

COVID-19 Global Data Analysis

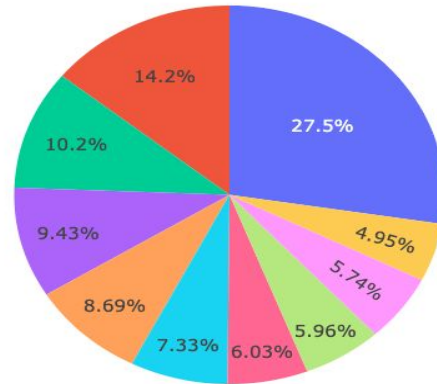
Utkarsh Agiwal (200020154)



Leading Countries by Case and Death

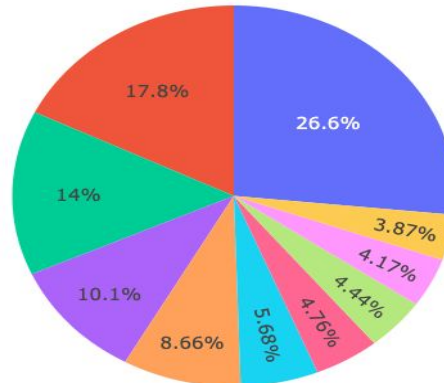
- Performance of countries in both of the aspects is similar with USA leading the charts in cases as well as deaths.
- While most of the countries have a similar ratio in both charts, France displays an excellence in healthcare facilities.

Top 10 Covid prone countries



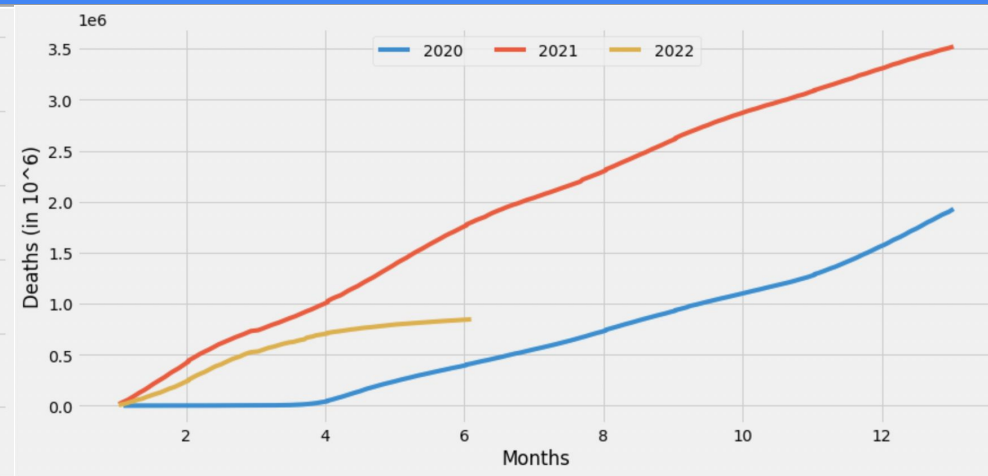
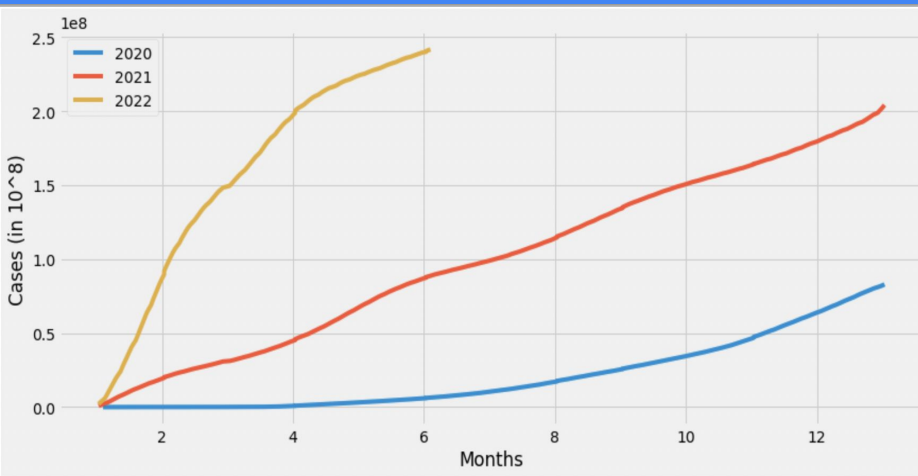
United States of America
India
Brazil
France
Germany
The United Kingdom
Russian Federation
Republic of Korea
Italy
Turkey

Top 10 countries by death



United States of America
Brazil
India
Russian Federation
Mexico
Peru
The United Kingdom
Italy
Indonesia
France

Monthly Trend of Cases and Deaths

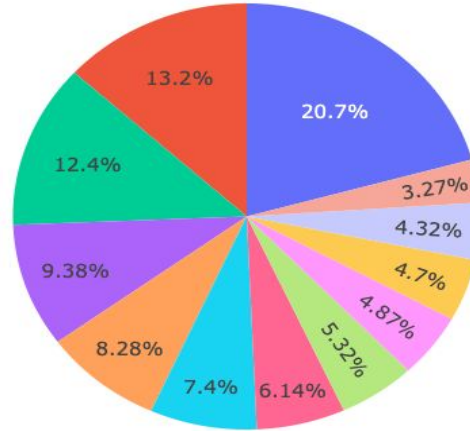


- The severity of transmission has increased over the years as concluded from the graph on the left.
- In terms of deadliness of the disease, the 2021 variant seems to be the most hazardous, having moderate transmissivity as well as higher number of deaths.
- The 2022 variant is highly transmissible but the deaths show a constant trend in the upcoming months as opposed to previous years.

Month-wise distribution

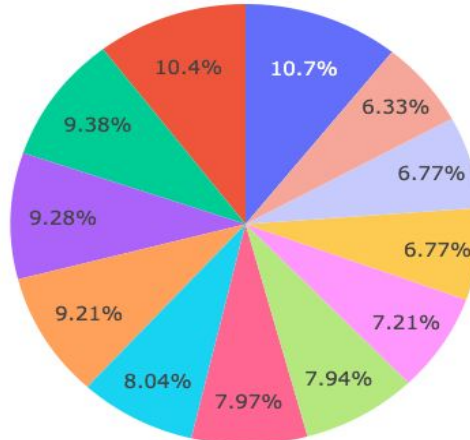
- The distribution of initial months of the year that is December, January, February, March, April have a heavy contribution to deaths as well as cases.
- New Years Eve and Christmas might be an important reason for this trend worldwide.

Month-wise distribution of cases



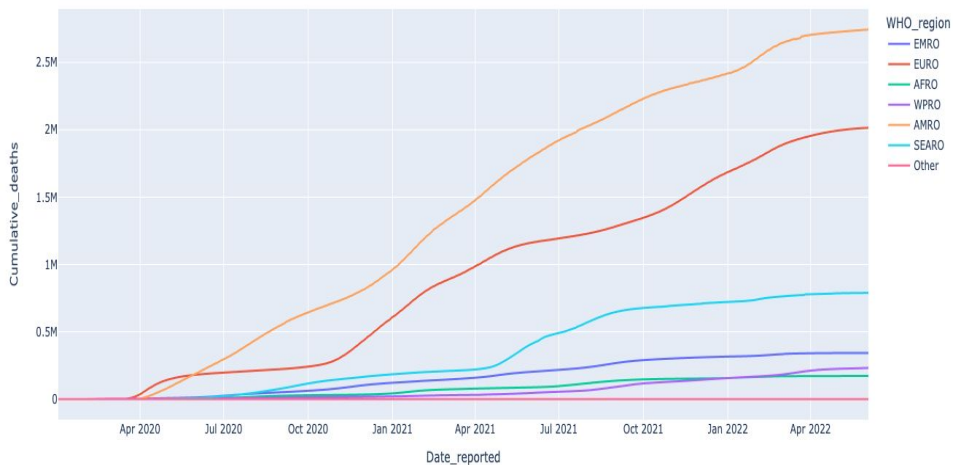
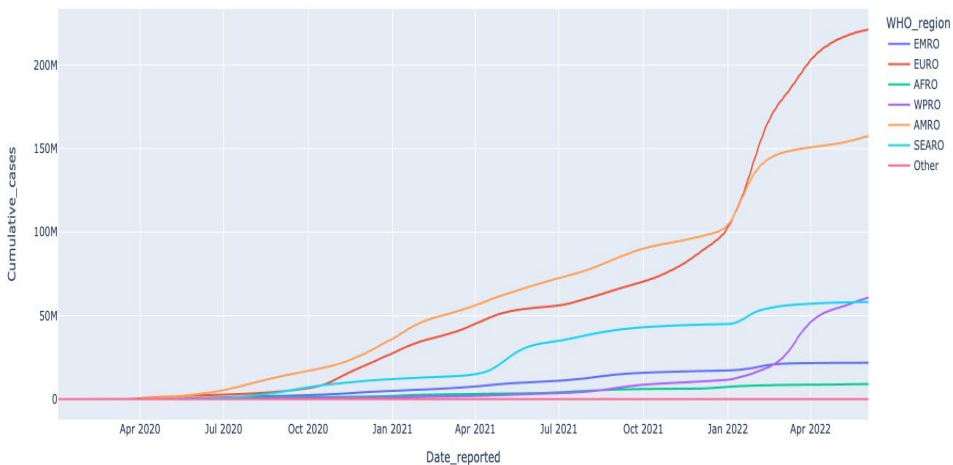
■ January
■ February
■ March
■ April
■ December
■ May
■ November
■ August
■ October
■ September
■ July
■ June

Month-wise distribution of deaths



■ January
■ April
■ May
■ February
■ December
■ March
■ August
■ November
■ July
■ September
■ June
■ October

WHO Region-wise Contribution

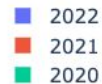
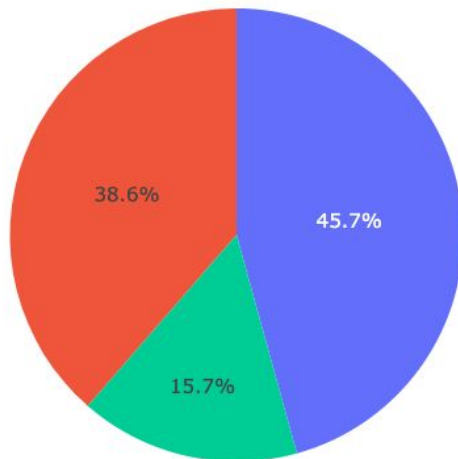


- The majority of deaths and cases fall under EURO and AMRO region with both of them showing similar trends.
- The data analysis fits with the pie charts from the slide 2 with the same countries' region topping the charts.

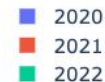
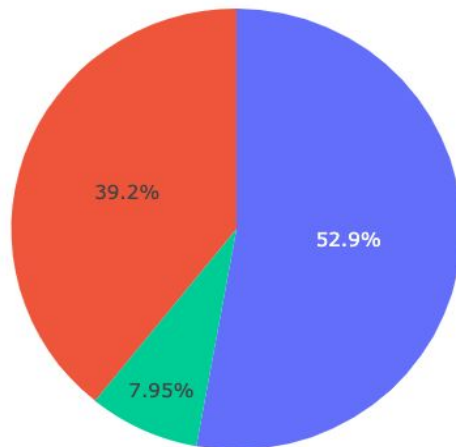
Year-wise contribution

- Reversal of trends with years 2020 and 2022 showing steep decline of fatality rate.
- Development of vaccines is also a major factor in this turnaround.

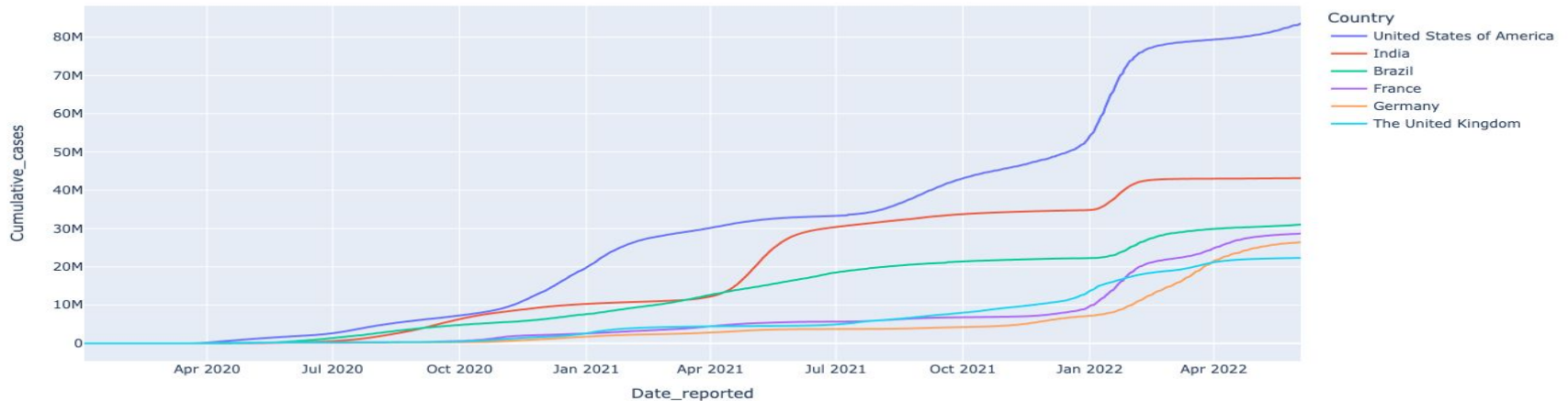
Year-wise distribution of cases



Year-wise distribution of deaths



Country-wise trends



- Timeline of waves of various countries can be observed from the sudden jump.
- The jumps are being usually seen at the start of the new year complementing the earlier data.