

## Link function: extreme values of $p$

When running models with dichotomous outcomes with HLM, it may be that for some cells  $p$  may be equal to 0 or 1. In the case of the binomial model, which uses the link function  $\log(p / (1 - p))$ , the log will be undefined for the case  $p = 1$ . HLM will make a slight adjustment in the case of extreme values of  $p$ . At the end of macro iteration 1, when the metric is shifted to the logarithmic, values  $< 0.01$  will be changed to 0.01, and values  $> 0.99$  will be changed to 0.99.