

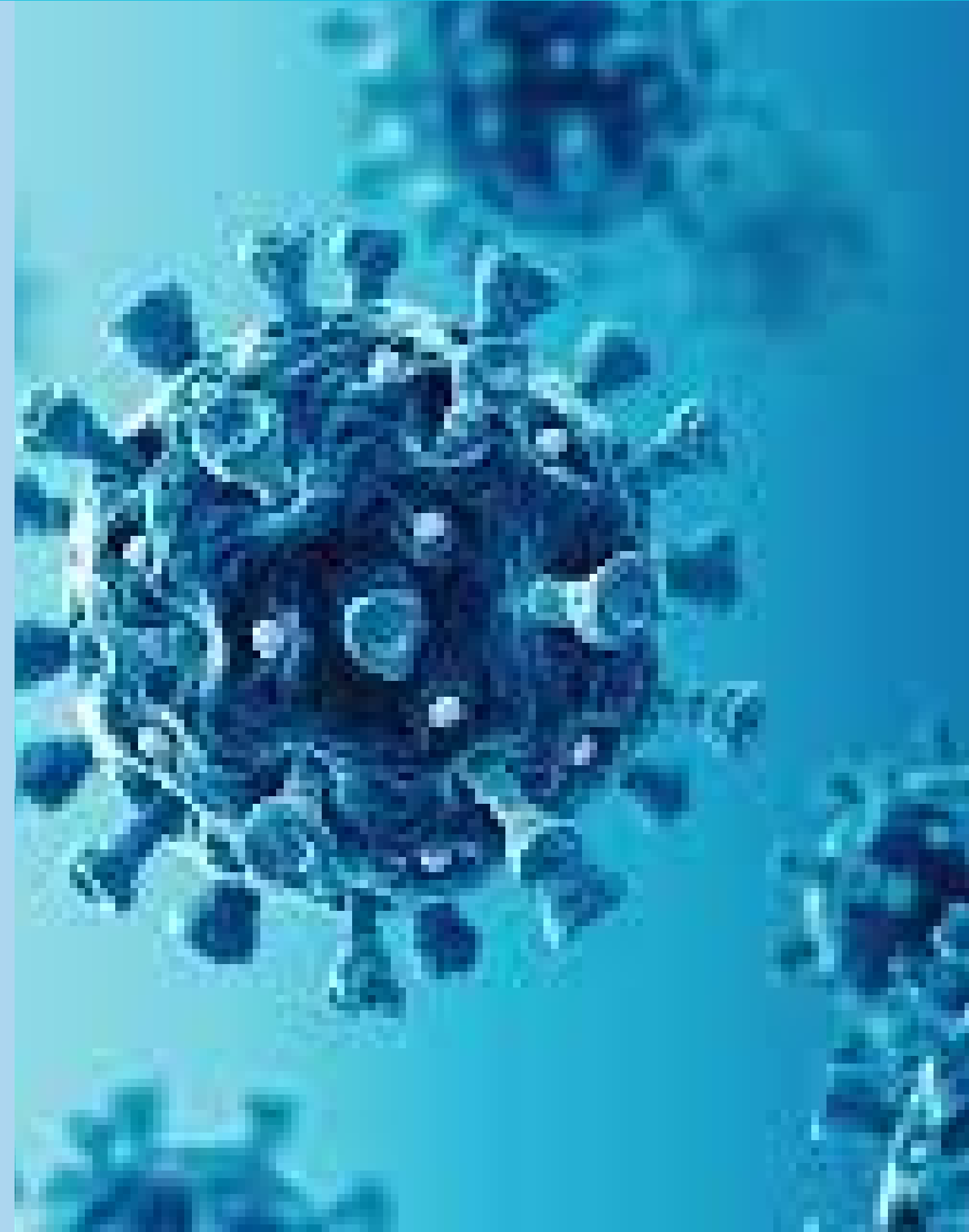
A microscopic view of several COVID-19 virus particles. The particles are spherical with a textured surface and numerous small, rounded protrusions (spikes) extending from them. They are set against a dark blue background with some light blue, hazy, circular patterns. The image is partially obscured by a blue triangular graphic on the left and a white diagonal line.

# Covid-19 in India

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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

Fetching the data from JSON data file and time-series file.  
Making the data normalised

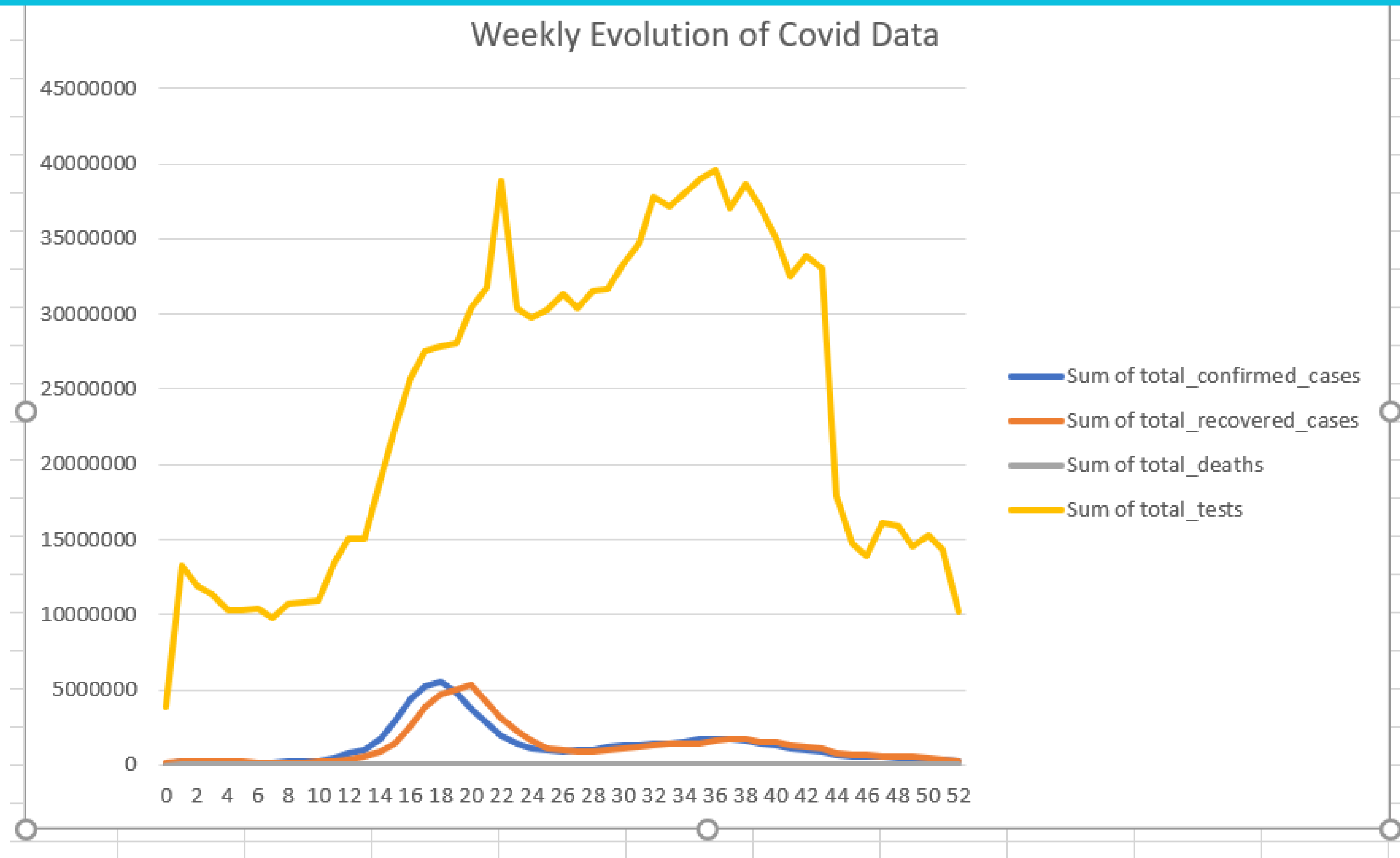
Step 2

Performing Data Arrangements using Excel Formulas and data cleaning using Python Language.

Step 3

Extracting the datescodes and state to analyse the vaccination, performed, recovered and tested numbers and dates using SQL

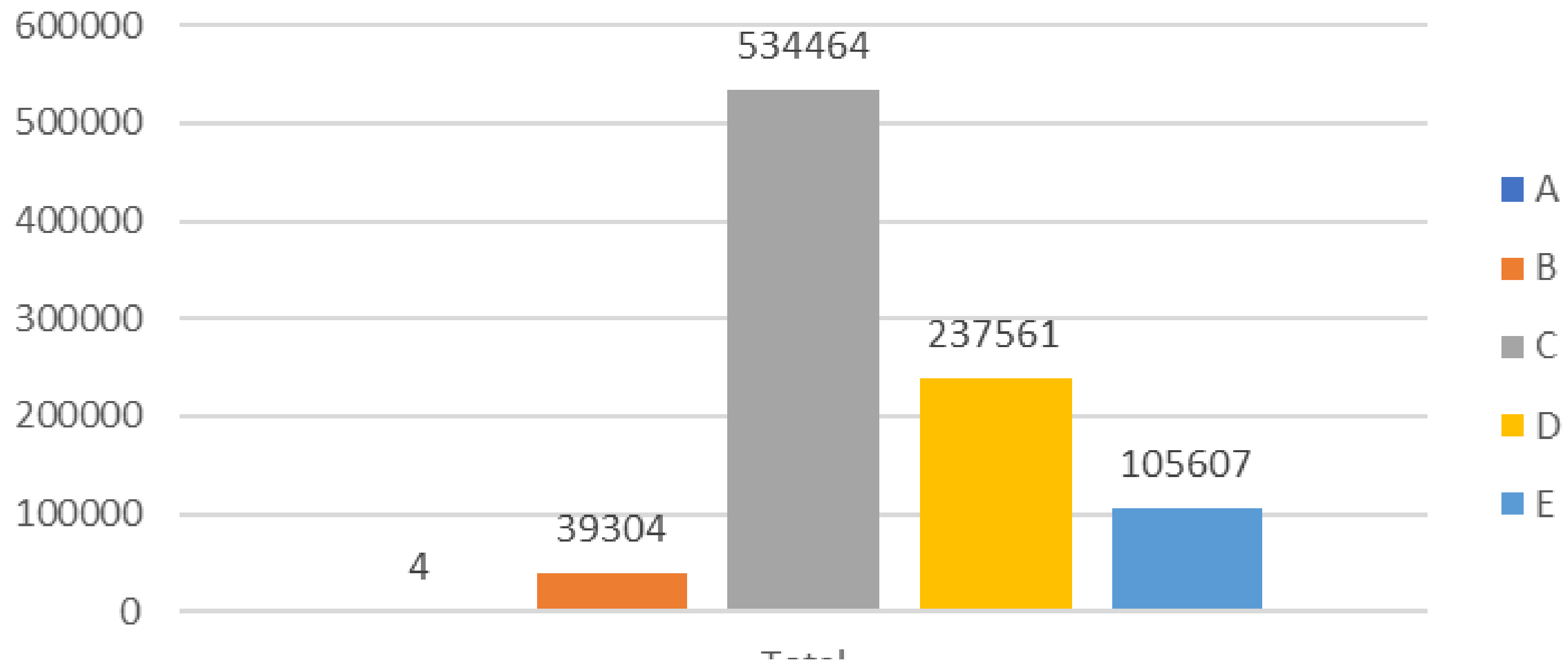
## Weekly evolution of number of confirmed cases, recovered cases, deaths, tests.



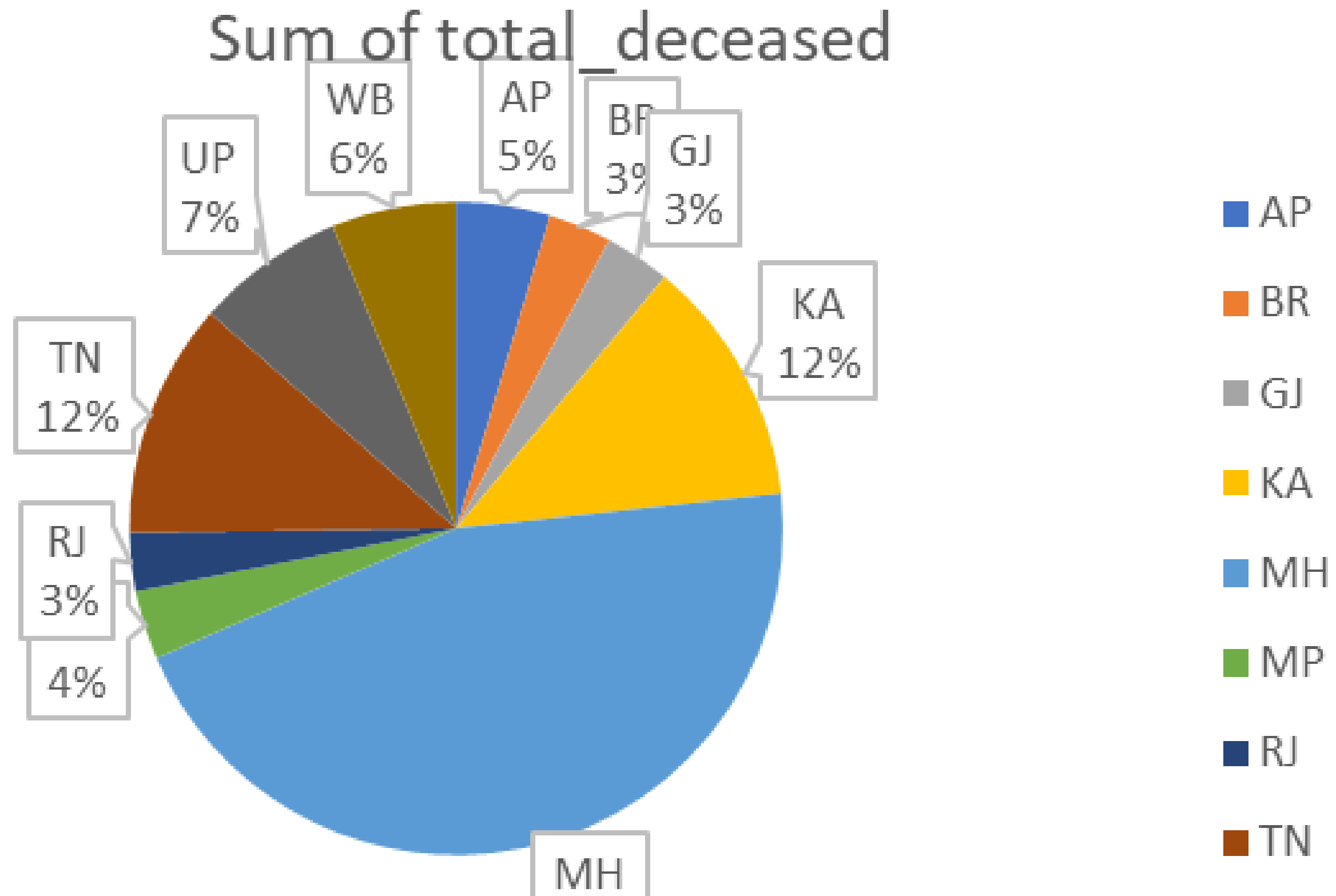
Testing ratio(tr) = (number of tests done) / (population)

- Category A:  $0.05 \leq tr \leq 0.1$
- Category B:  $0.1 < tr \leq 0.3$
- Category C:  $0.3 < tr \leq 0.5$
- Category D:  $0.5 < tr \leq 0.75$
- Category E:  $0.75 < tr \leq 1.0$

## Category vs Total Deceased



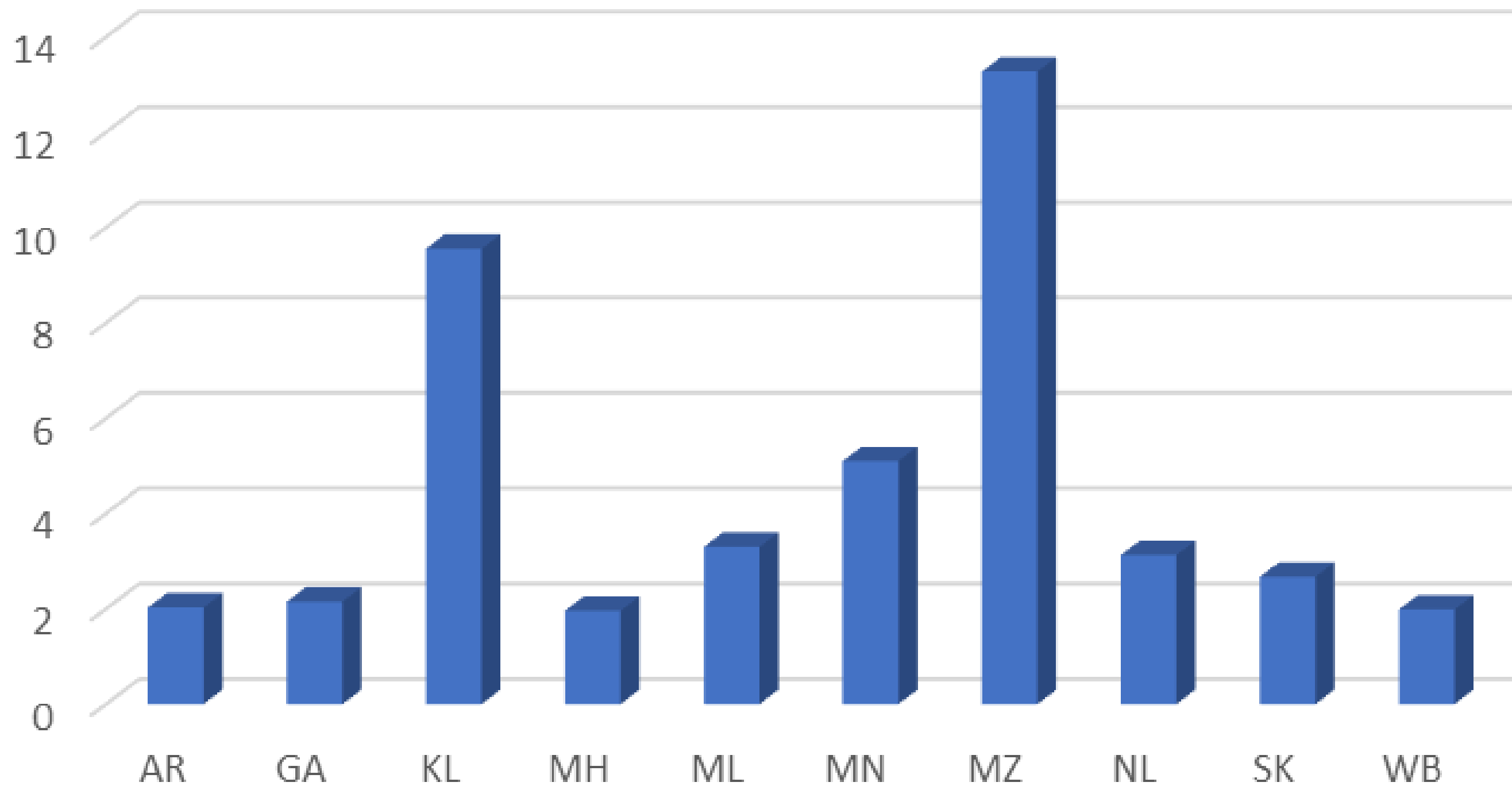
# Death Rate by State and Population



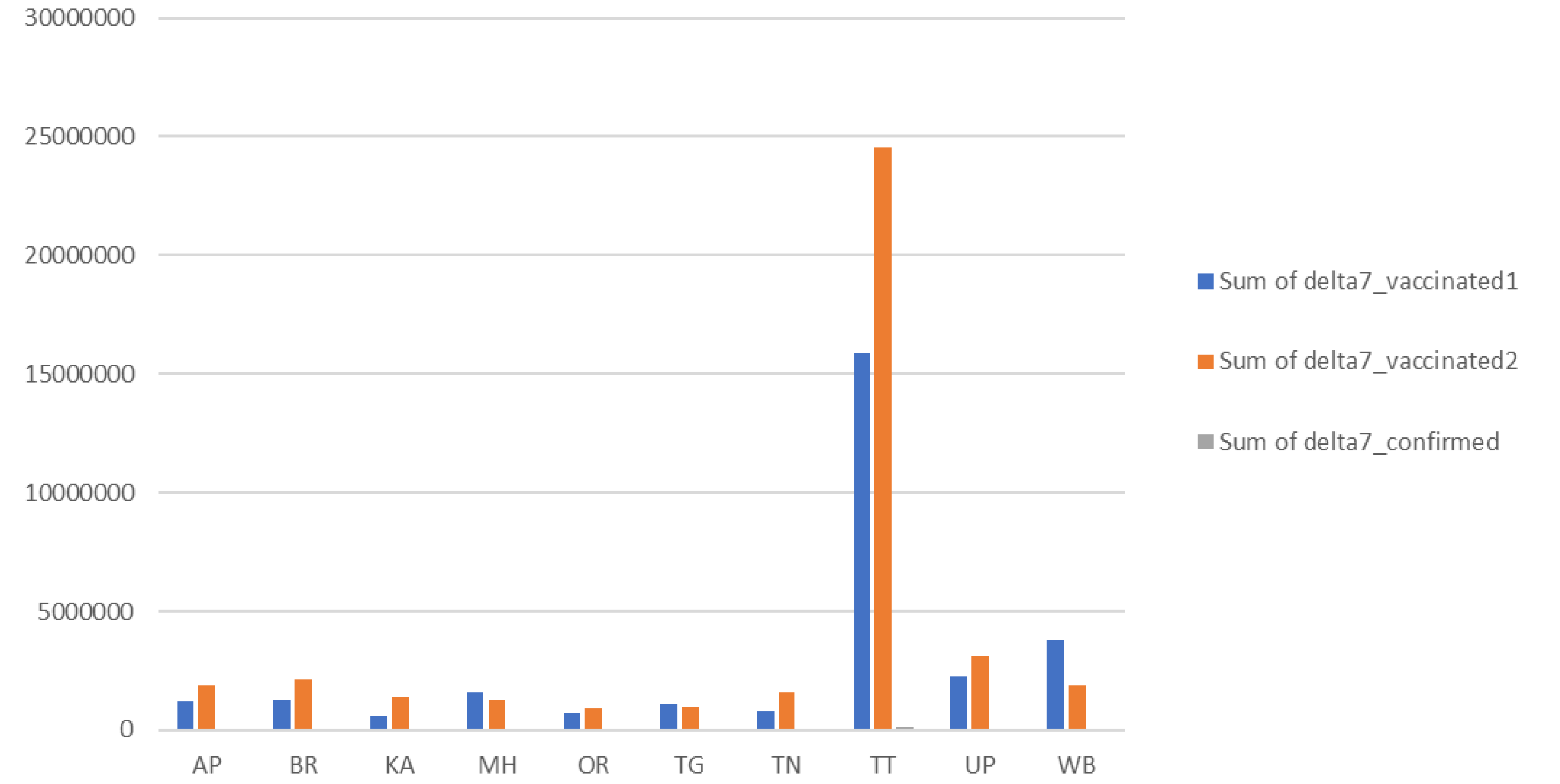


# Recovery Rate vs State

Top 10 Most Recovery Rate per State

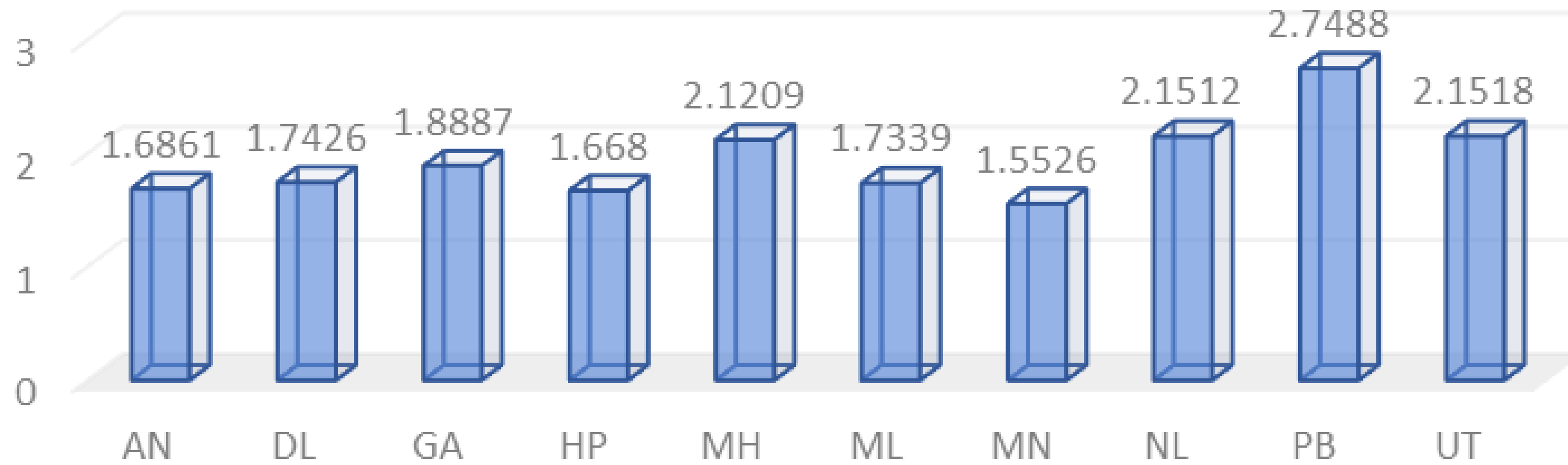


# Compare delta7 confirmed cases with respect to vaccination



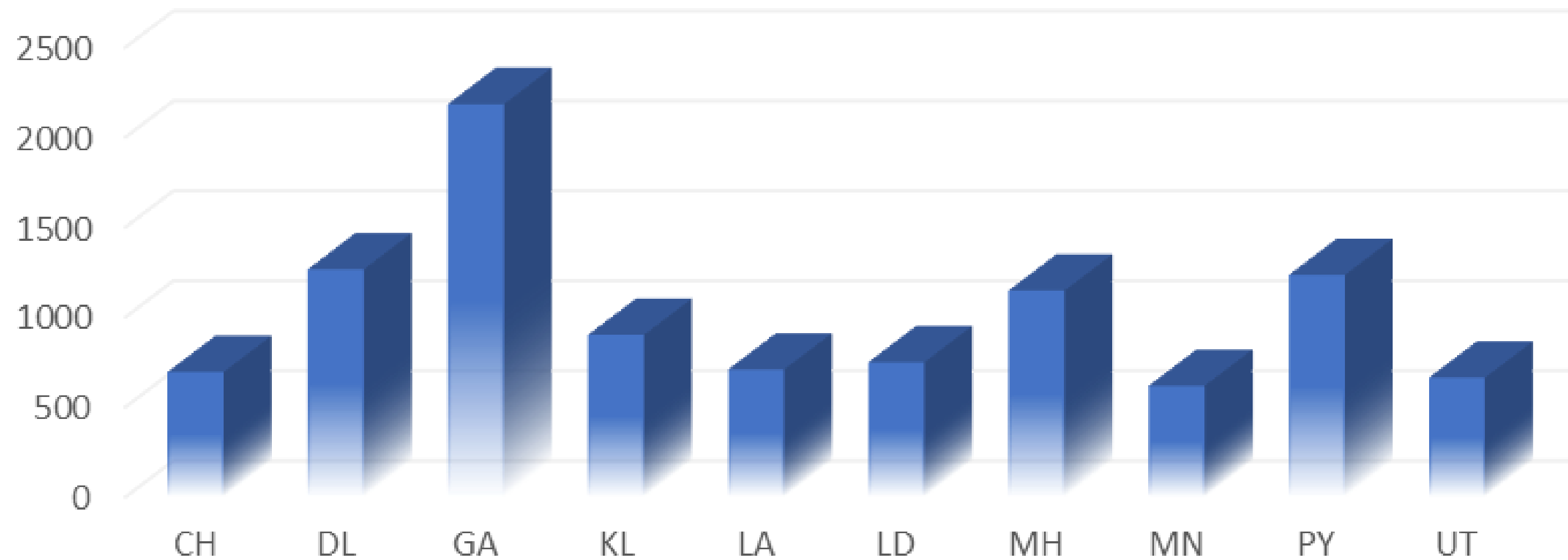
# KPI 1: Case Severity Ratio

## Top 10 CSR

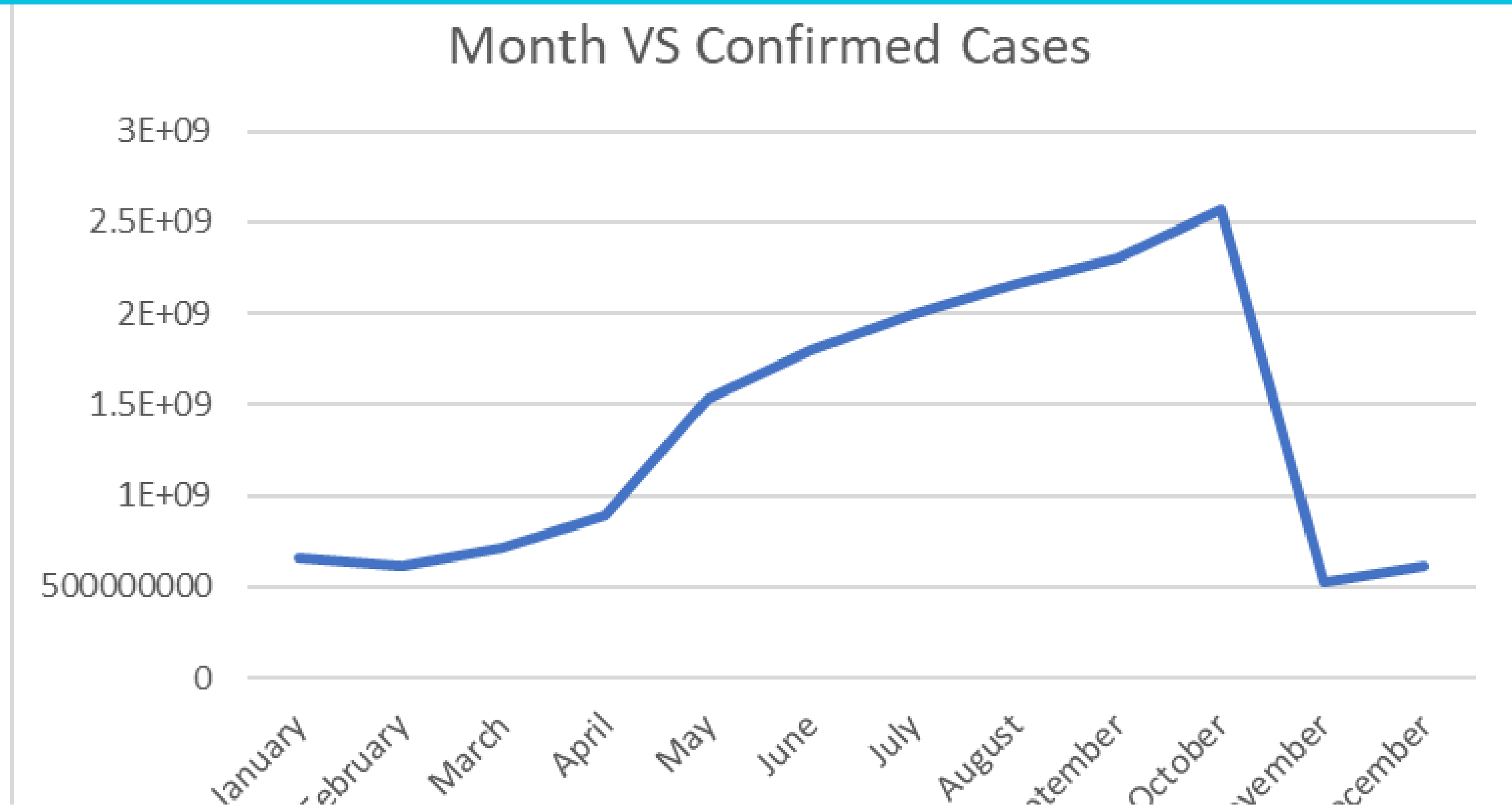


## KPI 2: Death Rate per Million

### TOP 10 DPM

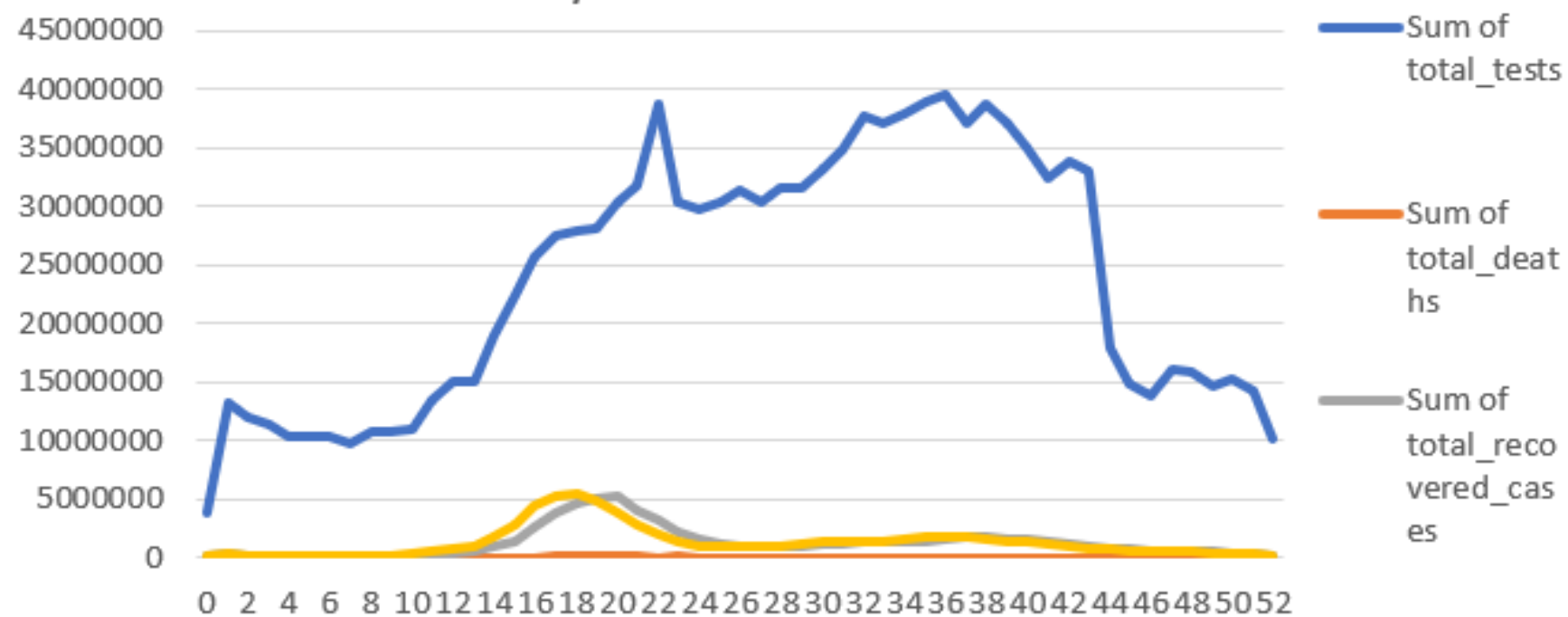


# Categorise total number of confirmed cases in a state by Months



# DASHBOARD FOR COVID-19

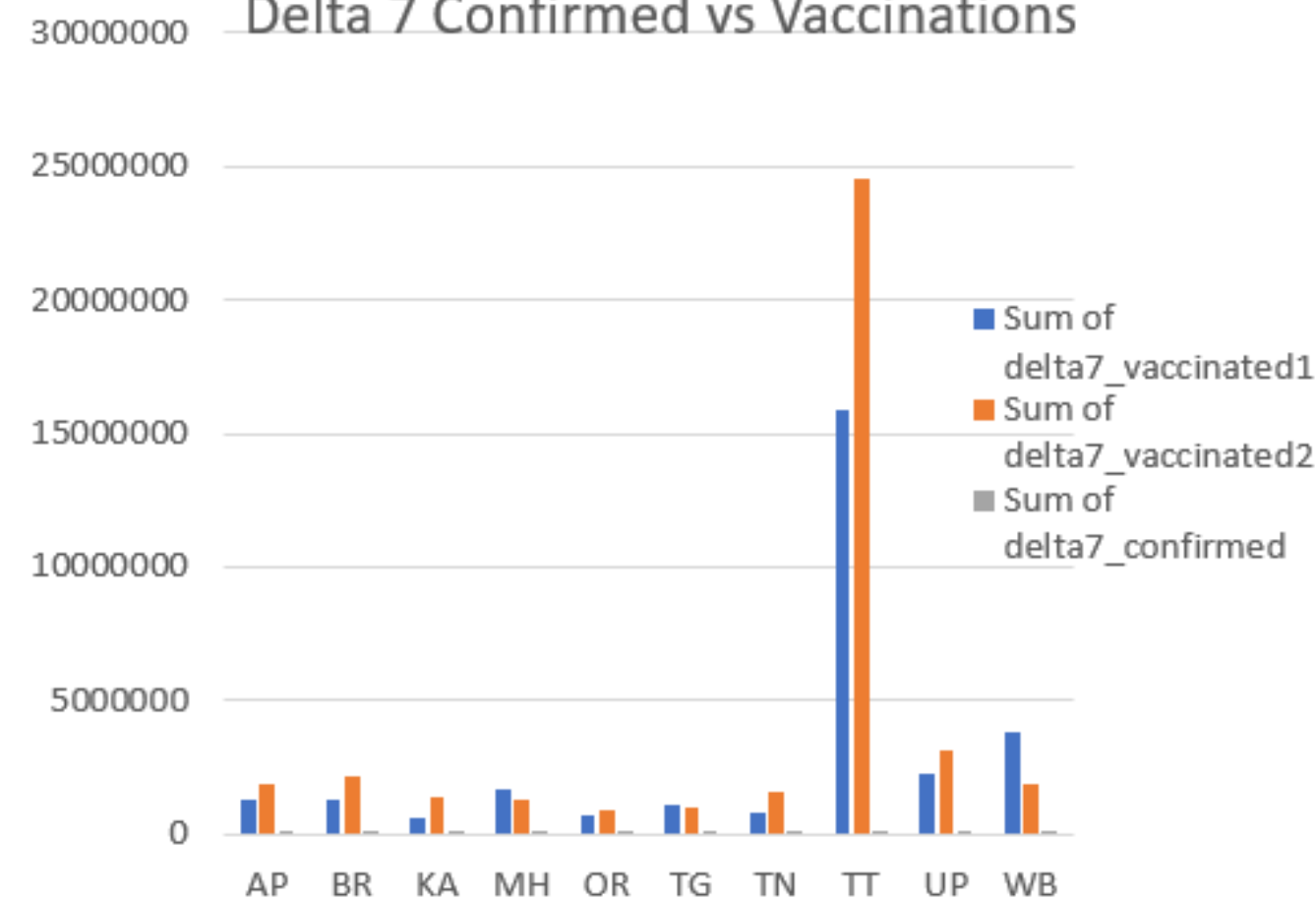
## Weekly evolution of Covid Data



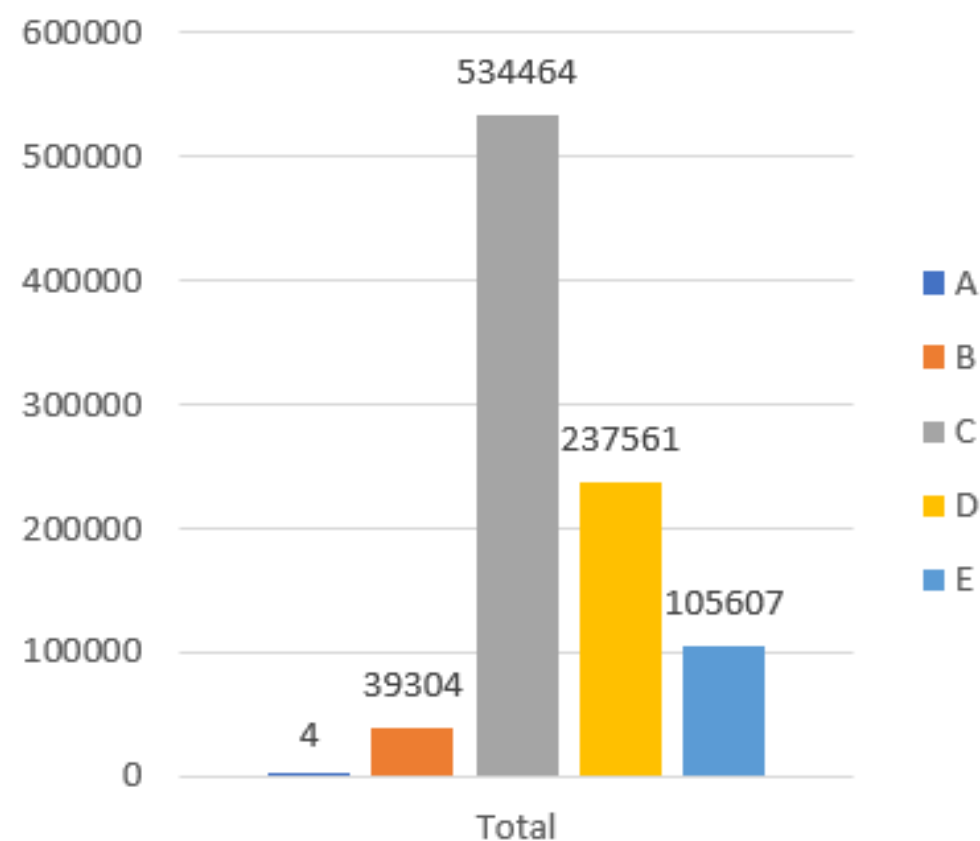
## Month VS Confirmed Cases



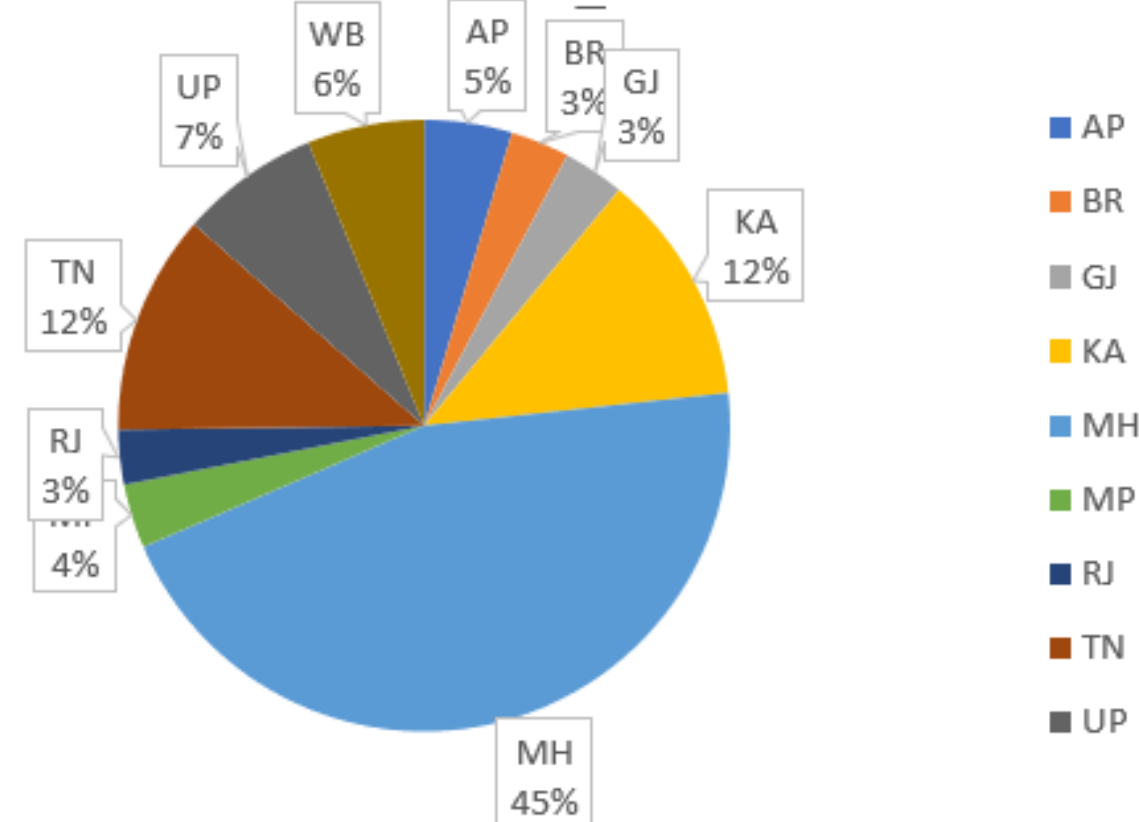
## Delta 7 Confirmed vs Vaccinations



## Category vs Total Deceased



## Sum of total\_deceased







# THANK YOU

DOCTORS AND NURSES

