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 | 69.019 | 74.843 | 5.824\*\*\* | 66.447 | 75.888 | 9.441\*\*\* | 62.968 | 76.415 | 13.447\*\*\* | 68.792 | 77.933 | 9.141\*\*\* |
|  | (8.775) | (6.336) |  | (8.124) | (7.211) |  | (10.216) | (7.482) |  | (6.532) | (3.049) |  |
| Infant Mortality Rate | 2.657 | 2.192 | -0.465\*\*\* | 2.051 | 1.817 | -0.234+ | 1.652 | 1.345 | -0.307\*\*\* | 2.755 | 2.380 | -0.375\*\* |
|  | (2.321) | (1.859) |  | (2.192) | (2.010) |  | (1.523) | (1.244) |  | (2.671) | (2.114) |  |
| African American (%) | 0.201 | 0.193 | -0.008 | 0.019 | 0.021 | 0.002 | 0.093 | 0.093 | 0.000 | 0.075 | 0.081 | 0.006 |
|  | (0.160) | (0.158) |  | (0.023) | (0.025) |  | (0.097) | (0.090) |  | (0.087) | (0.089) |  |
| American Indian and Alaskan Native | 0.013 | 0.012 | 0.000 | 0.040 | 0.032 | -0.007 | 0.005 | 0.007 | 0.001\*\* | 0.010 | 0.007 | -0.003\* |
|  | (0.037) | (0.033) |  | (0.099) | (0.074) |  | (0.005) | (0.008) |  | (0.054) | (0.013) |  |
| Hispanic American (%) | 0.132 | 0.148 | 0.016\* | 0.163 | 0.189 | 0.026+ | 0.106 | 0.125 | 0.019\* | 0.057 | 0.069 | 0.012\*\* |
|  | (0.167) | (0.177) |  | (0.143) | (0.154) |  | (0.108) | (0.118) |  | (0.058) | (0.066) |  |
| Asian American (%) | 0.026 | 0.031 | 0.005\*\*\* | 0.028 | 0.035 | 0.007\* | 0.045 | 0.050 | 0.006 | 0.022 | 0.028 | 0.005\*\*\* |
|  | (0.030) | (0.033) |  | (0.032) | (0.041) |  | (0.049) | (0.054) |  | (0.022) | (0.026) |  |
| Median Household Income (Logged) | 10.761 | 10.887 | 0.126\*\*\* | 10.816 | 10.958 | 0.142\*\*\* | 10.927 | 11.043 | 0.116\*\*\* | 10.812 | 10.929 | 0.117\*\*\* |
|  | (0.276) | (0.279) |  | (0.196) | (0.225) |  | (0.255) | (0.256) |  | (0.201) | (0.199) |  |
| Children in Poverty (%) | 0.247 | 0.219 | -0.028\*\*\* | 0.204 | 0.173 | -0.031\*\*\* | 0.188 | 0.174 | -0.014\*\* | 0.199 | 0.175 | -0.024\*\*\* |
|  | (0.091) | (0.087) |  | (0.071) | (0.073) |  | (0.077) | (0.074) |  | (0.075) | (0.069) |  |
| Rural Population (%) | 0.279 | 0.248 | -0.031\*\* | 0.249 | 0.220 | -0.029 | 0.237 | 0.218 | -0.019 | 0.293 | 0.271 | -0.022 |
|  | (0.243) | (0.225) |  | (0.197) | (0.189) |  | (0.251) | (0.241) |  | (0.234) | (0.235) |  |
| High School Graduation | 0.790 | 0.853 | 0.063\*\*\* | 0.765 | 0.798 | 0.033\*\*\* | 0.829 | 0.859 | 0.029\*\*\* | 0.837 | 0.873 | 0.035\*\*\* |
|  | (0.093) | (0.068) |  | (0.092) | (0.070) |  | (0.084) | (0.068) |  | (0.081) | (0.064) |  |
| Some College Edu (%) | 0.582 | 0.616 | 0.034\*\*\* | 0.619 | 0.632 | 0.013 | 0.622 | 0.646 | 0.024\*\*\* | 0.627 | 0.654 | 0.026\*\*\* |
|  | (0.109) | (0.102) |  | (0.103) | (0.101) |  | (0.093) | (0.088) |  | (0.104) | (0.099) |  |
| Adult Smoking (%) | 0.196 | 0.174 | -0.022\*\*\* | 0.162 | 0.143 | -0.020\*\*\* | 0.181 | 0.157 | -0.023\*\*\* | 0.201 | 0.179 | -0.022\*\*\* |
|  | (0.048) | (0.032) |  | (0.048) | (0.032) |  | (0.041) | (0.026) |  | (0.046) | (0.030) |  |
| Unemployment Rate | 0.080 | 0.048 | -0.032\*\*\* | 0.077 | 0.050 | -0.026\*\*\* | 0.076 | 0.049 | -0.027\*\*\* | 0.076 | 0.044 | -0.032\*\*\* |
|  | (0.026) | (0.012) |  | (0.026) | (0.017) |  | (0.020) | (0.012) |  | (0.027) | (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 (%) | 0.511 | 0.511 | 0.001 | 0.500 | 0.499 | -0.001 | 0.510 | 0.510 | -0.001 | 0.506 | 0.505 | -0.001 |
|  | (0.014) | (0.012) |  | (0.008) | (0.009) |  | (0.011) | (0.011) |  | (0.011) | (0.010) |  |
| HIV Prevalence | 2.665 | 2.369 | -0.296+ | 0.810 | 0.996 | 0.186 | 1.128 | 1.100 | -0.028 | 0.990 | 0.943 | -0.047 |
|  | (4.525) | (3.672) |  | (1.256) | (1.463) |  | (1.705) | (1.699) |  | (1.464) | (0.999) |  |
| Per Capita Sexually Transmitted Infections | 5.400 | 4.640 | -0.760\* | 4.822 | 4.350 | -0.472 | 1.464 | 1.677 | 0.214 | 3.816 | 4.168 | 0.352 |
|  | (8.321) | (6.587) |  | (11.027) | (6.238) |  | (1.642) | (2.029) |  | (4.669) | (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. | | | | | | | | | | | | |