**Table, Supplemental Digital Content 5.** Sensitivity analyses of the association of anesthetic exposure before the age of 3 years with any learning disability (LD) (reading, mathematics, or written language) or attention-deficit hyperactivity disorder (ADHD) with those children receiving cardiovascular or neurological surgery excluded.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Unadjusted | | Covariate Adjusted 1\* | | Covariate Adjusted 2\*\* | |
|  | Hazard Ratio (95% CI) | p value | Hazard Ratio (95% CI) | p value | Hazard Ratio (95% CI) | p value |
| ***LD*** |  |  |  |  |  |  |
| **No. of anesthesia exposures** |  | 0.021 |  | 0.027 |  | 0.034 |
| 0 (n=463) | Reference |  | Reference |  | Reference |  |
| 1 (n=451) | 1.01 (0.69 to 1.47) | 0.965 | 1.00 (0.68 to 1.46) | 0.998 | 1.04 (0.70 to 1.54) | 0.844 |
| ≥2 (n=106) | 1.94 (1.18 to 3.21) | 0.010 | 1.90 (1.15 to 3.15) | 0.013 | 1.95 (1.15 to 3.31) | 0.013 |
| ***ADHD*** |  |  |  |  |  |  |
| **No. of anesthesia exposures** |  | <.001 |  | <.001 |  | 0.003 |
| 0 (n=463) | Reference |  | Reference |  | Reference |  |
| 1 (n=451) | 1.35 (0.95 to 1.93) | 0.098 | 1.34 (0.93 to 1.91) | 0.116 | 1.30 (0.89 to 1.91) | 0.171 |
| ≥2 (n=106) | 2.59 (1.60 to 4.19) | <.001 | 2.58 (1.59 to 4.20) | <.001 | 2.45 (1.47 to 4.09) | <.001 |

\* Adjusting for sex, birth weight, gestational age, and mother’s education.

\*\* Adjusting for sex, birth weight, gestational age, mother’s education, and socioeconomic status.

This analysis excluded all children who received cardiovascular or neurological surgery (6 singly-exposed children and 10 multiply-exposed children).