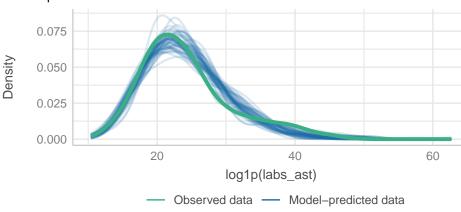
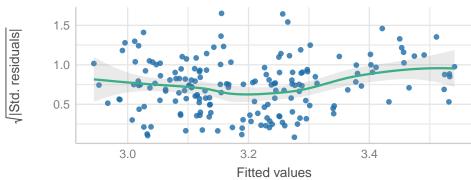
## Posterior Predictive Check

Model-predicted lines should resemble observed data line



## Homogeneity of Variance

Reference line should be flat and horizontal



## Collinearity

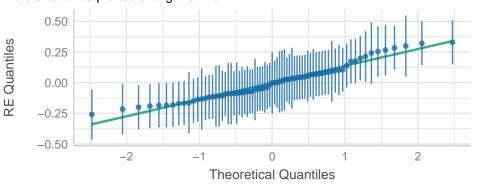
High collinearity (VIF) may inflate parameter uncertainty



Low (< 5)

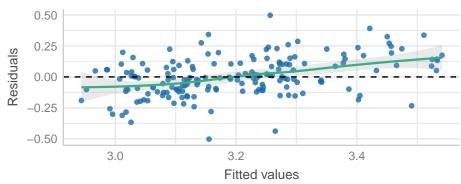
# Normality of Random Effects (record\_id)

Dots should be plotted along the line



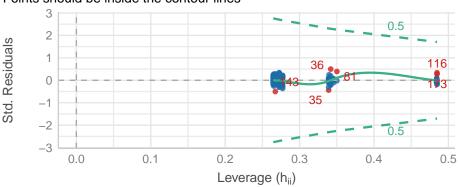
## Linearity

Reference line should be flat and horizontal



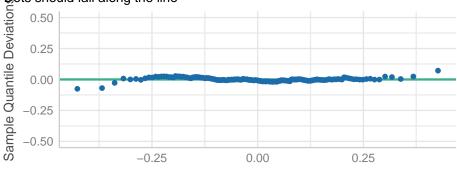
#### Influential Observations

Points should be inside the contour lines



#### Normality of Residuals

Dots should fall along the line



Standard Normal Distribution Quantiles