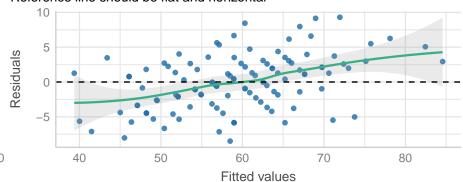
Posterior Predictive Check Model-predicted lines should resemble observed data line 0.04 Density 0.03 0.02 0.01 0.00 20 40 80 100 score environment Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal √|Std. residuals 1.0 0.5 40 80 50 60 70 Fitted 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 30 20 RE Quantiles 10

Theoretical Quantiles

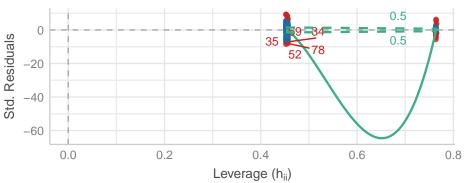
0 -10-20

Linearity Reference line should be flat and horizontal

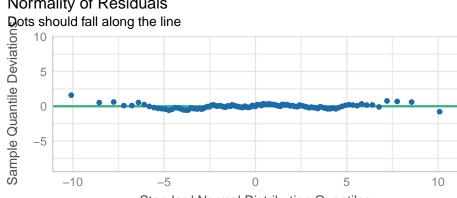


Influential Observations

Points should be inside the contour lines



Normality of Residuals



Standard Normal Distribution Quantiles