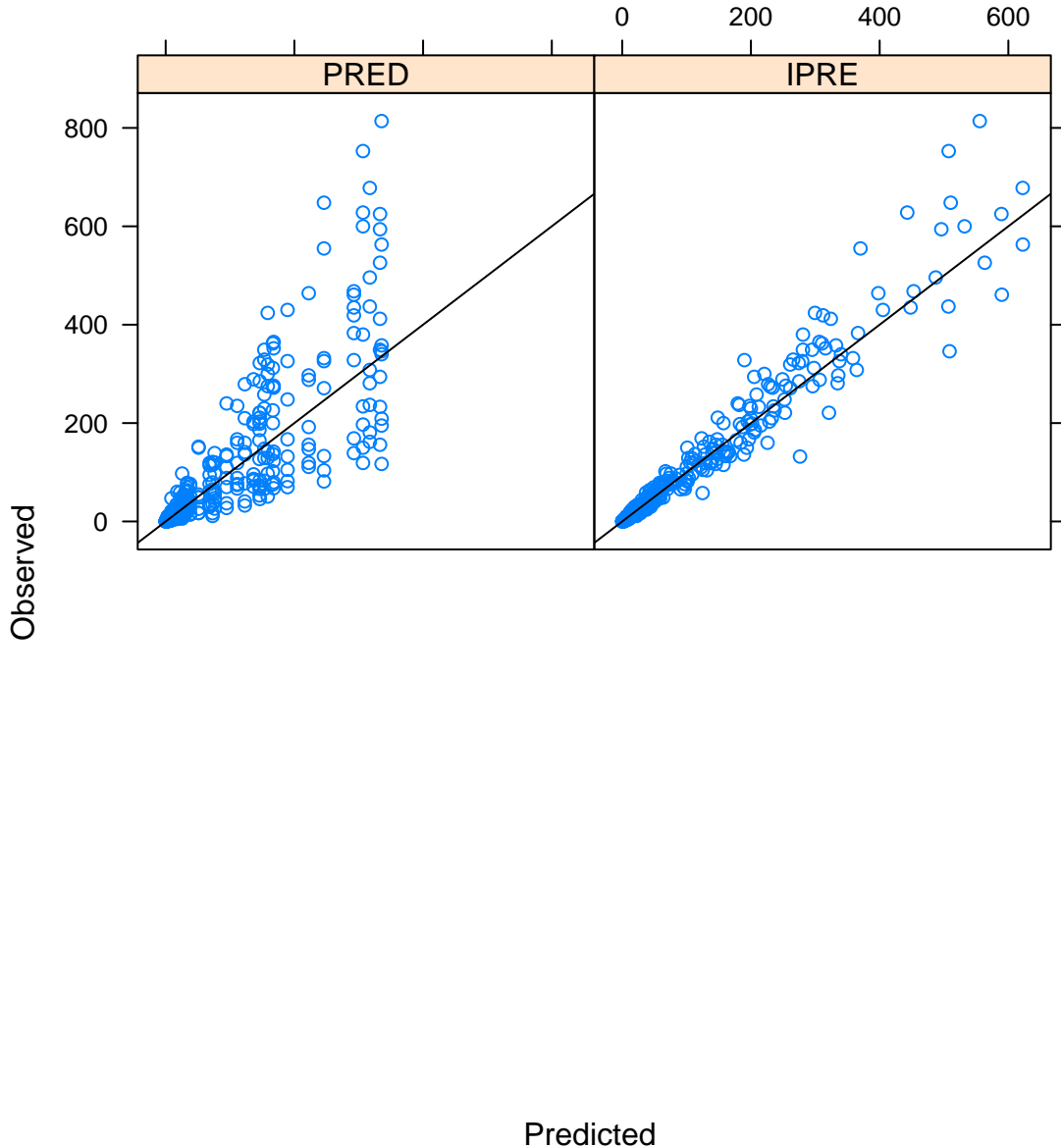


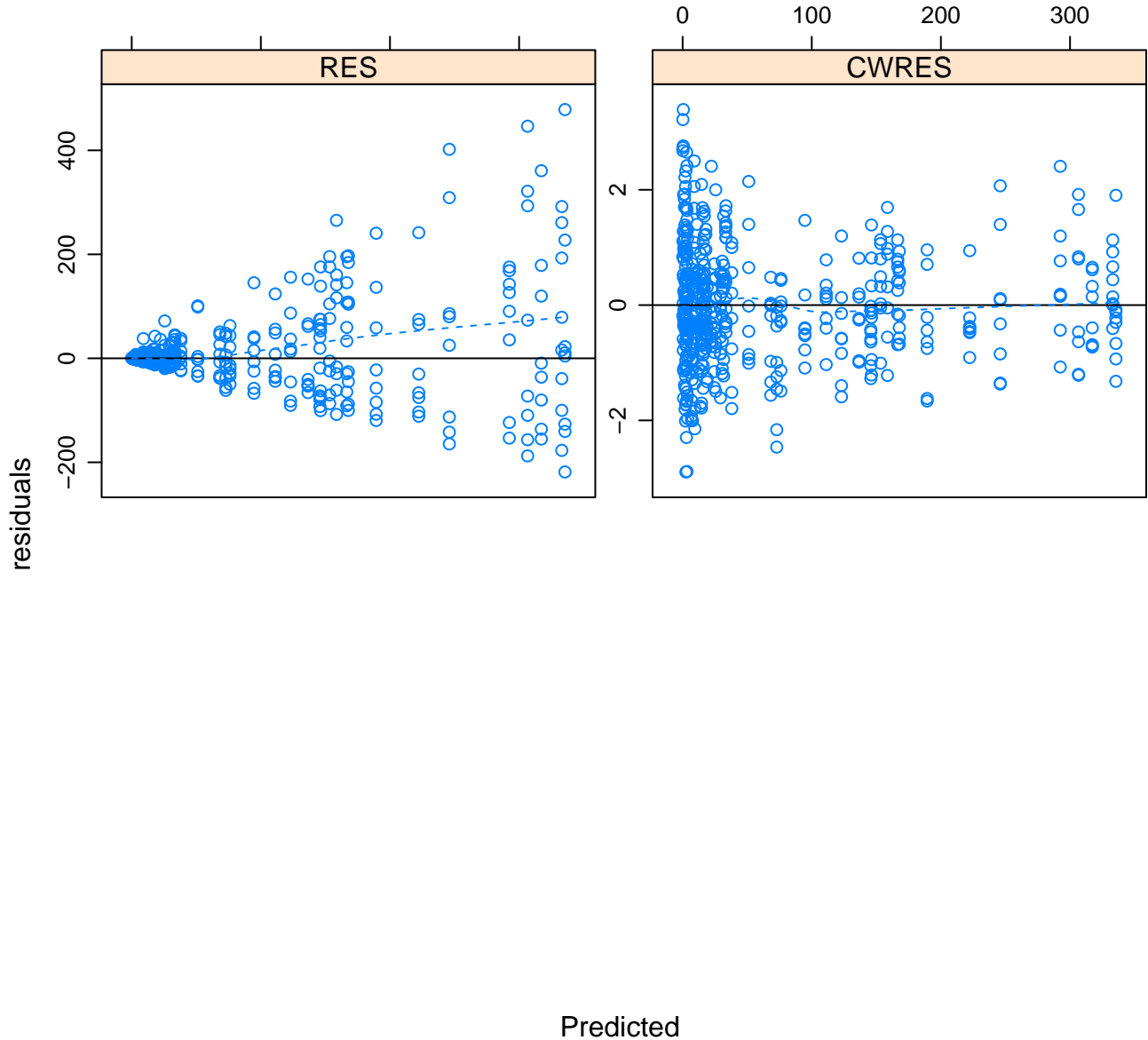
Model 1003

Observed vs. Predicted for all data



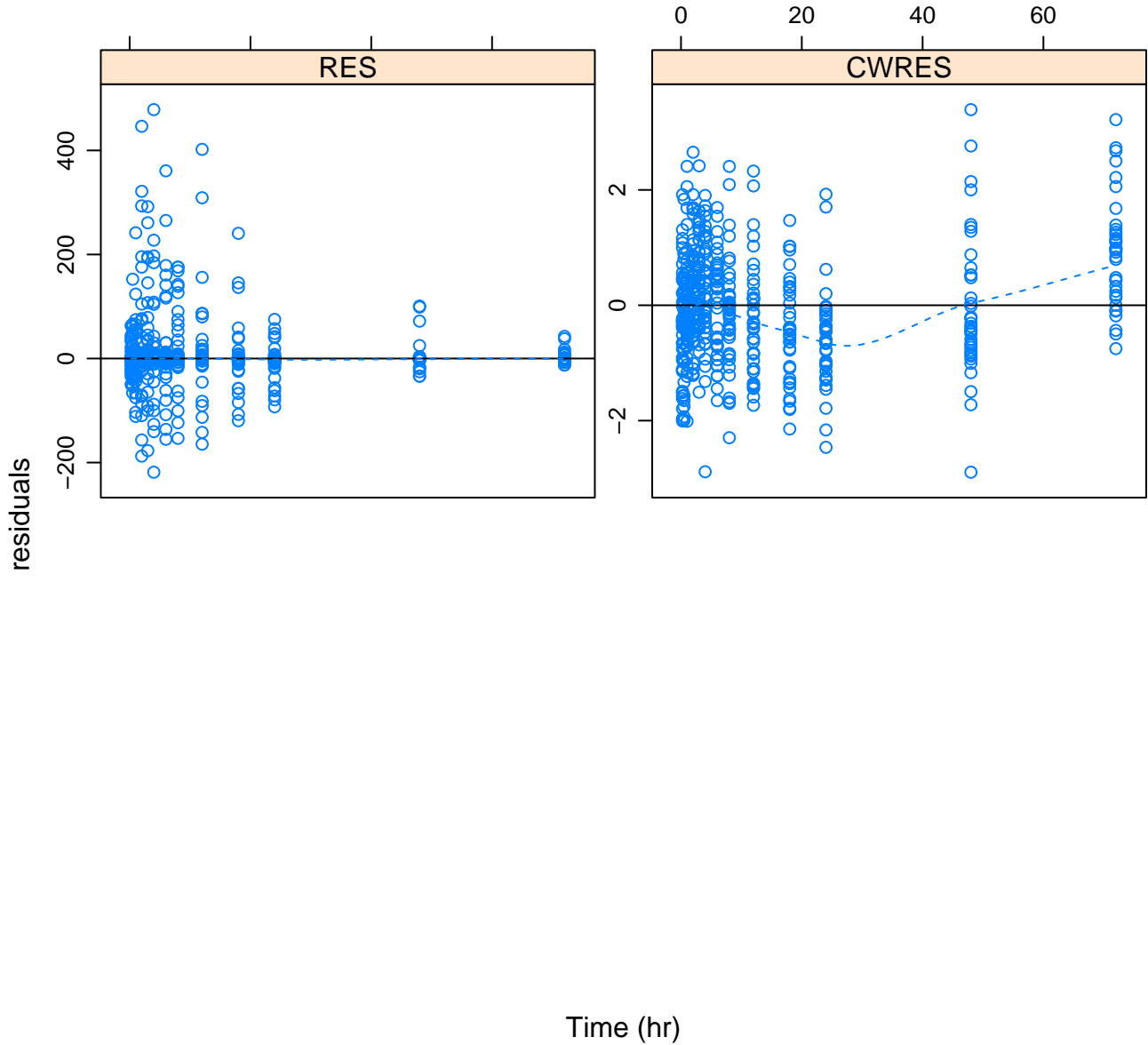
Model 1003

Residuals vs. Predicted for all data



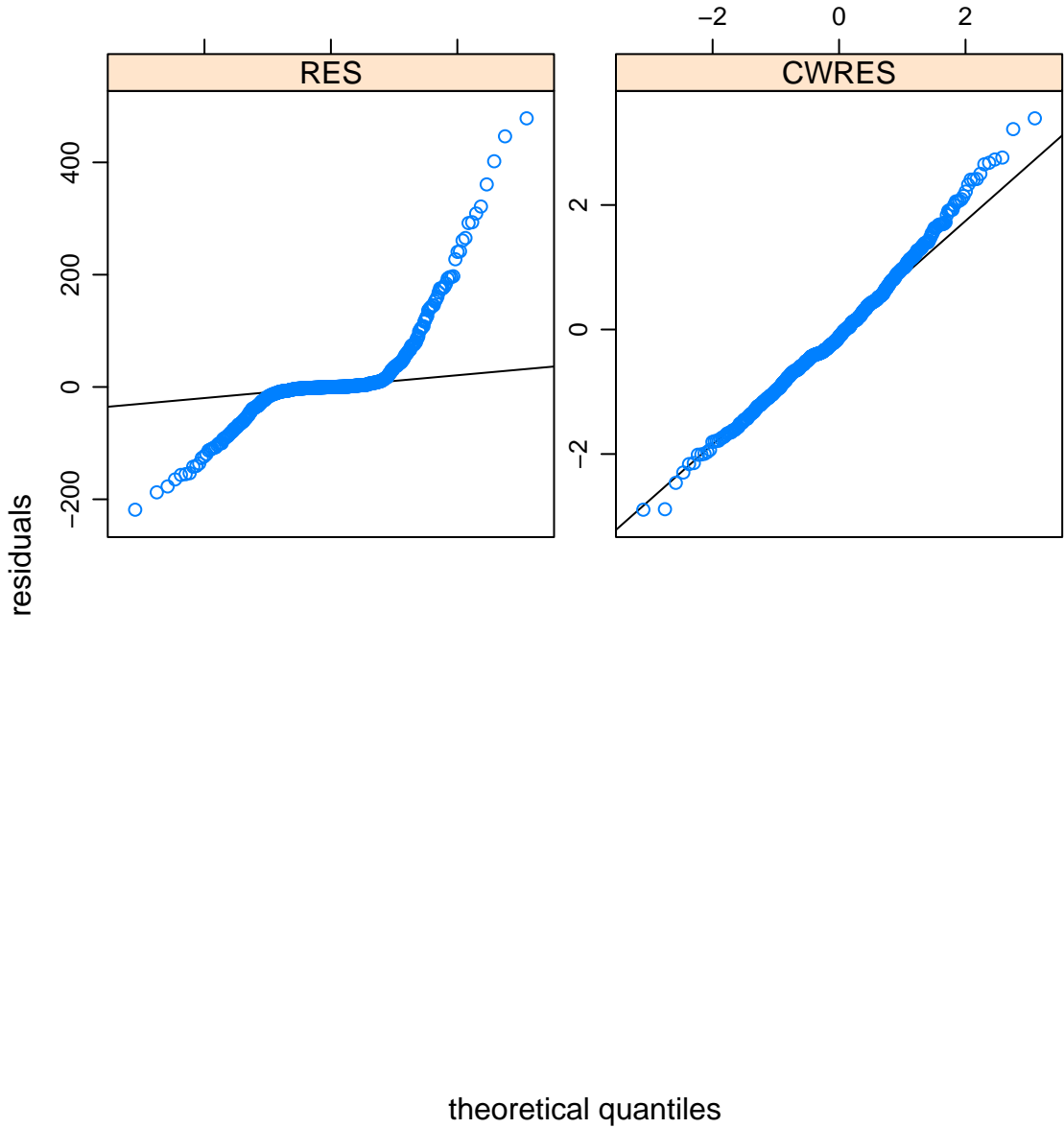
Model 1003

Residuals vs. Time for all data



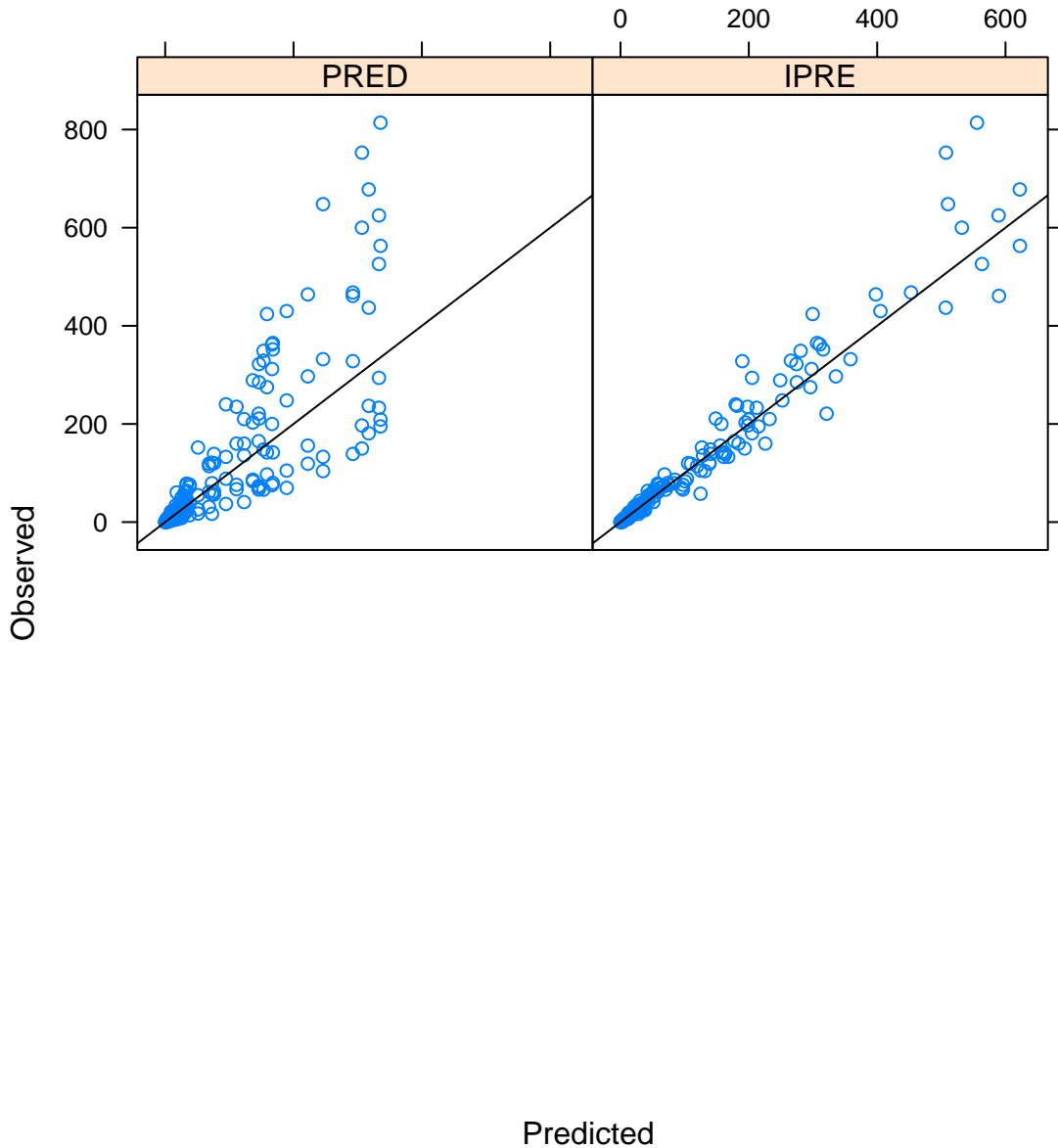
Model 1003

Normal Q-Q Plot Residuals for all data



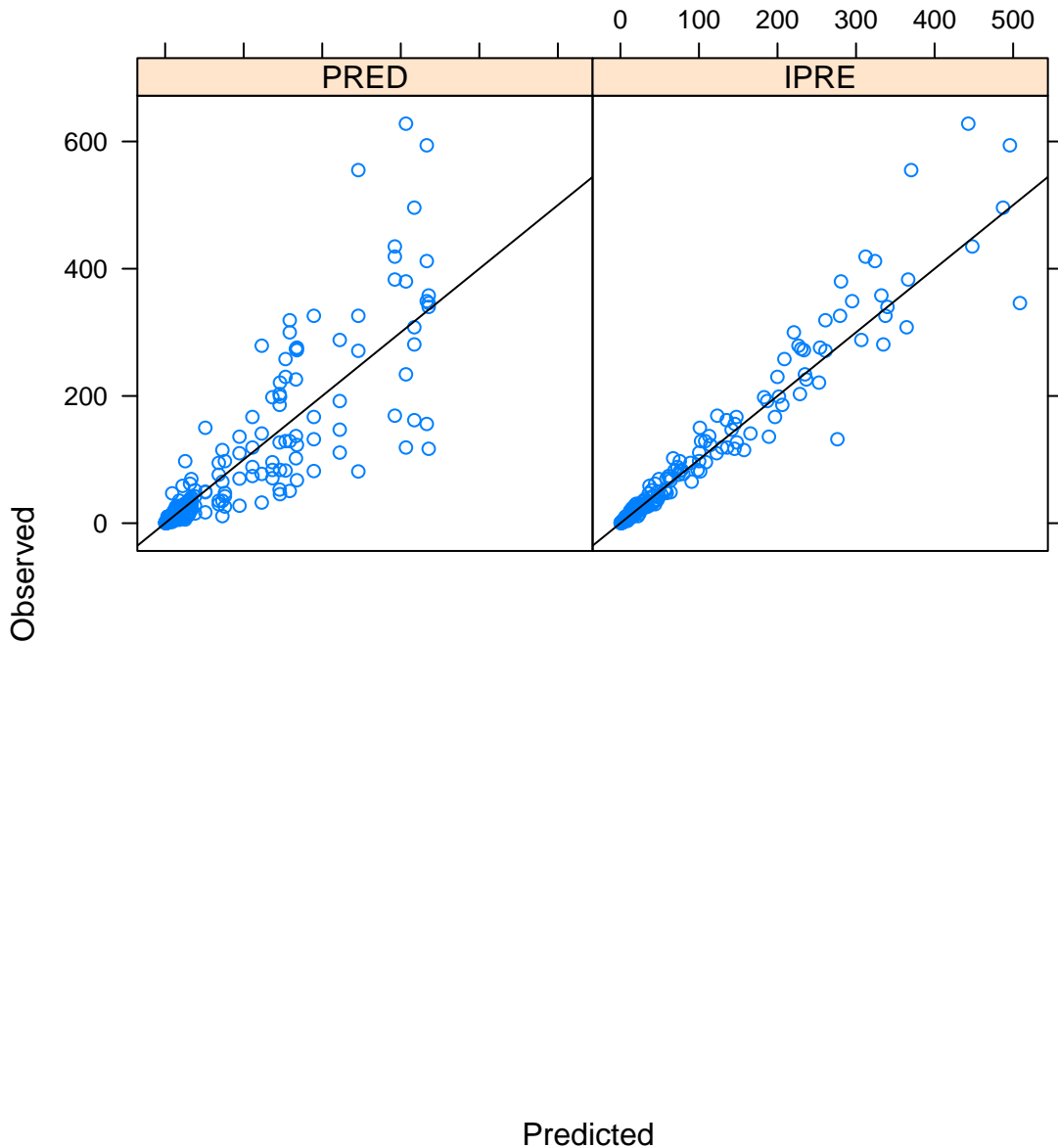
Model 1003

Observed vs. Predicted for female data



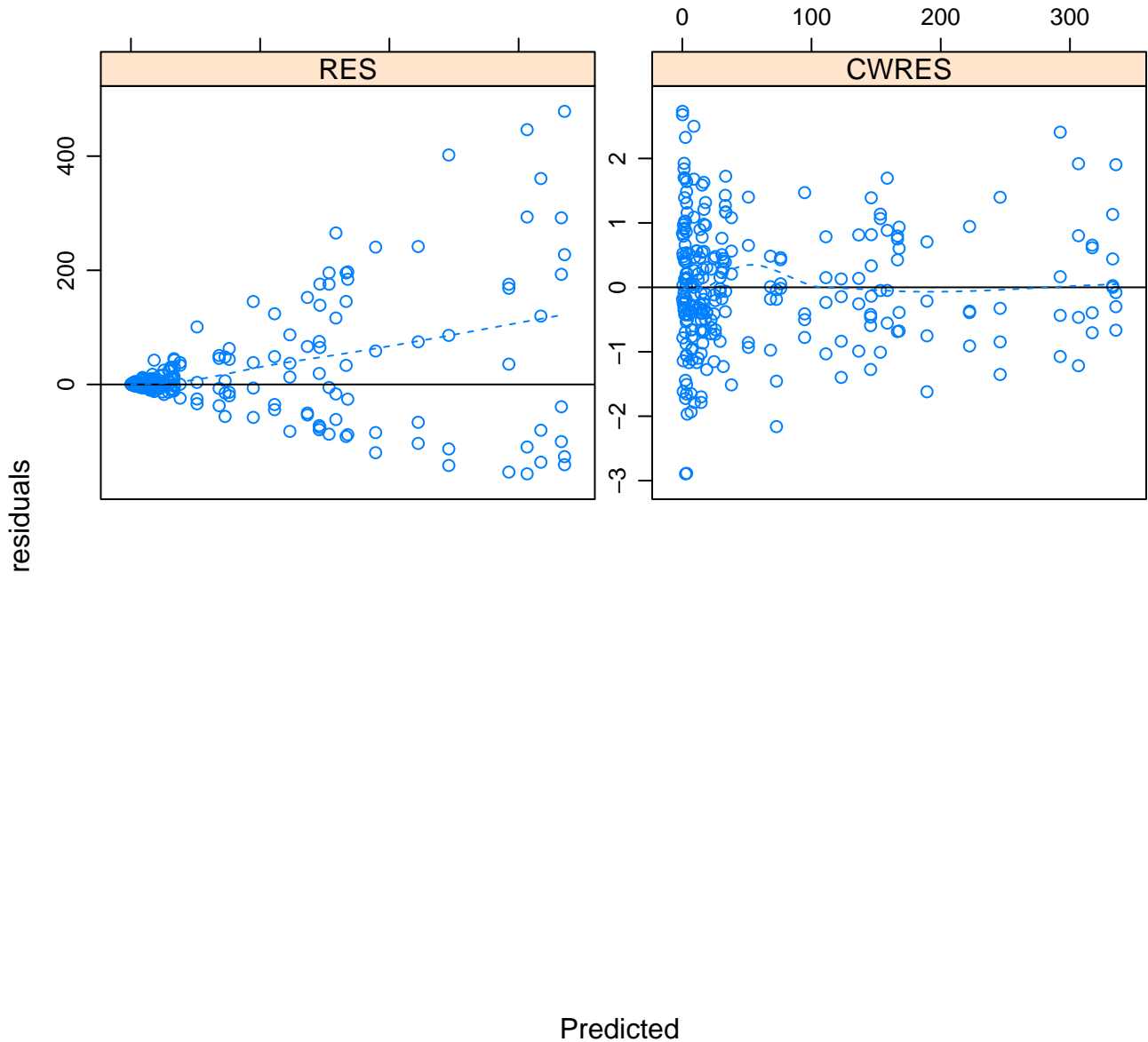
Model 1003

Observed vs. Predicted for male data

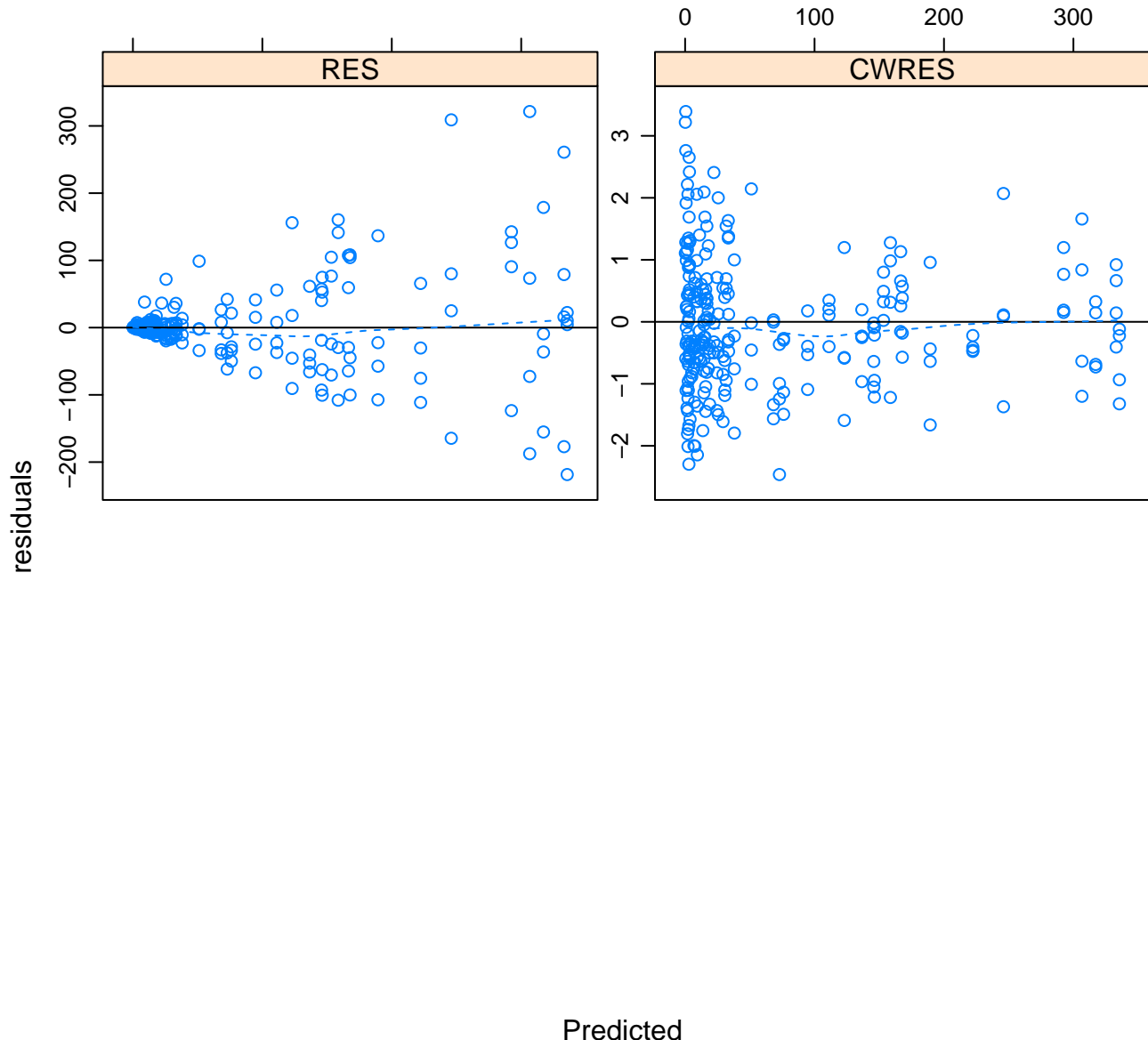


Model 1003

Residuals vs. Predicted for female data

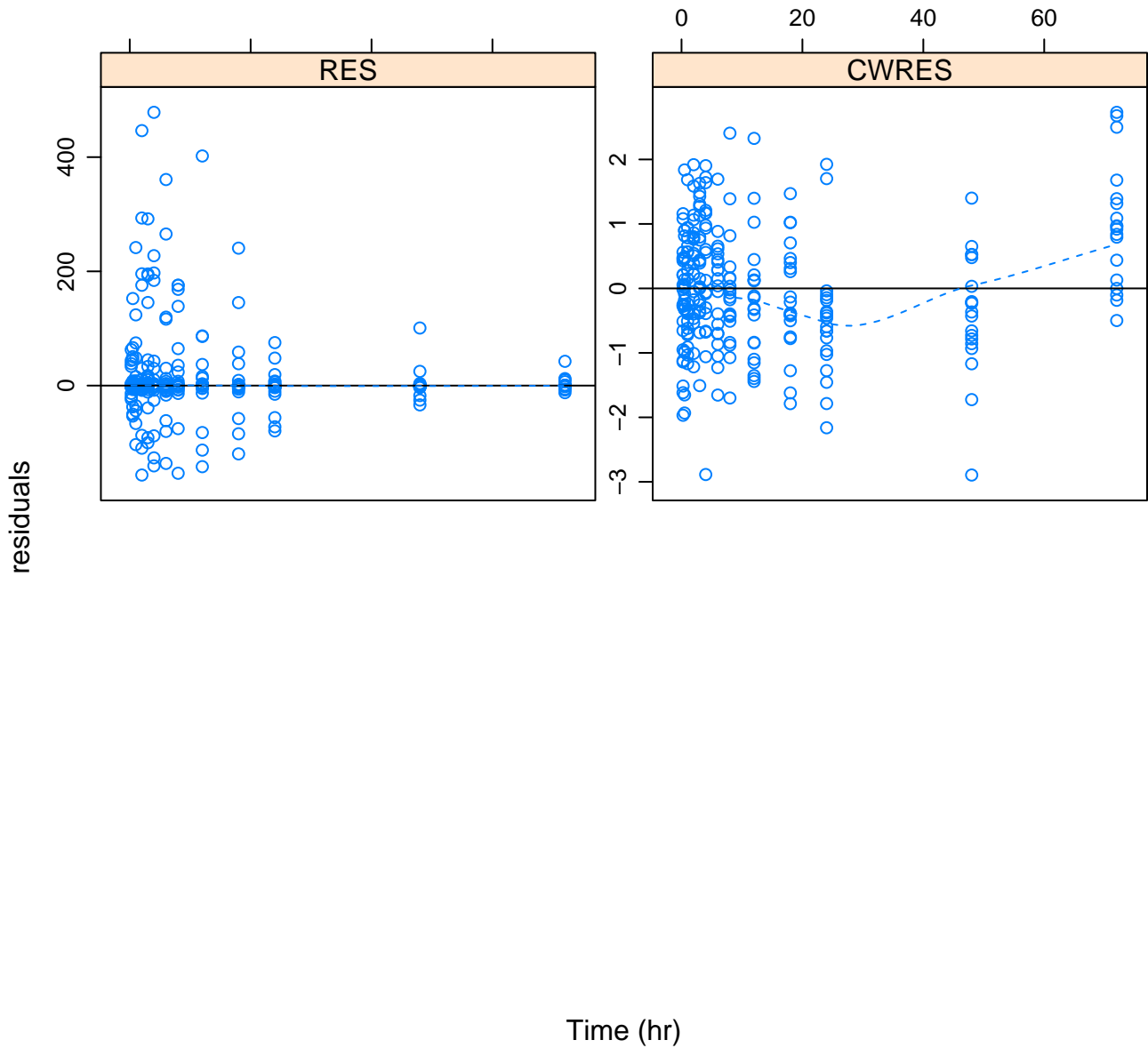


Model 1003
Residuals vs. Predicted for male data



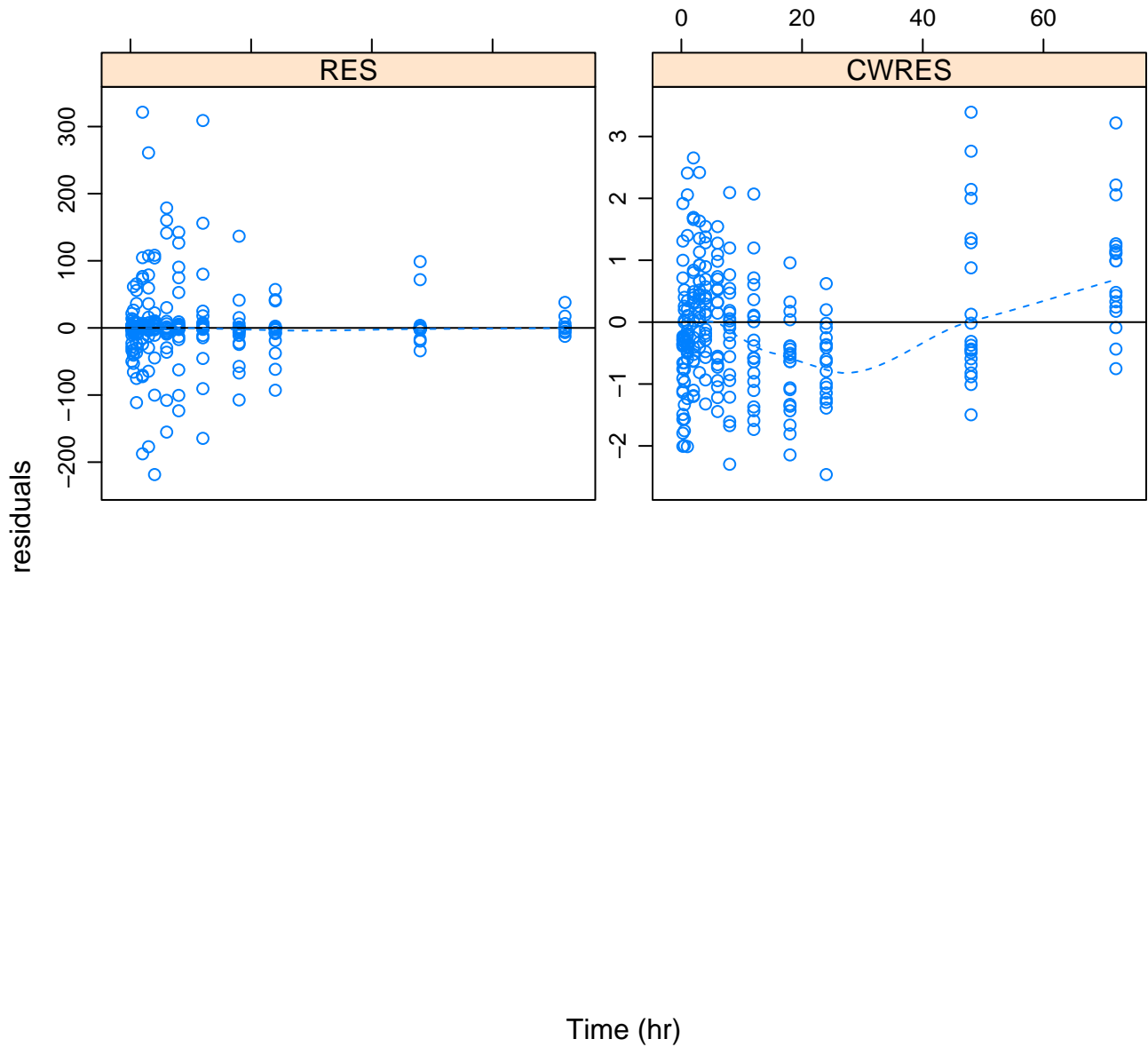
Model 1003

Residuals vs. Time for female data



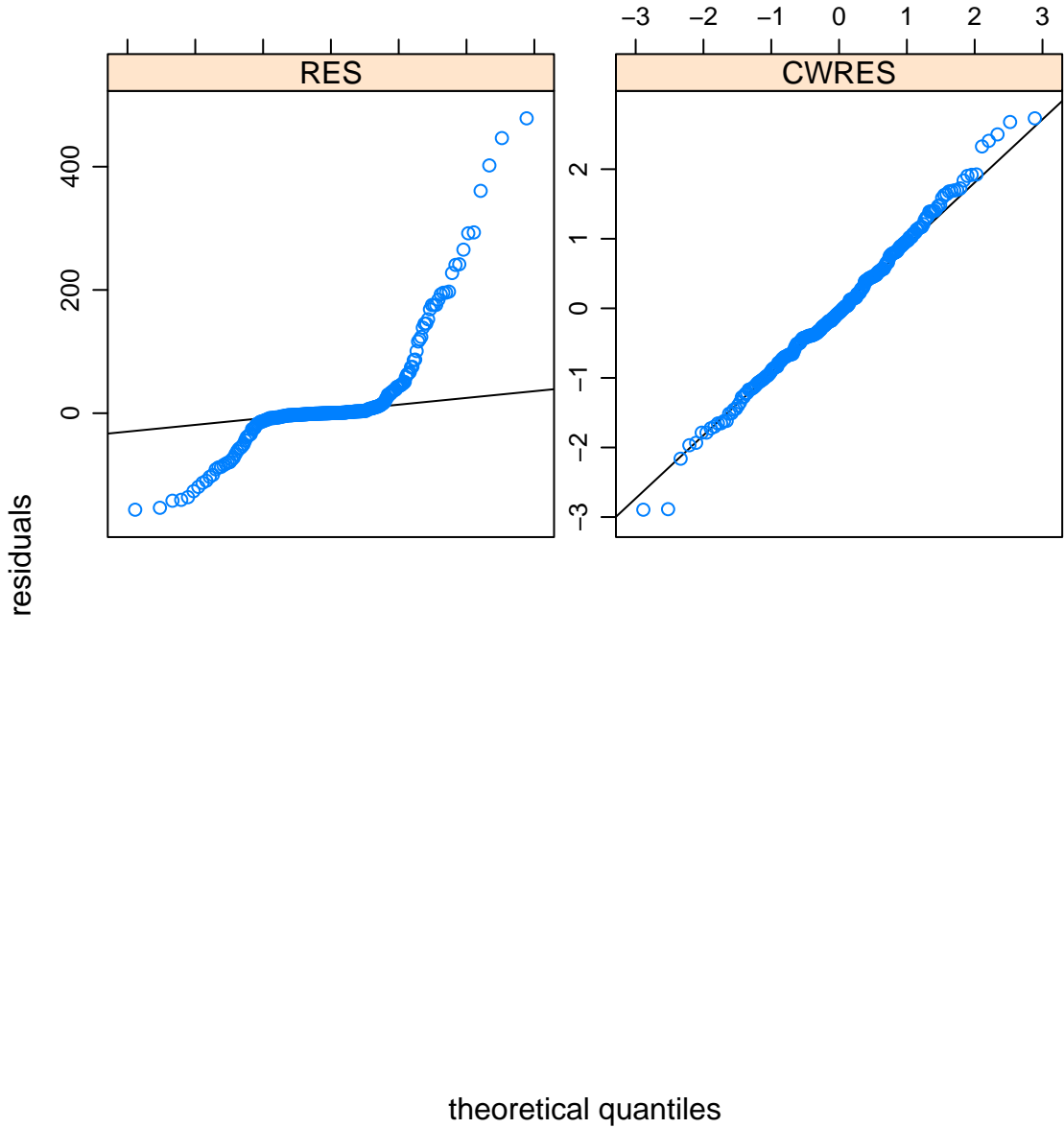
Model 1003

Residuals vs. Time for male data



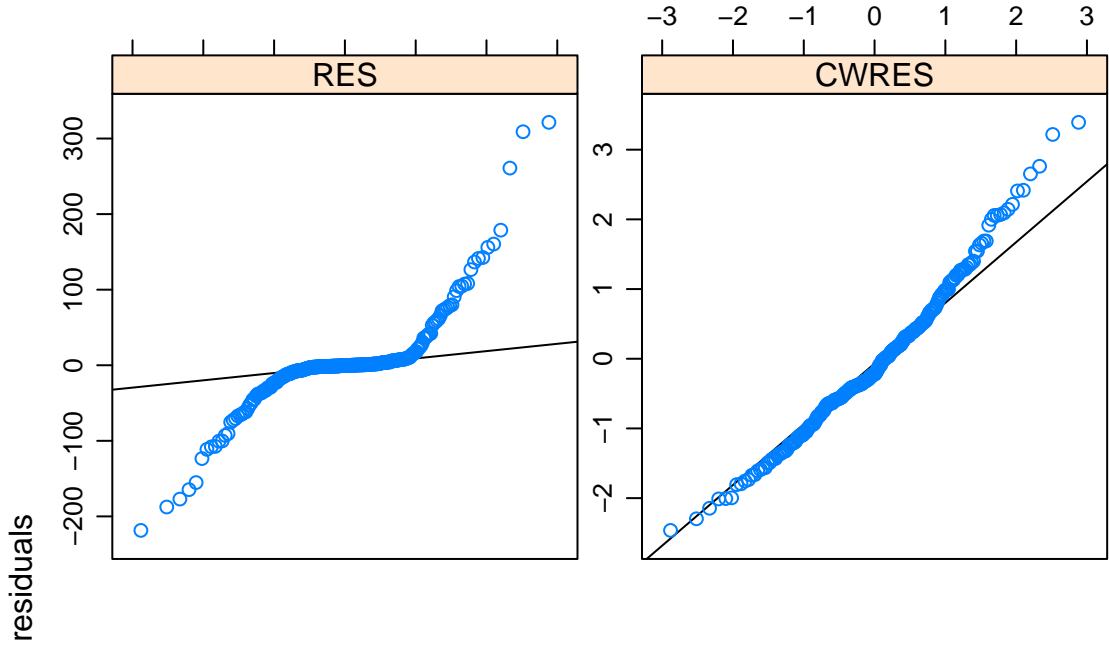
Model 1003

Normal Q-Q Plot Residuals for female data



Model 1003

Normal Q-Q Plot Residuals for male data



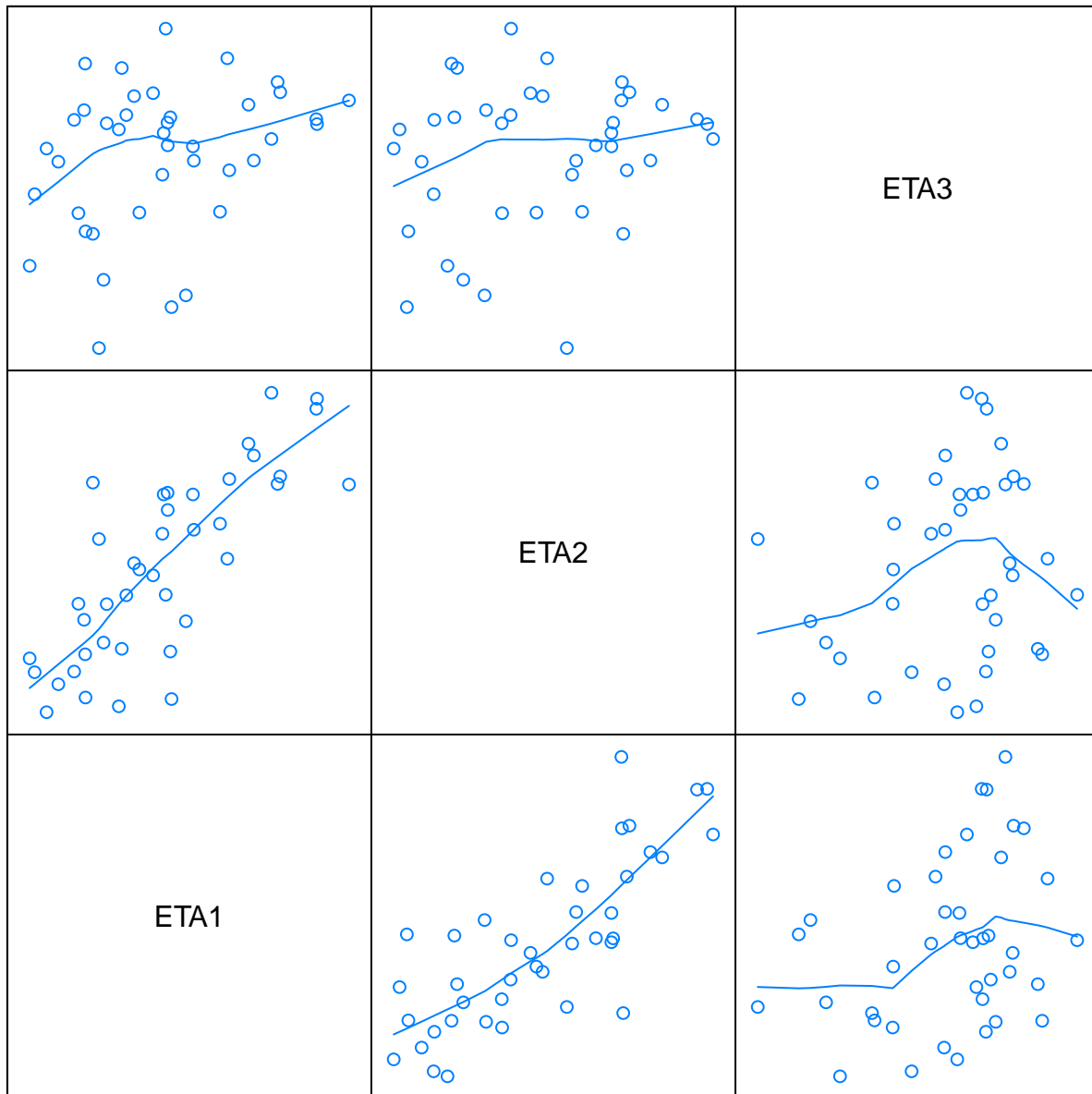
Covariate Scatterplots



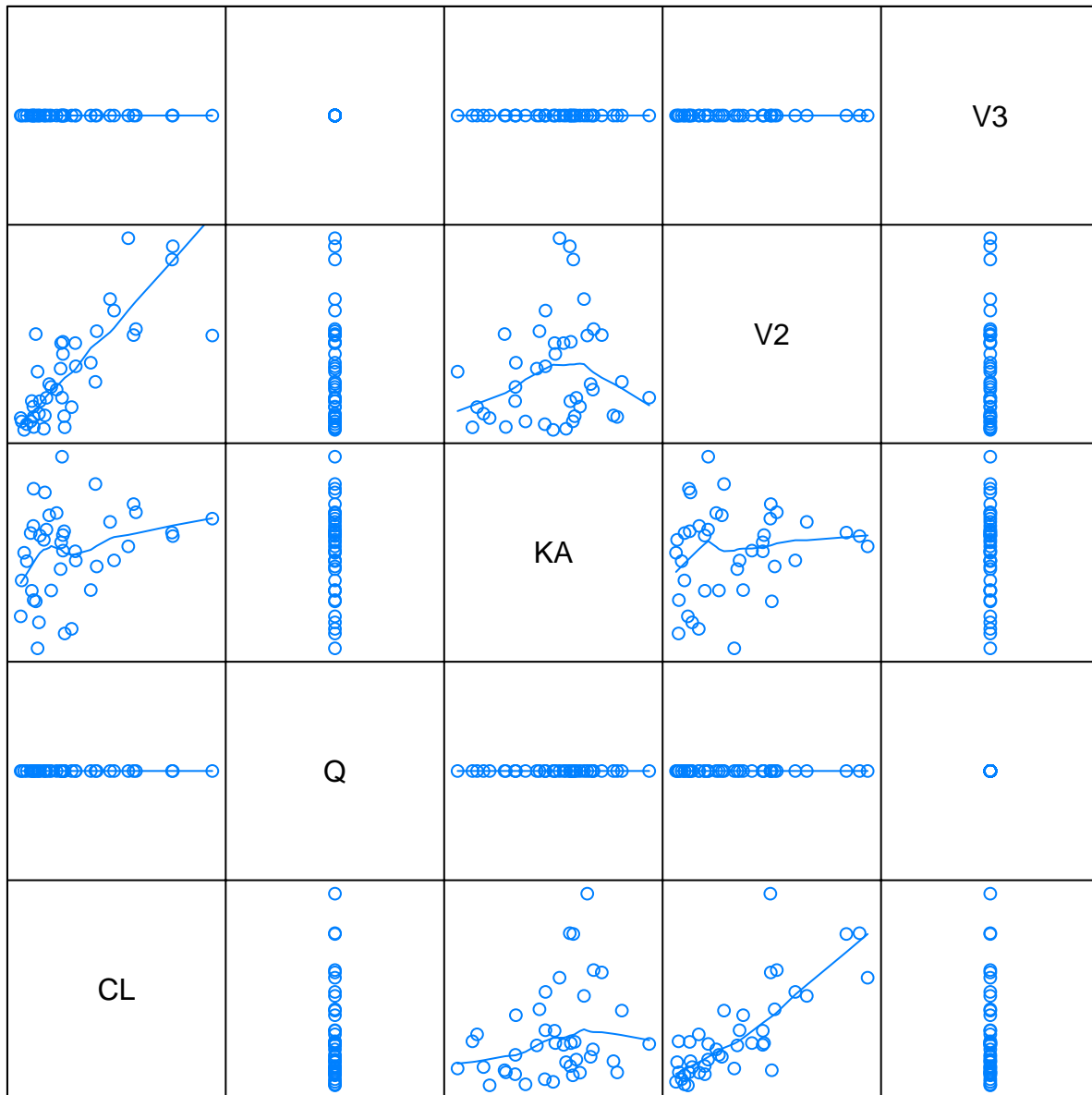
Continuous Covariates vs. Categorical Covariates



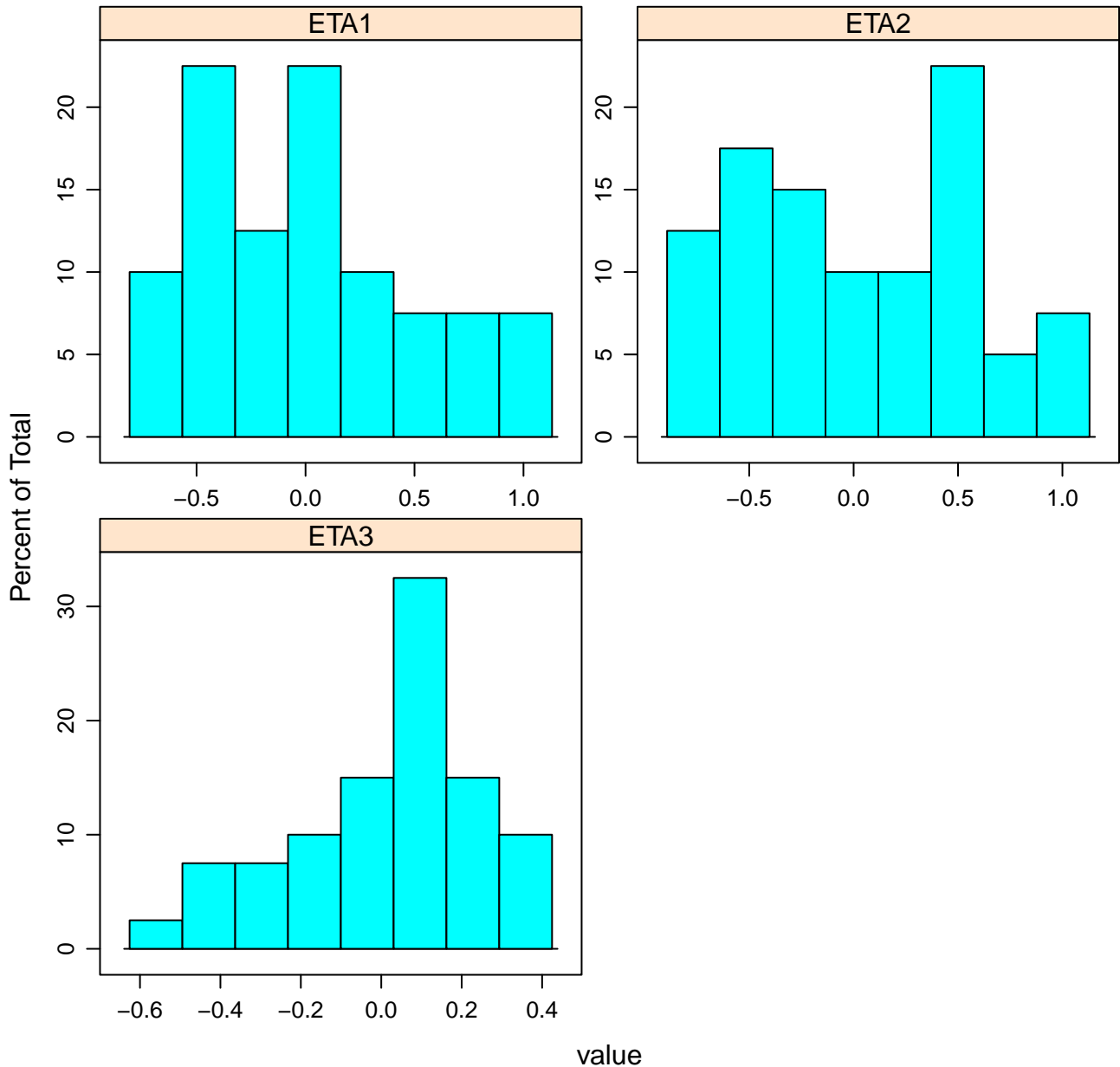
ETA Scatterplots



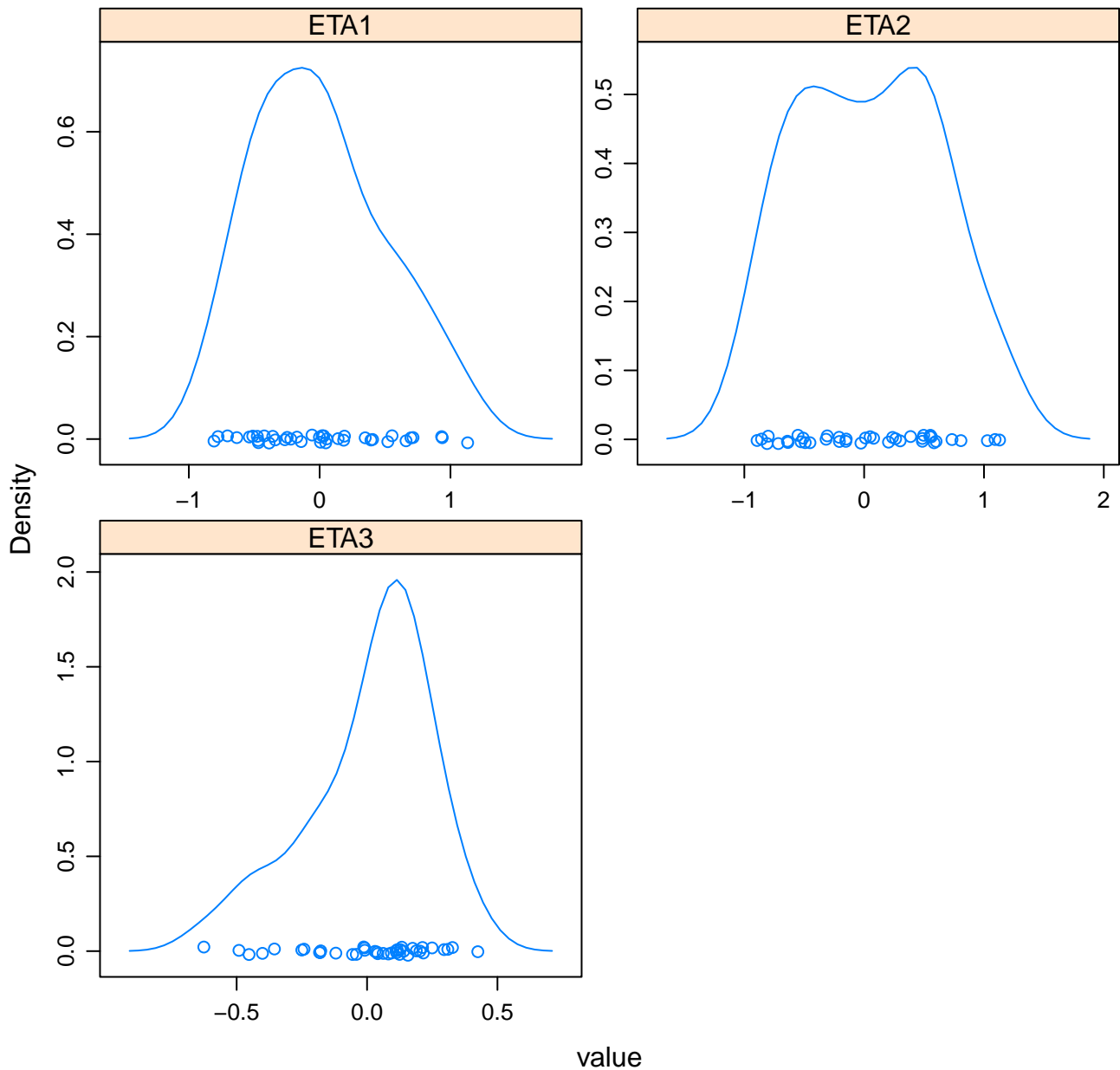
Parameter Scatterplots



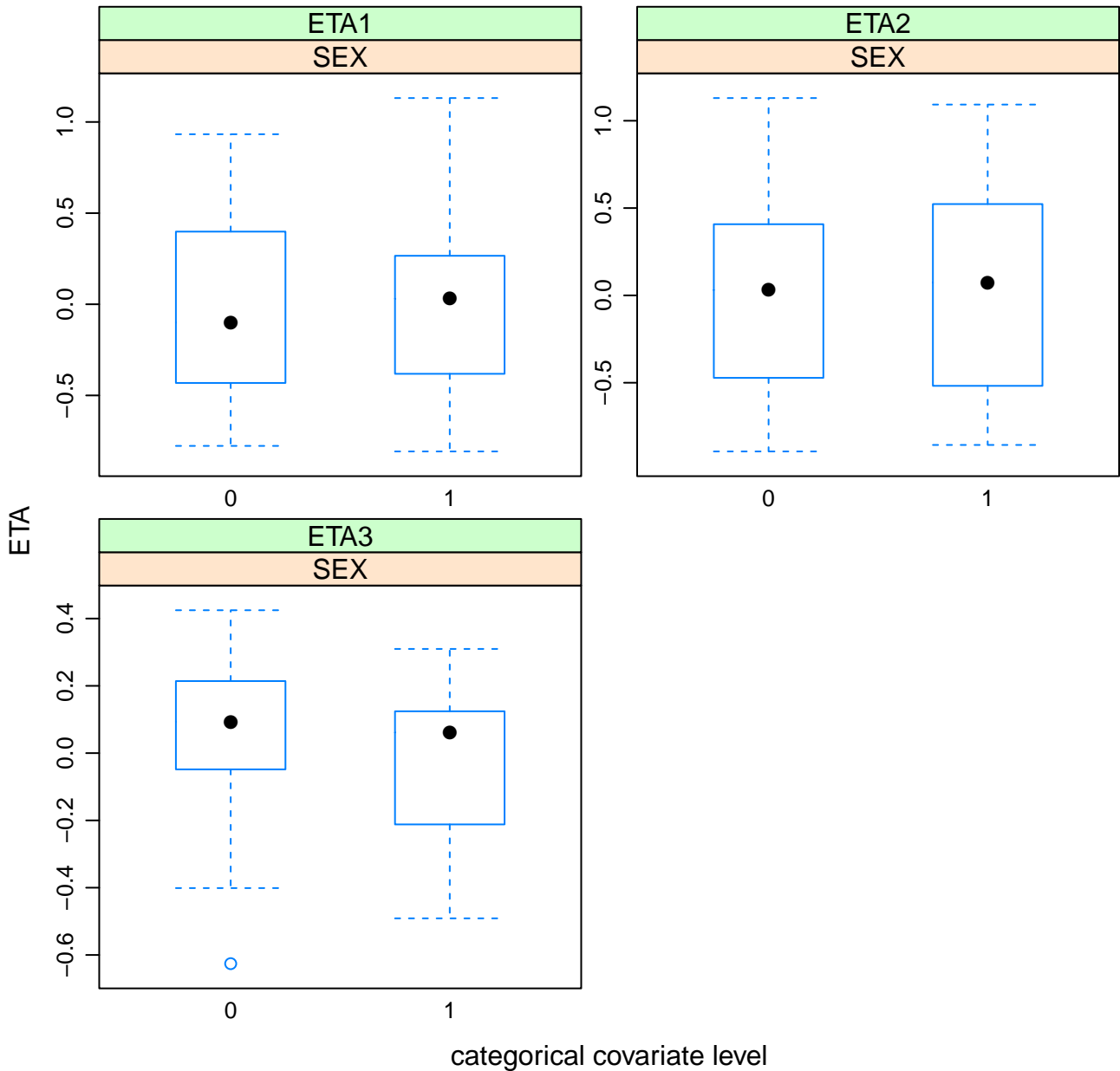
Histograms of Etas



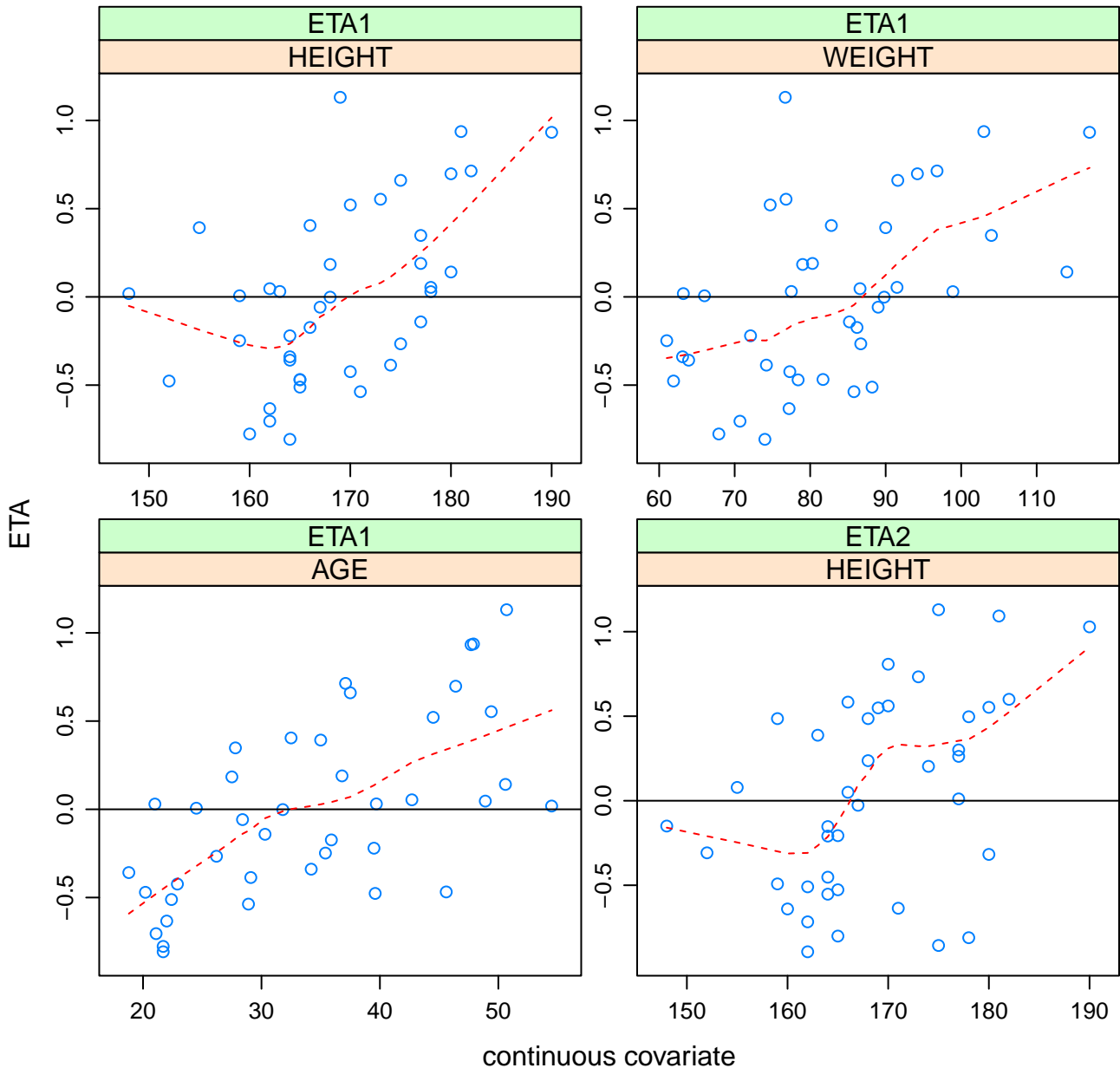
Density of Etas



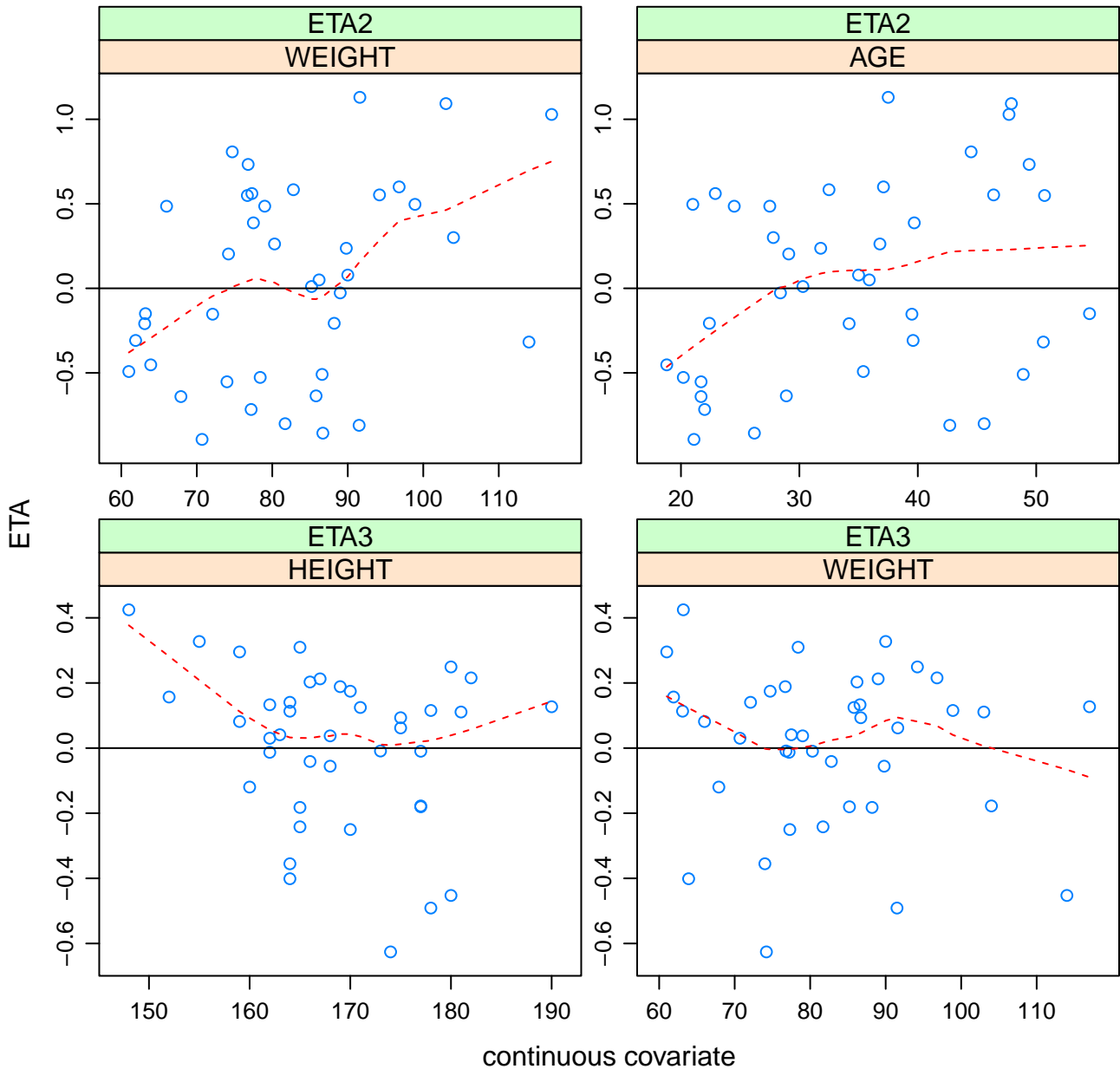
Boxplots of Etas by Categorical Covariate



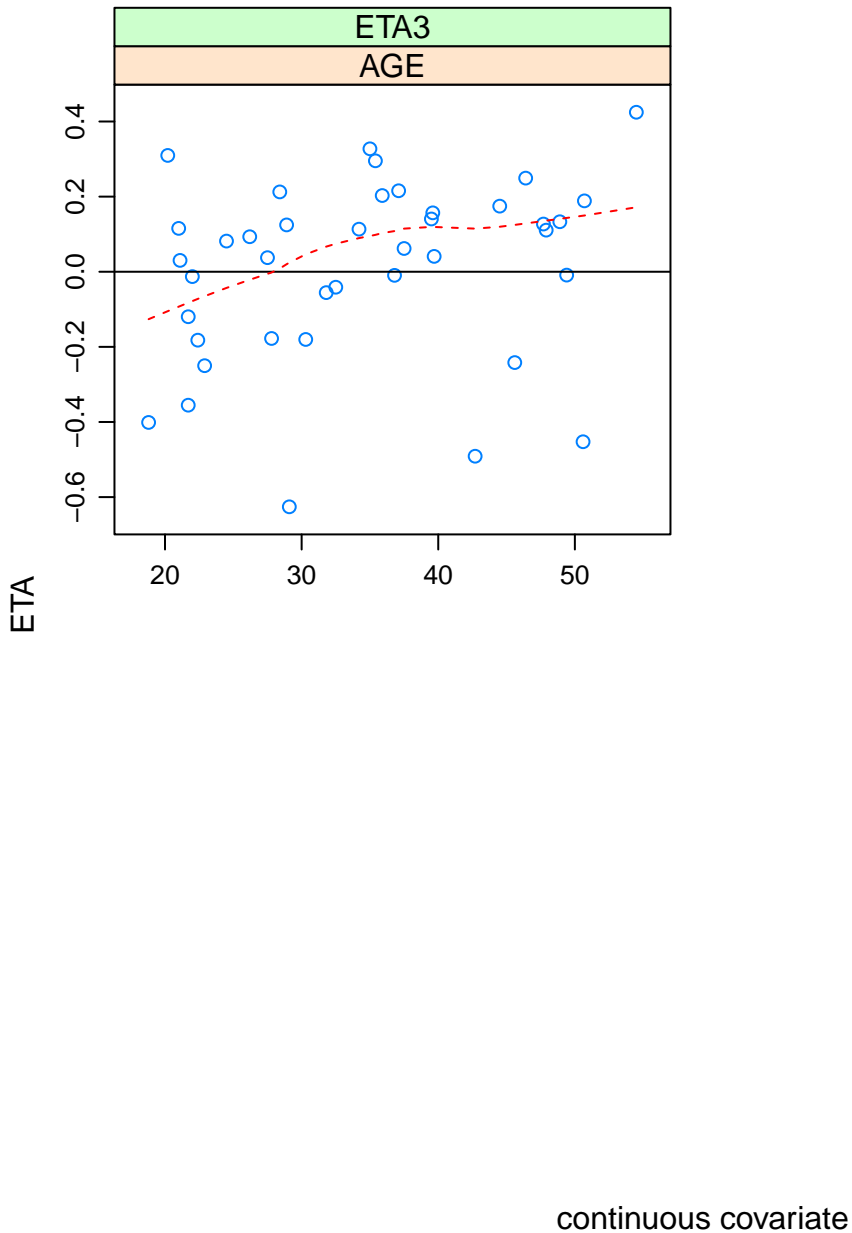
Etas vs. Continuous Covariates



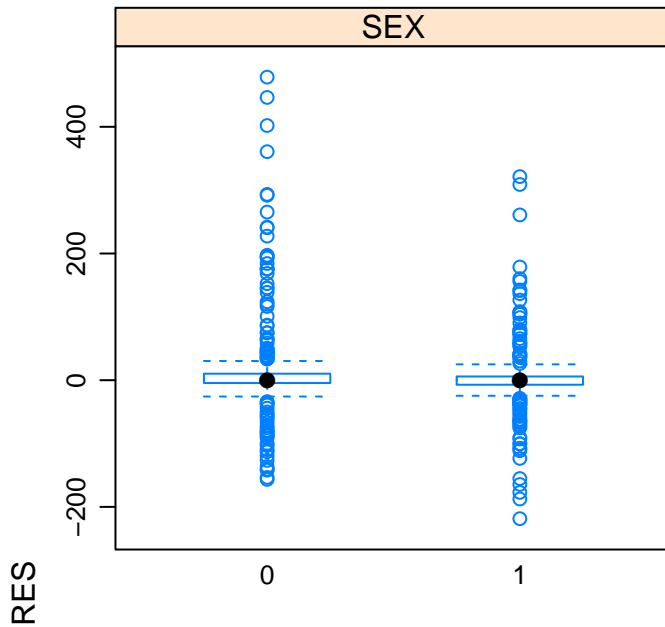
Etas vs. Continuous Covariates



Etas vs. Continuous Covariates

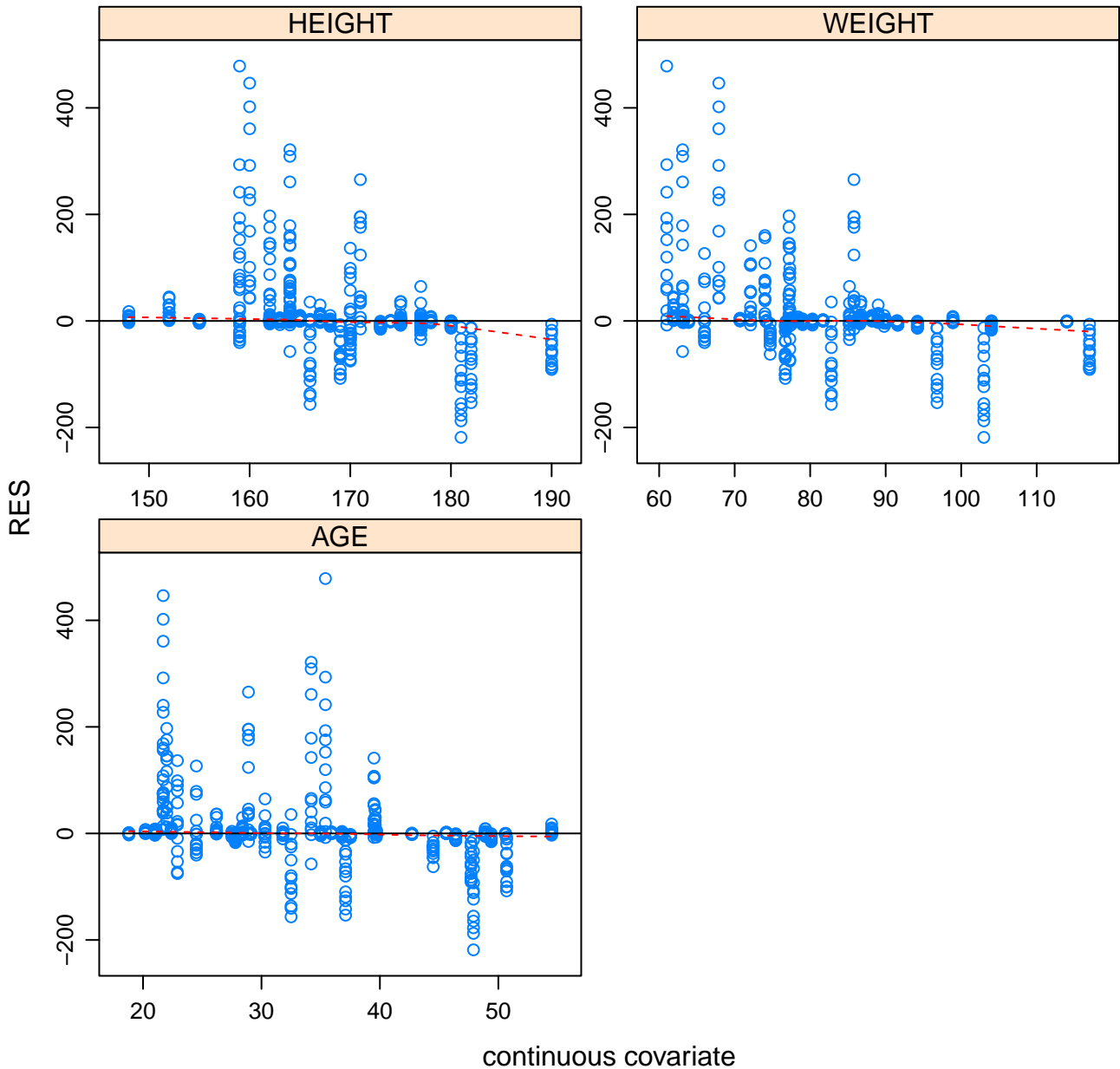


RES vs. Categorical Covariates

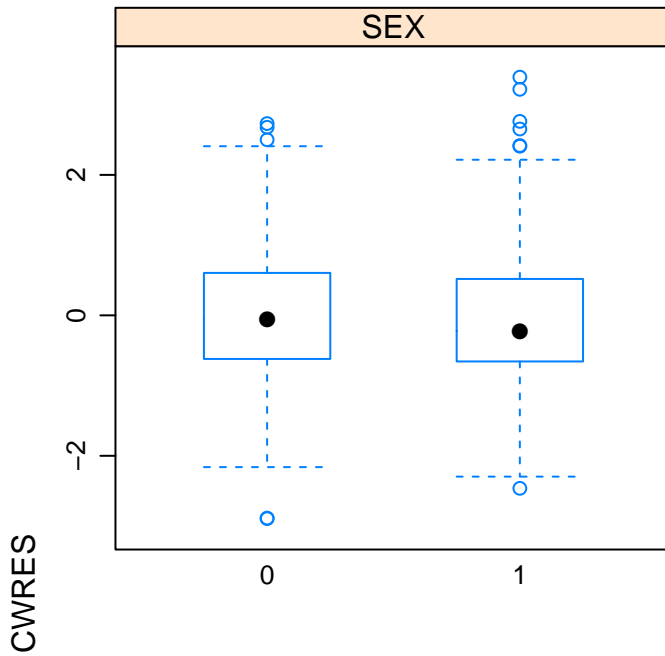


categorical Covariate

RES vs. Continuous Covariates



CWRES vs. Categorical Covariates



categorical Covariate

CWRES vs. Continuous Covariates

CWRES

HEIGHT

2
0
-2

150 160 170 180 190

WEIGHT

2
0
-2

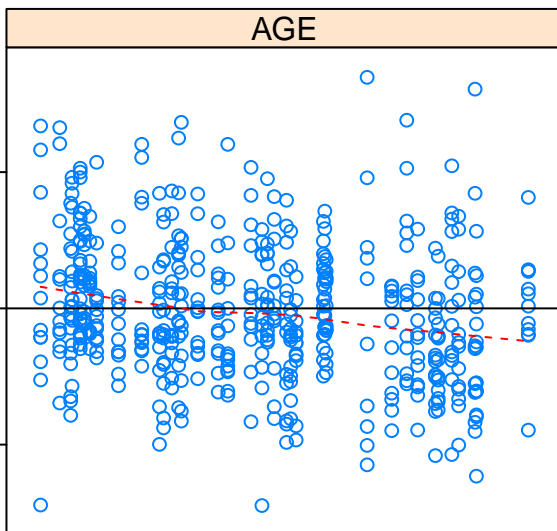
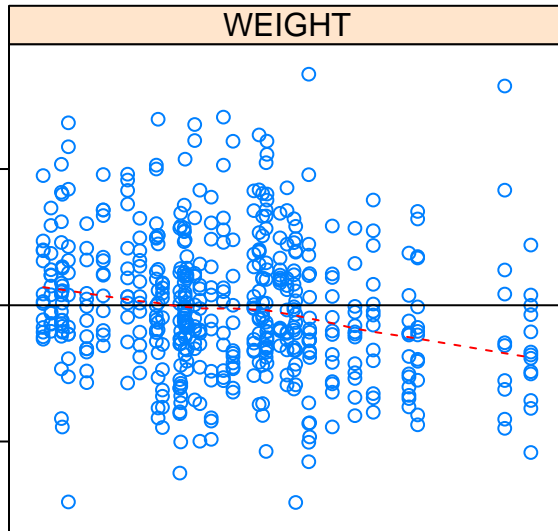
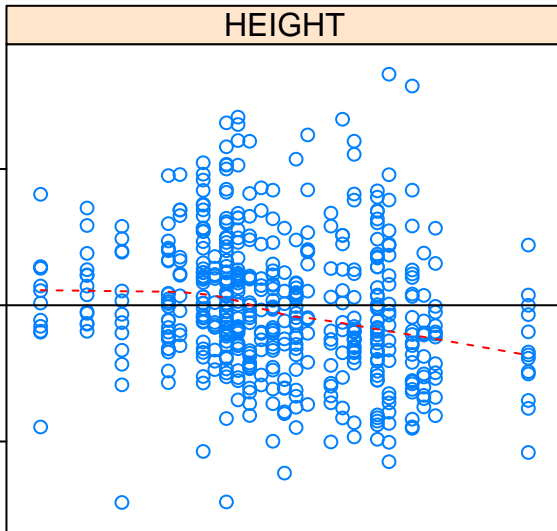
60 70 80 90 100 110

AGE

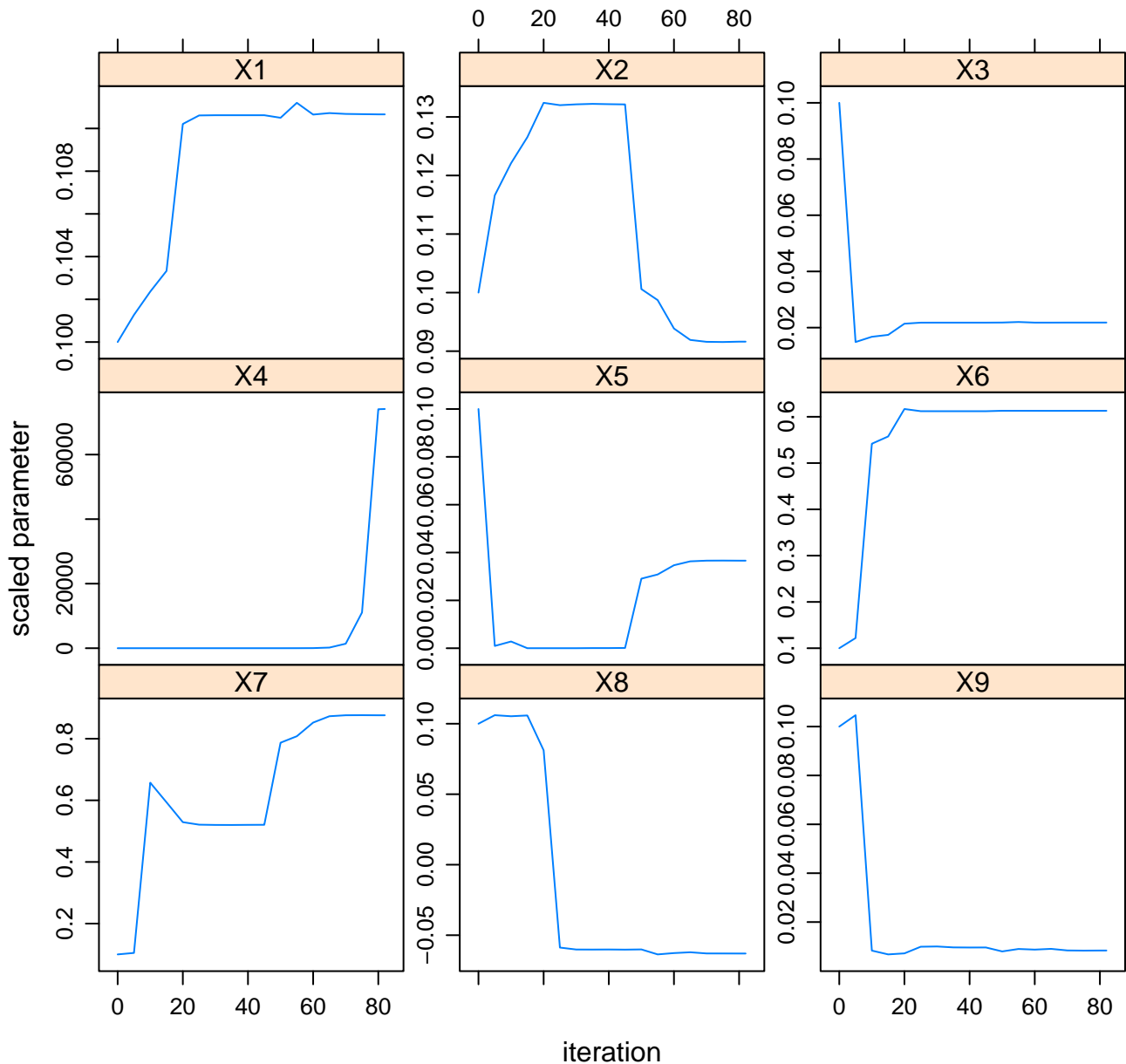
2
0
-2

20 30 40 50

continuous covariate



Model 1003 parameter search



Model 1003 gradient search

