Supplement to Effect of COVID-19 burden on changes in HPV vaccination coverage among females between 2019 and 2022

# 1. Supplemental Information

## 1.1 Table of contents

* Code and file information
* Country characteristic details

# 2. Code and file information

Explain here what each code/file is and does, and in which order (if any) users need to run thing to reproduce everything. Essentially, give a full set of instructions to re-generate everything.

# 3. Country characteristic details

The following list provides additional details for each country-level characteristics, including data source - World Health Organization (WHO) or United Nations (UN)

* HPV vaccination coverage (WHO)
  + HPV vaccination coverage in 2022
  + HPV vaccination coverage in 2019
* HPV vaccination program characteristics (WHO)
  + WHO region
  + World Bank country income level
  + Indicator for whether HPV vaccine is offered through a national recommendation
  + Year of HPV vaccine program introduction
  + Primary HPV vaccine delivery strategy (e.g., school-based)
  + Indicator for gender neutral vaccination (i.e., female-only vaccination or females and males)
  + Recommended number of doses (1 or 2)
* United Nations country demographic data (UN)
  + Total Population, as of 1 July (thousands)
  + Population Density, as of 1 July (persons per square km)
  + Median Age, as of 1 July (years)
  + Population Growth Rate (percentage)
  + Total Fertility Rate (live births per woman)
  + Crude Death Rate (deaths per 1,000 population)
  + Life Expectancy at Birth, both sexes (years)
  + Net Migration Rate (per 1,000 population)
* COVID burden through Dec. 31, 2022 (WHO)
  + Cumulative number of COVID cases per 100,000 persons
  + Cumulative number of COVID deaths per 100,000 persons

# 4. Additional Analyses

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| Figure 1: Scatterplot of difference in HPV vaccination coverage between 2019 and 2022 and cumulative COVID deaths per 100,000 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 1: Parameter estimates for median age adjusted linear regression   | term | estimate | std.error | statistic | p.value | | --- | --- | --- | --- | --- | | (Intercept) | -39.0680653 | 9.3303322 | -4.1872105 | 0.0000631 | | Cumulative\_case\_rate | -0.0001824 | 0.0004832 | -0.3774436 | 0.7066859 | | median\_age | 1.1126973 | 0.3613828 | 3.0789991 | 0.0027154 | |