Excess Mortality and Covid-19 Vaccinations per Capita

| Calculate your risk of excess mortality using the graph below – | | |
|---|----------|------------------------|
| 0 jabs | → | Excess mortality = 0% |
| 1 jab | → | Excess mortality = 3% |
| 2 jabs | → | Excess mortality = 10% |
| 3 jabs | → | Excess mortality = 18% |
| 4 jabs | → | Excess mortality = 26% |
| 5 jabs | → | Excess mortality = 32% |

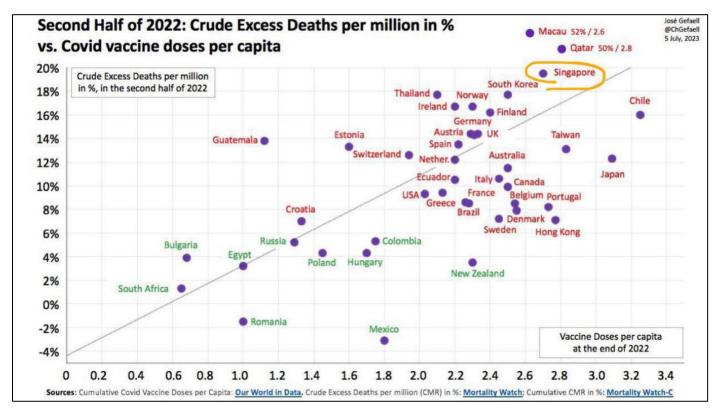
Application of **cluster analysis** algorithms (k-means clustering) using machine learning reveals a clustering of countries into two distinct groups. The one dimensional metric used is excess death as a percentage of the total deaths.

The range and averages for these two groups differ widely -

• Red Group → high excess mortality (6 to 20%)
Note: (Red outliers Macau 52%, Qatar 50%)

• Green Group → low excess mortality (-4 to 6%)

Feature analysis shows that number of jabs received per capita is a predictor of which group cluster a country belongs to.



Linear: This graph has a linear distribution and so can be used to determine your risk of excess mortality based on the number of jabs you have taken. Note, however, amongst the highest vaccinated countries – Macau and Qatar show an excess mortality of 52% and 50% respectively suggesting that at the highest levels of vaccination there may be a rapid increase in excess mortality that deviates from the linear distribution.

Data Sources:

Cumulative Covid Vaccine Doses Per Capita Source: OUR WORLD IN DATA.

Coronavirus (COVID-19) Vaccinations - Our World in Data

Crude Excess Deaths per Million (CMR) in % Source: MORTALITY WATCH & MORTALITY WATCH-C

World's Largest Mortality Data Repository! - Mortality Watch