Supplemental Table 4: Unadjusted and adjusted hazard ratio of receiving influenza vaccination among children 2-17 years of age with asthma in the United States, 2010-2013.

|  |  |  |
| --- | --- | --- |
| Sociodemographic/geographic characteristics | Unadjusted HR ( 95% CI) | Adjusted HR (95% CI) |
| Age |   |   |
| 2-5 years | Reference | Reference |
| 6-11 years | 0.96 [0.82,1.13] | 0.97 [0.83,1.15] |
| 12-17 years  | 0.73 [0.62,0.86]\*\* | 0.76 [0.64,0.90]\*\* |
| Sex |   |   |
| Male | Reference | Reference |
| Female | 0.88 [0.77,1.02]  | 0.91 [0.79,1.05] |
| Race/Ethnicity† |   |   |
| Non-Hispanic white  | Reference | Reference |
| Non-Hispanic black | 0.91 [0.77,1.09] | 0.94 [0.77,1.14] |
| Non-Hispanic other/ multiple race | 1.12 [0.91,1.39] | 1.12 [0.89,1.39] |
| Hispanic  | 1.08 [0.93,1.25] | 1.14 [0.96,1.35] |
| Insurance |   |   |
| Private (any) | Reference  | Reference |
| Public only | 0.97 [0.85,1.10] | 1.01 [0.86,1.18] |
| Other | 1.13 [0.79,1.62] | 1.24 [0.86,1.79] |
| Uninsured | 0.49 [0.34,0.72]\*\* | 0.52 [0.36-0.77]\*\* |
| Highest level of Education in Family |   |   |
| College or greater | Reference | Reference |
| Some college/ associates degree/technical degree  | 0.78 [0.67,0.92]\*\* | 0.82 [0.69,0.98] \* |
| High School graduate/GED | 0.86 [0.72,1.02] | 0.89 [0.74,1.08] |
| Less than High School | 0.88 [0.71,1.10] | 0.88 [0.68,1.13] |
| Urban-Rural Status |   |   |
| Large central metro | Reference | Reference |
| Large fringe metro | 1.14 [0.96,1.35] | 1.14 [0.95,1.35] |
| Medium/small metro | 0.92 [0.78,1.08] | 0.94 [0.79,1.10] |
| Micropolitan/non-core | 0.90 [0.73,1.10] | 0.96 [0.77,1.20] |
| Region |   |   |
| Northeast | Reference | Reference |
| Midwest | 0.83 [0.67,1.02] | 0.87 [0.71,1.08] |
| South | 0.76 [0.64,0.90]\*\* | 0.81 [0.69,0.96]\* |
| West | 0.76 [0.63,0.92]\*\* | 0.79 [0.65,0.95]\* |
| Any asthma attack in last 12 months |  |  |
| No | Reference | Reference |
| Yes | 1.04 [0.92, 1.17] | 1.01 [0.89,1.14] |

† Race/ethnicity determined by parental report. Children of Hispanic ethnicity may be of any race.

\*Significantly different than reference group, p<0.05

\*\*Significantly different than reference group, p<0.01

SE, standard error; HR, hazard ratio; CI, confidence interval