/These data were gathered from different sources such as literature sources or publicly online databases. This document provides the references that provide the data of the table content.

A wide range of the aspects of the countries (such as sociological, economic, e.g.) that can have any impact on the survival of the SARS-CoV-2 were included as the attributes of the table.

* Countries were selected from <https://covariants.org/per-country> database. Number of countries that were included in this database is 58 (Last Access Time: 10.05.2021). Bonaire and Curacao were excluded in the study due to insufficient information on the selected references. 56 countries with common Sars-CoV-2 variant data were included in the study.

|  |  |  |  |
| --- | --- | --- | --- |
| Variable name | Variable type  | Used in | Data source |
| Population Parameters |  |  |  |
| Population size (in number) | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.populationpyramid.net/>  |
| Urbanization percent of the population | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/SP.URB.TOTL.IN.ZS>  |
| Deaths by indoor air pollution rates | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/indoor-air-pollution?country=>  |
| Deaths by outdoor air pollution rates | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/outdoor-air-pollution>  |
| Deaths by Covid-19 (in number) | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.worldometers.info/coronavirus/?utm_campaign=homeAdvegas1>?  |
| Economic Parameters |  |  |  |
| GDP per capita | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/NY.GDP.PCAP.CD>The fractional numbers rounded to whole numbers,Last entry (current) data was used. |
| Gini index (income inequality) | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/SI.POV.GINI?name_desc=false&view=map&year=2019> The fractional numbers rounded to whole numbers |
| Conflict cases | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://acleddata.com/dashboard/#/dashboard> Total events (reported) were used |
| Corporate Tax Rates | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | https://taxfounhttps://data.worldbank.org/indicator/SI.POV.GINI?name\_desc=false&view=map&year=2019dation.org/publications/corporate-tax-rates-around-the-world/ The fractional numbers rounded to whole numbers. |
| Average Household Size: Number of members | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://population.un.org/Household/index.html#/countries/533>  |
| Diet Parameters |  |  |  |
| Prevalence of Total Overweight Adults | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://apps.who.int/gho/data/view.main.CTRY2430A?lang=en> Last entry (current) data was used (2016),The fractional numbers rounded to whole numbers. |
| Consumption of the Vegetable Oil | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldobesity.org/maps-obesity-day/?mapid=62> This database uses the data of the FAO (Food and Agriculture of the United Nations : http://www.fao.org/faostat/en/#data/FBS ) and visualize the data.The fractional numbers rounded to whole numbers. |
| Consumption of the Animal Fat | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldobesity.org/maps-obesity-day/?mapid=62> This database uses the data of the FAO (Food and Agriculture of the United Nations : http://www.fao.org/faostat/en/#data/FBS ) and visualize the data.The fractional numbers rounded to whole numbers. |
| Consumption of Sugars | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldobesity.org/maps-obesity-day/?mapid=62> This database uses the data of the FAO (Food and Agriculture of the United Nations : http://www.fao.org/faostat/en/#data/FBS ) and visualize the data.The fractional numbers rounded to whole numbers. |
| Prevalence of undernourishment by percentage | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/SN.ITK.DEFC.ZS>  |
| Micronutrient Deficiency Parameters |  |  |  |
| Prevalence of Vitamin A deficiency | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/prevalence-of-vitamin-a-deficiency-in-children?tab=table> The fractional numbers rounded to whole numbers. |
| Vitamin D status Around the World | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.osteoporosis.foundation/educational-hub/topic/vitamin-d> The fractional numbers rounded to whole numbers. |
| Global prevalence of Zinc Deficiency | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/global-prevalence-of-zinc-deficiency> Most recent data was used,The fractional numbers rounded to whole numbers. |
| Iodine Levels | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.who.int/vmnis/iodine/status/summary/IDD_estimates_table_2007.pdf?ua=1>  |
| Environmental Parameters |  |  |  |
| Exposure to Solar UV Radiation | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://apps.who.int/gho/data/view.main.35300> For the countries that have not any information about sunlight exposure in this application, the information of the nearest country was used (for Aruba, Venezuela used.) |
| Avarage temperature | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://worldpopulationreview.com/country-rankings/hottest-countries-in-the-world>  |
| Forest Area | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/AG.LND.FRST.ZS>  |
| Average Precipitation | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://data.worldbank.org/indicator/AG.LND.PRCP.MM>  |
| Air Toxicity Levels | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.iqair.com/world-air-quality-ranking> For countries that have more than one entry, the most toxic city data was used. |
| General Toxicity Levels  | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.iqair.com/world-most-polluted-countries>  |
| CO2 Emissions per capita | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | https://ourworldindata.org/co2-emissions |
| Diseases Parameters |  |  |  |
| Anemia in pregnant women | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/anemia-pregnant-women-vs-children?tab=table> The fractional numbers rounded to whole numbers. |
| CANCER (For All Types of Cancer)  | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | https://gco.iarc.fr/today/online-analysis-map?v=2020&mode=population&mode\_population=continents&population=900&populations=900&key=asr&sex=0&cancer=39&type=0&statistic=5&prevalence=0&population\_group=0&ages\_group%5B%5D=0&ages\_group%5B%5D=17&nb\_items=10&group\_cancer=1&include\_nmsc=1&include\_nmsc\_other=1&projection=natural-earth&color\_palette=default&map\_scale=quantile&map\_nb\_colors=5&continent=0&show\_ranking=0&rotate=%255B10%252C0%255D  |
| Lung Cancer | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/lung-cancer-deaths-per-100000-by-sex-1950-2002?tab=table>  |
| Asthma | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/asthma-prevalence>  |
| COPD | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | Data used from the Number of Deaths by COPD per million section in this database. |
| Pneumonia | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/pneumonia-death-rates-age-standardized>  |
| NDCs (Non-communicable Diseases) | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/burden-of-disease-rates-from-ncds?tab=table> To get more information about NDCs: https://ourworldindata.org/burden-of-disease |
| Diabetes | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/diabetes-prevalence>  |
| Diarrheal Diseases | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://ourworldindata.org/grapher/diarrheal-disease-death-rates>  |
| Colorectal Cancer | Independent variable | Multi-Linear Regression Analysis,Bi-variate Corelation Analysis | <https://www.worldgastroenterology.org/UserFiles/file/wdhd-2008-map-of-digestive-disorders.pdf> The data of “Global Colorectal Cancer Incidence” section was used, The sum of female and male incidence rates was used. |