**Strong positive correlation between percent of adults who consume low frequency of food and consume low frequency of vegetables.**

Saivardhan Mada

We hypothesize that there is a positive correlation between adults who consume less than one fruit a day and adults who consume less than one vegetable a day. The purpose of this study was to better understand if there was a correlation between consumption and vegetables and more insight into the diets of Americans especially since obesity rate is rising. We conducted a correlation study because we were trying to better understand the relationship between two variables. Data was provided by the CDC and included the percent of adults who consumed less than one fruit a day or percent of adults who consumed less than one vegetable a day for every state. The results were that there was a strong positive correlation (r = 0.736). This indicates that an increase in percent of adults who reported consuming fruit less than once a day is also correlated to an increase in percent of adults who report consuming vegetables less than once a day and this fails to reject our hypothesis. These results matter because obesity is a serious concern in our nation and our results suggest that unhealthy diets (low consumption of fruits and vegetables) are correlated which gives us a better idea of average adults health in the United States.

*Figure 1. Scatter plot with linear regression line of adults who consume less than one fruit a day vs adults who consume less than one vegetable a day. Strong positive correlation was found with an r value of 0.736.*