### **Supplemental Table 3: Sensitivity analysis showing the impact of outliers on predictors of mortality risk**

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| ***EXCLUDING CHINA, PERU, THAILAND,*** ***AND VIETNAM:*** | **MODEL 1: a priori model** | **MODEL 2: bootstrap variable selection**  |
| **Mortality risk (per 1,000 population)** | **Mortality risk (per 1,000 population)** |
| **Covariates** | **β** | **SE** | **P-value** | **OR** | **β** | **SE** | **P-value** | **OR** |
| *Intercept* | *-15.4579* | *3.2649* | *-* | *-* | *-25.3258* | *5.1687* | *-* | *-* |
| ***Sociodemographic factors*** |  |  |  |  |  |  |  |  |
|  GDP per capita ($1,000 USD, 2019) | -0.0003 | 0.0183 | *0.985* | *1.00* | - | - | *-* | *-* |
|  Urban population (%) | - | - | *-* | *-* | -0.0413 | 0.0165 | ***0.015*** | ***0.96*** |
|  Life expectancy at birth (years) | - | - | *-* | *-* | -0.1356 | 0.0715 | *0.064* | *0.87* |
|  Proportion over 65 years (%) | 0.0272 | 0.0589 | *0.646* | *1.03* | 0.1854 | 0.1268 | *0.150* | *1.20* |
|  Proportion overweight (%) | - | - | *-* | *-* | 0.0808 | 0.0196 | ***<.0001*** | ***1.08*** |
|  Proportion smoker (%) | - | - | *-* | *-* | -0.0349 | 0.0271 | *0.206* | *0.97* |
| ***Pandemic-related factors*** |  |  |  |  |  |  |  |  |
|  Time since 1st case (days) | - | - | *-* | *-* | - | - | *-* | *-* |
|  Time since 100 cases (days) | - | - | *-* | *-* | 0.0951 | 0.0289 | ***0.002*** | ***1.10*** |
|  Time since 1st death (days) | 0.0540 | 0.0172 | ***0.003*** | ***1.06*** | 0.0491 | 0.0178 | ***0.008*** | ***1.05*** |
|  Testing coverage (n. tests per 10,000 pop) | -0.0008 | 0.0150 | *0.959* | *1.00* | 0.0113 | 0.0101 | *0.265* | *1.01* |
| ***Health system strength*** |  |  |  |  |  |  |  |  |
|  Healthcare workers (n. per 1,000 pop) | 0.1064 | 0.0699 | *0.134* | *1.11* | - | - | *-* | *-* |
|  Hospital beds (n. per 1,000 pop) | -0.4108 | 0.1115 | ***0.001*** | ***0.68*** | -0.5336 | 0.1230 | ***<.0001*** | ***0.59*** |
|  Health expenditure (% of GDP) | - | - | *-* | *-* | - | - | *-* | *-* |
| ***Cultural characteristics*** |  |  |  |  |  |  |  |  |
|  Individualism vs. collectivism | 0.0136 | 0.0129 | *0.295* | *1.01* | - | - | *-* | *-* |
|  Uncertainty avoidance | 0.0385 | 0.0118 | ***<.0001*** | ***1.04*** | 0.0422 | 0.0115 | ***0.001*** | ***1.04*** |
|  Indulgence vs. restraint | - | - | *-* | *-* | 0.0366 | 0.0113 | ***0.002*** | ***1.04*** |
|  Long-term vs. short-term orientation | - | - | *-* | *-* | 0.0500 | 0.0134 | ***<.001*** | ***1.05*** |
|  Power distance | - | - | *-* | *-* | -0.0109 | 0.0100 | *0.285* | *0.99* |
|  Masculinity vs. femininity  | - | - | *-* | *-* | - | - | *-* | *-* |
| **Political characteristics** |  |  |  |  |  |  |  |  |
|  Polity (democracy vs authoritarianism) | -0.0237 | 0.0527 | *0.655* | *0.99* | - | - | - | - |
|   | pseudo-R2: 26% | pseudo R2: 49% |
|   | AIC:240.1 BIC: 263.0 | AIC:209.2 BIC:240.1  |

Table 7. Random-effects meta-regression analysis of the crude mortality risk at the last follow-up date (September 20, 2020) for 69 countries following the removal of statistical outliers. Dependent variables were logit transformation to stabilize the variance of proportions. Random-effects meta-regression was used to explore the impact of cultural characteristics on fatalities while adjusting for important predefined covariates following the removal of influential observations from the analysis in Table 4. Bold font indicates a statistically significant association with outcome at p<0.05.