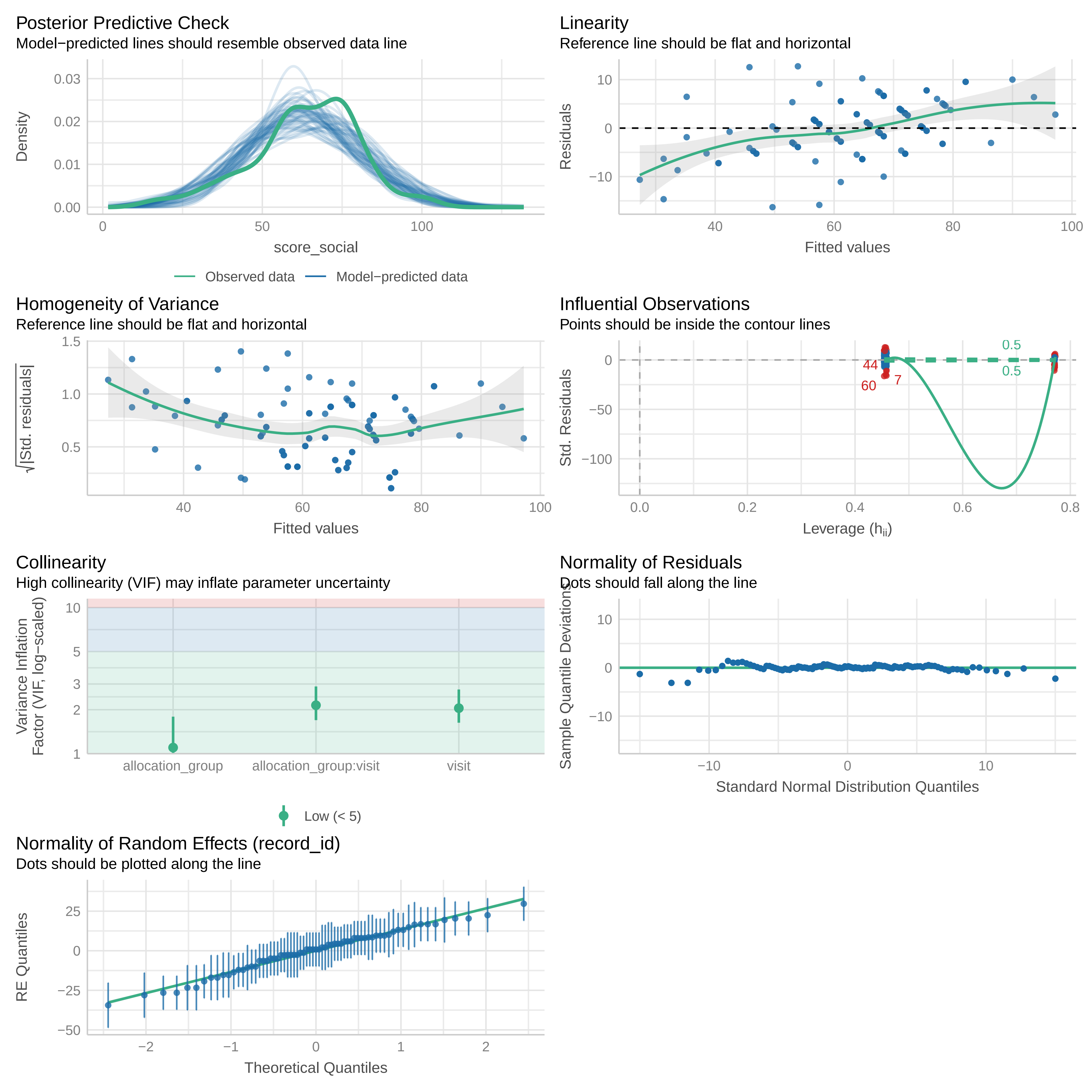

Posterior Predictive Check
Model−predicted lines should resemble observed data line
Density
0.03
0.02
0.01
0.00
0
50
100
score_social
Observed data
Model−predicted data
Linearity
Reference line should be flat and horizontal
Residuals
10
0
−10
40
60
80
100
Fitted values
Homogeneity of Variance
Reference line should be flat and horizontal
√|Std. residuals|
1.5
1.0
0.5
40
60
80
100
Fitted values
Influential Observations
Points should be inside the contour lines
Std. Residuals
0
−50
−100
0.5
0.5
44
60
7
0.0
0.2
0.4
0.6
0.8
Leverage (hii)
Collinearity
High collinearity (VIF) may inflate parameter uncertainty
Variance Inflation Factor (VIF, log−scaled)
10
5
3
2
1
allocation_group
allocation_group:visit
visit
Low (< 5)
Normality of Residuals
Dots should fall along the line
Sample Quantile Deviations
10
0
−10
−10
0
10
Standard Normal Distribution Quantiles
Normality of Random Effects (record_id)
Dots should be plotted along the line
RE Quantiles
25
0
−25
−50
−2
−1
0
1
2
Theoretical Quantiles