**Supplemental Table 2:** The association between state-issued mask mandates and hospital referral region (HRR) level changes in numbers of COVID-19 hospitalizations per 100,000 people and percent of beds occupied with COVID-19 patients, April 1, 2020 – December 31, 2020: Difference-in-difference (DID) and Event studies results

|  |  |  |
| --- | --- | --- |
|   | Dependent Variable: COVID-19 Hospitalizations per 100,000 Population | Dependent Variable: % of HRR Beds Occupied with COVID-19 Patients |
|   |
|   | **DID Results** | **Event Study Results** | **DID Results** | **Event Study Results** |
|   |   |   |   |   |
| DID Policy Variable | -1.3 (-4.1, 1.5) | N/A | -0.9 (-2.2, 0.5) | N/A |
|   |   |   |   |   |
| Event Study Variables |   |   |   |   |
|  29-42 days before | - | **-6.3 (-9.9, -2.7)** | - | **-1.6 (-3.0, -0.3)** |
|  15-28 days before | - | **-4.8 (-8.2, -1.3)** | - | **-1.0 (-1.9, -0.1)** |
|  1-14 days before | - | Reference | - | Reference |
|  0-14 days after | - | 0.6 (-0.9, 2.1) | - | 0.2 (-0.5, 0.8) |
|  15-28 days after | - | **-2.9 (-5.5, -0.4)** | - | -1.0 (-2.2, 0.2) |
|  29-42 days after | - | **-6.8 (-10.8, -2.8)** | - | **-2.3 (-4.1, -0.5)** |
|  43-56 days after | - | **-9.7 (-14.3, -4.9)** | - | **-3.5 (-5.6, -1.4)** |
|  57-70 days after | - | **-11.4 (-16.5, -6.2)** | - | **-4.4 (-6.7, -2.1)** |
|   |   |   |   |   |

Data Source: Policy data were collected from state government websites containing executive or administrative orders. HRR hospitalization data were collected by the Department of Health and Human Services.
Notes: All models controlled for other state-issued community prevention policies (i.e., stay-at-home orders, gathering bans, restaurant closures, and bar closures) and included HRR and day fixed effects. Results are displayed as coefficient estimates, and 95% confidence intervals are reported in parentheses. Bolded estimates indicate p<0.05. All analyses were weighted by HRR population and estimated with robust standard errors clustered at the county-level.