Supplemental Digital File 4

Statistical Supplemental

**Asymptotic Offset Model**

$$Score=Limit\left(1-e^{-e^{λ}\left(age-Offset\right)}\right)$$

where$Age90=\frac{-log⁡(1-0.9)}{e^{λ}}$ is the length of time required for 90% of the Limit to be achieved and the

**Offset** parameter is the age at which a child is expected to have a score of zero.

**50% Ranges** represent the expected range of the parameter for the central 50% of the population and were calculated as fixed effect ± z0.25 x random effect