Posterior Predictive Check Model-predicted lines should resemble observed data line 0.04 0.03 Density 0.02 0.01 0.00 30 60 90 log1p(labs_hdl) Observed data — Model-predicted data Homogeneity of Variance Reference line should be flat and horizontal √|Std. residuals| 1.0 0.5 0.0 3.50 4.50 3.75 4.00 4.25 Fitted values Collinearity High collinearity (VIF) may inflate parameter uncertainty 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

Theoretical Quantiles

2

0.50

0.25

-0.25

-0.50

-2

RE Quantiles

Reference line should be flat and horizontal O.2 O.1 O.0 O.1 O.2 3.50 3.75 4.00 Fitted values



