Supplemental Online Content

Kessler RC, Ruhm CJ, Puac-Polanco V, et al. Estimated prevalence of and factors associated with clinically significant anxiety and depression among US adults during the first year of the COVID-19 pandemic. JAMA Netw Open. 2022;5(6):e2217223. doi:10.1001/jamanetworkopen.2022.17223

eTable 1. Estimated Pandemic-Associated 30-Day Prevalence of Clinically Significant Anxiety and Depression During the First 10 Months of the COVID-19 Pandemic in Subsamples Defined by State-Month Differences in the COVID-19 Death Rate and the Unemployment Rate Compared With 2017-2018

eTable 2. Estimated Pandemic-Associated 30-Day Prevalence of Clinically Significant Anxiety and Depression During the First 10 Months of the COVID-19 Pandemic in Subsamples Defined by State-Month Differences in the COVID-19 Death Rate and the Unemployment Rate Compared With 2019

This supplemental material has been provided by the authors to give readers additional information about their work.
**Table 1. Estimated Pandemic-Associated 30-Day Prevalence of Clinically Significant Anxiety and Depression During the First 10 Months of the COVID-19 Pandemic in Subsamples Defined by State-Month Differences in the COVID-19 Death Rate and the Unemployment Rate Compared With 2017-2018**

|                      | Employed | Unemployed | Unable to work | Students | Others |
|----------------------|----------|------------|----------------|----------|--------|
|                      | ARD (95% CI) | ARD (95% CI) | ARD (95% CI) | ARD (95% CI) | ARD (95% CI) |
| I. Total sample      | 1.4c (1.0, 1.8) | -1.0 (-2.4, 0.5) | -3.6c (-4.7, -2.5) | 3.3c (2.4, 4.2) | 0.3 (-0.2, 0.7) |
|                       | N        |            |                |          |         |
|                       | 1,076,387 |            |                |          |         |
| II. Time-space variation in the state-month COVID-19 death rate |          |          |                |          |        |
| High                 | 2.2c (1.5, 3.0) | -0.5 (-3.1, 2.2) | -3.2c (-5.0, -1.4) | 3.5c (1.0, 6.1) | 0.2 (-0.6, 1.0) |
| High-average         | 1.5c (1.1, 1.9) | -3.5 (-7.9, 0.9) | -1.5 (-3.9, 0.8) | 2.3 (-0.3, 4.8) | 0.6 (-0.2, 1.4) |
| Low-average          | 1.5c (0.6, 2.3) | 0.6 (-1.7, 2.9) | -3.6c (-6.7, -0.5) | 4.5c (2.0, 7.1) | 0.3 (-0.5, 1.1) |
| Low                  | 0.3 (-0.3, 0.9) | -0.6 (-3.0, 1.8) | -4.4c (-6.8, -2.1) | 2.1 (-0.7, 5.0) | 0.1 (-0.5, 0.7) |
| F<sub>3,51</sub> 13.7d | 1.9 | 1.2 | 0.5 |         |
|                       |          |          |                |          | 0.5     |
| III. Time-space variation in the state-month 2020 unemployment rate compared to the same month in 2017-2019 |          |          |                |          |        |
| High                 | 1.7c (1.3, 2.1) | -1.7 (-3.8, 0.3) | -3.0 (-6.4, 0.5) | 2.1 (-0.4, 4.7) | 0.5 (-0.6, 1.6) |
| High-average         | 1.6c (0.6, 2.7) | 0.1 (-3.0, 3.3) | -2.5c (-5.0, -0.1) | 4.8c (3.3, 6.3) | 0.6 (-0.2, 1.4) |
| Low-average          | 1.6c (1.2, 2.1) | -1.9 (-3.9, 0.1) | -3.4c (-5.6, -1.2) | 2.9c (0.4, 5.4) | -0.1c (-0.7, 0.6) |
| Low                  | 0.5 (-0.1, 1.2) | -0.4 (-3.4, 2.5) | -3.8c (-6.2, -1.5) | 2.6 (-0.2, 5.5) | 0.3 (-0.2, 0.8) |
| F<sub>3,51</sub> 3.8d | 1.1 | 0.2 | 2.2 | 0.4 |

Abbreviations: ARD, adjusted risk difference; CI, confidence interval.

*Results are based on models similar to those in Table 4 other than that the comparisons are between 2017-2018 and 2020 rather than between 2017-2019 and 2020.

*Sample sizes are unweighted

*Significantly different from 2017-2018 at the .05 level based on design-adjusted two-sided tests.

*Significant difference in estimated pandemic-related changes in prevalence of clinically significant anxiety-depression across quartiles of state-month COVID-19 death rate or unemployment rate based on .05 level design-adjusted two-sided tests.
eTable 2. Estimated Pandemic-Associated 30-Day Prevalence of Clinically Significant Anxiety and Depression During the First 10 Months of the COVID-19 Pandemic in Subsamples Defined by State-Month Differences in the COVID-19 Death Rate and the Unemployment Rate Compared With 2019

|                  | Employed ARD (95% CI) | Unemployed ARD (95% CI) | Unable to work ARD (95% CI) | Students ARD (95% CI) | Others ARD (95% CI) | N^b |
|------------------|-----------------------|-------------------------|-----------------------------|-----------------------|---------------------|-----|
| I. Total sample  | 0.2 (-0.2, 0.6)       | -3.3^c (-5.3, -1.2)    | -4.3^c (-5.7, -3.0)         | -0.1 (-1.7, 1.5)     | 0.1 (-0.6, 0.8)     | 688,658 |
| II. Time-space variation in the state-month COVID-19 death rate |                      |                         |                             |                       |                     |      |
| High             | 1.0^c (0.3, 1.8)      | -1.9 (-4.6, 0.8)        | -4.4^c (-7.3, -1.6)         | -0.4 (-3.0, 2.3)     | 0.0 (-1.3, 1.2)     | 156,290 |
| High-average     | 0.1 (-0.4, 0.7)       | -4.3^c (-7.8, -0.7)     | -3.3^c (-5.0, -1.6)         | -2.6 (-5.5, 0.2)     | 0.1 (-0.9, 1.2)     | 159,737 |
| Low-average      | 0.3 (-0.4, 1.1)       | -1.6 (-6.1, 2.9)        | -5.7^c (-8.8, -2.7)         | 2.7 (-1.1, 6.5)      | 0.6 (-0.6, 1.8)     | 162,154 |
| Low              | -0.6 (-1.3, 0.0)      | -6.2^c (-10.4, -2.1)    | -3.6^c (-5.9, -1.3)         | -0.4 (-3.5, 2.7)     | 0.0 (-0.8, 0.7)     | 210,477 |
|                 | F_{3,51} 6.4^d 2.3    |                         | 0.9                         | 2.4                   | 0.6                 |      |
| III. Time-space variation in the state-month 2020 unemployment rate compared to the same month in 2017-2019 |                      |                         |                             |                       |                     |      |
| High             | 0.6^c (0.1, 1.2)      | -4.5^c (-7.5, -1.6)     | -5.2^c (-7.9, -2.6)         | -2.1 (-4.6, 0.4)     | 0.2 (-1.0, 1.4)     | 120,225 |
| High-average     | 0.4 (-0.4, 1.2)       | -2.5 (-5.4, 0.3)        | -5.9^c (-8.3, -3.6)         | 3.6^c (0.7, 6.5)     | 0.5 (-1.1, 2.0)     | 150,850 |
| Low-average      | 0.5 (-0.3, 1.2)       | -1.6 (-4.5, 1.2)        | -2.9^c (-5.0, -0.8)         | 1.9 (-4.2, 0.5)      | 0.3 (-0.8, 1.4)     | 181,987 |
| Low              | -0.6 (-1.3, 0.0)      | -4.9^c (-9.2, -0.5)     | -3.1^c (-5.6, -0.7)         | -0.2 (-3.9, 3.6)     | -0.1 (-0.9, 0.8)    | 235,596 |
|                 | F_{3,51} 3.5^d 0.9    |                         | 2.0                         | 4.4^d 0.2            |                     |      |

Abbreviations: ARD, adjusted risk difference; CI, confidence interval.
^aResults are based on models similar to those in Table 4 other than that the comparisons are between 2019 and 2020 rather than between 2017-2019 and 2020.
^bSample sizes are unweighted.
^cSignificantly different from 2019 at the .05 level based on design-adjusted two-sided tests.
^dSignificant difference in estimated pandemic-related changes in prevalence of clinically significant anxiety-depression across quartiles of state-month COVID-19 death rate or unemployment rate based on .05 level design-adjusted two-sided tests.