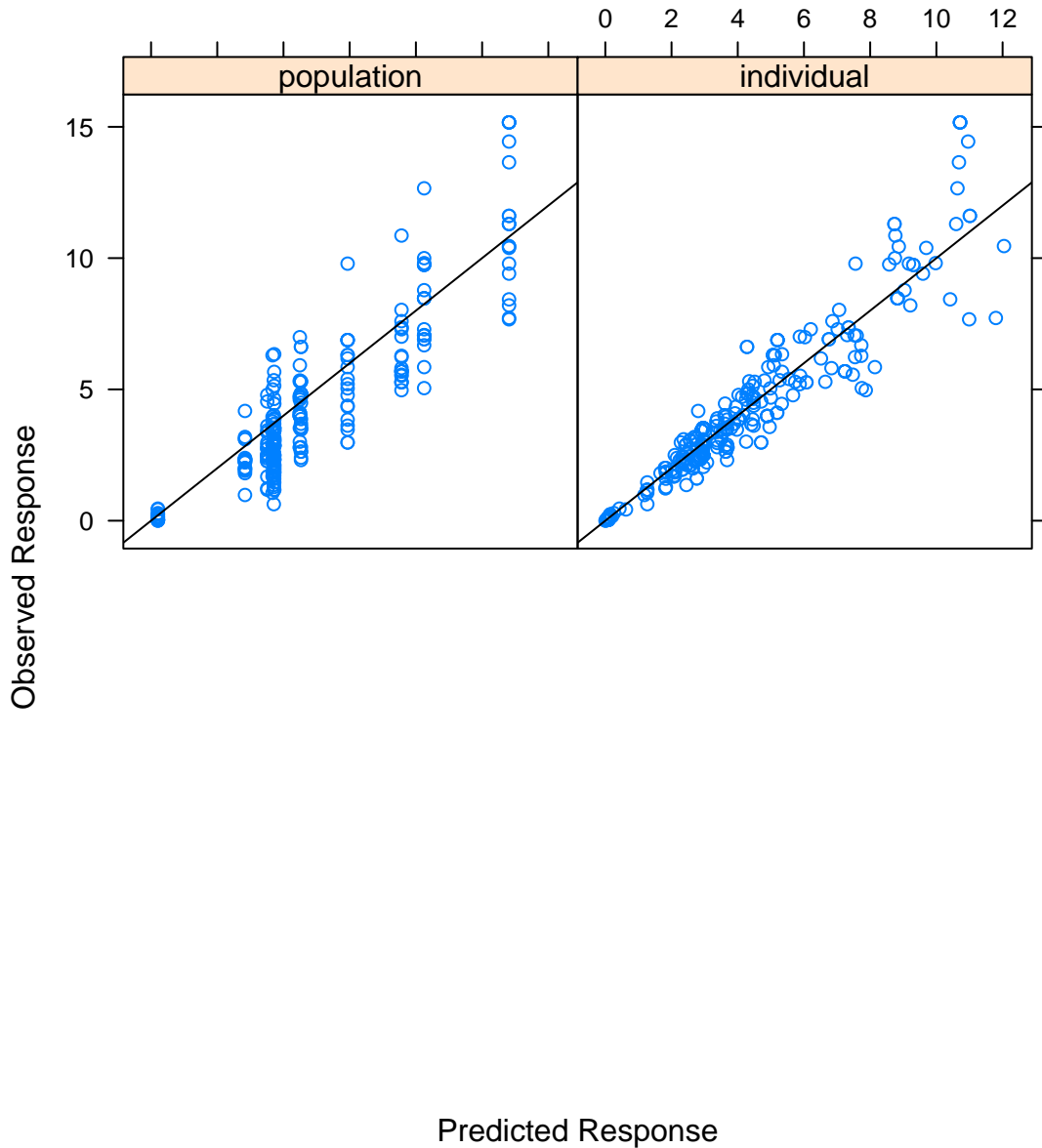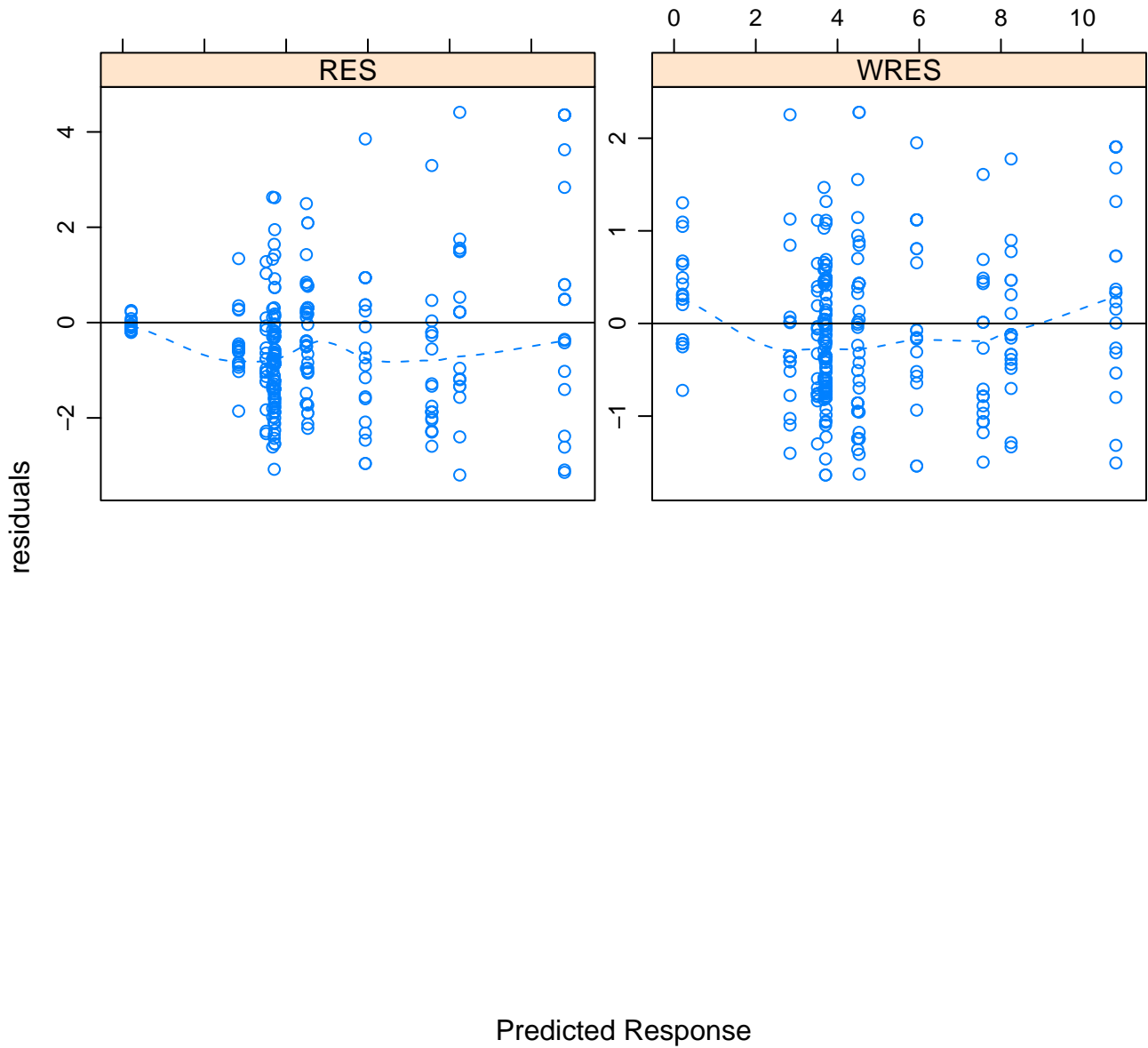# Model 1002
Observed vs. Predicted for female data
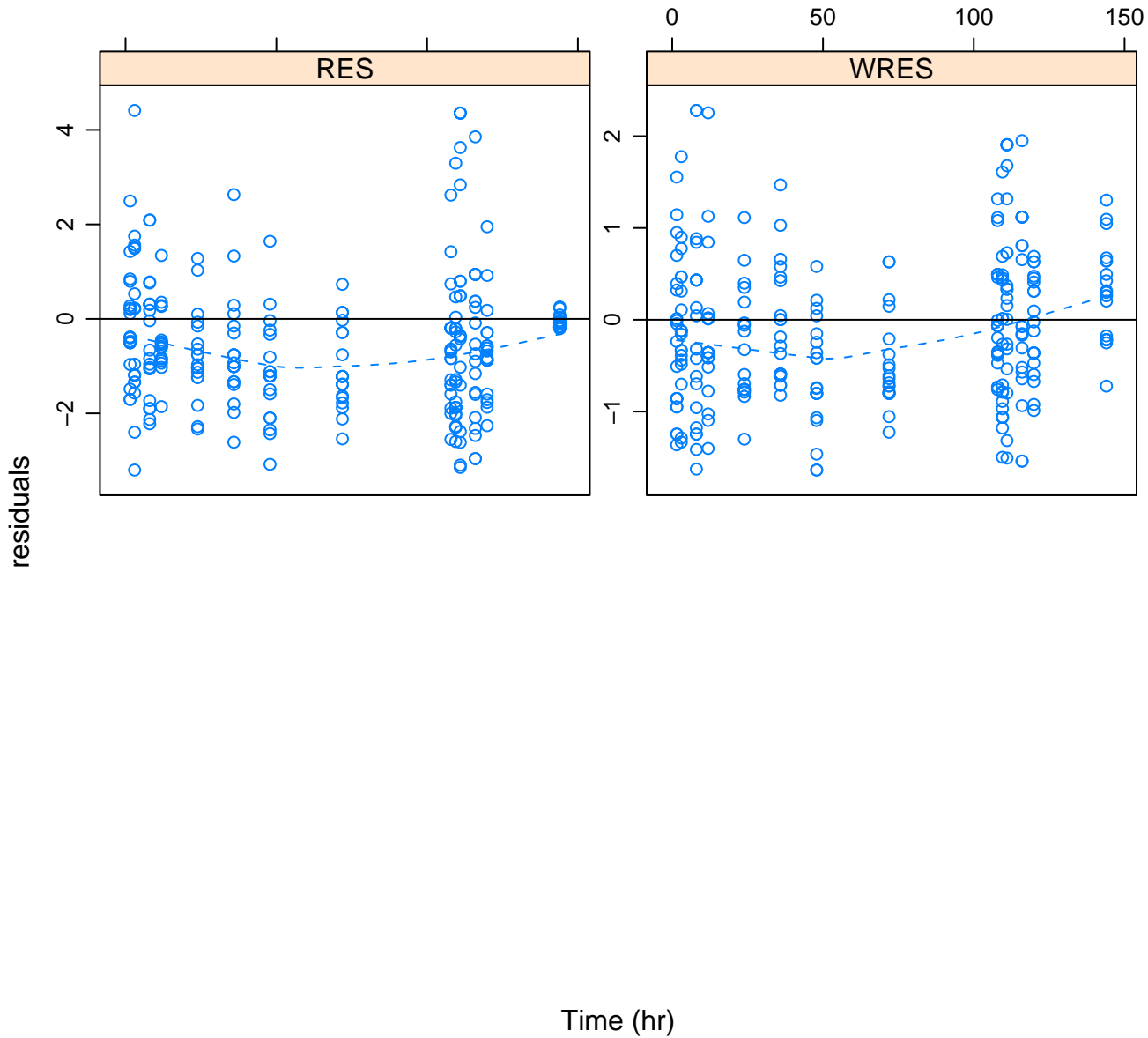
Model 1002
Residuals vs. Predicted for female data

Model 1002
Residuals vs. Time for female data

Model 1002
Normal Q–Q Plot Residuals for female data

Model 1002
Observed vs. Predicted for male data

Model 1002
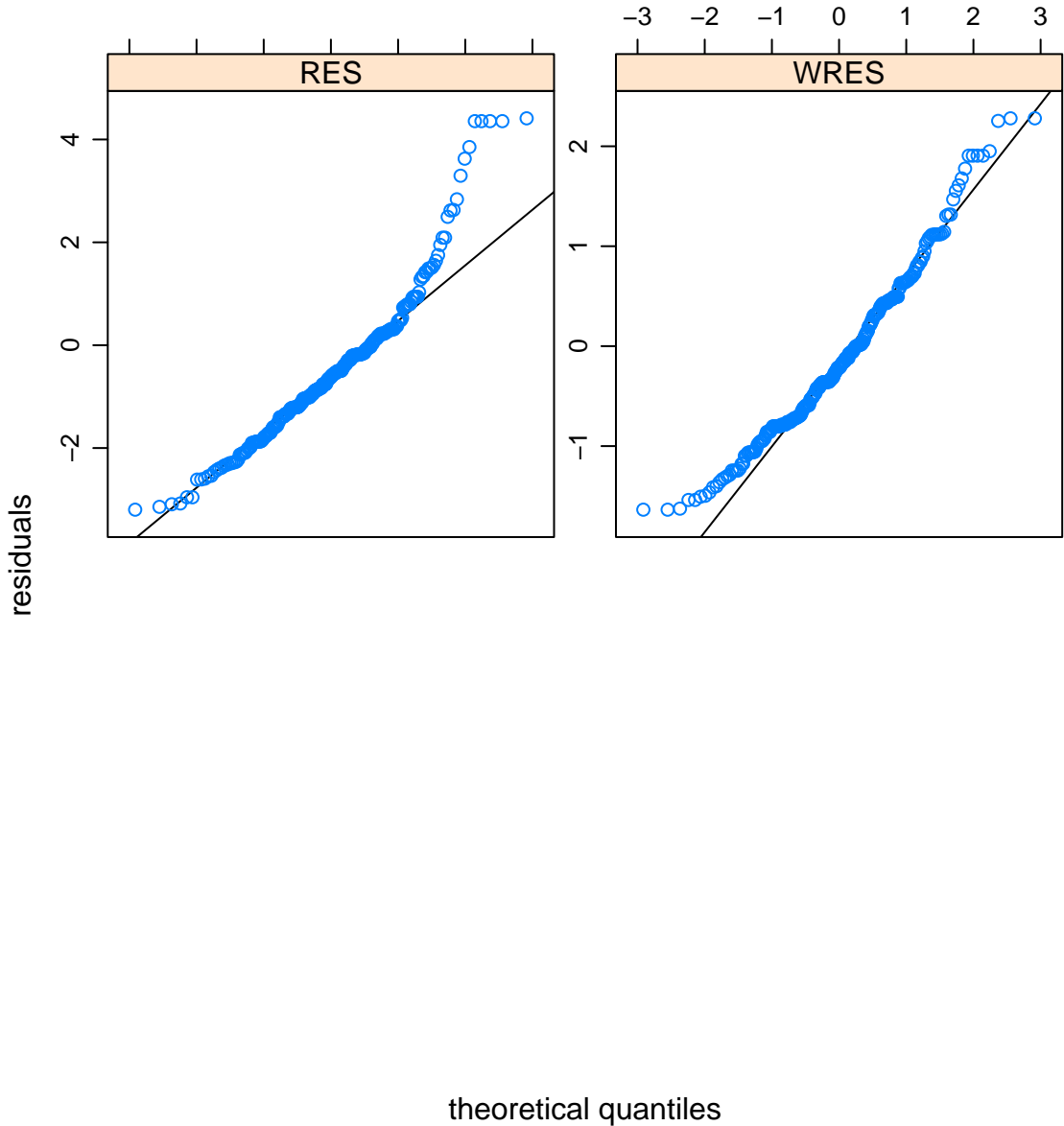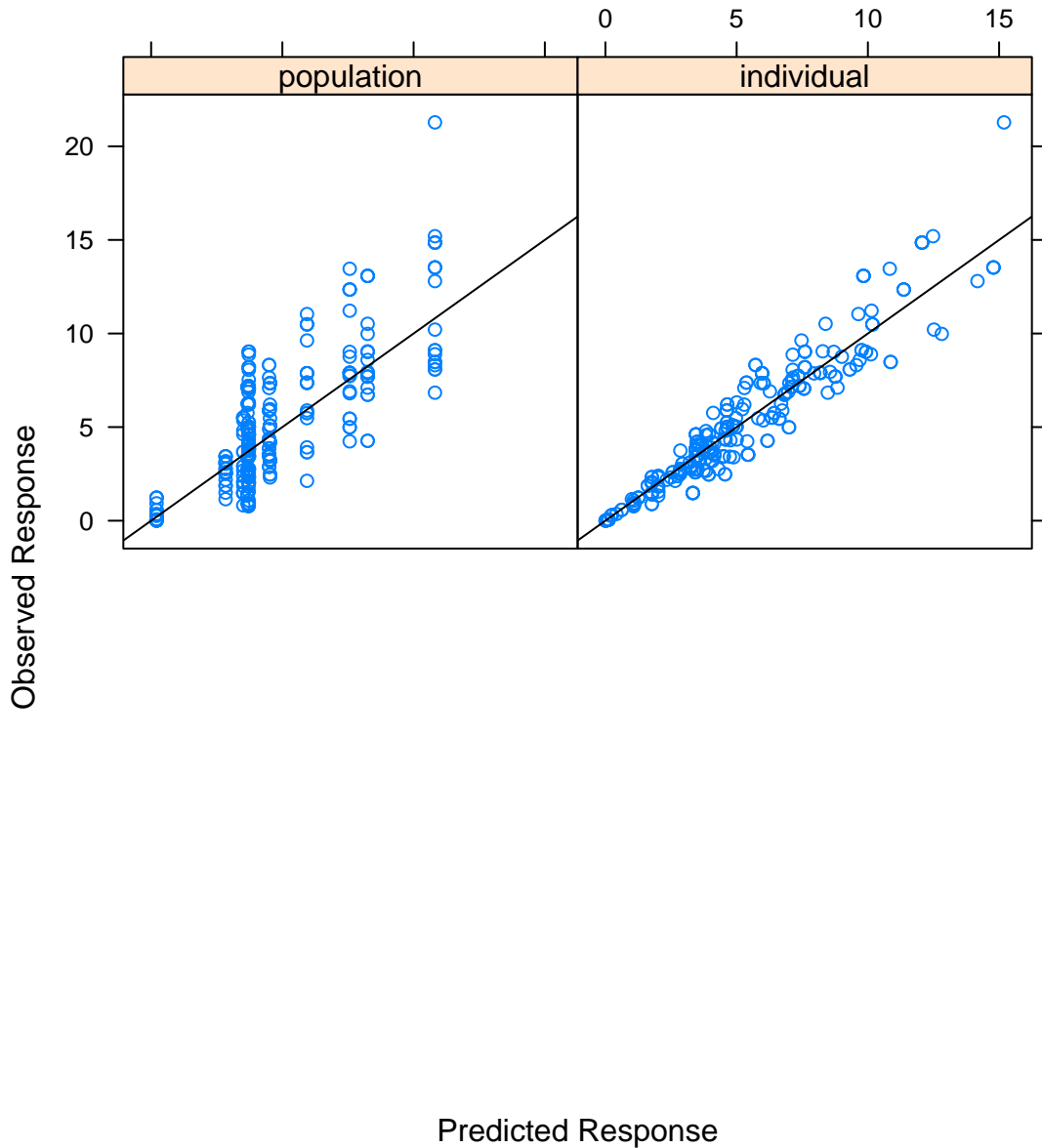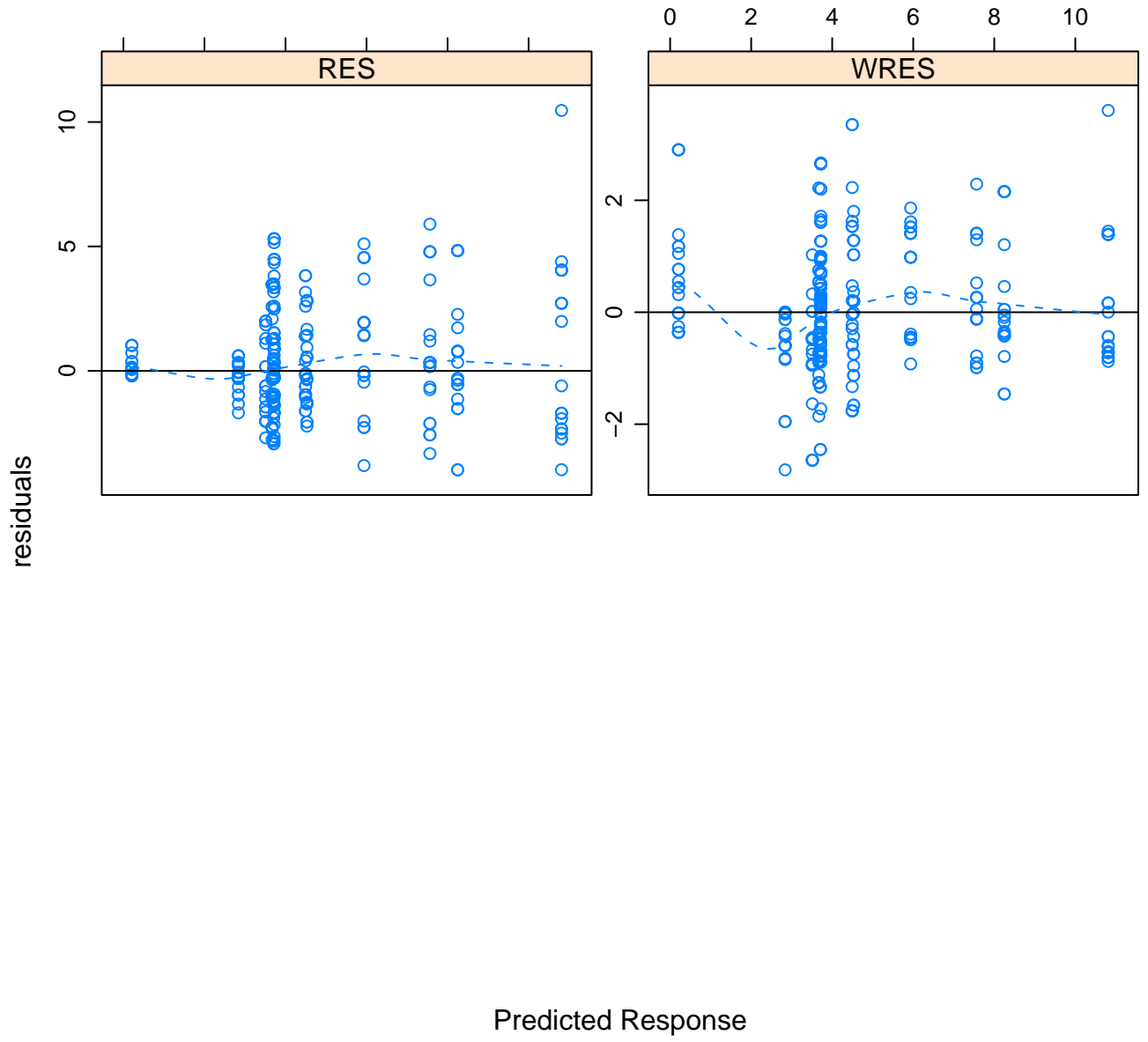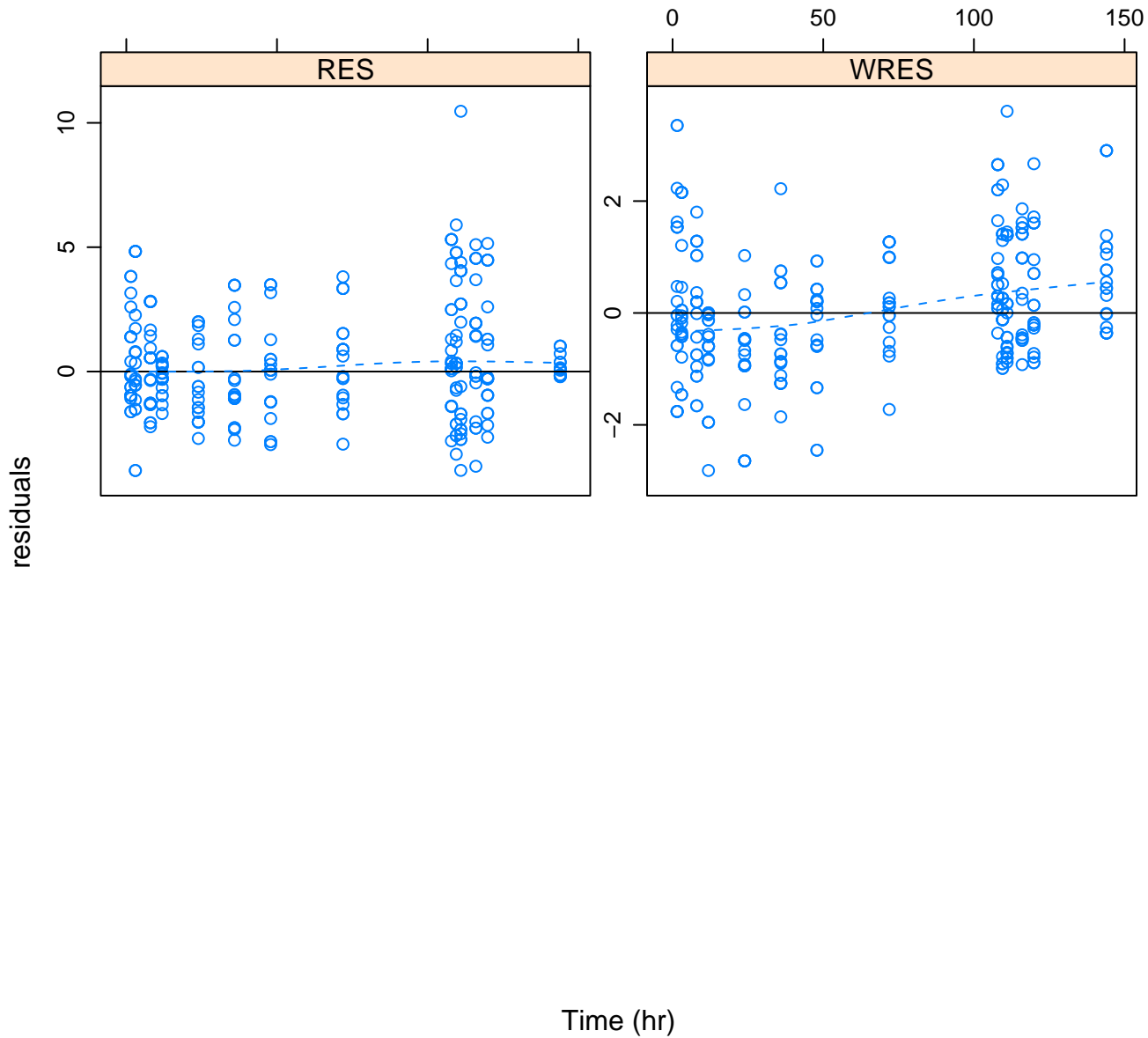**Residuals vs. Predicted for male data**
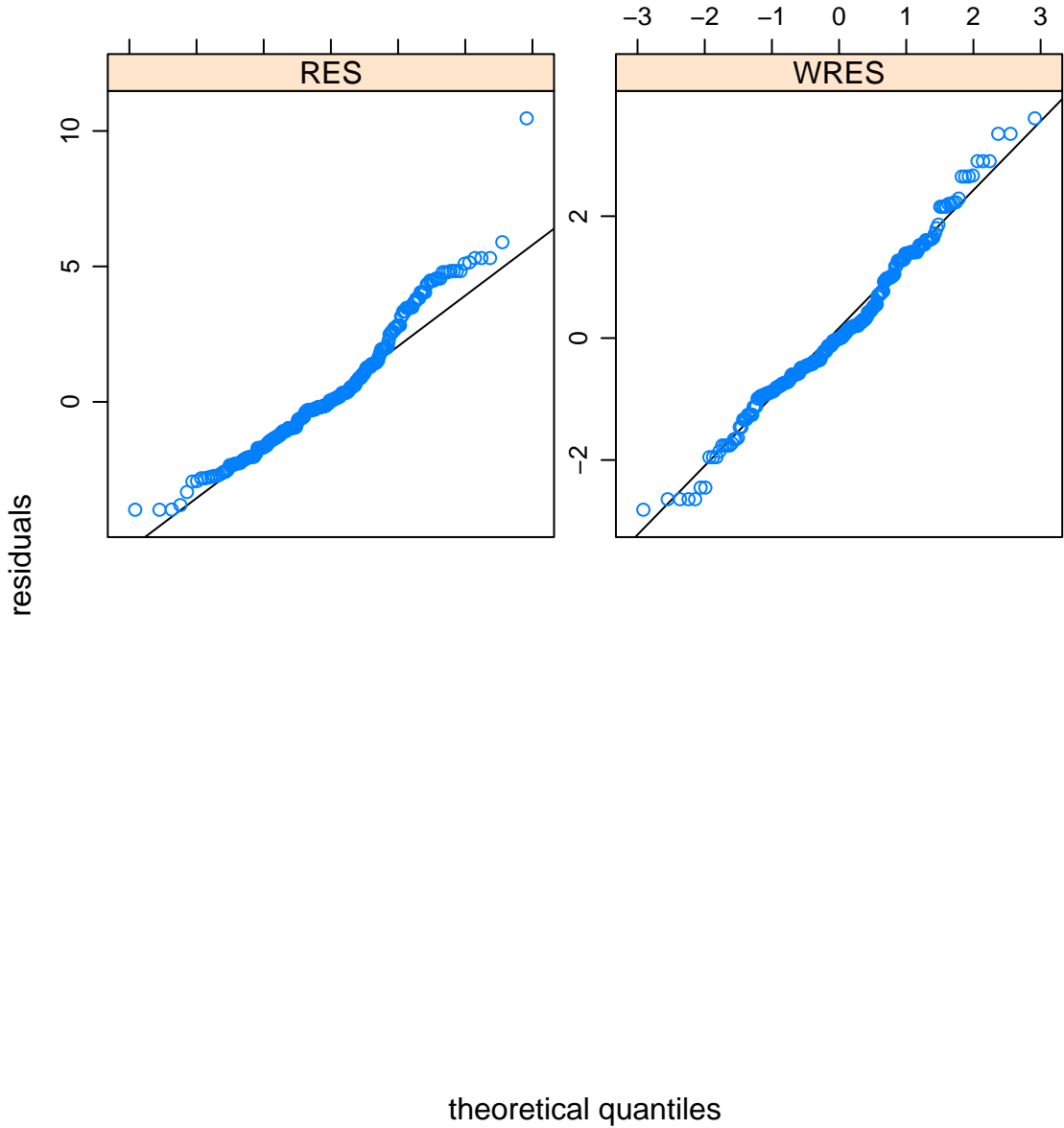
Model 1002
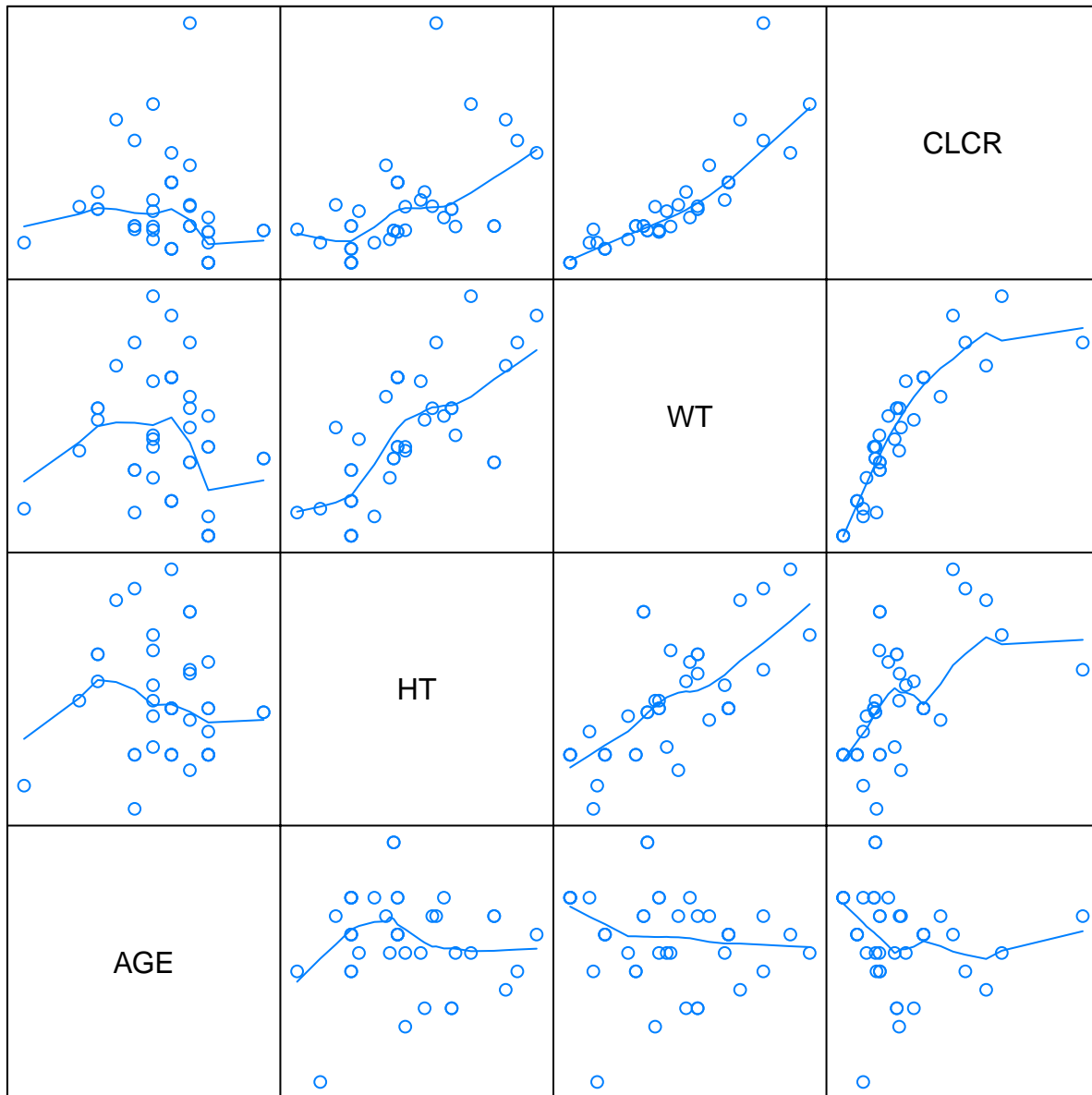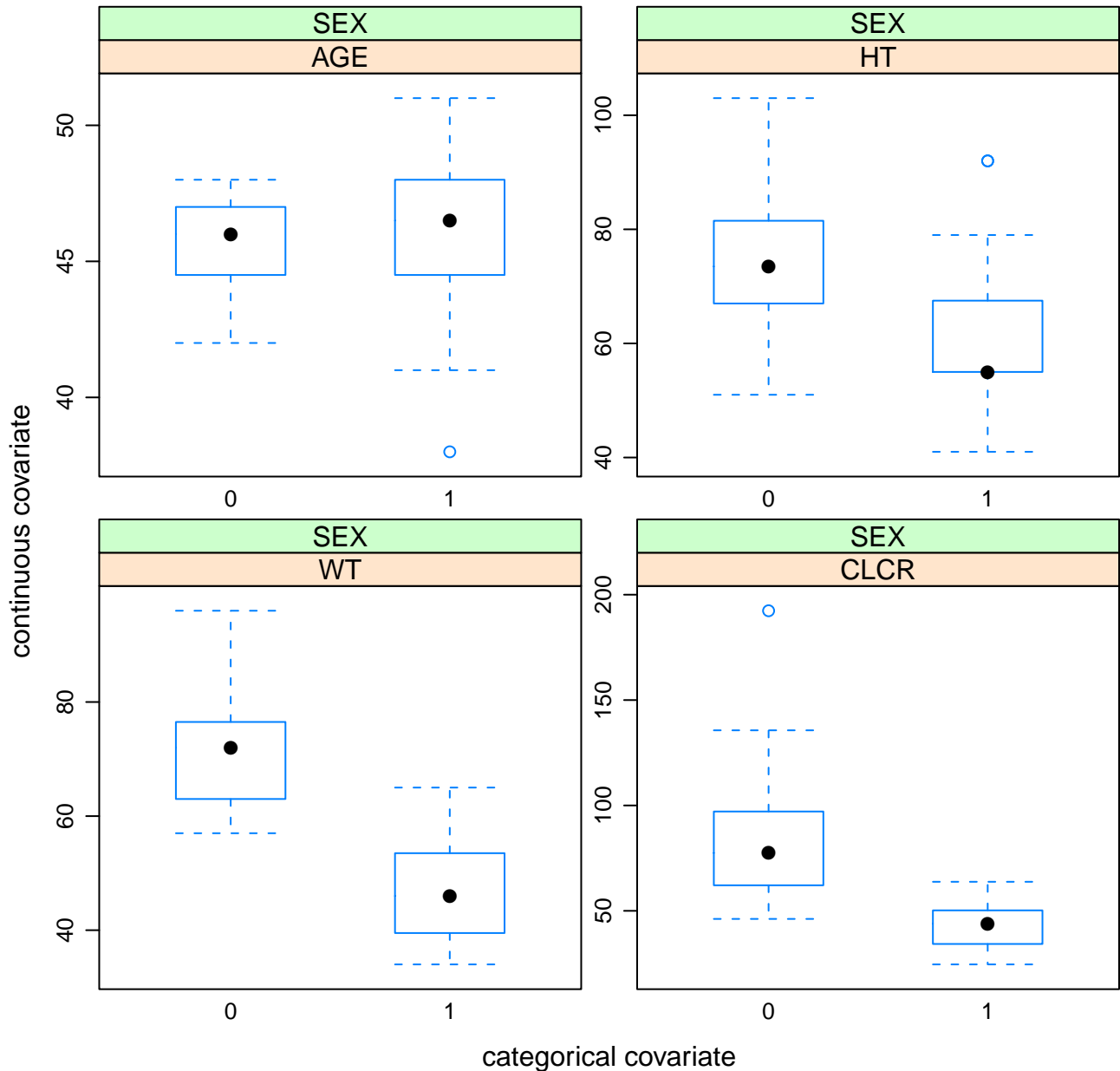**Residuals vs. Time for male data**

Model 1002
Normal Q–Q Plot Residuals for male data

Covariate Scatterplots
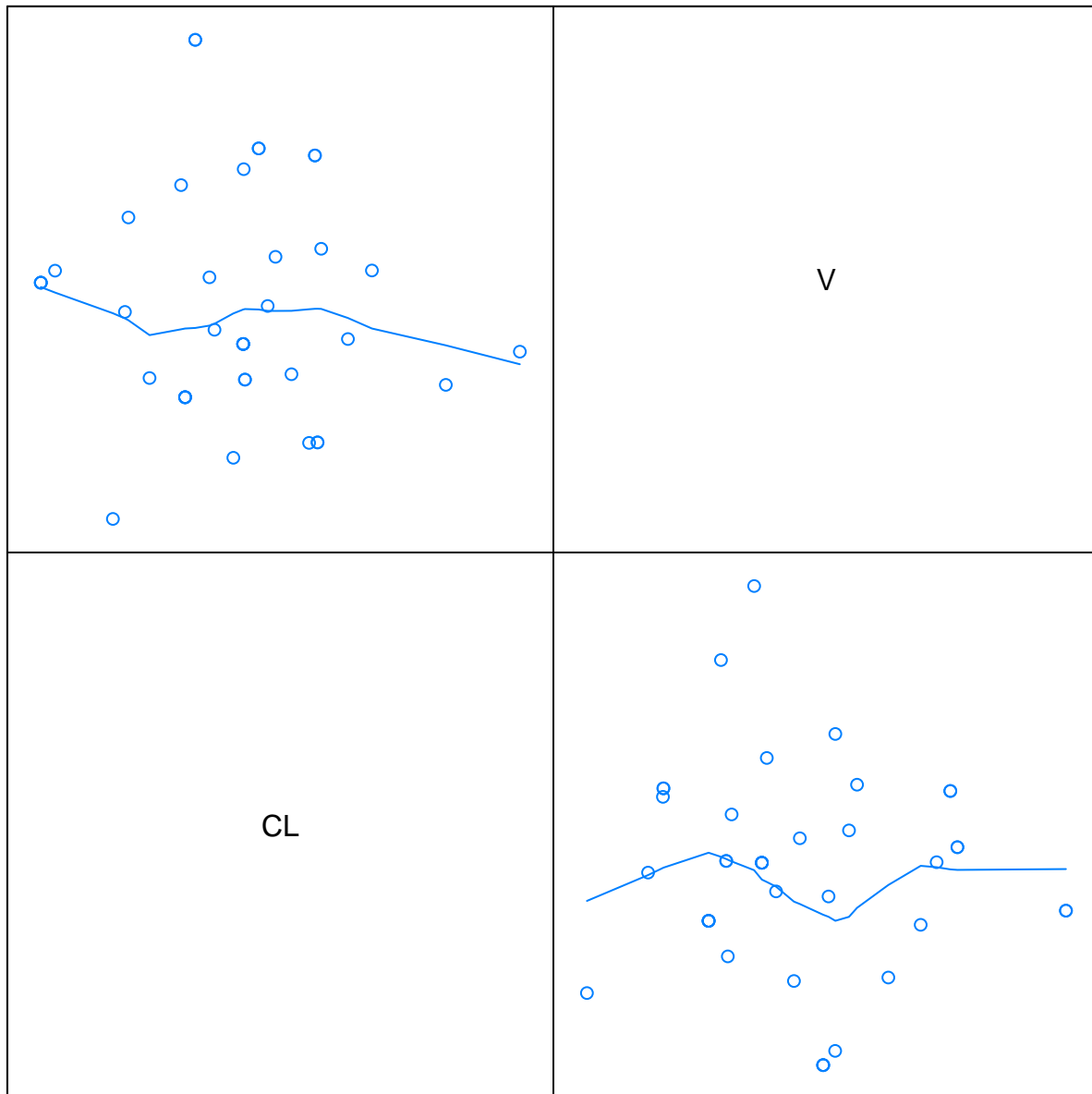
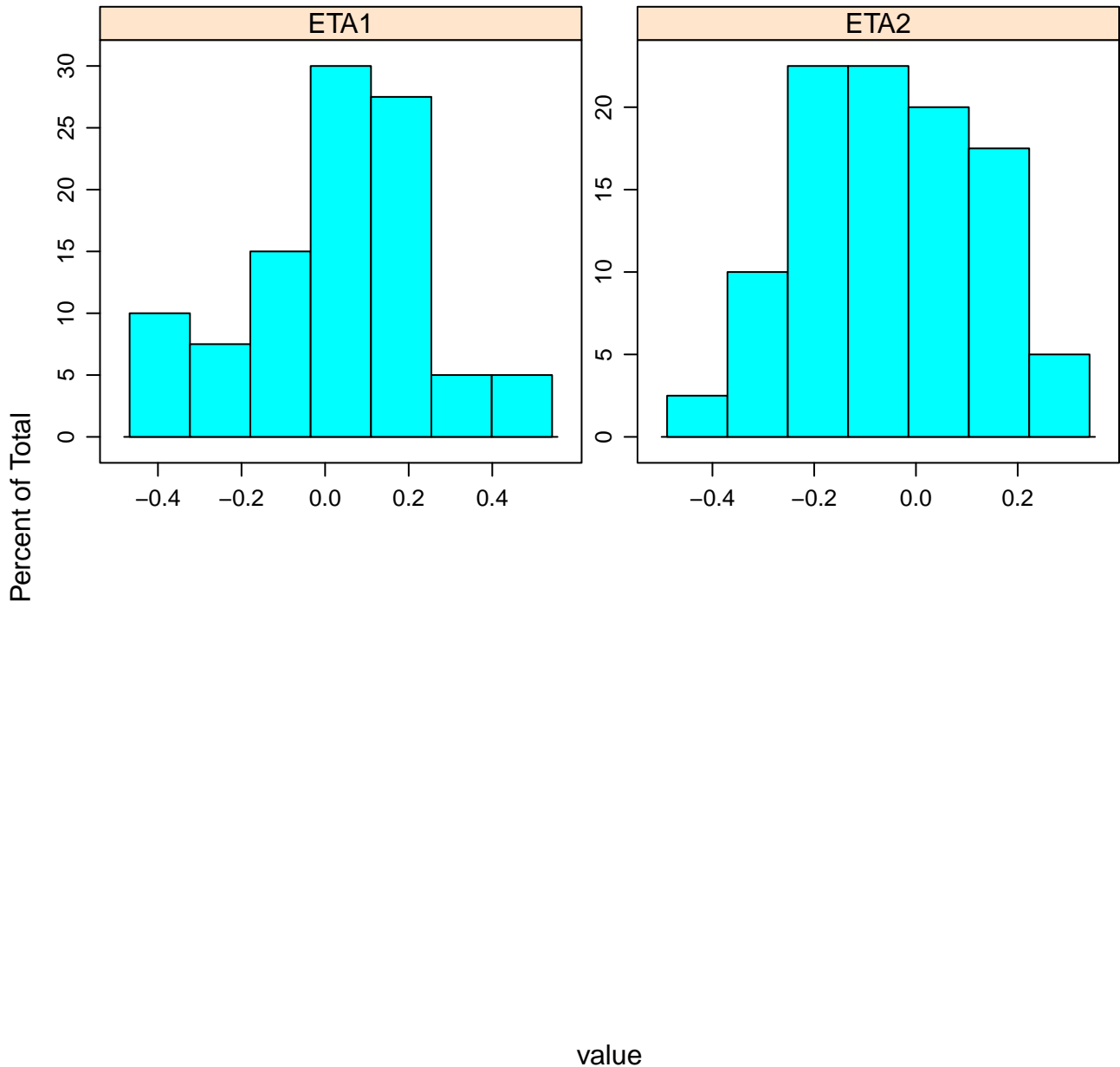**Continuous Covariates vs. Categorical Covariates**

ETA Scatterplots

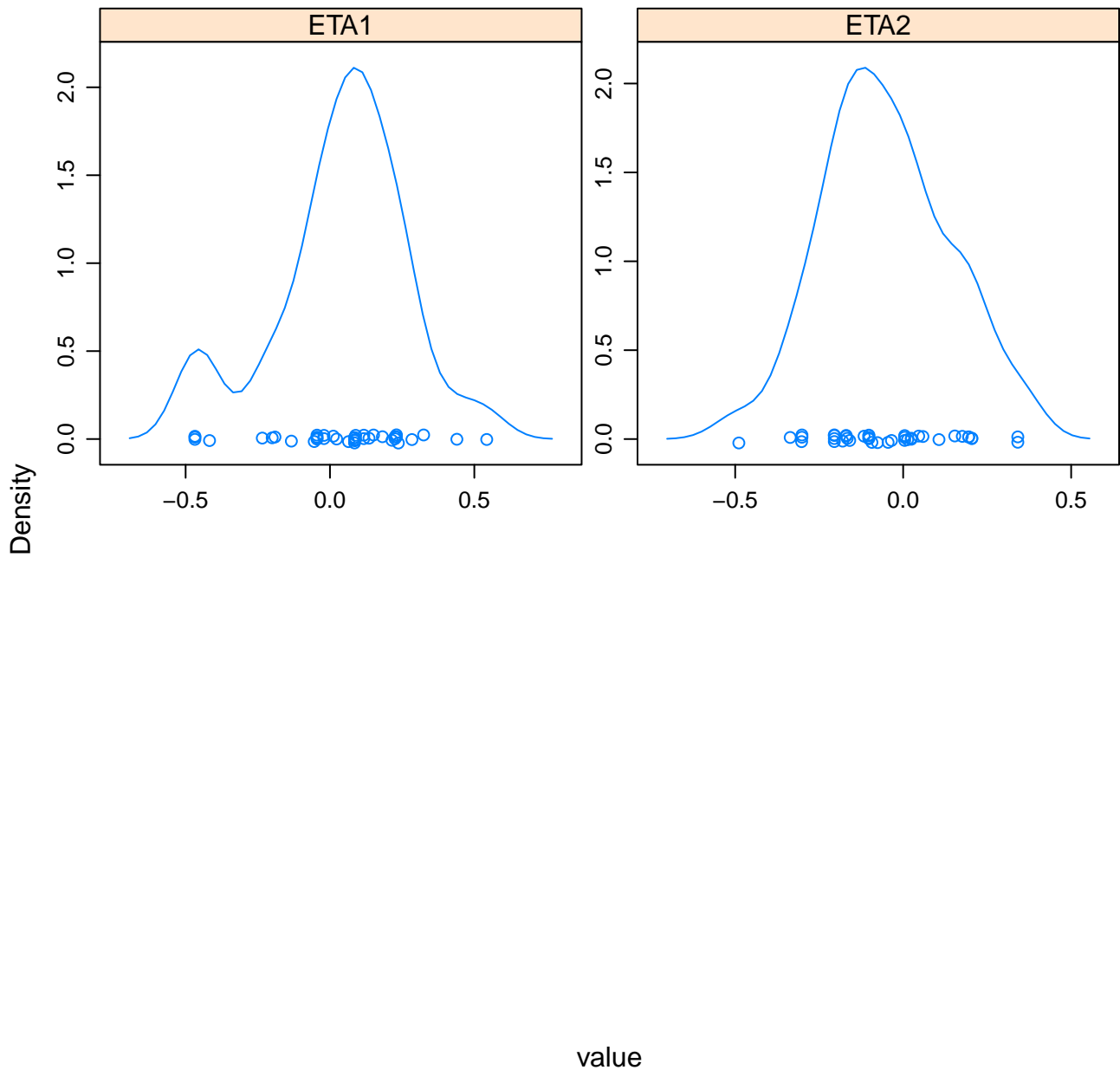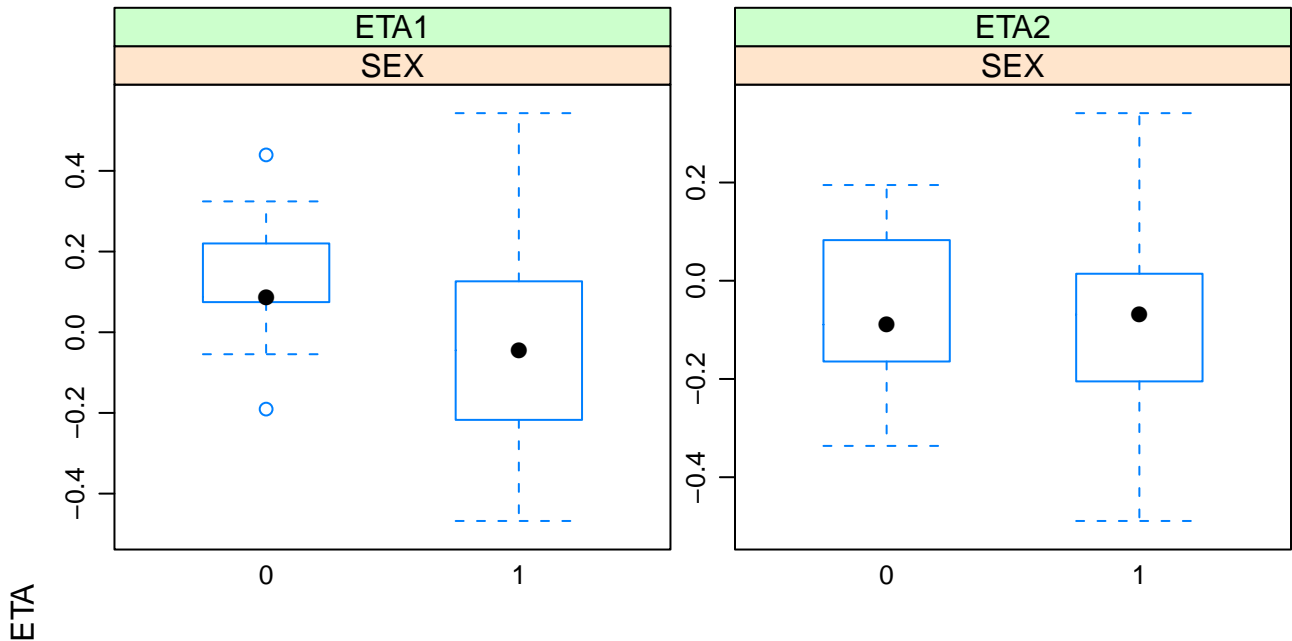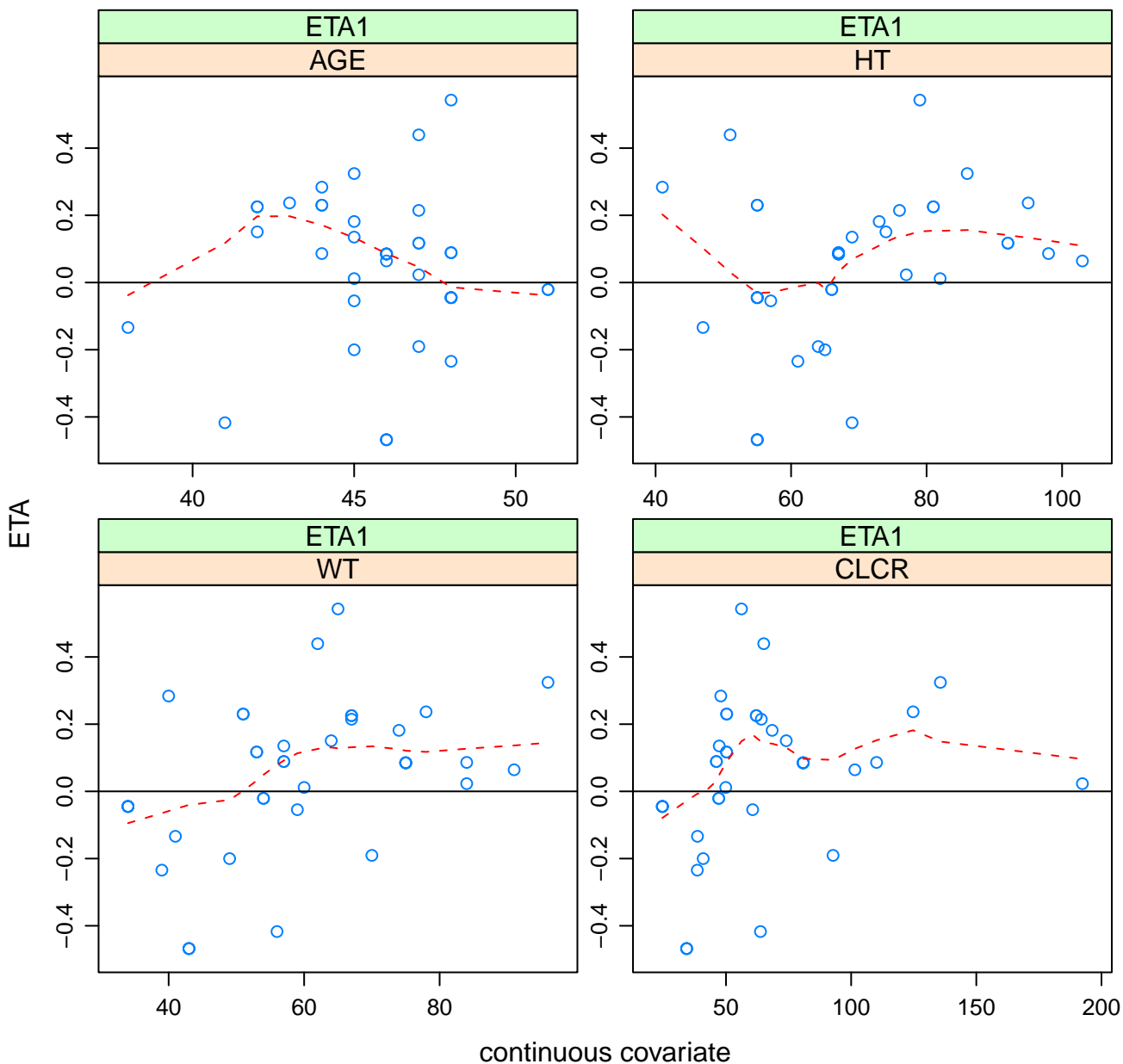# Parameter Scatterplots

Histograms of Etas

Density of Etas

Boxplots of Etas by Categorical Covariate

ETA1 — SEX

ETA2 — SEX

ETA

categorical covariate level

Etas vs. Continuous Covariates

Etas vs. Continuous Covariates