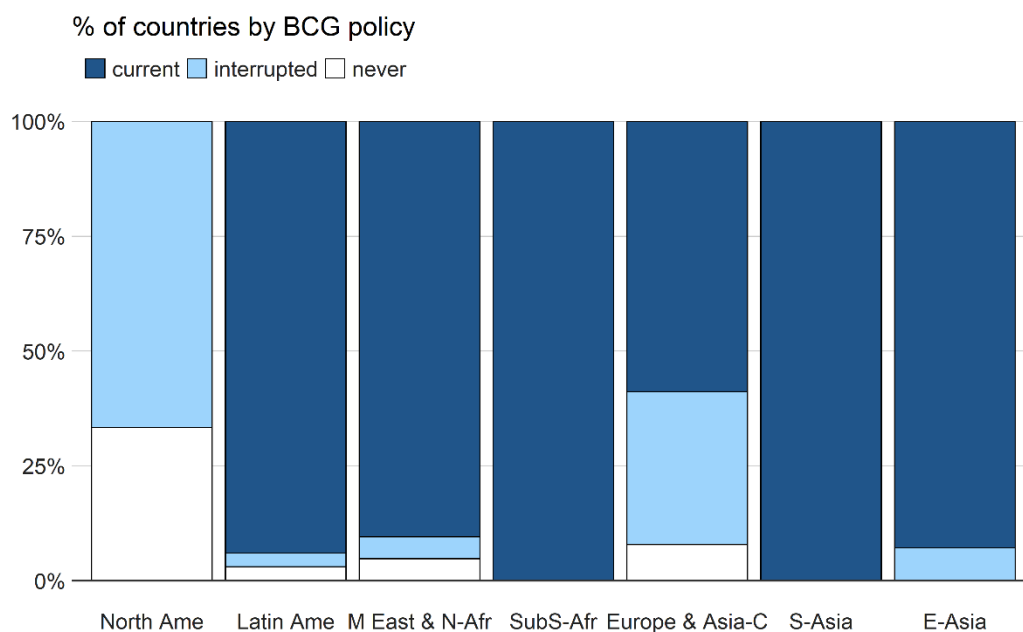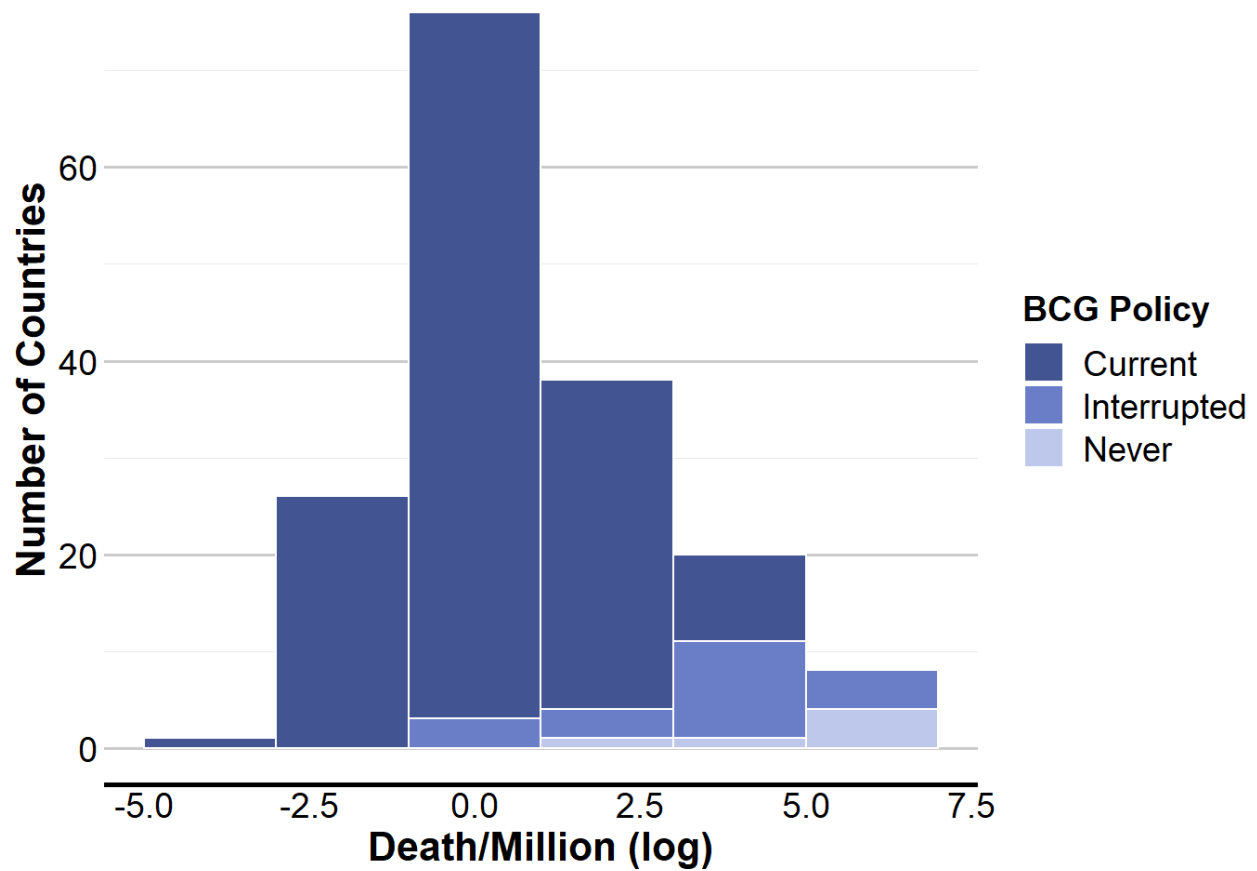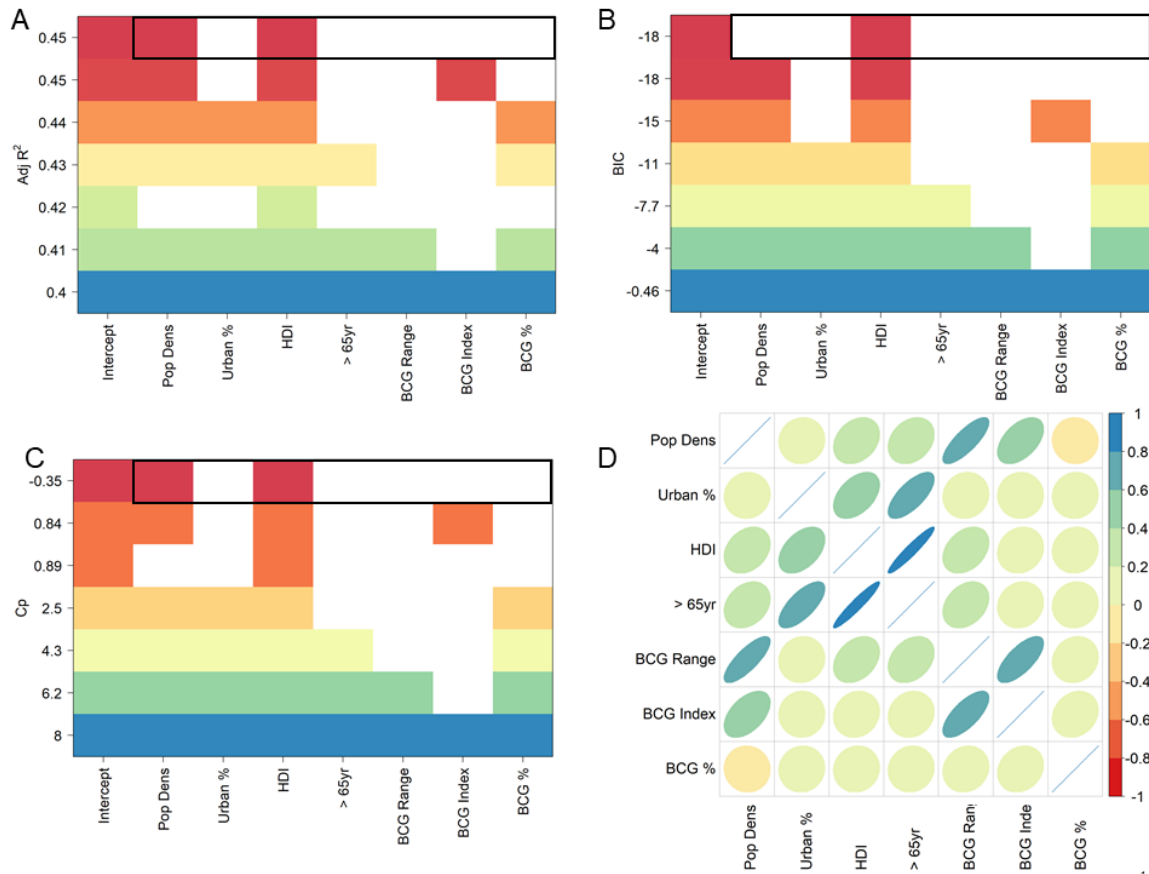**Figure S1. Relation between Human Development Index and COVID-19 deaths per million (log).** BCG policy: current vaccination (dark blue), interrupted vaccination (blue), and never implemented BCG vaccination program (light blue). United States analyzed as states. Table S1 contains the summary of results between confounding variables and COVID-19 mortality.

**Figure S2. BCG vaccination policies by world region.** Percentage of countries by region in terms of their BCG policy: current vaccination (dark blue), interrupted vaccination (blue), and never implemented BCG vaccination program (light blue). North Ame=North America; Latin Ame=Latin America; M East & N-Afr=Middle East and North Africa; SubS-Afr=Sub Sahara Africa; Europe & Asia-C=Europe and Asia Central; S-Asia=South Asia; E-Asia=East Asia. United States analyzed as a country.

**Figure S3. Histogram o BCG vaccination policies and COVID-19.** BCG policy denoting current vaccination (dark blue), interrupted vaccination (blue), and never implemented BCG vaccination program (light blue) and (log) total deaths per country per 1 M inhabitants. United States analyzed as a country.

**Figure S4. Multivariate model of COVID-19 mortality.** We developed multiple linear regression models using (log) COVID-19 deaths accumulated during the first month of reported mortalities for all countries as dependent variable and the potential confounding variables and BCG data as the predictor variables. Statistic diagnostic metrics were used to determine the best variable combination and select the optimal model for COVID-19 death estimation. The regression model diagnostic procedure included the adjusted Bayesian information criterion (BIC) which measures model error adjusted by number of variables; adjusted $r^2$, which measures the proportion of variation in the dependent variable that is explained by the predictor variables adjusted by number of variables; and the Mallow's $C_p$, which measures model error accounting for sample size, and number and collinearity of predictors. **A.** The adjusted $r^2$ evaluation found that the best model should include two variables, population density and HDI (square). **B.** The BIC evaluation found HDI as the best variable for the model (square). **C.** The Mallow's $C_p$ evaluation also found that the best model should include density and HDI (square). **D.** Correlogram denoting high (narrow ellipsoid) or none (broad ellipsoid and yellow color) correlation. All correlations were positive (ellipsoid direction to the right and blue color). The best variable combination was HDI and population density, which significantly predicted COVID-19 deaths/country/first month of mortality ($r^2$=0.49, $F(2,113)$=55.57, $p$<0.001). **HDI**: Human Development Index; **Pop Dens**: Population density; **Urban %**: Percentage urbanization; **>65 yr**: Population above >65 yrs (%); **BCG %**: Percentage of population vaccinated annually using BCG; **BCG Range**: Number of years of BCG vaccination program; **BCG Index**: Combination of percentage of population vaccinated annually using BCG and number of years of BCG vaccination program by country.

**Supplementary Table S1. Correlation analyses between social variables and COVID-19 mortality.** Analyses included the United States as a single country (**Coarse analysis (United States as a Country)**) and by state (**Coarse analysis (United States as states)**), because some of its states are larger than many European, Asian, and Latin American countries. Analyses were conducted globally before and after controlling for confounding variables (**Refined analysis (Controlling Confounding Variables)**). Mortality values are based on original numbers by country and corrected by the country's population and by the time of the epidemic to allow standardized evaluations. Significant analysis (p<0.05) are denoted in red. **DF**= degrees of freedom, **R²**= correlation coefficient, **AIC**=Akaike's information criteria. Note that association decreases considerably after accounting for controlling variables. Pop Dens: Population Density (inhabitants/km²); Urban (%): Percentage of population in urban areas; HDI: Human Development Index; >65 years: Percentage of population that is >65 year-old.

| Dependent Variable | Independent Variable | DF | R² | P-Value | AIC |
|---|---|---|---|---|---|
| **Coarse analysis (United States as states)** | | | | | |
| Deaths/1 M (Total) | Pop Dens | 1 | 0.001 | 0.588 | 2914.320 |
| Days to 0.1 Death/1 M | Pop Dens | 1 | 0.001 | 0.625 | 1279.182 |
| Days to 1 Death/1 M | Pop Dens | 1 | 0.007 | 0.304 | 1206.722 |
| Deaths/day/1 M (mean) | Pop Dens | 1 | 0.004 | 0.385 | 1056.207 |
| Deaths/day/1 M (median) | Pop Dens | 1 | 0.000 | 0.939 | 915.769 |
| Deaths/day/1 M (max) | Pop Dens | 1 | 0.029 | 0.015 | 1764.574 |
| Deaths/1 M/week 3 (Total) | Pop Dens | 1 | 0.012 | 0.142 | 1756.090 |
| Deaths/1 M/week 3 (median) | Pop Dens | 1 | 0.000 | 0.929 | 787.638 |
| Deaths/1 M/week 3 (mean) | Pop Dens | 1 | 0.012 | 0.142 | 1063.340 |
| Deaths/1 M/week 3 (max) | Pop Dens | 1 | 0.060 | 0.001 | 1451.154 |
| Deaths/1 M/month 1 (Total) | Pop Dens | 1 | 0.002 | 0.596 | 1499.382 |
| Deaths/1 M/month 1 (median) | Pop Dens | 1 | 0.001 | 0.735 | 511.885 |
| Deaths/1 M/month 1 (mean) | Pop Dens | 1 | 0.002 | 0.597 | 655.847 |
| Deaths/1 M/month 1 (max) | Pop Dens | 1 | 0.003 | 0.526 | 1075.932 |
| Deaths/1 M log (Total) | Pop Dens | 1 | 0.005 | 0.311 | 898.985 |
| Deaths/day/1 M log (mean) | Pop Dens | 1 | 0.007 | 0.249 | 872.667 |
| Deaths/day/1 M log (median) | Pop Dens | 1 | 0.006 | 0.402 | 472.296 |
| Deaths/day/1 M log (max) | Pop Dens | 1 | 0.016 | 0.073 | 836.233 |
| Deaths/1 M/week 3 log (Total) | Pop Dens | 1 | 0.012 | 0.176 | 678.003 |
| Deaths/1 M/week 3 log (median) | Pop Dens | 1 | 0.009 | 0.313 | 456.243 |
| Deaths/1 M/week 3 log (mean) | Pop Dens | 1 | 0.012 | 0.177 | 676.995 |
| Deaths/1 M/week 3 log (max) | Pop Dens | 1 | 0.026 | 0.043 | 646.020 |
| Deaths/1 M/month 1 log (Total) | Pop Dens | 1 | 0.001 | 0.788 | 532.055 |
| Deaths/1 M/month 1 log (median) | Pop Dens | 1 | 0.010 | 0.348 | 368.584 |
| Deaths/1 M/month 1 log (mean) | Pop Dens | 1 | 0.001 | 0.780 | 531.682 |
| Deaths/1 M/month 1 log (max) | Pop Dens | 1 | 0.000 | 0.831 | 507.402 |
| Deaths/1 M (Total) | Urban (%) | 1 | 0.099 | 0.000 | 2925.364 |

| | | | | | |
|---|---|---|---|---|---|
| Days to 0.1 Death/1 M | Urban (%) | 1 | 0.074 | 0.000 | 1309.837 |
| Days to 1 Death/1 M | Urban (%) | 1 | 0.000 | 0.783 | 1200.273 |
| Deaths/day/1 M (mean) | Urban (%) | 1 | 0.099 | 0.000 | 1040.405 |
| Deaths/day/1 M (median) | Urban (%) | 1 | 0.076 | 0.000 | 903.314 |
| Deaths/day/1 M (max) | Urban (%) | 1 | 0.070 | 0.000 | 1763.694 |
| Deaths/1 M/week 3 (Total) | Urban (%) | 1 | 0.065 | 0.001 | 1764.073 |
| Deaths/1 M/week 3 (median) | Urban (%) | 1 | 0.067 | 0.000 | 782.223 |
| Deaths/1 M/week 3 (mean) | Urban (%) | 1 | 0.065 | 0.001 | 1063.541 |
| Deaths/1 M/week 3 (max) | Urban (%) | 1 | 0.054 | 0.002 | 1466.704 |
| Deaths/1 M/month 1 (Total) | Urban (%) | 1 | 0.104 | 0.000 | 1508.242 |
| Deaths/1 M/month 1 (median) | Urban (%) | 1 | 0.065 | 0.004 | 510.036 |
| Deaths/1 M/month 1 (mean) | Urban (%) | 1 | 0.104 | 0.000 | 651.121 |
| Deaths/1 M/month 1 (max) | Urban (%) | 1 | 0.088 | 0.001 | 1080.245 |
| Deaths/1 M log (Total) | Urban (%) | 1 | 0.254 | 0.000 | 847.856 |
| Deaths/day/1 M log (mean) | Urban (%) | 1 | 0.231 | 0.000 | 829.093 |
| Deaths/day/1 M log (median) | Urban (%) | 1 | 0.153 | 0.000 | 453.241 |
| Deaths/day/1 M log (max) | Urban (%) | 1 | 0.218 | 0.000 | 795.271 |
| Deaths/1 M/week 3 log (Total) | Urban (%) | 1 | 0.238 | 0.000 | 652.232 |
| Deaths/1 M/week 3 log (median) | Urban (%) | 1 | 0.194 | 0.000 | 432.300 |
| Deaths/1 M/week 3 log (mean) | Urban (%) | 1 | 0.238 | 0.000 | 651.372 |
| Deaths/1 M/week 3 log (max) | Urban (%) | 1 | 0.231 | 0.000 | 621.102 |
| Deaths/1 M/month 1 log (Total) | Urban (%) | 1 | 0.248 | 0.000 | 515.794 |
| Deaths/1 M/month 1 log (median) | Urban (%) | 1 | 0.211 | 0.000 | 347.252 |
| Deaths/1 M/month 1 log (mean) | Urban (%) | 1 | 0.246 | 0.000 | 515.835 |
| Deaths/1 M/month 1 log (max) | Urban (%) | 1 | 0.250 | 0.000 | 487.056 |
| Deaths/1 M (Total) | HDI | 1 | 0.123 | 0.000 | 2659.118 |
| Days to 0.1 Death/1 M | HDI | 1 | 0.117 | 0.000 | 1212.673 |
| Days to 1 Death/1 M | HDI | 1 | 0.082 | 0.000 | 1124.599 |
| Deaths/day/1 M (mean) | HDI | 1 | 0.125 | 0.000 | 921.263 |
| Deaths/day/1 M (median) | HDI | 1 | 0.101 | 0.000 | 844.645 |
| Deaths/day/1 M (max) | HDI | 1 | 0.095 | 0.000 | 1537.169 |
| Deaths/1 M/week 3 (Total) | HDI | 1 | 0.108 | 0.000 | 1423.723 |
| Deaths/1 M/week 3 (median) | HDI | 1 | 0.107 | 0.000 | 729.857 |
| Deaths/1 M/week 3 (mean) | HDI | 1 | 0.108 | 0.000 | 773.760 |
| Deaths/1 M/week 3 (max) | HDI | 1 | 0.108 | 0.000 | 1005.717 |
| Deaths/1 M/month 1 (Total) | HDI | 1 | 0.114 | 0.000 | 1342.062 |
| Deaths/1 M/month 1 (median) | HDI | 1 | 0.080 | 0.002 | 479.930 |
| Deaths/1 M/month 1 (mean) | HDI | 1 | 0.114 | 0.000 | 546.087 |
| Deaths/1 M/month 1 (max) | HDI | 1 | 0.134 | 0.000 | 854.510 |
| Deaths/1 M log (Total) | HDI | 1 | 0.623 | 0.000 | 649.287 |
| Deaths/day/1 M log (mean) | HDI | 1 | 0.606 | 0.000 | 637.164 |
| Deaths/day/1 M log (median) | HDI | 1 | 0.434 | 0.000 | 381.678 |
| Deaths/day/1 M log (max) | HDI | 1 | 0.546 | 0.000 | 626.506 |

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|---|---|---|---|---|---|
| Deaths/1 M/week 3 log (Total) | HDI | 1 | 0.505 | 0.000 | 527.312 |
| Deaths/1 M/week 3 log (median) | HDI | 1 | 0.514 | 0.000 | 344.079 |
| Deaths/1 M/week 3 log (mean) | HDI | 1 | 0.511 | 0.000 | 524.324 |
| Deaths/1 M/week 3 log (max) | HDI | 1 | 0.485 | 0.000 | 499.179 |
| Deaths/1 M/month 1 log (Total) | HDI | 1 | 0.538 | 0.000 | 422.392 |
| Deaths/1 M/month 1 log (median) | HDI | 1 | 0.503 | 0.000 | 284.851 |
| Deaths/1 M/month 1 log (mean) | HDI | 1 | 0.543 | 0.000 | 420.793 |
| Deaths/1 M/month 1 log (max) | HDI | 1 | 0.535 | 0.000 | 393.861 |
| Deaths/1 M (Total) | >65 yrs | 1 | 0.128 | 0.000 | 2708.633 |
| Days to 0.1 Death/1 M | >65 yrs | 1 | 0.046 | 0.003 | 1280.570 |
| Days to 1 Death/1 M | >65 yrs | 1 | 0.028 | 0.036 | 1150.943 |
| Deaths/day/1 M (mean) | >65 yrs | 1 | 0.109 | 0.000 | 935.356 |
| Deaths/day/1 M (median) | >65 yrs | 1 | 0.106 | 0.000 | 846.402 |
| Deaths/day/1 M (max) | >65 yrs | 1 | 0.060 | 0.001 | 1596.830 |
| Deaths/1 M/week 3 (Total) | >65 yrs | 1 | 0.089 | 0.000 | 1444.094 |
| Deaths/1 M/week 3 (median) | >65 yrs | 1 | 0.083 | 0.000 | 728.648 |
| Deaths/1 M/week 3 (mean) | >65 yrs | 1 | 0.089 | 0.000 | 763.002 |
| Deaths/1 M/week 3 (max) | >65 yrs | 1 | 0.099 | 0.000 | 983.317 |
| Deaths/1 M/month 1 (Total) | >65 yrs | 1 | 0.072 | 0.003 | 1370.980 |
| Deaths/1 M/month 1 (median) | >65 yrs | 1 | 0.054 | 0.010 | 449.527 |
| Deaths/1 M/month 1 (mean) | >65 yrs | 1 | 0.072 | 0.003 | 534.213 |
| Deaths/1 M/month 1 (max) | >65 yrs | 1 | 0.068 | 0.003 | 875.041 |
| Deaths/1 M log (Total) | >65 yrs | 1 | 0.520 | 0.000 | 731.014 |
| Deaths/day/1 M log (mean) | >65 yrs | 1 | 0.496 | 0.000 | 714.728 |
| Deaths/day/1 M log (median) | >65 yrs | 1 | 0.233 | 0.000 | 434.998 |
| Deaths/day/1 M log (max) | >65 yrs | 1 | 0.435 | 0.000 | 693.506 |
| Deaths/1 M/week 3 log (Total) | >65 yrs | 1 | 0.360 | 0.000 | 598.941 |
| Deaths/1 M/week 3 log (median) | >65 yrs | 1 | 0.337 | 0.000 | 403.255 |
| Deaths/1 M/week 3 log (mean) | >65 yrs | 1 | 0.362 | 0.000 | 597.436 |
| Deaths/1 M/week 3 log (max) | >65 yrs | 1 | 0.340 | 0.000 | 564.431 |
| Deaths/1 M/month 1 log (Total) | >65 yrs | 1 | 0.319 | 0.000 | 485.541 |
| Deaths/1 M/month 1 log (median) | >65 yrs | 1 | 0.290 | 0.000 | 329.855 |
| Deaths/1 M/month 1 log (mean) | >65 yrs | 1 | 0.320 | 0.000 | 485.194 |
| Deaths/1 M/month 1 log (max) | >65 yrs | 1 | 0.309 | 0.000 | 457.203 |
| **Coarse analysis (United States as a Country)** | | | | | |
| Deaths/1 M (Total) | Pop Dens | 1 | 0.001 | 0.655 | 2187.555 |
| Days to 0.1 Death/1 M | Pop Dens | 1 | 0.003 | 0.532 | 964.352 |
| Days to 1 Death/1 M | Pop Dens | 1 | 0.012 | 0.263 | 828.453 |
| Deaths/day/1 M (mean) | Pop Dens | 1 | 0.005 | 0.404 | 727.131 |
| Deaths/day/1 M (median) | Pop Dens | 1 | 0.001 | 0.725 | 605.678 |
| Deaths/day/1 M (max) | Pop Dens | 1 | 0.051 | 0.006 | 1247.601 |
| Deaths/1 M/week 3 (Total) | Pop Dens | 1 | 0.013 | 0.208 | 1265.946 |
| Deaths/1 M/week 3 (median) | Pop Dens | 1 | 0.001 | 0.667 | 450.147 |

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|---|---|---|---|---|---|
| Deaths/1 M/week 3 (mean) | Pop Dens | 1 | 0.013 | 0.208 | 775.576 |
| Deaths/1 M/week 3 (max) | Pop Dens | 1 | 0.064 | 0.004 | 1064.879 |
| Deaths/1 M/month 1 (Total) | Pop Dens | 1 | 0.000 | 0.934 | 1065.788 |
| Deaths/1 M/month 1 (median) | Pop Dens | 1 | 0.001 | 0.767 | 326.697 |
| Deaths/1 M/month 1 (mean) | Pop Dens | 1 | 0.000 | 0.934 | 467.178 |
| Deaths/1 M/month 1 (max) | Pop Dens | 1 | 0.000 | 0.839 | 781.640 |
| Deaths/1 M log (Total) | Pop Dens | 1 | 0.010 | 0.237 | 656.683 |
| Deaths/day/1 M log (mean) | Pop Dens | 1 | 0.013 | 0.174 | 632.416 |
| Deaths/day/1 M log (median) | Pop Dens | 1 | 0.024 | 0.184 | 304.504 |
| Deaths/day/1 M log (max) | Pop Dens | 1 | 0.028 | 0.043 | 602.092 |
| Deaths/1 M/week 3 log (Total) | Pop Dens | 1 | 0.022 | 0.121 | 463.359 |
| Deaths/1 M/week 3 log (median) | Pop Dens | 1 | 0.018 | 0.256 | 287.331 |
| Deaths/1 M/week 3 log (mean) | Pop Dens | 1 | 0.022 | 0.121 | 463.359 |
| Deaths/1 M/week 3 log (max) | Pop Dens | 1 | 0.047 | 0.023 | 441.974 |
| Deaths/1 M/month 1 log (Total) | Pop Dens | 1 | 0.004 | 0.536 | 380.280 |
| Deaths/1 M/month 1 log (median) | Pop Dens | 1 | 0.019 | 0.284 | 242.927 |
| Deaths/1 M/month 1 log (mean) | Pop Dens | 1 | 0.004 | 0.536 | 380.280 |
| Deaths/1 M/month 1 log (max) | Pop Dens | 1 | 0.004 | 0.543 | 359.710 |
| Deaths/1 M (Total) | Urban (%) | 1 | 0.085 | 0.000 | 2217.583 |
| Days to 0.1 Death/1 M | Urban (%) | 1 | 0.066 | 0.002 | 995.903 |
| Days to 1 Death/1 M | Urban (%) | 1 | 0.000 | 0.967 | 829.731 |
| Deaths/day/1 M (mean) | Urban (%) | 1 | 0.082 | 0.000 | 722.986 |
| Deaths/day/1 M (median) | Urban (%) | 1 | 0.063 | 0.002 | 602.310 |
| Deaths/day/1 M (max) | Urban (%) | 1 | 0.056 | 0.004 | 1261.790 |
| Deaths/1 M/week 3 (Total) | Urban (%) | 1 | 0.054 | 0.008 | 1278.581 |
| Deaths/1 M/week 3 (median) | Urban (%) | 1 | 0.052 | 0.010 | 448.802 |
| Deaths/1 M/week 3 (mean) | Urban (%) | 1 | 0.054 | 0.008 | 780.428 |
| Deaths/1 M/week 3 (max) | Urban (%) | 1 | 0.052 | 0.010 | 1081.336 |
| Deaths/1 M/month 1 (Total) | Urban (%) | 1 | 0.094 | 0.003 | 1079.227 |
| Deaths/1 M/month 1 (median) | Urban (%) | 1 | 0.053 | 0.029 | 327.356 |
| Deaths/1 M/month 1 (mean) | Urban (%) | 1 | 0.094 | 0.003 | 467.011 |
| Deaths/1 M/month 1 (max) | Urban (%) | 1 | 0.073 | 0.010 | 790.637 |
| Deaths/1 M log (Total) | Urban (%) | 1 | 0.227 | 0.000 | 629.224 |
| Deaths/day/1 M log (mean) | Urban (%) | 1 | 0.201 | 0.000 | 611.427 |
| Deaths/day/1 M log (median) | Urban (%) | 1 | 0.167 | 0.000 | 292.774 |
| Deaths/day/1 M log (max) | Urban (%) | 1 | 0.184 | 0.000 | 584.360 |
| Deaths/1 M/week 3 log (Total) | Urban (%) | 1 | 0.255 | 0.000 | 446.726 |
| Deaths/1 M/week 3 log (median) | Urban (%) | 1 | 0.223 | 0.000 | 270.480 |
| Deaths/1 M/week 3 log (mean) | Urban (%) | 1 | 0.255 | 0.000 | 446.726 |
| Deaths/1 M/week 3 log (max) | Urban (%) | 1 | 0.242 | 0.000 | 427.325 |
| Deaths/1 M/month 1 log (Total) | Urban (%) | 1 | 0.234 | 0.000 | 373.296 |
| Deaths/1 M/month 1 log (median) | Urban (%) | 1 | 0.230 | 0.000 | 228.183 |
| Deaths/1 M/month 1 log (mean) | Urban (%) | 1 | 0.234 | 0.000 | 373.296 |

| | | | | | |
|---|---|---|---|---|---|
| Deaths/1 M/month 1 log (max) | Urban (%) | 1 | 0.234 | 0.000 | 349.578 |
| Deaths/1 M (Total) | HDI | 1 | 0.141 | 0.000 | 1910.680 |
| Days to 0.1 Death/1 M | HDI | 1 | 0.059 | 0.005 | 907.382 |
| Days to 1 Death/1 M | HDI | 1 | 0.015 | 0.225 | 763.142 |
| Deaths/day/1 M (mean) | HDI | 1 | 0.135 | 0.000 | 572.907 |
| Deaths/day/1 M (median) | HDI | 1 | 0.106 | 0.000 | 549.459 |
| Deaths/day/1 M (max) | HDI | 1 | 0.154 | 0.000 | 912.650 |
| Deaths/1 M/week 3 (Total) | HDI | 1 | 0.086 | 0.001 | 916.494 |
| Deaths/1 M/week 3 (median) | HDI | 1 | 0.095 | 0.001 | 412.015 |
| Deaths/1 M/week 3 (mean) | HDI | 1 | 0.086 | 0.001 | 465.043 |
| Deaths/1 M/week 3 (max) | HDI | 1 | 0.071 | 0.004 | 657.109 |
| Deaths/1 M/month 1 (Total) | HDI | 1 | 0.089 | 0.006 | 910.863 |
| Deaths/1 M/month 1 (median) | HDI | 1 | 0.053 | 0.038 | 306.016 |
| Deaths/1 M/month 1 (mean) | HDI | 1 | 0.089 | 0.006 | 353.066 |
| Deaths/1 M/month 1 (max) | HDI | 1 | 0.105 | 0.003 | 560.261 |
| Deaths/1 M log (Total) | HDI | 1 | 0.566 | 0.000 | 481.687 |
| Deaths/day/1 M log (mean) | HDI | 1 | 0.530 | 0.000 | 473.094 |
| Deaths/day/1 M log (median) | HDI | 1 | 0.379 | 0.000 | 249.801 |
| Deaths/day/1 M log (max) | HDI | 1 | 0.462 | 0.000 | 460.321 |
| Deaths/1 M/week 3 log (Total) | HDI | 1 | 0.430 | 0.000 | 361.348 |
| Deaths/1 M/week 3 log (median) | HDI | 1 | 0.438 | 0.000 | 221.609 |
| Deaths/1 M/week 3 log (mean) | HDI | 1 | 0.430 | 0.000 | 361.348 |
| Deaths/1 M/week 3 log (max) | HDI | 1 | 0.386 | 0.000 | 345.403 |
| Deaths/1 M/month 1 log (Total) | HDI | 1 | 0.469 | 0.000 | 308.905 |
| Deaths/1 M/month 1 log (median) | HDI | 1 | 0.457 | 0.000 | 190.375 |
| Deaths/1 M/month 1 log (mean) | HDI | 1 | 0.469 | 0.000 | 308.905 |
| Deaths/1 M/month 1 log (max) | HDI | 1 | 0.448 | 0.000 | 287.503 |
| Deaths/1 M (Total) | >65 yrs | 1 | 0.214 | 0.000 | 1956.813 |
| Days to 0.1 Death/1 M | >65 yrs | 1 | 0.016 | 0.135 | 978.532 |
| Days to 1 Death/1 M | >65 yrs | 1 | 0.006 | 0.443 | 797.325 |
| Deaths/day/1 M (mean) | >65 yrs | 1 | 0.217 | 0.000 | 530.521 |
| Deaths/day/1 M (median) | >65 yrs | 1 | 0.177 | 0.000 | 517.042 |
| Deaths/day/1 M (max) | >65 yrs | 1 | 0.203 | 0.000 | 898.579 |
| Deaths/1 M/week 3 (Total) | >65 yrs | 1 | 0.213 | 0.000 | 822.430 |
| Deaths/1 M/week 3 (median) | >65 yrs | 1 | 0.238 | 0.000 | 290.847 |
| Deaths/1 M/week 3 (mean) | >65 yrs | 1 | 0.213 | 0.000 | 335.952 |
| Deaths/1 M/week 3 (max) | >65 yrs | 1 | 0.172 | 0.000 | 530.350 |
| Deaths/1 M/month 1 (Total) | >65 yrs | 1 | 0.172 | 0.000 | 872.824 |
| Deaths/1 M/month 1 (median) | >65 yrs | 1 | 0.178 | 0.000 | 167.847 |
| Deaths/1 M/month 1 (mean) | >65 yrs | 1 | 0.172 | 0.000 | 274.213 |
| Deaths/1 M/month 1 (max) | >65 yrs | 1 | 0.142 | 0.000 | 527.099 |
| Deaths/1 M log (Total) | >65 yrs | 1 | 0.513 | 0.000 | 534.520 |
| Deaths/day/1 M log (mean) | >65 yrs | 1 | 0.478 | 0.000 | 520.365 |

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|---|---|---|---|---|---|
| Deaths/day/1 M log (median) | >65 yrs | 1 | 0.279 | 0.000 | 274.859 |
| Deaths/day/1 M log (max) | >65 yrs | 1 | 0.412 | 0.000 | 499.242 |
| Deaths/1 M/week 3 log (Total) | >65 yrs | 1 | 0.351 | 0.000 | 403.386 |
| Deaths/1 M/week 3 log (median) | >65 yrs | 1 | 0.386 | 0.000 | 245.664 |
| Deaths/1 M/week 3 log (mean) | >65 yrs | 1 | 0.351 | 0.000 | 403.386 |
| Deaths/1 M/week 3 log (max) | >65 yrs | 1 | 0.310 | 0.000 | 381.382 |
| Deaths/1 M/month 1 log (Total) | >65 yrs | 1 | 0.332 | 0.000 | 344.149 |
| Deaths/1 M/month 1 log (median) | >65 yrs | 1 | 0.371 | 0.000 | 206.958 |
| Deaths/1 M/month 1 log (mean) | >65 yrs | 1 | 0.332 | 0.000 | 344.149 |
| Deaths/1 M/month 1 log (max) | >65 yrs | 1 | 0.321 | 0.000 | 318.651 |
| **Refined analysis (Controlling Confounding Variables)** | | | | | |
| Deaths/1 M (Total) | Pop Dens | 1 | 0.223 | 0.023 | 289.977 |
| Days to 0.1 Death/1 M | Pop Dens | 1 | 0.008 | 0.689 | 144.635 |
| Days to 1 Death/1 M | Pop Dens | 1 | 0.004 | 0.764 | 167.649 |
| Deaths/day/1 M (mean) | Pop Dens | 1 | 0.217 | 0.025 | 105.680 |
| Deaths/day/1 M (median) | Pop Dens | 1 | 0.195 | 0.035 | 107.871 |
| Deaths/day/1 M (max) | Pop Dens | 1 | 0.088 | 0.169 | 157.385 |
| Deaths/1 M/week 3 (Total) | Pop Dens | 1 | 0.035 | 0.403 | 165.624 |
| Deaths/1 M/week 3 (median) | Pop Dens | 1 | 0.053 | 0.305 | 73.388 |
| Deaths/1 M/week 3 (mean) | Pop Dens | 1 | 0.035 | 0.403 | 80.004 |
| Deaths/1 M/week 3 (max) | Pop Dens | 1 | 0.021 | 0.523 | 107.093 |
| Deaths/1 M/month 1 (Total) | Pop Dens | 1 | 0.068 | 0.268 | 214.614 |
| Deaths/1 M/month 1 (median) | Pop Dens | 1 | 0.055 | 0.318 | 52.227 |
| Deaths/1 M/month 1 (mean) | Pop Dens | 1 | 0.068 | 0.268 | 78.566 |
| Deaths/1 M/month 1 (max) | Pop Dens | 1 | 0.135 | 0.111 | 125.948 |
| Deaths/1 M log (Total) | Pop Dens | 1 | 0.268 | 0.011 | 85.768 |
| Deaths/day/1 M log (mean) | Pop Dens | 1 | 0.240 | 0.018 | 82.137 |
| Deaths/day/1 M log (median) | Pop Dens | 1 | 0.269 | 0.016 | 73.783 |
| Deaths/day/1 M log (max) | Pop Dens | 1 | 0.117 | 0.110 | 82.663 |
| Deaths/1 M/week 3 log (Total) | Pop Dens | 1 | 0.083 | 0.194 | 86.441 |
| Deaths/1 M/week 3 log (median) | Pop Dens | 1 | 0.030 | 0.477 | 76.215 |
| Deaths/1 M/week 3 log (mean) | Pop Dens | 1 | 0.083 | 0.194 | 86.441 |
| Deaths/1 M/week 3 log (max) | Pop Dens | 1 | 0.049 | 0.320 | 81.729 |
| Deaths/1 M/month 1 log (Total) | Pop Dens | 1 | 0.158 | 0.083 | 75.431 |
| Deaths/1 M/month 1 log (median) | Pop Dens | 1 | 0.097 | 0.224 | 64.370 |
| Deaths/1 M/month 1 log (mean) | Pop Dens | 1 | 0.158 | 0.083 | 75.431 |
| Deaths/1 M/month 1 log (max) | Pop Dens | 1 | 0.192 | 0.053 | 68.063 |
| Deaths/1 M (Total) | Urban (%) | 1 | 0.021 | 0.509 | 295.303 |
| Days to 0.1 Death/1 M | Urban (%) | 1 | 0.019 | 0.534 | 144.380 |
| Days to 1 Death/1 M | Urban (%) | 1 | 0.021 | 0.511 | 167.266 |
| Deaths/day/1 M (mean) | Urban (%) | 1 | 0.029 | 0.436 | 110.639 |
| Deaths/day/1 M (median) | Urban (%) | 1 | 0.001 | 0.918 | 112.844 |
| Deaths/day/1 M (max) | Urban (%) | 1 | 0.108 | 0.126 | 156.878 |

| | | | | | |
|---|---|---|---|---|---|
| Deaths/1 M/week 3 (Total) | Urban (%) | 1 | 0.004 | 0.782 | 166.327 |
| Deaths/1 M/week 3 (median) | Urban (%) | 1 | 0.011 | 0.646 | 74.338 |
| Deaths/1 M/week 3 (mean) | Urban (%) | 1 | 0.004 | 0.782 | 80.707 |
| Deaths/1 M/week 3 (max) | Urban (%) | 1 | 0.001 | 0.879 | 107.527 |
| Deaths/1 M/month 1 (Total) | Urban (%) | 1 | 0.013 | 0.635 | 215.758 |
| Deaths/1 M/month 1 (median) | Urban (%) | 1 | 0.002 | 0.867 | 53.334 |
| Deaths/1 M/month 1 (mean) | Urban (%) | 1 | 0.013 | 0.635 | 79.710 |
| Deaths/1 M/month 1 (max) | Urban (%) | 1 | 0.019 | 0.564 | 128.476 |
| Deaths/1 M log (Total) | Urban (%) | 1 | 0.029 | 0.435 | 92.259 |
| Deaths/day/1 M log (mean) | Urban (%) | 1 | 0.022 | 0.499 | 87.924 |
| Deaths/day/1 M log (median) | Urban (%) | 1 | 0.012 | 0.637 | 80.122 |
| Deaths/day/1 M log (max) | Urban (%) | 1 | 0.059 | 0.262 | 84.126 |
| Deaths/1 M/week 3 log (Total) | Urban (%) | 1 | 0.000 | 0.965 | 88.345 |
| Deaths/1 M/week 3 log (median) | Urban (%) | 1 | 0.038 | 0.423 | 76.059 |
| Deaths/1 M/week 3 log (mean) | Urban (%) | 1 | 0.000 | 0.965 | 88.345 |
| Deaths/1 M/week 3 log (max) | Urban (%) | 1 | 0.000 | 0.974 | 82.844 |
| Deaths/1 M/month 1 log (Total) | Urban (%) | 1 | 0.006 | 0.736 | 78.732 |
| Deaths/1 M/month 1 log (median) | Urban (%) | 1 | 0.055 | 0.364 | 65.137 |
| Deaths/1 M/month 1 log (mean) | Urban (%) | 1 | 0.006 | 0.736 | 78.732 |
| Deaths/1 M/month 1 log (max) | Urban (%) | 1 | 0.014 | 0.621 | 72.057 |
| Deaths/1 M (Total) | HDI | 1 | 0.036 | 0.389 | 294.962 |
| Days to 0.1 Death/1 M | HDI | 1 | 0.012 | 0.614 | 144.529 |
| Days to 1 Death/1 M | HDI | 1 | 0.021 | 0.510 | 167.264 |
| Deaths/day/1 M (mean) | HDI | 1 | 0.052 | 0.295 | 110.092 |
| Deaths/day/1 M (median) | HDI | 1 | 0.020 | 0.521 | 112.393 |
| Deaths/day/1 M (max) | HDI | 1 | 0.110 | 0.122 | 156.822 |
| Deaths/1 M/week 3 (Total) | HDI | 1 | 0.026 | 0.473 | 165.834 |
| Deaths/1 M/week 3 (median) | HDI | 1 | 0.059 | 0.275 | 73.229 |
| Deaths/1 M/week 3 (mean) | HDI | 1 | 0.026 | 0.473 | 80.214 |
| Deaths/1 M/week 3 (max) | HDI | 1 | 0.016 | 0.570 | 107.189 |
| Deaths/1 M/month 1 (Total) | HDI | 1 | 0.036 | 0.425 | 215.290 |
| Deaths/1 M/month 1 (median) | HDI | 1 | 0.030 | 0.464 | 52.754 |
| Deaths/1 M/month 1 (mean) | HDI | 1 | 0.036 | 0.425 | 79.242 |
| Deaths/1 M/month 1 (max) | HDI | 1 | 0.056 | 0.317 | 127.711 |
| Deaths/1 M log (Total) | HDI | 1 | 0.149 | 0.069 | 89.229 |
| Deaths/day/1 M log (mean) | HDI | 1 | 0.154 | 0.064 | 84.592 |
| Deaths/day/1 M log (median) | HDI | 1 | 0.149 | 0.084 | 76.979 |
| Deaths/day/1 M log (max) | HDI | 1 | 0.223 | 0.023 | 79.745 |
| Deaths/1 M/week 3 log (Total) | HDI | 1 | 0.078 | 0.209 | 86.566 |
| Deaths/1 M/week 3 log (median) | HDI | 1 | 0.139 | 0.116 | 73.959 |
| Deaths/1 M/week 3 log (mean) | HDI | 1 | 0.078 | 0.209 | 86.566 |
| Deaths/1 M/week 3 log (max) | HDI | 1 | 0.079 | 0.206 | 81.038 |
| Deaths/1 M/month 1 log (Total) | HDI | 1 | 0.129 | 0.120 | 76.100 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Deaths/1 M/month 1 log (median) | HDI | | | 1 | 0.185 | 0.085 | 62.630 |
| Deaths/1 M/month 1 log (mean) | HDI | | | 1 | 0.129 | 0.120 | 76.100 |
| Deaths/1 M/month 1 log (max) | HDI | | | 1 | 0.168 | 0.072 | 68.651 |
| Deaths/1 M (Total) | >65 yrs | | | 1 | 0.042 | 0.348 | 294.807 |
| Days to 0.1 Death/1 M | >65 yrs | | | 1 | 0.099 | 0.143 | 142.409 |
| Days to 1 Death/1 M | >65 yrs | | | 1 | 0.275 | 0.010 | 160.369 |
| Deaths/day/1 M (mean) | >65 yrs | | | 1 | 0.039 | 0.366 | 110.404 |
| Deaths/day/1 M (median) | >65 yrs | | | 1 | 0.075 | 0.207 | 111.068 |
| Deaths/day/1 M (max) | >65 yrs | | | 1 | 0.021 | 0.508 | 159.012 |
| Deaths/1 M/week 3 (Total) | >65 yrs | | | 1 | 0.065 | 0.251 | 164.930 |
| Deaths/1 M/week 3 (median) | >65 yrs | | | 1 | 0.096 | 0.162 | 72.366 |
| Deaths/1 M/week 3 (mean) | >65 yrs | | | 1 | 0.065 | 0.251 | 79.310 |
| Deaths/1 M/week 3 (max) | >65 yrs | | | 1 | 0.054 | 0.296 | 106.322 |
| Deaths/1 M/month 1 (Total) | >65 yrs | | | 1 | 0.040 | 0.396 | 215.192 |
| Deaths/1 M/month 1 (median) | >65 yrs | | | 1 | 0.051 | 0.341 | 52.329 |
| Deaths/1 M/month 1 (mean) | >65 yrs | | | 1 | 0.040 | 0.396 | 79.144 |
| Deaths/1 M/month 1 (max) | >65 yrs | | | 1 | 0.037 | 0.417 | 128.103 |
| Deaths/1 M log (Total) | >65 yrs | | | 1 | 0.090 | 0.166 | 90.785 |
| Deaths/day/1 M log (mean) | >65 yrs | | | 1 | 0.111 | 0.121 | 85.738 |
| Deaths/day/1 M log (median) | >65 yrs | | | 1 | 0.135 | 0.102 | 77.337 |
| Deaths/day/1 M log (max) | >65 yrs | | | 1 | 0.094 | 0.154 | 83.259 |
| Deaths/1 M/week 3 log (Total) | >65 yrs | | | 1 | 0.211 | 0.031 | 83.127 |
| Deaths/1 M/week 3 log (median) | >65 yrs | | | 1 | 0.195 | 0.058 | 72.673 |
| Deaths/1 M/week 3 log (mean) | >65 yrs | | | 1 | 0.211 | 0.031 | 83.127 |
| Deaths/1 M/week 3 log (max) | >65 yrs | | | 1 | 0.200 | 0.037 | 77.942 |
| Deaths/1 M/month 1 log (Total) | >65 yrs | | | 1 | 0.159 | 0.082 | 75.405 |
| Deaths/1 M/month 1 log (median) | >65 yrs | | | 1 | 0.283 | 0.028 | 60.459 |
| Deaths/1 M/month 1 log (mean) | >65 yrs | | | 1 | 0.159 | 0.082 | 75.405 |
| Deaths/1 M/month 1 log (max) | >65 yrs | | | 1 | 0.106 | 0.161 | 70.092 |

**Supplementary Table S2. ANOVA analyses of effect of BCG vaccination policy on COVID-19 mortality.** Analyses included the United States as a single country (**Coarse analysis (United States as a Country)**) and by state (**Coarse analysis (United States as states)**), because some of its states are larger than many European, Asian, and Latin American countries. Analyses were conducted globally for all the countries for which data were available and also for a subset of countries after controlling for confounding variables (**Refined analysis (Controlling Confounding Variables)**). Mortality values are based on original numbers by country and corrected by the country's population and to the same time of the epidemic to allow standardized evaluations. Significant analysis (p<0.05) are denoted in red. **DF**: degrees of freedom, **R²**: correlation coefficient, **AIC**: Akaike's information criteria. BCG Policy included current, interrupted and without ever (never) having a BCG national vaccination policy.

| Dependent Variable | Independent Variable | F-statistic | DF | DF Residual | R² | P-Value | AIC |
|---|---|---|---|---|---|---|---|
| **Coarse analysis (United States as states)** | | | | | | | |
| Deaths/1 M (Total) | BCG Policy | 22.652 | 2 | 226 | 0.167 | 0.000 | 2851.683 |
| Days to 0.1 Death/1 M | BCG Policy | 9.237 | 2 | 192 | 0.088 | 0.000 | 1322.556 |
| Days to 1 Death/1 M | BCG Policy | 12.062 | 2 | 155 | 0.135 | 0.000 | 1157.465 |
| Deaths/day/1 M (mean) | BCG Policy | 21.469 | 2 | 196 | 0.180 | 0.000 | 1007.019 |
| Deaths/day/1 M (median) | BCG Policy | 20.426 | 2 | 196 | 0.172 | 0.000 | 869.126 |
| Deaths/day/1 M (max) | BCG Policy | 11.928 | 2 | 196 | 0.109 | 0.000 | 1725.294 |
| Deaths/1 M/week 3 (Total) | BCG Policy | 7.968 | 2 | 175 | 0.083 | 0.000 | 1744.938 |
| Deaths/1 M/week 3 (median) | BCG Policy | 17.817 | 2 | 175 | 0.169 | 0.000 | 756.657 |
| Deaths/1 M/week 3 (mean) | BCG Policy | 7.973 | 2 | 175 | 0.084 | 0.000 | 1052.179 |
| Deaths/1 M/week 3 (max) | BCG Policy | 4.158 | 2 | 175 | 0.045 | 0.017 | 1456.096 |
| Deaths/1 M/month 1 (Total) | BCG Policy | 10.964 | 2 | 122 | 0.152 | 0.000 | 1492.531 |
| Deaths/1 M/month 1 (median) | BCG Policy | 10.345 | 2 | 122 | 0.145 | 0.000 | 497.684 |
| Deaths/1 M/month 1 (mean) | BCG Policy | 11.000 | 2 | 122 | 0.153 | 0.000 | 642.132 |
| Deaths/1 M/month 1 (max) | BCG Policy | 7.456 | 2 | 122 | 0.109 | 0.001 | 1071.674 |
| Deaths/1 M log (Total) | BCG Policy | 89.762 | 2 | 196 | 0.478 | 0.000 | 762.574 |
| Deaths/day/1 M log (mean) | BCG Policy | 93.492 | 2 | 196 | 0.488 | 0.000 | 737.834 |
| Deaths/day/1 M log (median) | BCG Policy | 44.116 | 2 | 115 | 0.434 | 0.000 | 403.854 |
| Deaths/day/1 M log (max) | BCG Policy | 86.155 | 2 | 196 | 0.468 | 0.000 | 703.512 |
| Deaths/1 M/week 3 log (Total) | BCG Policy | 56.390 | 2 | 156 | 0.420 | 0.000 | 601.238 |
| Deaths/1 M/week 3 log (median) | BCG Policy | 41.757 | 2 | 113 | 0.425 | 0.000 | 395.097 |
| Deaths/1 M/week 3 log (mean) | BCG Policy | 58.068 | 2 | 156 | 0.427 | 0.000 | 598.349 |
| Deaths/1 M/week 3 log (max) | BCG Policy | 57.291 | 2 | 156 | 0.423 | 0.000 | 566.974 |
| Deaths/1 M/month 1 log (Total) | BCG Policy | 48.282 | 2 | 122 | 0.442 | 0.000 | 482.989 |
| Deaths/1 M/month 1 log (median) | BCG Policy | 36.943 | 2 | 91 | 0.448 | 0.000 | 315.617 |
| Deaths/1 M/month 1 log (mean) | BCG Policy | 49.584 | 2 | 122 | 0.448 | 0.000 | 481.252 |
| Deaths/1 M/month 1 log (max) | BCG Policy | 57.158 | 2 | 122 | 0.484 | 0.000 | 441.411 |
| **Coarse analysis (United States as a Country)** | | | | | | | |
| Deaths/1 M (Total) | BCG Policy | 70.017 | 2 | 171 | 0.450 | 0.000 | 2062.967 |
| Days to 0.1 Death/1 M | BCG Policy | 0.996 | 2 | 138 | 0.014 | 0.372 | 1003.696 |
| Days to 1 Death/1 M | BCG Policy | 0.731 | 2 | 101 | 0.014 | 0.484 | 798.832 |
| Deaths/day/1 M (mean) | BCG Policy | 48.473 | 2 | 142 | 0.406 | 0.000 | 642.772 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Deaths/day/1 M (median) | BCG Policy | 34.440 | 2 | 142 | 0.327 | 0.000 | 540.982 |
| Deaths/day/1 M (max) | BCG Policy | 26.807 | 2 | 142 | 0.274 | 0.000 | 1186.493 |
| Deaths/1 M/week 3 (Total) | BCG Policy | 16.246 | 2 | 123 | 0.209 | 0.000 | 1240.111 |
| Deaths/1 M/week 3 (median) | BCG Policy | 18.259 | 2 | 123 | 0.229 | 0.000 | 419.580 |
| Deaths/1 M/week 3 (mean) | BCG Policy | 16.246 | 2 | 123 | 0.209 | 0.000 | 749.742 |
| Deaths/1 M/week 3 (max) | BCG Policy | 13.032 | 2 | 123 | 0.175 | 0.000 | 1051.030 |
| Deaths/1 M/month 1 (Total) | BCG Policy | 15.362 | 2 | 86 | 0.263 | 0.000 | 1051.928 |
| Deaths/1 M/month 1 (median) | BCG Policy | 8.482 | 2 | 86 | 0.165 | 0.000 | 315.511 |
| Deaths/1 M/month 1 (mean) | BCG Policy | 15.362 | 2 | 86 | 0.263 | 0.000 | 446.515 |
| Deaths/1 M/month 1 (max) | BCG Policy | 13.808 | 2 | 86 | 0.243 | 0.000 | 766.657 |
| Deaths/1 M log (Total) | BCG Policy | 42.163 | 2 | 142 | 0.373 | 0.000 | 580.523 |
| Deaths/day/1 M log (mean) | BCG Policy | 38.175 | 2 | 142 | 0.350 | 0.000 | 565.486 |
| Deaths/day/1 M log (median) | BCG Policy | 25.786 | 2 | 70 | 0.424 | 0.000 | 264.525 |
| Deaths/day/1 M log (max) | BCG Policy | 34.349 | 2 | 142 | 0.326 | 0.000 | 534.755 |
| Deaths/1 M/week 3 log (Total) | BCG Policy | 19.941 | 2 | 106 | 0.273 | 0.000 | 435.423 |
| Deaths/1 M/week 3 log (median) | BCG Policy | 13.673 | 2 | 69 | 0.284 | 0.000 | 266.631 |
| Deaths/1 M/week 3 log (mean) | BCG Policy | 19.941 | 2 | 106 | 0.273 | 0.000 | 435.423 |
| Deaths/1 M/week 3 log (max) | BCG Policy | 18.334 | 2 | 106 | 0.257 | 0.000 | 415.150 |
| Deaths/1 M/month 1 log (Total) | BCG Policy | 21.196 | 2 | 86 | 0.330 | 0.000 | 363.809 |
| Deaths/1 M/month 1 log (median) | BCG Policy | 17.080 | 2 | 58 | 0.371 | 0.000 | 217.874 |
| Deaths/1 M/month 1 log (mean) | BCG Policy | 21.196 | 2 | 86 | 0.330 | 0.000 | 363.809 |
| Deaths/1 M/month 1 log (max) | BCG Policy | 23.228 | 2 | 86 | 0.351 | 0.000 | 333.817 |
| **Refined analysis (Controlling Confounding Variables)** | | | | | | | |
| Deaths/1 M (Total) | BCG Policy | 4.921 | 2 | 20 | 0.330 | 0.018 | 288.589 |
| Days to 0.1 Death/1 M | BCG Policy | 0.703 | 2 | 20 | 0.066 | 0.507 | 145.251 |
| Days to 1 Death/1 M | BCG Policy | 0.239 | 2 | 20 | 0.023 | 0.790 | 169.207 |
| Deaths/day/1 M (mean) | BCG Policy | 4.495 | 2 | 20 | 0.310 | 0.024 | 104.781 |
| Deaths/day/1 M (median) | BCG Policy | 3.037 | 2 | 20 | 0.233 | 0.070 | 108.756 |
| Deaths/day/1 M (max) | BCG Policy | 5.877 | 2 | 20 | 0.370 | 0.010 | 150.870 |
| Deaths/1 M/week 3 (Total) | BCG Policy | 1.411 | 2 | 19 | 0.129 | 0.268 | 165.367 |
| Deaths/1 M/week 3 (median) | BCG Policy | 1.997 | 2 | 19 | 0.174 | 0.163 | 72.379 |
| Deaths/1 M/week 3 (mean) | BCG Policy | 1.411 | 2 | 19 | 0.129 | 0.268 | 79.746 |
| Deaths/1 M/week 3 (max) | BCG Policy | 0.896 | 2 | 19 | 0.086 | 0.425 | 107.570 |
| Deaths/1 M/month 1 (Total) | BCG Policy | 1.718 | 2 | 17 | 0.168 | 0.209 | 214.335 |
| Deaths/1 M/month 1 (median) | BCG Policy | 2.270 | 2 | 17 | 0.211 | 0.134 | 50.631 |
| Deaths/1 M/month 1 (mean) | BCG Policy | 1.718 | 2 | 17 | 0.168 | 0.209 | 78.287 |
| Deaths/1 M/month 1 (max) | BCG Policy | 1.931 | 2 | 17 | 0.185 | 0.176 | 126.763 |
| Deaths/1 M log (Total) | BCG Policy | 6.317 | 2 | 20 | 0.387 | 0.007 | 83.680 |
| Deaths/day/1 M log (mean) | BCG Policy | 5.323 | 2 | 20 | 0.347 | 0.014 | 80.620 |
| Deaths/day/1 M log (median) | BCG Policy | 5.105 | 2 | 18 | 0.362 | 0.018 | 72.939 |
| Deaths/day/1 M log (max) | BCG Policy | 5.722 | 2 | 20 | 0.364 | 0.011 | 77.128 |
| Deaths/1 M/week 3 log (Total) | BCG Policy | 0.640 | 2 | 19 | 0.063 | 0.538 | 88.913 |
| Deaths/1 M/week 3 log (median) | BCG Policy | 1.398 | 2 | 16 | 0.149 | 0.276 | 75.737 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Deaths/1 M/week 3 log (mean) | BCG Policy | 0.640 | 2 | 19 | 0.063 | 0.538 | 88.913 |
| Deaths/1 M/week 3 log (max) | BCG Policy | 0.526 | 2 | 19 | 0.052 | 0.599 | 83.660 |
| Deaths/1 M/month 1 log (Total) | BCG Policy | 1.925 | 2 | 17 | 0.185 | 0.176 | 76.779 |
| Deaths/1 M/month 1 log (median) | BCG Policy | 5.243 | 2 | 14 | 0.428 | 0.020 | 58.600 |
| Deaths/1 M/month 1 log (mean) | BCG Policy | 1.925 | 2 | 17 | 0.185 | 0.176 | 76.779 |
| Deaths/1 M/month 1 log (max) | BCG Policy | 2.599 | 2 | 17 | 0.234 | 0.104 | 69.000 |

**Supplementary Table S3. T-test analyses of effect of BCG vaccination policy on COVID-19 mortality.** Analyses included the United States as a single country (**Coarse analysis (United States as a Country)**) and by state (**Coarse analysis (United States as states)**), because some of its states are larger than many European, Asian, and Latin American countries. Analyses were conducted globally for all the countries for which data were available and for a subset of countries after controlling for confounding variables (**Refined analysis (Controlling Confounding Variables)**). Mortality values are based on original numbers by country and corrected by the country's population and by the time of the epidemic to allow standardized evaluations. Significant analysis (p<0.05) are denoted in red. **DF**: degrees of freedom, **R²**: correlation coefficient, **AIC**: Akaike's information criteria. BCG Policy included current, interrupted and without ever (never) having a BCG national vaccination policy.

| Dependent Variable | Independent Variable | t-statistic | DF | P-value |
|---|---|---|---|---|
| **Coarse analysis (United States as states)** | | | | |
| Deaths/1 M (Total) | BCG Current vs. Interrupted + Never | 6.939 | 236.000 | 0.000 |
| Days to 0.1 Death/1 M | BCG Current vs. Interrupted + Never | -3.976 | 198.000 | 1.000 |
| Days to 1 Death/1 M | BCG Current vs. Interrupted + Never | -4.042 | 160.000 | 1.000 |
| Deaths/day/1 M (mean) | BCG Current vs. Interrupted + Never | 6.662 | 203.000 | 0.000 |
| Deaths/day/1 M (median) | BCG Current vs. Interrupted + Never | 6.545 | 203.000 | 0.000 |
| Deaths/day/1 M (max) | BCG Current vs. Interrupted + Never | 4.671 | 203.000 | 0.000 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Interrupted + Never | 3.931 | 179.000 | 0.000 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Interrupted + Never | 6.084 | 179.000 | 0.000 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Interrupted + Never | 3.932 | 179.000 | 0.000 |
| Deaths/1 M/week 3 (max) | BCG Current vs. Interrupted + Never | 2.757 | 179.000 | 0.003 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Interrupted + Never | 4.674 | 125.000 | 0.000 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Interrupted + Never | 4.647 | 125.000 | 0.000 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Interrupted + Never | 4.681 | 125.000 | 0.000 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Interrupted + Never | 3.617 | 125.000 | 0.000 |
| Deaths/1 M log (Total) | BCG Current vs. Interrupted + Never | 13.195 | 203.000 | 0.000 |
| Deaths/day/1 M log (mean) | BCG Current vs. Interrupted + Never | 13.281 | 203.000 | 0.000 |
| Deaths/day/1 M log (median) | BCG Current vs. Interrupted + Never | 9.553 | 117.000 | 0.000 |
| Deaths/day/1 M log (max) | BCG Current vs. Interrupted + Never | 12.386 | 203.000 | 0.000 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Interrupted + Never | 10.274 | 160.000 | 0.000 |
| Deaths/1 M/week 3 log (median) | BCG Current vs. Interrupted + Never | 9.148 | 114.000 | 0.000 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Interrupted + Never | 10.415 | 160.000 | 0.000 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Interrupted + Never | 10.017 | 160.000 | 0.000 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Interrupted + Never | 9.554 | 125.000 | 0.000 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Interrupted + Never | 8.641 | 92.000 | 0.000 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Interrupted + Never | 9.674 | 125.000 | 0.000 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Interrupted + Never | 10.097 | 125.000 | 0.000 |
| Deaths/1 M (Total) | BCG Current vs. Never | 6.401 | 216.000 | 0.000 |
| Days to 0.1 Death/1 M | BCG Current vs. Never | -4.029 | 178.000 | 1.000 |
| Days to 1 Death/1 M | BCG Current vs. Never | -4.445 | 140.000 | 1.000 |

| | | | | |
|---|---|---|---|---|
| Deaths/day/1 M (mean) | BCG Current vs. Never | 6.425 | 183.000 | 0.000 |
| Deaths/day/1 M (median) | BCG Current vs. Never | 6.201 | 183.000 | 0.000 |
| Deaths/day/1 M (max) | BCG Current vs. Never | 4.662 | 183.000 | 0.000 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Never | 3.876 | 159.000 | 0.000 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Never | 6.063 | 159.000 | 0.000 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Never | 3.877 | 159.000 | 0.000 |
| Deaths/1 M/week 3 (max) | BCG Current vs. Never | 2.775 | 159.000 | 0.003 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Never | 4.700 | 107.000 | 0.000 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Never | 4.958 | 107.000 | 0.000 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Never | 4.710 | 107.000 | 0.000 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Never | 3.681 | 107.000 | 0.000 |
| Deaths/1 M log (Total) | BCG Current vs. Never | 11.923 | 183.000 | 0.000 |
| Deaths/day/1 M log (mean) | BCG Current vs. Never | 12.169 | 183.000 | 0.000 |
| Deaths/day/1 M log (median) | BCG Current vs. Never | 8.730 | 99.000 | 0.000 |
| Deaths/day/1 M log (max) | BCG Current vs. Never | 11.562 | 183.000 | 0.000 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Never | 10.025 | 140.000 | 0.000 |
| Deaths/1 M/week 3 log (median) | BCG Current vs. Never | 8.936 | 97.000 | 0.000 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Never | 10.197 | 140.000 | 0.000 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Never | 9.977 | 140.000 | 0.000 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Never | 8.828 | 107.000 | 0.000 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Never | 7.649 | 76.000 | 0.000 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Never | 8.972 | 107.000 | 0.000 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Never | 9.645 | 107.000 | 0.000 |
| **Coarse analysis (United States as a Country)** | | | | |
| Deaths/1 M (Total) | BCG Current vs. Interrupted + Never | 8.669 | 181 | 0.000 |
| Days to 0.1 Death/1 M | BCG Current vs. Interrupted + Never | -1.325 | 144 | 0.906 |
| Days to 1 Death/1 M | BCG Current vs. Interrupted + Never | -0.952 | 106 | 0.828 |
| Deaths/day/1 M (mean) | BCG Current vs. Interrupted + Never | 7.637 | 149 | 0.000 |
| Deaths/day/1 M (median) | BCG Current vs. Interrupted + Never | 7.991 | 149 | 0.000 |
| Deaths/day/1 M (max) | BCG Current vs. Interrupted + Never | 4.706 | 149 | 0.000 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Interrupted + Never | 3.708 | 127 | 0.000 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Interrupted + Never | 6.169 | 127 | 0.000 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Interrupted + Never | 3.708 | 127 | 0.000 |
| Deaths/1 M/week 3 (max) | BCG Current vs. Interrupted + Never | 2.886 | 127 | 0.002 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Interrupted + Never | 4.449 | 89 | 0.000 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Interrupted + Never | 4.142 | 89 | 0.000 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Interrupted + Never | 4.449 | 89 | 0.000 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Interrupted + Never | 3.308 | 89 | 0.001 |
| Deaths/1 M log (Total) | BCG Current vs. Interrupted + Never | 8.836 | 149 | 0.000 |
| Deaths/day/1 M log (mean) | BCG Current vs. Interrupted + Never | 8.338 | 149 | 0.000 |
| Deaths/day/1 M log (median) | BCG Current vs. Interrupted + Never | 7.060 | 72 | 0.000 |
| Deaths/day/1 M log (max) | BCG Current vs. Interrupted + Never | 7.600 | 149 | 0.000 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Interrupted + Never | 6.064 | 110 | 0.000 |

| | | | | |
|---|---|---|---|---|
| Deaths/1 M/week 3 log (median) | BCG Current vs. Interrupted + Never | 5.233 | 70 | 0.000 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Interrupted + Never | 6.064 | 110 | 0.000 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Interrupted + Never | 5.601 | 110 | 0.000 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Interrupted + Never | 6.290 | 89 | 0.000 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Interrupted + Never | 5.851 | 59 | 0.000 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Interrupted + Never | 6.290 | 89 | 0.000 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Interrupted + Never | 6.365 | 89 | 0.000 |
| Deaths/1 M (Total) | BCG Current vs. Never | 12.607 | 161 | 0.000 |
| Days to 0.1 Death/1 M | BCG Current vs. Never | -0.658 | 124 | 0.744 |
| Days to 1 Death/1 M | BCG Current vs. Never | -0.396 | 86 | 0.653 |
| Deaths/day/1 M (mean) | BCG Current vs. Never | 10.813 | 129 | 0.000 |
| Deaths/day/1 M (median) | BCG Current vs. Never | 9.790 | 129 | 0.000 |
| Deaths/day/1 M (max) | BCG Current vs. Never | 6.982 | 129 | 0.000 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Never | 5.479 | 107 | 0.000 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Never | 6.268 | 107 | 0.000 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Never | 5.479 | 107 | 0.000 |
| Deaths/1 M/week 3 (max) | BCG Current vs. Never | 4.856 | 107 | 0.000 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Never | 5.689 | 71 | 0.000 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Never | 4.816 | 71 | 0.000 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Never | 5.689 | 71 | 0.000 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Never | 4.926 | 71 | 0.000 |
| Deaths/1 M log (Total) | BCG Current vs. Never | 5.734 | 129 | 0.000 |
| Deaths/day/1 M log (mean) | BCG Current vs. Never | 5.266 | 129 | 0.000 |
| Deaths/day/1 M log (median) | BCG Current vs. Never | 4.662 | 54 | 0.000 |
| Deaths/day/1 M log (max) | BCG Current vs. Never | 5.093 | 129 | 0.000 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Never | 3.975 | 90 | 0.000 |
| Deaths/1 M/week 3 log (median) | BCG Current vs. Never | 2.416 | 53 | 0.010 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Never | 3.975 | 90 | 0.000 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Never | 3.896 | 90 | 0.000 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Never | 3.974 | 71 | 0.000 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Never | 2.393 | 43 | 0.011 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Never | 3.974 | 71 | 0.000 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Never | 4.362 | 71 | 0.000 |
| **Refined analysis (Controlling Confounding Variables)** | | | | |
| Deaths/1 M (Total) | BCG Current vs. Interrupted + Never | 2.586 | 21 | 0.009 |
| Days to 0.1 Death/1 M | BCG Current vs. Interrupted + Never | 0.911 | 21 | 0.186 |
| Days to 1 Death/1 M | BCG Current vs. Interrupted + Never | 0.266 | 21 | 0.396 |
| Deaths/day/1 M (mean) | BCG Current vs. Interrupted + Never | 2.718 | 21 | 0.006 |
| Deaths/day/1 M (median) | BCG Current vs. Interrupted + Never | 2.081 | 21 | 0.025 |
| Deaths/day/1 M (max) | BCG Current vs. Interrupted + Never | 3.122 | 21 | 0.003 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Interrupted + Never | 1.607 | 20 | 0.062 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Interrupted + Never | 1.933 | 20 | 0.034 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Interrupted + Never | 1.607 | 20 | 0.062 |

| | | | | |
|---|---|---|---|---|
| Deaths/1 M/week 3 (max) | BCG Current vs. Interrupted + Never | 1.308 | 20 | 0.103 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Interrupted + Never | 1.900 | 18 | 0.037 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Interrupted + Never | 1.876 | 18 | 0.038 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Interrupted + Never | 1.900 | 18 | 0.037 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Interrupted + Never | 1.962 | 18 | 0.033 |
| Deaths/1 M log (Total) | BCG Current vs. Interrupted + Never | 3.219 | 21 | 0.002 |
| Deaths/day/1 M log (mean) | BCG Current vs. Interrupted + Never | 3.035 | 21 | 0.003 |
| Deaths/day/1 M log (median) | BCG Current vs. Interrupted + Never | 3.128 | 19 | 0.003 |
| Deaths/day/1 M log (max) | BCG Current vs. Interrupted + Never | 3.154 | 21 | 0.002 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Interrupted + Never | 1.098 | 20 | 0.143 |
| Deaths/1 M/week 3 log (median) | BCG Current vs. Interrupted + Never | 1.501 | 17 | 0.076 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Interrupted + Never | 1.098 | 20 | 0.143 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Interrupted + Never | 1.023 | 20 | 0.159 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Interrupted + Never | 2.017 | 18 | 0.029 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Interrupted + Never | 2.388 | 15 | 0.015 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Interrupted + Never | 2.017 | 18 | 0.029 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Interrupted + Never | 2.305 | 18 | 0.017 |
| Deaths/1 M (Total) | BCG Current vs. Never | 4.808 | 8 | 0.001 |
| Days to 0.1 Death/1 M | BCG Current vs. Never | 1.325 | 8 | 0.111 |
| Days to 1 Death/1 M | BCG Current vs. Never | 0.719 | 8 | 0.246 |
| Deaths/day/1 M (mean) | BCG Current vs. Never | 4.997 | 8 | 0.001 |
| Deaths/day/1 M (median) | BCG Current vs. Never | 2.912 | 8 | 0.010 |
| Deaths/day/1 M (max) | BCG Current vs. Never | 12.536 | 8 | 0.000 |
| Deaths/1 M/week 3 (Total) | BCG Current vs. Never | 1.076 | 7 | 0.159 |
| Deaths/1 M/week 3 (median) | BCG Current vs. Never | 1.302 | 7 | 0.117 |
| Deaths/1 M/week 3 (mean) | BCG Current vs. Never | 1.076 | 7 | 0.159 |
| Deaths/1 M/week 3 (max) | BCG Current vs. Never | 0.887 | 7 | 0.202 |
| Deaths/1 M/month 1 (Total) | BCG Current vs. Never | 2.120 | 6 | 0.039 |
| Deaths/1 M/month 1 (median) | BCG Current vs. Never | 1.100 | 6 | 0.157 |
| Deaths/1 M/month 1 (mean) | BCG Current vs. Never | 2.120 | 6 | 0.039 |
| Deaths/1 M/month 1 (max) | BCG Current vs. Never | 2.208 | 6 | 0.035 |
| Deaths/1 M log (Total) | BCG Current vs. Never | 5.284 | 8 | 0.000 |
| Deaths/day/1 M log (mean) | BCG Current vs. Never | 4.294 | 8 | 0.001 |
| Deaths/day/1 M log (median) | BCG Current vs. Never | 3.306 | 7 | 0.007 |
| Deaths/day/1 M log (max) | BCG Current vs. Never | 3.804 | 8 | 0.003 |
| Deaths/1 M/week 3 log (Total) | BCG Current vs. Never | 0.412 | 7 | 0.346 |
| Deaths/1 M/week 3 log (median) | BCG Current vs. Never | 0.316 | 6 | 0.381 |
| Deaths/1 M/week 3 log (mean) | BCG Current vs. Never | 0.412 | 7 | 0.346 |
| Deaths/1 M/week 3 log (max) | BCG Current vs. Never | 0.438 | 7 | 0.337 |
| Deaths/1 M/month 1 log (Total) | BCG Current vs. Never | 1.843 | 6 | 0.057 |
| Deaths/1 M/month 1 log (median) | BCG Current vs. Never | 0.132 | 5 | 0.450 |
| Deaths/1 M/month 1 log (mean) | BCG Current vs. Never | 1.843 | 6 | 0.057 |
| Deaths/1 M/month 1 log (max) | BCG Current vs. Never | 2.132 | 6 | 0.039 |

**Supplementary Table S4. Correlation analyses of between BCG vaccination coverage (%) and COVID-19 mortality.** Analyses included the United States as a single country (**Coarse analysis (United States as a Country)**) and by state (**Coarse analysis (United States as states)**), because some of its states are larger than many European, Asian, and Latin American countries. Analyses were conducted globally for all the countries for which data were available and for a subset of countries after controlling for confounding variables (**Refined analysis (Controlling Confounding Variables)**). Mortality values are based on original numbers by country and corrected by the country's population and by the time of the epidemic to allow standardized evaluations. Significant analysis (p<0.05) are denoted in red. **DF**: degrees of freedom, **R²**: correlation coefficient, **AIC**: Akaike's information criteria.

| Dependent Variable | Independent Variable | DF | R² | P-Value | AIC |
|---|---|---|---|---|---|
| **Coarse analysis (United States as states)** | | | | | |
| Deaths/1 M (Total) | BCG % (mean) | 1 | 0.136 | 0.000 | 2881.170 |
| Days to 0.1 Death/1 M | BCG % (mean) | 1 | 0.030 | 0.015 | 1338.341 |
| Days to 1 Death/1 M | BCG % (mean) | 1 | 0.115 | 0.000 | 1158.996 |
| Deaths/day/1 M (mean) | BCG % (mean) | 1 | 0.155 | 0.000 | 1019.258 |
| Deaths/day/1 M (median) | BCG % (mean) | 1 | 0.143 | 0.000 | 881.125 |
| Deaths/day/1 M (max) | BCG % (mean) | 1 | 0.093 | 0.000 | 1742.152 |
| Deaths/1 M/week 3 (Total) | BCG % (mean) | 1 | 0.076 | 0.000 | 1744.446 |
| Deaths/1 M/week 3 (median) | BCG % (mean) | 1 | 0.145 | 0.000 | 759.792 |
| Deaths/1 M/week 3 (mean) | BCG % (mean) | 1 | 0.076 | 0.000 | 1051.687 |
| Deaths/1 M/week 3 (max) | BCG % (mean) | 1 | 0.041 | 0.007 | 1454.902 |
| Deaths/1 M/month 1 (Total) | BCG % (mean) | 1 | 0.156 | 0.000 | 1489.923 |
| Deaths/1 M/month 1 (median) | BCG % (mean) | 1 | 0.136 | 0.000 | 496.991 |
| Deaths/1 M/month 1 (mean) | BCG % (mean) | 1 | 0.157 | 0.000 | 639.521 |
| Deaths/1 M/month 1 (max) | BCG % (mean) | 1 | 0.111 | 0.000 | 1069.332 |
| Deaths/1 M log (Total) | BCG % (mean) | 1 | 0.262 | 0.000 | 841.162 |
| Deaths/day/1 M log (mean) | BCG % (mean) | 1 | 0.275 | 0.000 | 813.656 |
| Deaths/day/1 M log (median) | BCG % (mean) | 1 | 0.303 | 0.000 | 430.004 |
| Deaths/day/1 M log (max) | BCG % (mean) | 1 | 0.295 | 0.000 | 766.106 |
| Deaths/1 M/week 3 log (Total) | BCG % (mean) | 1 | 0.260 | 0.000 | 637.962 |
| Deaths/1 M/week 3 log (median) | BCG % (mean) | 1 | 0.306 | 0.000 | 414.852 |
| Deaths/1 M/week 3 log (mean) | BCG % (mean) | 1 | 0.265 | 0.000 | 635.884 |
| Deaths/1 M/week 3 log (max) | BCG % (mean) | 1 | 0.284 | 0.000 | 599.357 |
| Deaths/1 M/month 1 log (Total) | BCG % (mean) | 1 | 0.242 | 0.000 | 519.190 |
| Deaths/1 M/month 1 log (median) | BCG % (mean) | 1 | 0.282 | 0.000 | 338.344 |
| Deaths/1 M/month 1 log (mean) | BCG % (mean) | 1 | 0.247 | 0.000 | 518.093 |
| Deaths/1 M/month 1 log (max) | BCG % (mean) | 1 | 0.313 | 0.000 | 475.172 |
| Deaths/1 M (Total) | BCG % (median) | 1 | 0.141 | 0.000 | 2879.926 |
| Days to 0.1 Death/1 M | BCG % (median) | 1 | 0.036 | 0.008 | 1337.187 |
| Days to 1 Death/1 M | BCG % (median) | 1 | 0.118 | 0.000 | 1158.504 |

| | | | | | |
|---|---|---|---|---|---|
| Deaths/day/1 M (mean) | BCG % (median) | 1 | 0.160 | 0.000 | 1018.121 |
| Deaths/day/1 M (median) | BCG % (median) | 1 | 0.146 | 0.000 | 880.414 |
| Deaths/day/1 M (max) | BCG % (median) | 1 | 0.095 | 0.000 | 1741.721 |
| Deaths/1 M/week 3 (Total) | BCG % (median) | 1 | 0.076 | 0.000 | 1744.317 |
| Deaths/1 M/week 3 (median) | BCG % (median) | 1 | 0.147 | 0.000 | 759.382 |
| Deaths/1 M/week 3 (mean) | BCG % (median) | 1 | 0.076 | 0.000 | 1051.559 |
| Deaths/1 M/week 3 (max) | BCG % (median) | 1 | 0.041 | 0.006 | 1454.817 |
| Deaths/1 M/month 1 (Total) | BCG % (median) | 1 | 0.157 | 0.000 | 1489.771 |
| Deaths/1 M/month 1 (median) | BCG % (median) | 1 | 0.137 | 0.000 | 496.896 |
| Deaths/1 M/month 1 (mean) | BCG % (median) | 1 | 0.158 | 0.000 | 639.369 |
| Deaths/1 M/month 1 (max) | BCG % (median) | 1 | 0.112 | 0.000 | 1069.203 |
| Deaths/1 M log (Total) | BCG % (median) | 1 | 0.279 | 0.000 | 836.601 |
| Deaths/day/1 M log (mean) | BCG % (median) | 1 | 0.293 | 0.000 | 808.786 |
| Deaths/day/1 M log (median) | BCG % (median) | 1 | 0.325 | 0.000 | 426.176 |
| Deaths/day/1 M log (max) | BCG % (median) | 1 | 0.314 | 0.000 | 760.581 |
| Deaths/1 M/week 3 log (Total) | BCG % (median) | 1 | 0.280 | 0.000 | 633.507 |
| Deaths/1 M/week 3 log (median) | BCG % (median) | 1 | 0.326 | 0.000 | 411.507 |
| Deaths/1 M/week 3 log (mean) | BCG % (median) | 1 | 0.286 | 0.000 | 631.338 |
| Deaths/1 M/week 3 log (max) | BCG % (median) | 1 | 0.304 | 0.000 | 594.819 |
| Deaths/1 M/month 1 log (Total) | BCG % (median) | 1 | 0.262 | 0.000 | 515.869 |
| Deaths/1 M/month 1 log (median) | BCG % (median) | 1 | 0.300 | 0.000 | 335.915 |
| Deaths/1 M/month 1 log (mean) | BCG % (median) | 1 | 0.267 | 0.000 | 514.716 |
| Deaths/1 M/month 1 log (max) | BCG % (median) | 1 | 0.335 | 0.000 | 471.061 |
| **Coarse analysis (United States as a Country)** | | | | | |
| Deaths/1 M (Total) | BCG % (mean) | 1 | 0.237 | 0.000 | 2140.516 |
| Days to 0.1 Death/1 M | BCG % (mean) | 1 | 0.007 | 0.332 | 1008.942 |
| Days to 1 Death/1 M | BCG % (mean) | 1 | 0.007 | 0.411 | 797.634 |
| Deaths/day/1 M (mean) | BCG % (mean) | 1 | 0.242 | 0.000 | 683.583 |
| Deaths/day/1 M (median) | BCG % (mean) | 1 | 0.236 | 0.000 | 563.032 |
| Deaths/day/1 M (max) | BCG % (mean) | 1 | 0.126 | 0.000 | 1226.192 |
| Deaths/1 M/week 3 (Total) | BCG % (mean) | 1 | 0.108 | 0.000 | 1253.196 |
| Deaths/1 M/week 3 (median) | BCG % (mean) | 1 | 0.147 | 0.000 | 430.238 |
| Deaths/1 M/week 3 (mean) | BCG % (mean) | 1 | 0.108 | 0.000 | 762.827 |
| Deaths/1 M/week 3 (max) | BCG % (mean) | 1 | 0.077 | 0.002 | 1063.203 |
| Deaths/1 M/month 1 (Total) | BCG % (mean) | 1 | 0.234 | 0.000 | 1053.432 |
| Deaths/1 M/month 1 (median) | BCG % (mean) | 1 | 0.141 | 0.000 | 316.041 |
| Deaths/1 M/month 1 (mean) | BCG % (mean) | 1 | 0.234 | 0.000 | 448.019 |
| Deaths/1 M/month 1 (max) | BCG % (mean) | 1 | 0.166 | 0.000 | 773.300 |
| Deaths/1 M log (Total) | BCG % (mean) | 1 | 0.068 | 0.001 | 646.415 |
| Deaths/day/1 M log (mean) | BCG % (mean) | 1 | 0.059 | 0.003 | 625.025 |
| Deaths/day/1 M log (median) | BCG % (mean) | 1 | 0.225 | 0.000 | 287.457 |
| Deaths/day/1 M log (max) | BCG % (mean) | 1 | 0.078 | 0.001 | 586.033 |
| Deaths/1 M/week 3 log (Total) | BCG % (mean) | 1 | 0.057 | 0.012 | 461.798 |

| | | | | | |
|---|---|---|---|---|---|
| Deaths/1 M/week 3 log (median) | BCG % (mean) | 1 | 0.100 | 0.007 | 281.064 |
| Deaths/1 M/week 3 log (mean) | BCG % (mean) | 1 | 0.057 | 0.012 | 461.798 |
| Deaths/1 M/week 3 log (max) | BCG % (mean) | 1 | 0.070 | 0.006 | 437.666 |
| Deaths/1 M/month 1 log (Total) | BCG % (mean) | 1 | 0.071 | 0.012 | 390.912 |
| Deaths/1 M/month 1 log (median) | BCG % (mean) | 1 | 0.123 | 0.006 | 236.128 |
| Deaths/1 M/month 1 log (mean) | BCG % (mean) | 1 | 0.071 | 0.012 | 390.912 |
| Deaths/1 M/month 1 log (max) | BCG % (mean) | 1 | 0.115 | 0.001 | 359.421 |
| Deaths/1 M (Total) | BCG % (median) | 1 | 0.248 | 0.000 | 2137.799 |
| Days to 0.1 Death/1 M | BCG % (median) | 1 | 0.003 | 0.524 | 1009.488 |
| Days to 1 Death/1 M | BCG % (median) | 1 | 0.008 | 0.364 | 797.484 |
| Deaths/day/1 M (mean) | BCG % (median) | 1 | 0.254 | 0.000 | 681.140 |
| Deaths/day/1 M (median) | BCG % (median) | 1 | 0.245 | 0.000 | 561.389 |
| Deaths/day/1 M (max) | BCG % (median) | 1 | 0.130 | 0.000 | 1225.417 |
| Deaths/1 M/week 3 (Total) | BCG % (median) | 1 | 0.109 | 0.000 | 1253.100 |
| Deaths/1 M/week 3 (median) | BCG % (median) | 1 | 0.154 | 0.000 | 429.309 |
| Deaths/1 M/week 3 (mean) | BCG % (median) | 1 | 0.109 | 0.000 | 762.731 |
| Deaths/1 M/week 3 (max) | BCG % (median) | 1 | 0.077 | 0.002 | 1063.147 |
| Deaths/1 M/month 1 (Total) | BCG % (median) | 1 | 0.233 | 0.000 | 1053.449 |
| Deaths/1 M/month 1 (median) | BCG % (median) | 1 | 0.142 | 0.000 | 315.910 |
| Deaths/1 M/month 1 (mean) | BCG % (median) | 1 | 0.233 | 0.000 | 448.036 |
| Deaths/1 M/month 1 (max) | BCG % (median) | 1 | 0.166 | 0.000 | 773.312 |
| Deaths/1 M log (Total) | BCG % (median) | 1 | 0.086 | 0.000 | 643.613 |
| Deaths/day/1 M log (mean) | BCG % (median) | 1 | 0.077 | 0.001 | 622.291 |
| Deaths/day/1 M log (median) | BCG % (median) | 1 | 0.264 | 0.000 | 283.668 |
| Deaths/day/1 M log (max) | BCG % (median) | 1 | 0.099 | 0.000 | 582.599 |
| Deaths/1 M/week 3 log (Total) | BCG % (median) | 1 | 0.079 | 0.003 | 459.265 |
| Deaths/1 M/week 3 log (median) | BCG % (median) | 1 | 0.127 | 0.002 | 278.926 |
| Deaths/1 M/week 3 log (mean) | BCG % (median) | 1 | 0.079 | 0.003 | 459.265 |
| Deaths/1 M/week 3 log (max) | BCG % (median) | 1 | 0.092 | 0.001 | 435.031 |
| Deaths/1 M/month 1 log (Total) | BCG % (median) | 1 | 0.092 | 0.004 | 388.837 |
| Deaths/1 M/month 1 log (median) | BCG % (median) | 1 | 0.148 | 0.002 | 234.327 |
| Deaths/1 M/month 1 log (mean) | BCG % (median) | 1 | 0.092 | 0.004 | 388.837 |
| Deaths/1 M/month 1 log (max) | BCG % (median) | 1 | 0.142 | 0.000 | 356.659 |
| **Refined analysis (Controlling Confounding Variables)** | | | | | |
| Deaths/1 M (Total) | BCG % (mean) | 1 | 0.232 | 0.020 | 289.735 |
| Days to 0.1 Death/1 M | BCG % (mean) | 1 | 0.049 | 0.310 | 143.658 |
| Days to 1 Death/1 M | BCG % (mean) | 1 | 0.082 | 0.185 | 165.776 |
| Deaths/day/1 M (mean) | BCG % (mean) | 1 | 0.243 | 0.017 | 104.910 |
| Deaths/day/1 M (median) | BCG % (mean) | 1 | 0.221 | 0.024 | 107.107 |
| Deaths/day/1 M (max) | BCG % (mean) | 1 | 0.221 | 0.023 | 153.750 |
| Deaths/1 M/week 3 (Total) | BCG % (mean) | 1 | 0.061 | 0.269 | 165.035 |
| Deaths/1 M/week 3 (median) | BCG % (mean) | 1 | 0.059 | 0.276 | 73.237 |
| Deaths/1 M/week 3 (mean) | BCG % (mean) | 1 | 0.061 | 0.269 | 79.415 |

| | | | | | |
|---|---|---|---|---|---|
| Deaths/1 M/week 3 (max) | BCG % (mean) | 1 | 0.069 | 0.238 | 105.984 |
| Deaths/1 M/month 1 (Total) | BCG % (mean) | 1 | 0.182 | 0.061 | 211.998 |
| Deaths/1 M/month 1 (median) | BCG % (mean) | 1 | 0.037 | 0.418 | 52.615 |
| Deaths/1 M/month 1 (mean) | BCG % (mean) | 1 | 0.182 | 0.061 | 75.950 |
| Deaths/1 M/month 1 (max) | BCG % (mean) | 1 | 0.275 | 0.018 | 122.430 |
| Deaths/1 M log (Total) | BCG % (mean) | 1 | 0.149 | 0.069 | 89.229 |
| Deaths/day/1 M log (mean) | BCG % (mean) | 1 | 0.116 | 0.112 | 85.608 |
| Deaths/day/1 M log (median) | BCG % (mean) | 1 | 0.146 | 0.087 | 77.057 |
| Deaths/day/1 M log (max) | BCG % (mean) | 1 | 0.125 | 0.098 | 82.470 |
| Deaths/1 M/week 3 log (Total) | BCG % (mean) | 1 | 0.007 | 0.717 | 88.199 |
| Deaths/1 M/week 3 log (median) | BCG % (mean) | 1 | 0.043 | 0.392 | 75.953 |
| Deaths/1 M/week 3 log (mean) | BCG % (mean) | 1 | 0.007 | 0.717 | 88.199 |
| Deaths/1 M/week 3 log (max) | BCG % (mean) | 1 | 0.013 | 0.618 | 82.564 |
| Deaths/1 M/month 1 log (Total) | BCG % (mean) | 1 | 0.079 | 0.230 | 77.216 |
| Deaths/1 M/month 1 log (median) | BCG % (mean) | 1 | 0.014 | 0.646 | 65.856 |
| Deaths/1 M/month 1 log (mean) | BCG % (mean) | 1 | 0.079 | 0.230 | 77.216 |
| Deaths/1 M/month 1 log (max) | BCG % (mean) | 1 | 0.170 | 0.071 | 68.608 |
| Deaths/1 M (Total) | BCG % (median) | 1 | 0.259 | 0.013 | 288.890 |
| Days to 0.1 Death/1 M | BCG % (median) | 1 | 0.052 | 0.297 | 143.597 |
| Days to 1 Death/1 M | BCG % (median) | 1 | 0.079 | 0.193 | 165.853 |
| Deaths/day/1 M (mean) | BCG % (median) | 1 | 0.277 | 0.010 | 103.862 |
| Deaths/day/1 M (median) | BCG % (median) | 1 | 0.228 | 0.021 | 106.918 |
| Deaths/day/1 M (max) | BCG % (median) | 1 | 0.250 | 0.015 | 152.900 |
| Deaths/1 M/week 3 (Total) | BCG % (median) | 1 | 0.056 | 0.289 | 165.144 |
| Deaths/1 M/week 3 (median) | BCG % (median) | 1 | 0.055 | 0.292 | 73.324 |
| Deaths/1 M/week 3 (mean) | BCG % (median) | 1 | 0.056 | 0.289 | 79.524 |
| Deaths/1 M/week 3 (max) | BCG % (median) | 1 | 0.063 | 0.260 | 106.125 |
| Deaths/1 M/month 1 (Total) | BCG % (median) | 1 | 0.183 | 0.060 | 211.971 |
| Deaths/1 M/month 1 (median) | BCG % (median) | 1 | 0.032 | 0.450 | 52.714 |
| Deaths/1 M/month 1 (mean) | BCG % (median) | 1 | 0.183 | 0.060 | 75.923 |
| Deaths/1 M/month 1 (max) | BCG % (median) | 1 | 0.303 | 0.012 | 121.638 |
| Deaths/1 M log (Total) | BCG % (median) | 1 | 0.175 | 0.047 | 88.514 |
| Deaths/day/1 M log (mean) | BCG % (median) | 1 | 0.139 | 0.079 | 84.985 |
| Deaths/day/1 M log (median) | BCG % (median) | 1 | 0.162 | 0.071 | 76.668 |
| Deaths/day/1 M log (max) | BCG % (median) | 1 | 0.147 | 0.071 | 81.884 |
| Deaths/1 M/week 3 log (Total) | BCG % (median) | 1 | 0.009 | 0.682 | 88.157 |
| Deaths/1 M/week 3 log (median) | BCG % (median) | 1 | 0.045 | 0.386 | 75.932 |
| Deaths/1 M/week 3 log (mean) | BCG % (median) | 1 | 0.009 | 0.682 | 88.157 |
| Deaths/1 M/week 3 log (max) | BCG % (median) | 1 | 0.014 | 0.598 | 82.531 |
| Deaths/1 M/month 1 log (Total) | BCG % (median) | 1 | 0.090 | 0.198 | 76.968 |
| Deaths/1 M/month 1 log (median) | BCG % (median) | 1 | 0.017 | 0.617 | 65.810 |
| Deaths/1 M/month 1 log (mean) | BCG % (median) | 1 | 0.090 | 0.198 | 76.968 |
| Deaths/1 M/month 1 log (max) | BCG % (median) | 1 | 0.198 | 0.049 | 67.927 |