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The Effects of COVID-19 Social Isolation on Binge-Drinking Behaviors in College Students

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The Effects of COVID-19 Social Isolation on Binge-Drinking Behaviors in College Students

Background

- Binge-Drinking is consuming five or more (males) and four or more drinks (females) within a short period of time (Fillamore and Jude, 2011)
- 25% of young adults engage in binges once a month (Center for Disease Control).
- Young adults tend to engage in risk-taking coping behaviors to cope with loneliness (Courtney & Polich, 2009; Copeland et al, 2018).
- People use virtual resources significantly more due to COVID-19 (Meldrum and Clark 2015)
- Social isolation increases when people use virtual technology to communicate (Meldrum & Clark, 2015).
- Major lifestyle changes may result in stress which leads people to engage in coping behaviors like drinking alcohol (Rehm et al, 2020)
- Alcohol sales during COVID-19 have increased drastically (Rehm et al, 2020)
- People are drinking nearly 2-3 more drinks than their previous habits during the pandemic (Lechner et al, 2020)
- In the pandemic, people drink alone, not socially (Dumas et al, 2020)

Research Question

- Does social isolation stemming from the COVID-19 associate with an increase in binge-drinking behaviors in college students?
- Predicted a strong negative correlation

Methods

Participants

- 40 total participants (seven males, 31 females, one Non-Binary, one did not specify)
- Participants' ages ranged from 18-24 (M = 20.34, SD = 1.55)
- 8 participants were excluded from final data analysis due to incomplete surveys or no drinking habits

Procedure

- Participants completed a 10-minute survey on SurveyMonkey
- Participants answered questions on: -Drinking habits before pandemic (March/early April) -Drinking habits during pandemic -Drinking habits in the past year -Alcohol misuse questionnaires -Number of social contacts -Demographic Information

Contact

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Participants took the survey through SurveyMonkey

Drinking Habits

- Participants were first asked six sub-questions about drinking habits before and during the COVID-19 quarantine Rated via Lichert Scale (Strongly Disagree-Strongly Agree)
- Participants took the AUDIT-C questionnaire in its entirety (Figure 1) • Participants took the CAGE-4 questionnaire in its entirety

Demographic and Close Associates • Participants were asked about their age, gender identity, and race

• Participants recorded the number of close associates they have

3. How often did you have a drink containing alcohol in t
Never
O Monthly or less
 Two to four times a month
4. How many drinks containing alcohol did you have on
1 or 2 drinks
3 or 4 drinks
◯ 5 or 6 drinks
5. How often did vou have six or more drinks on one occ

-) Never Weekly
- Less than monthly Daily or almost daily
- Monthly

Figure 2. The AUDIT-C Questionnaire

- The strength of the relationship was very weak
- No significant correlation present, r(1, 32) = .264, p = .131.
- There was an insignificant, weak positive trend.

Materials

the past year?

- Two to three times per week
- Four or more times a week

a typical day when you were drinking in the past year?

- 7 to 9 drinks
- 10 or more drinks

casion in the past year?

Results

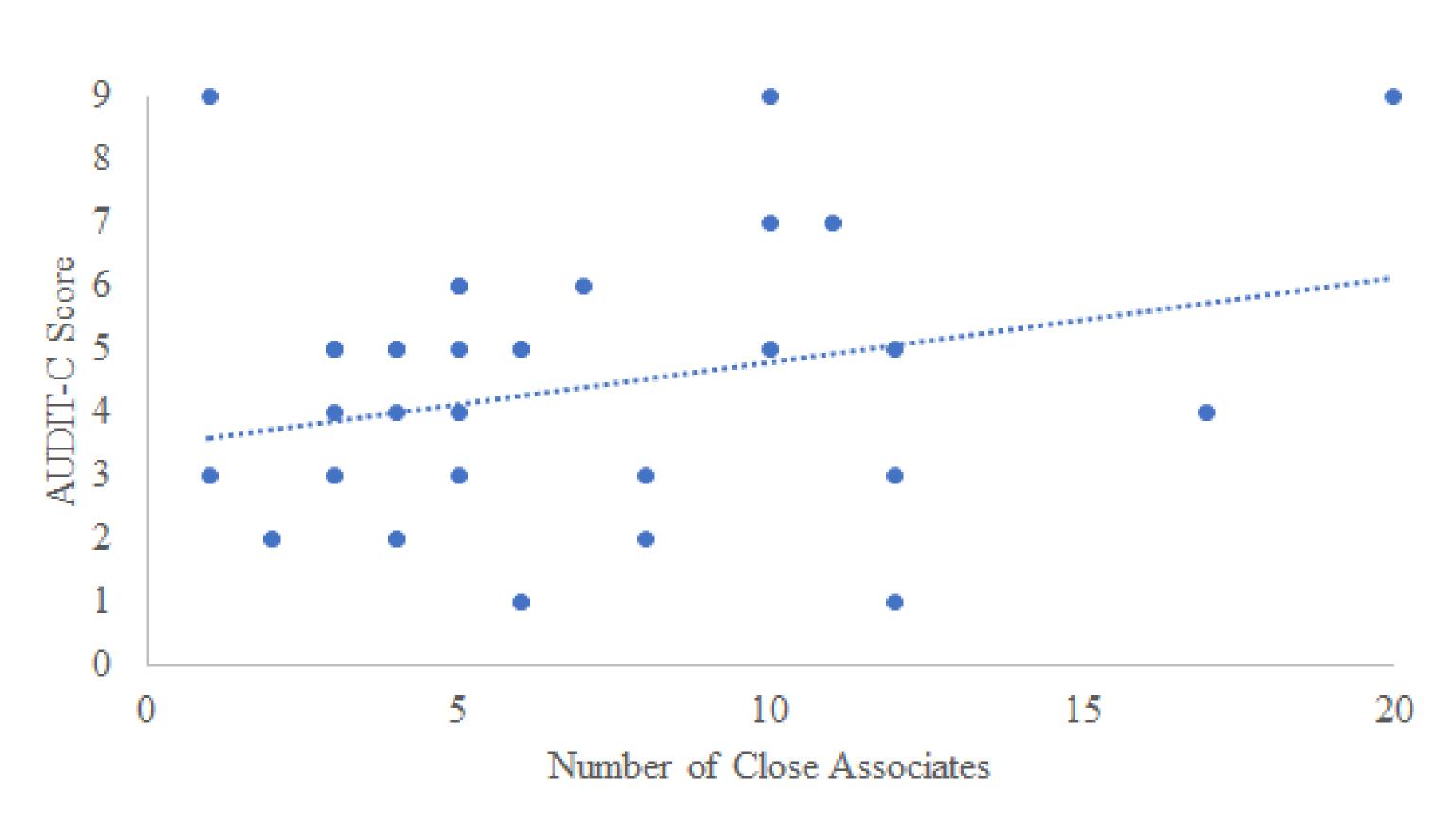


Figure 3. Correlative scatter plot including a trendline

- power (85 participants needed)
- during the pandemic
- accurate

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Discussion

• No significant correlation between social contacts and binge-drinking

• The sample size was low (40 participants) and does not contain enough

• 37.8% of the participants felt guilty about drinking alcohol specifically

• More power is needed to ensure these results are not inaccurate

• Wording needs to be needed to ensure self-reported numbers are

Conclusions

• Further research is needed to make generalizable conclusions

• There is no relationship between binge-drinking and social isolation

• People have felt stress and guilt about their habits during the pandemic

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