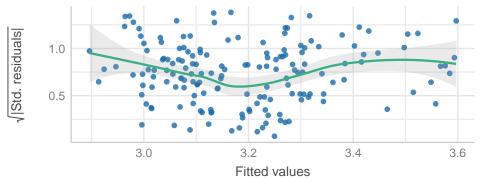
Posterior Predictive Check Model-predicted lines should resemble observed data line 0.08 0.06 Density 0.04 0.02 0.00 20 60 log1p(labs_ast)

Observed data — Model-predicted data

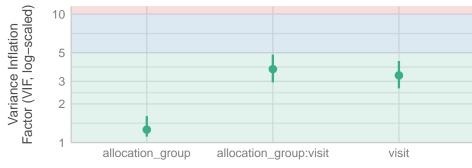
Homogeneity of Variance

Reference line should be flat and horizontal



Collinearity

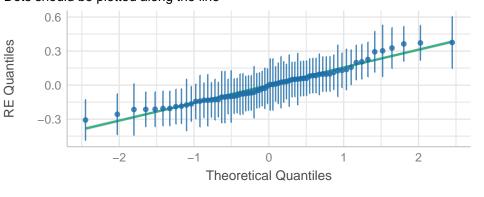
High collinearity (VIF) may inflate parameter uncertainty



Low (< 5)

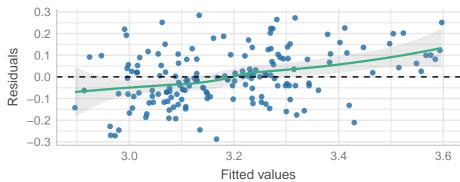
Normality of Random Effects (record_id)

Dots should be plotted along the line



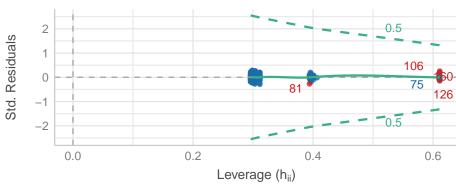
Linearity

Reference line should be flat and horizontal



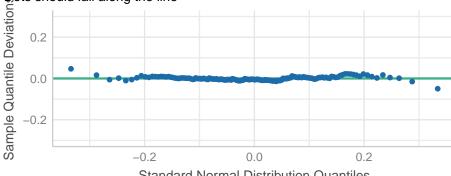
Influential Observations

Points should be inside the contour lines



Normality of Residuals

Dots should fall along the line



Standard Normal Distribution Quantiles