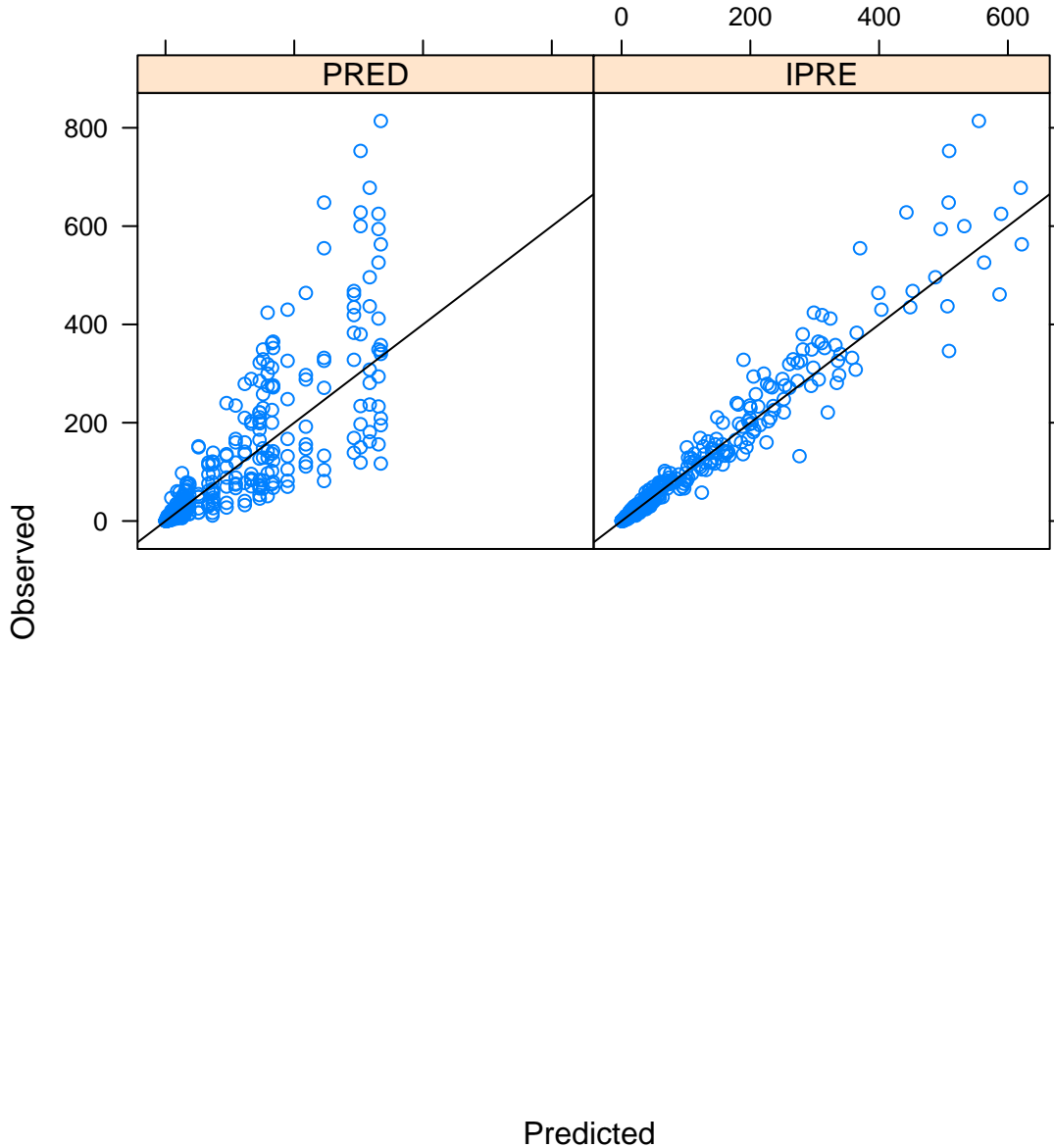


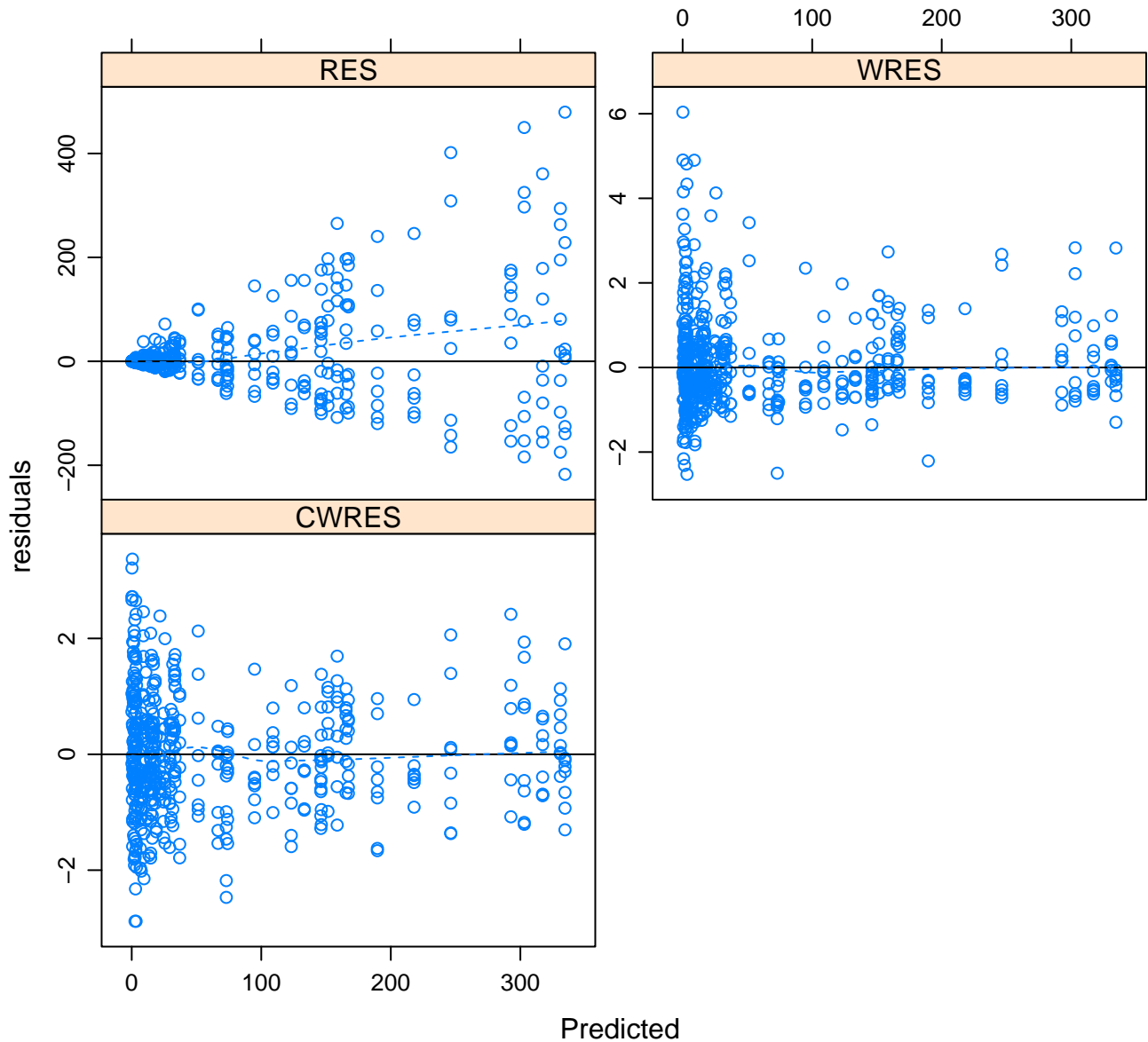
Model 1004

Observed vs. Predicted for all data



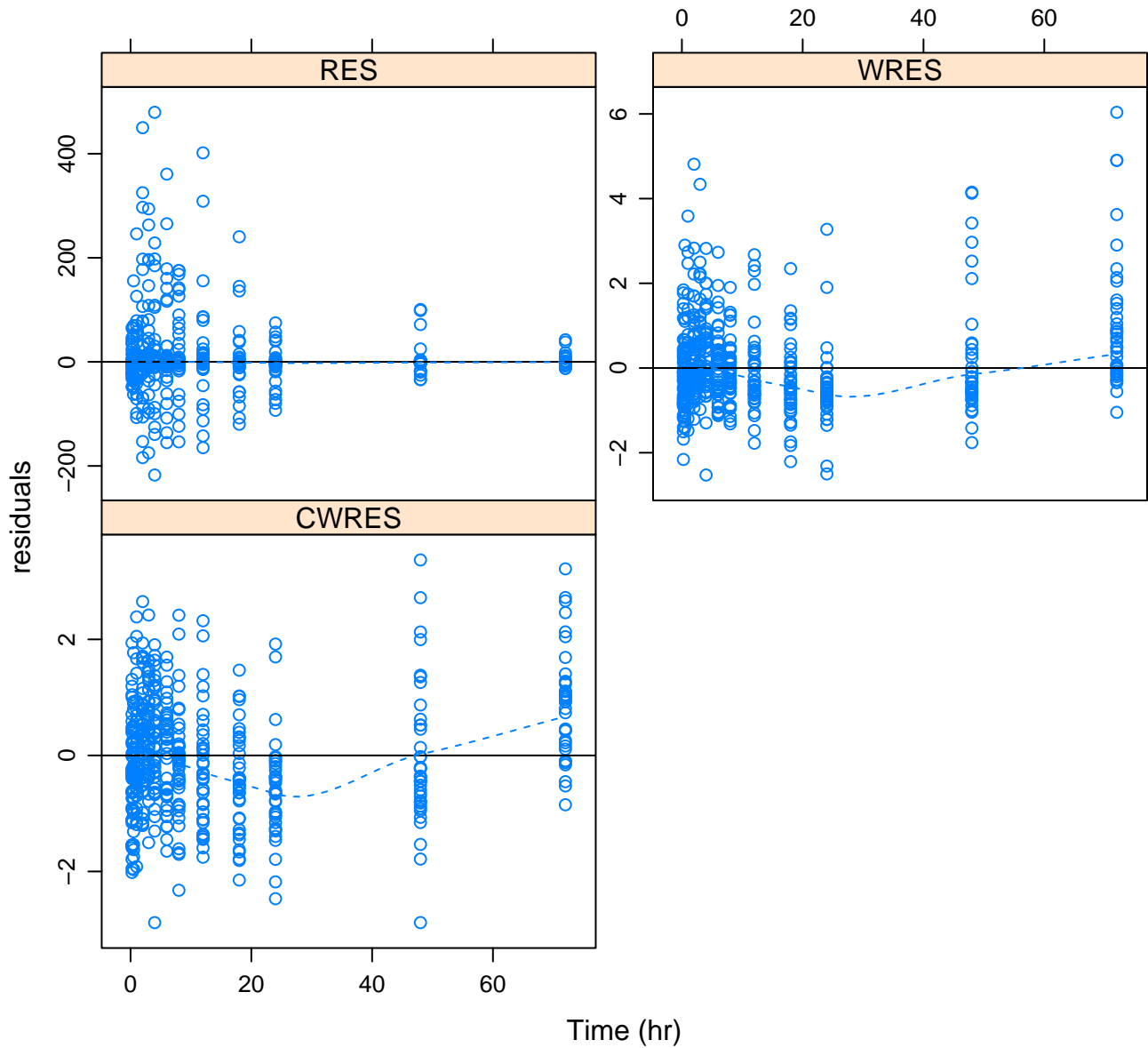
Model 1004

Residuals vs. Predicted for all data



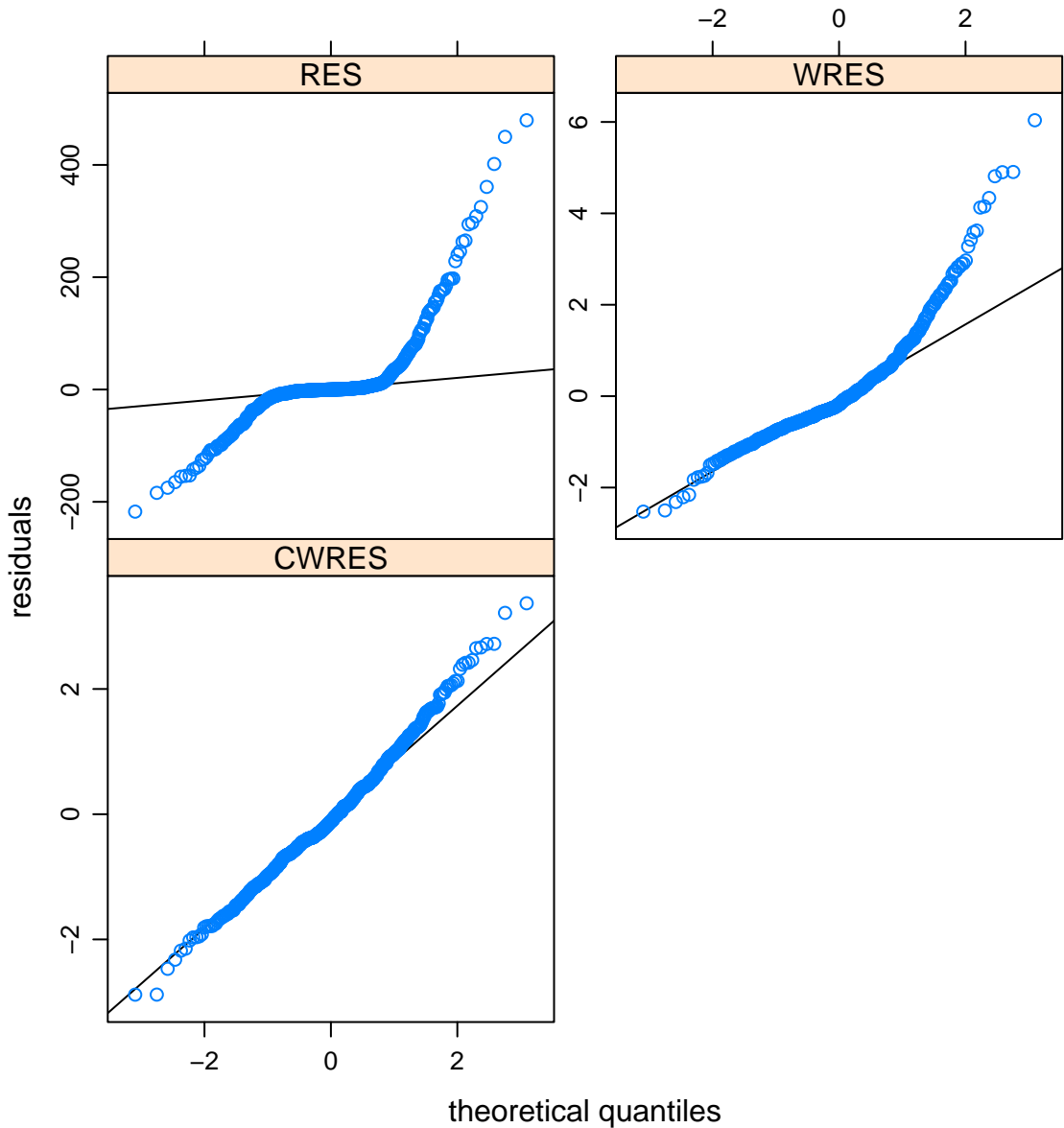
Model 1004

Residuals vs. Time for all data



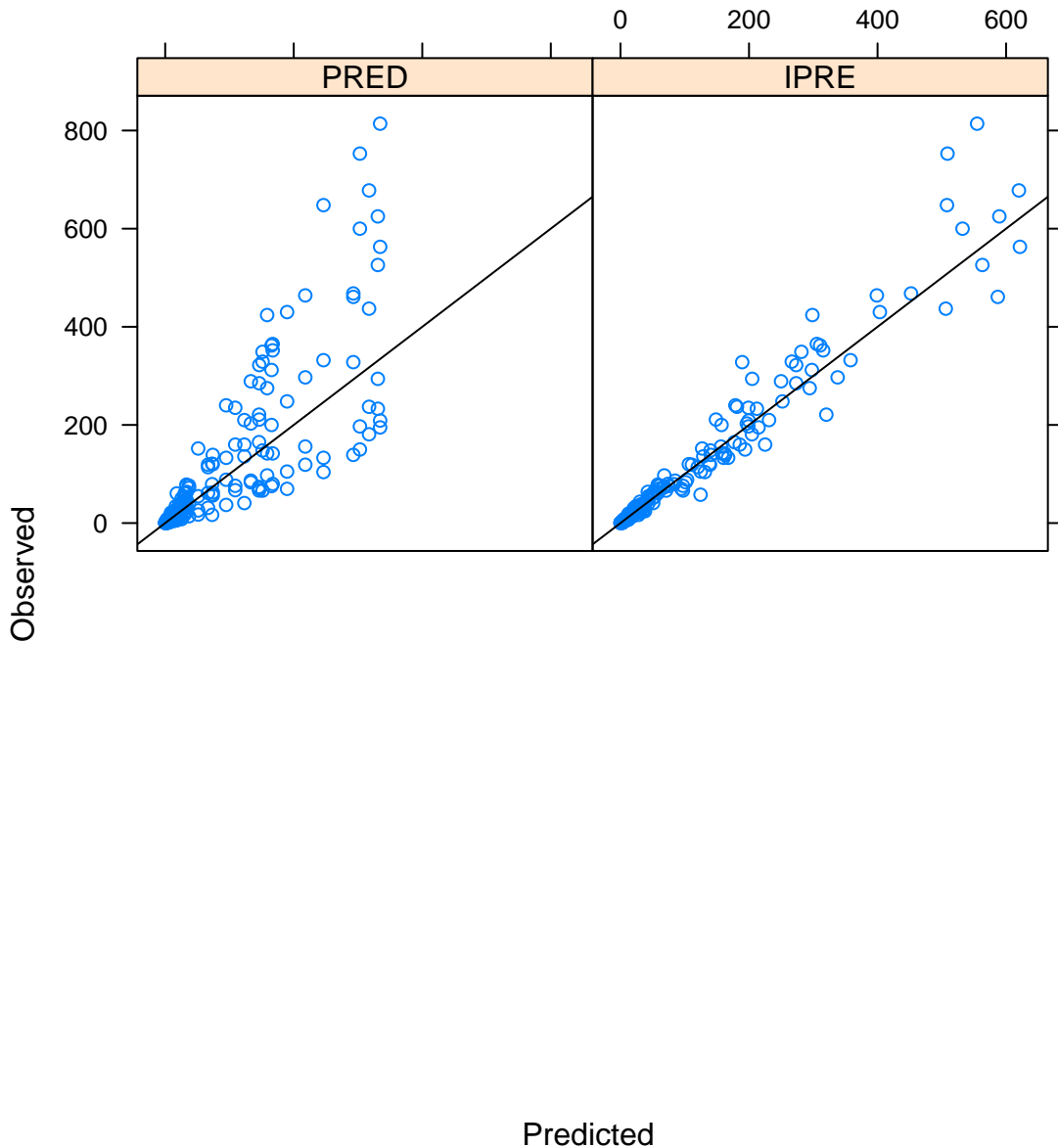
Model 1004

Normal Q-Q Plot Residuals for all data



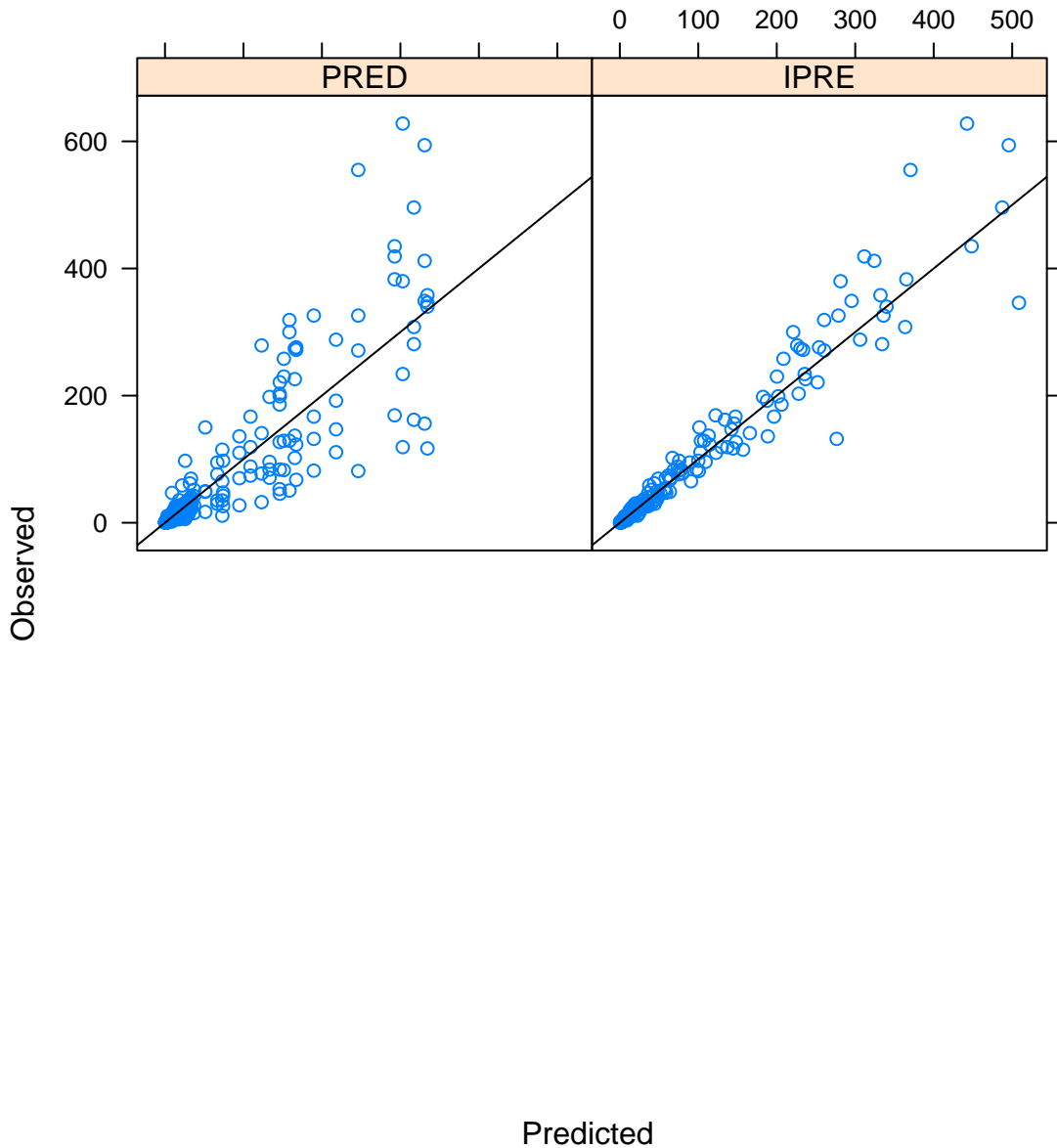
Model 1004

Observed vs. Predicted for female data



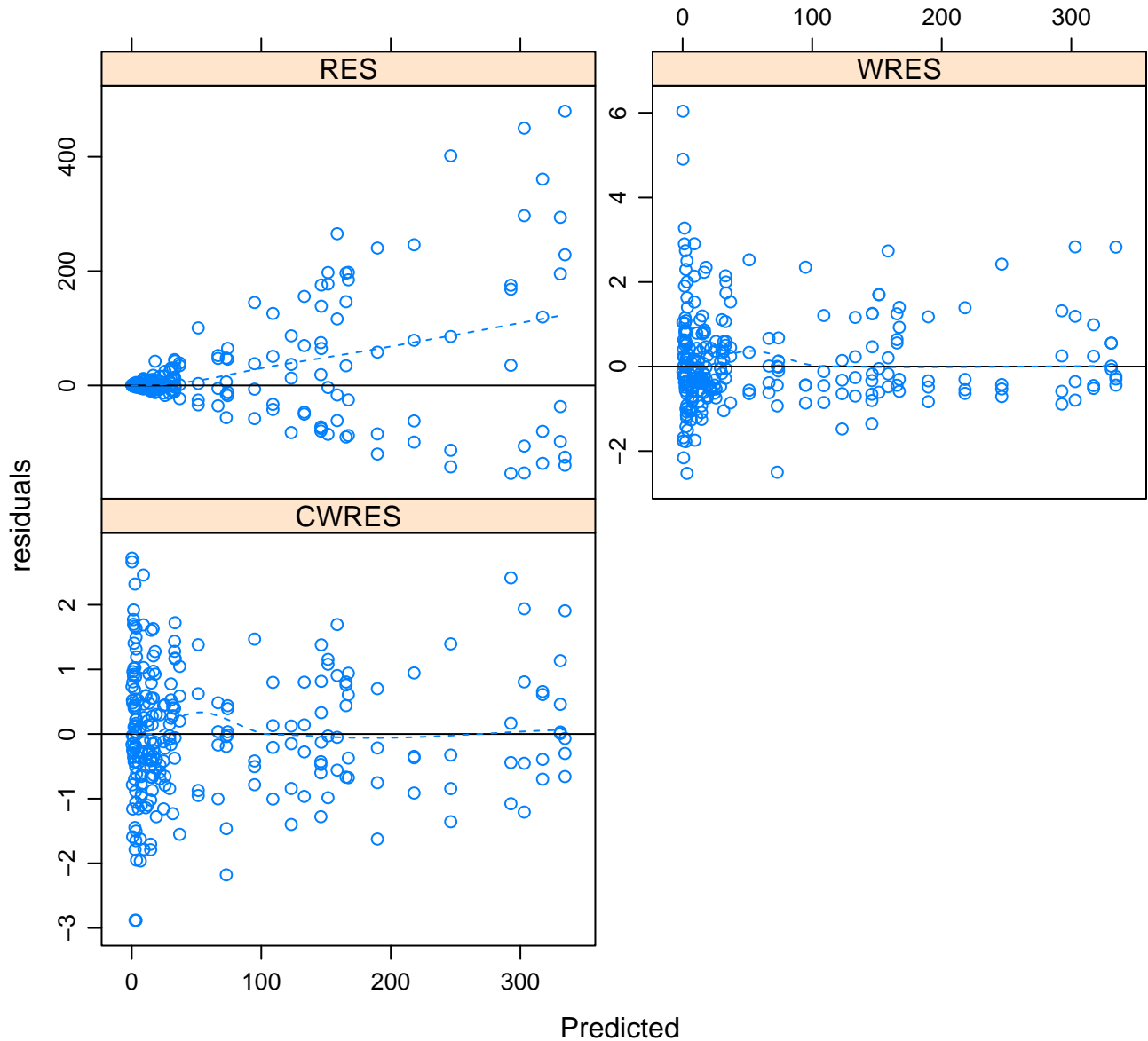
Model 1004

Observed vs. Predicted for male data

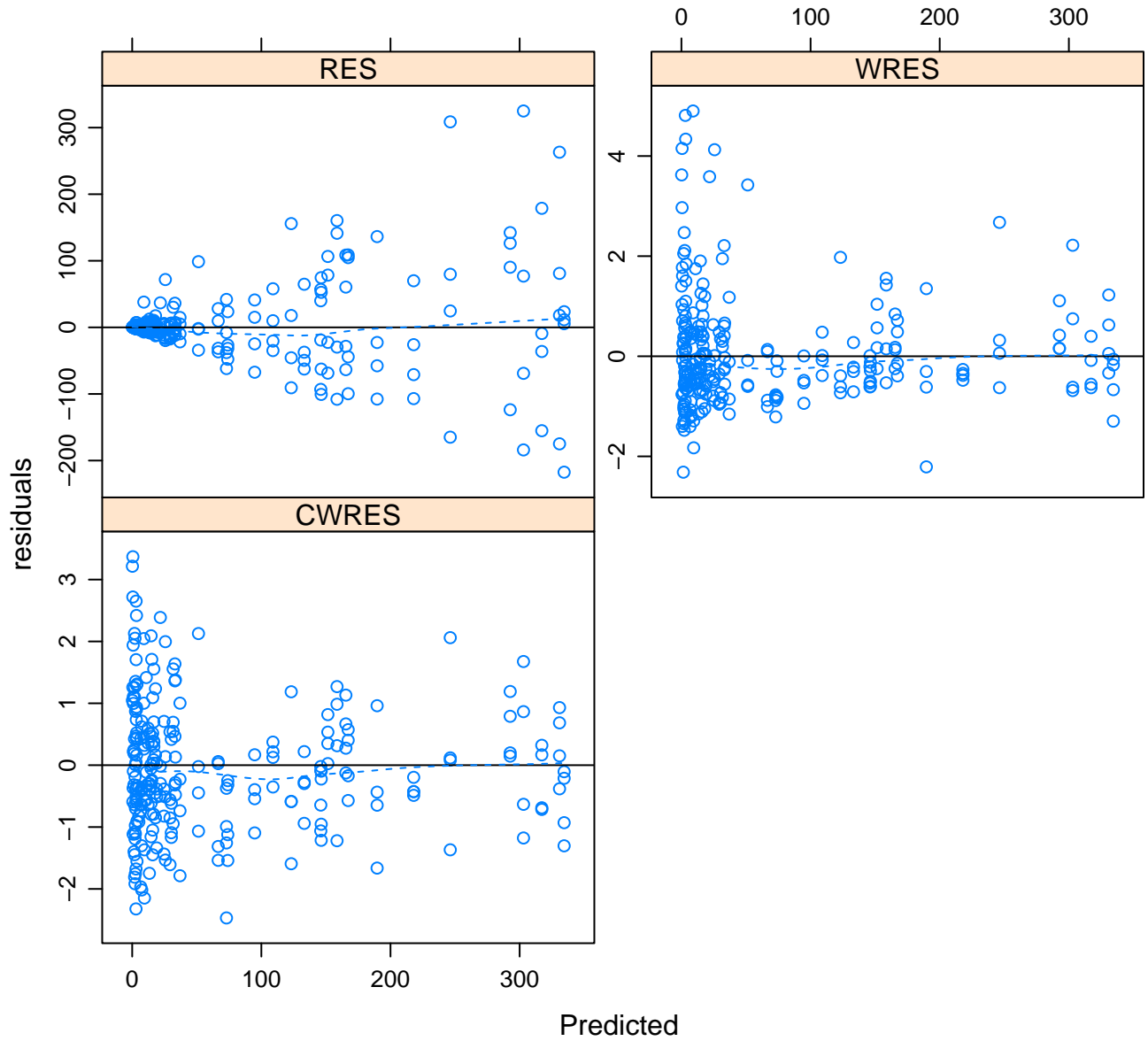


Model 1004

Residuals vs. Predicted for female data

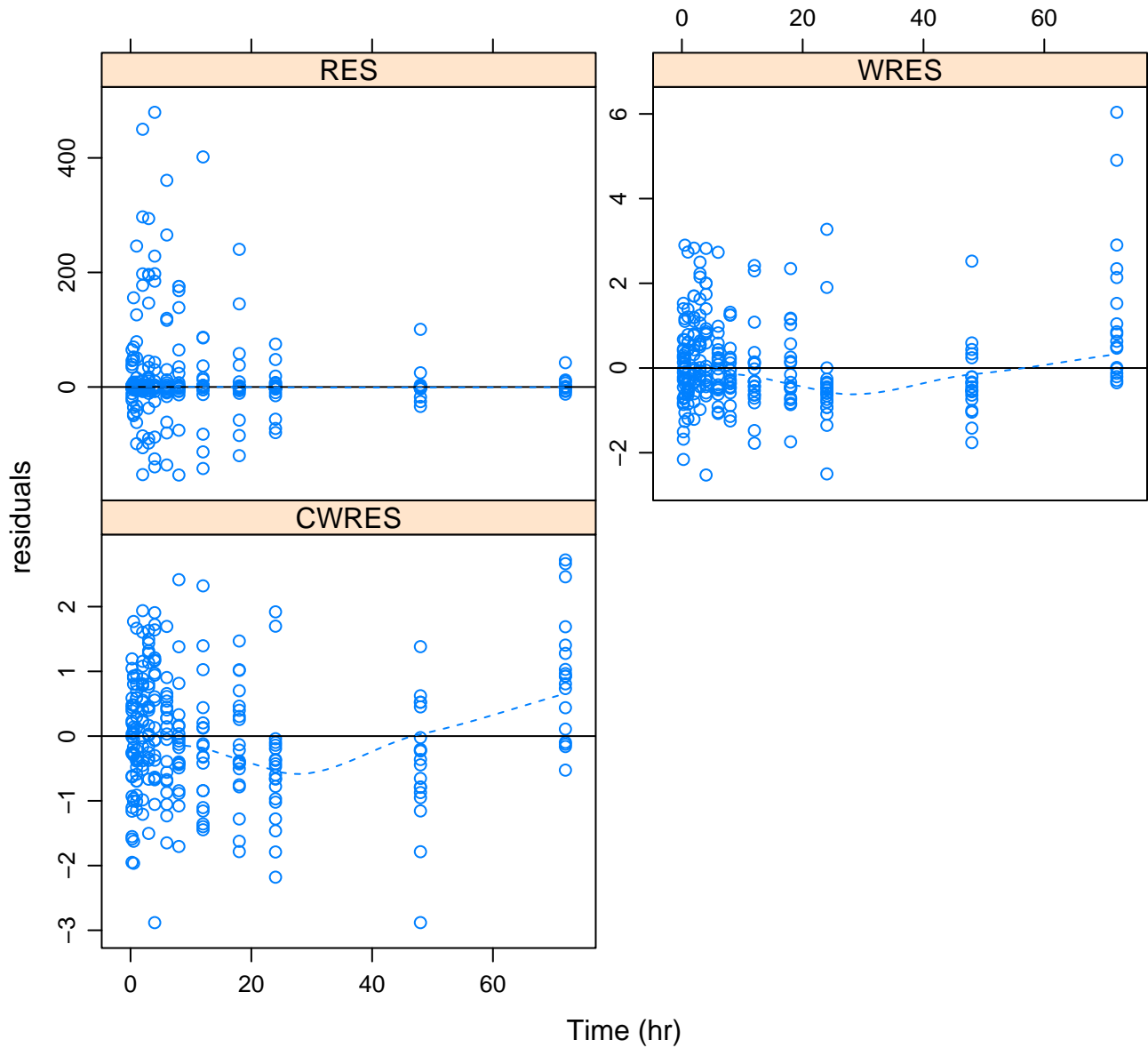


Model 1004
Residuals vs. Predicted for male data



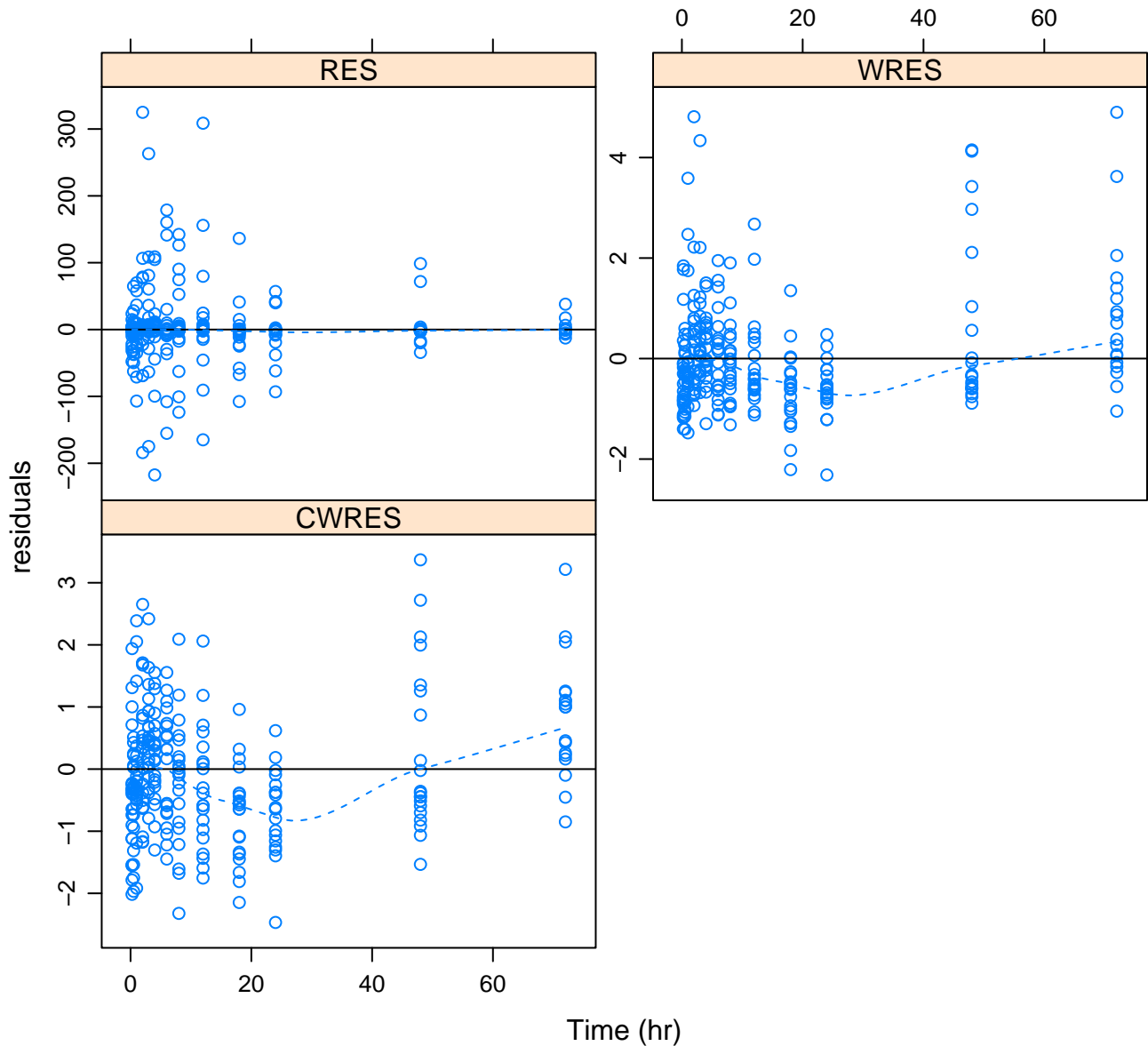
Model 1004

Residuals vs. Time for female data



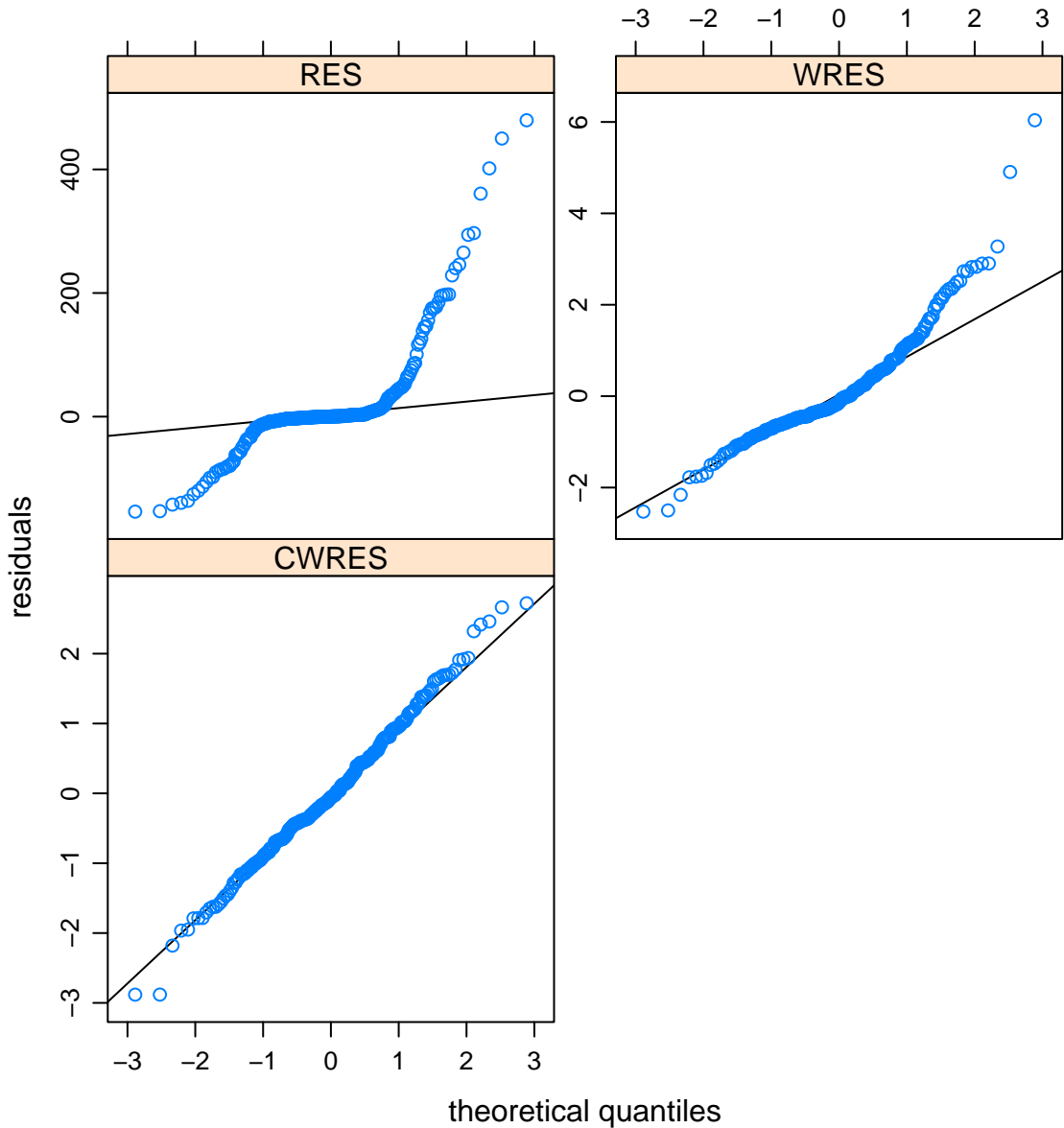
Model 1004

Residuals vs. Time for male data



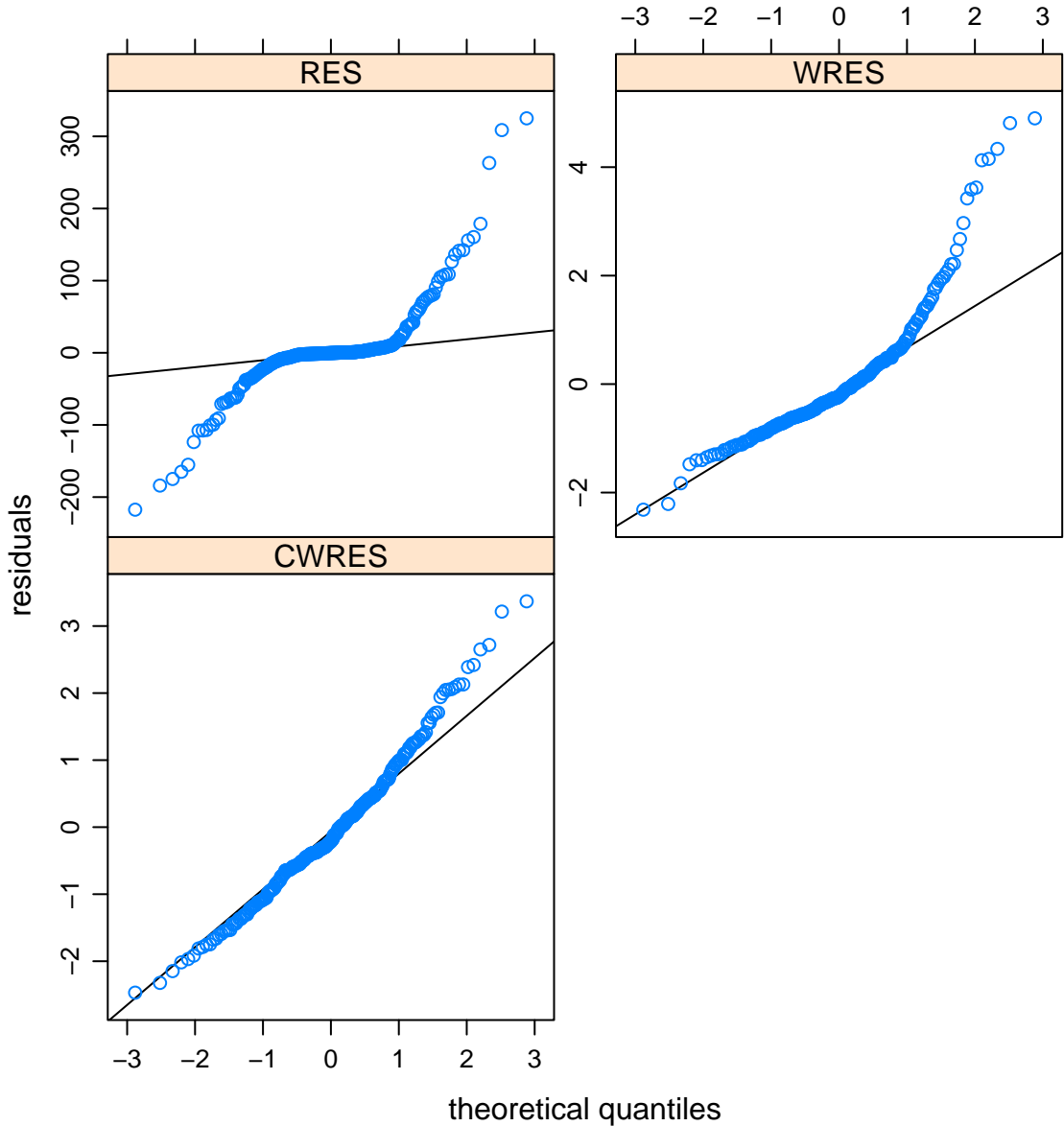
Model 1004

Normal Q-Q Plot Residuals for female data

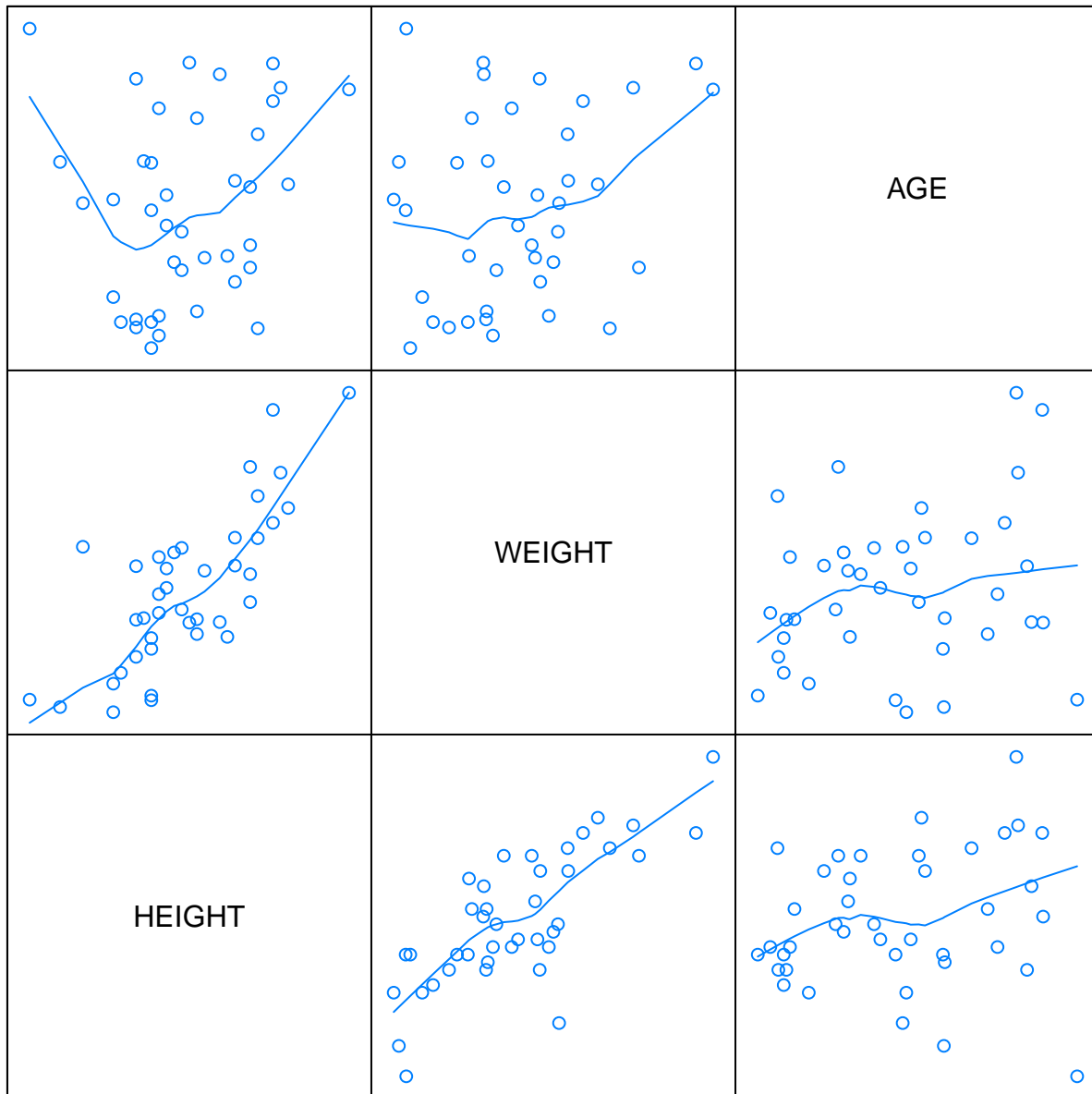


Model 1004

Normal Q-Q Plot Residuals for male data



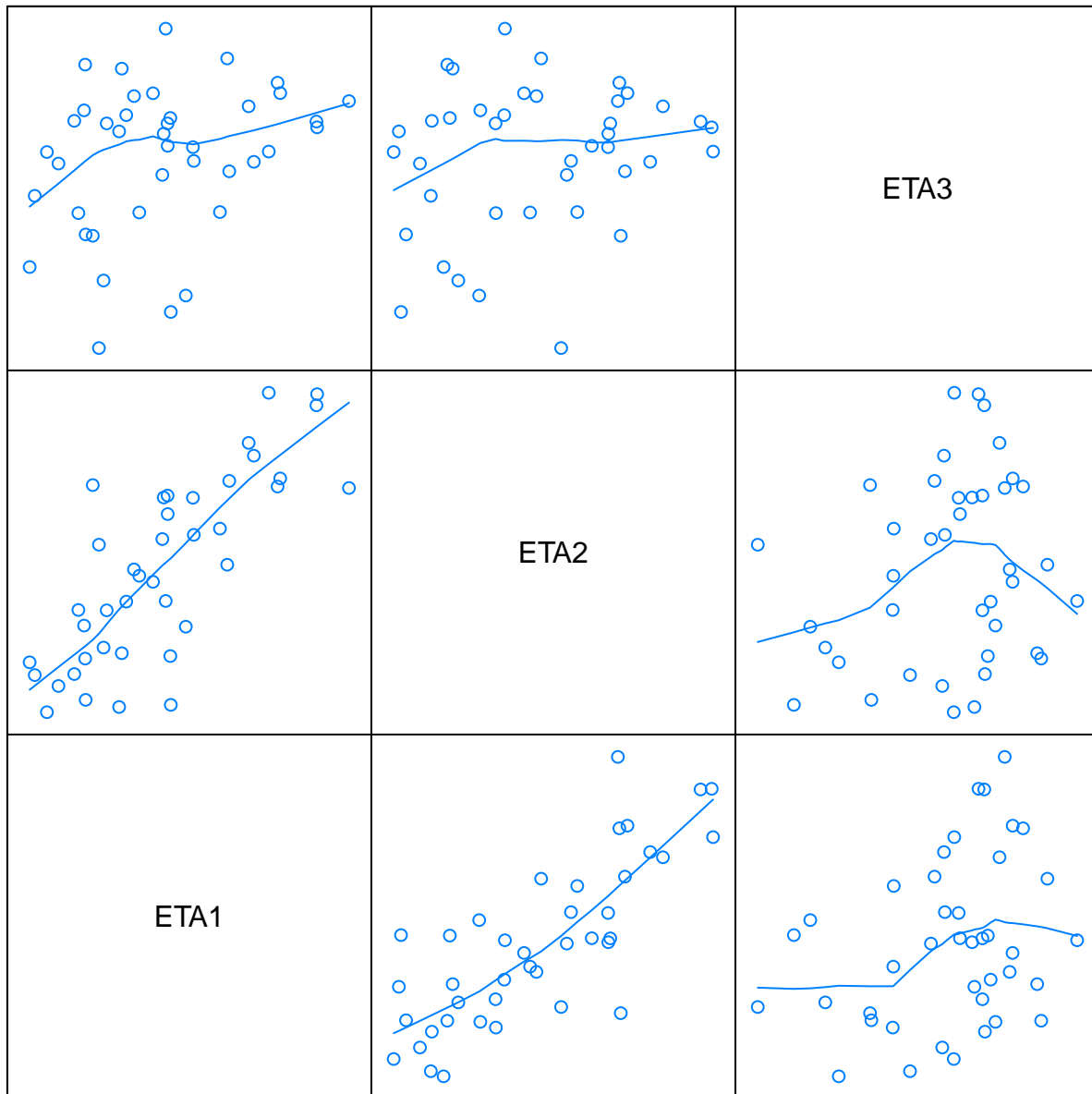
Covariate Scatterplots



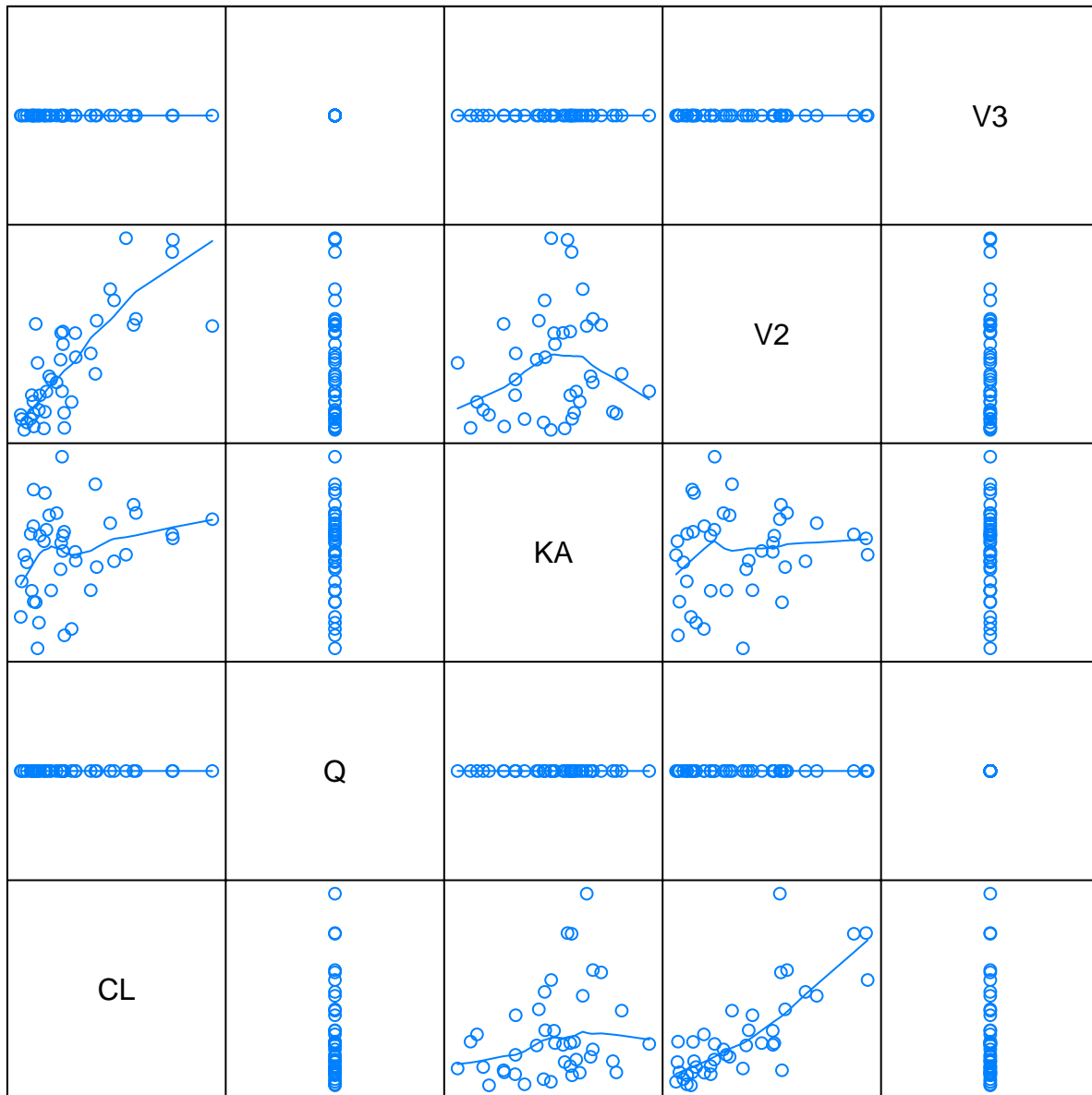
Continuous Covariates vs. Categorical Covariates



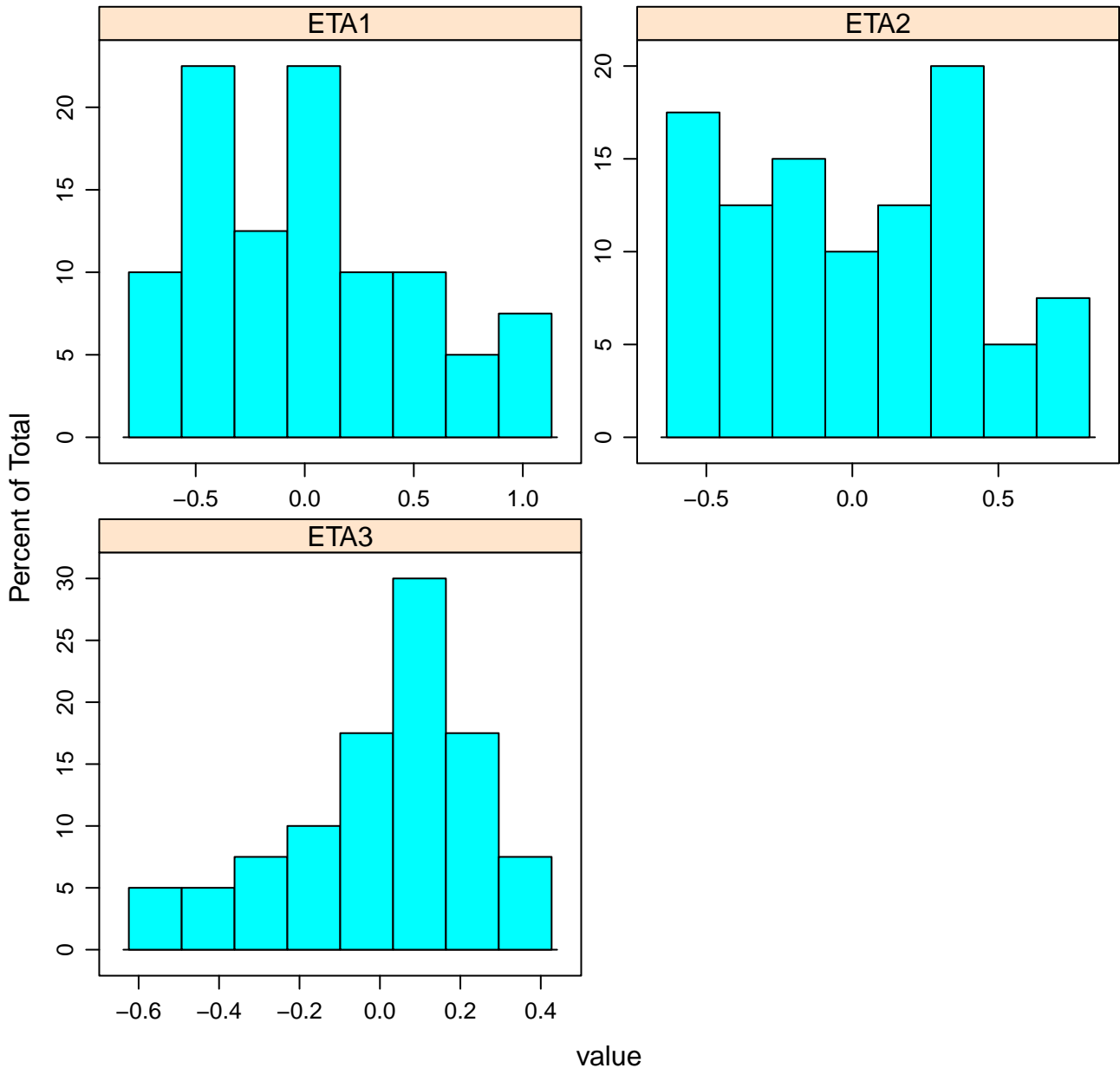
ETA Scatterplots



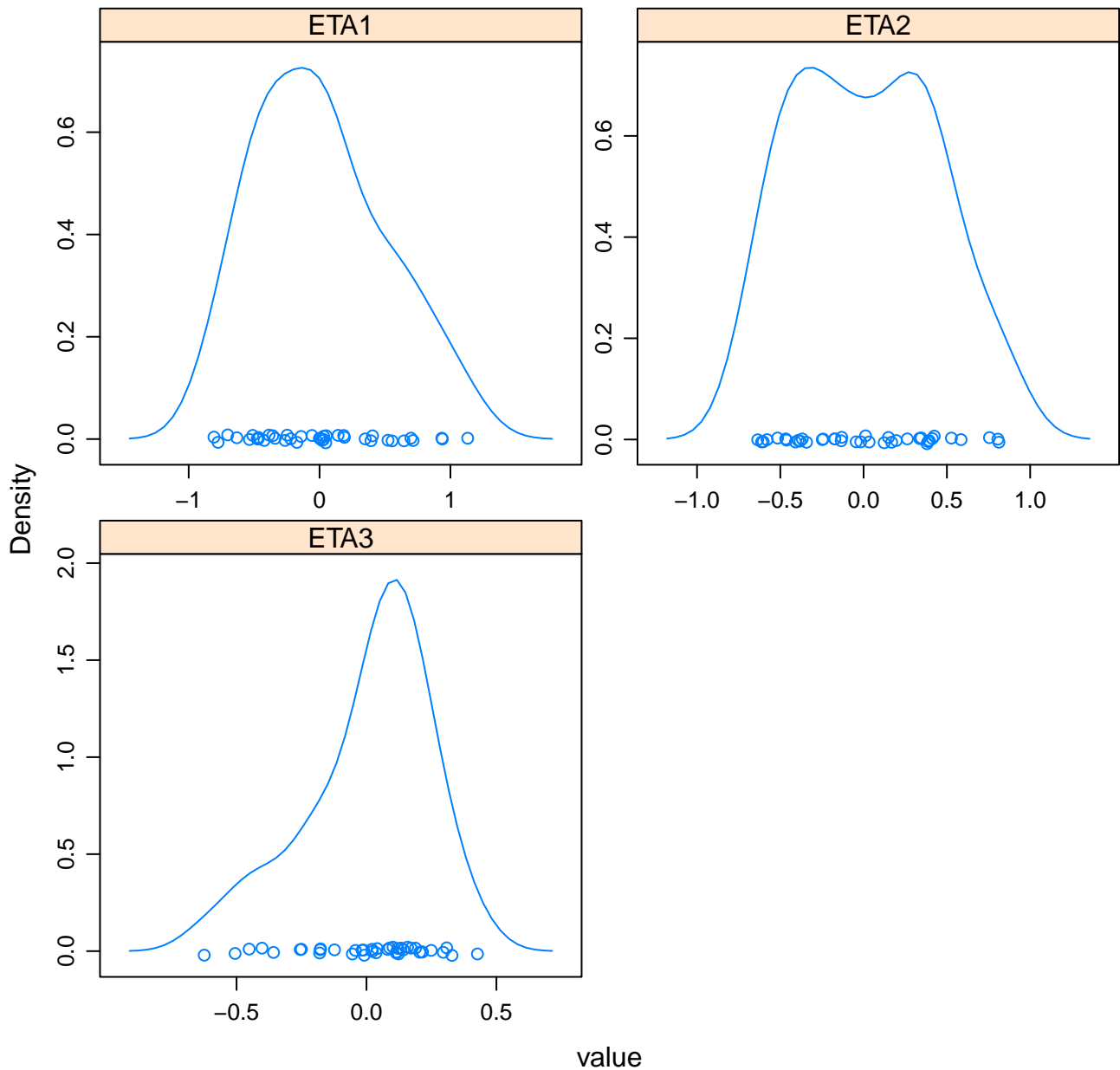
Parameter Scatterplots



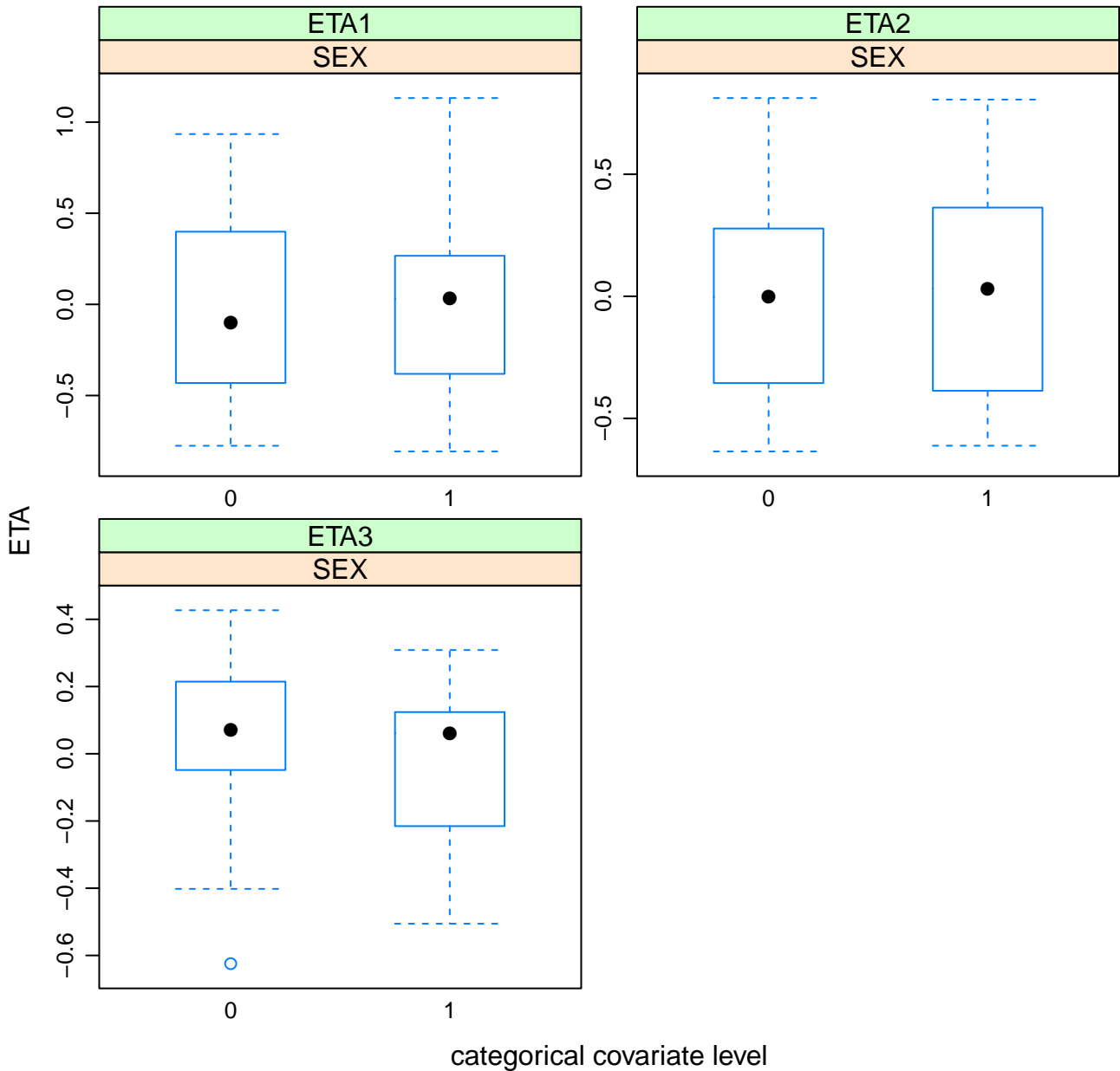
Histograms of Etas



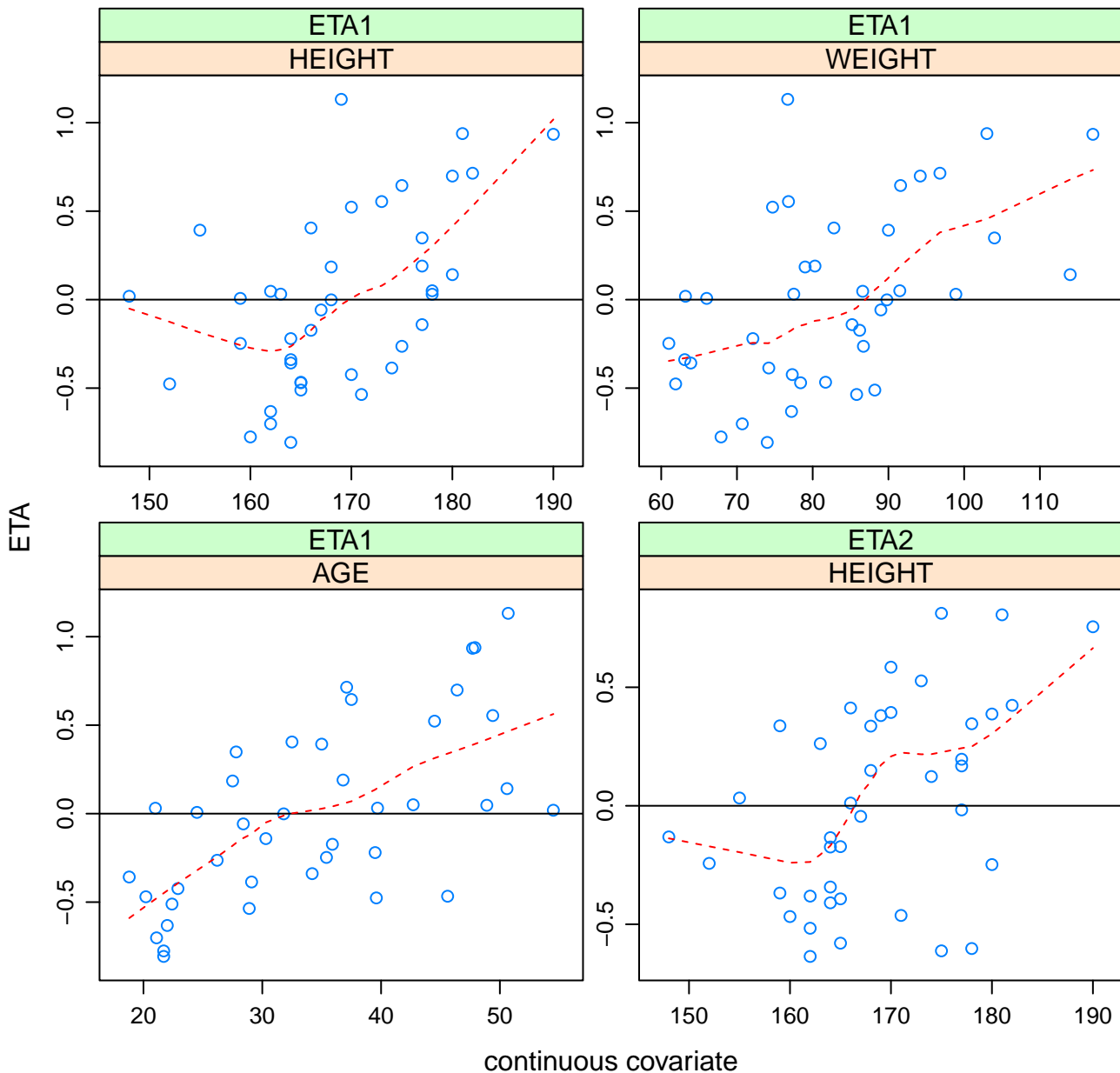
Density of Etas



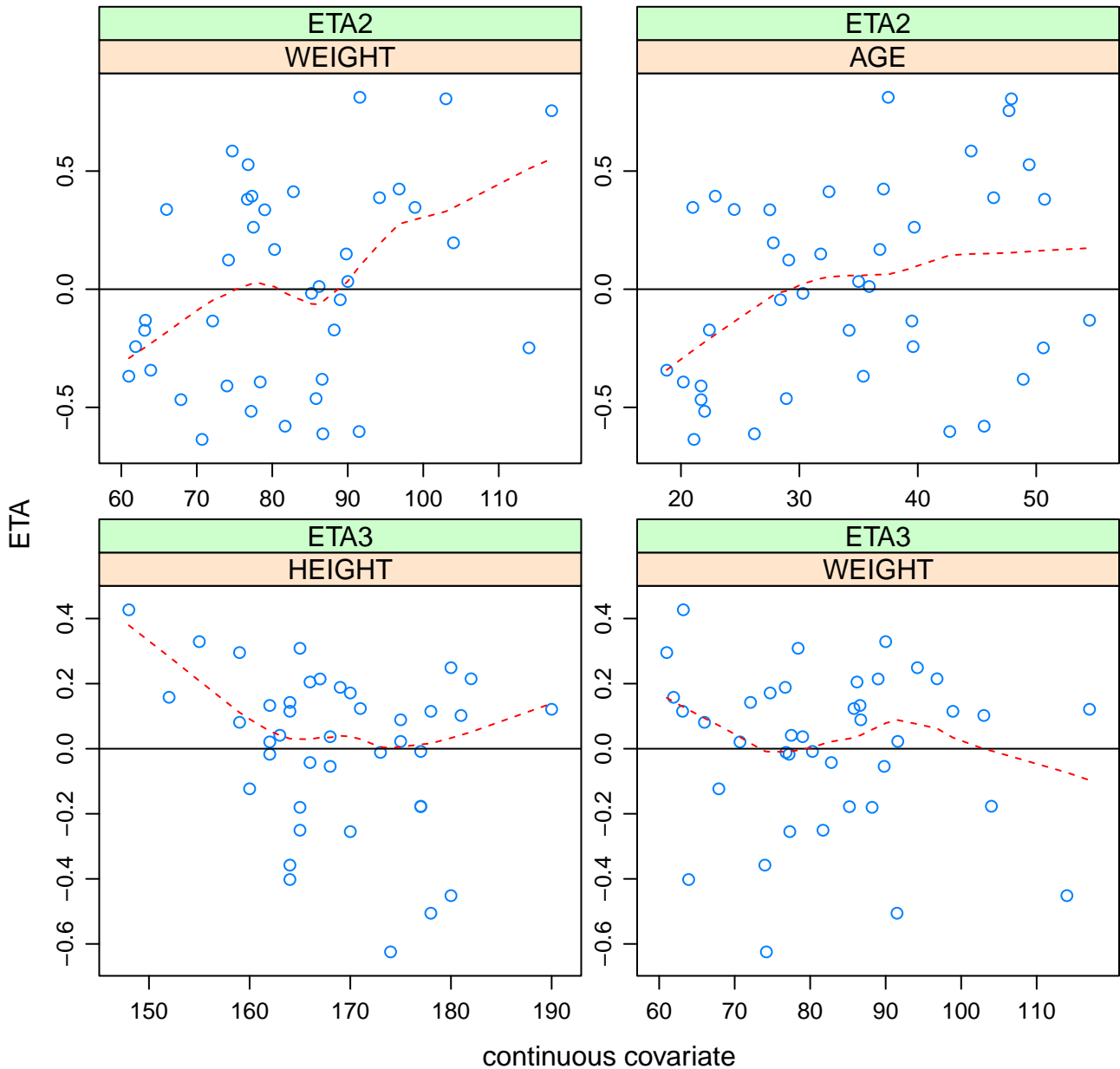
Boxplots of Etas by Categorical Covariate



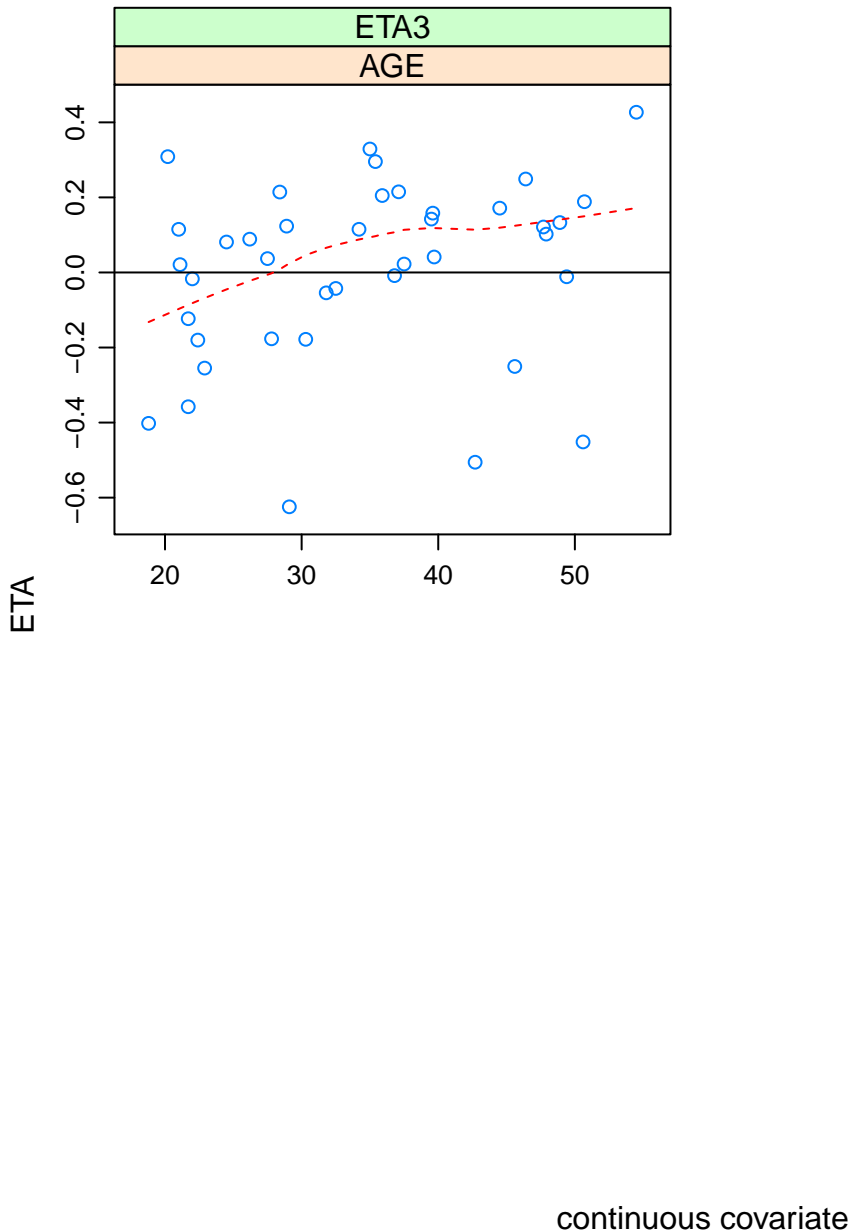
Etas vs. Continuous Covariates



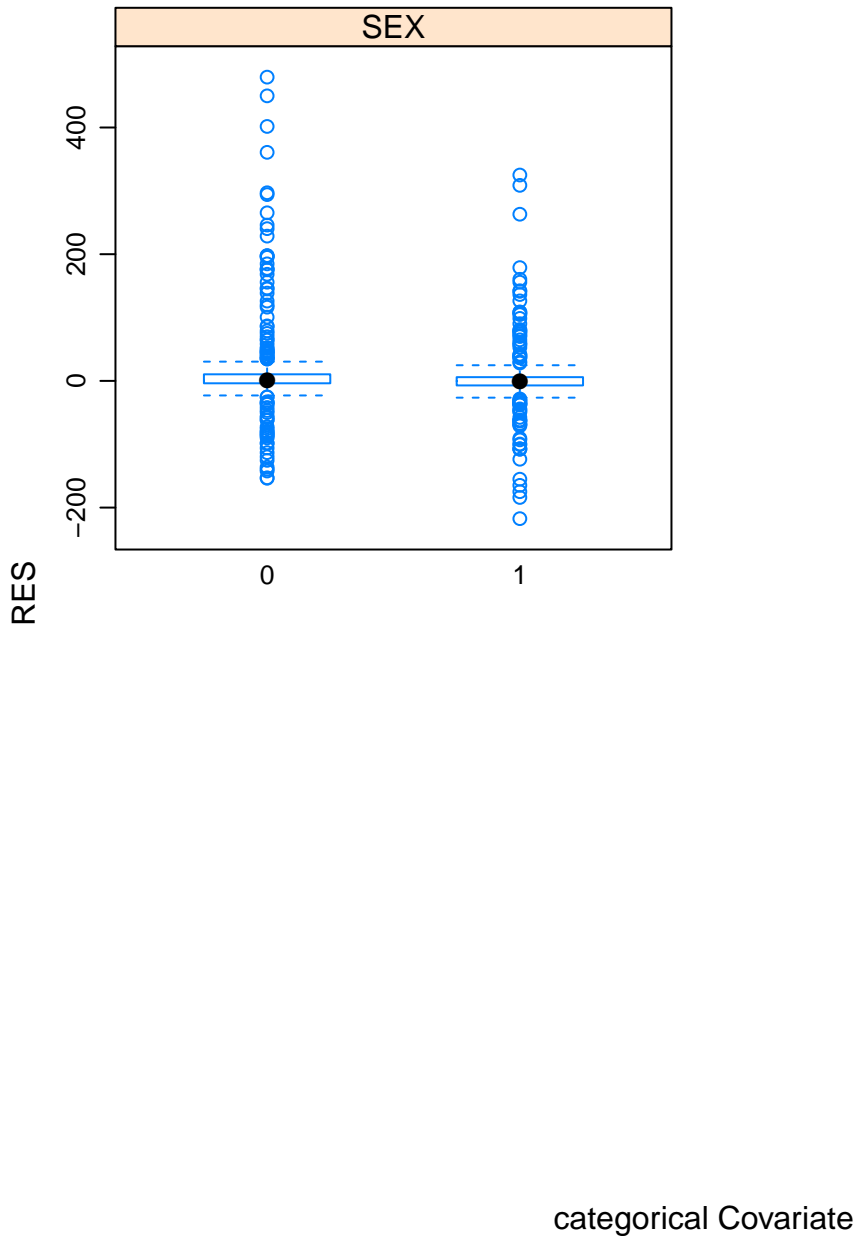
Etas vs. Continuous Covariates



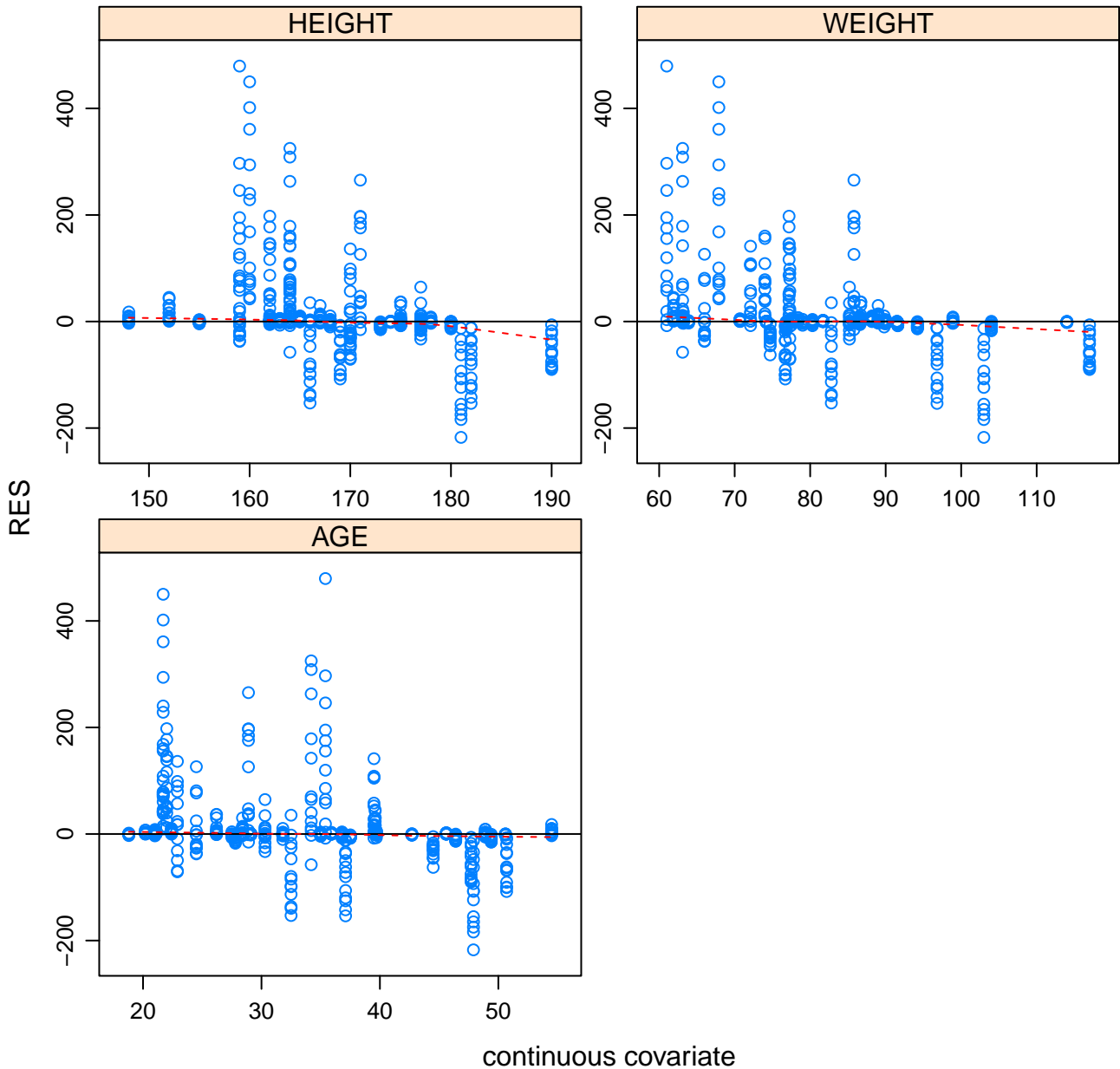
Etas vs. Continuous Covariates



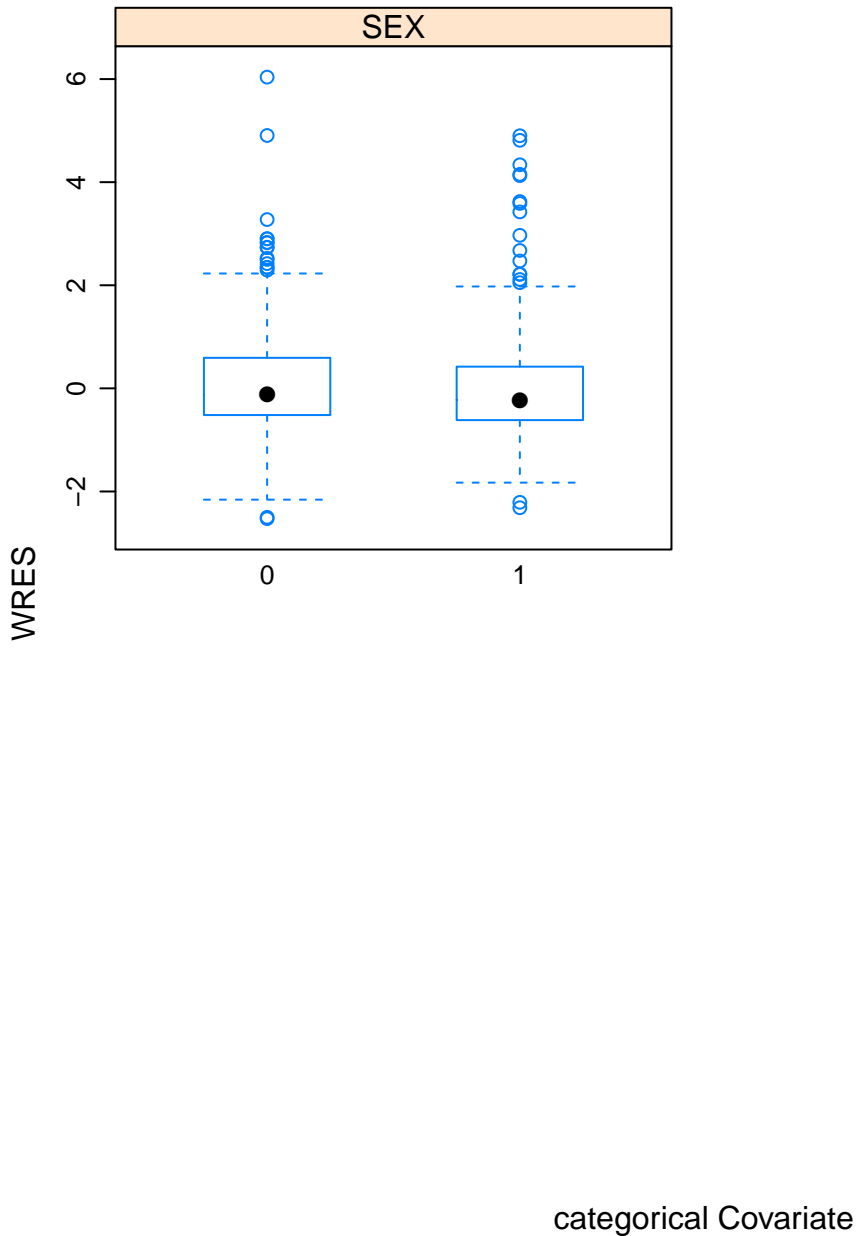
RES vs. Categorical Covariates



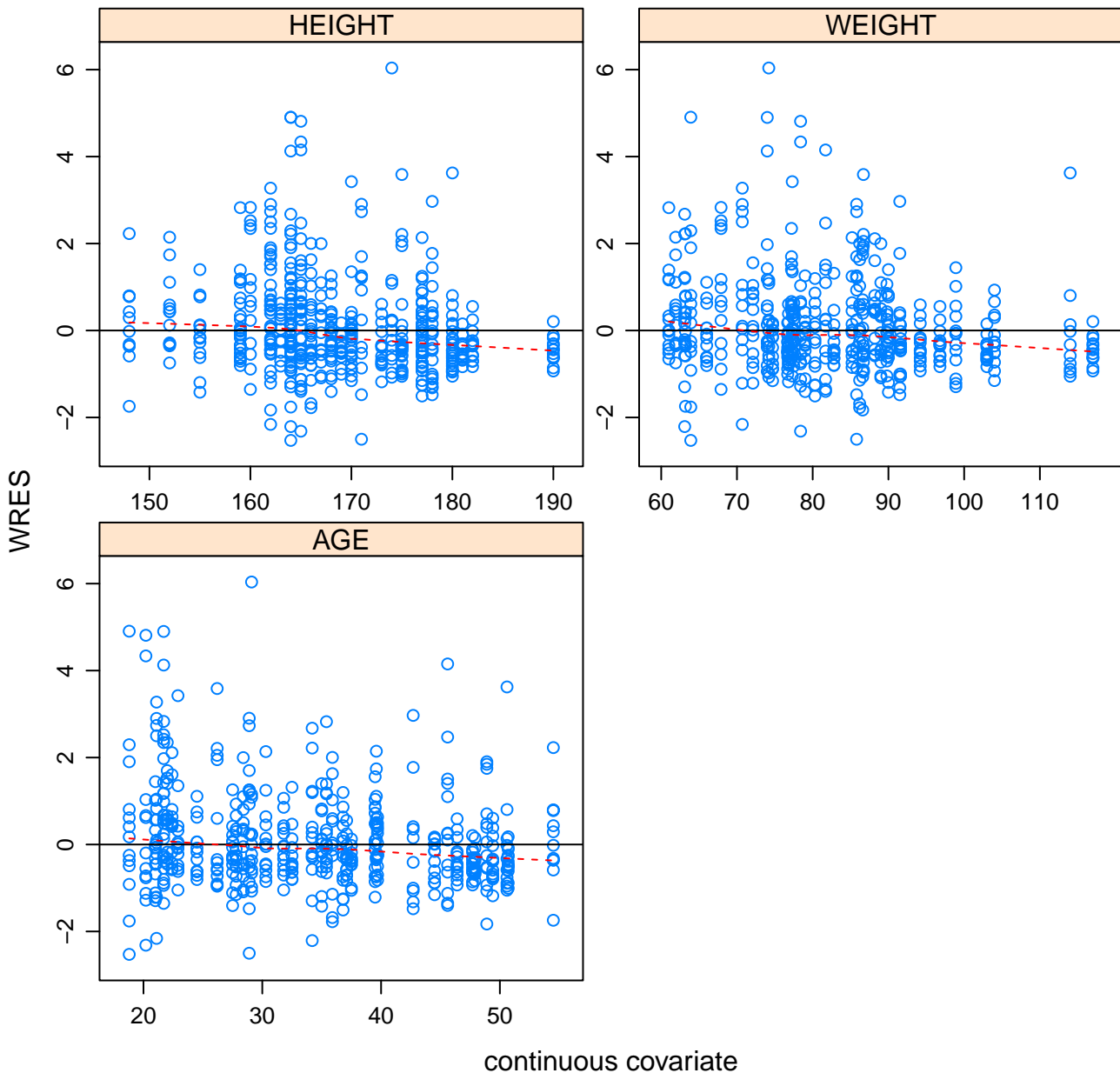
RES vs. Continuous Covariates



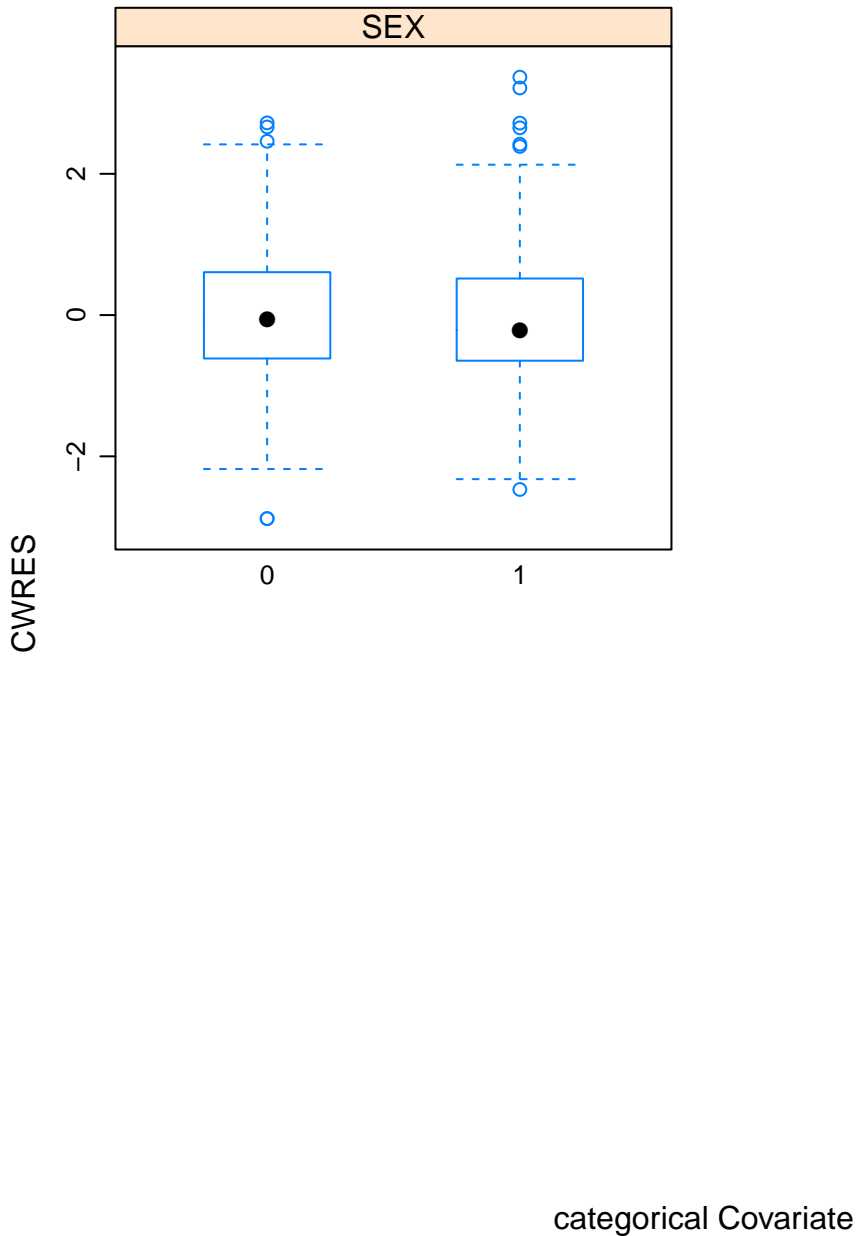
WRES vs. Categorical Covariates



WRES vs. Continuous Covariates



CWRES vs. Categorical Covariates



CWRES vs. Continuous Covariates

CWRES

HEIGHT

2
0
-2

150 160 170 180 190

WEIGHT

2
0
-2

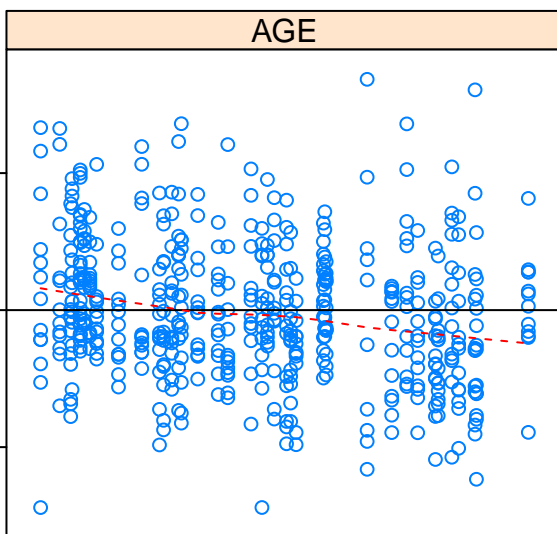
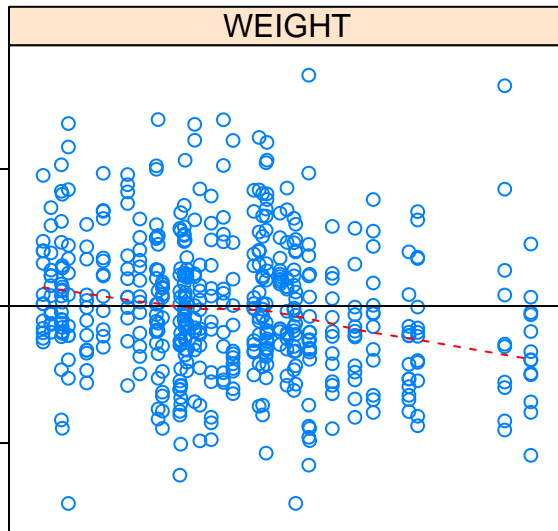
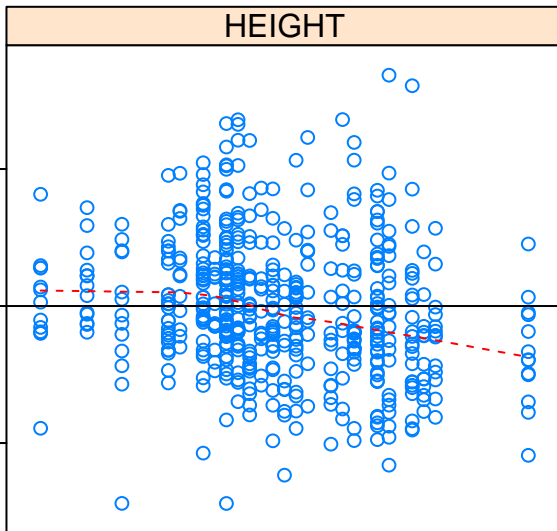
60 70 80 90 100 110

AGE

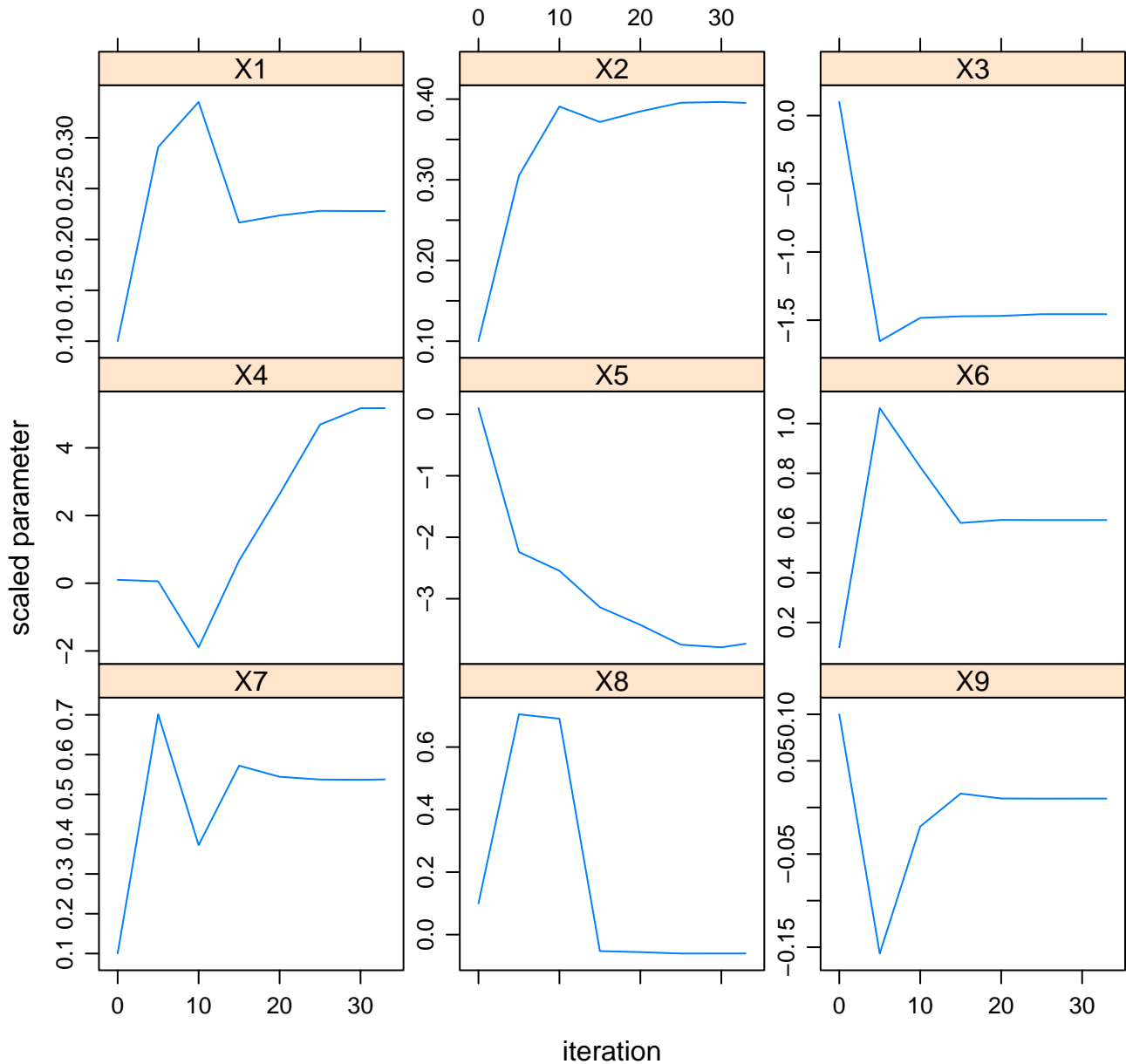
2
0
-2

20 30 40 50

continuous covariate



Model 1004 parameter search



Model 1004 gradient search

