Supplemental Appendix Table A2: US COVID-19 death rate ratios by county characteristics as of May 5, 2020, age-adjusted using the indirect method\* (3 142 counties, 68 656 deaths, 322 903 030 population)

|  |  |  |  |
| --- | --- | --- | --- |
|   | Rate ratio | (95% CI) |  |
| % poverty (categories) |  |  |  |
| 0-4.9% | 1.00 | (reference) |  |
| 5-9.9% | 1.00 | (0.94 | , 1.06) |
| 10-14.9% | 0.66 | (0.62 | , 0.70) |
| 15-19.9% | 0.65 | (0.61 | , 0.70) |
| 20-100% | 1.78 | (1.68 | , 1.90) |
| Index of Concentration at the Extremes (high income white households versus low income black households) |
| Q1: [-0.522,0.114]† | 1.04 | (1.02 | , 1.06) |
| Q2: (0.114,0.159] | 0.54 | (0.53 | , 0.55) |
| Q3: (0.159,0.205] | 0.32 | (0.31 | , 0.33) |
| Q4: (0.205,0.283] | 0.49 | (0.48 | , 0.51) |
| Q5: (0.283,0.536] | 1.00 | (reference) |  |
| % crowding (quintiles) |  |  |  |
| Q1: [0%, 1.47%] | 1.00 | (reference) |  |
| Q2: (1.47%, 2.12%] | 1.29 | (1.26 | , 1.33) |
| Q3: (2.12%, 3.06%] | 1.92 | (1.87 | , 1.97) |
| Q4: (3.06%, 4.91%] | 1.66 | (1.62 | , 1.71) |
| Q5: (4.91%, 49.3%] | 3.35 | (3.27 | , 3.43) |
| % percent population of color |  |  |
| Q1: [0%, 17.2%] | 1.00 | (reference) |  |
| Q2: 17.2%, 30.2%] | 2.40 | (2.32 | , 2.49) |
| Q3: (30.2%, 44.3%] | 3.66 | (3.55 | , 3.79) |
| Q4: (44.3%, 61%] | 4.22 | (4.08 | , 4.36) |
| Q5: (61%, 100%] | 6.69 | (6.49 | , 6.91) |

\* Age-adjusted death rate ratios for categories of county social metrics estimated from Poisson log linear models for the observed count of deaths with log(expected deaths) as the offset. Expected deaths were computed by applying national age- and sex-specific death rates as of May 9, 2020 (see reference 30) to county age- and sex-specific population estimates from CDC WONDER (see reference 29).

† [*a,b*] indicates interval where value *x* is *a*≤*x*≤*b*; (*a,b*] indicates interval where value *x* is *a*<*x*≤*b*.