Posterior Predictive Check Model-predicted lines should resemble observed data line 0.06 Density 0.04 0.02 0.00 25 75 log1p(handgrip) Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 2.0 √|Std. residuals 1.5 1.0 0.5 0.0 3.0 3.8 3.4 4.2 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) Normality of Random Effects (record_id) Dots should be plotted along the line 0.5 RE Quantiles

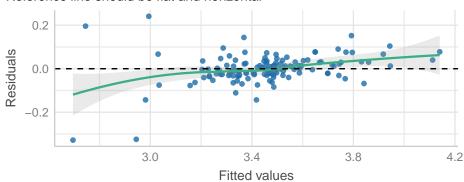
0 Theoretical Quantiles

0.0

-0.5

-2

Linearity Reference line should be flat and horizontal

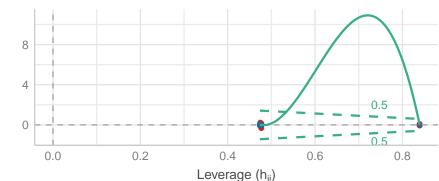


Influential Observations

Residuals

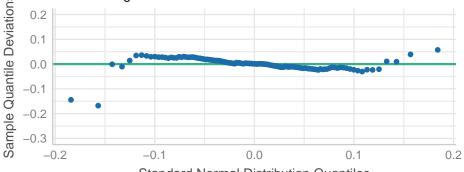
Std.

Points should be inside the contour lines



Normality of Residuals

Dots should fall along the line



Standard Normal Distribution Quantiles