

STA 472 2.0 Special Topics in Statistics

Sadrushi Dissanayake (AS2018346)

Analysis of COVID-19 pandemic for USA

Figure 1: Top 10 countries by number of reported COVID-19 deaths as of August 16, 2021

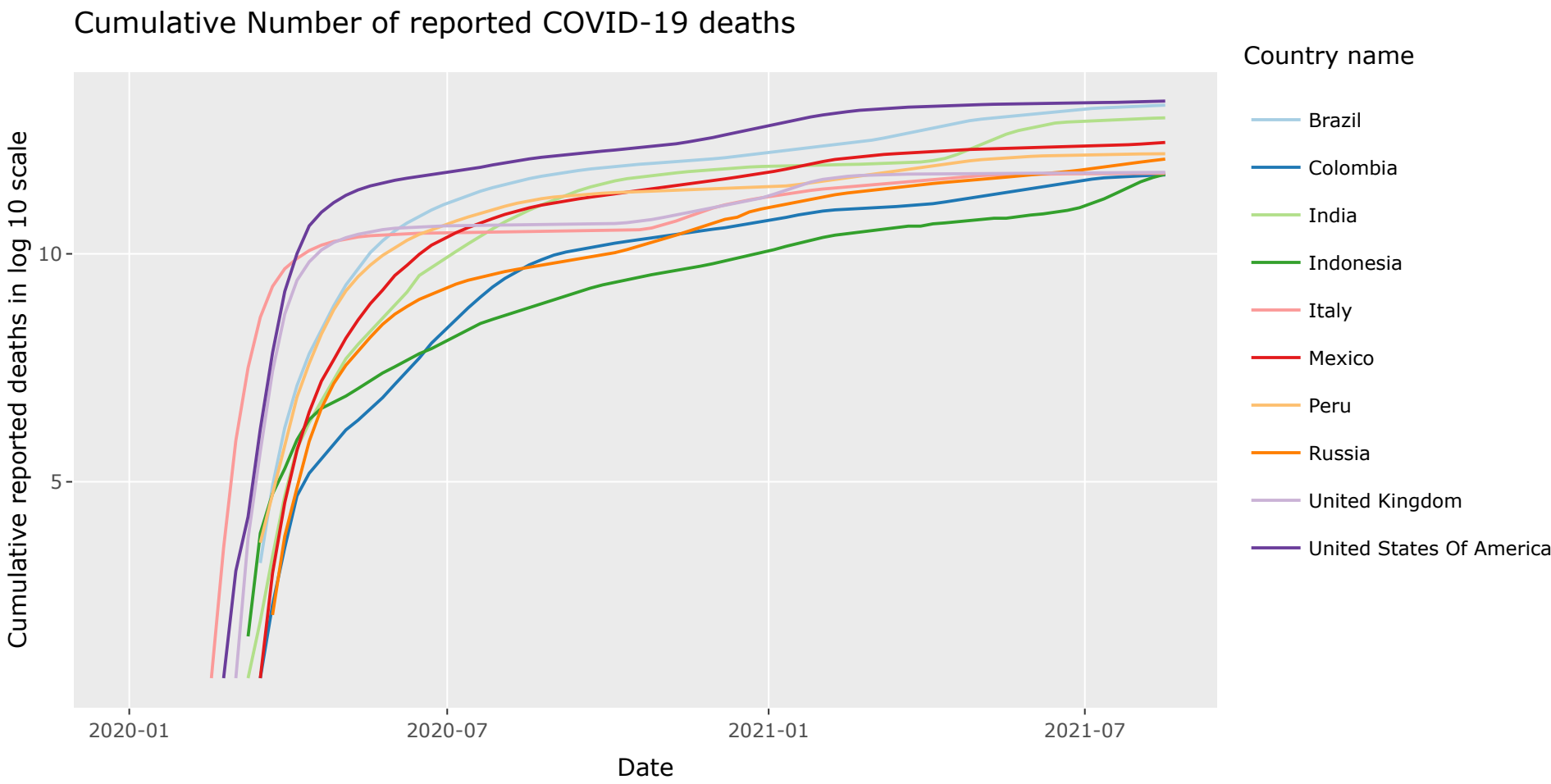


Figure 1 depicts the top 10 countries which have reported highest number of covid deaths as of 16th August 2021. Out of the top countries United States reported the highest number of death cases while Brazil and India reported second and third highest cumulative number of death cases. When compared to other countries lower number of deaths were reported for United Kingdom, Italy, Indonesia and Colombia.

Figure 2: Total COVID-19 related hospitalizations for USA by Hispanic/Non-Hispanic ethnicity and state

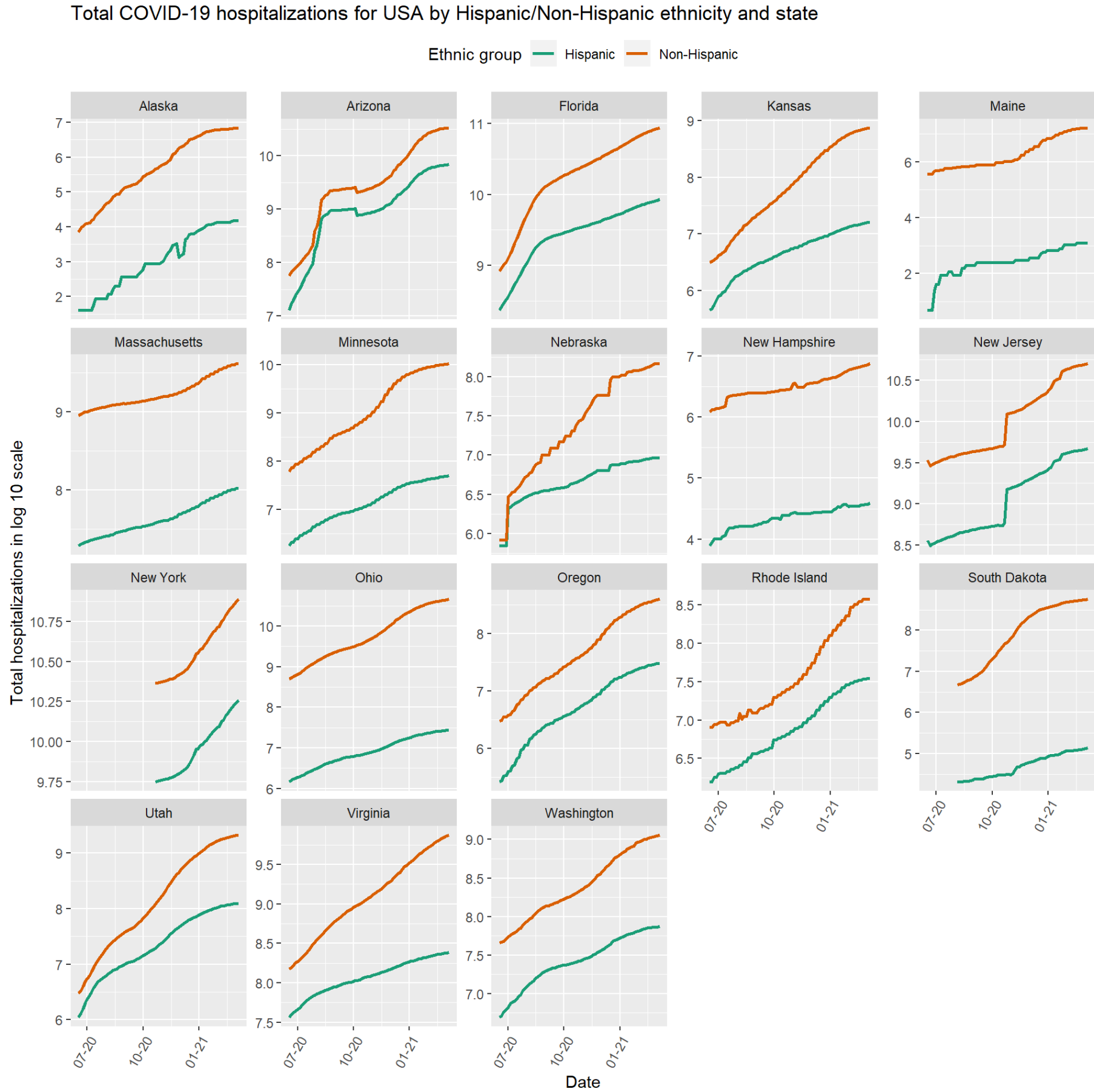
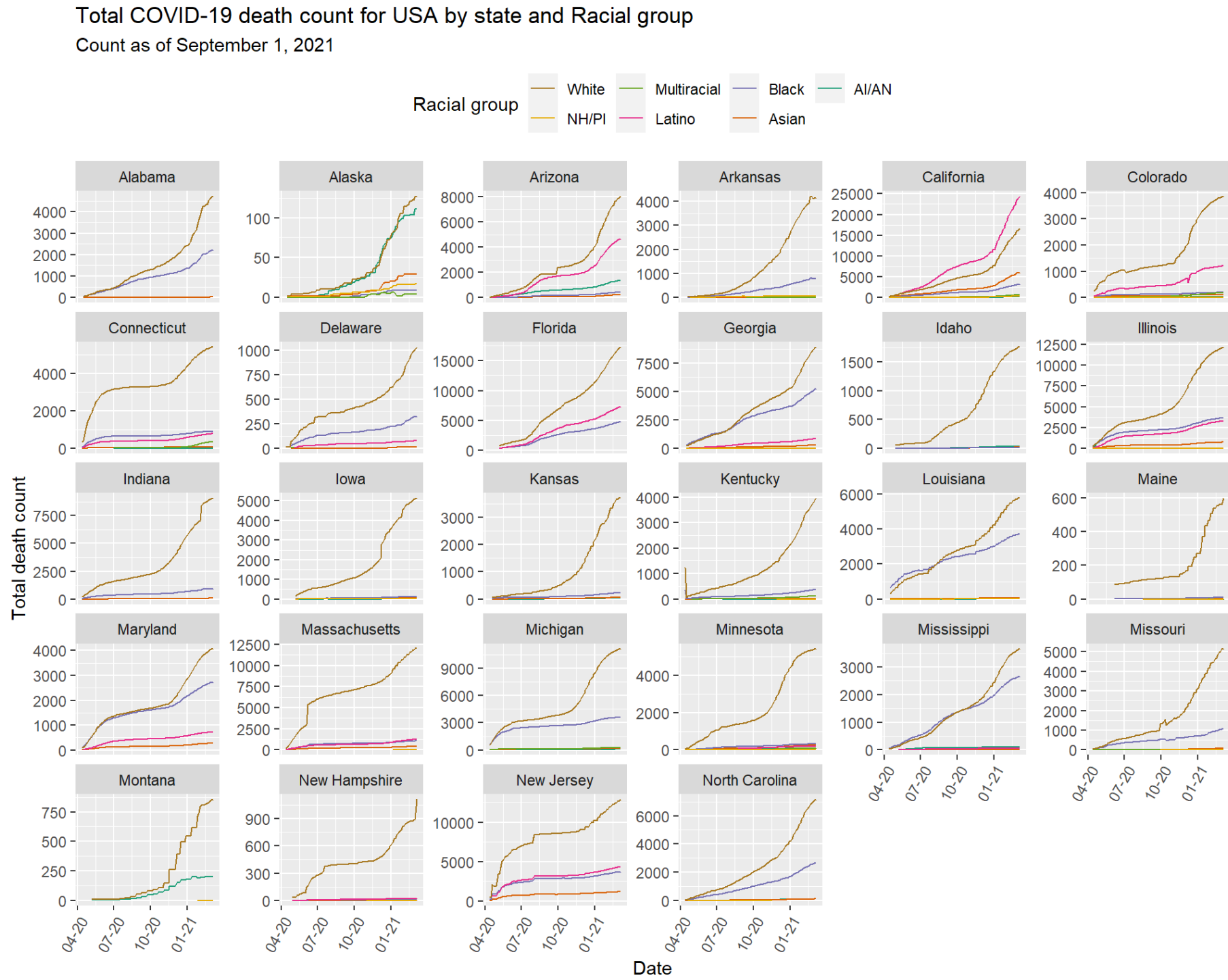


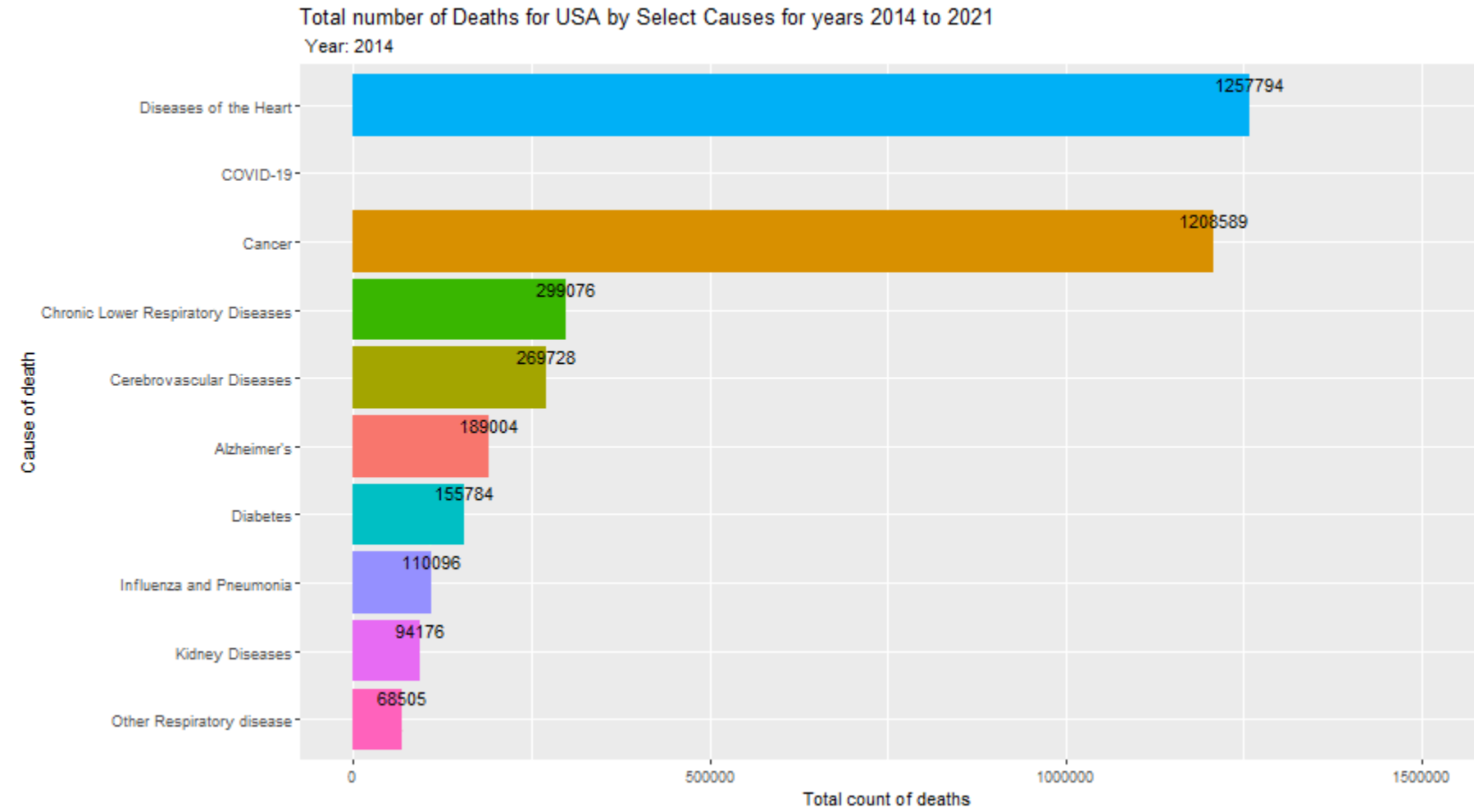
Figure 3 represents that there is a significant difference between non hispanic and hispanic ethic groups for number of covid-19 hospitalizations for almost all the states. However total number of hospitalizations for Arizona and New Mexico shows a smaller difference for non hispanic and hispanic ethnic groups than other states. According to the figure non hispanic ethnic group reported the highest number of hospitalizations across all the States.

Figure 3: COVID-19 death cases for United States by state and racial group



According to figure 3 white people had the highest total corona death cases for almost all the states. In Alaska covid deaths were nearly same for white people and American Indian or Alaska Native (AI/AN) for time between July 2020 and January 2021. In contrast California reported highest number of total covid-19 deaths for Latino people than white people. Hence when compared across America majority of white people lost many lives because of covid-19.

Figure 4: How different causes of deaths in United States change over year 2014 to 2021



According to figure 4, cancer and heart disease were the most common causes for deaths in USA for years 2014 to 2019. There is a significant rise in death cases caused by corona virus for the year 2020, however in the year 2021 the total number of death cases for covid-19 was decreased to 901,876. This can be due to lockdowns and vaccinations. Even though the covid death cases decreased in 2021, it had the highest number of cases than other causes of deaths. Hence according to data corona virus had major impact on deaths in United States than other causes for years 2020 and 2021.

References:

State Abbreviations for the 50 US States