

What Group is Most at Risk for Covid?

Potential Questions

- What age group needs to be most concerned?
- What gender is more at risk?
- Are you at higher risk in certain states?
- Should you be more concerned of pneumonia or covid?
- Should you be more concerned of influenza or covid?

Plan to Address My Questions

- Make a histogram of age vs deaths to see the distribution and find the most at risk age group. (split age variable and rerun to make it precise)
- Run a correlation test between vaccines and deaths. This will allow us to see if more vaccines has a strong connection with lowering the death rate
- Make a histogram of gender vs death. Using this we can compare the death rate of male vs females to see if one gender is more at risk.
- Find average deaths of pneumonia and flu then compare them to covid

CDC Covid Data Sets

- <https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku/data>
- <https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends>
- <https://covid.cdc.gov/covid-data-tracker/#variant-proportions>

Variables

- Age
- Total Vaccines
- Sex
- Location
- Disease
- Deaths
- Time

Packages

- Ggplot2/tidyverse

- Used for histograms
- And geom_point
- Psych (used for cluster plots/cohen.d)
- Readxl
- Purr
- Dplyr

Plots/Table/Visualization

- Histograms
 - Theme_minimal
 - Add a trend line with geom smooth
 - Geom_density for a density plot
- Cbind
 - Make new columns maybe add age groups together
- Discard
 - Remove unwanted variables