Posterior Predictive Check Model-predicted lines should resemble observed data line 0.04 Density 0.03 0.02 0.01 0.00 30 90 log1p(labs_alt) Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 1.5 √|Std. residuals Std. Residuals 1.0 0.5 0.0 3.0 3.4 3.8 4.2 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty Variance Inflation Factor (VIF, log-scaled) 10 2 allocation_group allocation_group:visit visit Low (< 5) Normality of Random Effects (record_id) Dots should be plotted along the line

2

0

Theoretical Quantiles

1.0

0.5

0.0

-0.5

-1.0

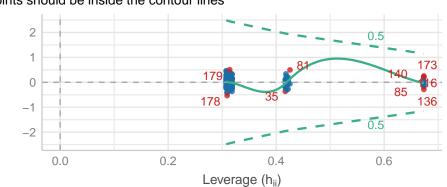
-2

RE Quantiles

Linearity Reference line should be flat and horizontal 0.3 Residuals 0.0 -0.3

Influential Observations Points should be inside the contour lines

3.0



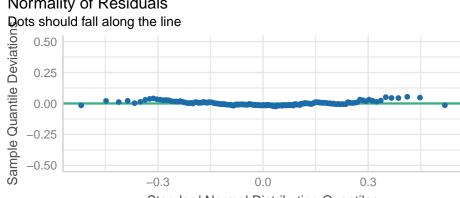
3.4

Fitted values

3.8

4.2

Normality of Residuals



Standard Normal Distribution Quantiles