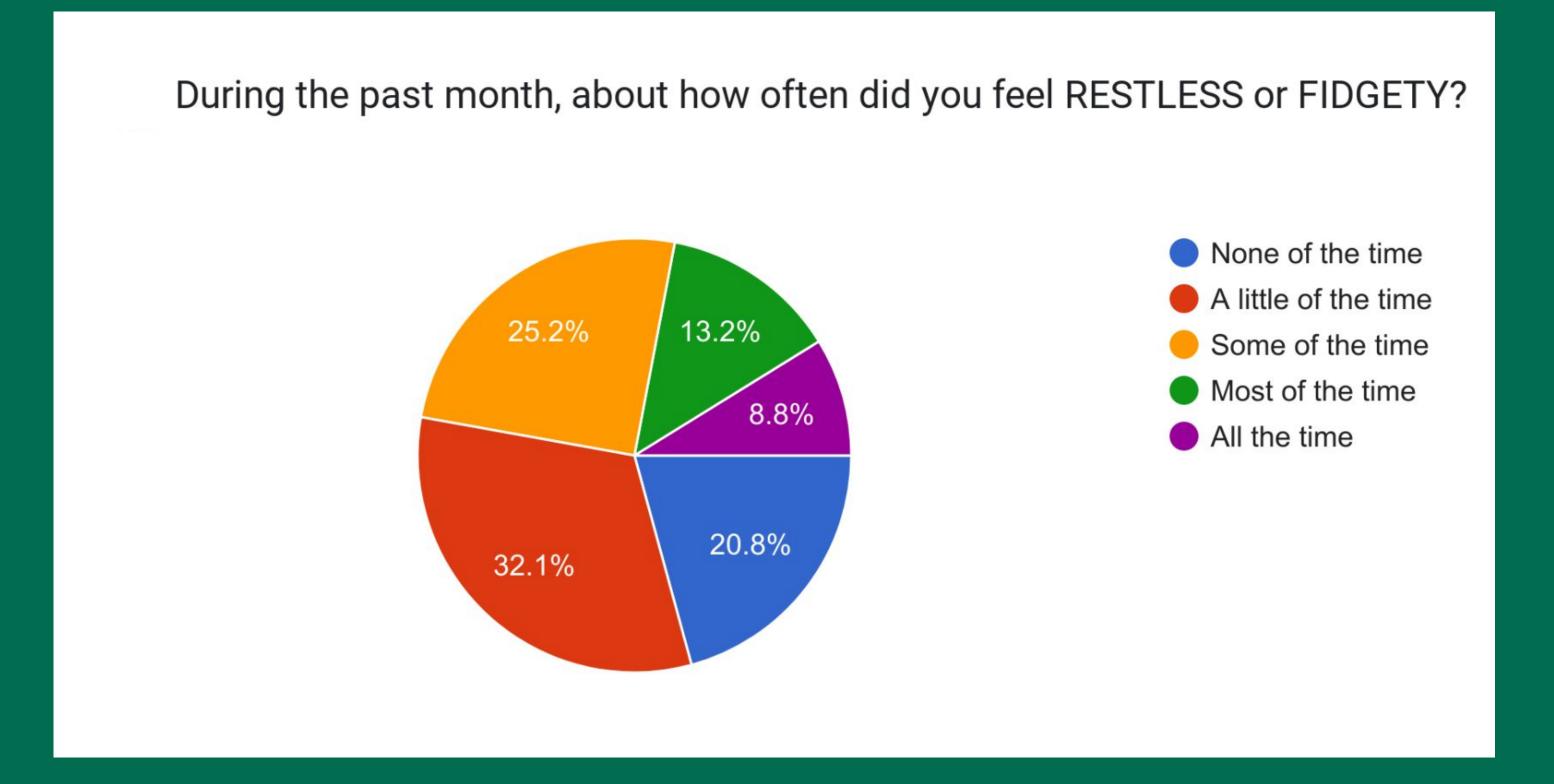
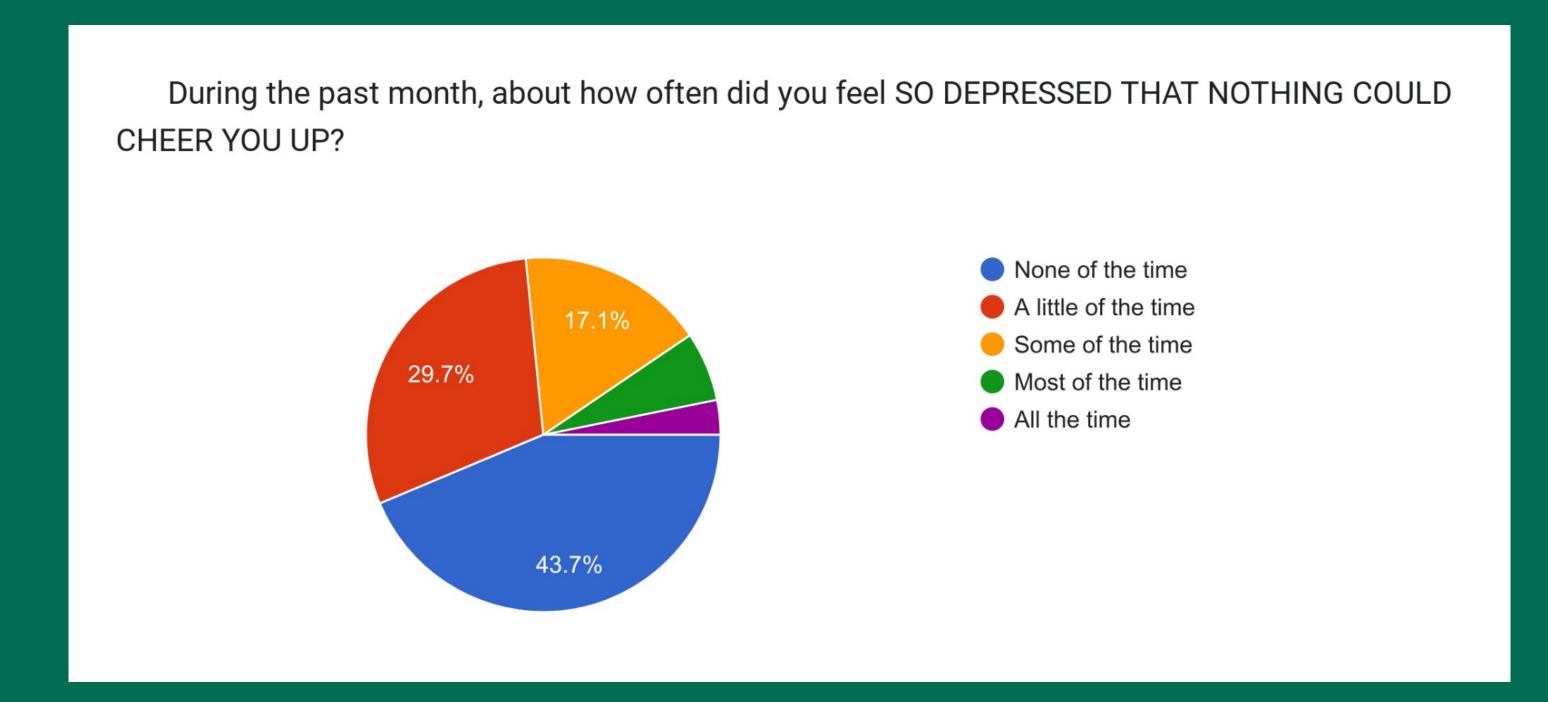


Figure 2.
Response data on feeling restless and fidgety. 8.8% felt this way all the time, while 20.8% felt this none of the time.

Figure 3.
Response data on feeling depressed.
3.2% felt this way all the time, while 43.3% felt this none of the time.



DISCUSSION

Based on our results:

- Participants with high levels of fruit consumption are more likely to exercise throughout the week.
- This relationship reflects a healthy lifetyle
- Fortunately, supporting our initial hypothesis, there was significant correlations between fruit consumption and mood
 - Our research indicates that increased fruit consumption can have a positive effect on mood and decrease feelings of nervousness, hopelessness, restlessness, depression, feeling everything is an effort, and worthlessness
- Potentially due to the fact that fruits are high in antioxidants and polyphenols that impact several biochemical pathways impacting mood.

CONCLUSION

- Our study suggest that there was a significantly negative correlation between low moods such as stress, anxiety, depression or hopelessness and fruit consumption.
- The higher amount of fruit consumed, the lower reportings of a low mood.
- Further research may investigate the impact of fruit consumption on regulating stress in older populations versus younger ones.

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