

COVID-19: Unveiling disparities in healthcare

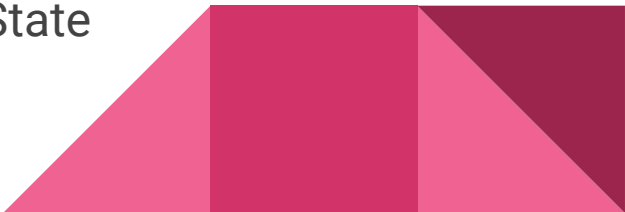
By Nowlan Savage, Gabe Stuhr, Whitney White, and Kevin Schram

Discrepancies in Healthcare

- Motivation: The COVID-19 Pandemic has been an unprecedented event
- General question: What are the differences for COVID-19 infection rates in the US?
- Core questions
 - Why are different races impacted differently by COVID-19?
 - Is the Poverty rate a contributing factor for higher infection of COVID-19?
 - Does access to healthcare have an impact on COVID-19 infection rates?
 - What are the ratings in the hospitals during COVID-19?



Data Sources

- Source | Format | What it contained
 - The COVID Tracking Project | CSV | COVID-19 infections and deaths by state, race, and ethnicity
 - US Census | API | Populations and poverty by race and ethnicity
 - NY-Times covid 19 data github | CSV | COVID-19 infections by county
 - Google | API | State latitude and longitude
 - Covidcaremap | CSV | US healthcare capacity county
 - National Center for Health Statistics | CSV | Medicaid Access Rates
 - Kaiser Family Foundation | CSV | Uninsured Rate by State
- 

Data Clean Up and Analysis

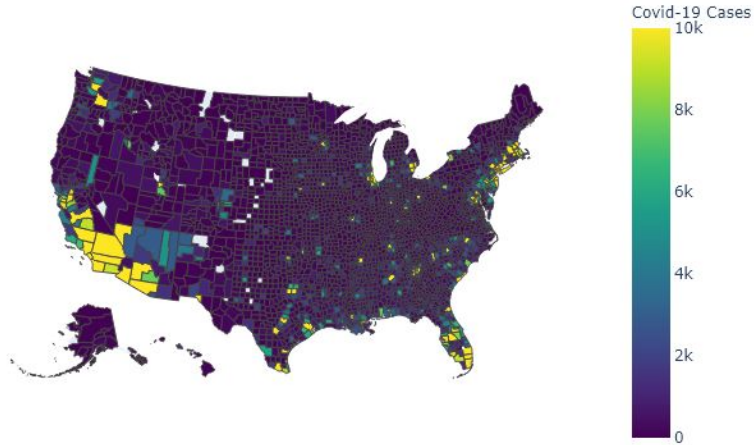


Is the poverty rate the driving
factor for higher COVID-19
infections?

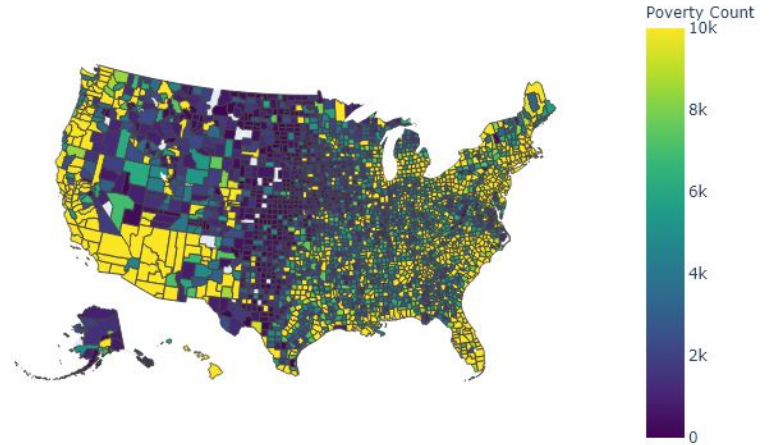


COVID-19 Infections and Population Under Poverty Line

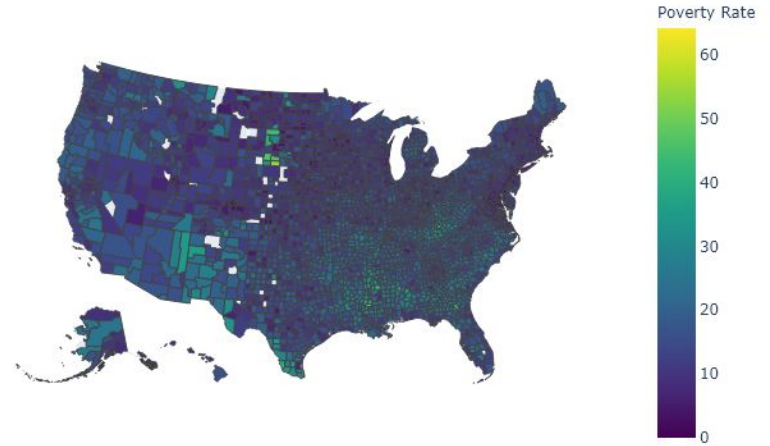
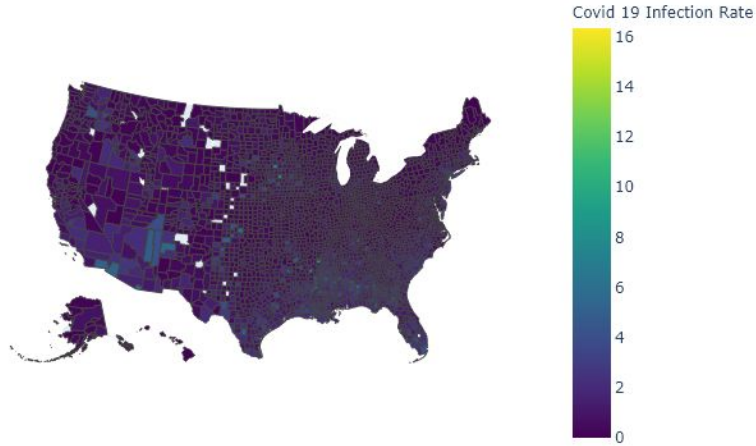
COVID-19 Cases



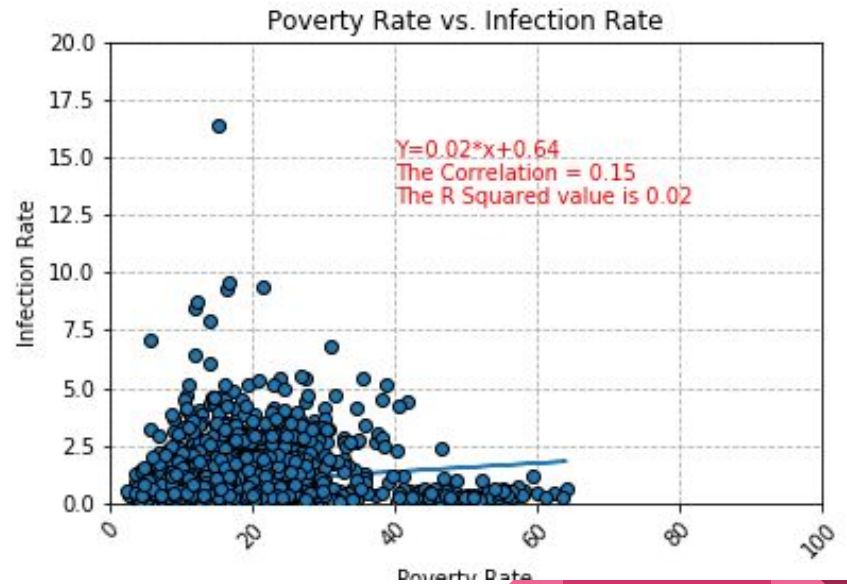
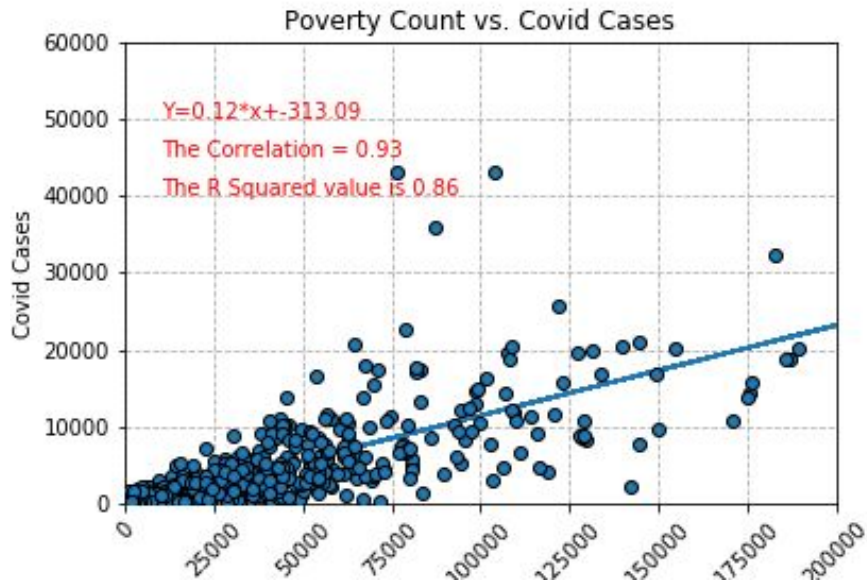
People Under Poverty line



COVID-19 Infection Rate and US Poverty Rate



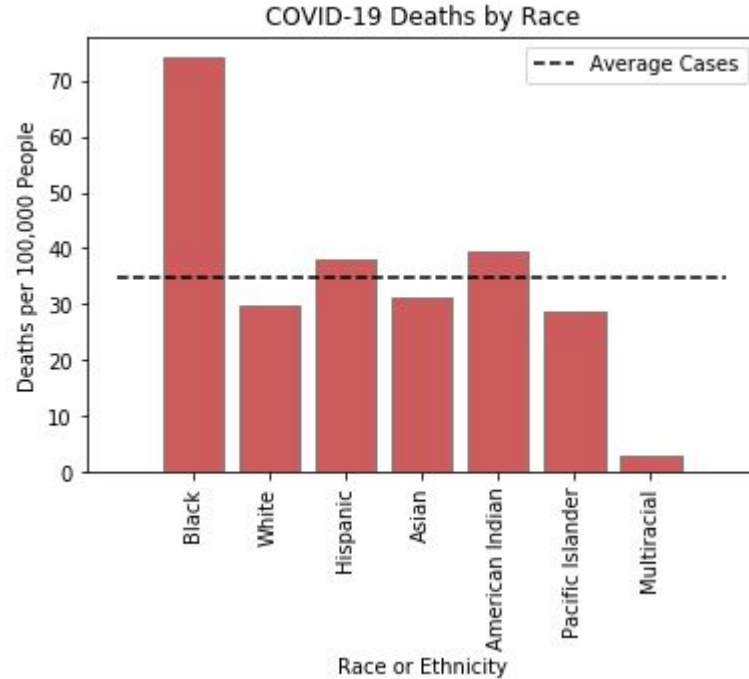
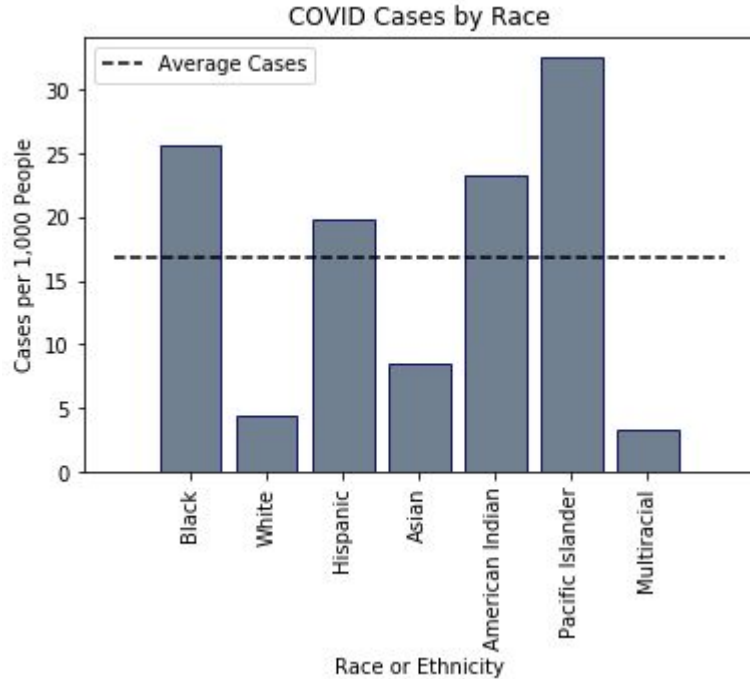
COVID-19 Cases Related to Poverty



Why are different races
impacted differently by
COVID-19?

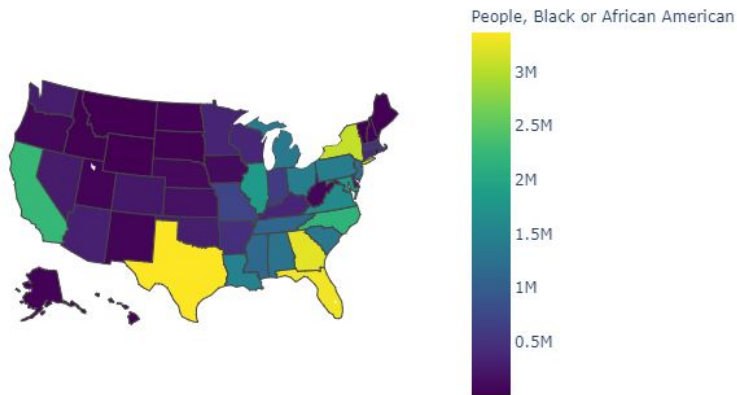


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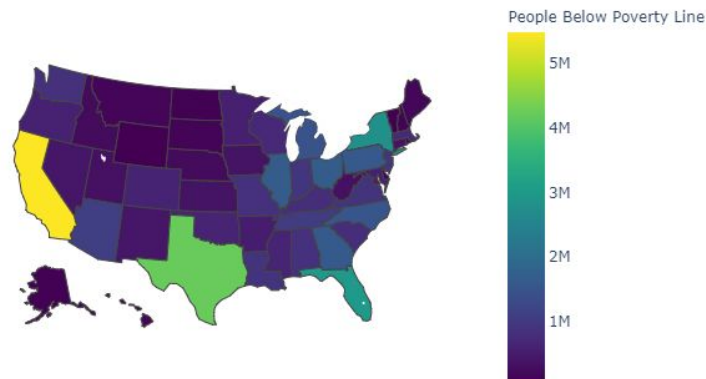


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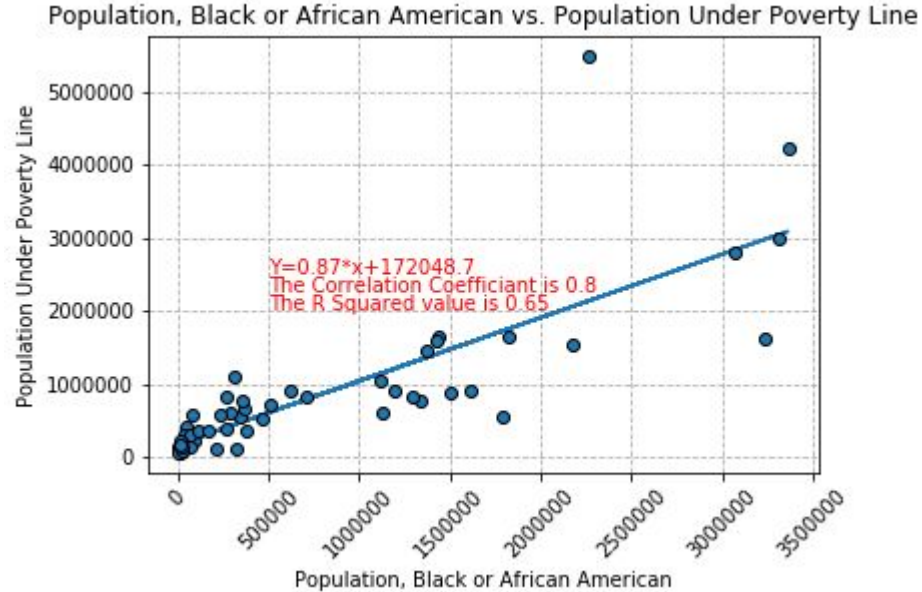
Population, Black or African American



Poverty Across the US



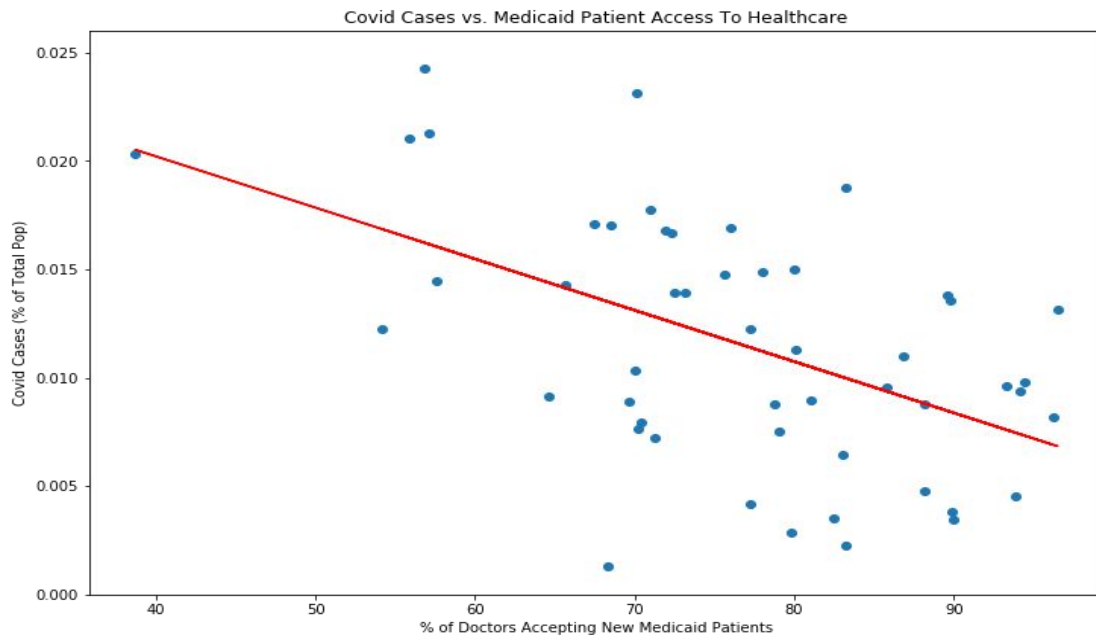
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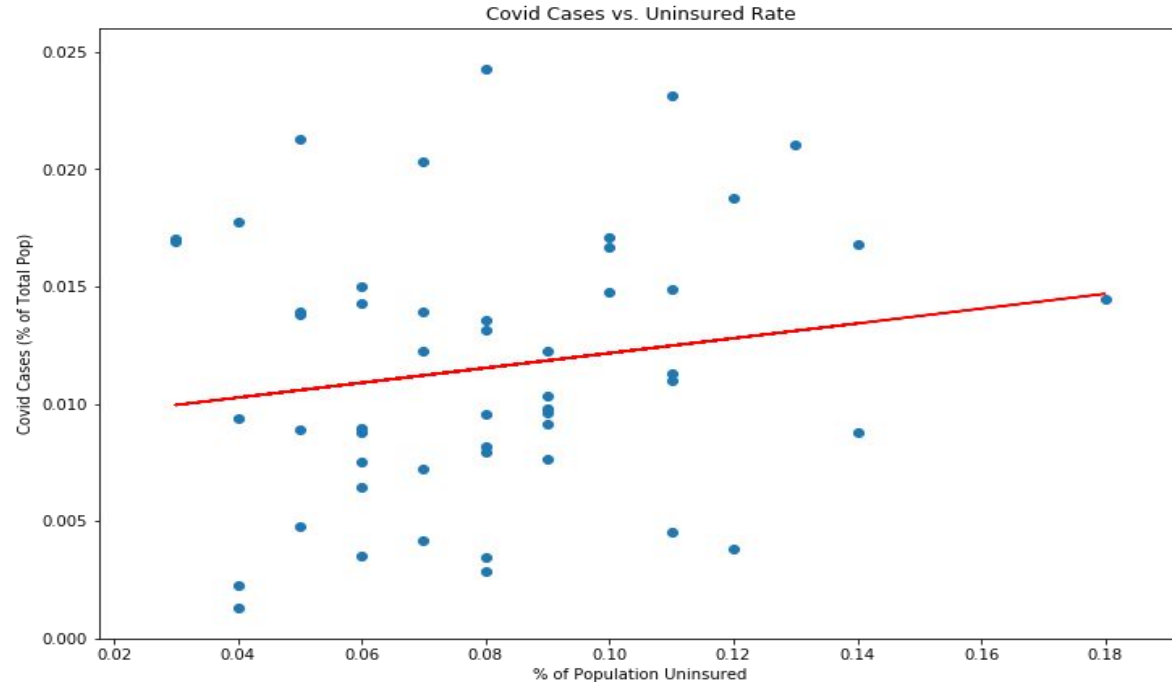
Does access to healthcare have
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infection rates?



Does access to Medicaid have an effect on COVID-19 rates?



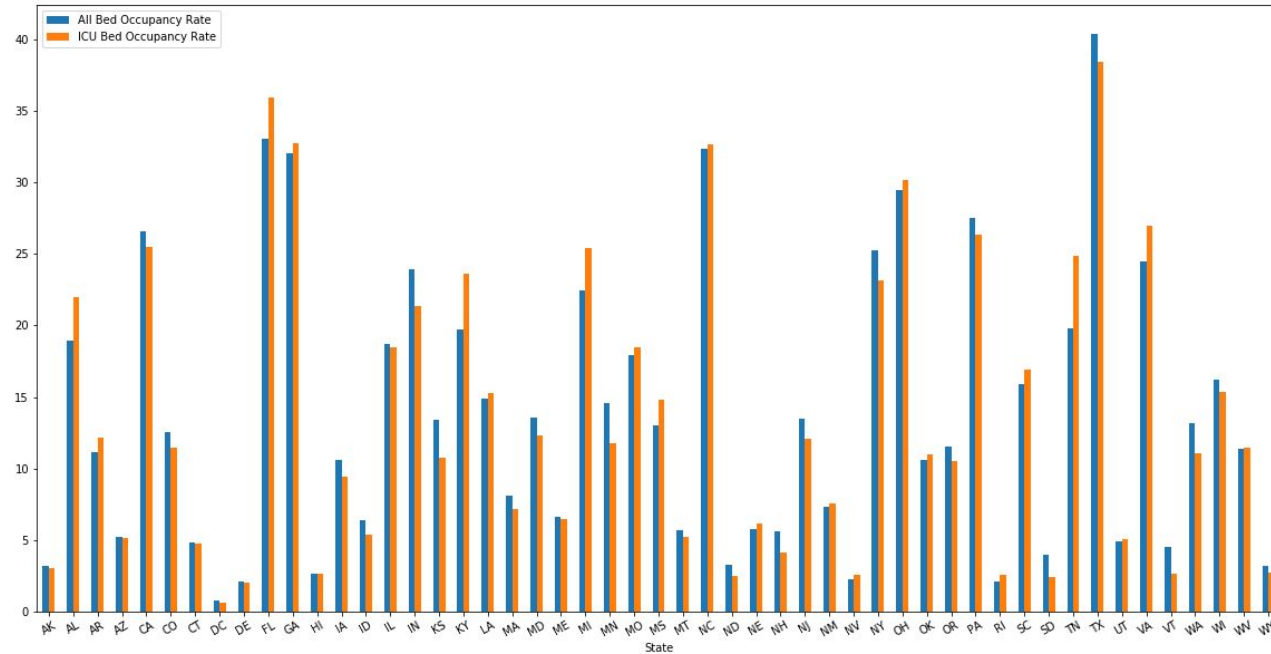
Does access to health insurance have an effect on COVID-19 rates?



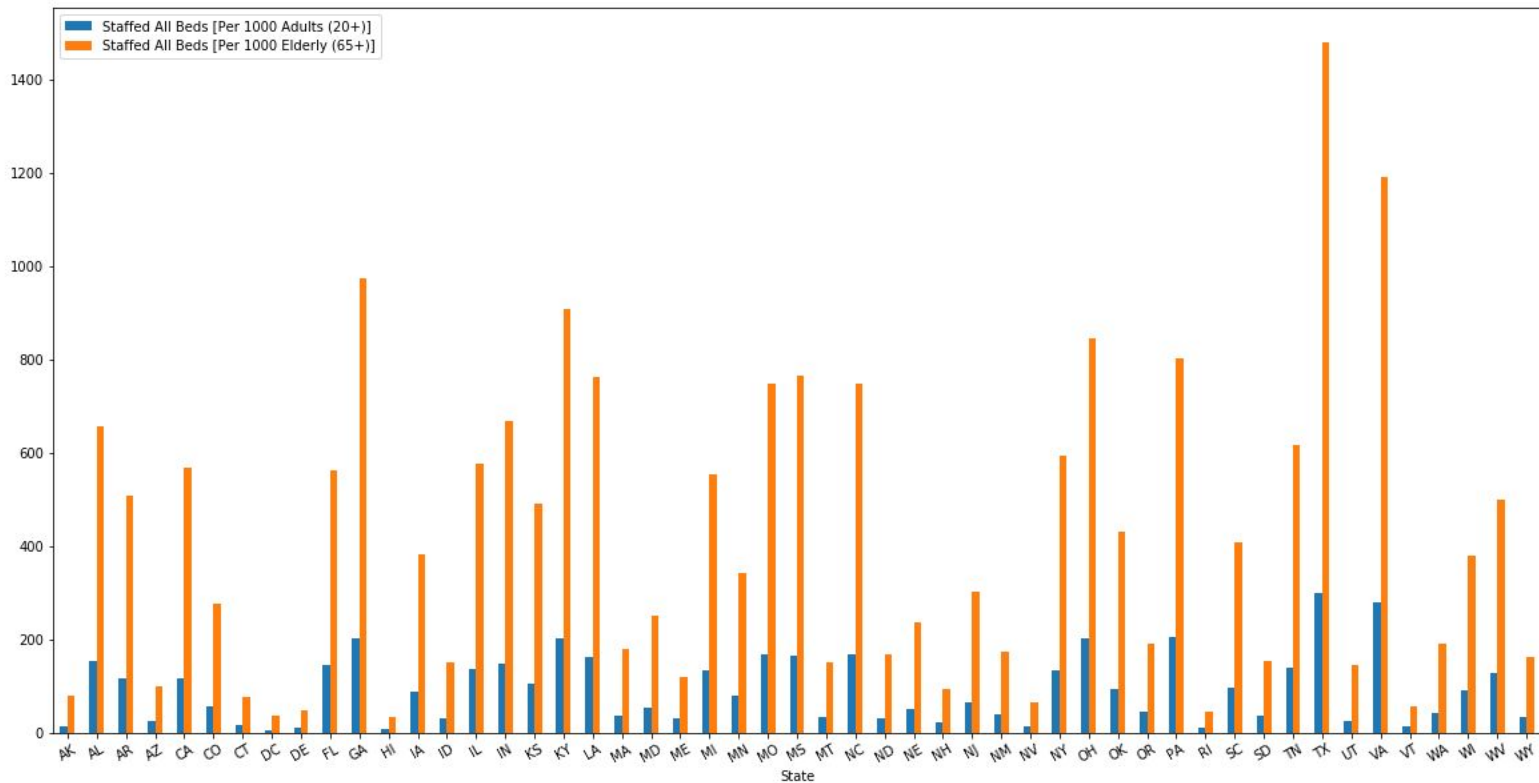
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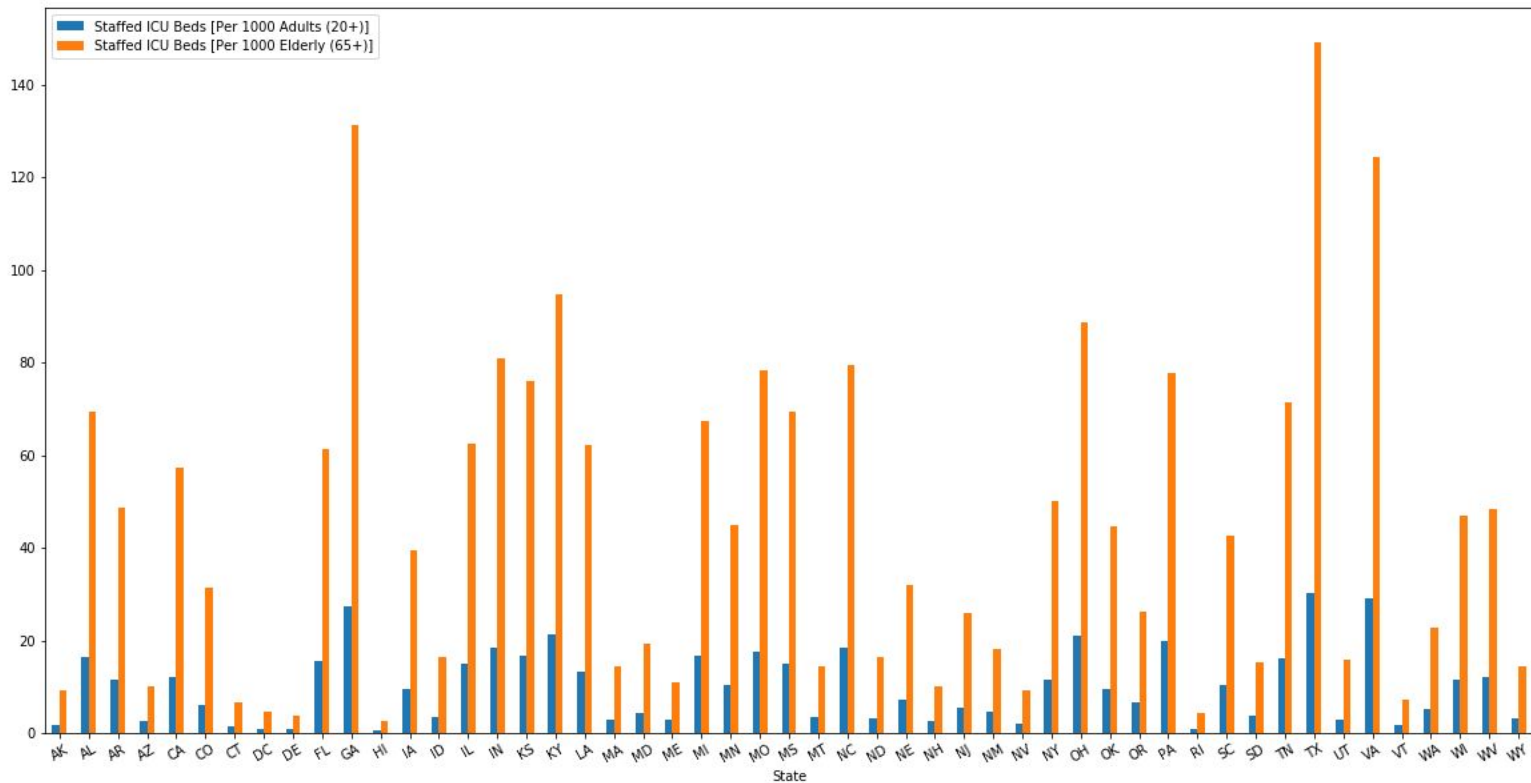
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Conclusions and Implications

- Conclusions

- Minority populations have a greater risk to COVID-19 infection
- The discrepancy in minority populations infection rates being much higher than the average may be connected to the disproportionate distribution of poverty among minority populations
- There is a slight correlation between less access to health insurance or Medicaid and higher COVID-19 infection rates

- Implications

- Those in poverty are working “at-risk” jobs making them more susceptible to COVID-19 infections
- Minority populations are inherently at risk due to uneven share the poverty distribution

