

Zero-Inflated Poisson Regression Report

Outcome: absences

Count predictors: G1, G2, studytime, failures, age, health

Inflation predictors: failures, age, health

N: 649

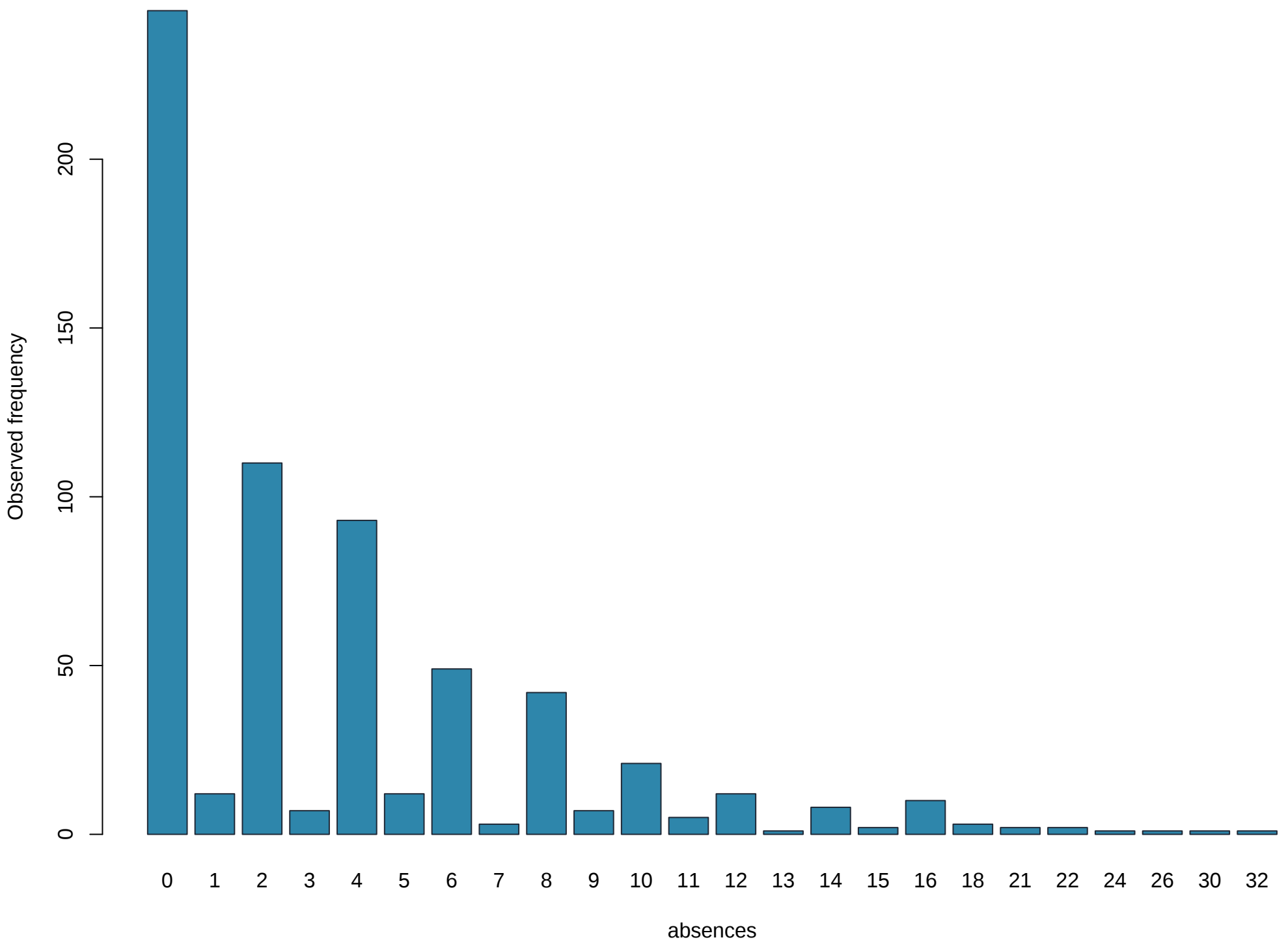
Observed zeros: 244

ZIP AIC: 3388.479824

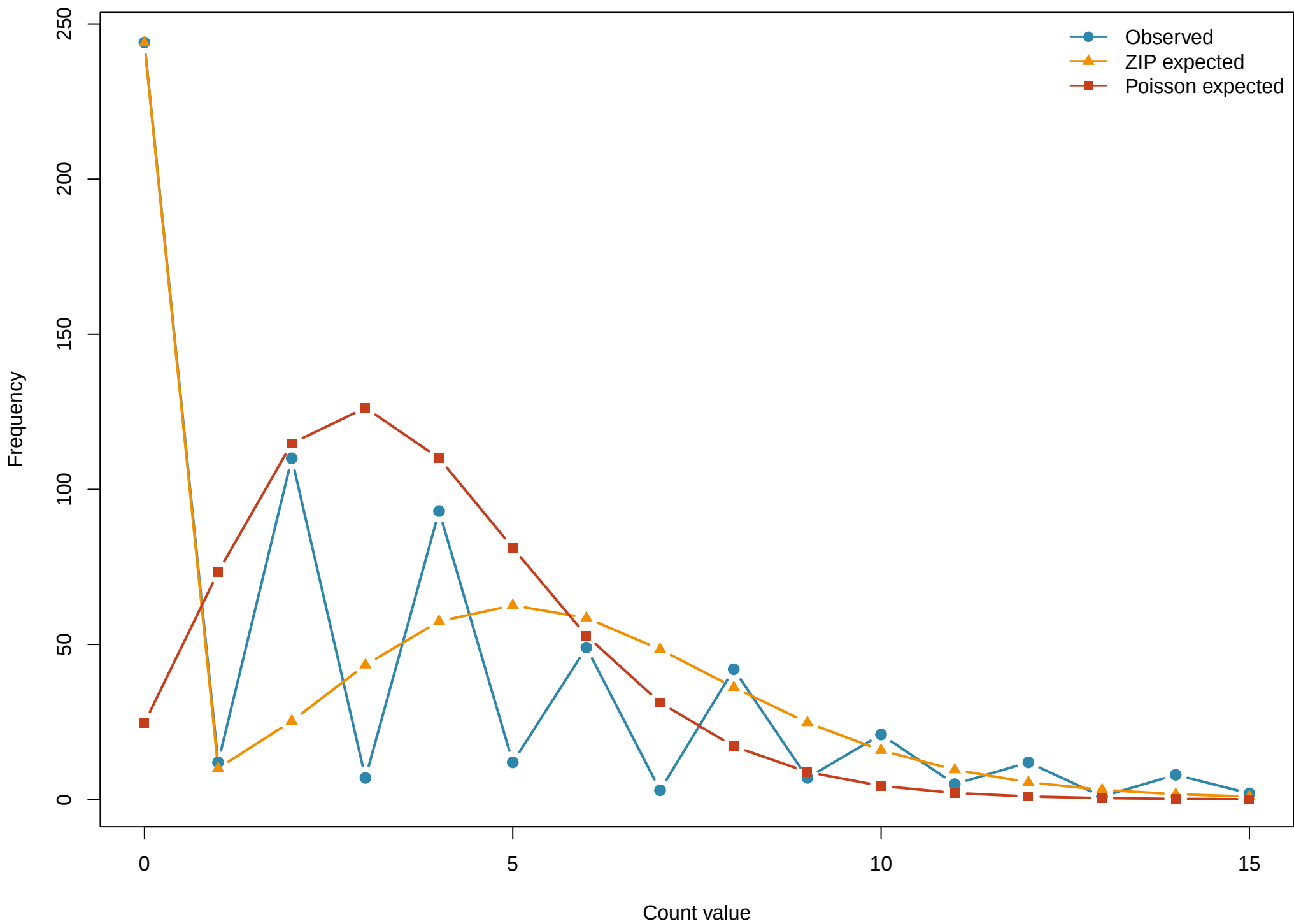
Poisson AIC: 4674.756356

Decision: ZIP is favored by AIC

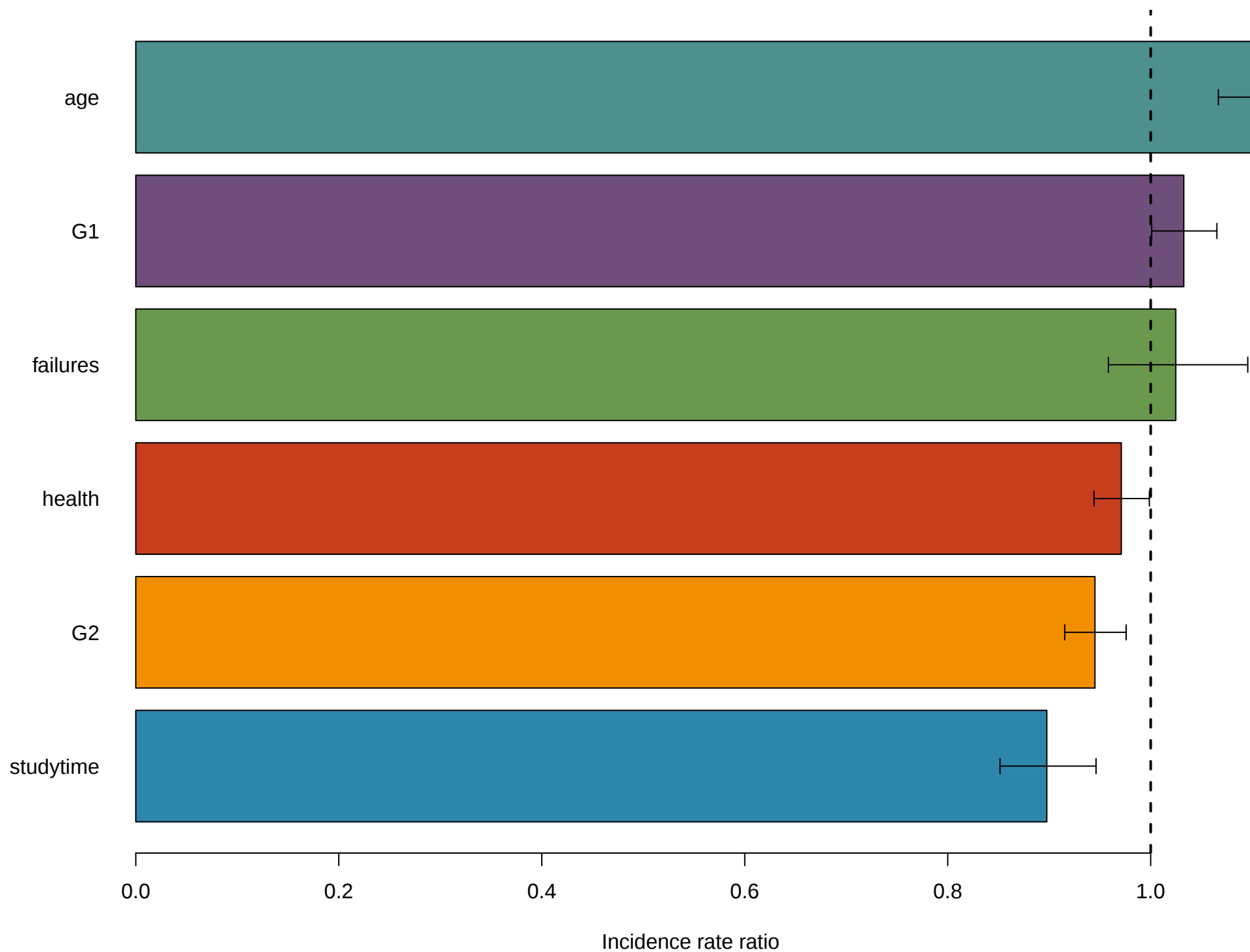
Observed Count Distribution



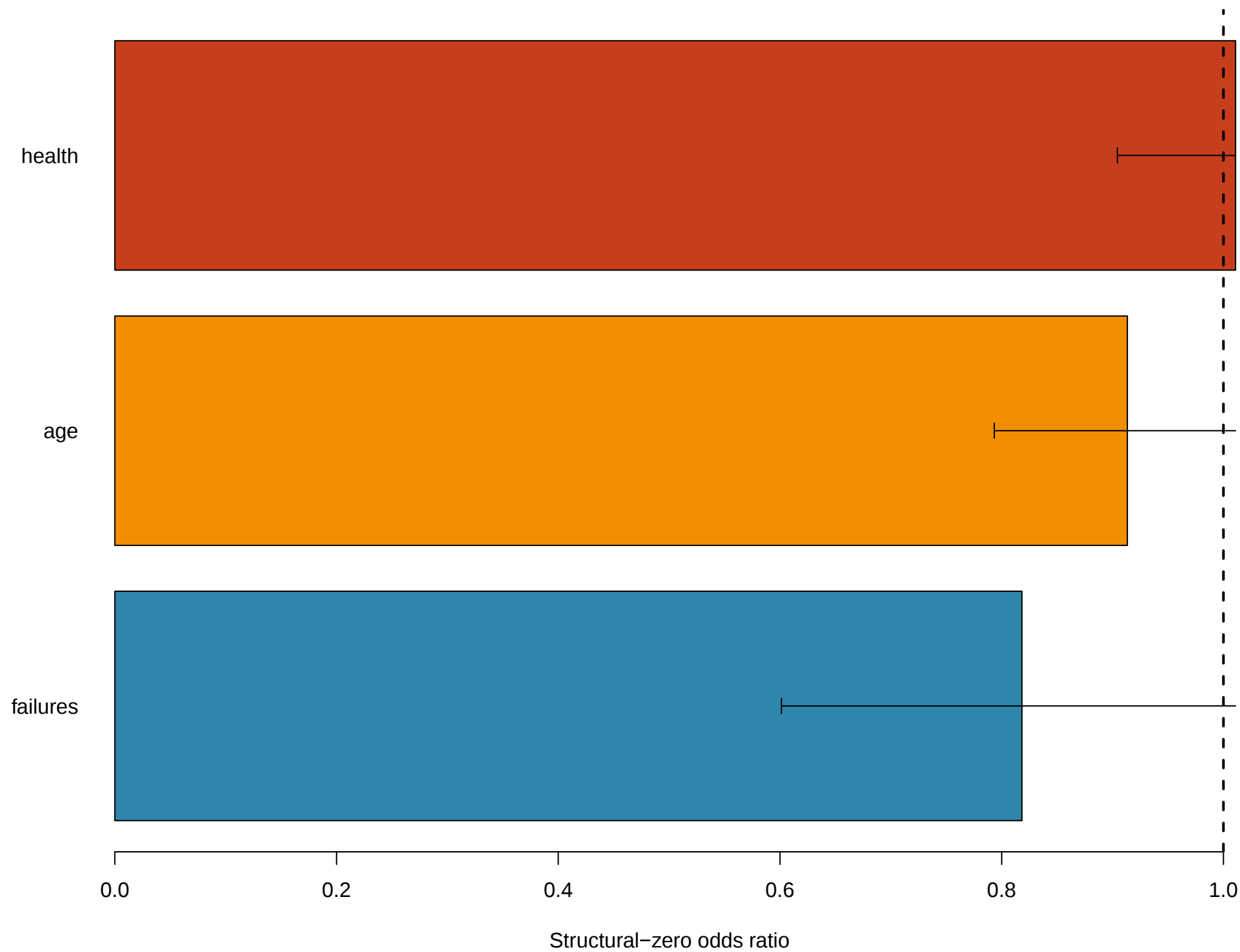
Observed and Expected Count Frequencies



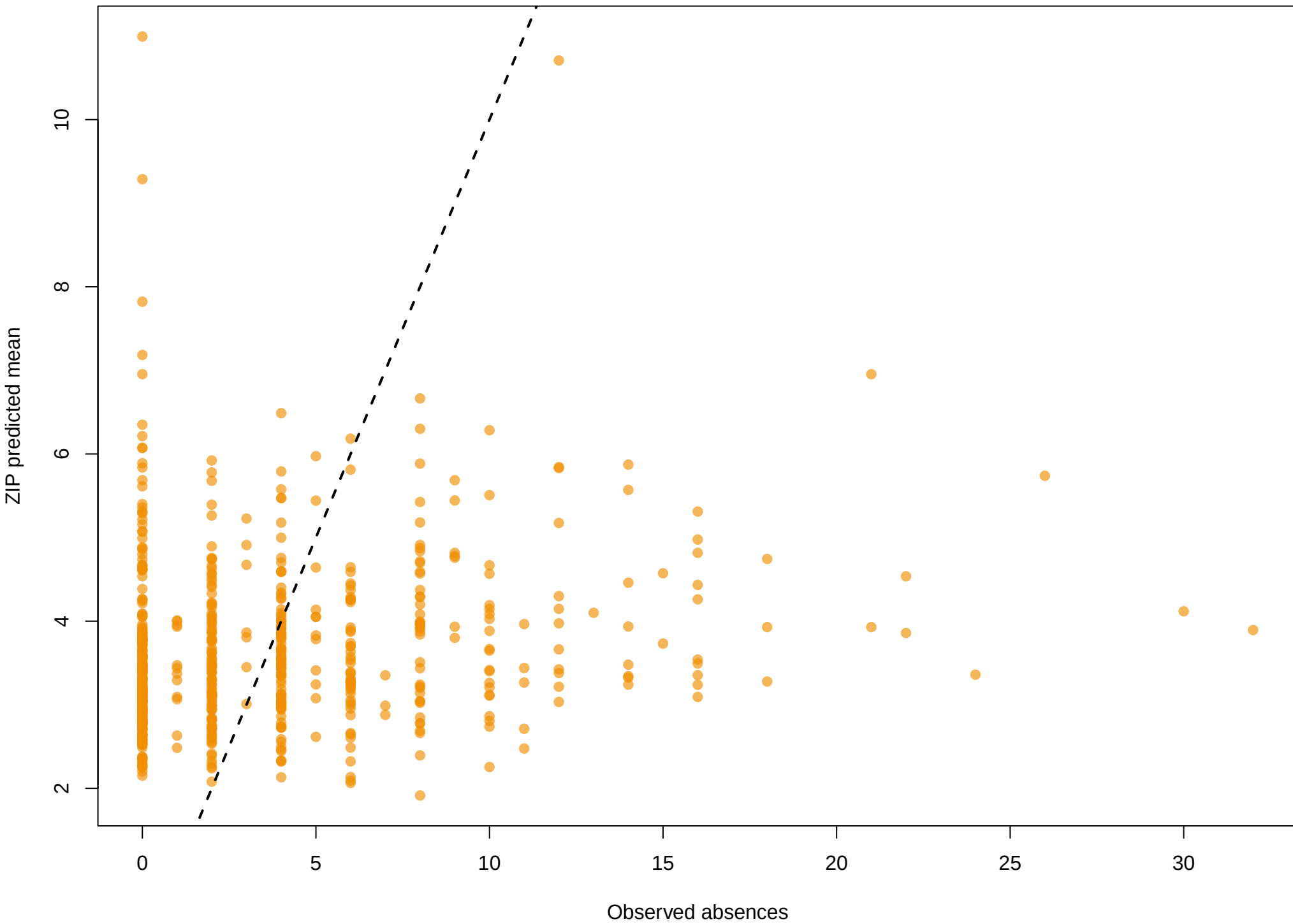
Count-Component Incidence Rate Ratios



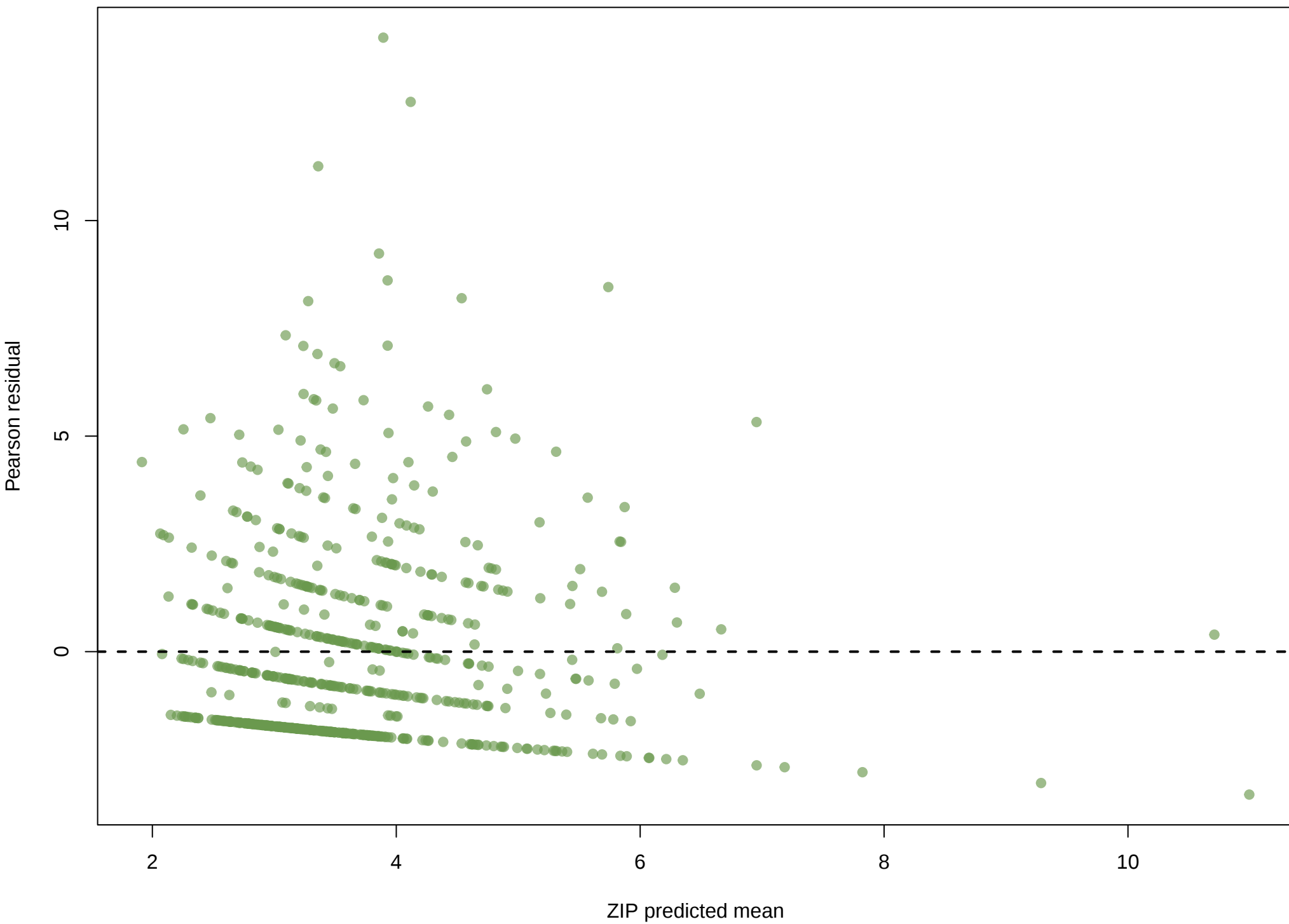
Inflation-Component Odds Ratios



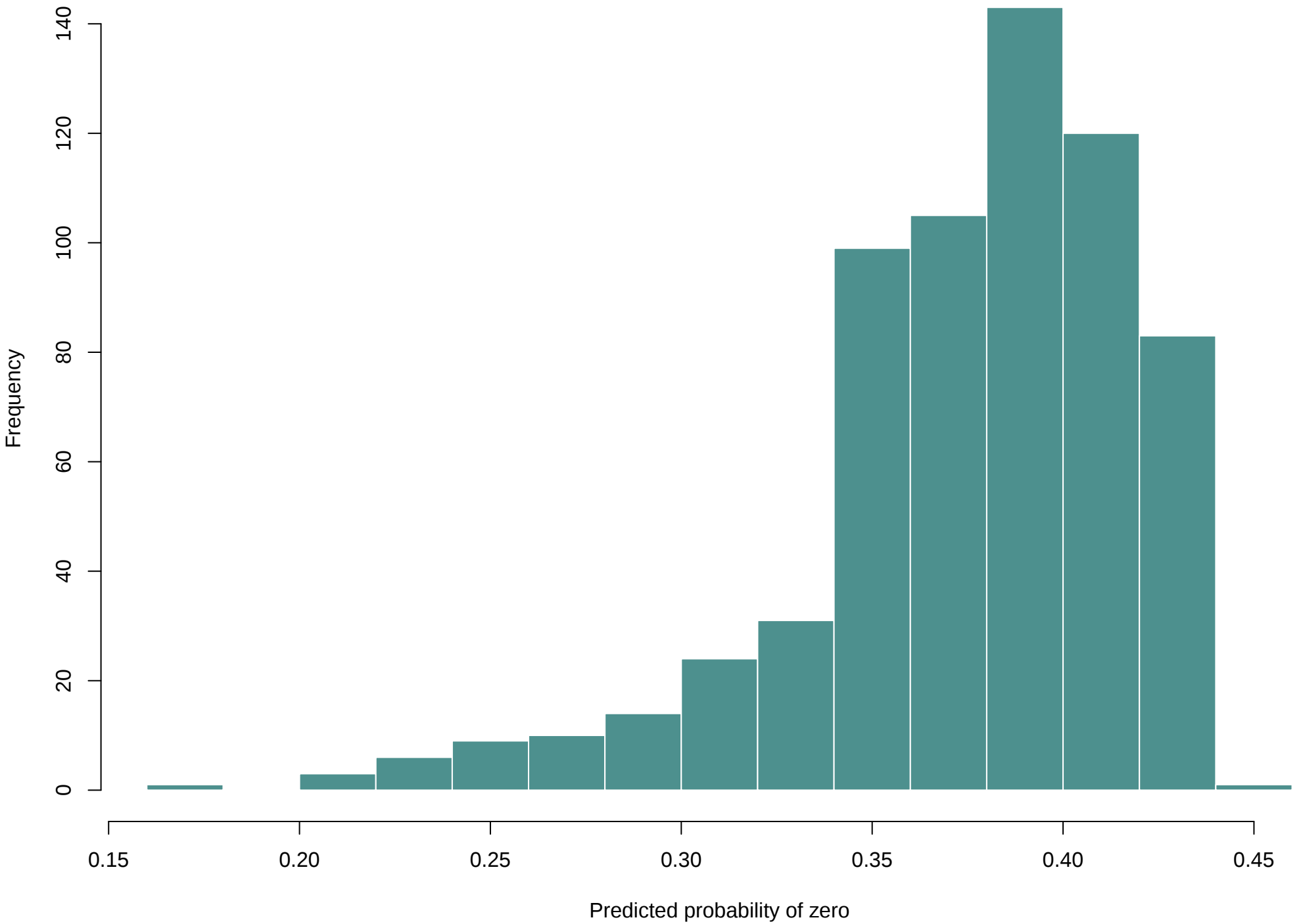
Observed versus ZIP Predicted Counts



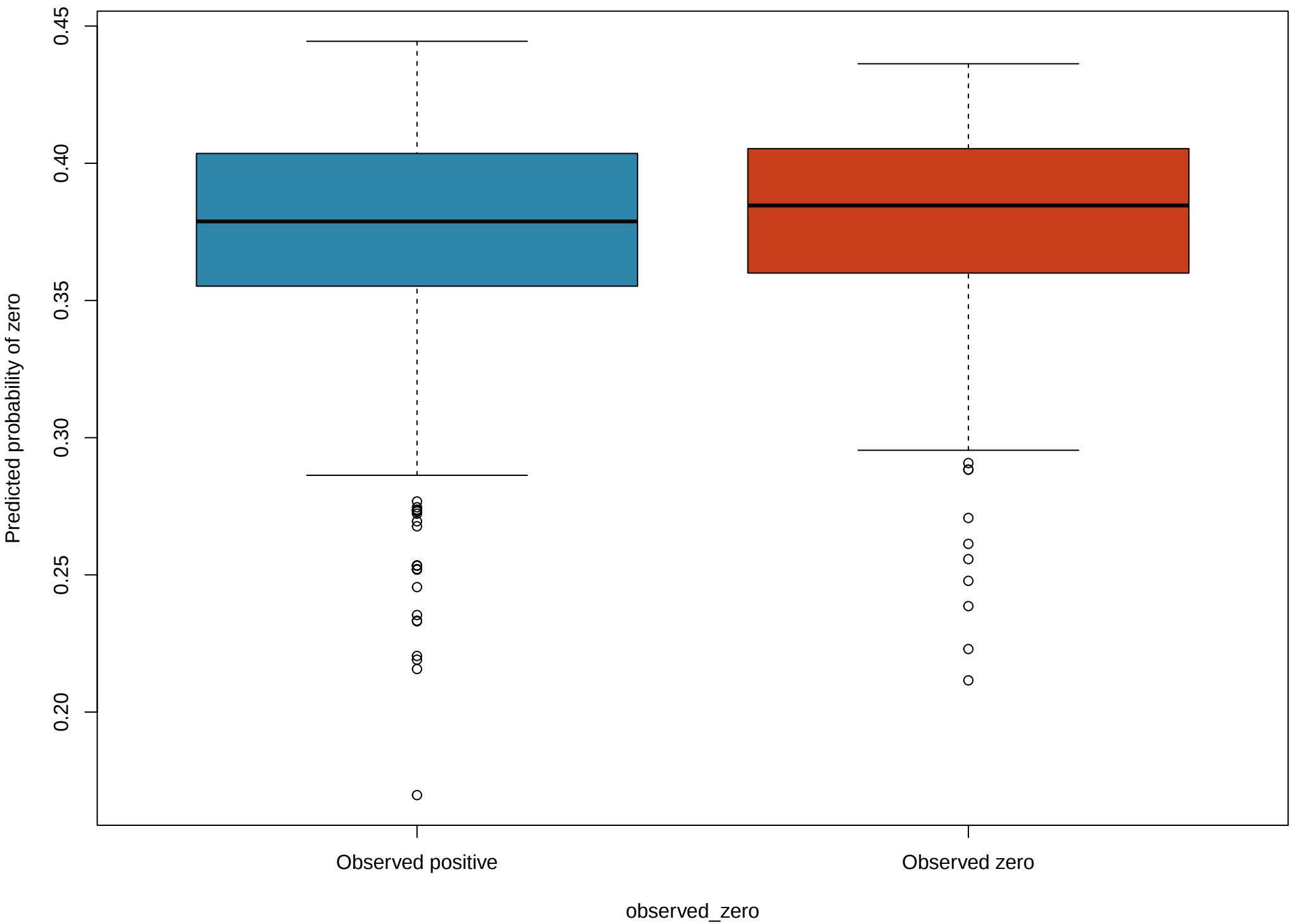
ZIP Pearson Residuals



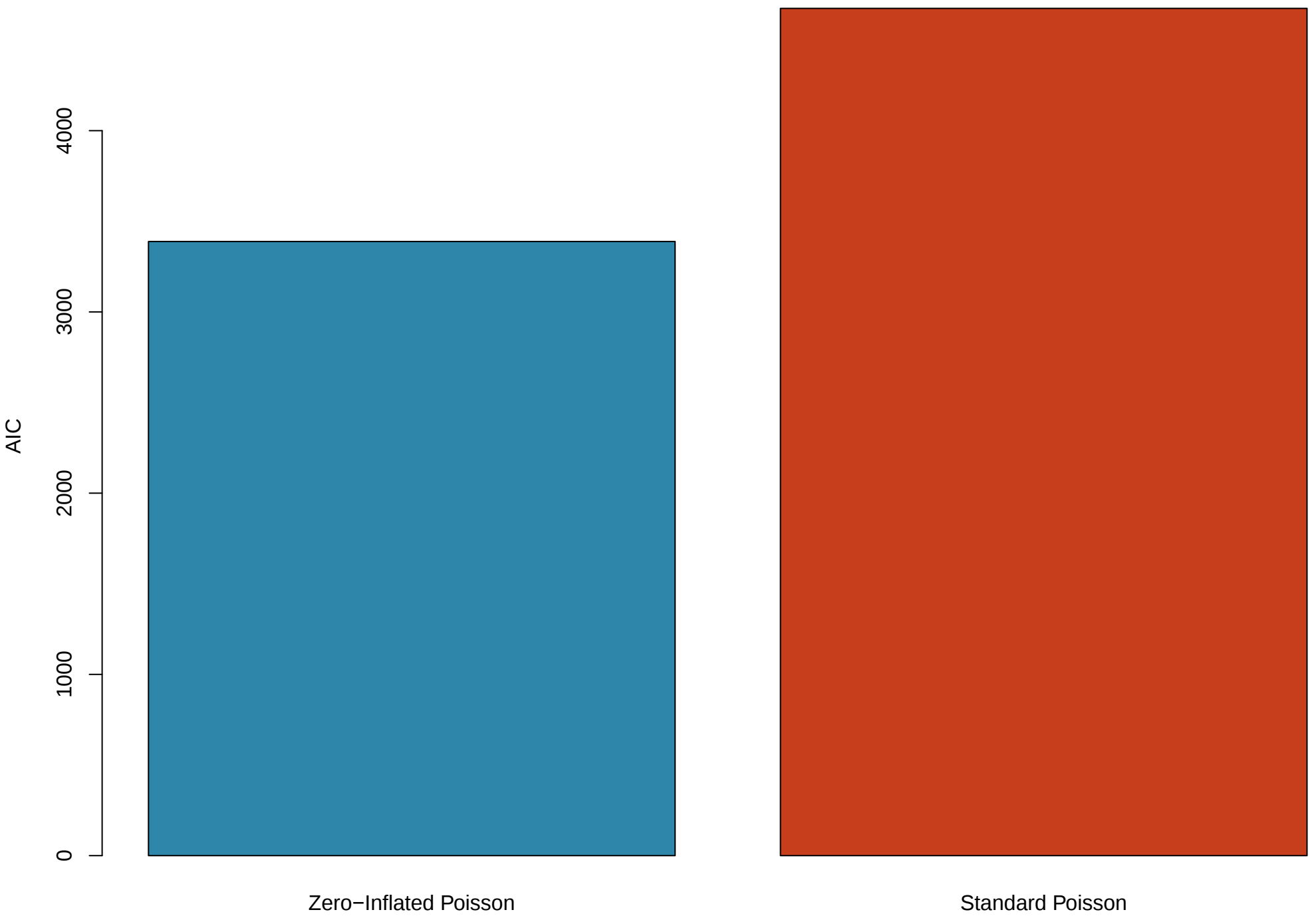
Predicted Zero Probabilities



Zero Probability by Observed Status



ZIP versus Standard Poisson AIC



Zero-Inflated Poisson Regression Summary

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