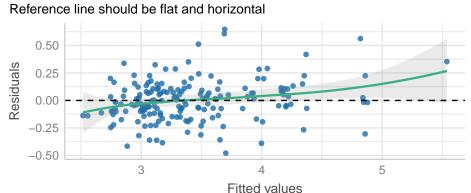
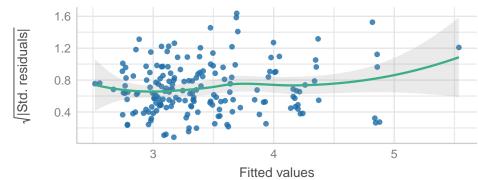
Posterior Predictive Check Model-predicted lines should resemble observed data line 0.03 Density 0.02 0.01 0.00 100 200 300 400 500 log1p(labs_ggt) Observed data — Model-predicted data

Linearity



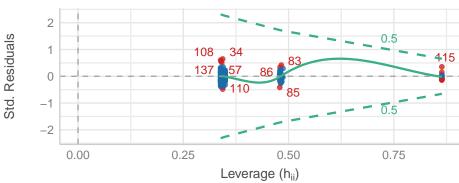
Homogeneity of Variance

Reference line should be flat and horizontal



Influential Observations

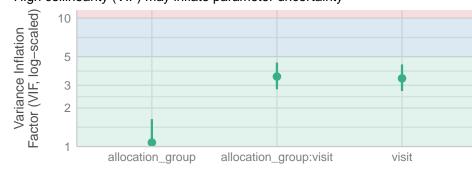
Points should be inside the contour lines



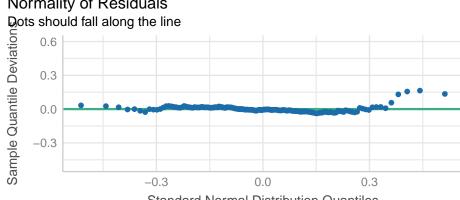
Collinearity

RE Quantiles

High collinearity (VIF) may inflate parameter uncertainty



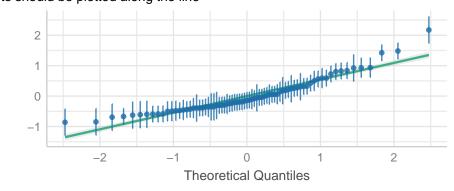
Normality of Residuals



Low (< 5)

Normality of Random Effects (record_id)

Dots should be plotted along the line



Standard Normal Distribution Quantiles