**World: Date up to 30/06/2021**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | Beta Regression Model | | Linear Regression Model | | Linear Regression Model | |
| Dependent Variable | CFR | | Total Cases per millions | | New Cases | |
|  | **IRR** | **P-Value** | **Coeff.** | **P-Value** | **Coeff.** | **P-Value** |
| The percentage of people aged 65 and above | 1.01 (0.99-1.04) | 0.26058 | 1958.29 | 0.002 \*\* | -571.575 | 0.190 |
| Population density | 1.00 (0.99-1.01) | 0.58530 | 1.33 | 0.711 | 0.201 | 0.938 |
| COVID-19 total tests (/1000) | 1.00 (0.99-1.01) | 0.96506 | 2.68 | 0.371 | -0.281 | 0.896 |
| GHSI | 1.01 (0.99-1.02) | 0.35462 | -441.18 | 0.123 | 166.711 | 0.416 |
| GDP | 0.99 (0.98-0.99) | 0.00551 \*\* | -0.32 | 0.120 | -0.071 | 0.633 |
| WGI | 1.19 (0.99-1.41) | 0.05440 | 86.52 | 0.982 | 3277.031 | 0.241 |
| Obesity (%) | 1.02 (1.01-1.04) | 0.00363 \*\* | 1582.07 | 0.001 \*\*\* | -270.403 | 0.307 |
| Vaccination (/100) | 0.99 (0.99-1.01) | 0.14720 | 434.24 | 0.001 \*\* | 27.740 | 0.767 |
|  | **Pseudo R-squared: 0.4914** | | **Adjusted R-squared: 0.5282** | | **Adjusted R-squared: -0.04421** | |

**Top 20: Date up to 30/06/2021**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | Beta Regression Model | | Linear Regression Model | | Linear Regression Model | |
| Dependent Variable | CFR | | Total Cases per millions | | New Cases | |
|  | **IRR** | **P-Value** | **Coeff.** | **P-Value** | **Coeff.** | **P-Value** |
| The percentage of people aged 65 and above | 1.08 (1.01-1.15) | **0.026** | -3786.04 | 0.446 | 1078.50 | 0.244 |
| Population density | 1.01 (1.00-1.01) | **0.030** | -8.83 | 0.313 | 1.01 | 0.508 |
| COVID-19 total tests (/1000) | 1.00 (0.99-1.00) | 0.324 | 0.12 | 0.983 | -0.64 | 0.535 |
| GHSI | 1.01 (0.99-1.03) | 0.128 | -468.30 | 0.679 | 253.70 | 0.240 |
| GDP | 0.99 (0.98-1.00) | 0.134 | -1.16 | **0.088** | 0.04 | 0.686 |
| WGI | 0.95 (0.67-1.36) | 0.791 | -15516.63 | 0.512 | -2825.34 | 0.504 |
| Obesity (%) | 1.01 (0.97-1.05) | 0.592 | -984.87 | 0.701 | 460.42 | 0.335 |
| Vaccination (/100) | 1.00 (0.99-1.02) | 0.647 | -1088.73 | 0.284 | 263.78 | 0.164 |
|  | **Pseudo R-squared: 0.94** | | **Adjusted R-squared: 0.3014** | | **Adjusted R-squared: 0.06761** | |

**50% Vaccination: Date up to 30/06/2021**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | Beta Regression Model | | Linear Regression Model | | Linear Regression Model | |
| Dependent Variable | CFR | | Total Cases per millions | | New Cases | |
|  | **IRR** | **P-Value** | **Coeff.** | **P-Value** | **Coeff.** | **P-Value** |
| The percentage of people aged 65 and above | 1.04 (0.98-1.10) | 0.221 | 1958.29 | 0.199 | -31.48 | 0.927 |
| Population density | 1.00 (0.99-1.01) | 0.187 | 1.33 | 0.431 | 0.75 | 0.411 |
| COVID-19 total tests (/1000) | 1.01 (1.01-1.02) | **0.007** | 2.68 | 0.792 | 0.17 | 0.704 |
| GHSI | 1.02 (0.99-1.03) | 0.111 | -441.17 | 0.799 | 280.92 | **0.018** |
| GDP | 1.01 (1.01-1.02) | **0.001** | -0.32 | 0.380 | -0.06 | 0.168 |
| WGI | 1.02 (0.71-1.44) | 0.913 | 86.52 | 0.118 | -716.45 | 0.717 |
| Obesity (%) | 1.00 (0.96-1.04) | 0.883 | 1582.07 | 0.949 | 328.86 | 0.202 |
| Vaccination (/100) | 1.01 (0.99-1.01) | 0.578 | 434.24 | 0.102 | 38.17 | 0.398 |
|  | **Pseudo R-squared: 0.7781** | | **Adjusted R-squared: -0.0027** | | **Adjusted R-squared: 0.3345** | |