

Public Health

Influenza Season Staffing



Project Overview



Project Title

**Influenza Season Staffing
Analysis**



Objective

Optimise medical staffing allocation by analysing influenza mortality trends and vulnerable populations across U.S. states.



Business Context

- 📌 Flu season increases hospital demand, requiring strategic staffing.
- 📌 This project helps predict staffing needs across different states.



Data & Methodology



Data Sources

CDC – Influenza Mortality Data

U.S. Census Bureau – Population Demographics



Key Questions

- ✓ Which states have the highest vulnerable populations?
- ✓ Where is additional medical staff most needed?
- ✓ How does the 65+ population correlate with flu-related deaths?



Tools & Techniques

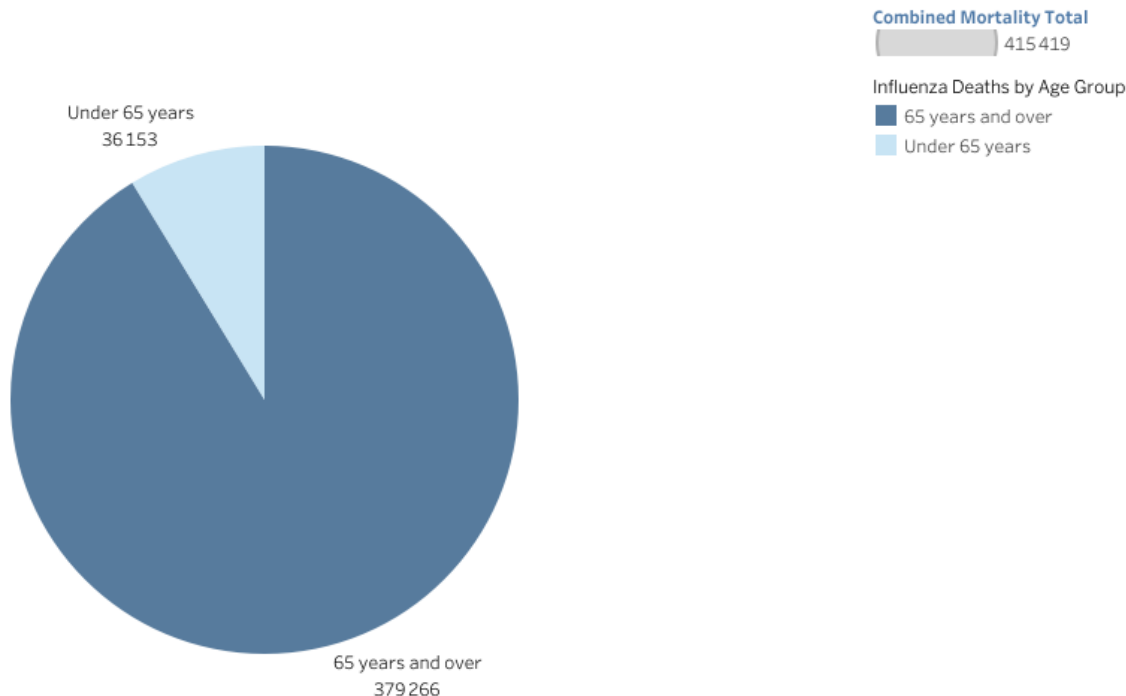
Data Cleaning & Transformation
(Excel)

Trend Analysis & Visualisation
(Tableau)



Influenza Mortality Breakdown (2009–2017)

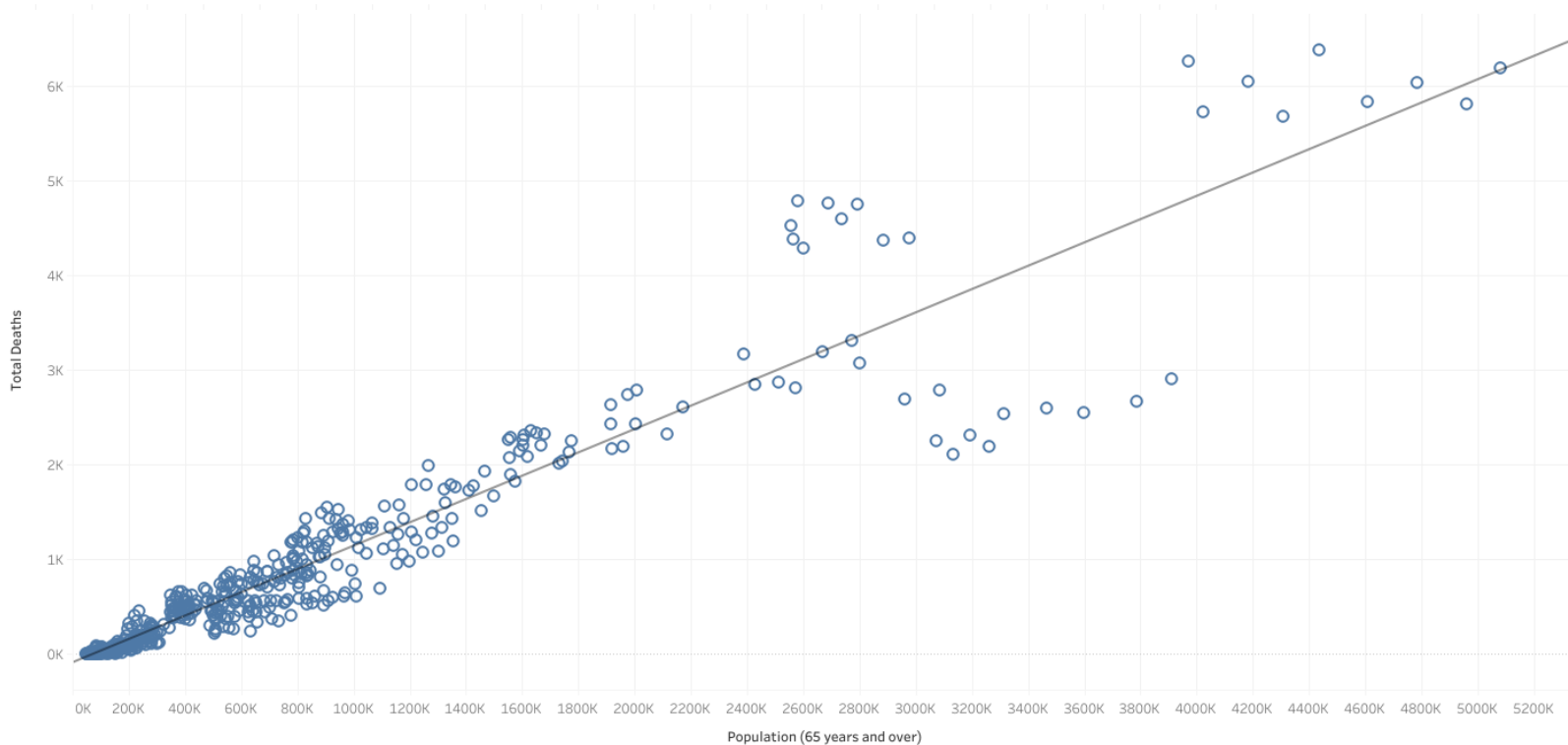
Influenza Mortality in the United States: 2009–2017



Insight: Shows overall influenza-related mortality distribution across different age groups.

Senior Population vs. Influenza-Related Deaths

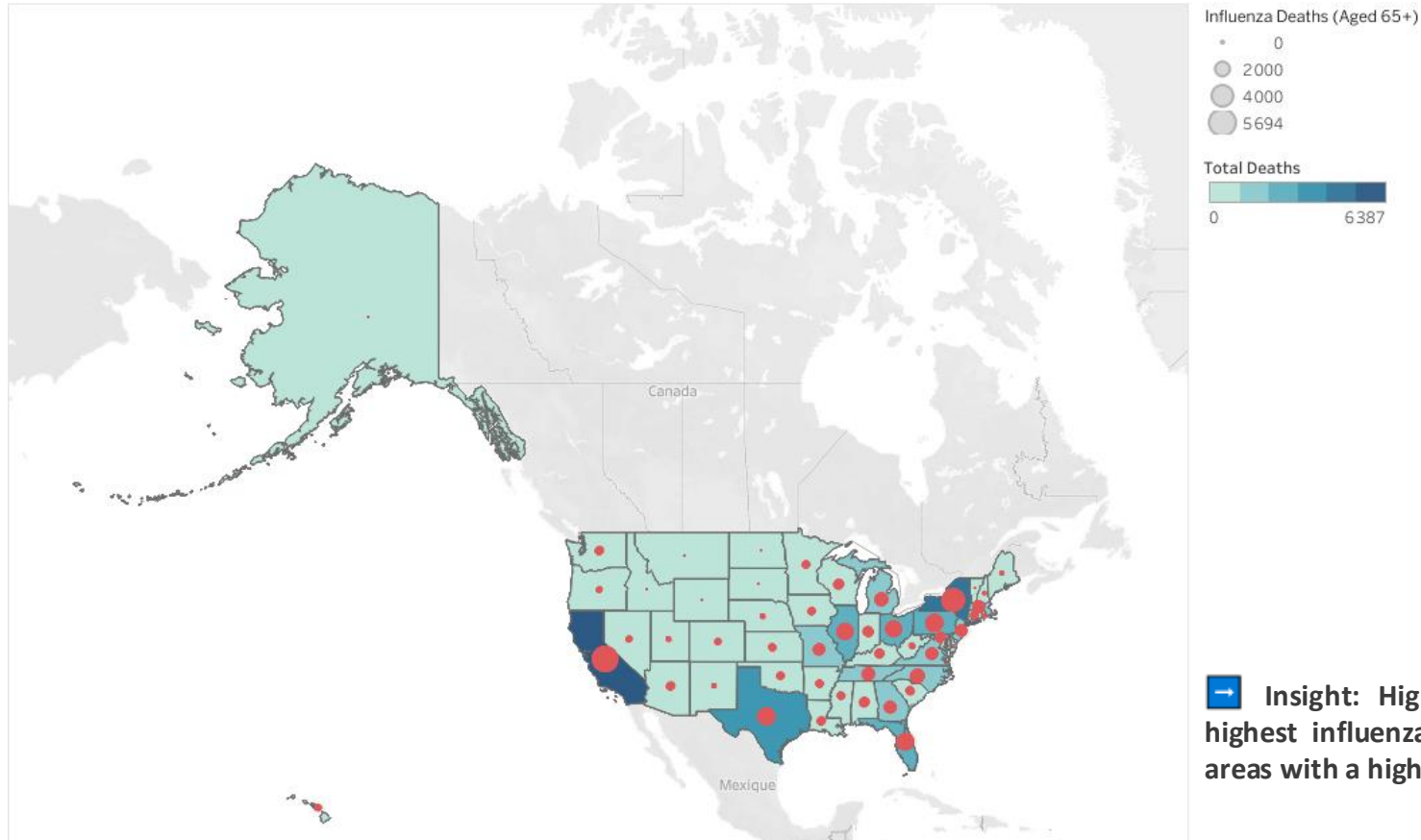
Relationship Between the Population Aged 65 and Over and Influenza-Related Deaths in the US (2009–2017)



Insight: Examines the correlation between the population aged 65+ and flu-related deaths to determine high-risk areas.

Where is Additional Medical Staff Needed?

Influenza Mortality Across the U.S. (2009–2017): Focus on Seniors Aged 65+



Insight: Highlights states with the highest influenza mortality, focusing on areas with a high senior population.

Summary of Findings and Actionable Recommendations

Key Findings:



High Mortality in Age 65+

Significant increase in influenza-related deaths among older adults.



High Mortality in Specific States

New York and similar states have the highest rates.



Annual Trends

Peak periods highlight need for focused resource allocation.

Recommendations :



Prioritize Staffing in High-Risk States

Focus additional staffing during peak flu periods.



Increase Vaccination Drives

Target vulnerable populations in high-risk states.



Update Staffing Plans Regularly

Use real-time flu data for better preparedness.

