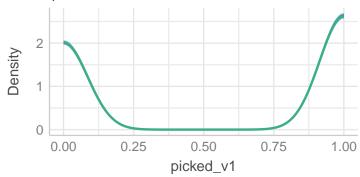
reg_rate * reg_dist + variation + baseline_log_odds_jitter

Posterior Predictive Check

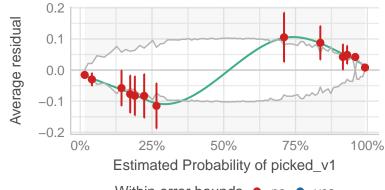
Model-predicted lines should resemble observed data line



el-predicted data — Observed data — Observed data — N

Binned Residuals

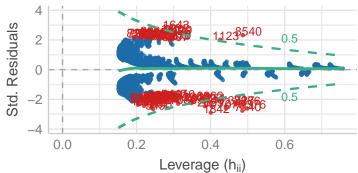
Points should be within error bounds



Within error bounds → no → yes

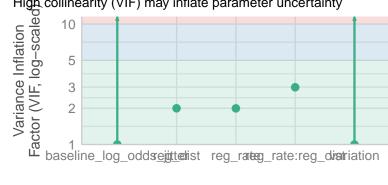
Influential Observations

Points should be inside the contour lines



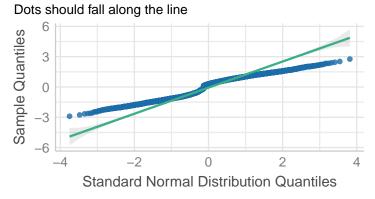
Collinearity

High collinearity (VIF) may inflate parameter uncertainty



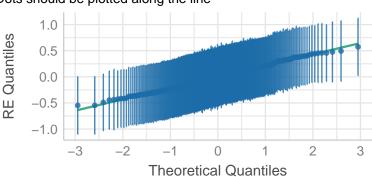
Low (< 5)

Normality of Residuals



Normality of Random Effects (base)

Dots should be plotted along the line



Normality of Random Effects (part_id)

Dots should be plotted along the line

