**Link to dashboard: https://public.tableau.com/shared/8G3P2H3WZ?:display\_count=n&:origin=viz\_share\_link**

**Link to video presentation: https://youtu.be/IFlCFatiUxY**

**General Script for Flu Planning Presentation**

Greetings to hospital administrators

Purpose of today is to go over plan for staffing for flu season and how it was developed

Go over facts from slide one for purpose

Remind them that we are concentrating on high death count areas as focal point based on CDC provided data

**Cold hard flu facts**

Introduce visual

Slider bar for the years of 2009-2017

**Top right**

Boxes represent states

Darker and larger states represent higher death count

**Top left**

Bar chart showing death count for time period selected above

You can click on each individual state and it pulls up specific metrics on that state

**Main takeaways here**

We start to get a picture that California, New York, and Texas stand out as states with the most flu deaths

**Where to focus**

While looking through the data, clear themes start to emerge

One theme I notices and decided to dive deeper in to was the correlation between 65+ population and the overall state deaths.

I found this to be a strong positive correlation between 65+ population and flu deaths in the state

Created a visual to show the percentage of deaths in the state attributed to the 65+ population

Notice that 37 of the 50 states can attribute over 50% of their deaths to the over 65 population

The visual focuses on 2017 to show the most recent data.

You can click on the bar chart and it will zoom in on the state

From this analysis I would suggest sending a higher percentage of employees to the states with higher 65+ populations

**Specifics and Planning**

Circling back, based on the positive correlation between the 65+ population size and the flu deaths I recommend an employee distribution as follows

I took the 65+ population of the US, then used each state as a portion of that whole to create a percentage.

Example- California has 10.64% of the 65+ population. This state will receive 10.64% of the available employees in the staffing agency

Florida, hosting 8.11% of the US 65+ population will receive 8.11% of the distribution.

So on and so forth based on what is shown in the bar chart

For a further visual, I divided up states based on the 2015, 2016 and 2017 data

Darker and bigger states representing those with the biggest need of staff.

Answers to number 6 from task: I also wanted to mention that I will be following up with bi weekly updates on CDC data to make sure that the plan is working. Appropriate recommendations of allocations of employees will be given based on flu death trends for each state during the flu season as a KPI.

**Closure/Data limitations**

Further addressing of question 6 from task 2.10: Before we close, I feel that it is appropriate to mention that the CDC does suppress the data that can be traced back to individuals so a small amount of estimation was used. The CDC data came from reporting hospitals thus it should be very accurate and likely unbiased.

In general this estimation was based on average deaths overall and occurred for the most part in the younger populations where there typically are not many flu deaths.

Thank you for your time today. If you have any questions please feel free to reach out to me directly for correspondence.