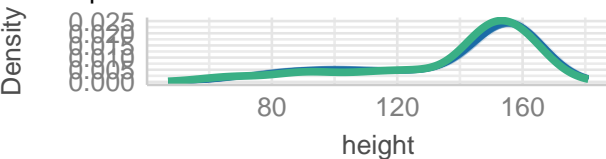


## Posterior Predictive Check

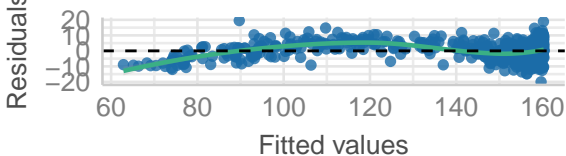
Model-predicted lines should resemble observed data



— Observed data — Model-predicted data

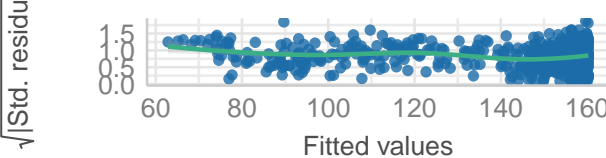
## Linearity

Reference line should be flat and horizontal



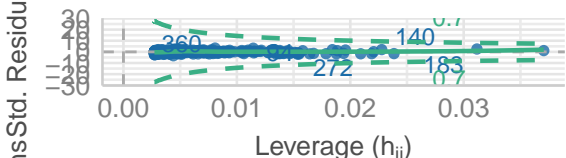
## Homogeneity of Variance

Reference line should be flat and horizontal



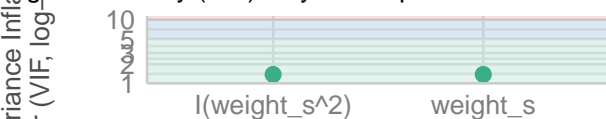
## Influential Observations

Points should be inside the contour lines



## Collinearity

High collinearity (VIF) may inflate parameter uncertainty



● Low ( $< 5$ )

## Normality of Residuals

Points should fall along the line

