Table 1 (Panel B): County-level first-dose HBV vaccination rate, mortality rate, and socioeconomic and demographic characteristics of neonates aged 0-3 days by census region

|  | South Region | | | West Region | | | Northeast Region | | | Midwest Region | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pre-Policy | Post-Policy | Difference | Pre-Policy | Post-Policy | Difference | Pre-Policy | Post-Policy | Difference | Pre-Policy | Post-Policy | Difference |
|  | 2011-2017 | 2018-2019 |  | 2011-2017 | 2018-2019 |  | 2011-2017 | 2018-2019 |  | 2011-2017 | 2018-2019 |  |
| HBV Vaccination Rate | 68.716 | 73.482 | 4.766\*\*\* | 65.609 | 74.729 | 9.120\*\*\* | 61.730 | 74.086 | 12.356\*\*\* | 68.095 | 76.468 | 8.373\*\*\* |
|  | (8.730) | (7.526) |  | (8.155) | (6.822) |  | (10.021) | (8.326) |  | (6.551) | (3.917) |  |
| Log Number of Housing Units | 11.169 | 11.305 | 0.136\*\* | 11.674 | 11.735 | 0.061 | 11.860 | 11.869 | 0.009 | 10.964 | 11.123 | 0.159\*\* |
|  | (1.195) | (1.167) |  | (1.429) | (1.453) |  | (1.033) | (1.027) |  | (1.255) | (1.182) |  |
| Log Number of Multi-Unit Housing | 8.392 | 8.663 | 0.271\*\*\* | 9.128 | 9.211 | 0.083 | 9.467 | 9.501 | 0.034 | 8.297 | 8.514 | 0.216\* |
|  | (2.098) | (1.998) |  | (2.043) | (2.113) |  | (1.749) | (1.739) |  | (1.818) | (1.729) |  |
| Log Number of Mobile Homes | 8.489 | 8.503 | 0.014 | 8.851 | 8.856 | 0.006 | 7.661 | 7.701 | 0.040 | 7.607 | 7.658 | 0.050 |
|  | (1.105) | (1.158) |  | (1.188) | (1.168) |  | (0.901) | (0.898) |  | (0.869) | (0.830) |  |
| Log Number of Crowded Housing | 7.269 | 7.431 | 0.163\*\* | 8.313 | 8.433 | 0.120 | 7.732 | 7.798 | 0.065 | 6.705 | 6.868 | 0.164\* |
|  | (1.384) | (1.373) |  | (1.835) | (1.787) |  | (1.565) | (1.569) |  | (1.362) | (1.301) |  |
| Log Number of No Vehicle Households | 8.257 | 8.342 | 0.084+ | 8.698 | 8.728 | 0.029 | 9.464 | 9.457 | -0.007 | 8.117 | 8.268 | 0.151\* |
|  | (1.275) | (1.256) |  | (1.644) | (1.667) |  | (1.530) | (1.497) |  | (1.452) | (1.380) |  |
| Log Number of Limited English Speakers | 7.967 | 8.078 | 0.111 | 9.203 | 9.199 | -0.004 | 8.777 | 8.734 | -0.043 | 7.108 | 7.223 | 0.115 |
|  | (2.037) | (2.078) |  | (2.252) | (2.224) |  | (2.150) | (2.222) |  | (2.004) | (2.042) |  |
| Infant Mortality Rate | 2.695 | 2.273 | -0.422\*\*\* | 2.056 | 1.879 | -0.177 | 1.665 | 1.429 | -0.236\*\* | 2.813 | 2.373 | -0.439\*\*\* |
|  | (2.336) | (1.992) |  | (2.209) | (2.033) |  | (1.521) | (1.364) |  | (2.768) | (2.023) |  |
| African American (%) | 0.200 | 0.198 | -0.003 | 0.019 | 0.020 | 0.001 | 0.094 | 0.090 | -0.004 | 0.075 | 0.080 | 0.005 |
|  | (0.160) | (0.159) |  | (0.023) | (0.024) |  | (0.098) | (0.089) |  | (0.087) | (0.088) |  |
| American Indian and Alaskan Native | 0.013 | 0.013 | 0.000 | 0.039 | 0.037 | -0.002 | 0.005 | 0.006 | 0.001\*\* | 0.011 | 0.007 | -0.004\* |
|  | (0.036) | (0.034) |  | (0.097) | (0.087) |  | (0.005) | (0.007) |  | (0.057) | (0.012) |  |
| Hispanic American (%) | 0.132 | 0.144 | 0.012+ | 0.162 | 0.182 | 0.020+ | 0.106 | 0.119 | 0.013+ | 0.057 | 0.065 | 0.008\* |
|  | (0.168) | (0.173) |  | (0.145) | (0.146) |  | (0.107) | (0.116) |  | (0.060) | (0.061) |  |
| Asian American (%) | 0.025 | 0.031 | 0.005\*\*\* | 0.028 | 0.033 | 0.005+ | 0.044 | 0.050 | 0.006+ | 0.022 | 0.027 | 0.005\*\*\* |
|  | (0.029) | (0.034) |  | (0.032) | (0.038) |  | (0.048) | (0.054) |  | (0.022) | (0.025) |  |
| Median Household Income (Logged) | 10.752 | 10.865 | 0.113\*\*\* | 10.808 | 10.931 | 0.124\*\*\* | 10.919 | 11.017 | 0.098\*\*\* | 10.801 | 10.914 | 0.112\*\*\* |
|  | (0.274) | (0.281) |  | (0.196) | (0.217) |  | (0.256) | (0.254) |  | (0.201) | (0.198) |  |
| Children in Poverty (%) | 0.248 | 0.227 | -0.022\*\*\* | 0.206 | 0.179 | -0.027\*\*\* | 0.187 | 0.180 | -0.007 | 0.200 | 0.179 | -0.021\*\*\* |
|  | (0.091) | (0.088) |  | (0.071) | (0.071) |  | (0.077) | (0.074) |  | (0.076) | (0.069) |  |
| Rural Population (%) | 0.281 | 0.255 | -0.027\*\* | 0.249 | 0.228 | -0.021 | 0.233 | 0.234 | 0.001 | 0.296 | 0.272 | -0.024\* |
|  | (0.243) | (0.231) |  | (0.195) | (0.197) |  | (0.248) | (0.250) |  | (0.236) | (0.230) |  |
| High School Graduation | 0.783 | 0.848 | 0.065\*\*\* | 0.762 | 0.795 | 0.033\*\*\* | 0.826 | 0.855 | 0.030\*\*\* | 0.835 | 0.867 | 0.032\*\*\* |
|  | (0.094) | (0.070) |  | (0.094) | (0.072) |  | (0.085) | (0.071) |  | (0.081) | (0.071) |  |
| Some College Edu (%) | 0.579 | 0.612 | 0.033\*\*\* | 0.617 | 0.631 | 0.013 | 0.619 | 0.643 | 0.024\*\*\* | 0.624 | 0.653 | 0.029\*\*\* |
|  | (0.109) | (0.103) |  | (0.103) | (0.100) |  | (0.093) | (0.089) |  | (0.105) | (0.097) |  |
| Adult Smoking (%) | 0.200 | 0.175 | -0.025\*\*\* | 0.165 | 0.144 | -0.021\*\*\* | 0.185 | 0.158 | -0.027\*\*\* | 0.204 | 0.178 | -0.026\*\*\* |
|  | (0.049) | (0.033) |  | (0.049) | (0.033) |  | (0.042) | (0.025) |  | (0.047) | (0.029) |  |
| Unemployment Rate | 0.083 | 0.051 | -0.032\*\*\* | 0.080 | 0.052 | -0.028\*\*\* | 0.080 | 0.050 | -0.030\*\*\* | 0.080 | 0.045 | -0.034\*\*\* |
|  | (0.026) | (0.014) |  | (0.026) | (0.016) |  | (0.018) | (0.011) |  | (0.026) | (0.011) |  |
| Low Birthweight (%) | 0.091 | 0.090 | -0.002\* | 0.069 | 0.070 | 0.002+ | 0.078 | 0.078 | -0.001 | 0.076 | 0.076 | 0.000 |
|  | (0.017) | (0.016) |  | (0.012) | (0.011) |  | (0.011) | (0.009) |  | (0.013) | (0.013) |  |
| Female (%) | 0.510 | 0.511 | 0.001 | 0.500 | 0.499 | -0.001 | 0.511 | 0.509 | -0.001+ | 0.506 | 0.505 | -0.001 |
|  | (0.014) | (0.013) |  | (0.009) | (0.009) |  | (0.011) | (0.011) |  | (0.011) | (0.010) |  |
| HIV Prevalence | 2.663 | 2.473 | -0.190 | 0.806 | 0.944 | 0.139 | 1.124 | 1.119 | -0.004 | 1.005 | 0.924 | -0.082 |
|  | (4.581) | (3.849) |  | (1.283) | (1.349) |  | (1.727) | (1.654) |  | (1.538) | (0.938) |  |
| Per Capita Sexually Transmitted Infections | 5.404 | 4.888 | -0.516+ | 4.640 | 4.908 | 0.268 | 1.413 | 1.705 | 0.291\* | 3.868 | 3.928 | 0.059 |
|  | (8.206) | (7.497) |  | (10.297) | (10.040) |  | (1.571) | (2.010) |  | (4.879) | (5.604) |  |
| Note: The summary statistics table reports the means and standard deviations (in parentheses) of all variables in our final merged data, which consist of 8,397 total county-year observations from 2011 to 2019. The policy is the CDC’s changed recommendation of the first-dose HBV vaccination to neonates within 24 hours of birth on January 12, 2018. The asterisk in the third column of each panel denotes whether each pre and post-period difference is statistically significant at three levels: \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01. | | | | | | | | | | | | |