**SDC1 Table** - Final comprehensive generalized estimating equation (GEE) multivariable model of main effects associated with probability of developing leukoencephalopathy. Influential factors include time point, risk, sex, age at diagnosis, and their interactions. The β estimates (Estimate) and their standard errors (SE) are listed. The final model was tested using chi-square tests based on the Wald statistics.

| **Parameter** |  | | **Estimate** | **SE** | **Wald 95% CI** | | **Wald χ2** | **Pr > χ2** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Intercept** |  |  | -1.5290 | 0.2497 | -2.0184 | -1.0397 | 37.51 | <.0001 |
| **Time point** | MR1 |  | -1.4849 | 0.4757 | -2.4174 | -0.5525 | 9.74 | 0.0018 |
| **Time point** | MR2 |  | 0.3305 | 0.2975 | -0.2526 | 0.9135 | 1.23 | 0.2666 |
| **Time point** | MR3 |  | 0.1083 | 0.3146 | -0.5083 | 0.7248 | 0.12 | 0.7307 |
| **Time point** | MR4 |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group** | ≤5 year |  | -0.9003 | 0.4062 | -1.6964 | -0.1042 | 4.91 | 0.0267 |
| **Age group** | >5 year |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Risk** | LR |  | -0.6023 | 0.3090 | -1.2079 | 0.0034 | 3.80 | 0.0513 |
| **Risk** | SHR |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Sex** | Female |  | 0.3783 | 0.2285 | -0.0695 | 0.8261 | 2.74 | 0.0978 |
| **Sex** | Male |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Time point** | ≤5 year | MR1 | 1.7161 | 0.6115 | 0.5175 | 2.9146 | 7.88 | 0.0050 |
| **Age group\*Time point** | ≤5 year | MR2 | 0.8687 | 0.4470 | -0.0074 | 1.7448 | 3.78 | 0.0520 |
| **Age group\*Time point** | ≤5 year | MR3 | 0.4248 | 0.4763 | -0.5088 | 1.3585 | 0.80 | 0.3725 |
| **Age group\*Time point** | ≤5 year | MR4 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Time point** | >5 year | MR1 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Time point** | >5 year | MR2 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Time point** | >5 year | MR3 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Time point** | >5 year | MR4 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Sex\*Risk** | Female | LR | -1.3393 | 0.3409 | -2.0075 | -0.6712 | 15.44 | <.0001 |
| **Sex\*Risk** | Female | SHR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Sex\*Risk** | Male | LR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Sex\*Risk** | Male | SHR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Risk** | ≤5 year | LR | 1.2725 | 0.3863 | 0.5153 | 2.0298 | 10.85 | 0.0010 |
| **Age group\*Risk** | ≤5 year | SHR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Risk** | >5 year | LR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |
| **Age group\*Risk** | >5 year | SHR | 0.0000 | 0.0000 | 0.0000 | 0.0000 |  |  |