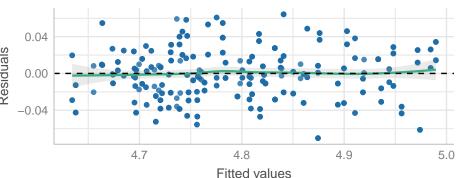
## Posterior Predictive Check Model-predicted lines should resemble observed data line 0.05 0.04 Density 0.03 0.02 0.01 0.00 100 125 150 175 log1p(systolic) Observed data — Model-predicted data

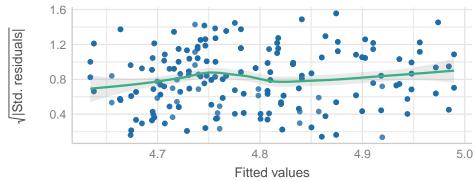
# Residuals

# Linearity Reference line should be flat and horizontal



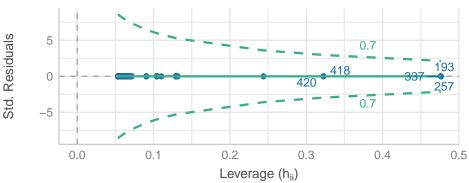
# Homogeneity of Variance

# Reference line should be flat and horizontal



### Influential Observations

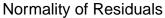
#### Points should be inside the contour lines

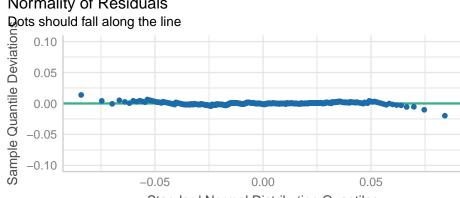


# Collinearity

# High collinearity (VIF) may inflate parameter uncertainty



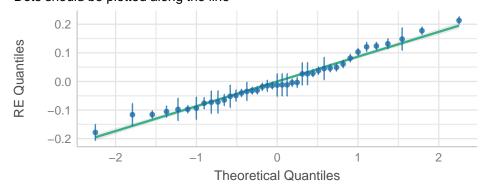




Low (< 5)

# Normality of Random Effects (record\_id)

# Dots should be plotted along the line



Standard Normal Distribution Quantiles