

# RSV Distributions

By: Karson Kosek, Kiara Shannon, Morgan Escue, and  
Nargiz Shemssulldin





# Research Questions

- What United States Health and Human Services region is most heavily affected by RSV?
- What time of year is RSV the worst and does the peak time vary between regions?
- Do different demographics affect RSV hospitalization rates?

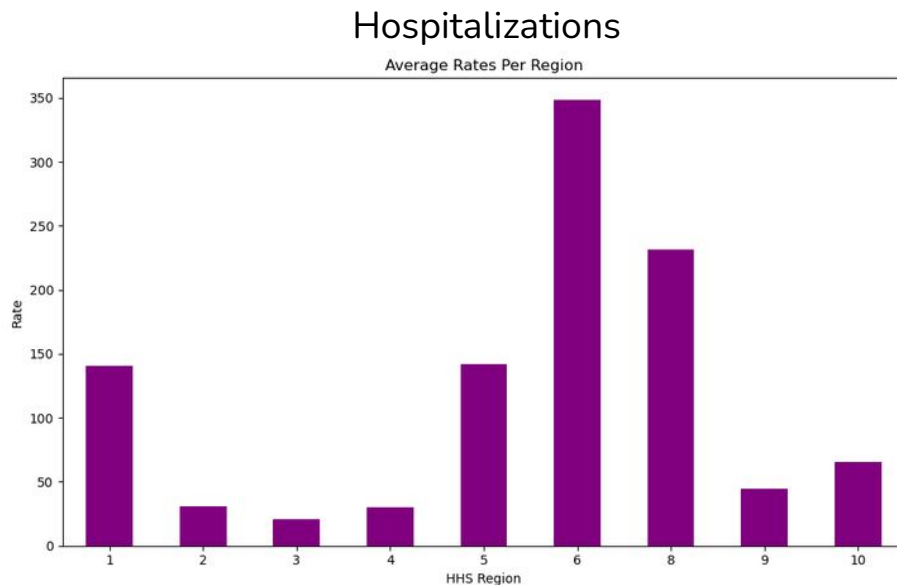
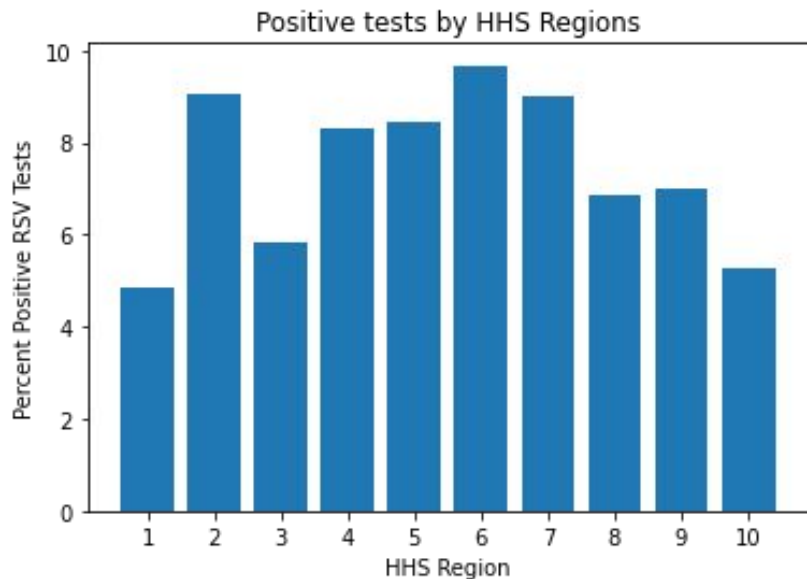


# Obtaining and Cleaning Up the Data



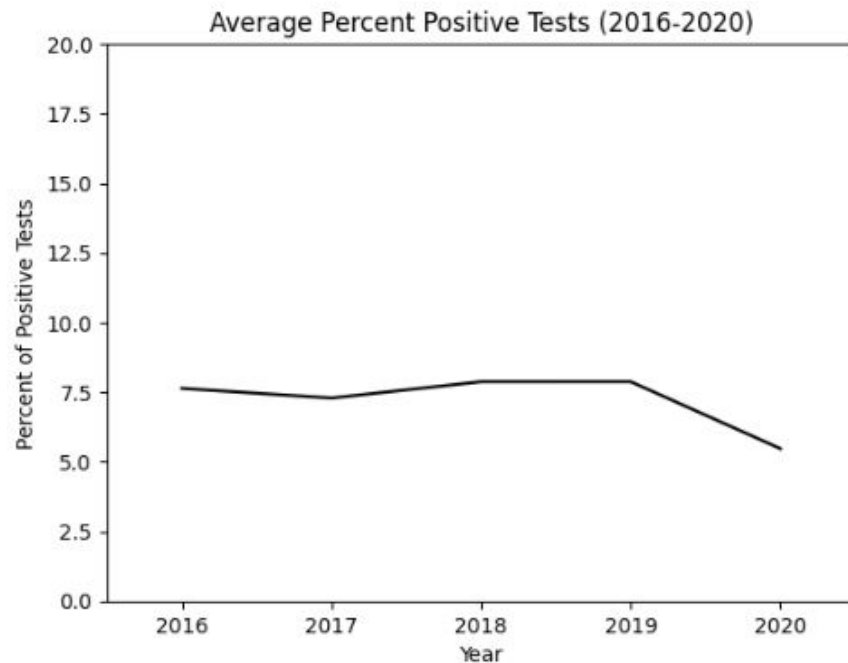
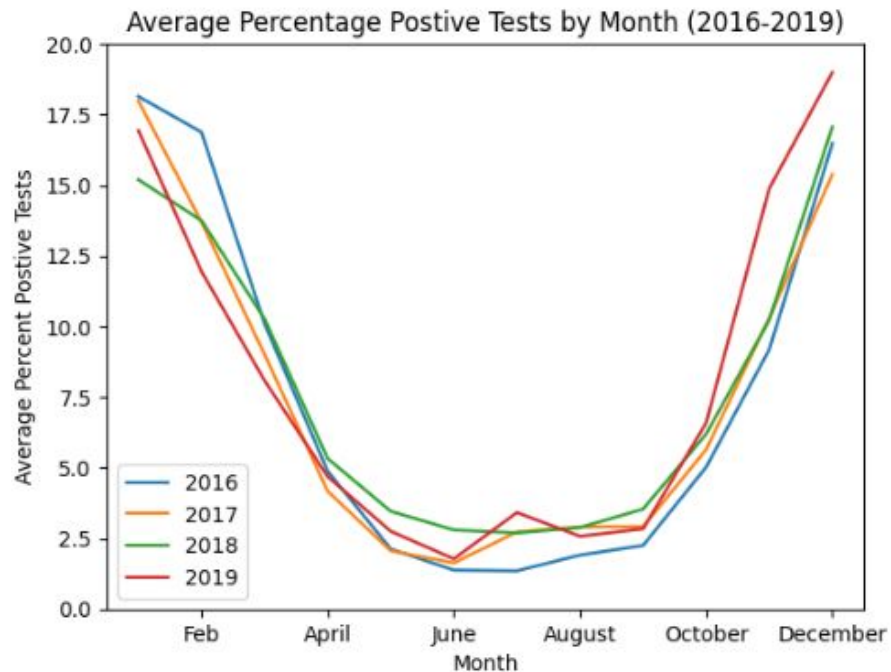


# Health and Human Services Regions





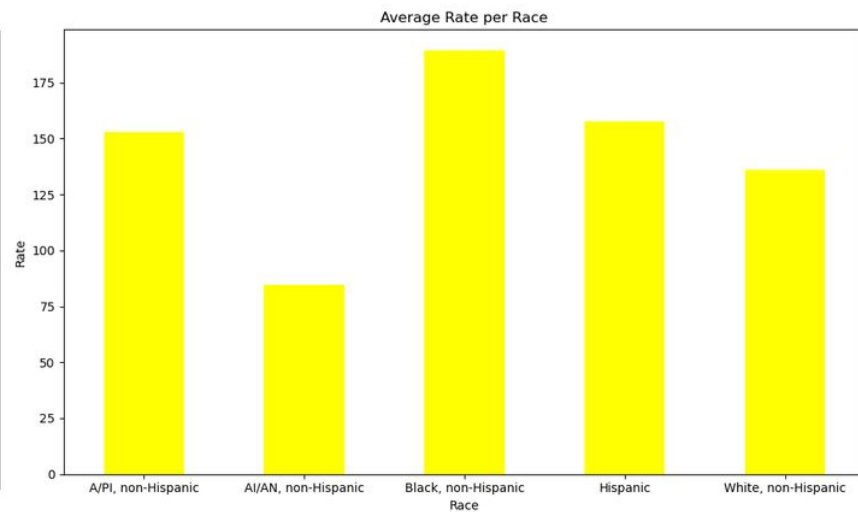
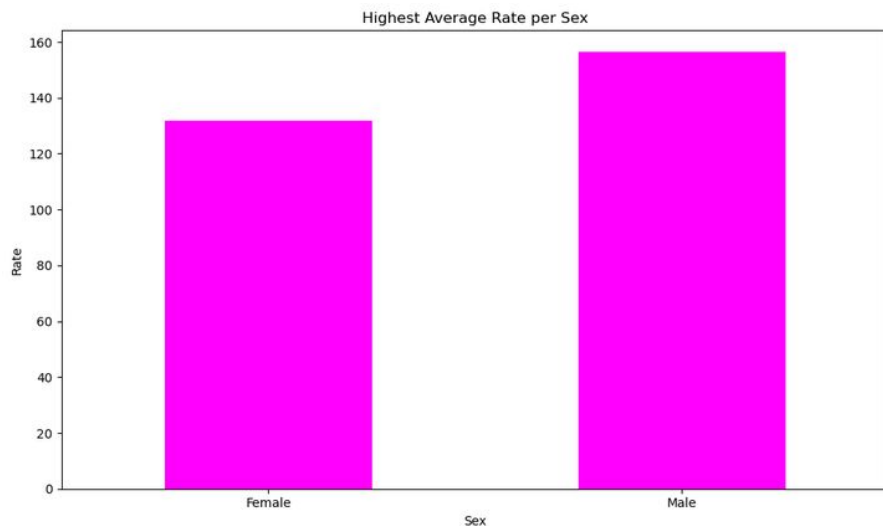
# Date & Time



\*Potential limitation: We only have 6 months of data in 2020.



# Hospitalizations by Sex and Race





# Conclusions

- Spikes in RSV correlate with colder months, and higher numbers are seen from October-February in most years
- RSV spikes more in the south-central United States, as well as hospitalizations related to RSV.
- There is a tendency of more hospitalizations in males, potentially due to infant males having smaller airways than females.
- Future work: Linear regression and other methods to examine the correlation and causation between RSV, location and weather.