

Student's Name

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Course

Date

## Investigating the Impact of Health and Age on Students' Alcohol Consumption

### Introduction

Alcohol consumption among students is a topic of concern due to its potential consequences on academic performance and overall well-being. This report investigates the relationship between health, age, and alcohol consumption among students enrolled in math courses in a secondary school.

### Methodology

Data was collected through a survey administered to a sample of 395 students (Kaggle). The survey included variables such as age, workday alcohol consumption (Dalc), and current health status. Health status was rated on a scale of 1 (terrible) to 5 (excellent), while alcohol consumption was measured on a scale of 1 (very low) to 5 (very high).

### Results and Discussion

A regression analysis was conducted to examine the relationship between age, health, and daily alcohol consumption. The regression model revealed the following results:

	<i>Coefficient</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-0.304	0.602	0.51	0.613	-1.488	0.879	-1.488	0.879
Age	0.095	0.035	2.73	0.007	0.027	0.164	0.027	0.164
Health	0.055	0.032	1.71	0.087	-0.008	0.118	-0.008	0.118

The regression analysis indicated the significant effect of age on daily alcohol consumption ( $p = 0.007$ ). As the students' ages increased, their daily alcohol consumption also tended to increase. According to Veerbeek et al., the finding aligns with previous research indicating that alcohol consumption and age are positively related (18). Concerning health, the analysis showed that the effect of health on daily alcohol consumption was not statistically significant ( $p = 0.087$ ), suggesting that the current health status of the students did not have a considerable impact on their daily alcohol consumption. Further analysis should explore the effect of these variables on students' overall performance on math tests.

Works Cited

Kaggle. *Student Alcohol Consumption*, 2016,

[www.kaggle.com/datasets/uciml/student-alcohol-consumption](https://www.kaggle.com/datasets/uciml/student-alcohol-consumption). Accessed 26 May 2023.

Veerbeek, Marjolein A., et al. "Differences in Alcohol Use between Younger and Older People: Results from a General Population Study." *Drug and Alcohol Dependence*, vol. 202, 2019, pp. 18-23.