Posterior Predictive Check Model-predicted lines should resemble observed data line 0.075 Residuals Density 0.050 0.025 0.000 100 150 log1p(labs_insulin) Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal 2.0 √|Std. residuals| Residuals 1.5 1.0 Std. 0.5 0.0 3.5 2.0 2.5 3.0 4.0 4.5 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty Sample Quantile Deviation Variance Inflation Factor (VIF, log-scaled) 10 allocation_group:visit allocation_group visit Low (< 5) Normality of Random Effects (record_id) Dots should be plotted along the line 2 RE Quantiles 0

Theoretical Quantiles

2

-2



