Posterior Predictive Check Linearity Model-predicted lines should resemble observed data line Reference line should be flat and horizontal 0.015 Residuals Density 0.010 0.005 -20 0.000 -3050 100 150 200 250 300 labs_cholesterol Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 1.6 √|Std. residuals Residuals 1.2 0.8 Std. 0.4 125 150 175 200 225 250 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty Sample Quantile Deviation Variance Inflation Factor (VIF, log-scaled) 10 allocation_group:visit allocation_group visit Low (< 5) Normality of Random Effects (record_id) Dots should be plotted along the line 40 RE Quantiles 0

Theoretical Quantiles

-40

-2

Influential Observations

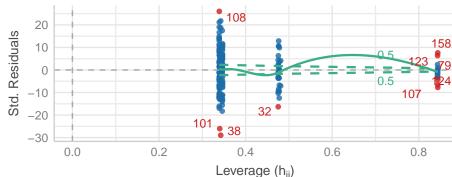
20

10

125

Points should be inside the contour lines

150



175

200

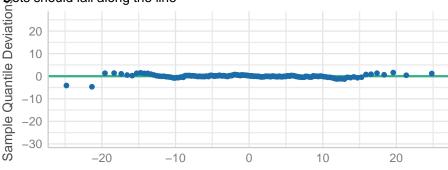
Fitted values

225

250

Normality of Residuals

Dots should fall along the line



Standard Normal Distribution Quantiles