\*Where s is a smooth function

|  |  |  |
| --- | --- | --- |
| *Covid group* | *proportion of sick babies in the first year* | *proportion of sick babies in the second year* |
| *1* | *0.773* | *0.517* |
| *2* | *0.559* | *0.593* |
| *3* | *0.713* | *0.675* |
| *4* | *0.779* | *0.682* |

|  |  |  |
| --- | --- | --- |
|  | | |
|  | Dependent variable: | |
|  |  | |
|  | *is\_atopic\_first\_year* | |
|  | logistic | GAM |
| *SES\_group6-8* | *0.454\*\*\** | *0.454\*\*\** |
|  | *(0.161)* | *(0.161)* |
|  |  |  |
| *SES\_group9-10* | *0.376\*\** | *0.362\** |
|  | *(0.191)* | *(0.191)* |
|  |  |  |
| *gender* | *-0.466\*\*\** | *-0.459\*\*\** |
|  | *(0.109)* | *(0.109)* |
|  |  |  |
| *type\_of\_pregnancy1* | *-0.360\** | *-0.376\** |
|  | *(0.206)* | *(0.206)* |
|  |  |  |
| *mother\_Atopic\_diseases* | *-0.014* | *-0.023* |
|  | *(0.142)* | *(0.142)* |
|  |  |  |
| *father\_Atopic\_diseases* | *0.171* | *0.185* |
|  | *(0.163)* | *(0.163)* |
|  |  |  |
| *mother\_year\_birth* | *0.036\*\*\** | *0.039\*\*\** |
|  | *(0.014)* | *(0.014)* |
|  |  |  |
| *mother\_education2* | *0.459\** | *0.451\** |
|  | *(0.239)* | *(0.238)* |
|  |  |  |
| *mother\_education3* | *0.227* | *0.228* |
|  | *(0.169)* | *(0.169)* |
|  |  |  |
| *number\_of\_children* | *0.046* | *0.044* |
|  | *(0.055)* | *(0.055)* |
|  |  |  |
| *covid\_time2* | *-1.060\*\*\** |  |
|  | *(0.203)* |  |
|  |  |  |
| *covid\_time3* | *-0.391\** |  |
|  | *(0.210)* |  |
|  |  |  |
| *covid\_time4* | *-0.056* |  |
|  | *(0.257)* |  |
|  |  |  |
| *Constant* | *0.268* | *-0.360* |
|  | *(0.477)* | *(0.473)* |
|  |  |  |
|  | | |
| *Observations* | *1,630* | *1,630* |
| *Adjusted R2* |  | *0.049* |
| *Log Likelihood* | *-989.930* | *-1,005.000* |
| *Akaike Inf. Crit.* | *2,007.900* |  |
| *UBRE* |  | *0.233* |
|  | | |
| Note: | *\*p\*\*p\*\*\*p<0.01* | |

|  |  |  |
| --- | --- | --- |
|  | | |
|  | Dependent variable: | |
|  |  | |
|  | *is\_atopic\_second\_year* | |
|  | logistic | GAM |
| *SES\_group6-8* | *0.245* | *0.248* |
|  | *(0.158)* | *(0.158)* |
|  |  |  |
| *SES\_group9-10* | *0.086* | *0.091* |
|  | *(0.187)* | *(0.187)* |
|  |  |  |
| *gender* | *-0.272\*\*\** | *-0.276\*\*\** |
|  | *(0.105)* | *(0.105)* |
|  |  |  |
| *mother\_Atopic\_diseases* | *0.025* | *0.023* |
|  | *(0.137)* | *(0.137)* |
|  |  |  |
| *father\_Atopic\_diseases* | *0.253* | *0.258* |
|  | *(0.160)* | *(0.160)* |
|  |  |  |
| *mother\_year\_birth* | *-0.004* | *-0.006* |
|  | *(0.013)* | *(0.013)* |
|  |  |  |
| *mother\_education2* | *-0.034* | *-0.044* |
|  | *(0.223)* | *(0.222)* |
|  |  |  |
| *mother\_education3* | *0.176* | *0.172* |
|  | *(0.164)* | *(0.164)* |
|  |  |  |
| *number\_of\_children* | *-0.135\*\** | *-0.138\*\*\** |
|  | *(0.052)* | *(0.052)* |
|  |  |  |
| *type\_of\_pregnancy1* | *0.096* | *0.112* |
|  | *(0.192)* | *(0.192)* |
|  |  |  |
| *vaccine\_12mo* | *0.292* | *0.302* |
|  | *(0.257)* | *(0.257)* |
|  |  |  |
| *nursing\_setup\_at\_12mo2* | *-0.122* | *-0.104* |
|  | *(0.217)* | *(0.217)* |
|  |  |  |
| *nursing\_setup\_at\_12mo3* | *0.185* | *0.170* |
|  | *(0.119)* | *(0.119)* |
|  |  |  |
| *covid\_time2* | *0.368\*\** |  |
|  | *(0.177)* |  |
|  |  |  |
| *covid\_time3* | *0.718\*\*\** |  |
|  | *(0.183)* |  |
|  |  |  |
| *covid\_time4* | *0.718\*\*\** |  |
|  | *(0.223)* |  |
|  |  |  |
| *Constant* | *-0.393* | *0.149* |
|  | *(0.522)* | *(0.525)* |
|  |  |  |
|  | | |
| *Observations* | *1,630* | *1,630* |
| *Adjusted R2* |  | *0.025* |
| *Log Likelihood* | *-1,050.400* | *-1,064.300* |
| *Akaike Inf. Crit.* | *2,134.900* |  |
| *UBRE* |  | *0.306* |
|  | | |
| Note: | *\*p\*\*p\*\*\*p<0.01* | |