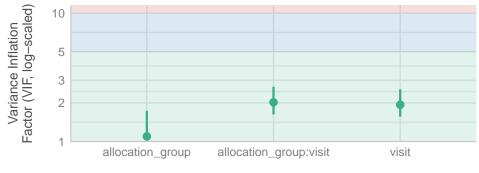
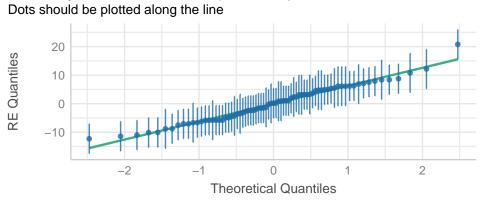
Posterior Predictive Check Model-predicted lines should resemble observed data line 0.04 Density 0.02 0.00 -1010 20 30 40 ecap score Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal √|Std. residuals 1.2 0.8 0.4 30 40 10 20

Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty



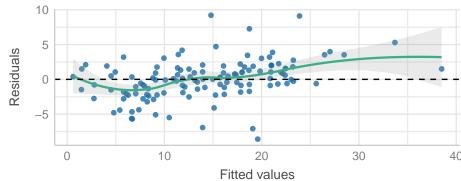


Normality of Random Effects (record_id)



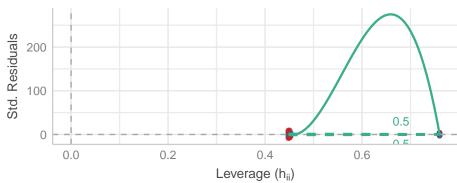
Linearity

Reference line should be flat and horizontal

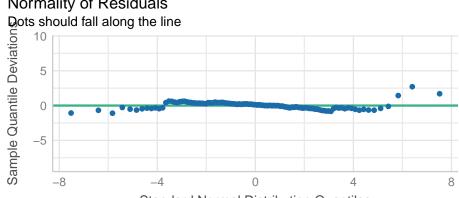


Influential Observations

Points should be inside the contour lines



Normality of Residuals



Standard Normal Distribution Quantiles