Posterior Predictive Check
Model−predicted lines should resemble observed data line
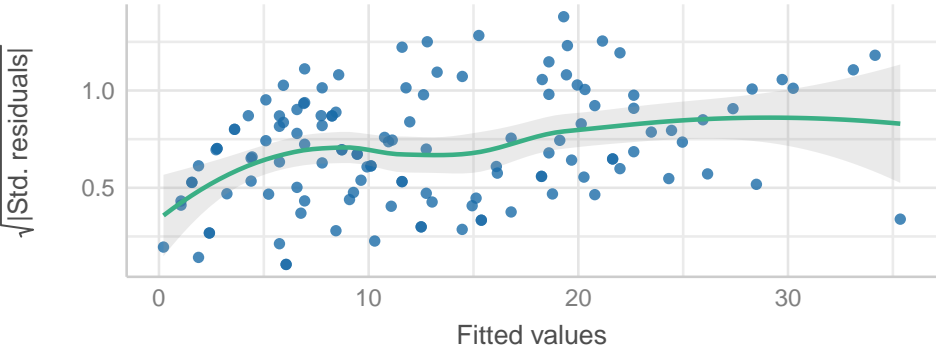
Density / dass_score_stress

— Observed data   — Model−predicted data
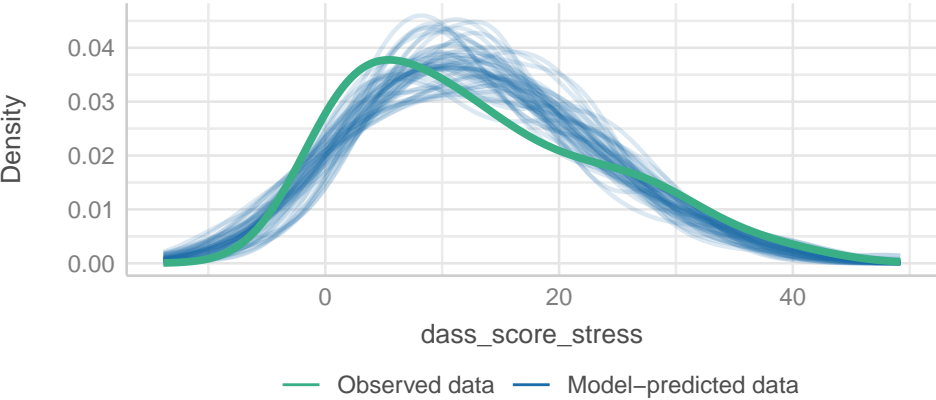
Linearity
Reference line should be flat and horizontal

Residuals / Fitted values
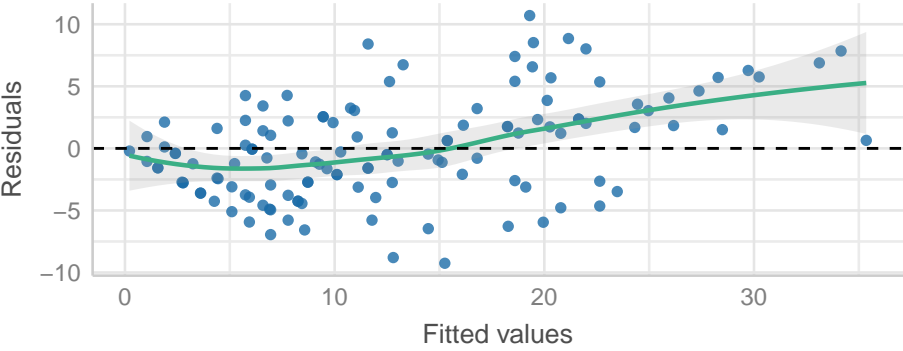
Homogeneity of Variance
Reference line should be flat and horizontal

$\sqrt{|\text{Std. residuals}|}$ / Fitted values

Influential Observations
Points should be inside the contour lines

Std. Residuals / Leverage (h_{ii})

0.5
41 67
14 57   0.5   5 51
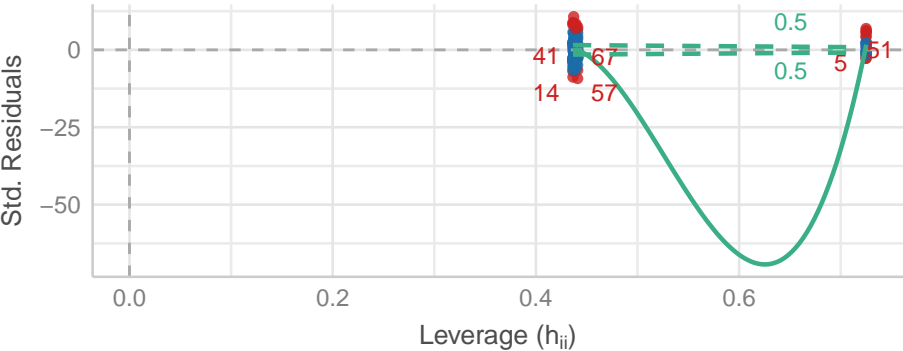
Collinearity
High collinearity (VIF) may inflate parameter uncertainty

Variance Inflation Factor (VIF, log−scaled)

allocation_group   allocation_group:visit   visit

● Low (< 5)

Normality of Residuals
Dots should fall along the line

Sample Quantile Deviations / Standard Normal Distribution Quantiles
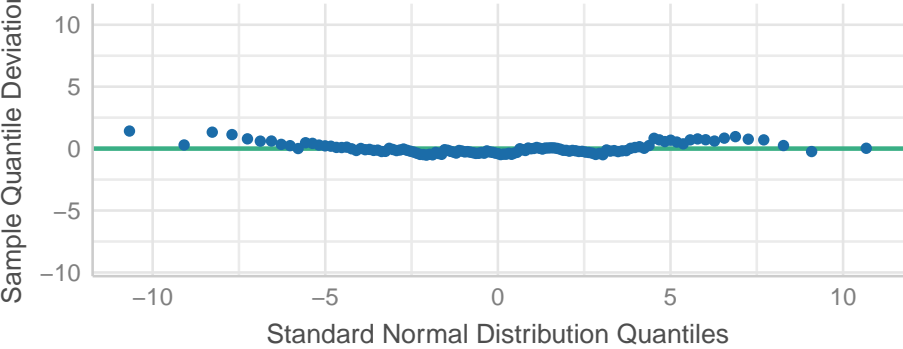
Normality of Random Effects (record_id)
Dots should be plotted along the line

RE Quantiles / Theoretical Quantiles