

Excessive Alcohol Use

Team 2:





Problem Introduction



What is our business problem?

Excessive alcohol use can have severe effects on an individual's health.

To further understand the problem:

- Analyze the effects of excessive alcohol consumption in the U.S.
- Understand the health influences and risks
- Understand how different groups and demographics' drinking habits differ



Why is it worth further research?

Purpose

- Public health purposes
- Education
- Healthcare support



How could we solve this problem?

Create a dashboard that

- Shows the relationships between demographics and drinking habits
- Visualizes overall drinking habits in the US
- Shows causes of death due to excessive drinking



Datasets Used





Datasets

- 1) **US Binge Drinking Frequency by State - CDC**
<https://www.cdc.gov/alcohol/data-stats.htm>
- 2) **Alcohol Drinking Status Among Adults (Age 18+) in the US by Selected Characteristics, 2015 to 2019 - CDC**
<https://www.cdc.gov/nchs/nhis/SHS/tables.htm>
- 3) **US Mortality Rates by Cause (Filtered for Alcohol-Related Causes), 1990 to 2020 - IHME**
<https://ghdx.healthdata.org/record/ihme-data/united-states-life-expectancy-by-state-white-black-hispanic-race-ethnicity-1990-2019>



Methods Used





Methods

- Dashboard - R and RShiny
- Data Analysis
 - Data cleaning/tidying
 - Exploratory Analysis
 - Relationships between variables
 - Understand the data tables
 - Visualizations
 - Static and Interactive
 - Clear and Digestible



Results





Results & Conclusions

- For most demographics, individuals identified most with the “Current Regular” drinking habit, followed by “Lifetime Abstainer”
- As a general trend, causes of death due to excessive alcohol use have steadily increased from 1990 to 2020



RShiny App Demo