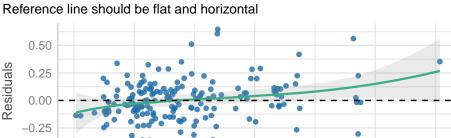
### Posterior Predictive Check Model-predicted lines should resemble observed data line 0.03 Density 0.02 0.01 0.00 100 200 300 400 log1p(labs\_ggt) Observed data — Model-predicted data

# Residuals

Linearity

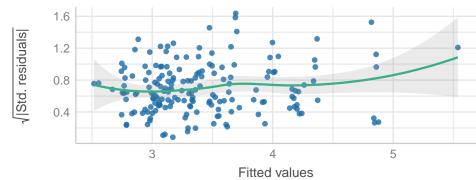
-0.50



Fitted values

## Homogeneity of Variance

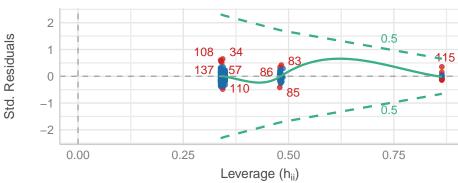
Reference line should be flat and horizontal



Influential Observations

Points should be inside the contour lines

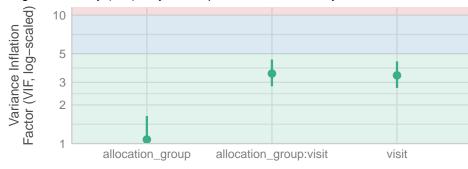
3



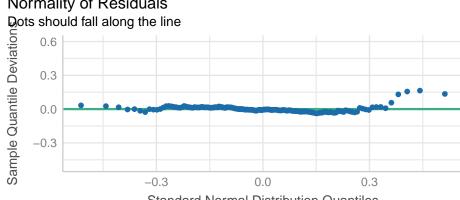
## Collinearity

RE Quantiles

High collinearity (VIF) may inflate parameter uncertainty



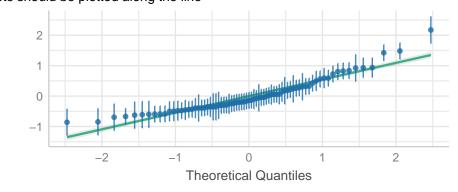
#### Normality of Residuals



Low (< 5)

# Normality of Random Effects (record\_id)

Dots should be plotted along the line



Standard Normal Distribution Quantiles