**Posterior Predictive Check**
Model−predicted lines should resemble observed data line
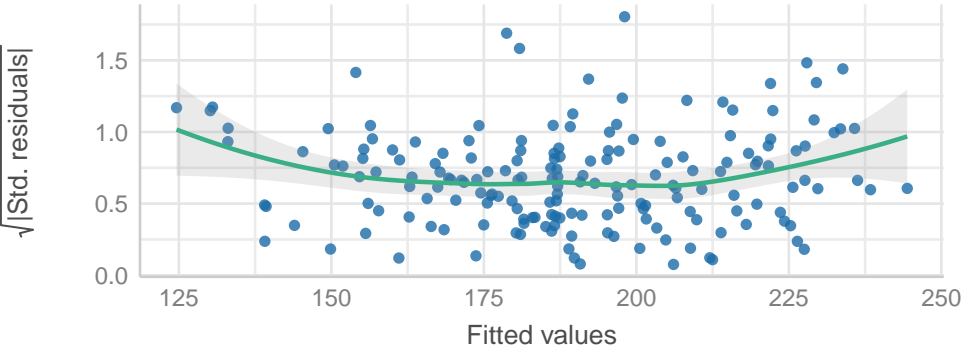
— Observed data   — Model−predicted data
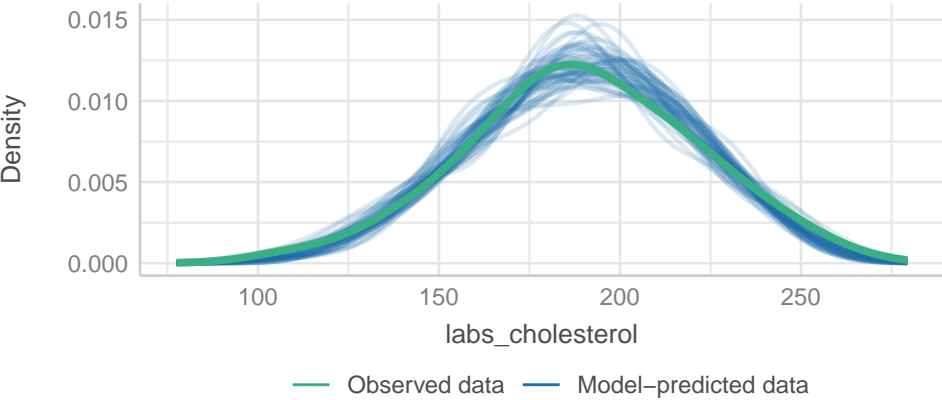
**Linearity**
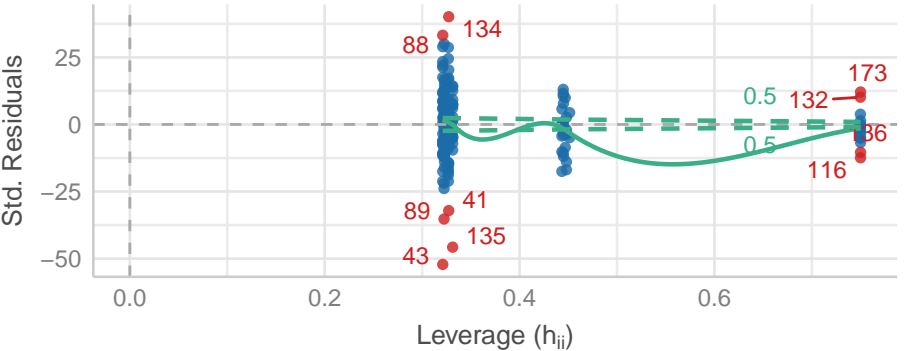Reference line should be flat and horizontal
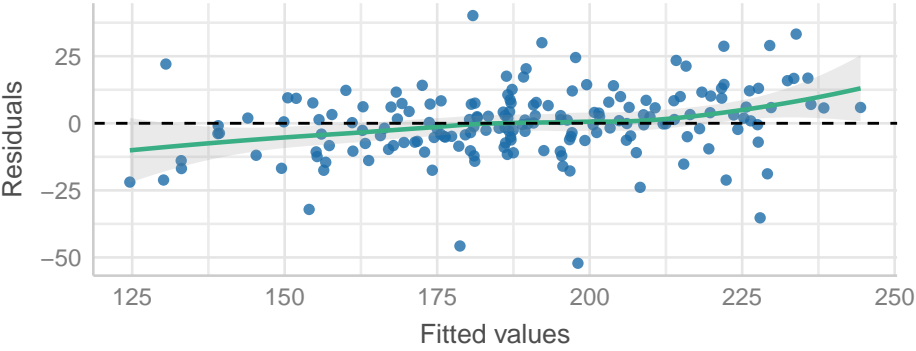
**Homogeneity of Variance**
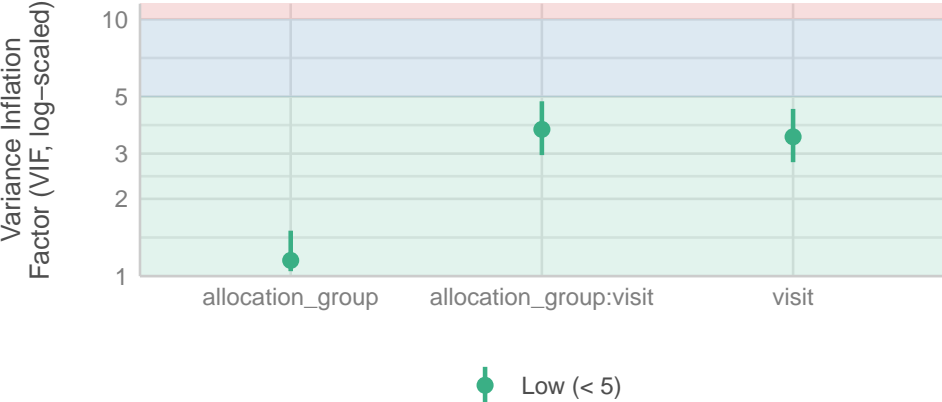Reference line should be flat and horizontal

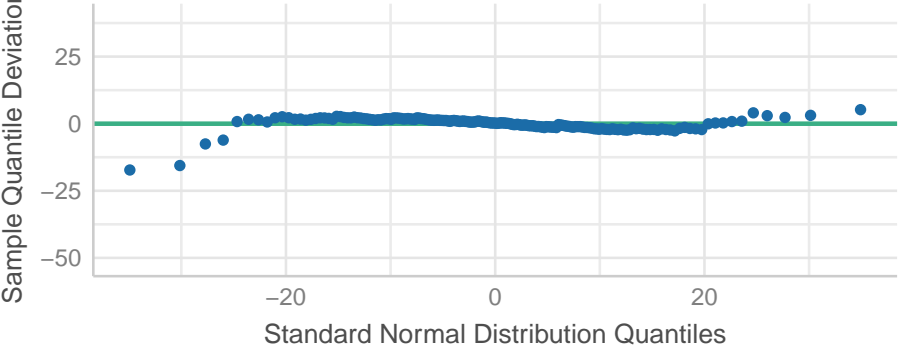**Influential Observations**
Points should be inside the contour lines

**Collinearity**
High collinearity (VIF) may inflate parameter uncertainty

● Low (< 5)

**Normality of Residuals**
Dots should fall along the line

**Normality of Random Effects (record_id)**
Dots should be plotted along the line