Posterior Predictive Check
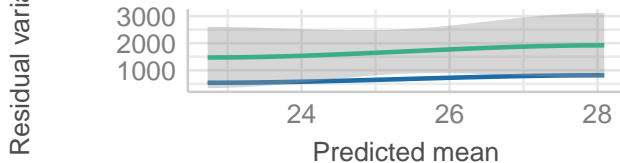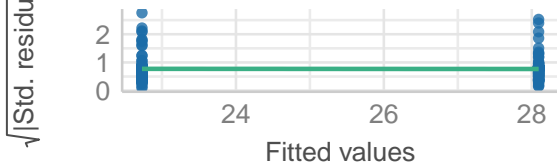Model−predicted intervals should include observed data points

Counts / counts

Misspecified dispersion and zero−inflation
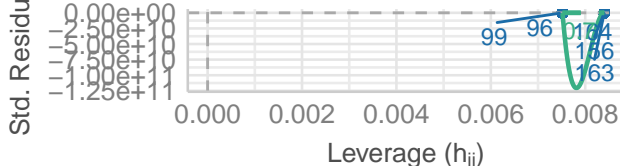Observed residual variance (green) should follow predicted

Residual variance / Predicted mean
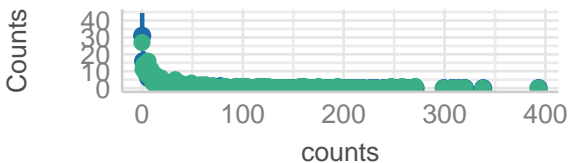
● Observed data ● Model−predicted data

Homogeneity of Variance
Reference line should be flat and horizontal

$\sqrt{|\text{Std. residuals}|}$ / Fitted values

Influential Observations
Points should be inside the contour lines

Std. Residuals / Leverage (h_{ii})

99 96 015 4
136
63

Uniformity of Residuals
Dots should fall along the line

Sample Quantiles / Standard Uniform Distribution Quantiles