Covid-19 in India

By: Suhas Suvarna

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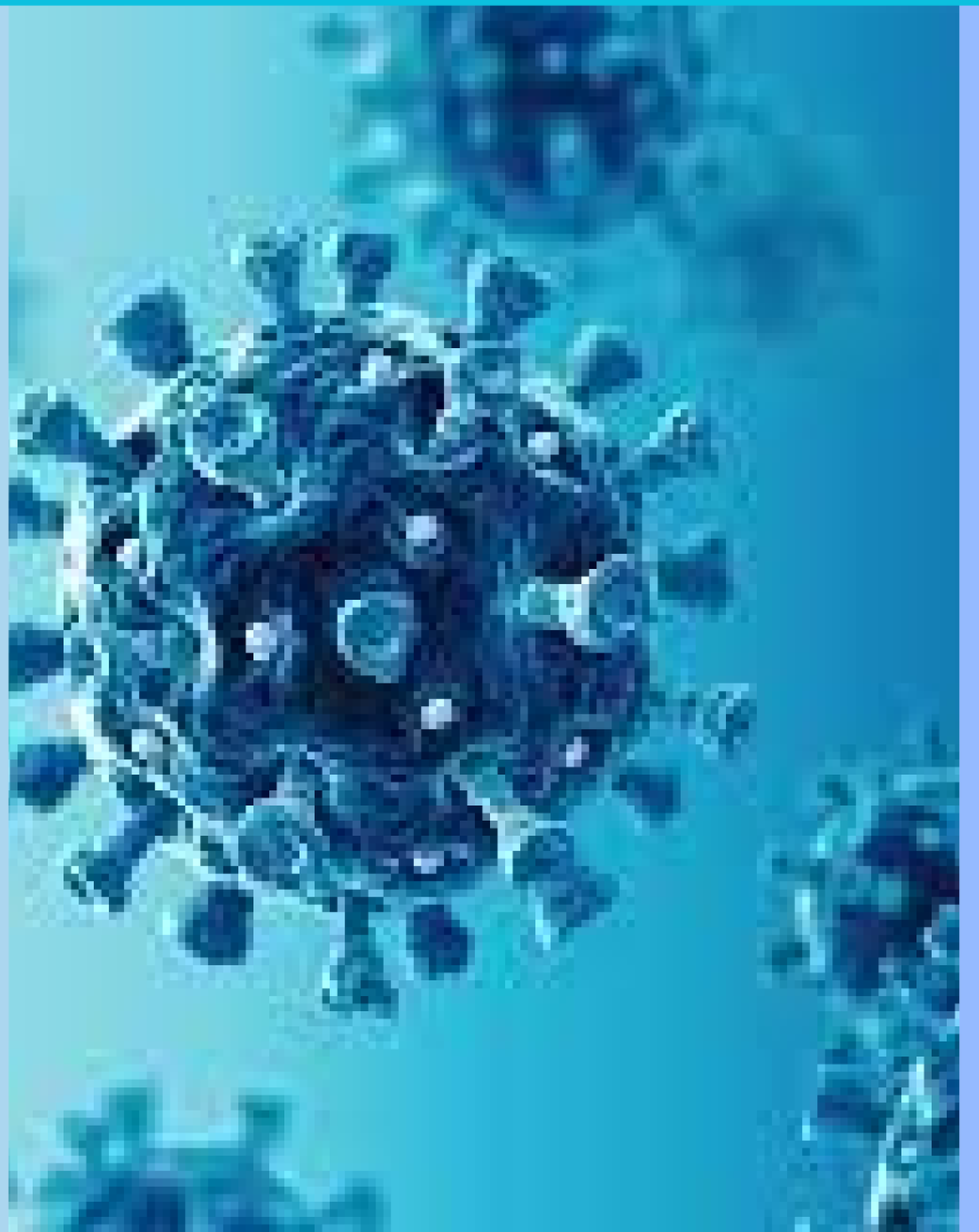


Introduction

- Coronaviruses are a large family of viruses, some cause illness in humans, and others cause illness in animals, such as bats, camels, and civets.

- Human coronaviruses cause mild illness, such as the common cold

- Severe acute respiratory syndrome (SARS) is a viral respiratory illness caused by coronavirus, called SARS-associated coronavirus (SARS-CoV)

- The COVID-19 pandemic struck India in 2020 and has continued to ravage the nation since. The SARS-CoV-2 virus, responsible for COVID-19, is known to mutate over time and in response to its environment, leading to the emergence of several variants of the virus.

- In an effort to combat the spread of the disease, India launched the world's largest vaccination campaign, providing its citizens with two doses of vaccines.

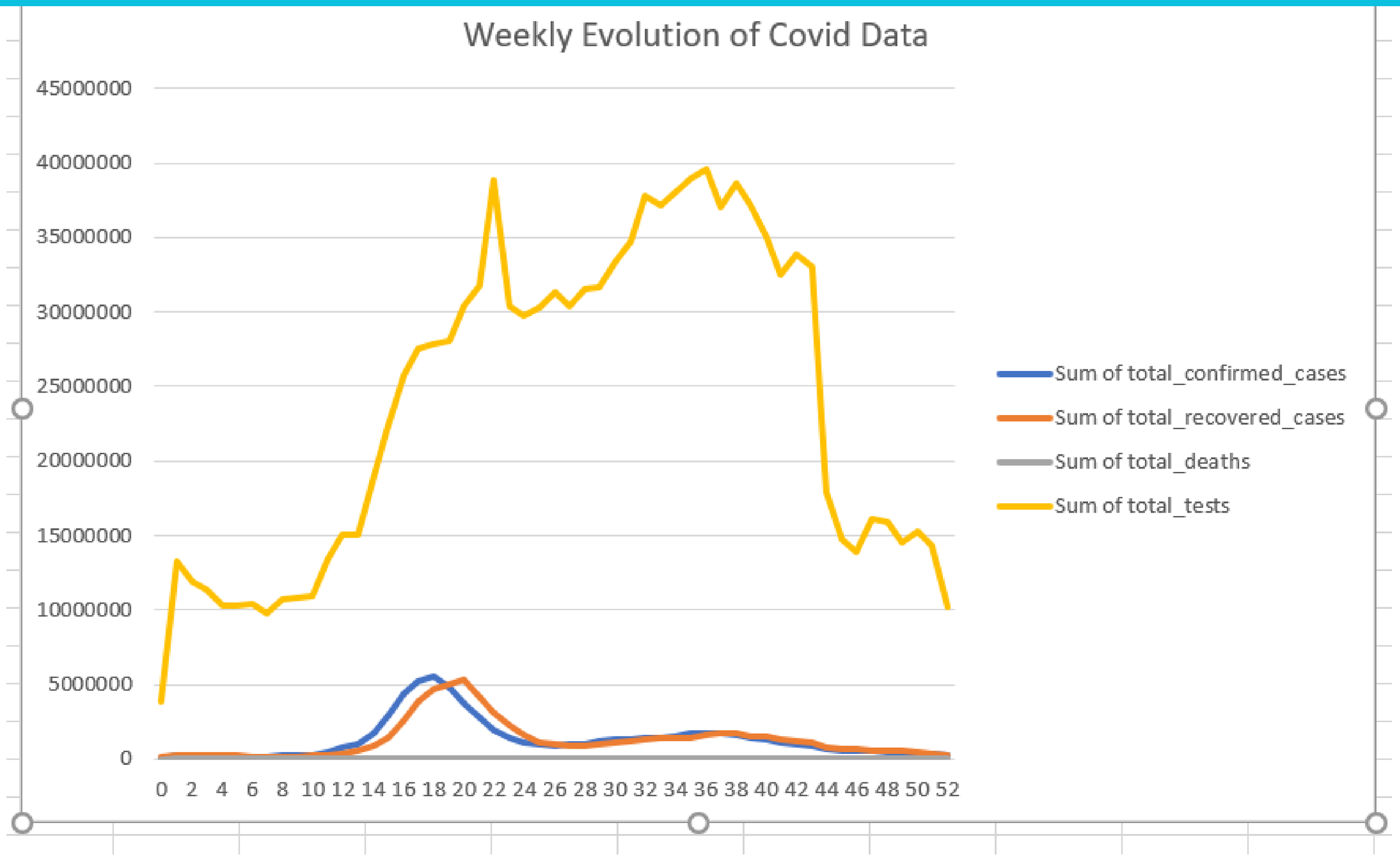
- To better understand the impact of COVID-19 in India, we analyzed data spanning from March 26, 2020 to October 31st, 2021.

- The data provides insights into the number of cases, deaths, recoveries, and vaccination rates in the country. By analyzing this data, we can gain a better understanding of the magnitude of the pandemic and the effectiveness of the measures taken to mitigate its spread.

Data Cleaning and Web Scrapping

Step 1	Step 2	Step 3
Fetching the data from JSON data file and time-series file. Making the data normalised	Performing Data Arrangements using Excel Formulas and data cleaning using Python Language.	Extracting the datescodes and state to analyse the vaccination, performed, recovered and tested numbers and dates using SQL

Weekly evolution of number of confirmed cases, recovered cases, deaths, tests.



Testing ratio(tr) = (number of tests done) / (population)`

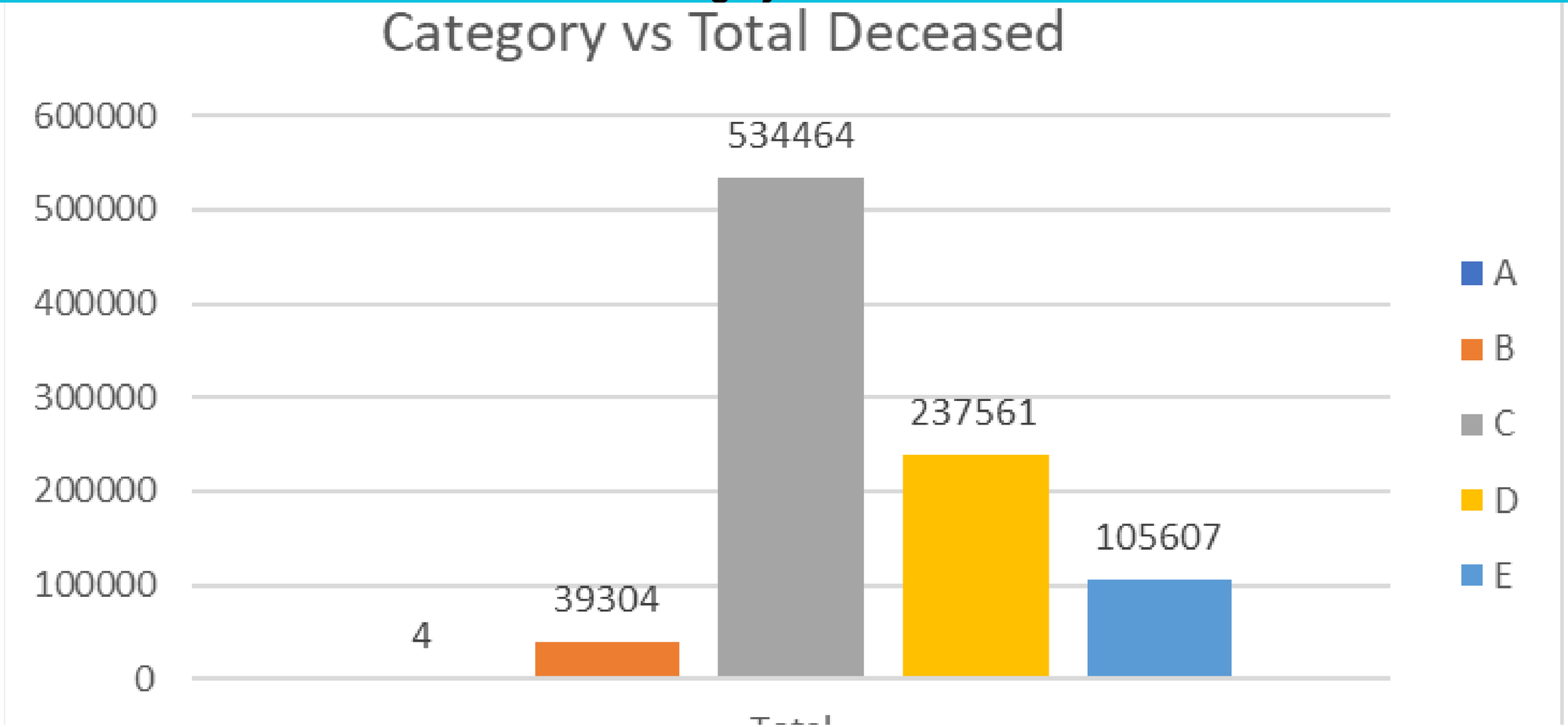
- Category A: 0.05 ≤ tr ≤ 0.1

- Category B: 0.1 < tr ≤ 0.3

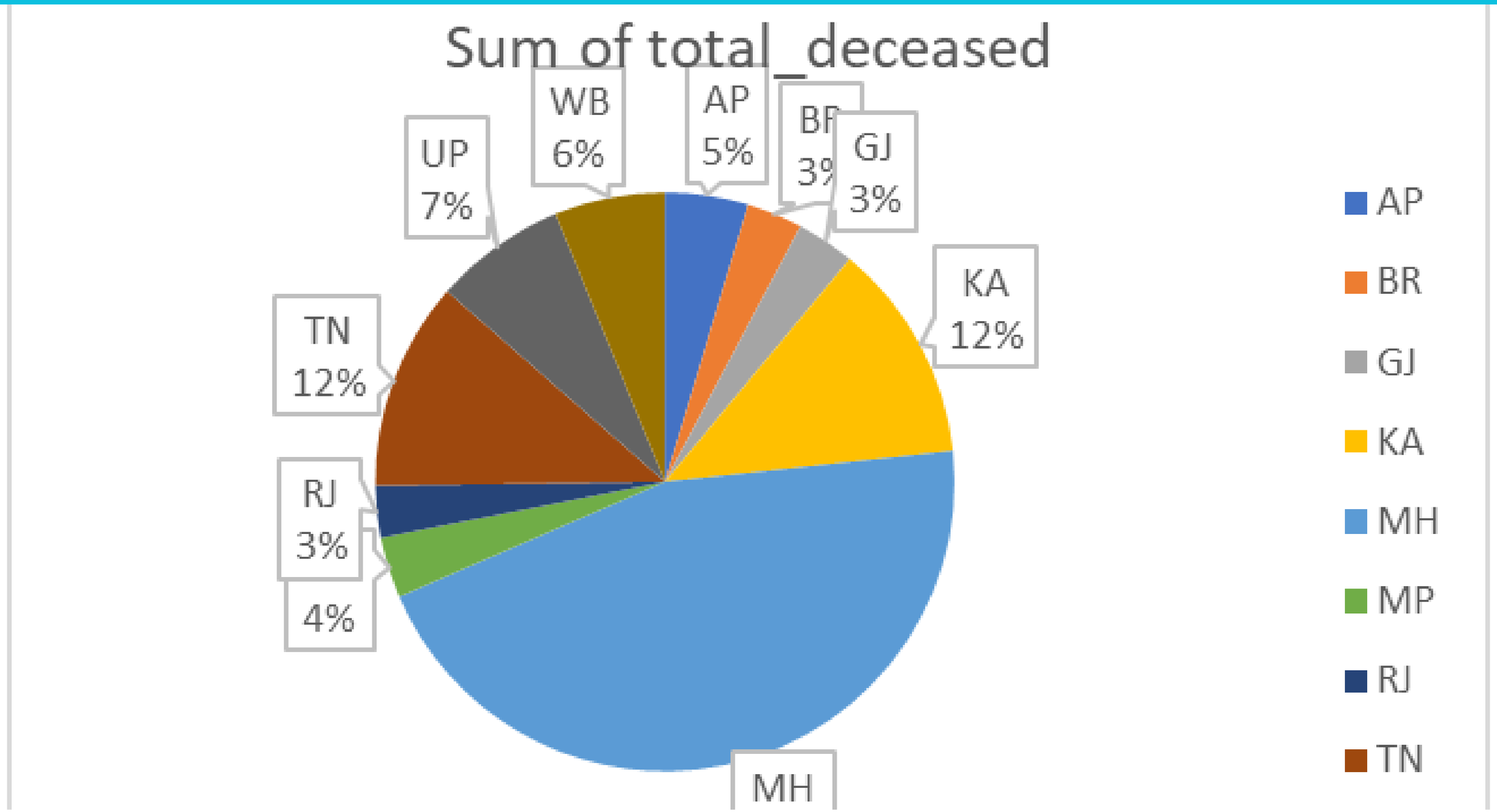
- Category C: 0.3 < tr ≤ 0.5

- Category D: 0.5 < tr ≤ 0.75

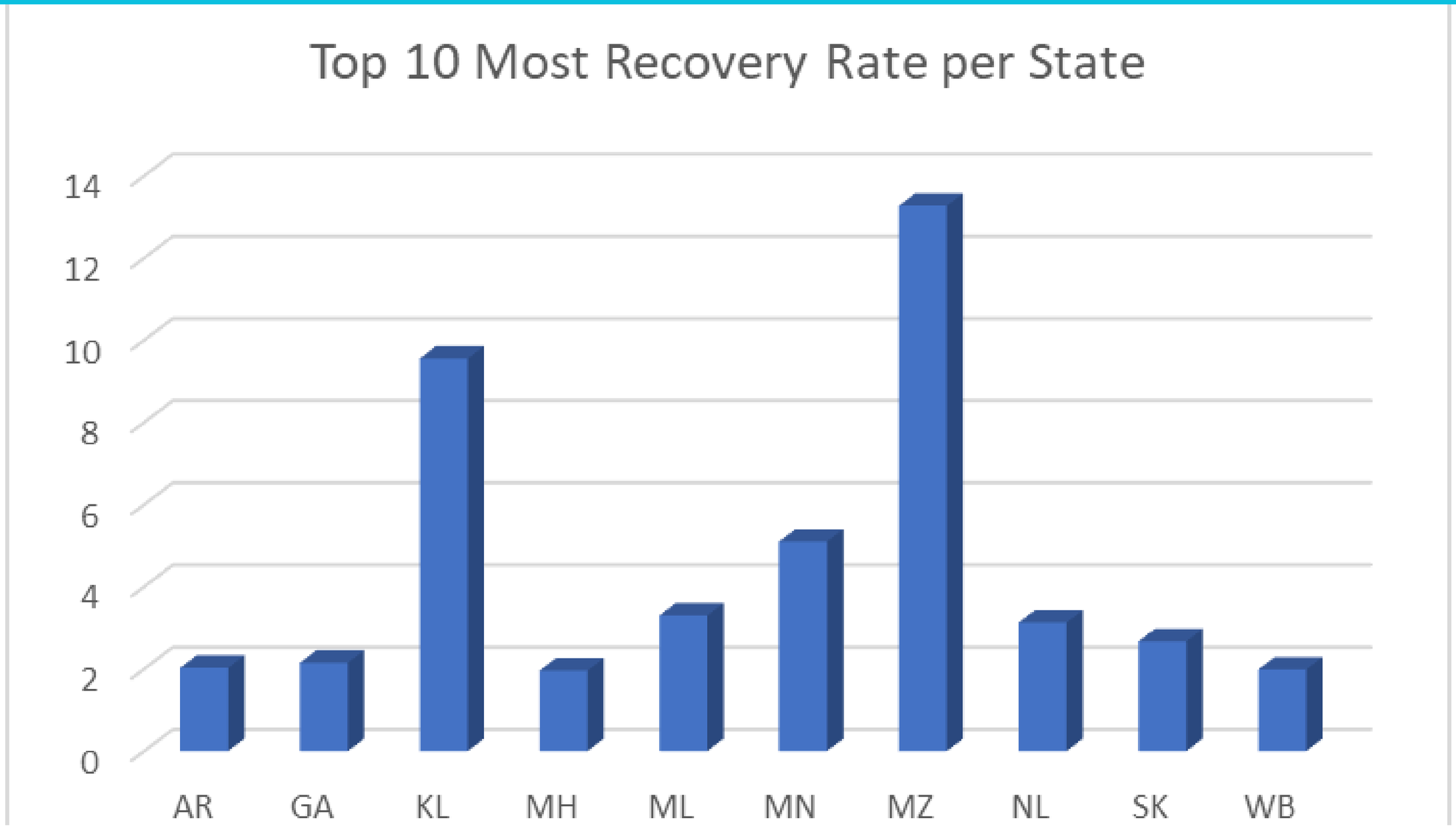
- Category E: 0.75 < tr ≤ 1.0



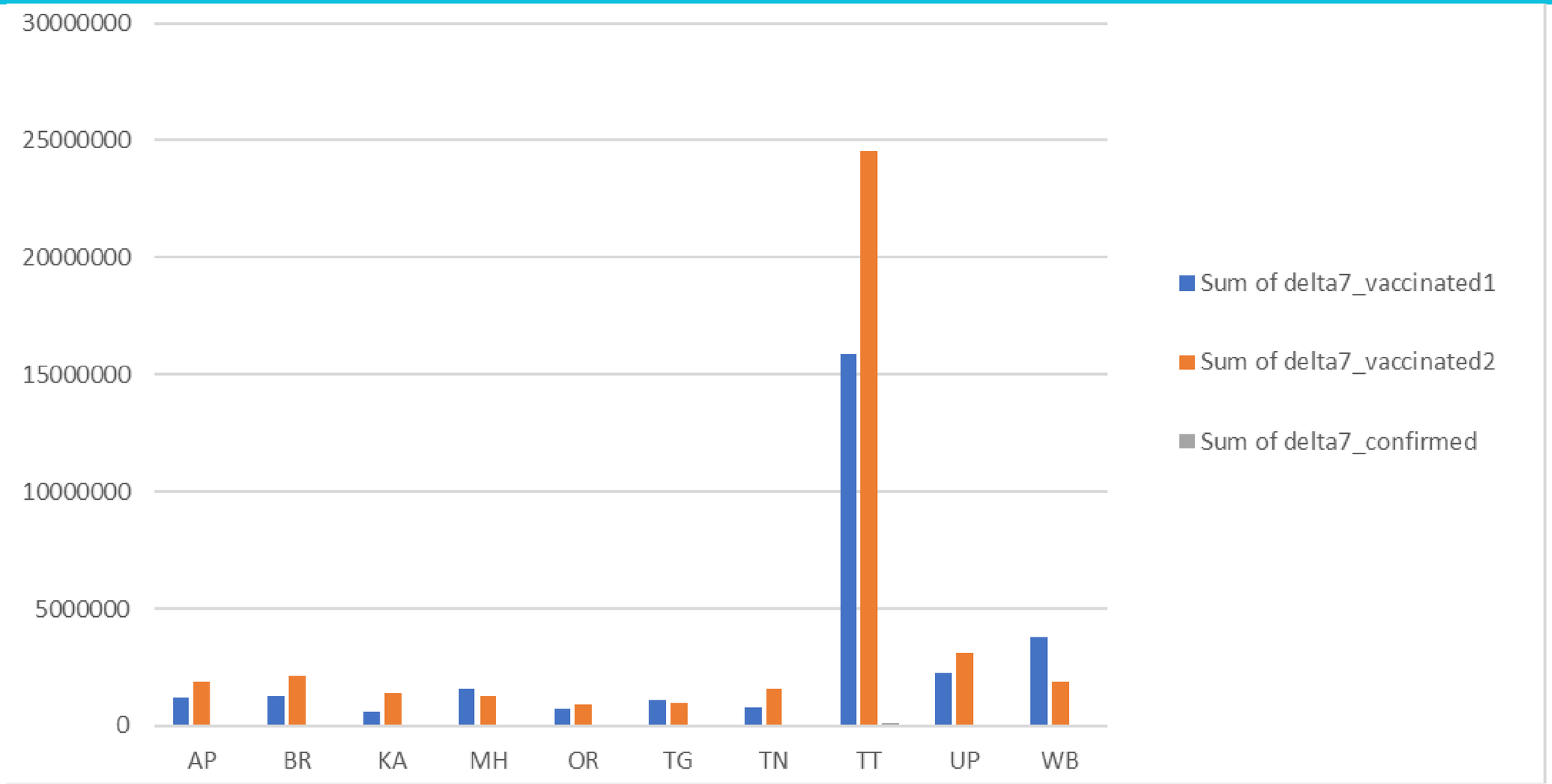
Death Rate by State and Population



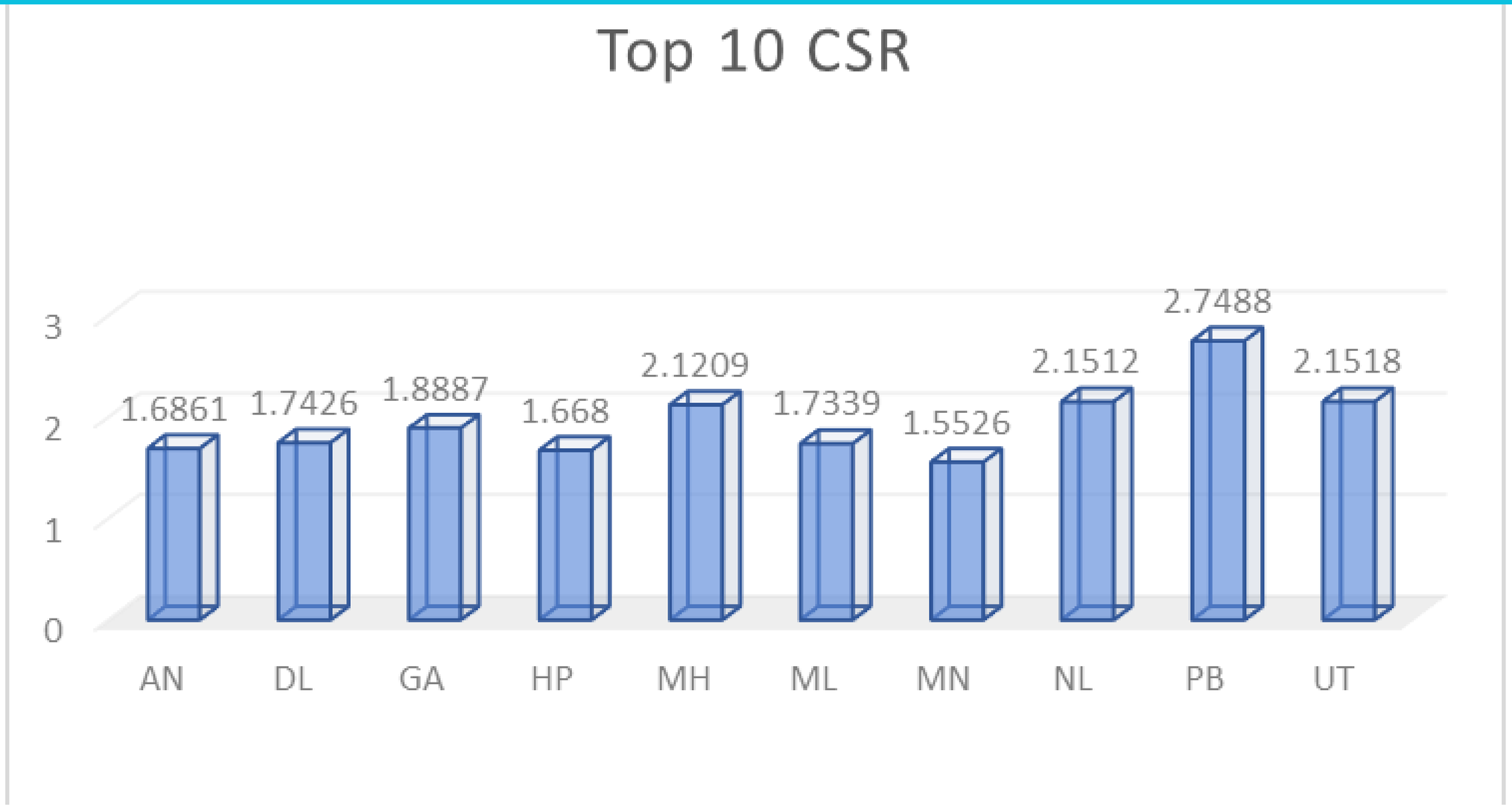
Recovery Rate vs State



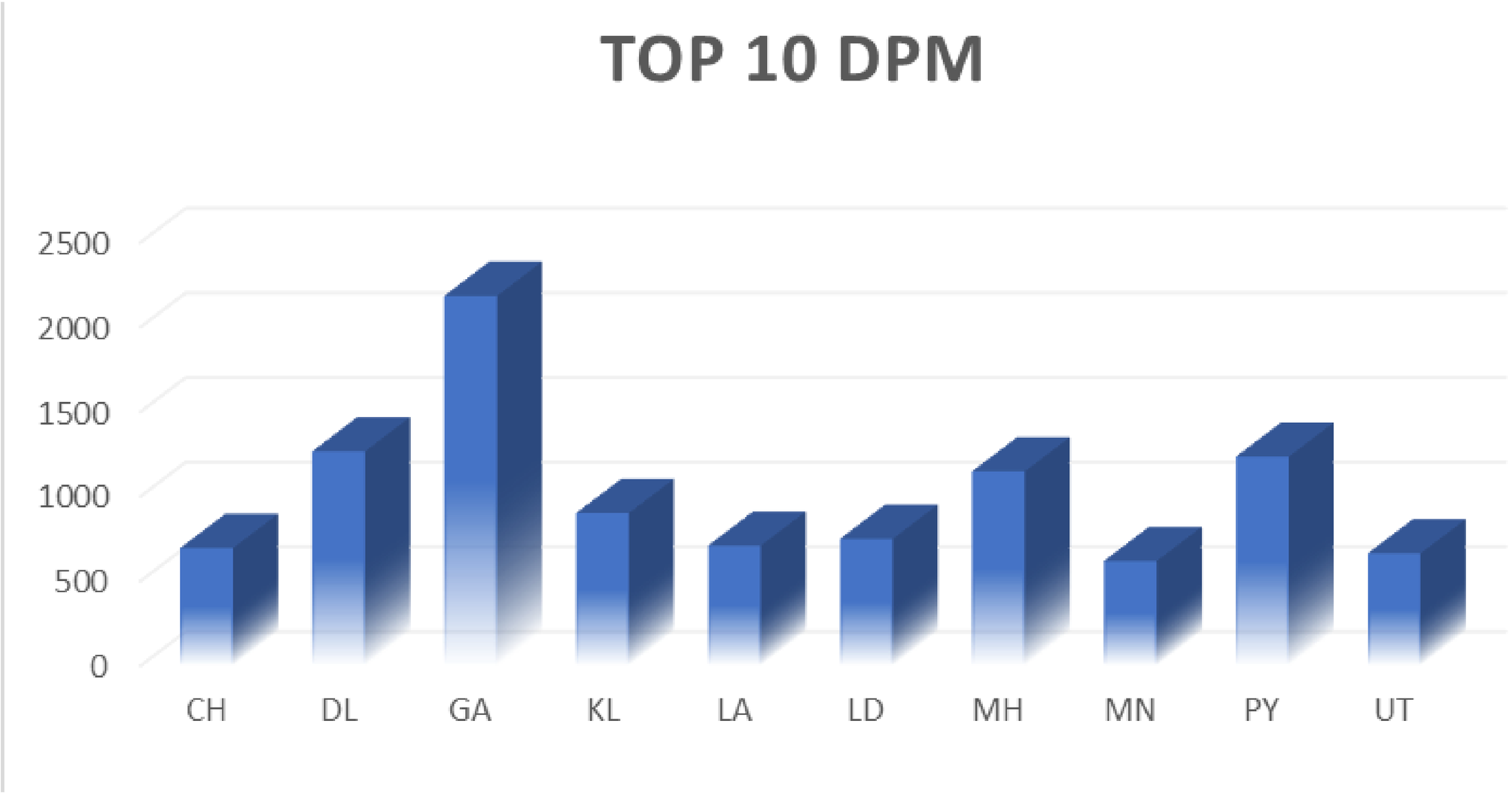
Compare delta7 confirmed cases with respect to vaccination



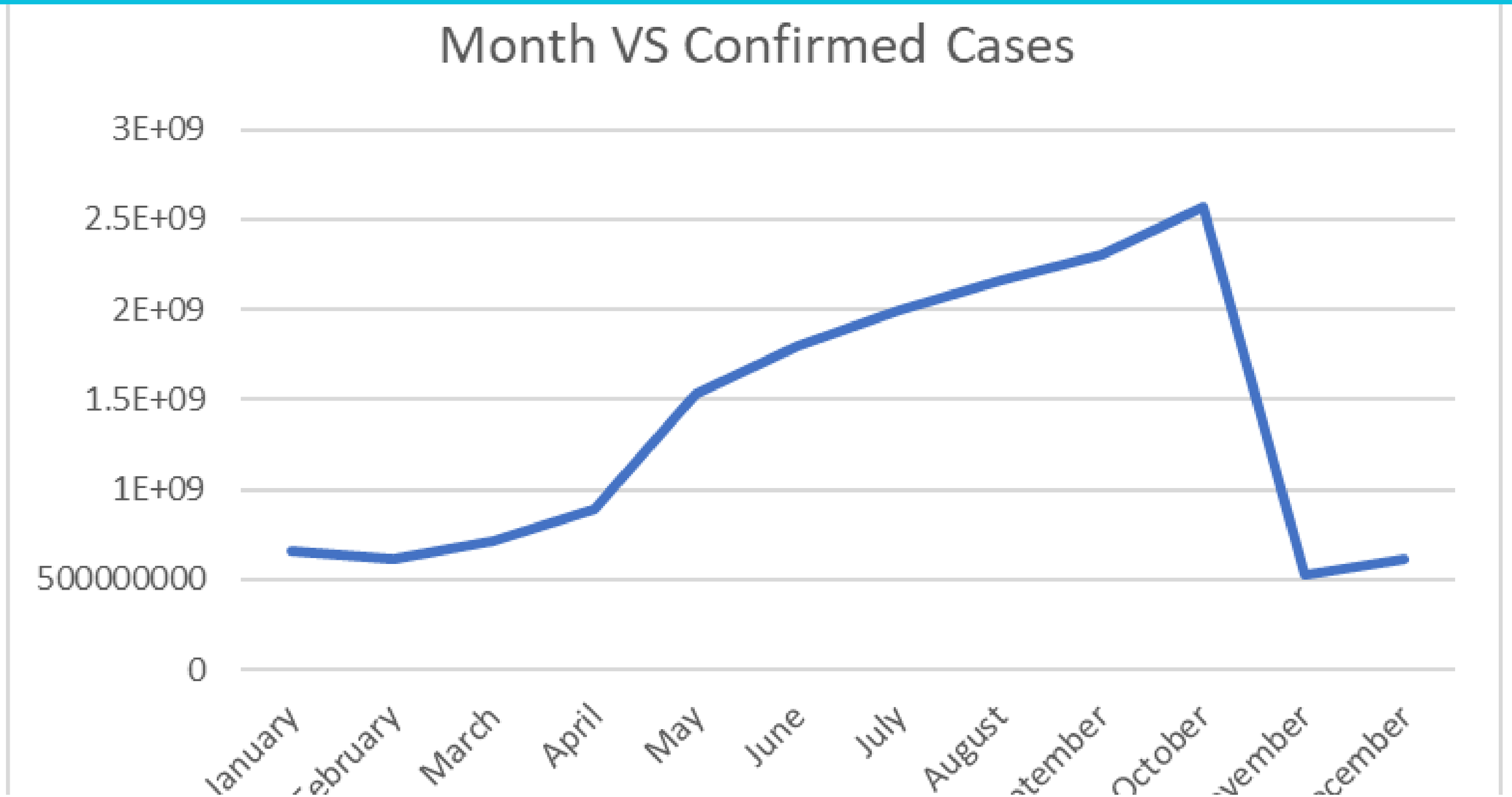
KPI 1: Case Severity Ratio



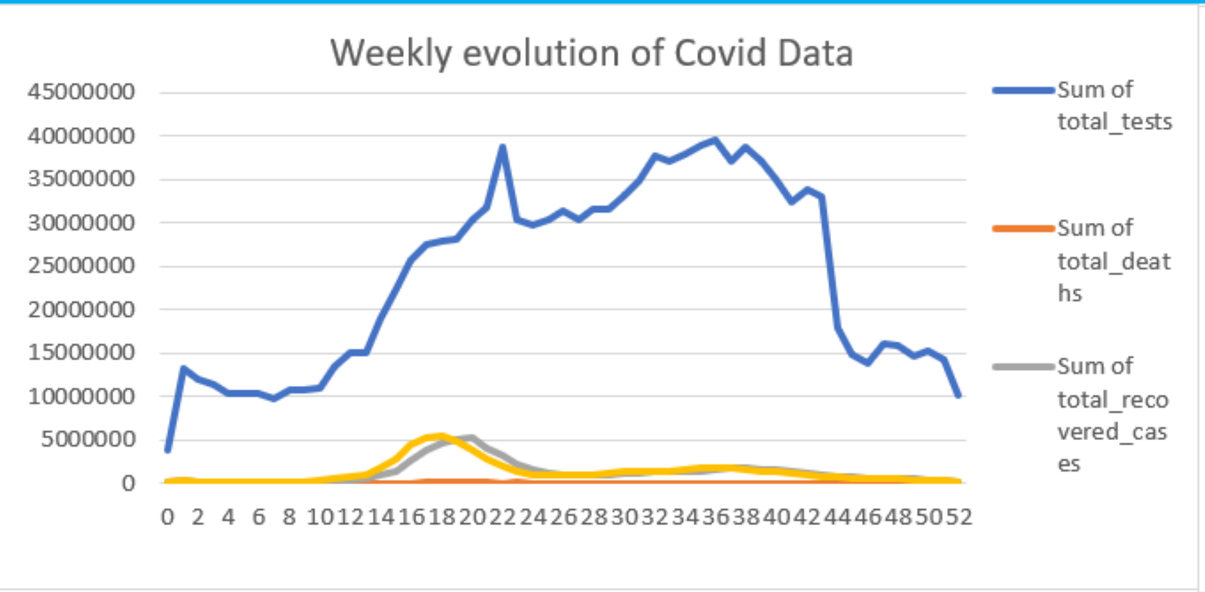
KPI 2: Death Rate per Million

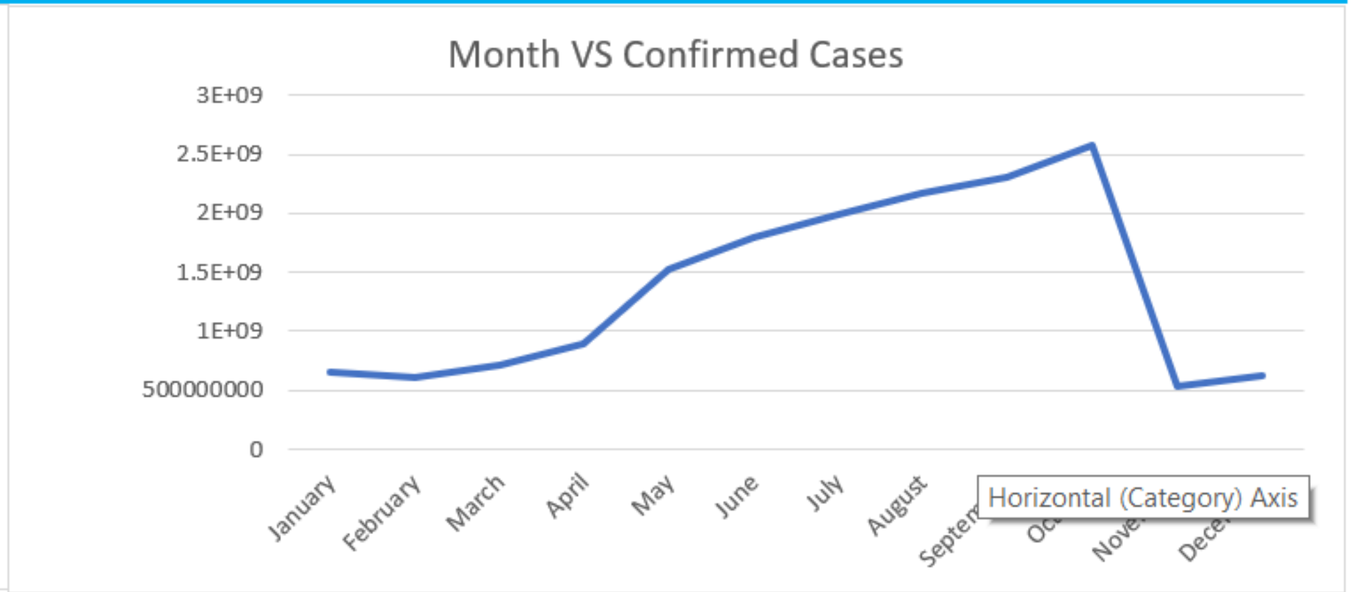


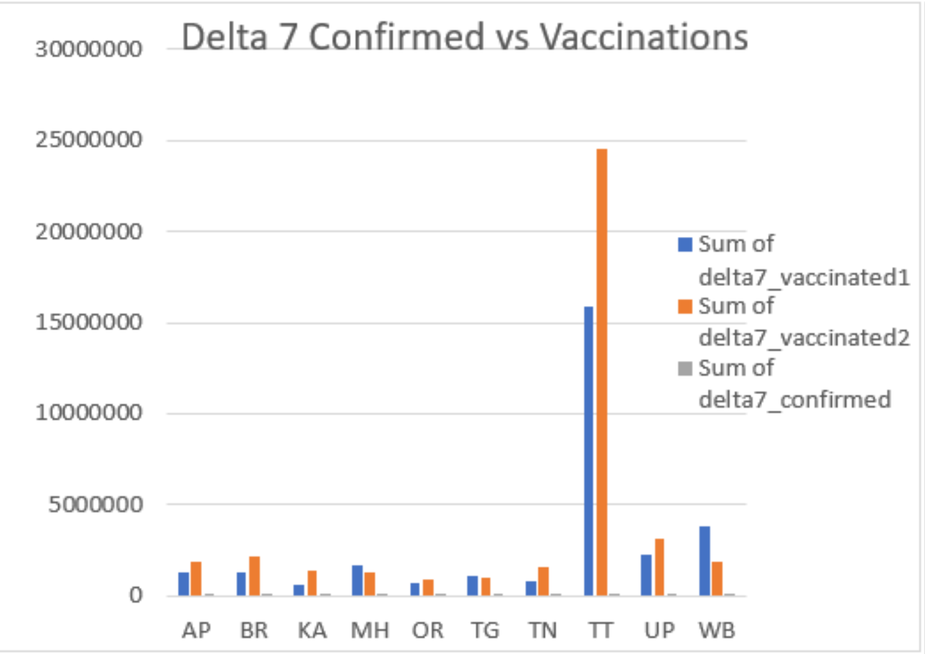
Categorise total number of confirmed cases in a state by Months

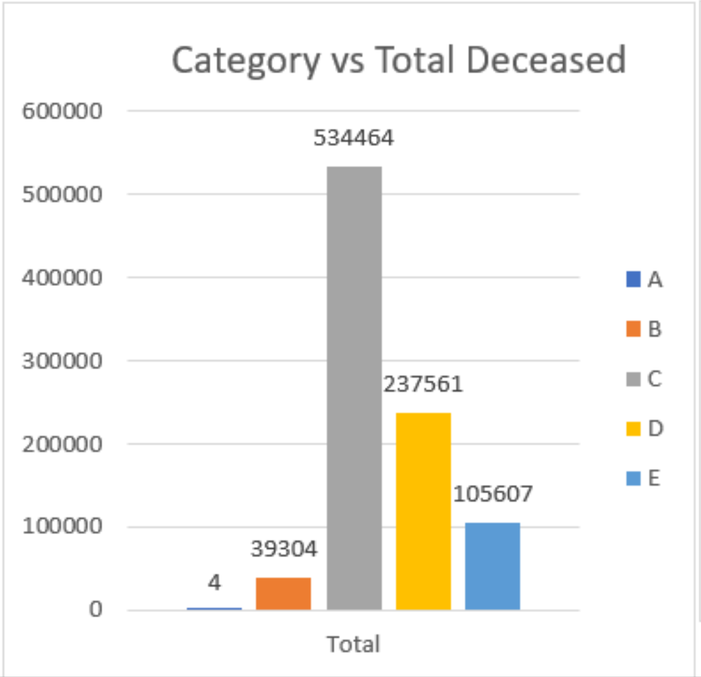


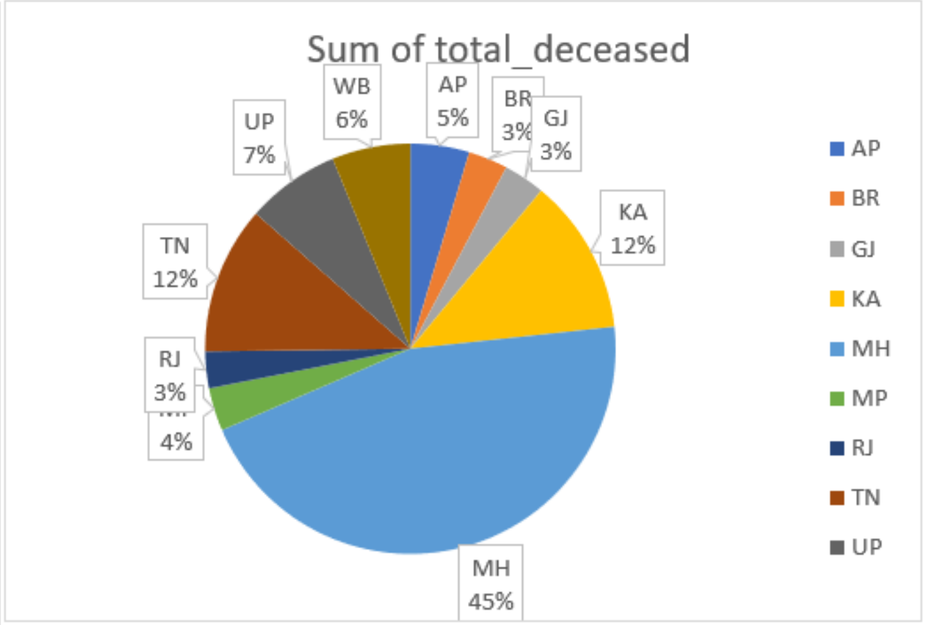
DASHBOARD FOR COVID-19












THANK YOU
DOCTORS AND NURSES