Analysing the spread and effect of COVID in different countries

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1 Introduction

In this report, we will be using information visualization to study the spread of COVID-19 and how well different countries were able to adapt to a pandemic.

COVID-19 is a highly infectious disease caused by the novel coronavirus first identified in Wuhan, China in 2019. Since then the disease has rapidly spread all over the world.
This dataset provides data from Jan 2020, till Jan 2023. Studying this we can potentially understand how well each countries health care functions, and how well they are able to counter an unexpected pandemic of this magnitude.

As of January 2023, the global COVID-19 statistics are:

Total confirmed cases: Over 151 million
Total deaths: Over 3.2 million
Most affected countries: United States, India, Brazil
Vaccine doses administered: Over 1.8 billion

In some regions of the world, the number of COVID-19 cases and deaths have been declining since the peak of the pandemic. However, the situation varies depending on the country and the severity of the outbreak, and the decline could also be affected by factors such as vaccine rollout and adherence to health measures.

2 About the dataset

2.1 Source of dataset

The dataset used in this report is taken from the international WHO (World Health Organization) website. (covid19.who.int/data)

The World Health Organization (WHO) is a specialized agency of the United Nations responsible for global public health, established in 1948. It provides technical assistance, sets standards and norms, collects data and research, and works to improve health systems globally. WHO plays a key role in responding to health emergencies such as the COVID-19 pandemic. It also works to address other global health challenges, including infectious diseases, non-communicable diseases, and health emergencies.

The WHO coronavirus (COVID-19) dashboard presents official daily counts of COVID-19 cases, deaths and vaccine utilisation reported by countries, territories and areas. It aims to provide a frequently updated data visualization, data dissemination and data exploration resource.

2.2 Fields present in data set (Schema)

DateReported	CountryName	WHOregion
New Cases	Cumulative Cases	New Deaths	Cumulative Deaths

3 Usefulness

This data set provided by WHO (World Health Organization) is very helpful to gain a better understanding on how well a country's healthcare functions and how it has dealt with the COVID-19 pandemic thus far. With the data set being regularly updated by WHO, we receive up to date statistics too.
Statistical data helps public health authorities to understand the extent and spread of the virus, the impact on health systems, and to make informed decisions on interventions and resource allocation.
COVID-19 statistics provide important information for researchers studying the virus, its transmission, and potential treatments.
Overall, studying COVID-19 statistics provides valuable information to make informed decisions and respond effectively to the pandemic.

4 Conclusion

In conclusion, this report is to act as a starting point to further analyze how each country has worked to combat against the COVID-19 pandemic.
To study how efficiently each country's medical systems work in the face of an unexpected pandemic.

5 Acknowledgements

I would like to thank the World Health Organization (WHO) for compiling data from all the concerned countries on their COVID statistics and the frequent updating of their data set. This report would not have been possible without their research.
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