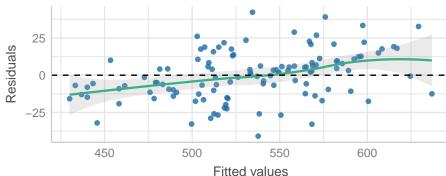
### Posterior Predictive Check Model-predicted lines should resemble observed data line 0.0075 Density 0.0050 0.0025 0.0000 300 400 500 600 700

# Reference line should be flat and horizontal 25

Linearity

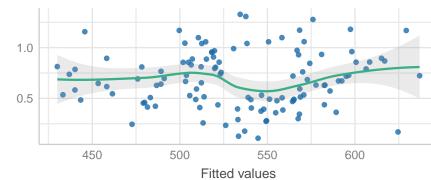


Observed data — Model-predicted data

resistance

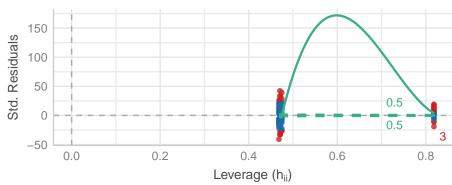
## Homogeneity of Variance

Reference line should be flat and horizontal



#### Influential Observations

Points should be inside the contour lines

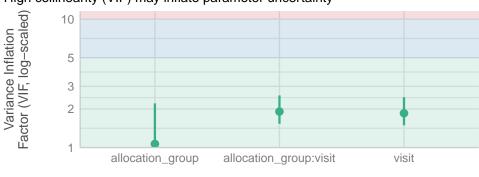


## Collinearity

√|Std. residuals

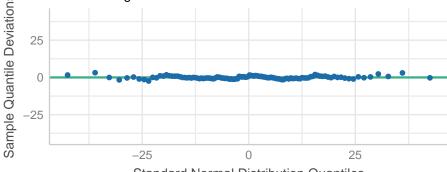
RE Quantiles

High collinearity (VIF) may inflate parameter uncertainty



## Normality of Residuals

Dots should fall along the line



Standard Normal Distribution Quantiles

## Low (< 5) Normality of Random Effects (record\_id)

Dots should be plotted along the line

