Make data work for you!

Background

A fictional medical staffing agency covering U.S. hospitals requires a retrospective data analysis study in order to gain insight for temporary healthcare worker placement among for an upcoming Influenza season.

Key Questions

- Where in the U.S. does this invisible virus cause the most deaths?
- Who among the population is likely to die?
- What can we do to save lives?

Skill & Tools

Data Profiling
Data Cleaning
Grouping and Summarizing data
Statistical Analysis
Testing Hypothesis

Data Forecasting



Multi-visualization studio including dynamic dashboards, custom story-board designs and organization.

Click links below for Tableau Dashboard Video presentations.





Data Set

CDC influenza Deaths
US Census Bureau
Influenza deaths by
age group

Goals

Every year millions of people suffer from the flu and millions more die among vulnerable populations. Some need in patient hospital stays placing a heavy burden on hospitals staff trying to keep up with this influx. Morbidity and mortality rates can be reduced if adequate staff preparations are made to care for the ill and suffering.

Data that Save Lives



The interactive Tableau U.S. Influenza death and vulnerable population heat map can help us find out where help is needed the most.

Note the an increased amount of deaths (shown by bubble size) in California, New York and Texas, where there are also increased number of vulnerable individuals (indicated by deeper color).

Using this map and what it can show us, we can save lives by allocating staff to the areas that have been the hardest hit by the influenza virus in the past.

Power in Numbers!



334,000

Estimated Deaths due to Influenza from 2010 - 2020

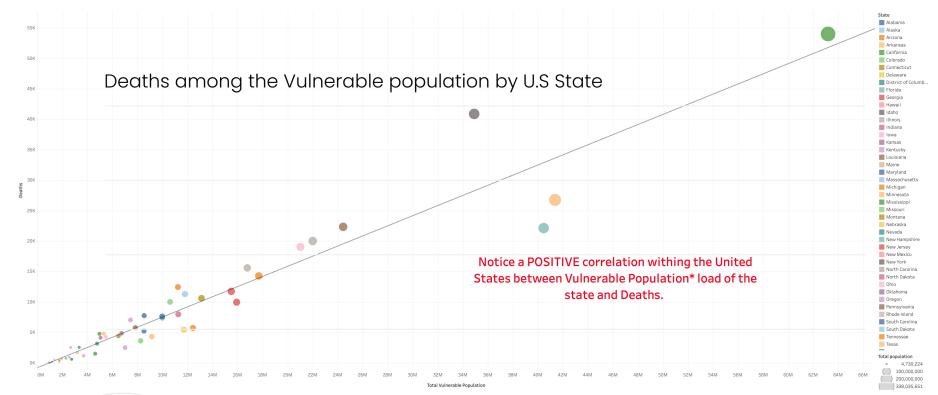
547,778,514



Vulnerable population (people more likely to die from the influenza virus) from 2010–2020



Flu related illness from 2010-2020 placing care burden on already stressed hospitals





The above scatter plot shows an positive correlation between vulnerable populations and deaths. Increased care and emphasis must be placed on individuals younger than 5 and older than 65 years of age in order to avoid more deaths resulting from the influenza virus.



DATA=POWER=CHANGE

