COVID-19 Data Analysis and Dashboard Explanation

This document provides an explanation of the COVID-19 Dashboard created in Tableau using real-world data from the World Health Organization (WHO) and Our World in Data. The dashboard aims to help users explore COVID-19 trends, vaccination progress, testing rates, and their relationships across countries and regions interactively.

- 1. Data Preparation:
- Downloaded datasets covering COVID-19 cases and deaths, vaccination coverage, and testing statistics.
- Cleaned the data to handle missing or inconsistent values.
- Merged multiple datasets using common fields like Country, Date, and ISO Code to create a unified dataset.

2. Dashboard Overview:

The Tableau Dashboard consists of the following key interactive visualizations:

- a) Daily COVID-19 Cases Trend
- b) Vaccination Coverage Map
- c) Testing
- d) Hospitalization

3. Key Insights:

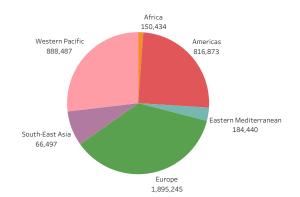
- Countries with higher vaccination coverage tend to show a decline in daily new cases.
- Testing rates vary widely across regions, influencing the accuracy of reported cases.
- Peaks in cases often align with periods before mass vaccination rollout. These
 insights can guide policymakers, researchers, and the public in understanding the
 COVID-19 situation globally.
- Pople may be admitted to the hospital, but Icu admission is not always the case.

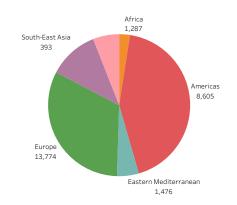
4. Conclusion:

The COVID-19 Dashboard created in Tableau effectively combines multiple datasets and visualizations to provide a comprehensive, interactive tool for analyzing the pandemic's trends and progress. Users can explore the data to derive meaningful insights and support data-driven decisions.

- 5. Data Sources:
- World Health Organization: https://data.who.int/dashboards/covid19/data
- Our World in Data: https://ourworldindata.org/

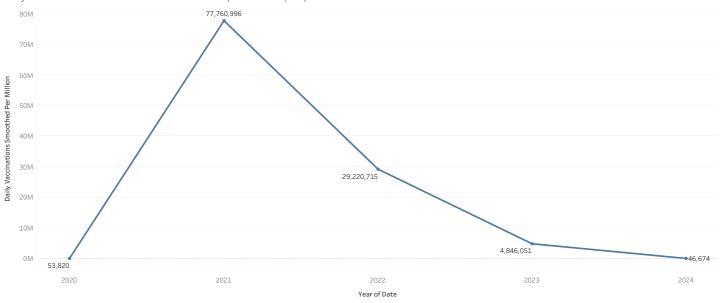
Confirmed COVID-19 death per region





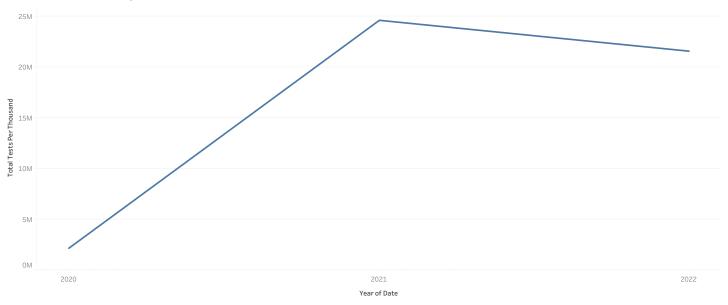


Daily COVID-19 vaccine doses administered per million people





Total covid 19 test done per thousand



Denmark United States

2024

2023

60K

Daily Occupancy Hosp Per 1M

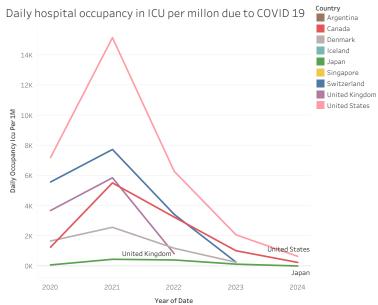
10K

2020

2021

2022

Year of Date





Weekly hospital ICU admission per milllion

