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 |
|  | 2011-2016 | 2018-2019 |  | 2011-2016 | 2018-2019 |  | 2011-2016 | 2018-2019 |  | 2011-2016 | 2018-2019 |  |
| HBV Vaccination Rate | 68.716 | 74.843 | 6.127\*\*\* | 65.609 | 75.888 | 10.279\*\*\* | 61.730 | 76.415 | 14.684\*\*\* | 68.095 | 77.933 | 9.838\*\*\* |
|  | (8.730) | (6.336) |  | (8.155) | (7.211) |  | (10.021) | (7.482) |  | (6.551) | (3.049) |  |
| Log Number of Housing Units | 11.169 | 11.341 | 0.172\*\*\* | 11.674 | 11.760 | 0.086 | 11.860 | 11.930 | 0.070 | 10.964 | 11.130 | 0.167\* |
|  | (1.195) | (1.158) |  | (1.429) | (1.446) |  | (1.033) | (1.011) |  | (1.255) | (1.233) |  |
| Log Number of Multi-Unit Housing | 8.392 | 8.740 | 0.348\*\*\* | 9.128 | 9.235 | 0.107 | 9.467 | 9.591 | 0.125 | 8.297 | 8.523 | 0.226\* |
|  | (2.098) | (1.954) |  | (2.043) | (2.114) |  | (1.749) | (1.700) |  | (1.818) | (1.803) |  |
| Log Number of Mobile Homes | 8.489 | 8.512 | 0.023 | 8.851 | 8.886 | 0.036 | 7.661 | 7.698 | 0.037 | 7.607 | 7.639 | 0.032 |
|  | (1.105) | (1.152) |  | (1.188) | (1.150) |  | (0.901) | (0.897) |  | (0.869) | (0.852) |  |
| Log Number of Crowded Housing | 7.269 | 7.467 | 0.199\*\* | 8.313 | 8.453 | 0.140 | 7.732 | 7.876 | 0.144 | 6.705 | 6.897 | 0.193\* |
|  | (1.384) | (1.379) |  | (1.835) | (1.780) |  | (1.565) | (1.550) |  | (1.362) | (1.339) |  |
| Log Number of No Vehicle Households | 8.257 | 8.363 | 0.105+ | 8.698 | 8.748 | 0.050 | 9.464 | 9.518 | 0.054 | 8.117 | 8.272 | 0.155+ |
|  | (1.275) | (1.254) |  | (1.644) | (1.657) |  | (1.530) | (1.472) |  | (1.452) | (1.435) |  |
| Log Number of Limited English Speakers | 7.967 | 8.110 | 0.143 | 9.203 | 9.219 | 0.016 | 8.777 | 8.852 | 0.075 | 7.108 | 7.250 | 0.142 |
|  | (2.037) | (2.103) |  | (2.252) | (2.206) |  | (2.150) | (2.206) |  | (2.004) | (2.173) |  |
| Infant Mortality Rate | 2.695 | 2.192 | -0.502\*\*\* | 2.056 | 1.817 | -0.239+ | 1.665 | 1.345 | -0.320\*\*\* | 2.813 | 2.380 | -0.432\*\* |
|  | (2.336) | (1.859) |  | (2.209) | (2.010) |  | (1.521) | (1.244) |  | (2.768) | (2.114) |  |
| African American (%) | 0.200 | 0.193 | -0.007 | 0.019 | 0.021 | 0.002 | 0.094 | 0.093 | -0.001 | 0.075 | 0.081 | 0.006 |
|  | (0.160) | (0.158) |  | (0.023) | (0.025) |  | (0.098) | (0.090) |  | (0.087) | (0.089) |  |
| American Indian and Alaskan Native | 0.013 | 0.012 | 0.000 | 0.039 | 0.032 | -0.006 | 0.005 | 0.007 | 0.001\*\* | 0.011 | 0.007 | -0.004\* |
|  | (0.036) | (0.033) |  | (0.097) | (0.074) |  | (0.005) | (0.008) |  | (0.057) | (0.013) |  |
| Hispanic American (%) | 0.132 | 0.148 | 0.017\* | 0.162 | 0.189 | 0.027+ | 0.106 | 0.125 | 0.019\* | 0.057 | 0.069 | 0.012\*\* |
|  | (0.168) | (0.177) |  | (0.145) | (0.154) |  | (0.107) | (0.118) |  | (0.060) | (0.066) |  |
| Asian American (%) | 0.025 | 0.031 | 0.006\*\*\* | 0.028 | 0.035 | 0.007\* | 0.044 | 0.050 | 0.006+ | 0.022 | 0.028 | 0.006\*\*\* |
|  | (0.029) | (0.033) |  | (0.032) | (0.041) |  | (0.048) | (0.054) |  | (0.022) | (0.026) |  |
| Median Household Income (Logged) | 10.752 | 10.887 | 0.135\*\*\* | 10.808 | 10.958 | 0.151\*\*\* | 10.919 | 11.043 | 0.124\*\*\* | 10.801 | 10.929 | 0.128\*\*\* |
|  | (0.274) | (0.279) |  | (0.196) | (0.225) |  | (0.256) | (0.256) |  | (0.201) | (0.199) |  |
| Children in Poverty (%) | 0.248 | 0.219 | -0.029\*\*\* | 0.206 | 0.173 | -0.033\*\*\* | 0.187 | 0.174 | -0.014\* | 0.200 | 0.175 | -0.025\*\*\* |
|  | (0.091) | (0.087) |  | (0.071) | (0.073) |  | (0.077) | (0.074) |  | (0.076) | (0.069) |  |
| Rural Population (%) | 0.281 | 0.248 | -0.033\*\* | 0.249 | 0.220 | -0.029 | 0.233 | 0.218 | -0.015 | 0.296 | 0.271 | -0.025+ |
|  | (0.243) | (0.225) |  | (0.195) | (0.189) |  | (0.248) | (0.241) |  | (0.236) | (0.235) |  |
| High School Graduation | 0.783 | 0.853 | 0.071\*\*\* | 0.762 | 0.798 | 0.036\*\*\* | 0.826 | 0.859 | 0.033\*\*\* | 0.835 | 0.873 | 0.038\*\*\* |
|  | (0.094) | (0.068) |  | (0.094) | (0.070) |  | (0.085) | (0.068) |  | (0.081) | (0.064) |  |
| Some College Edu (%) | 0.579 | 0.616 | 0.037\*\*\* | 0.617 | 0.632 | 0.015 | 0.619 | 0.646 | 0.027\*\*\* | 0.624 | 0.654 | 0.030\*\*\* |
|  | (0.109) | (0.102) |  | (0.103) | (0.101) |  | (0.093) | (0.088) |  | (0.105) | (0.099) |  |
| Adult Smoking (%) | 0.200 | 0.174 | -0.025\*\*\* | 0.165 | 0.143 | -0.022\*\*\* | 0.185 | 0.157 | -0.027\*\*\* | 0.204 | 0.179 | -0.026\*\*\* |
|  | (0.049) | (0.032) |  | (0.049) | (0.032) |  | (0.042) | (0.026) |  | (0.047) | (0.030) |  |
| Unemployment Rate | 0.083 | 0.048 | -0.035\*\*\* | 0.080 | 0.050 | -0.030\*\*\* | 0.080 | 0.049 | -0.031\*\*\* | 0.080 | 0.044 | -0.036\*\*\* |
|  | (0.026) | (0.012) |  | (0.026) | (0.017) |  | (0.018) | (0.012) |  | (0.026) | (0.011) |  |
| Low Birthweight (%) | 0.091 | 0.089 | -0.002\*\* | 0.069 | 0.071 | 0.003\* | 0.078 | 0.078 | 0.000 | 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 | 0.510 | -0.001 | 0.506 | 0.505 | -0.001 |
|  | (0.014) | (0.012) |  | (0.009) | (0.009) |  | (0.011) | (0.011) |  | (0.011) | (0.010) |  |
| HIV Prevalence | 2.663 | 2.369 | -0.294 | 0.806 | 0.996 | 0.190 | 1.124 | 1.100 | -0.024 | 1.005 | 0.943 | -0.062 |
|  | (4.581) | (3.672) |  | (1.283) | (1.463) |  | (1.727) | (1.699) |  | (1.538) | (0.999) |  |
| Per Capita Sexually Transmitted Infections | 5.404 | 4.640 | -0.763\* | 4.640 | 4.350 | -0.290 | 1.413 | 1.677 | 0.264+ | 3.868 | 4.168 | 0.299 |
|  | (8.206) | (6.587) |  | (10.297) | (6.238) |  | (1.571) | (2.029) |  | (4.879) | (6.570) |  |
| 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. | | | | | | | | | | | | |