

Data Visualization Project - INT Data Analyst Course, Dec. 2022

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Our 10 Questions

Questions included in this report:

Question 1. Does an early stringent covid policy correlate with a lower number of cases and deaths?

Question 2. Does a higher population density correlate with a higher case rate per capita?

Question 3. Does the rate of smokers in each country correlate with a higher case/death rate? (**assuming the gender ratio is 50/50**)

Question 4. Which Countries Had the Most Stringent Policies on Average?

Question 5. How Did the Overall Vaccination Rate Correlate With the Death Rate in the Various Countries?

Question 6. Did countries with a higher percentage of older people have a more stringent covid policy overall?

Four further questions:

Question 7. Does a higher GDP per capita correlate to a higher vaccination rate?

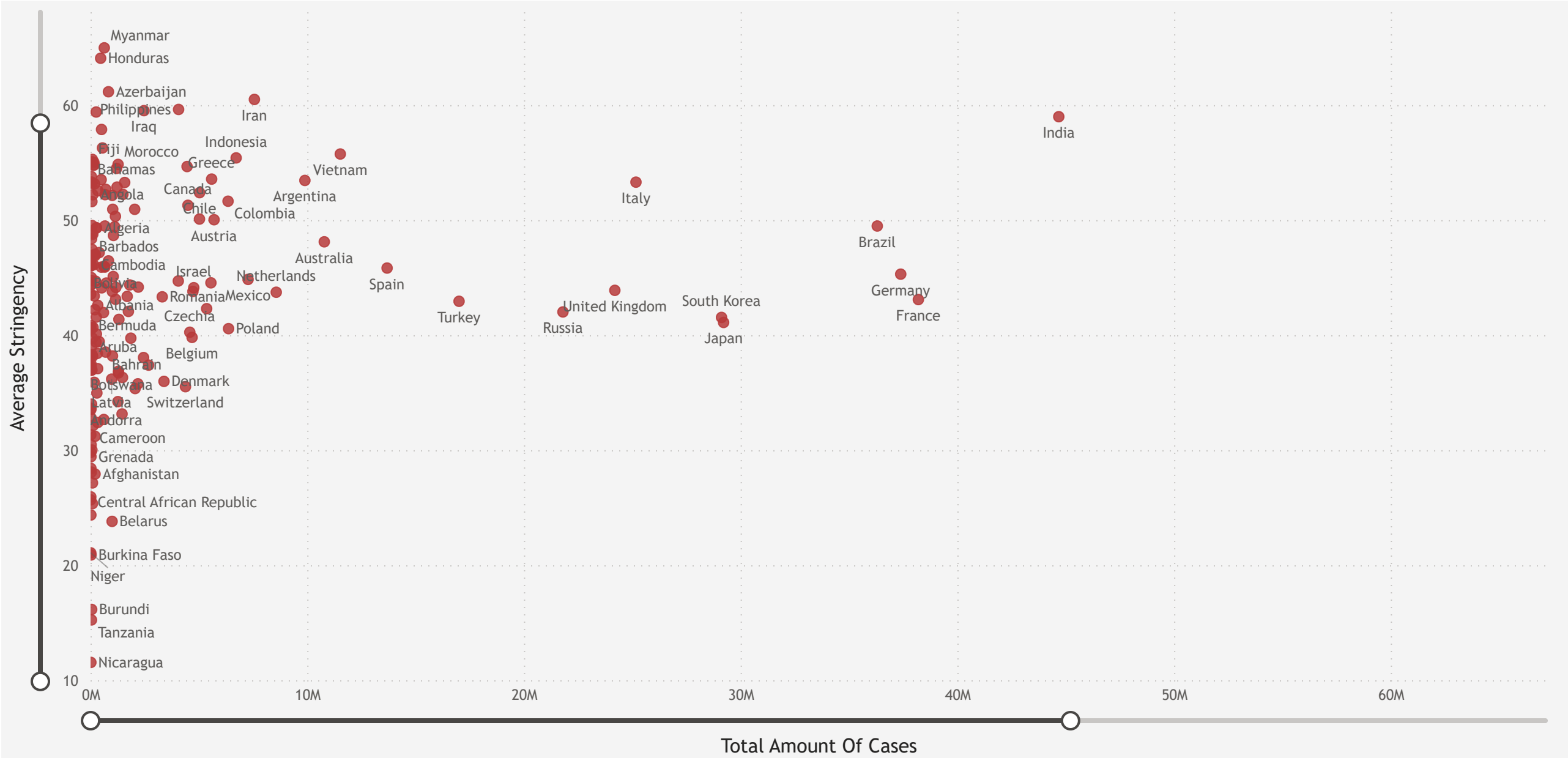
Question 8. Does the death rate correlate with the ICU rate in richer countries?

Question 9. In poorer countries, was there a drop in the case rate?

Question 10. Did the times when the tests in a given country were at their highest correlate with a higher Reproduction rate?

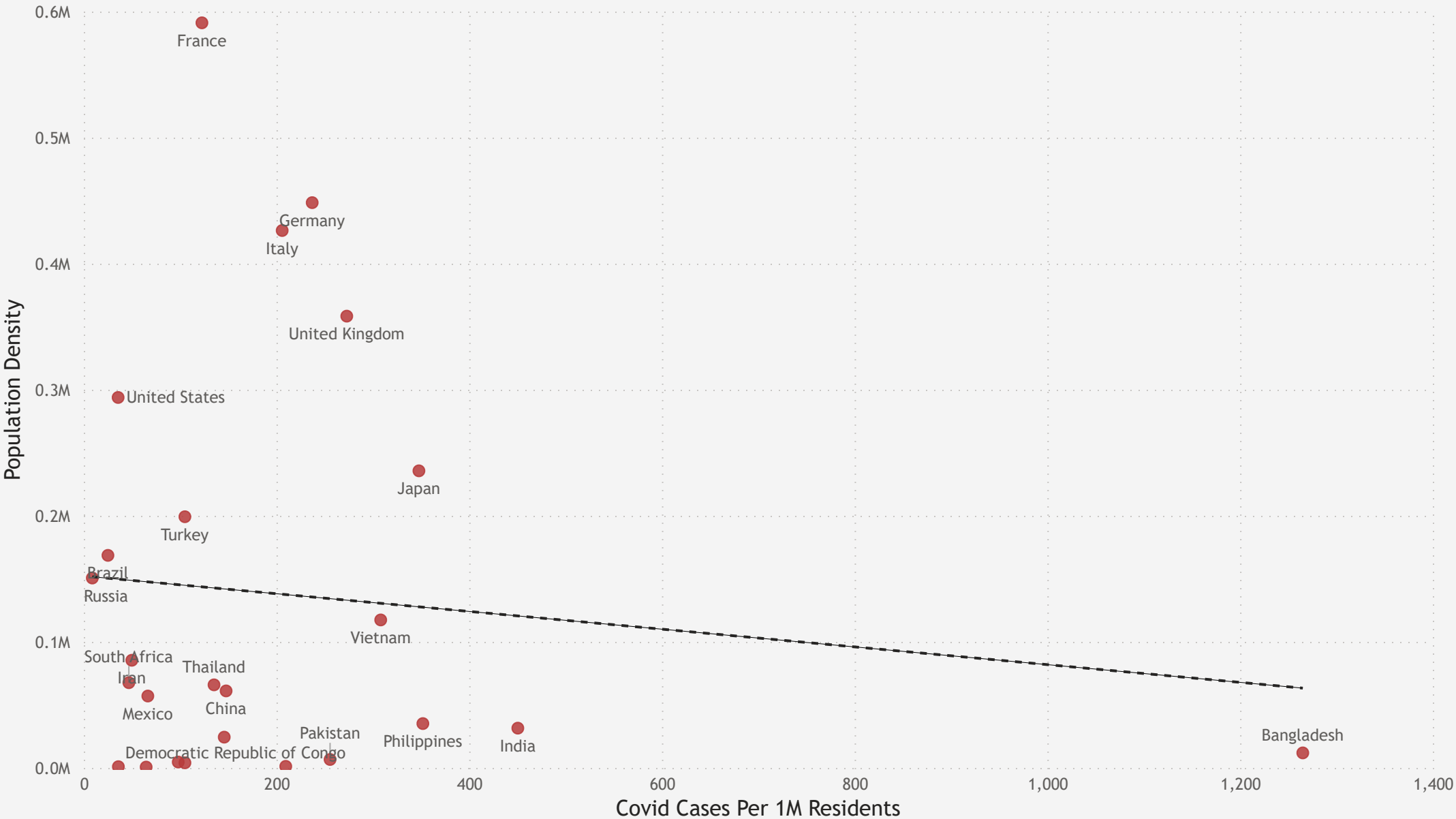
Question 1. Does an early stringent covid policy correlate with a lower number of cases and deaths?

Comparison Of The Total Amount of Cases Per Country and the Average Stringency of the Country's Policies
The data does not indicate any correlation between the two.



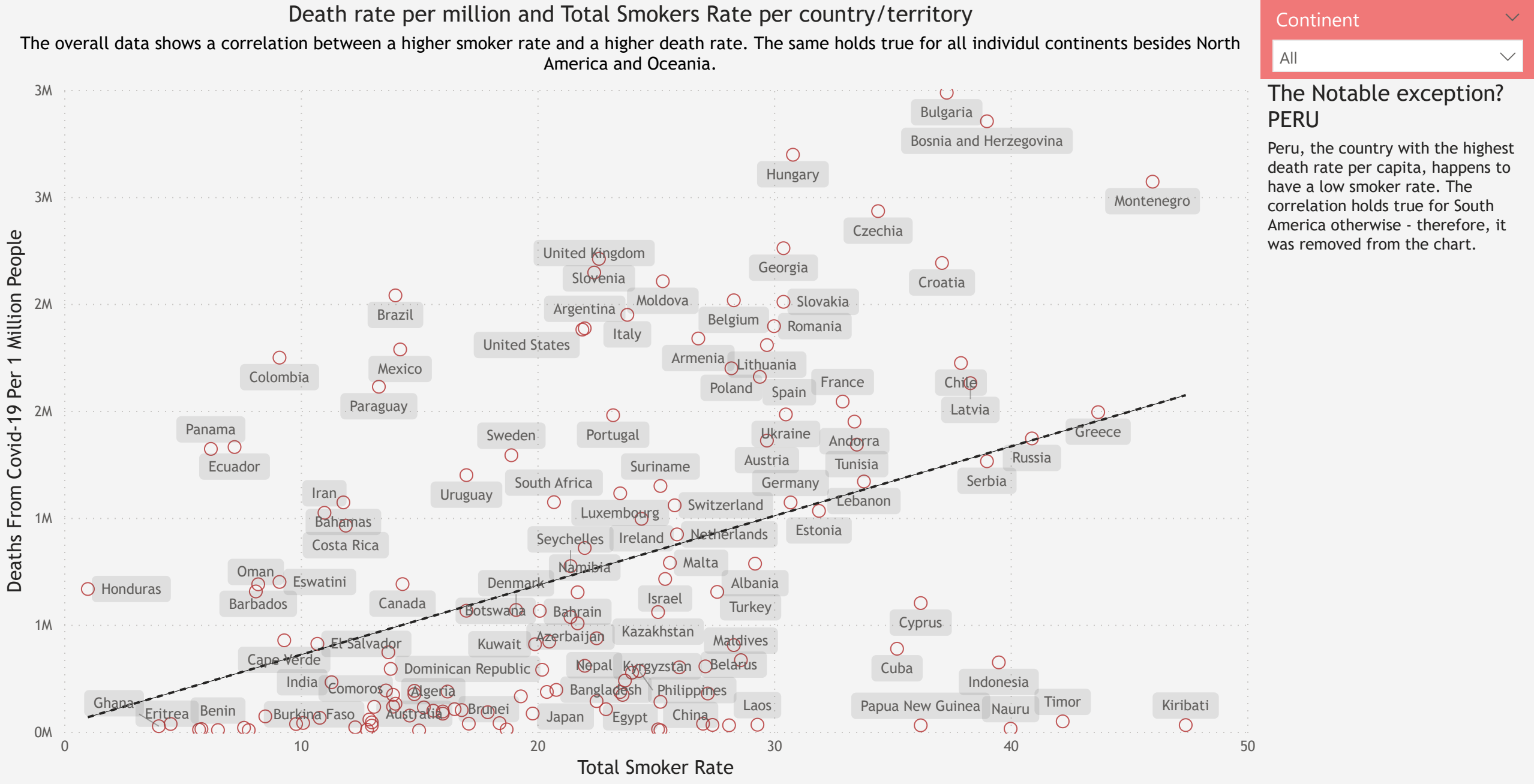
Question 2. Does a higher population density correlate with a higher case rate per capita?

Among the 25 most populated countries, population density was not correlated with a higher case rate per capita. However, this doesn't necessarily hold true in all comparisons. Among the most developed countries and among the least developed countries, a correlation could be found after all.



- HDI Level
- ☐ 4 - Very High
 - ☐ 3 - High
 - ☐ 2 - Medium
 - ☐ 1 - Low

Question 3. Does the rate of Smokers in each country correlate with a higher case/death rate?



Question 4. Which countries had the most stringent policies on average?

Top 10 Most Stringent Countries and Territories

Government Response Stringency Index: composite measure based on 9 response indicators including school closures, workplace closures, and travel bans, rescaled to a value from 0 to 100 (100 = strictest response)

Country/Territory	Average Stringency
China	74.67
Myanmar	64.98
Honduras	64.08
Azerbaijan	61.16
Iran	60.50
Philippines	59.62
Iraq	59.52
Zimbabwe	59.40
Hong Kong	59.17
India	59.00

Year and Quarter

All

Continent

Africa

North America

Asia

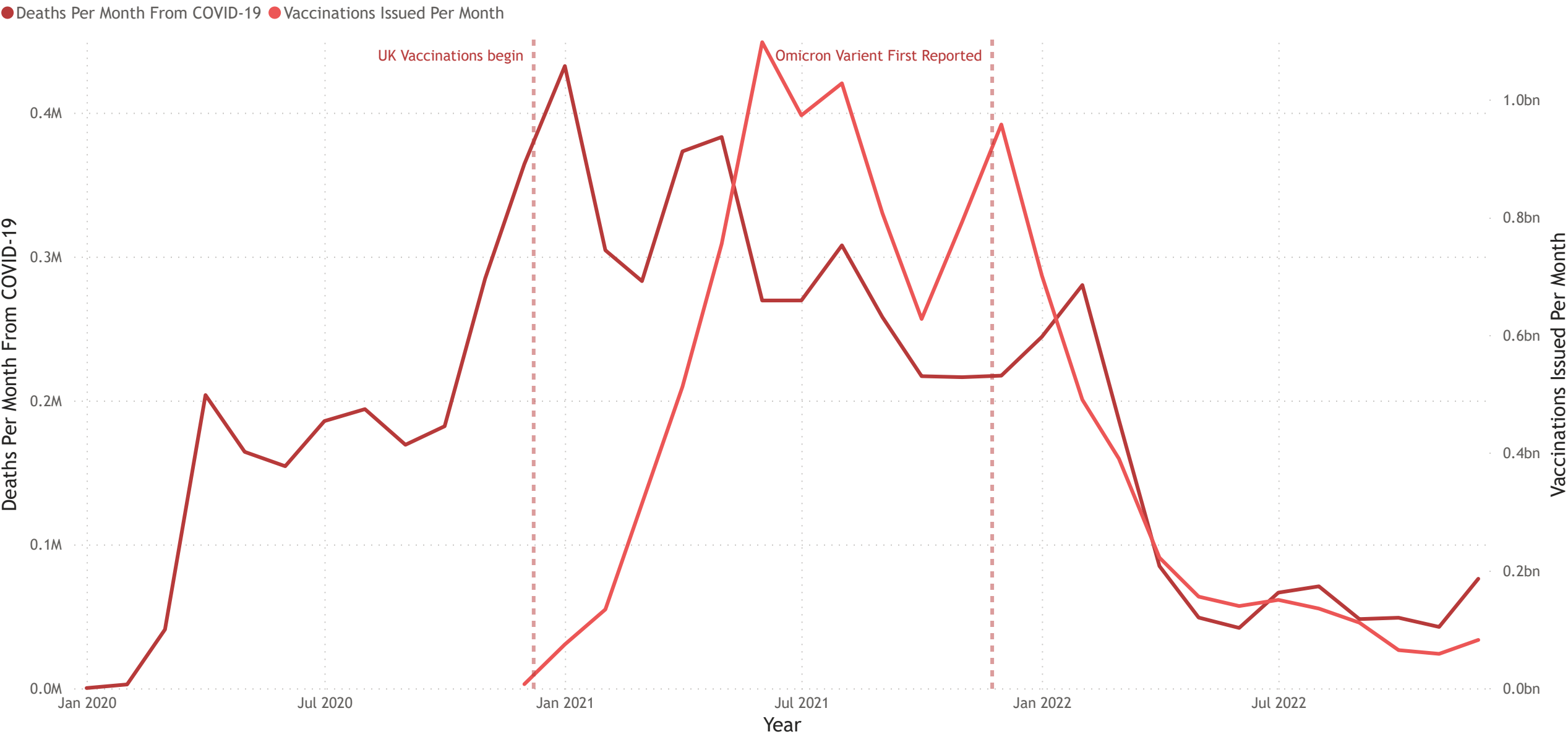
Oceania

Europe

South America

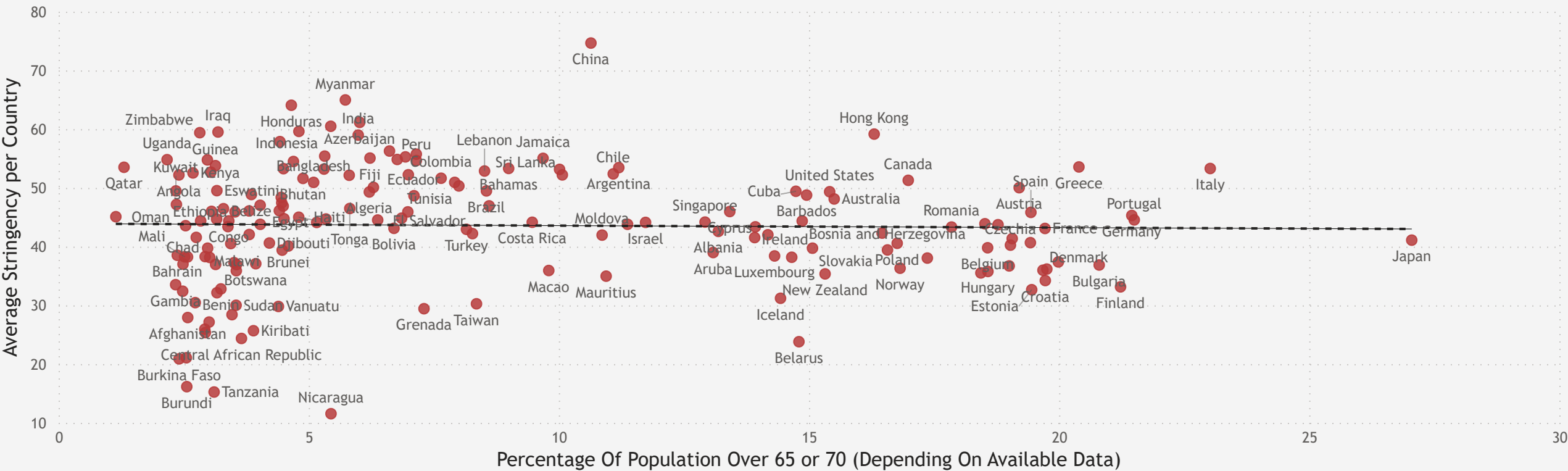
Question 5. How Did the Overall Vaccination Rate Correlate With the Death Rate Over Time?

Once Vaccines Were Introduced - The Death Toll Peaked, And Never Retuned To The Same Heights.
In Addition, Shortly After The Omicron Variant (Late 2021-Early 2022), The Death Rate Began to Fall - Along With a Drop in New Vaccinations. The Trends From That Point Onwards are Correlated.

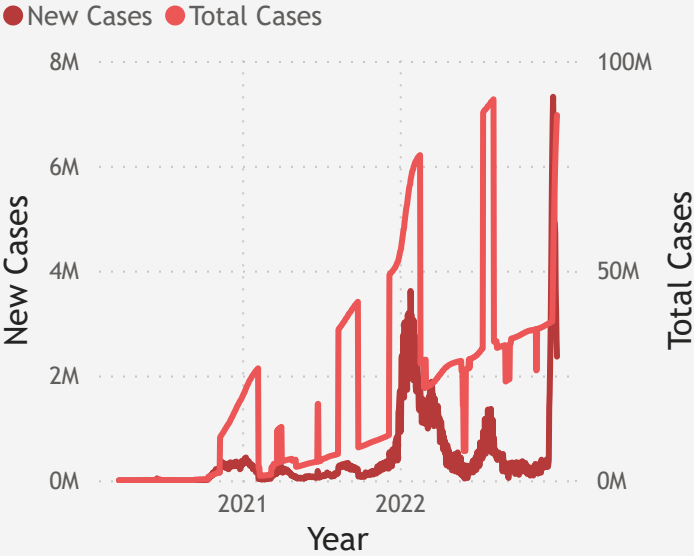


Question 6. Did countries with a higher percentage of older people have a more stringent covid policy overall?

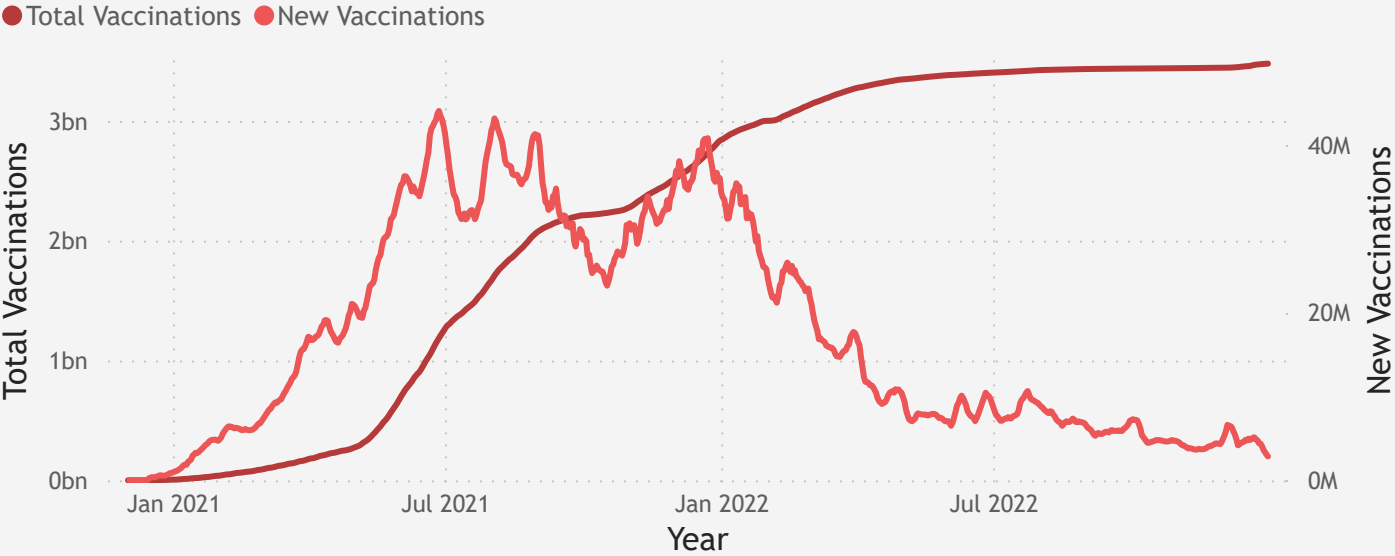
No Correlation Was Found Between the Average Stringency and the Older Population Percentage.
However, such a correlation can be found when focusing on countries with Low or Medium HDI Levels, and surprisingly, a negative correlation was found in the developed world (countries with very high HDI).



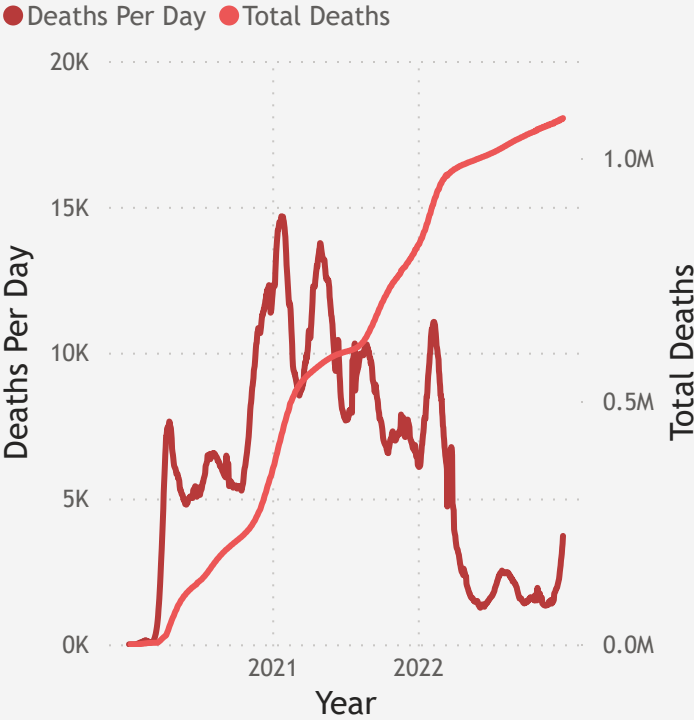
New Cases And Total Cases



Total Vaccinations and New Vaccinations by Year, Month and Day



Deaths Per Day and Total Deaths



30.52

Median Age

73.73

Life Expectancy

Wave Number

All

Country / Territory

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ American Samoa
- ☐ Andorra
- ☐ Angola
- ☐ Anguilla
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Aruba
- ☐ Australia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahamas
- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize