Posterior Predictive Check Linearity Model-predicted lines should resemble observed data line 0.005 0.004 Density 0.003 0.002 0.001 0.000 250 500 750 1000 1250 log1p(evs_score) Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 1.6 √|Std. residuals 1.2 8.0 0.4 5.50 5.00 5.25 5.75 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty Variance Inflation Factor (VIF, log-scaled) 10 allocation_group allocation_group:visit visit Low (< 5) Moderate (< 10) Normality of Random Effects (record_id) Dots should be plotted along the line 0.4 RE Quantiles 0.0 -0.4

Theoretical Quantiles

-0.8

-2

Reference line should be flat and horizontal 0.5 Residuals -0.5

5.50

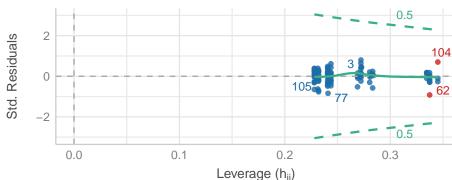
Fitted values

5.75

Influential Observations Points should be inside the contour lines

5.00

5.25



Normality of Residuals Dots should fall along the line

