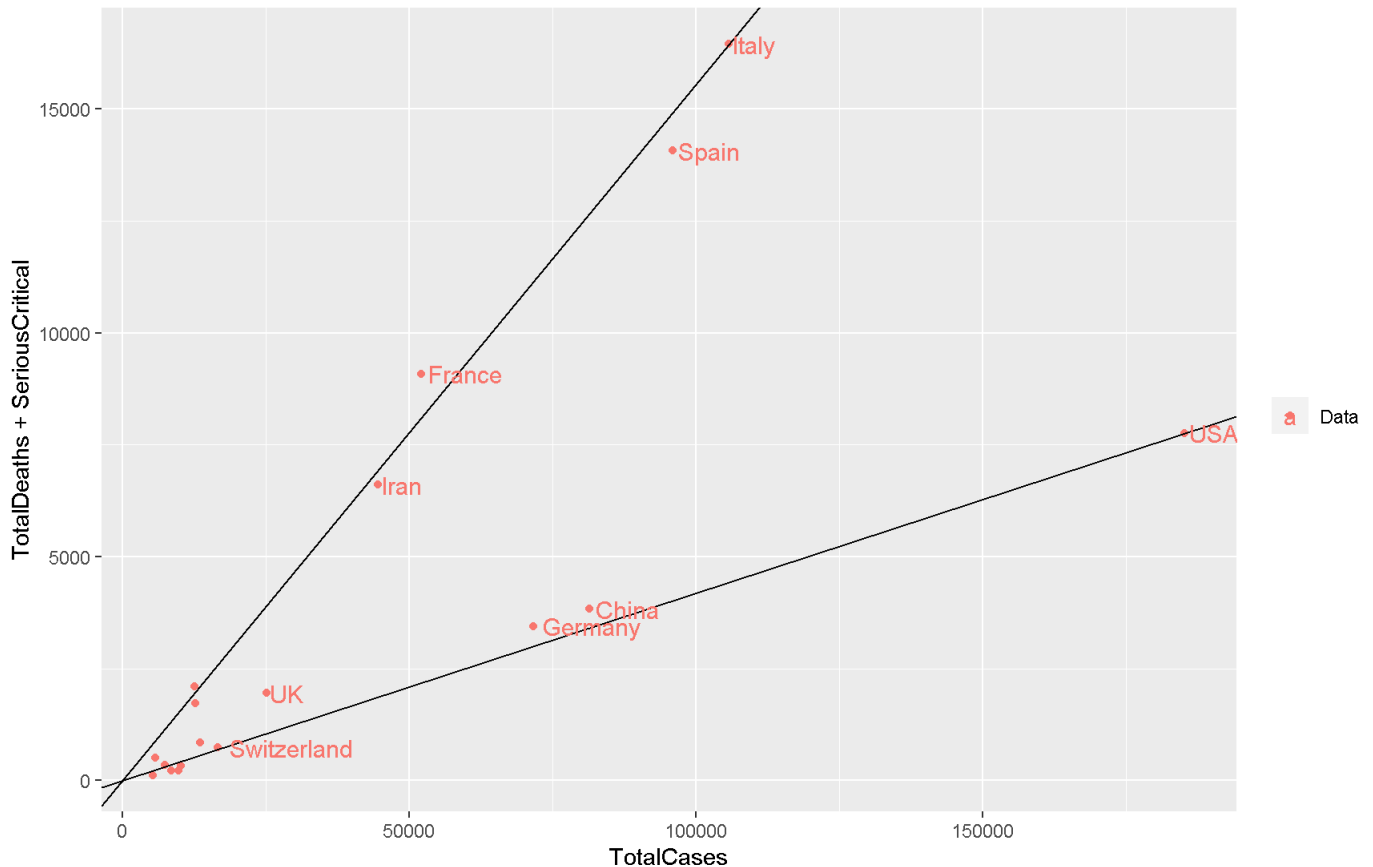


# Gloal Covid testing efficiency comparison (worldometer data)

```
knitr::opts_chunk$set(echo = FALSE, message=FALSE, warning=FALSE, fig.width=9, fig.height=6, fig.path = "figures/")
```

Q: Сравнить разные страны по соотношению числа заболевших и числа осложнений от COVID-19 - это может быть показателем масштабности проводимого тестирования (селективности процедур отбора для него).

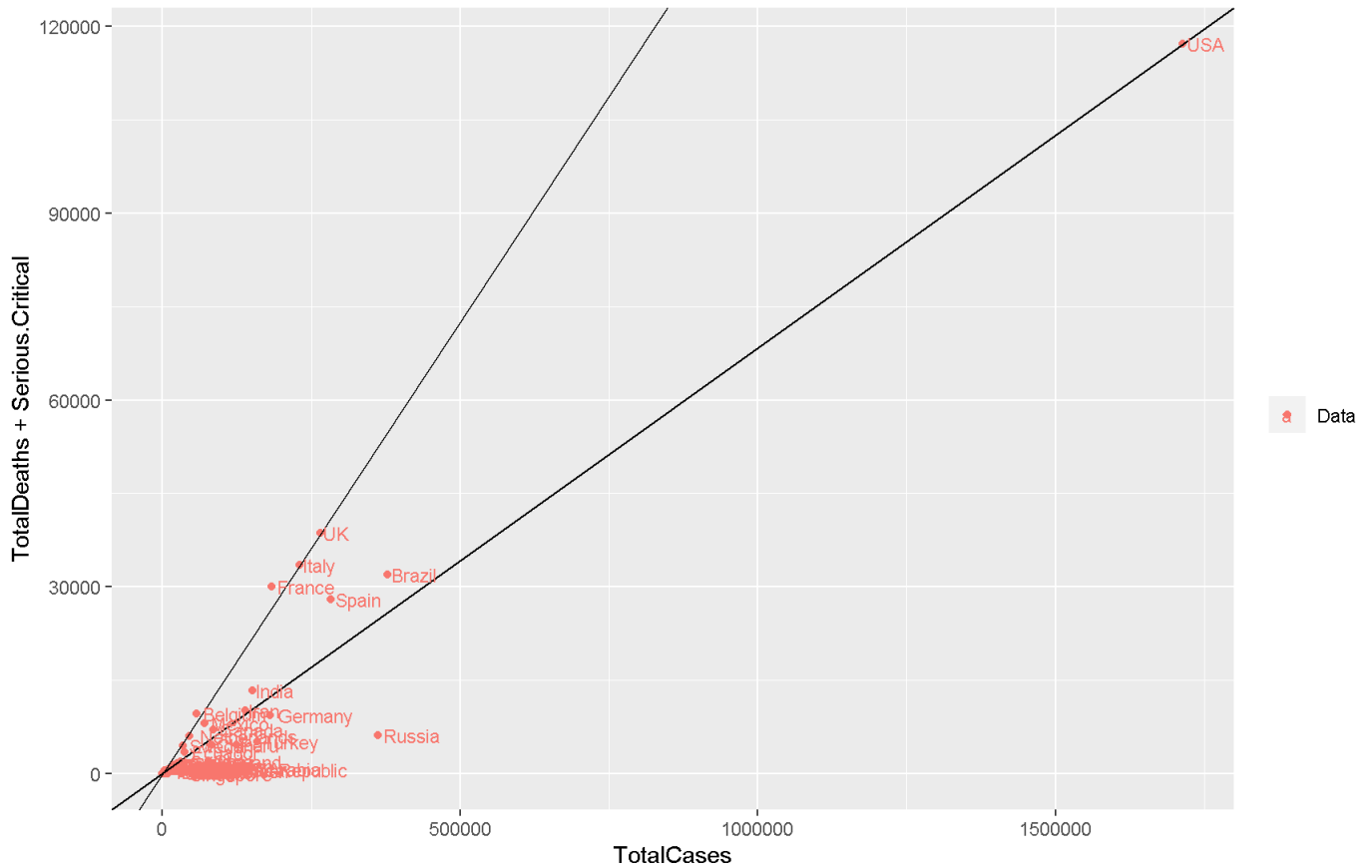
Cases with complications (D+C+S) vs total number of cases 30.03.2020



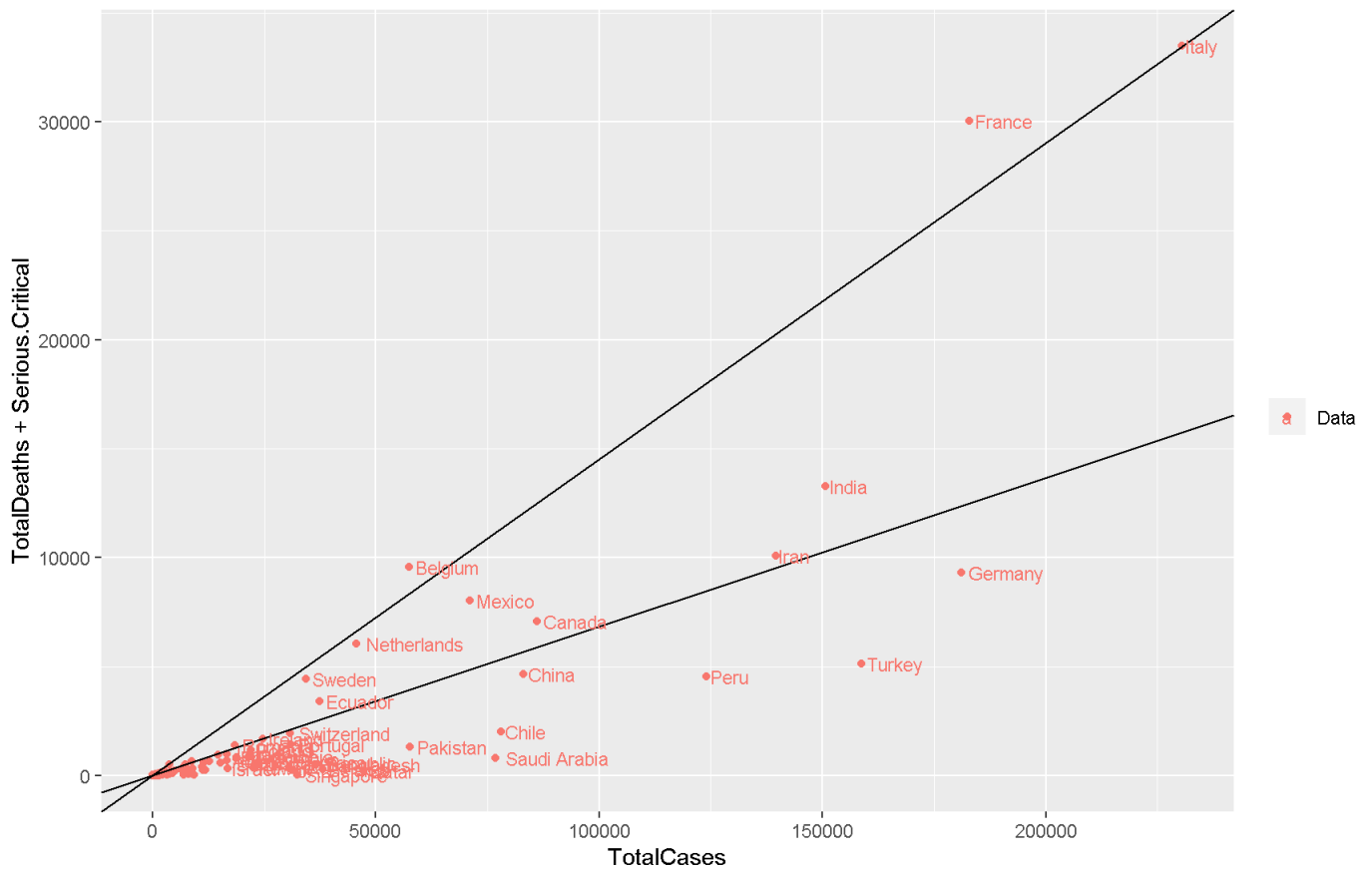
В Германии, США, Китае тестирование, очевидно, выявляет больше случаев болезни, и, соответственно, меньшую долю тяжелых случаев.

Апдейт картинки по последним данным.

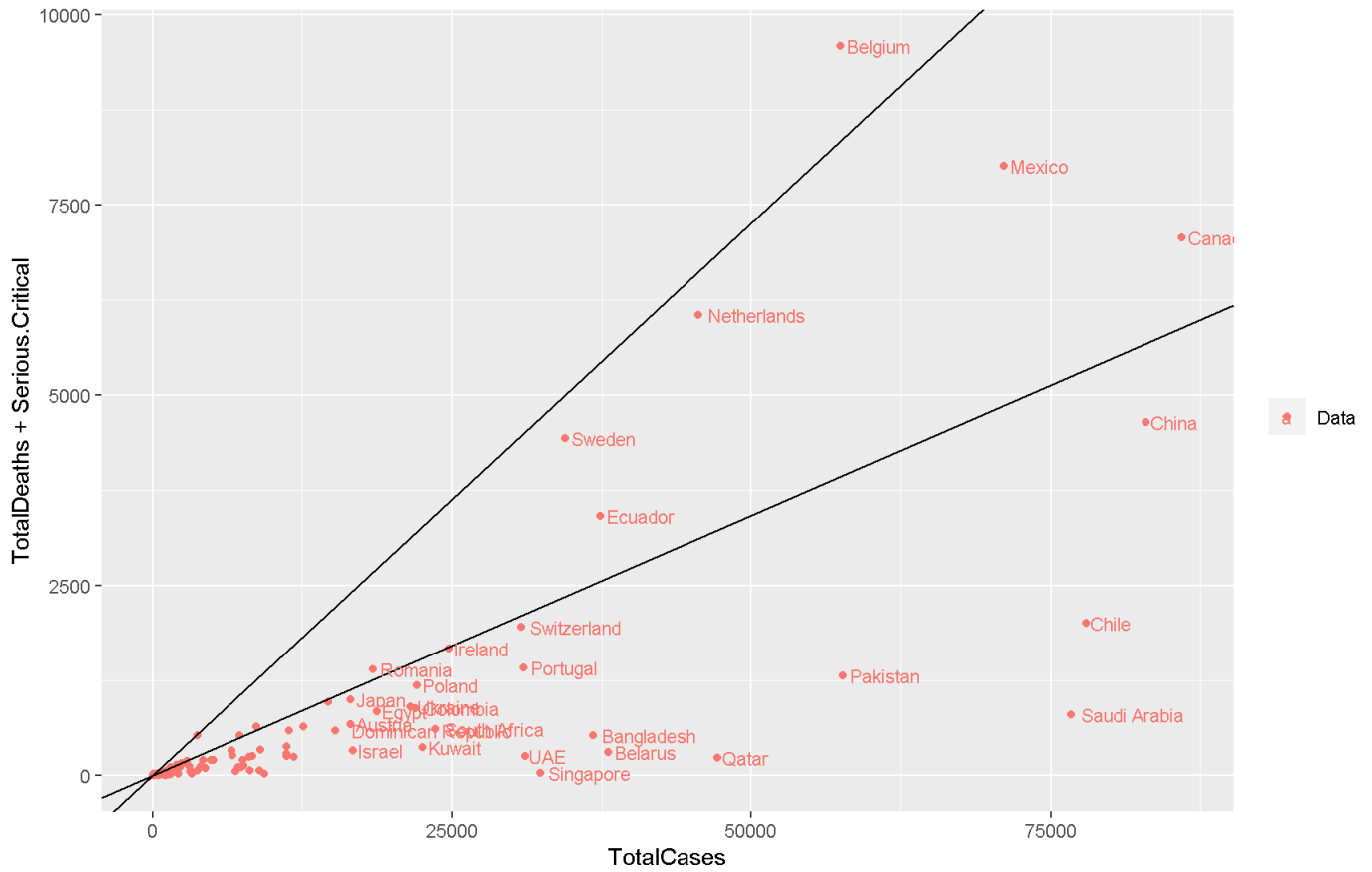
Cases with complications (D+C+S) vs total number of cases 2020-05-26



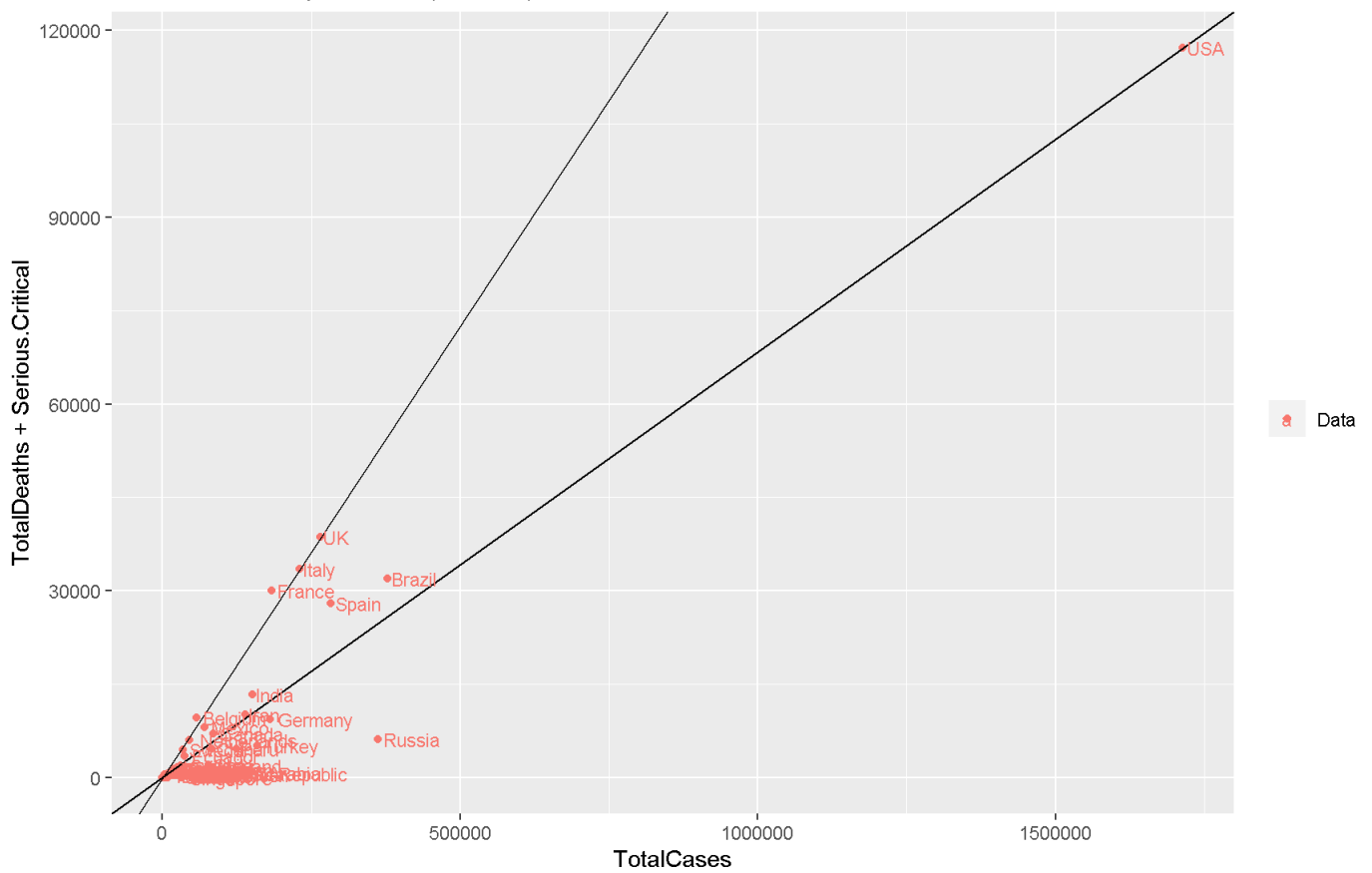
Cases with complications (D+C+S) vs total number of cases 2020-05-26



Cases with complications (D+C+S) vs total number of cases 2020-05-26



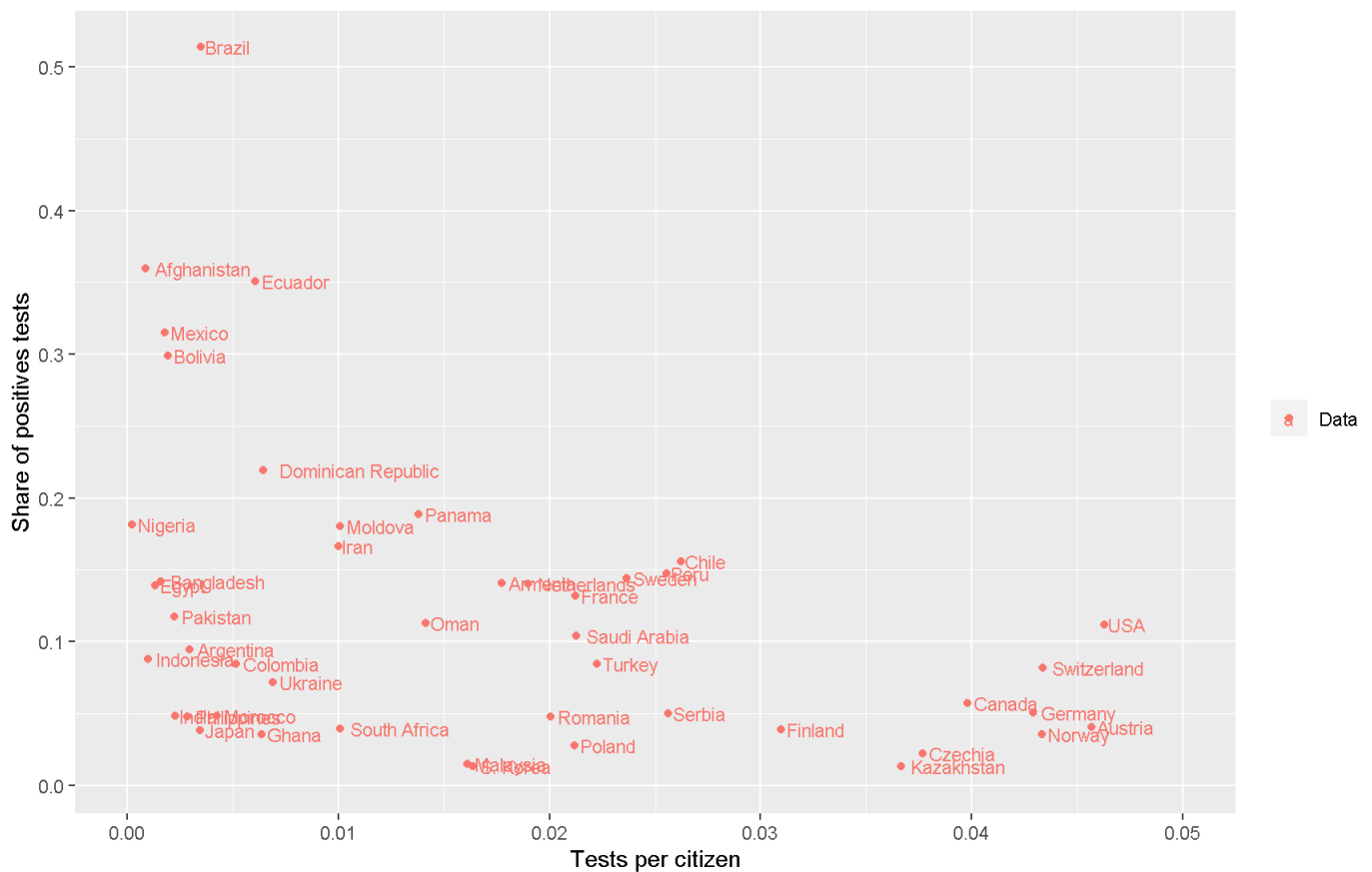
Cases with complications (D+C+S) vs total number of cases 2020-05-26



The scatter plot displays the relationship between TotalCases (x-axis) and NewCases (y-axis) for various countries and regions. The x-axis is on a logarithmic scale from 1e+01 to 1e+06, and the y-axis is on a logarithmic scale from 1e+00 to 1e+04. The data points are colored red, and the top 100 countries are labeled. The plot shows a positive correlation between total and new cases, with a dense cluster of points at higher case counts.

Country/Region	TotalCases (approx.)	NewCases (approx.)
World	1e+06	1e+04
Europe	1e+05	1e+03
North America	1e+05	1e+03
USA	1e+05	1e+03
South America	1e+05	1e+03
UK	1e+05	1e+03
France	1e+05	1e+03
Spain	1e+05	1e+03
India	1e+05	1e+03
Belgium	1e+05	1e+03
Italy	1e+05	1e+03
Germany	1e+05	1e+03
Mexico	1e+05	1e+03
Canada	1e+05	1e+03
Netherlands	1e+05	1e+03
Turkey	1e+05	1e+03
Russia	1e+05	1e+03
Sweden	1e+05	1e+03
Iran	1e+05	1e+03
Ecuador	1e+05	1e+03
Chile	1e+05	1e+03
Switzerland	1e+05	1e+03
Ireland	1e+05	1e+03
Pakistan	1e+05	1e+03
Poland	1e+05	1e+03
Lebanon	1e+05	1e+03
Saudi Arabia	1e+05	1e+03
Algeria	1e+05	1e+03
Ukraine	1e+05	1e+03
Armenia	1e+05	1e+03
Moldova	1e+05	1e+03
Bangladesh	1e+05	1e+03
Panama	1e+05	1e+03
Qatar	1e+05	1e+03
Belarus	1e+05	1e+03
Cameroon	1e+05	1e+03
Oceania	1e+05	1e+03
Amherst	1e+05	1e+03
Qatar	1e+05	1e+03
Kazakhstan	1e+05	1e+03
Ghana	1e+05	1e+03
Bahrain	1e+05	1e+03
Singapore	1e+05	1e+03

Positive tests share vs tests per citizen 2020-05-26



Scatter plot showing the relationship between 'Tests per citizen' (x-axis) and 'Cumulative cases' (y-axis) for various countries. The x-axis ranges from 0.00 to 0.20, and the y-axis ranges from 0.00 to 0.0001. Data points are labeled with country names.

Country	Tests per citizen (x)	Cumulative cases (y)
Qatar	0.055	0.00010
Bahrain	0.17	0.00003
UAE	0.21	0.00001
Spain	0.08	0.00002
Singapore	0.05	0.000015
USA	0.045	0.000012
Kuwait	0.065	0.000012
Belgium	0.07	0.000011
France	0.02	0.000008
Chile	0.03	0.000007
Peru	0.03	0.000006
Sweden	0.03	0.000005
Belarus	0.05	0.000005
Italy	0.055	0.000004
Portugal	0.07	0.000003
Russia	0.06	0.000002
Denmark	0.10	0.000002
Israel	0.06	0.0000015
Australia	0.05	0.000001
Canada	0.04	0.000001
Germany	0.045	0.000001
Austria	0.05	0.000001
Norway	0.055	0.000001
Poland	0.02	0.0000008
France	0.02	0.0000008
Spain	0.02	0.0000008
Italy	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008
Italy	0.02	0.0000008
Spain	0.02	0.0000008
Belgium	0.02	0.0000008
USA	0.02	0.0000008
China	0.02	0.0000008
Japan	0.02	0.0000008
South Korea	0.02	0.0000008
India	0.02	0.0000008
UK	0.02	0.0000008
Germany	0.02	0.0000008
France	0.02	0.0000008

Вывод: данные выглядят достаточно хаотично, вероятно работают и другие факторы.