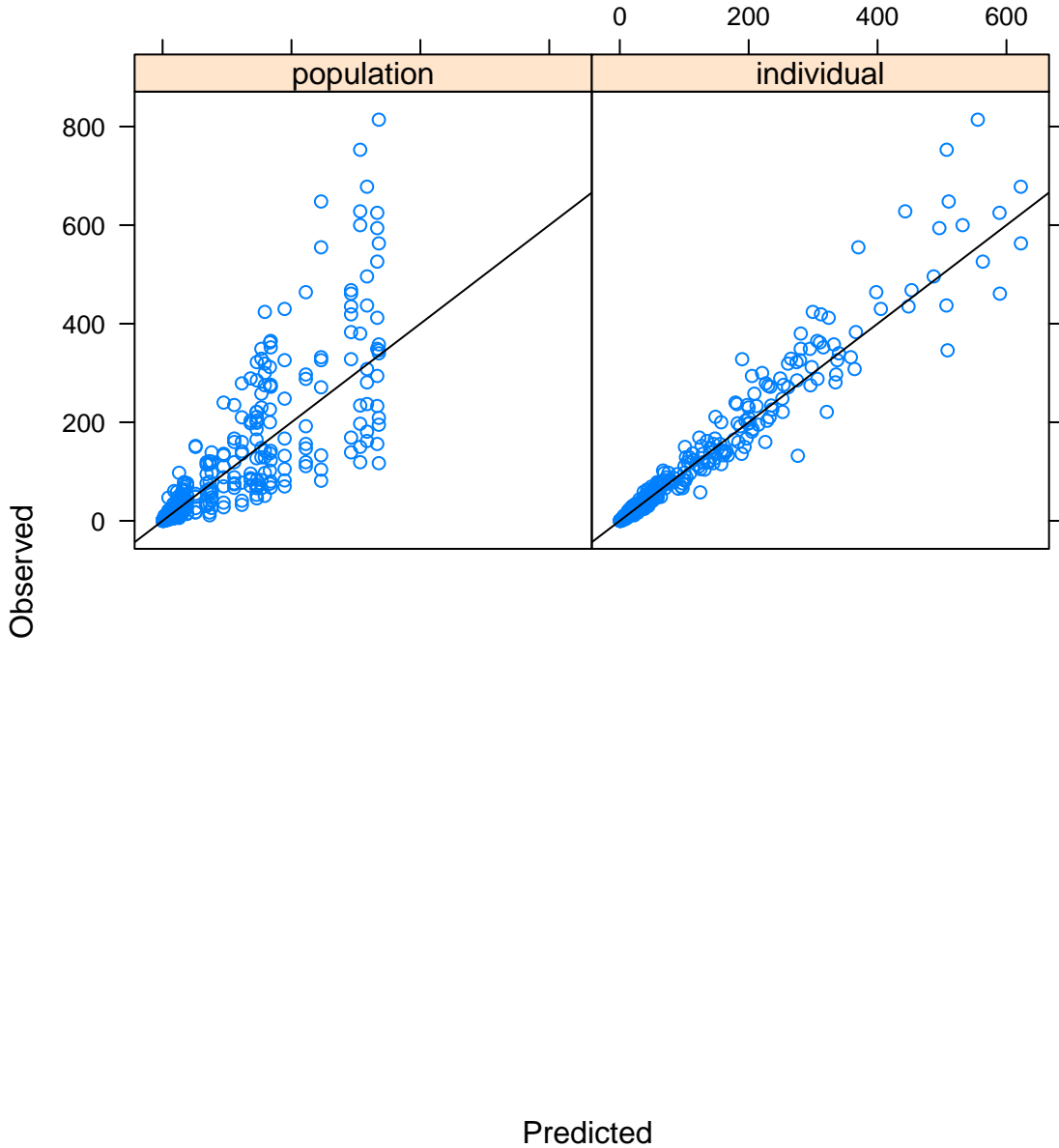


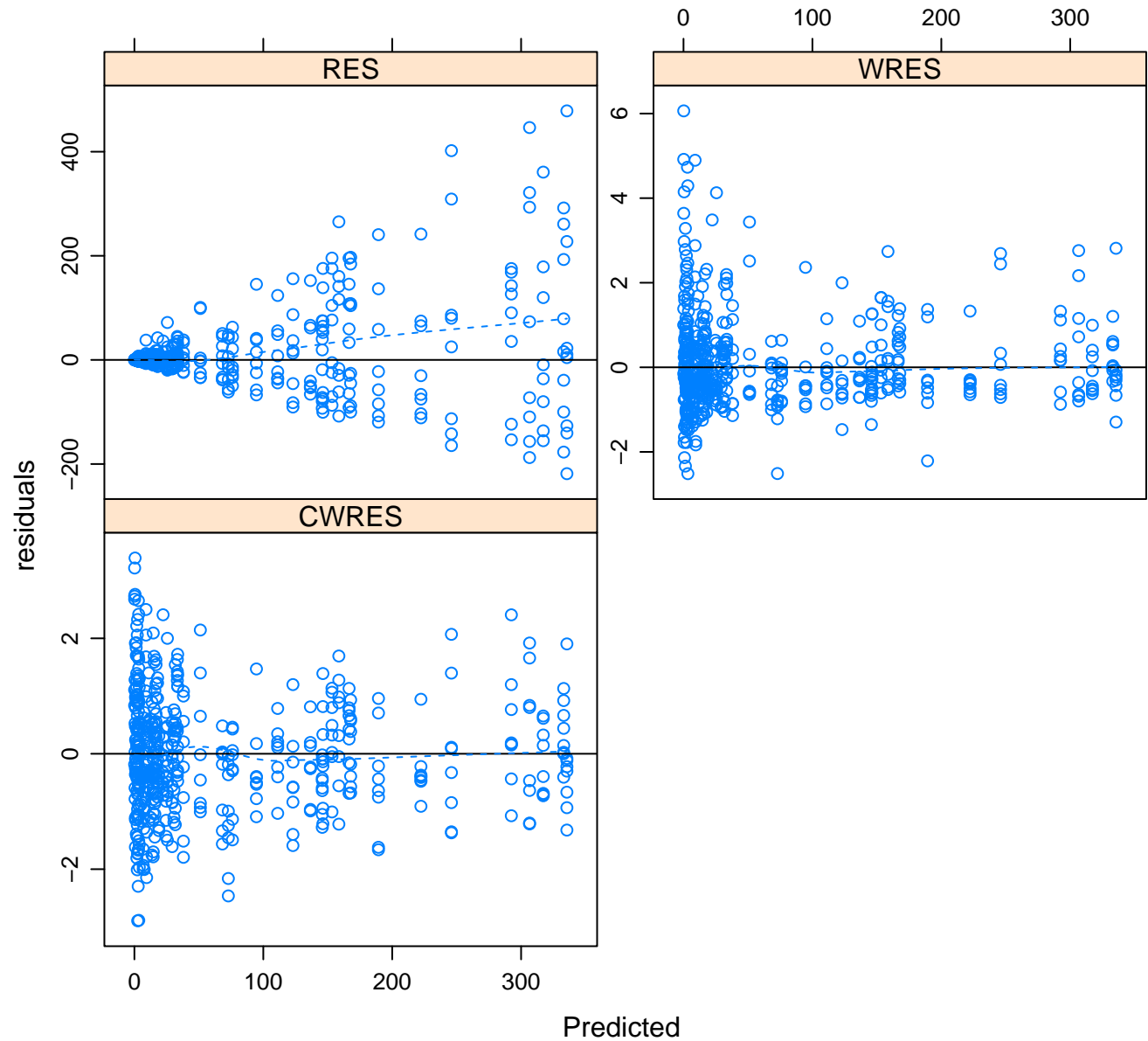
Model 1003

Observed vs. Predicted for all data



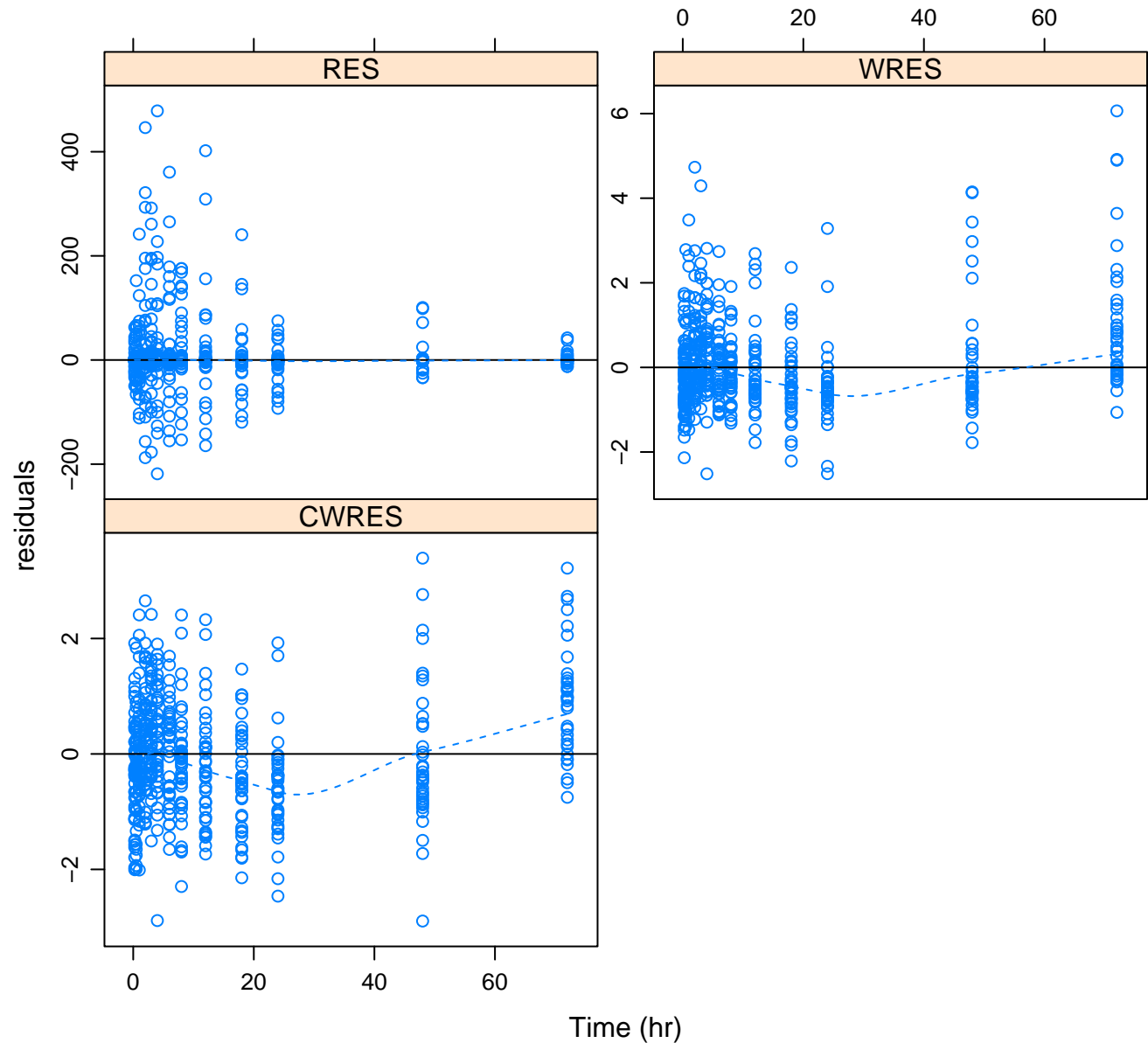
Model 1003

Residuals vs. Predicted for all data



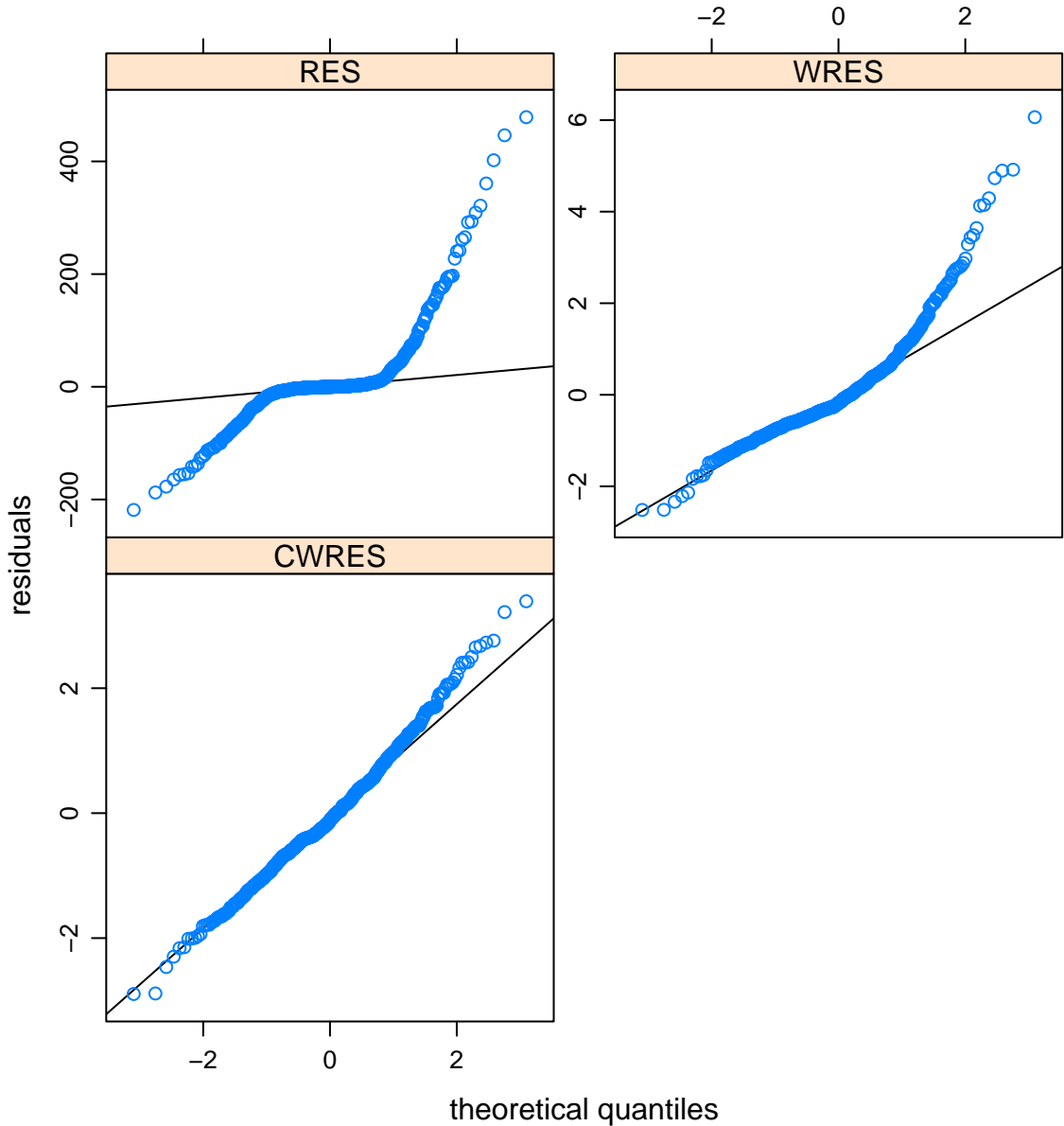
Model 1003

Residuals vs. Time for all data

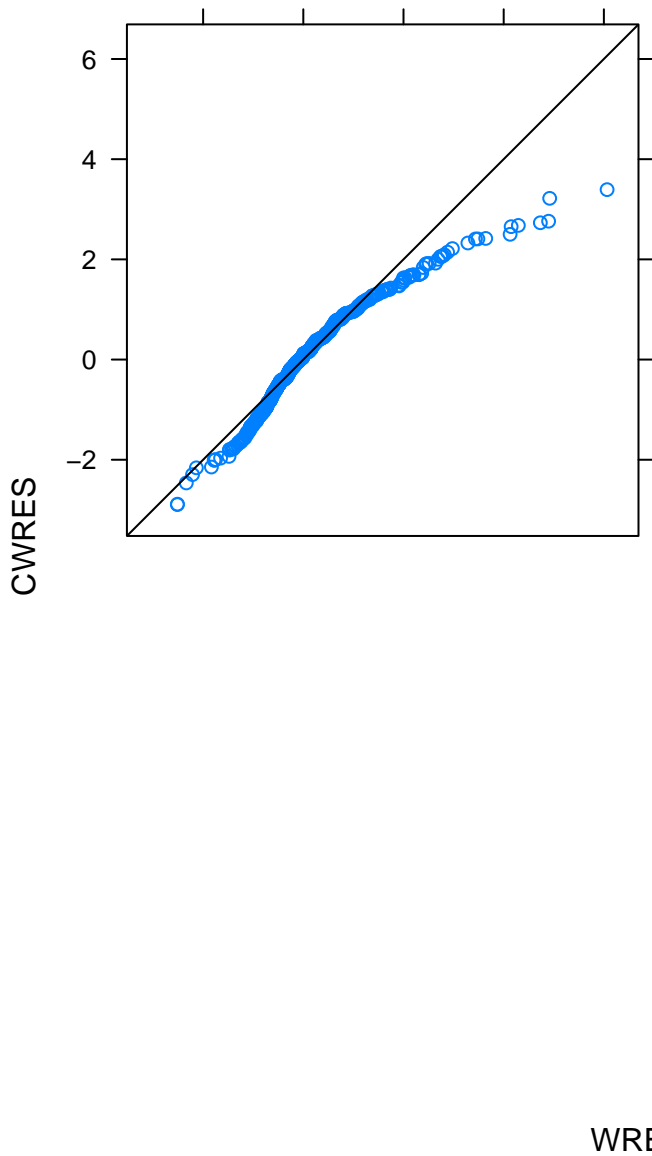


Model 1003

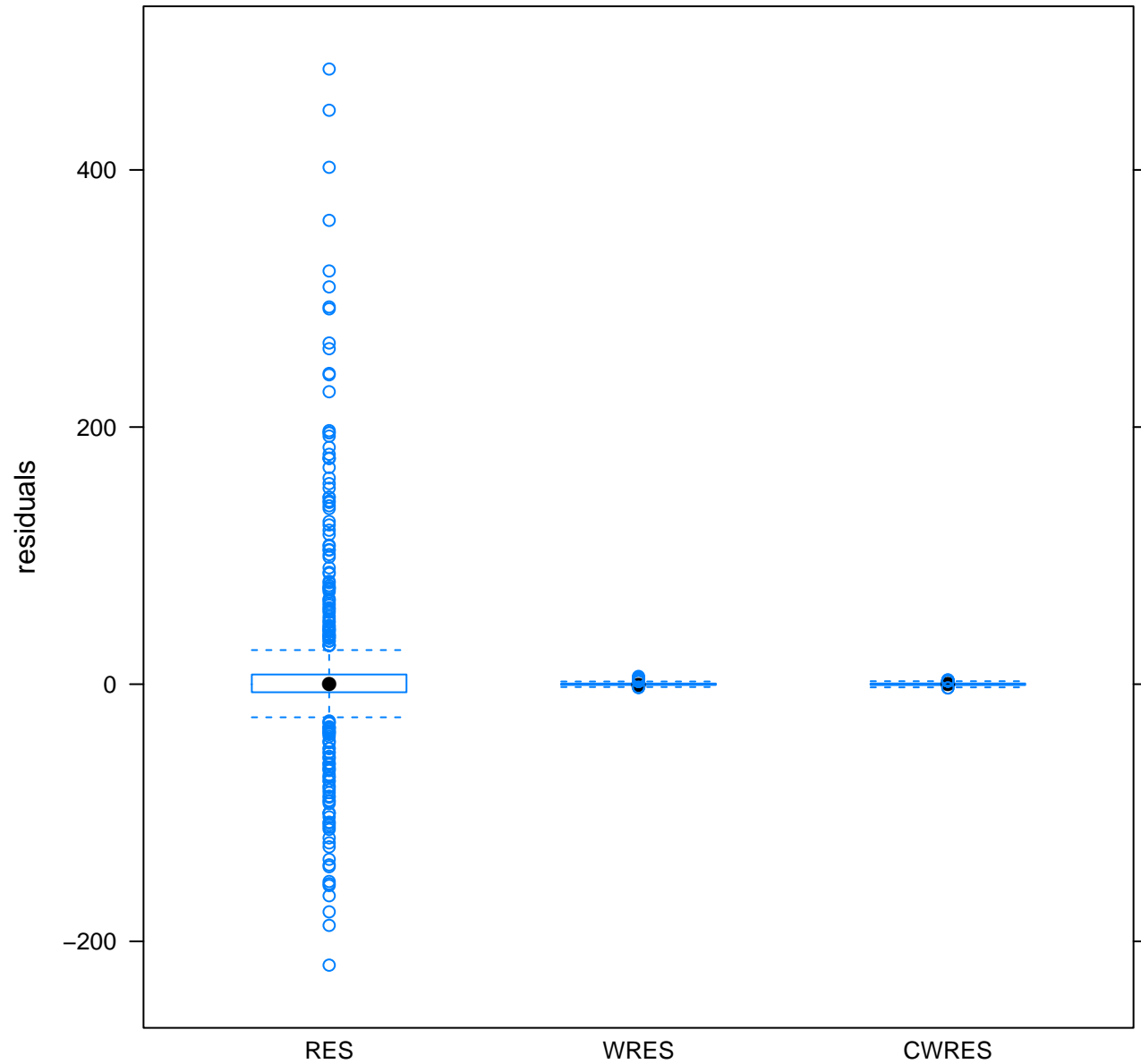
Normal Q-Q Plot Residuals for all data



Model 1003
Q-Q Plot of CWRES vs. WRES for all data

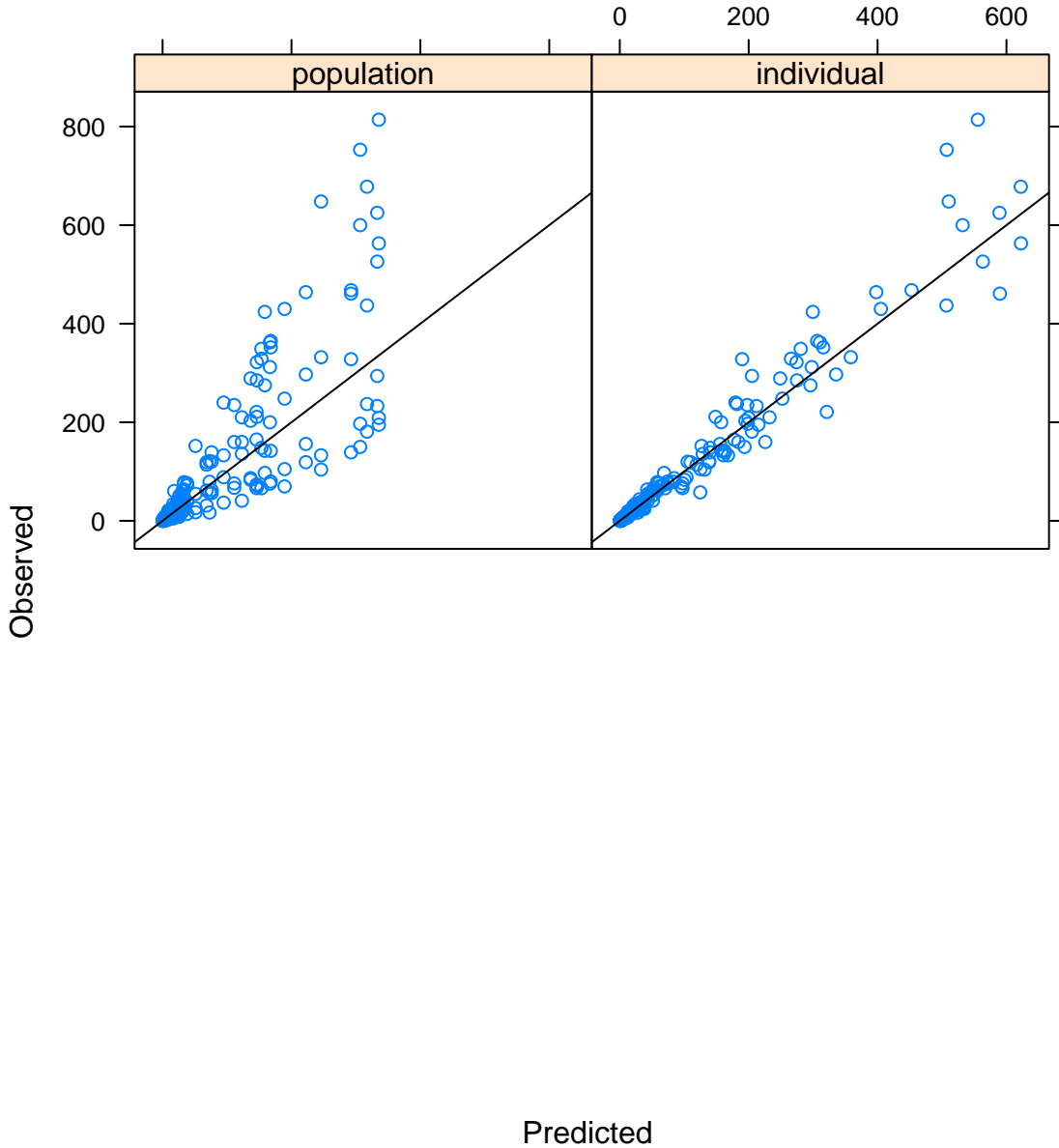


Model 1003 Boxplots of Residuals for all data



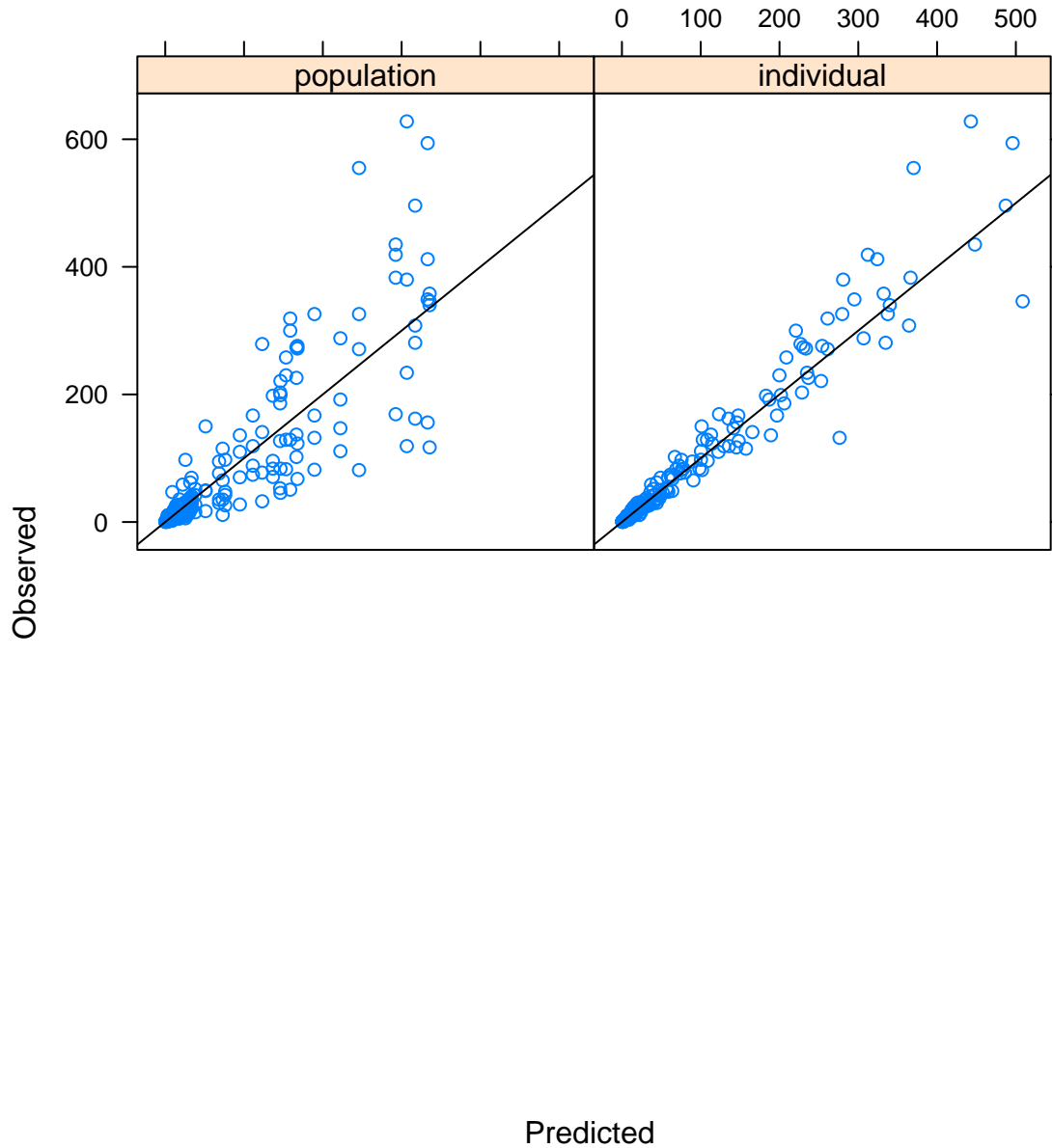
Model 1003

Observed vs. Predicted for female data



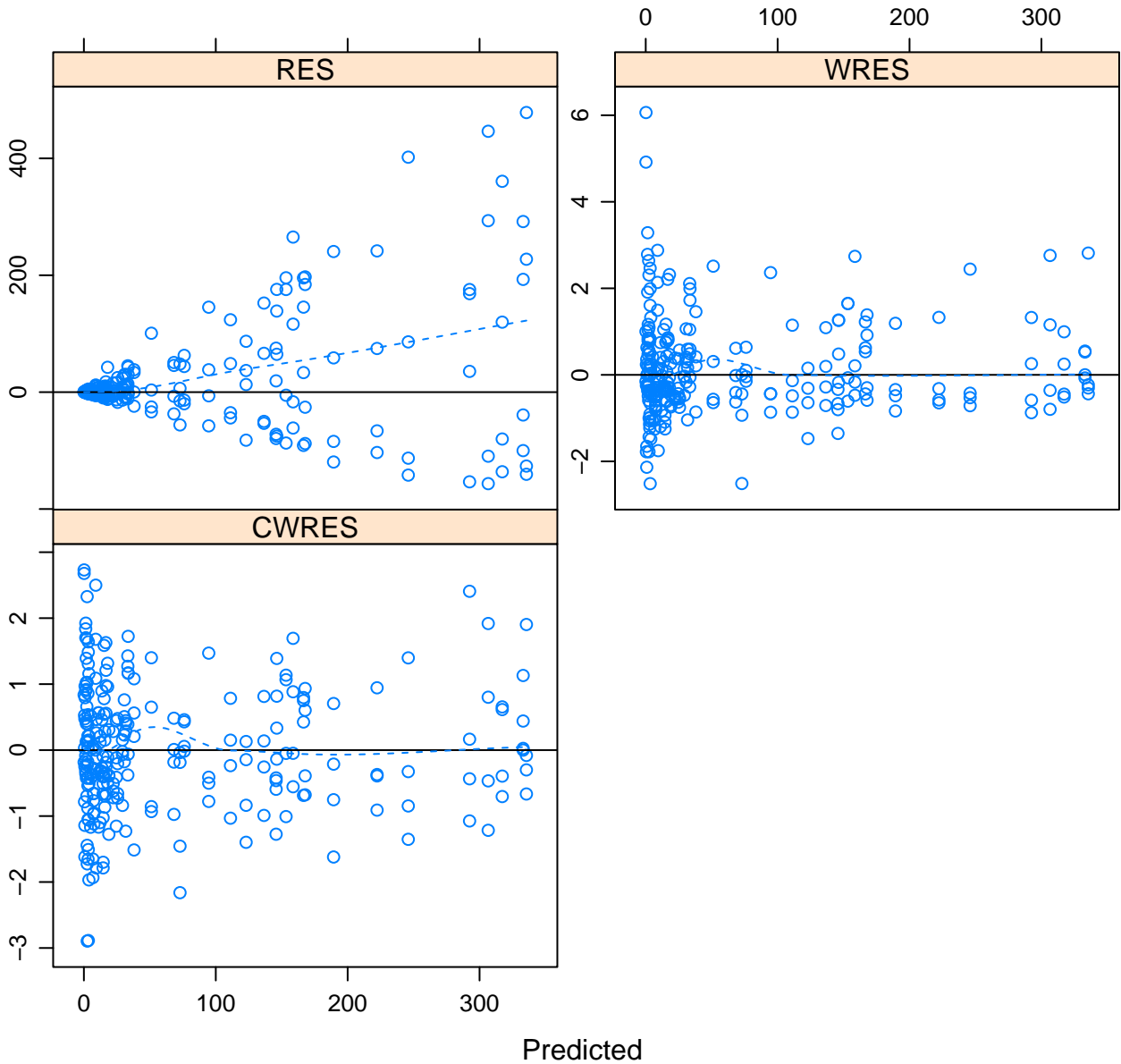
Model 1003

Observed vs. Predicted for male data



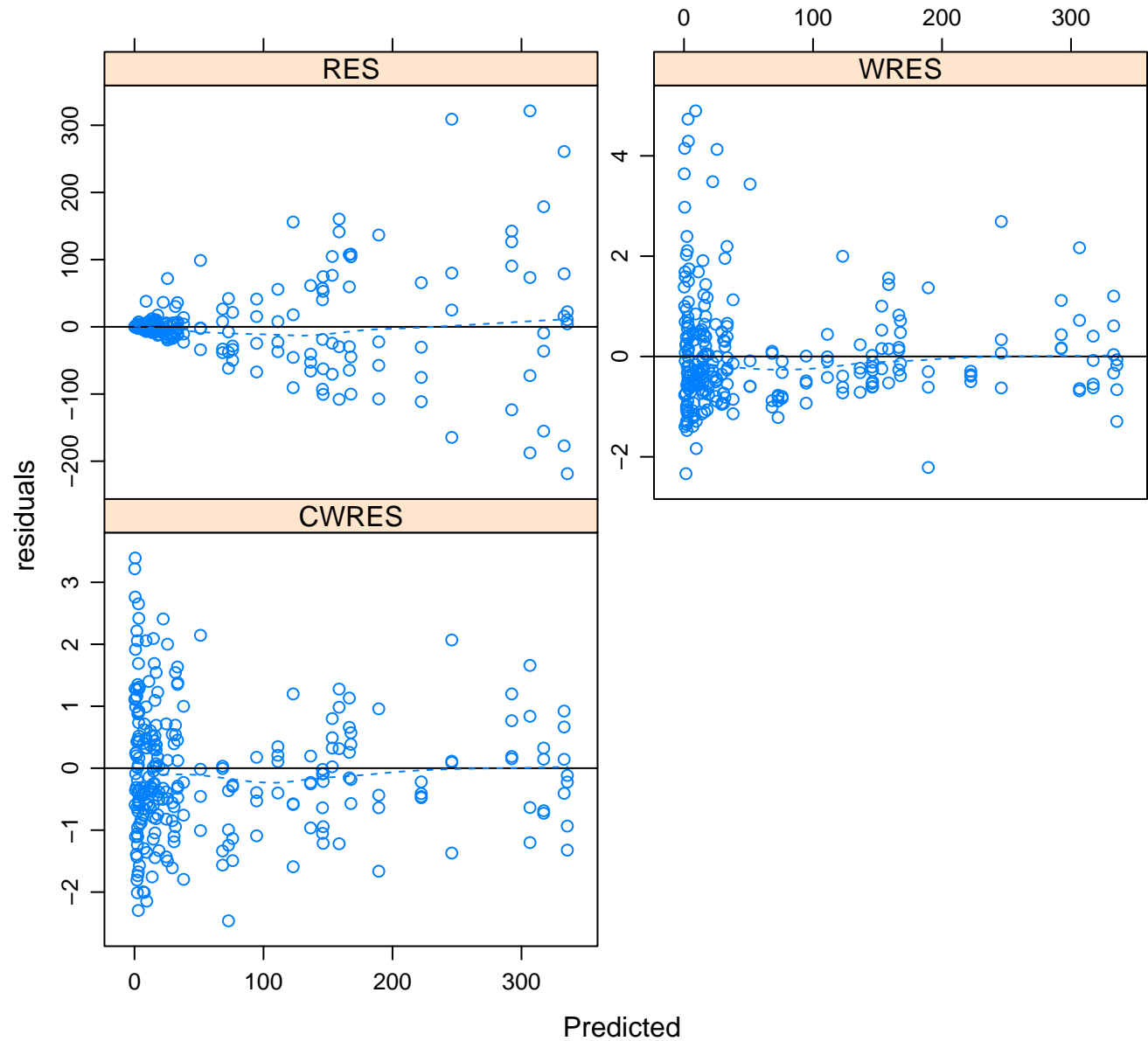
Model 1003

Residuals vs. Predicted for female data



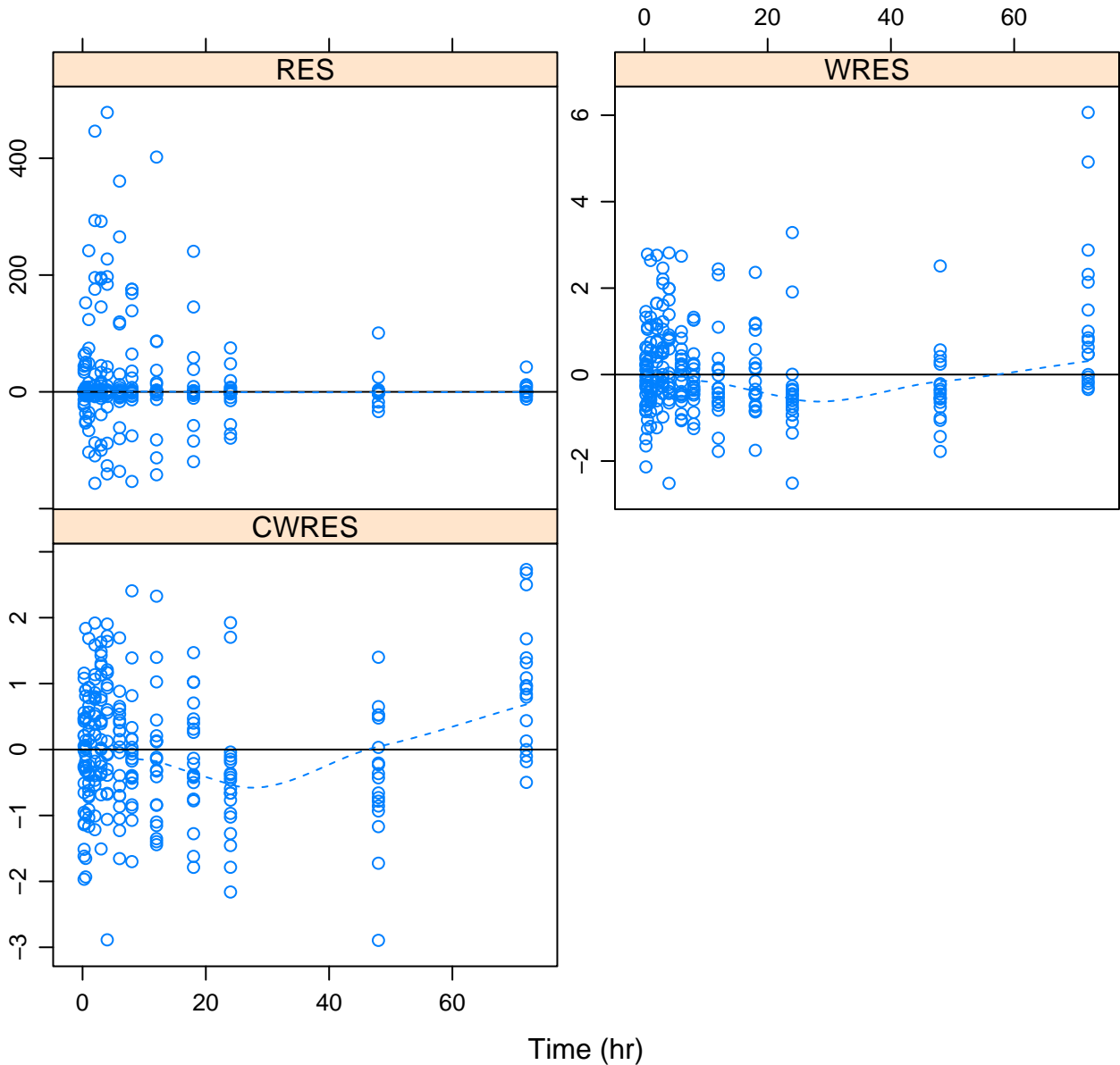
Model 1003

Residuals vs. Predicted for male data



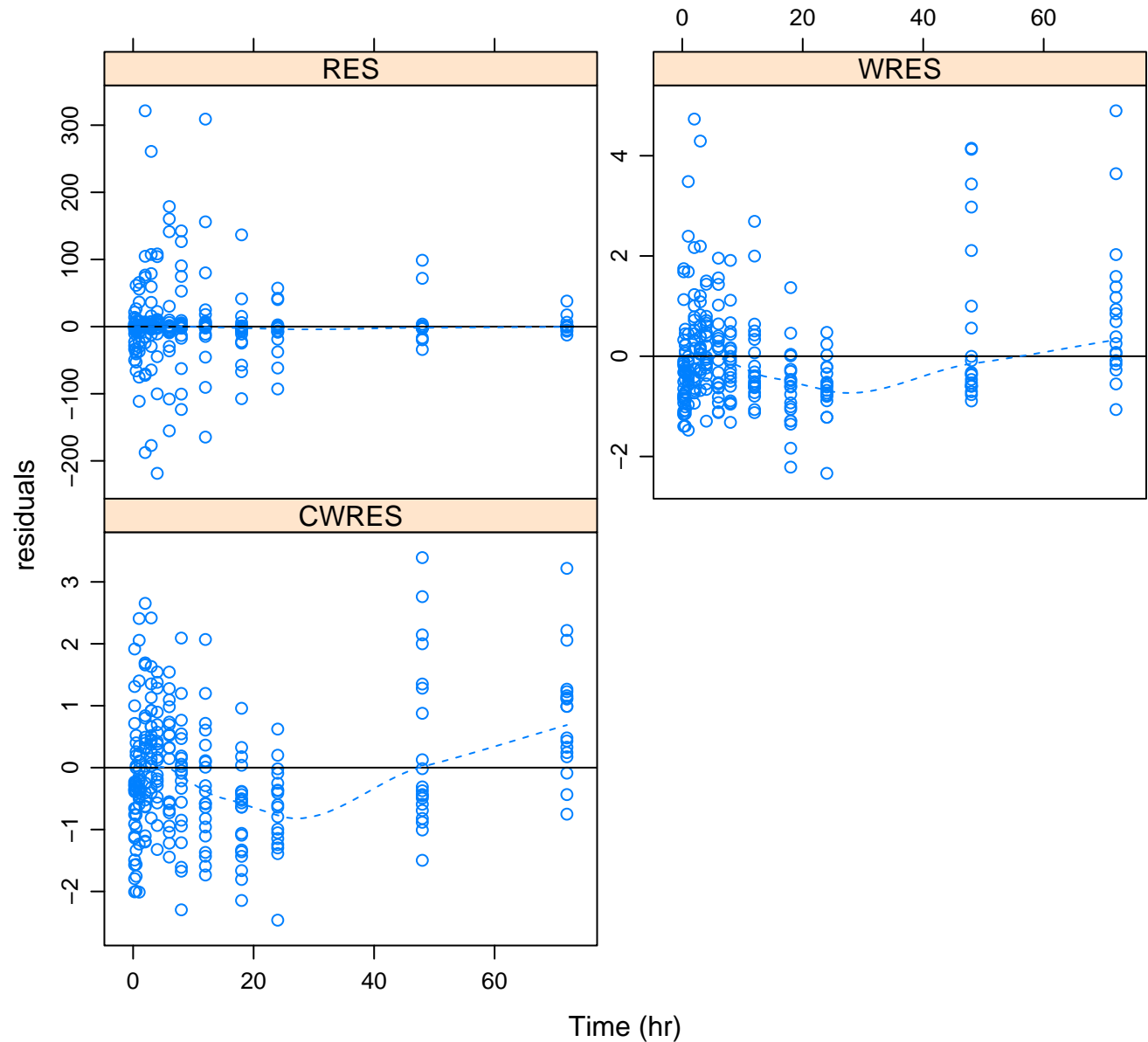
Model 1003

Residuals vs. Time for female data



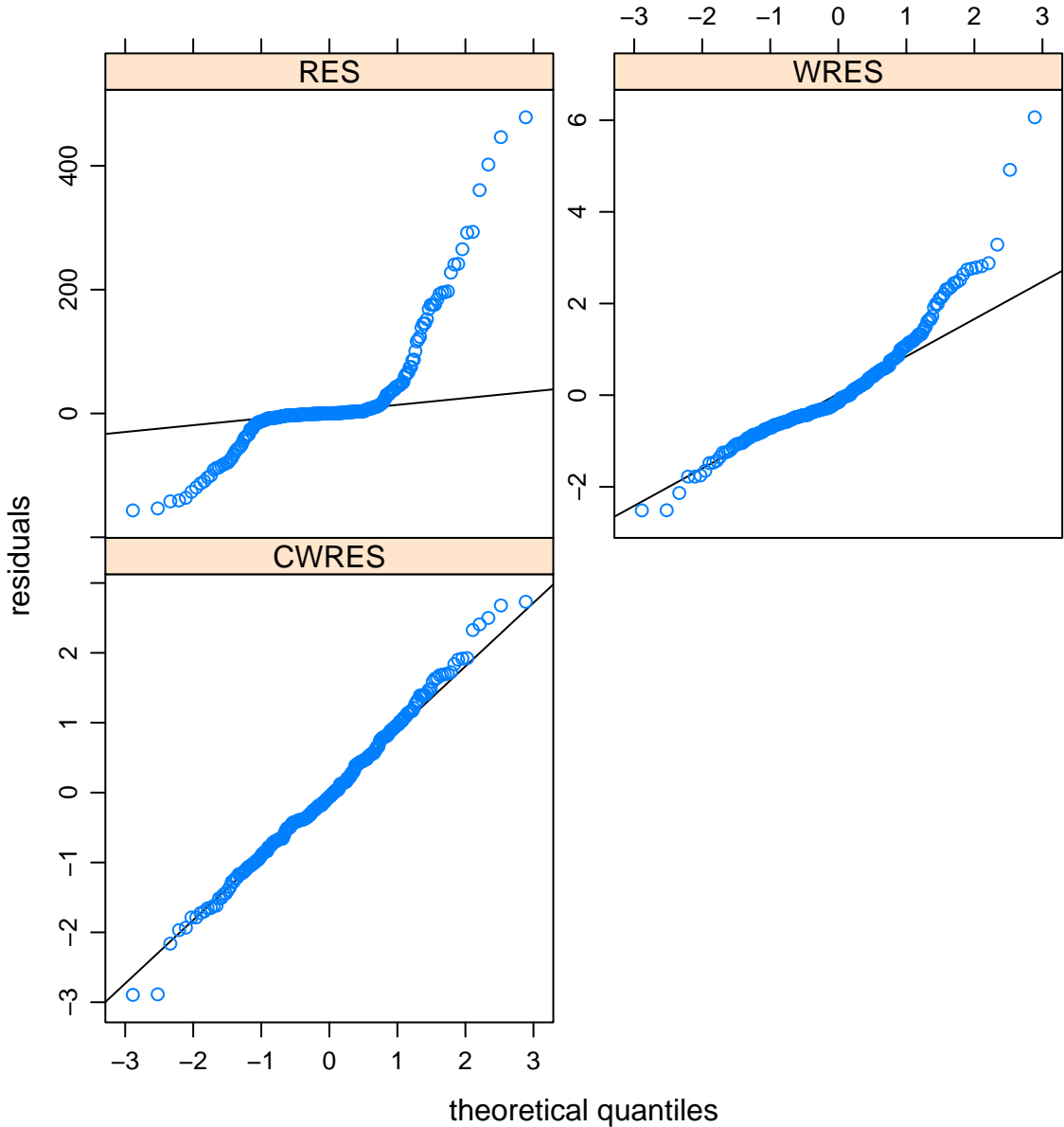
Model 1003

Residuals vs. Time for male data



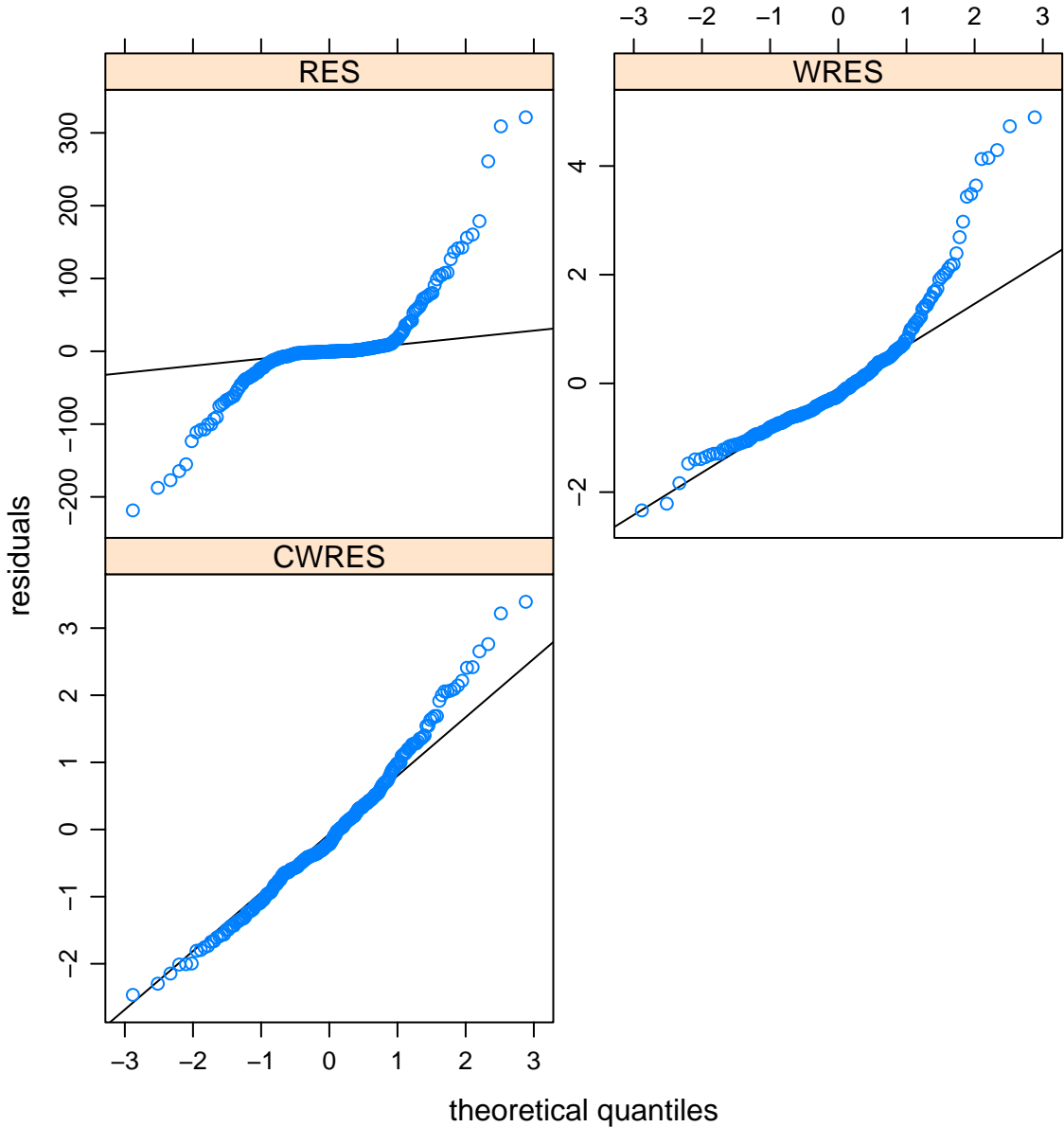
Model 1003

Normal Q-Q Plot Residuals for female data

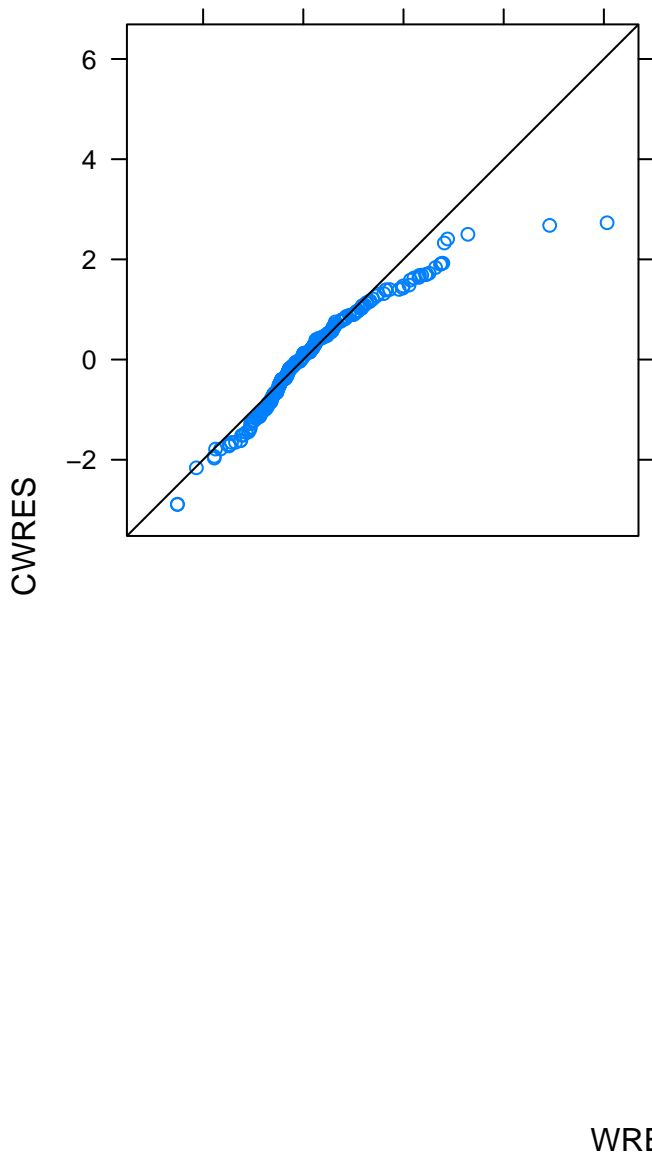


Model 1003

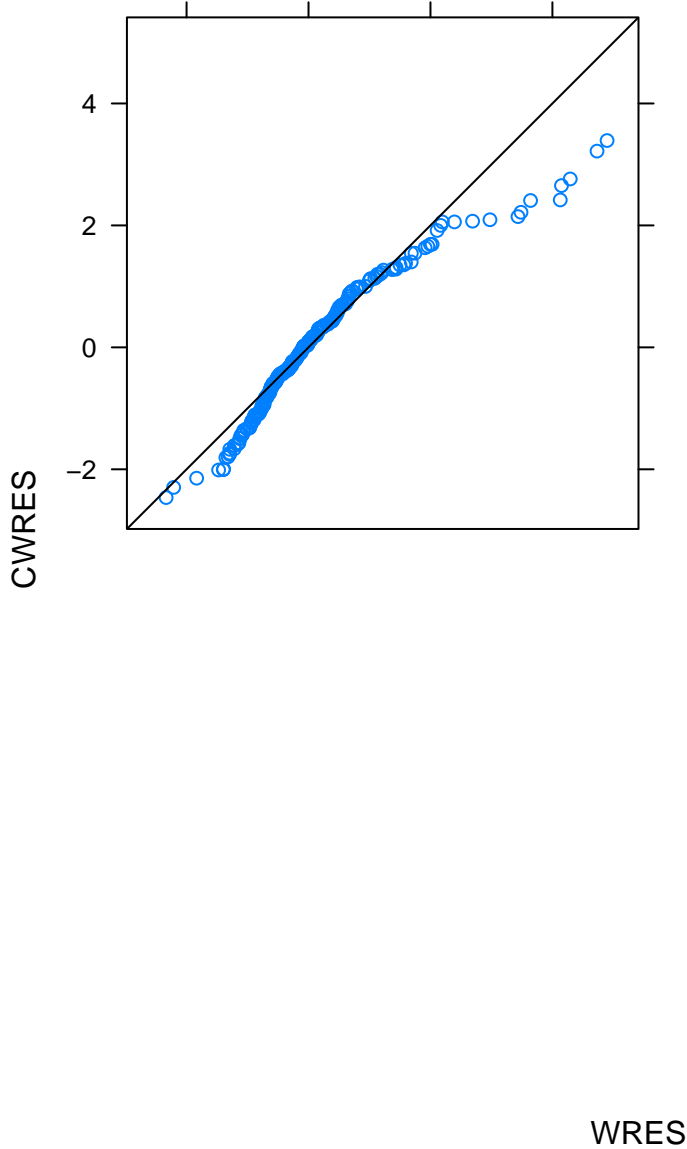
Normal Q-Q Plot Residuals for male data



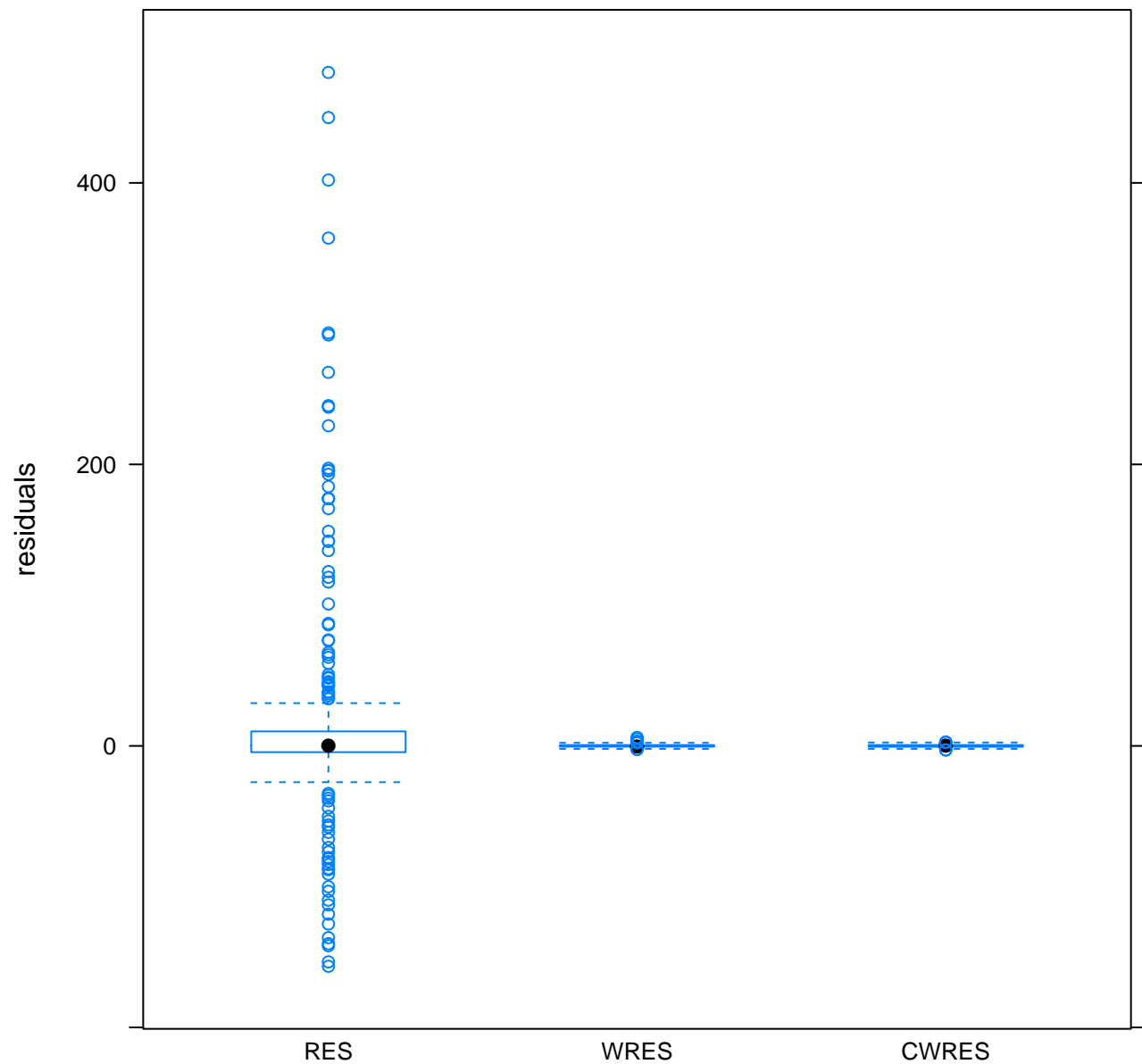
Model 1003
Q-Q Plot of CWRES vs. WRES for female data



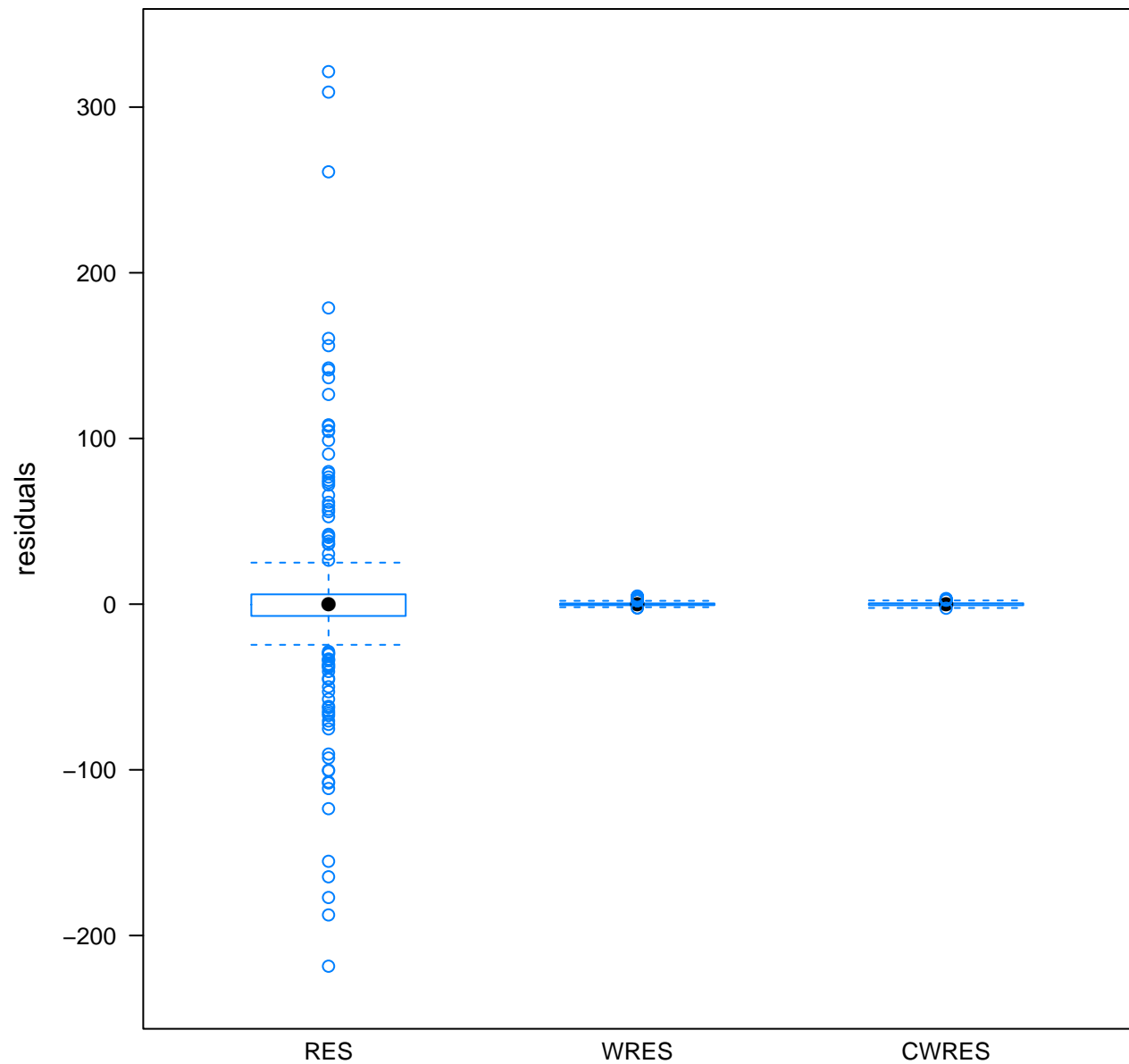
Model 1003
Q-Q Plot of CWRES vs. WRES for male data



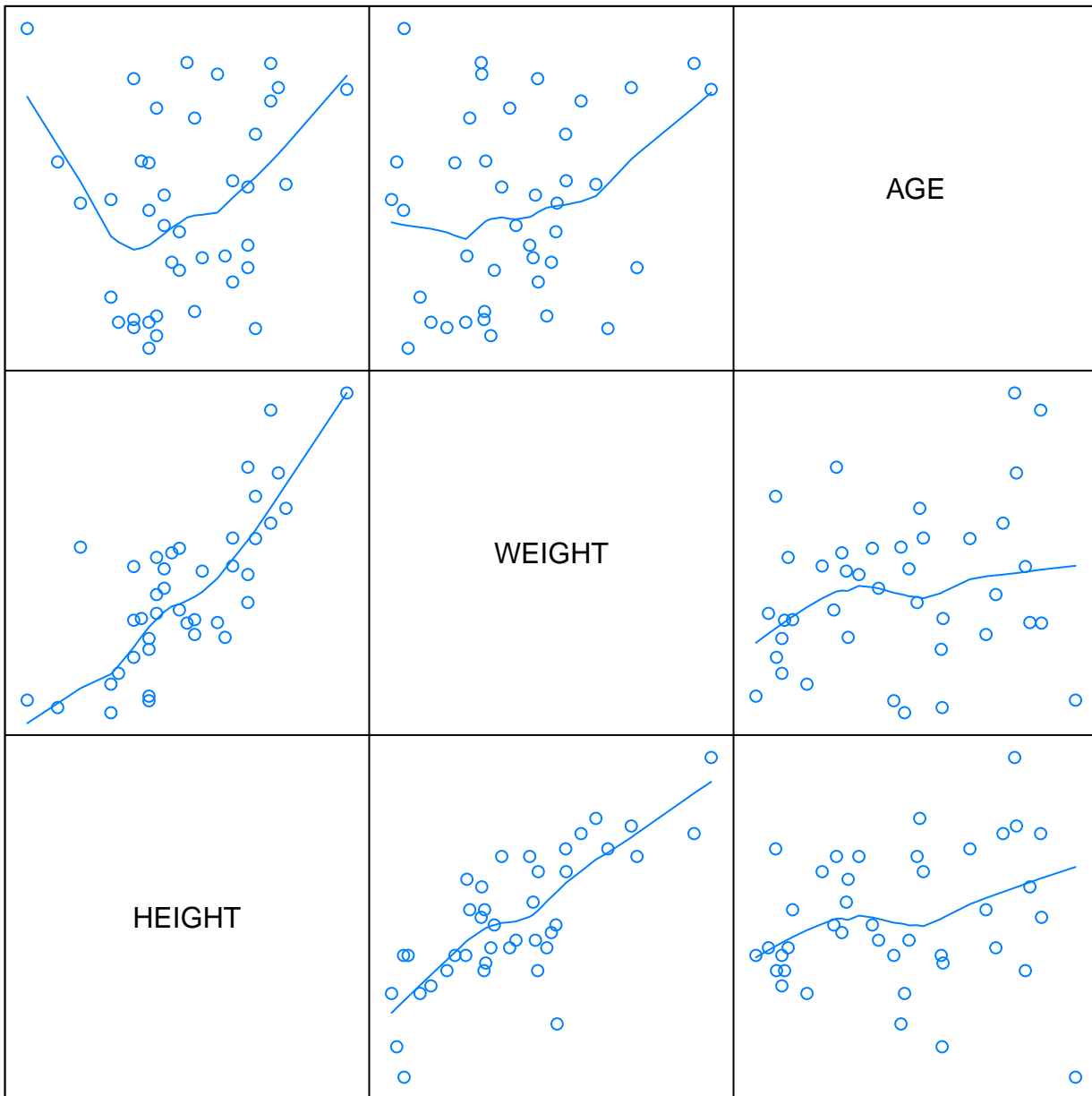
Model 1003 Boxplots of Residuals for female data



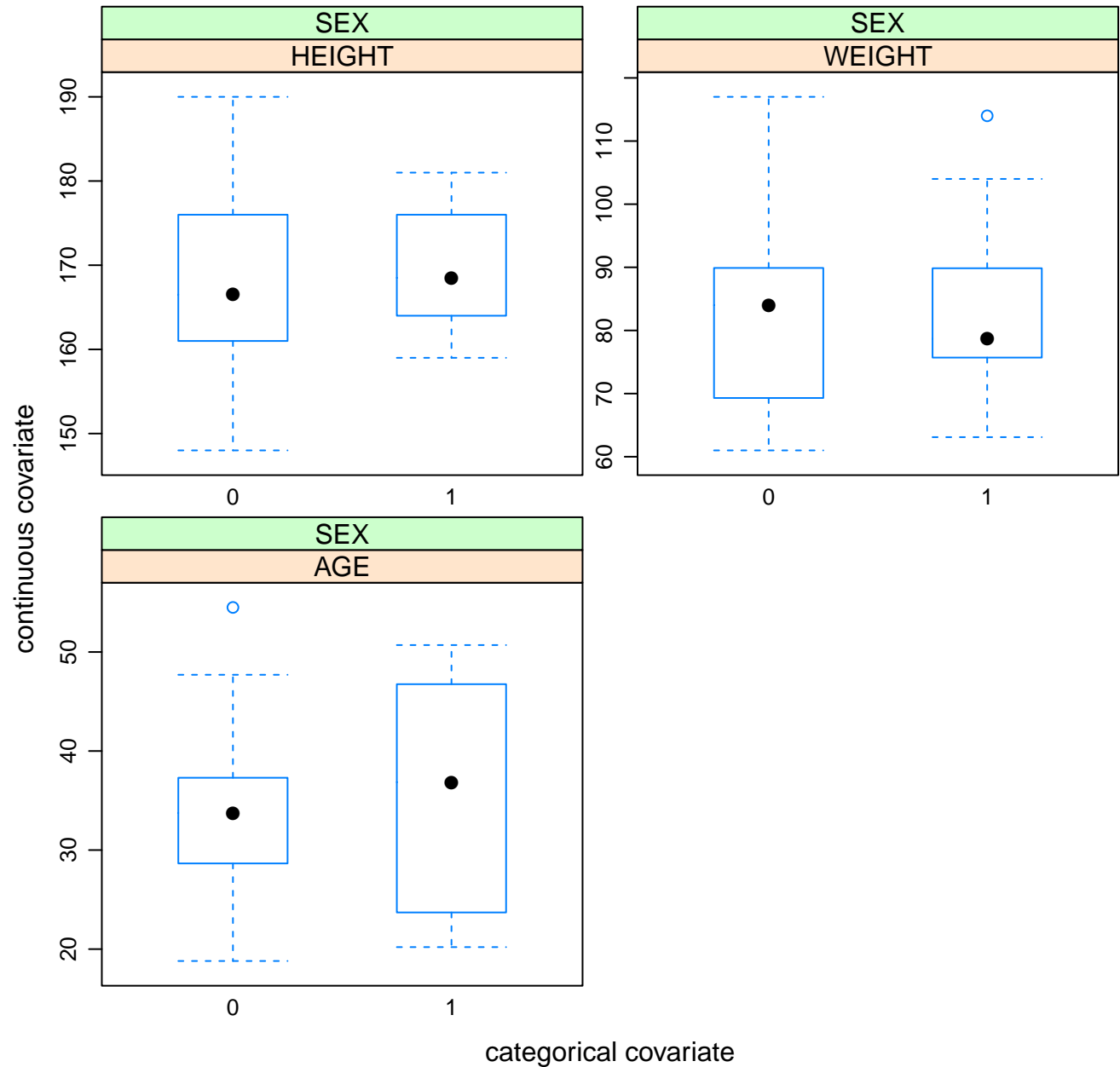
Model 1003 Boxplots of Residuals for male data



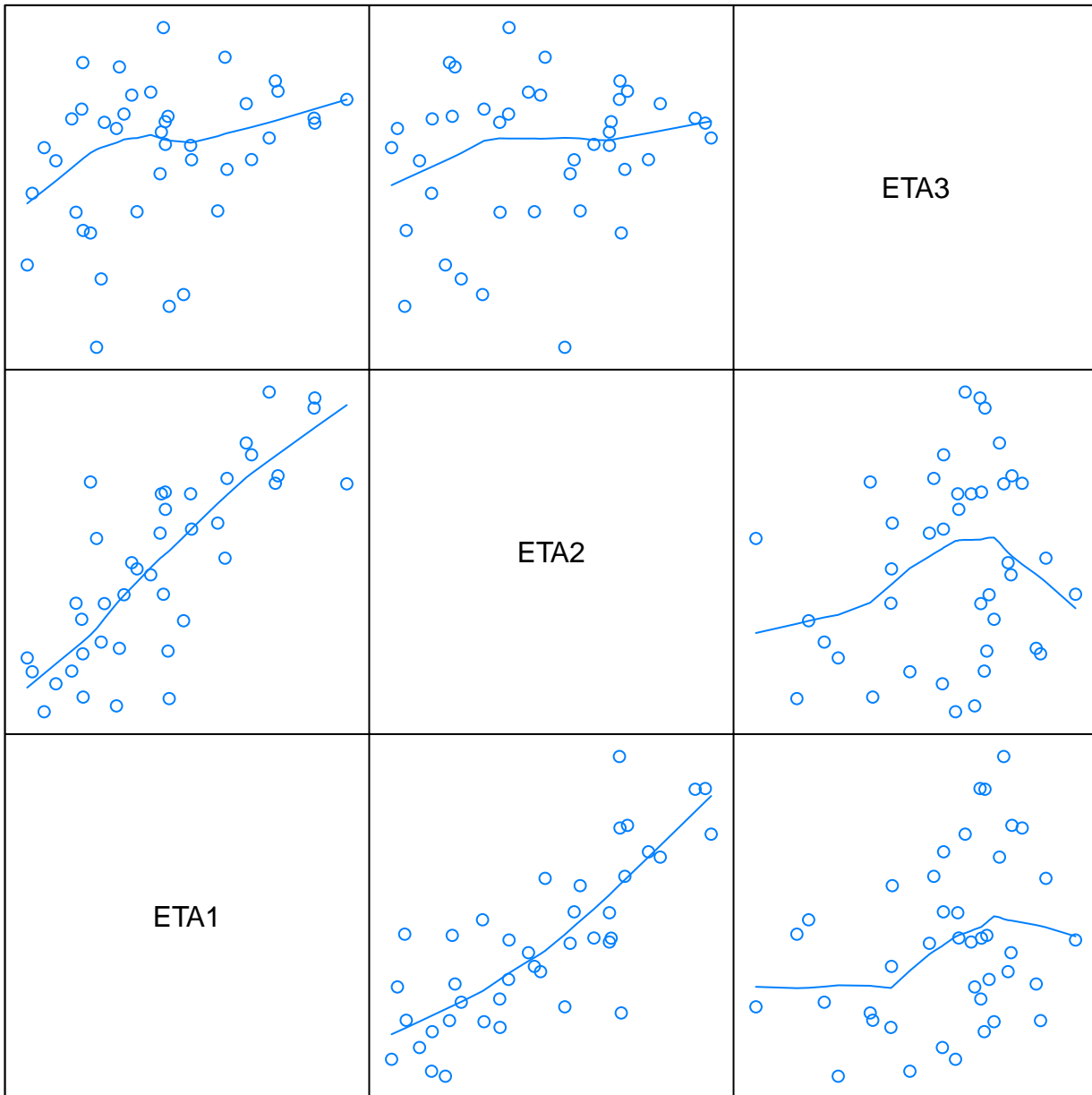
Covariate Scatterplots



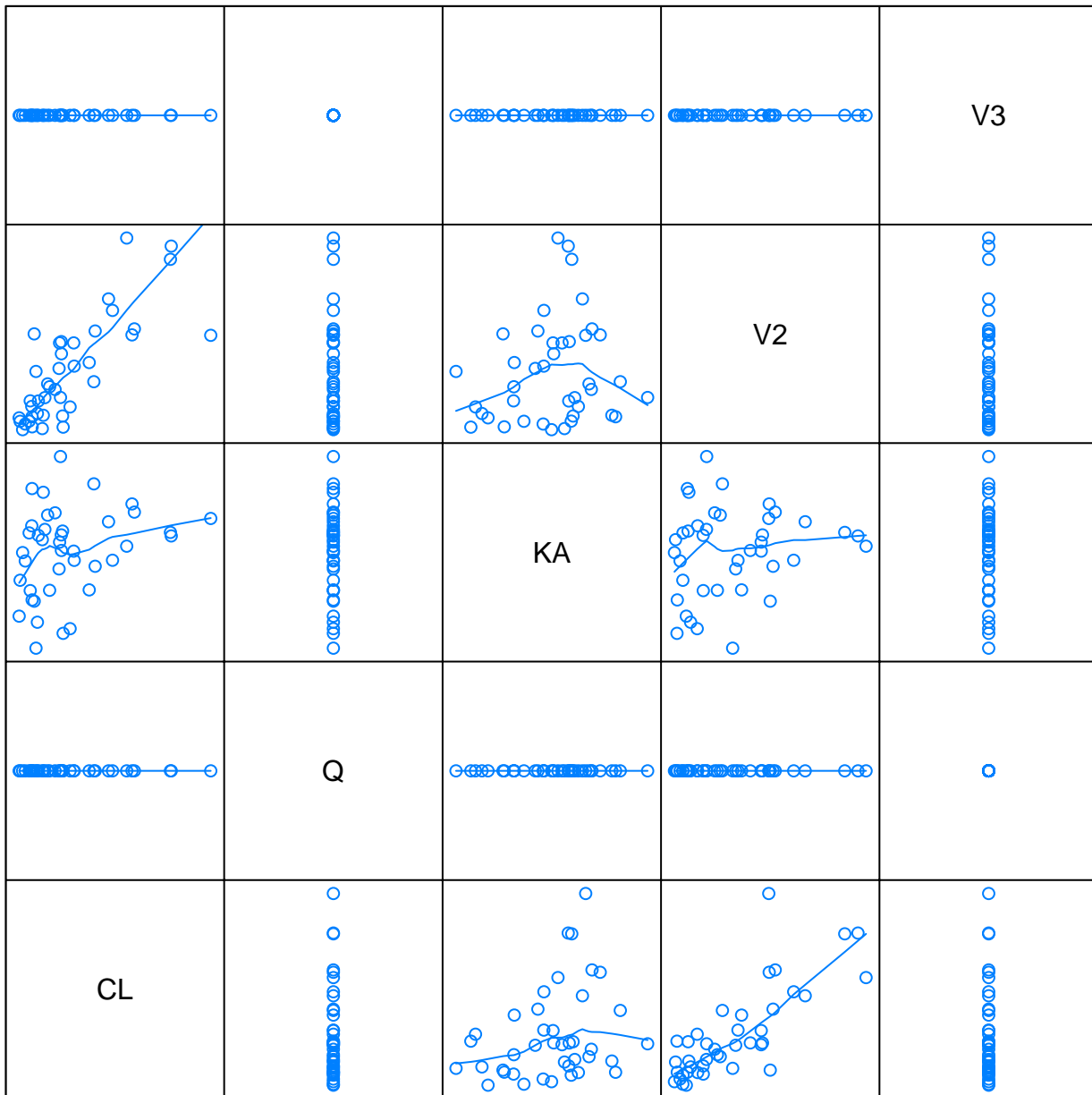
Continuous Covariates vs. Categorical Covariates



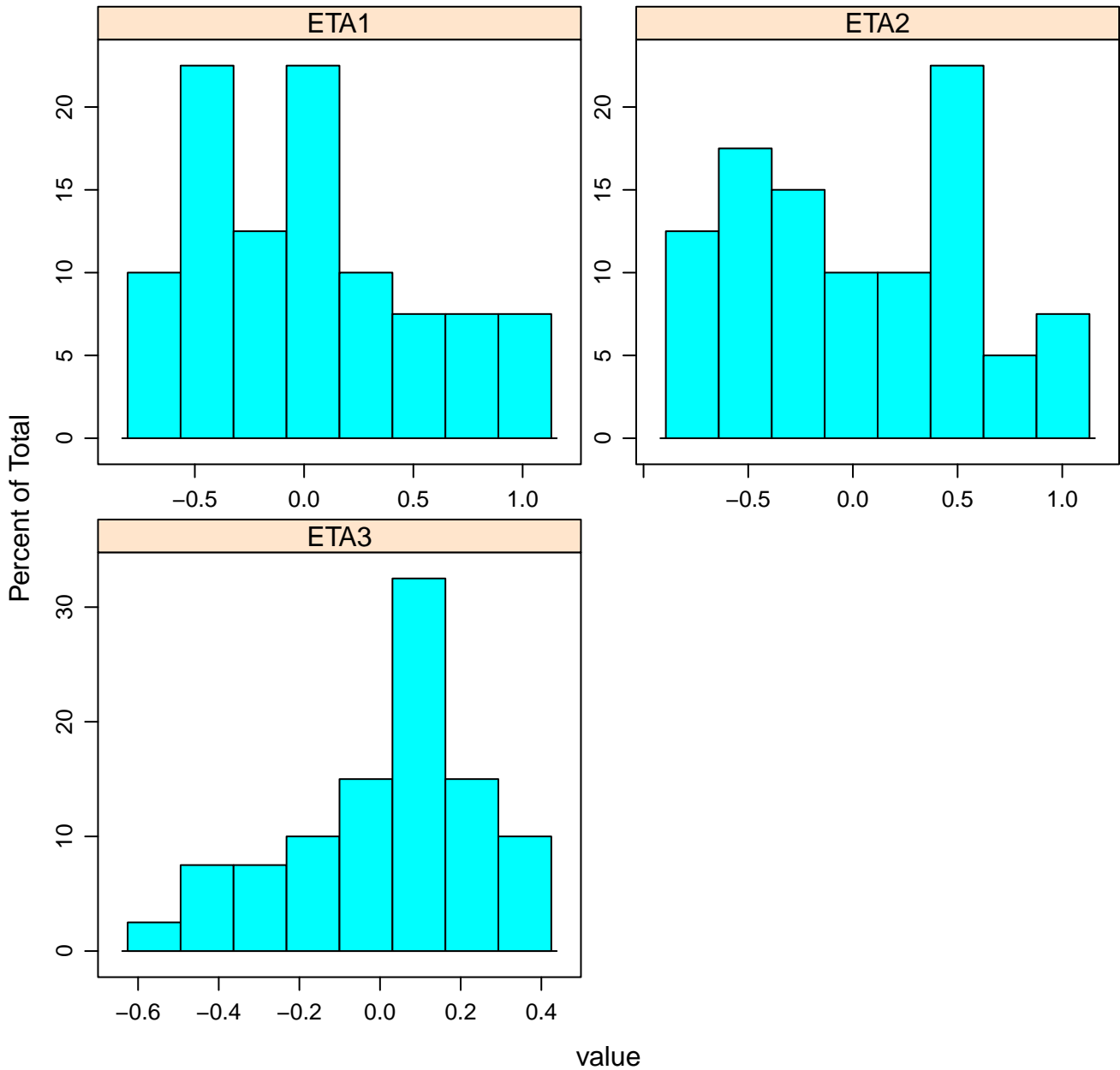
ETA Scatterplots



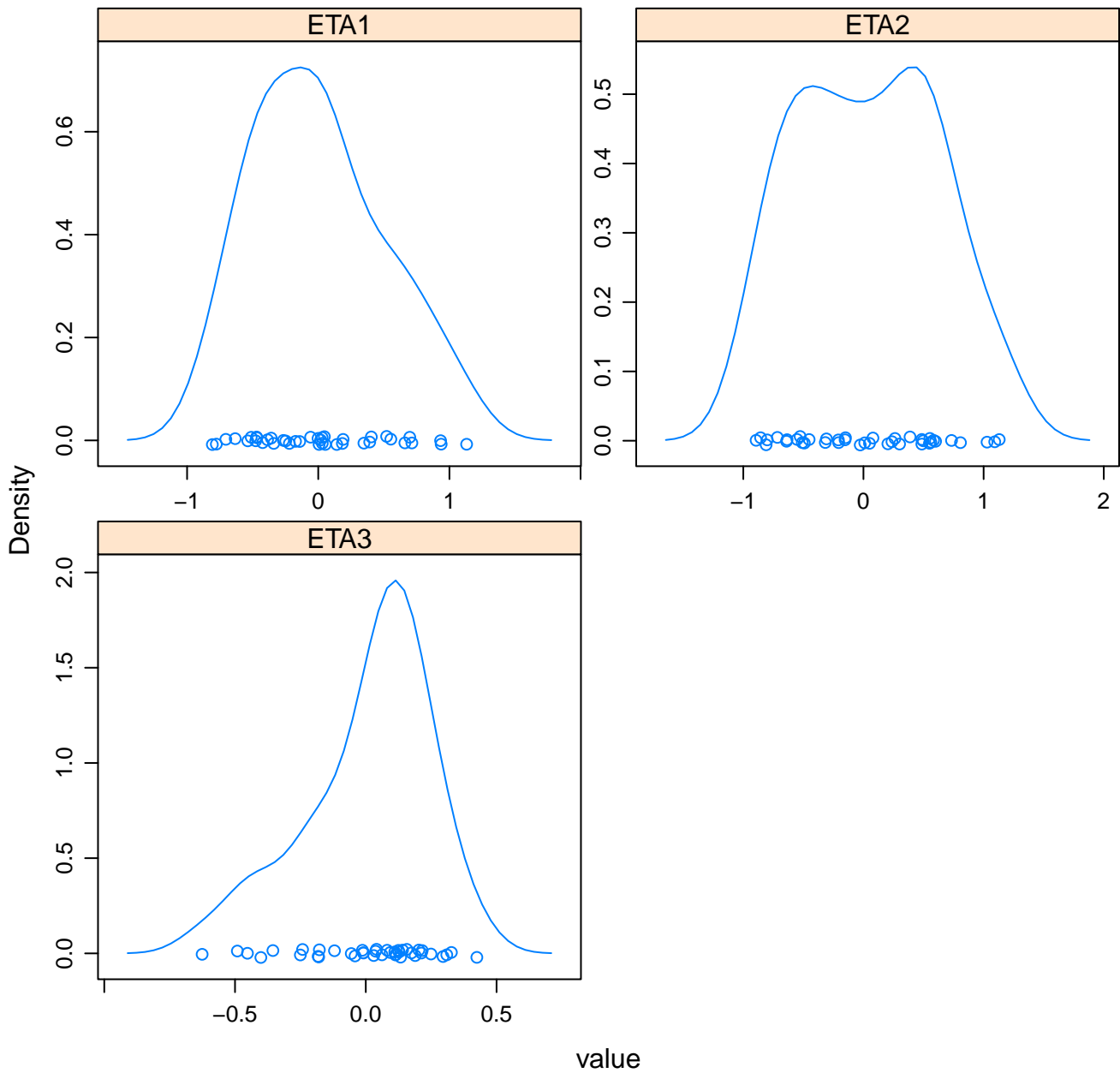
Parameter Scatterplots



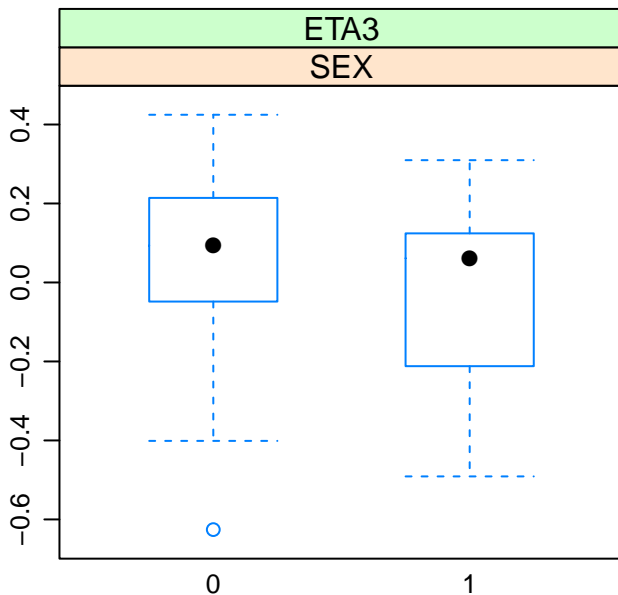
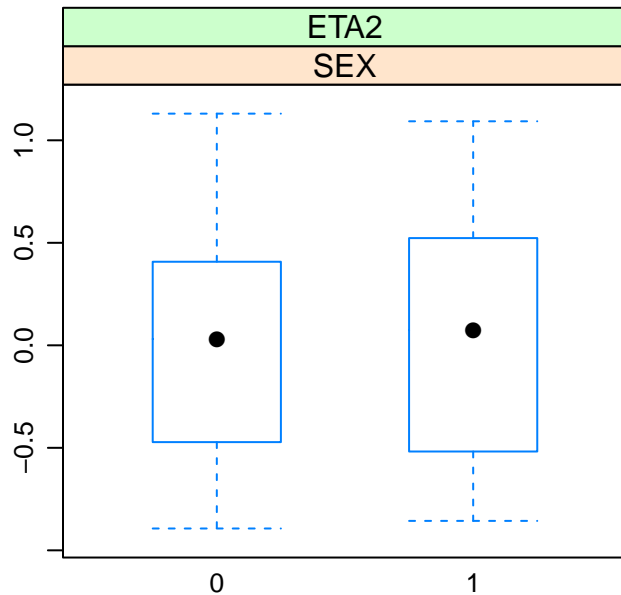
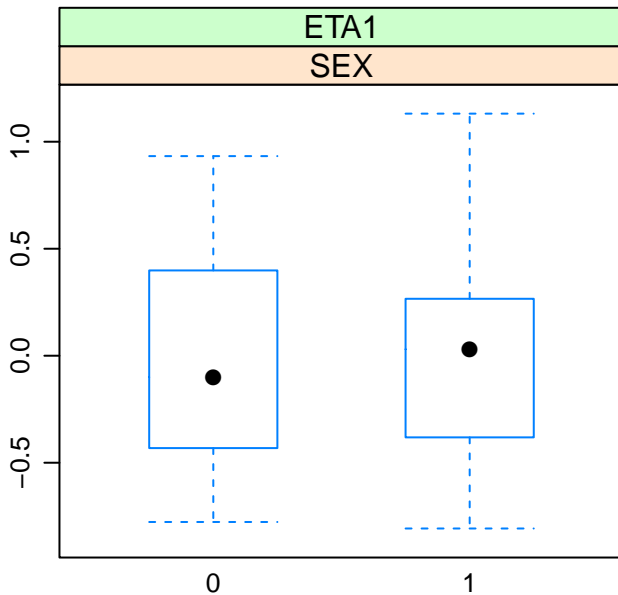
Histograms of Etas



Density of Etas

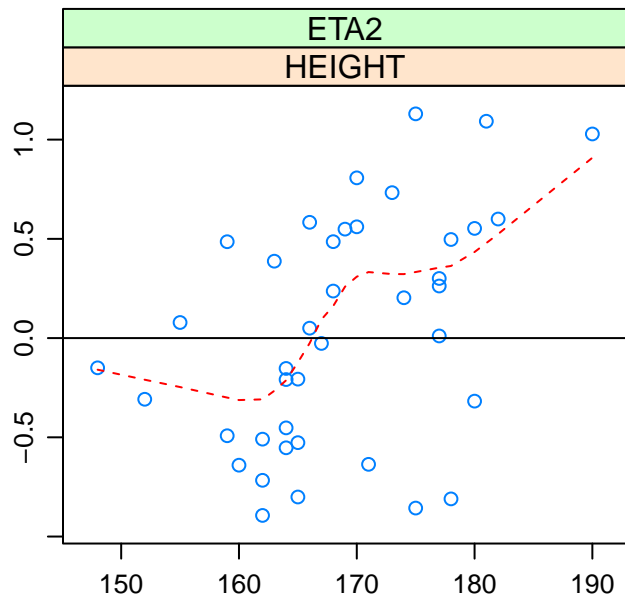
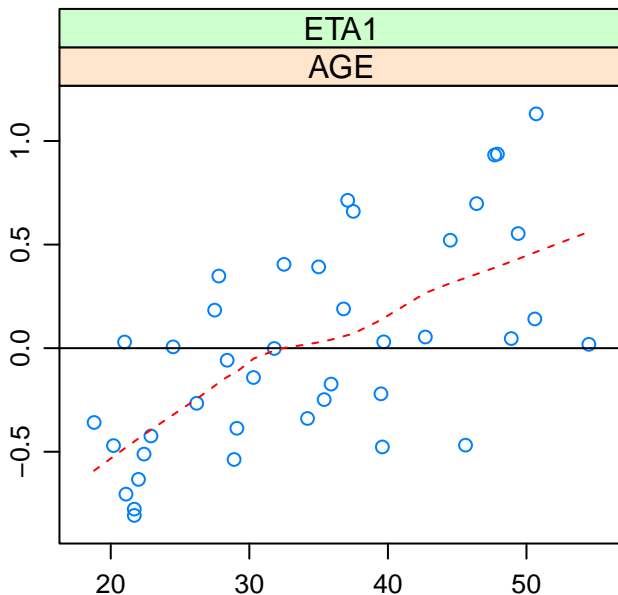
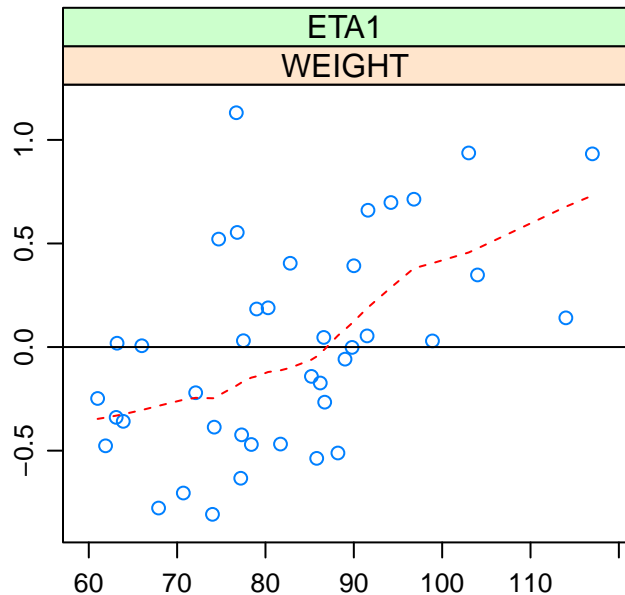
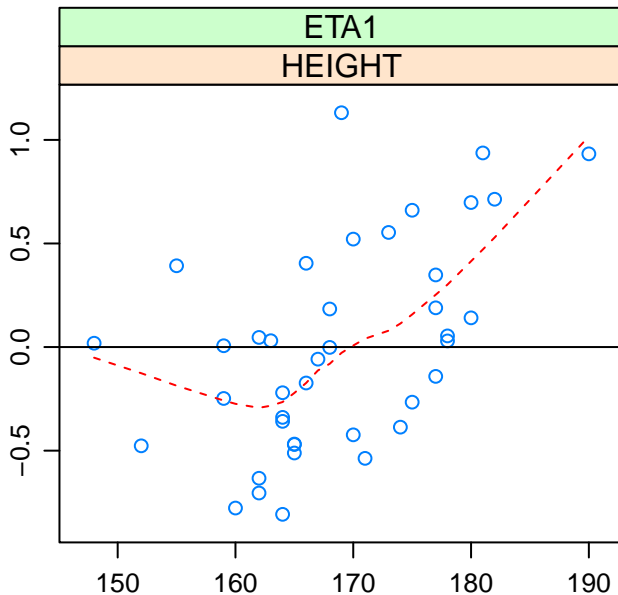


Boxplots of Etas by Categorical Covariate



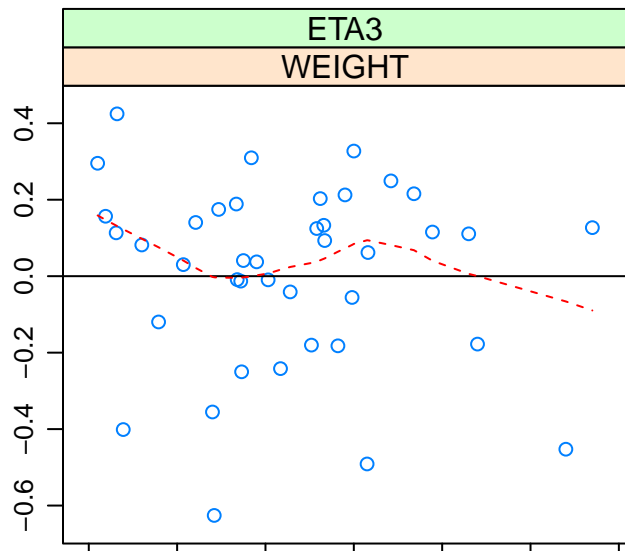
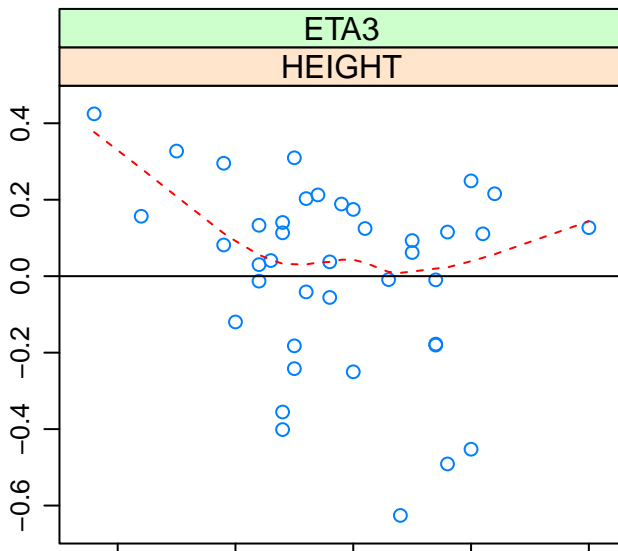
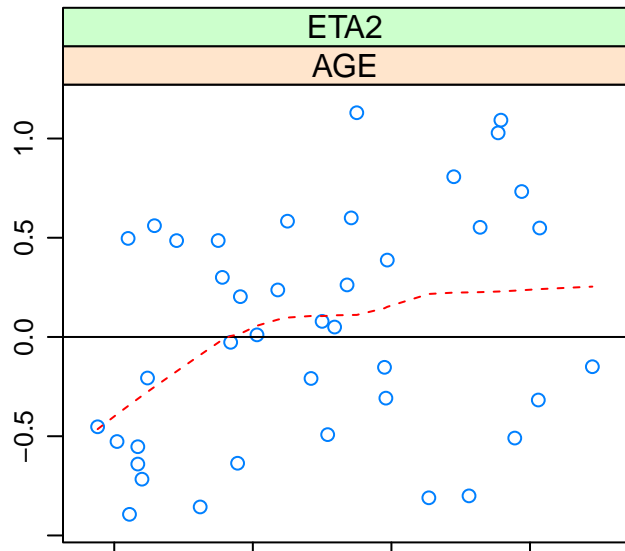
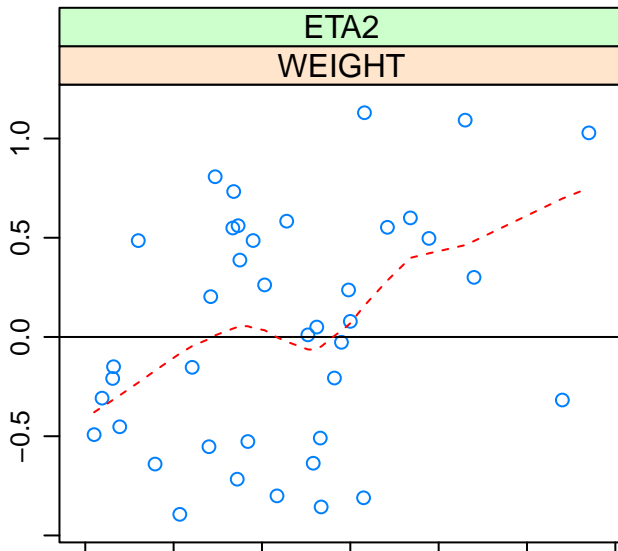
categorical covariate level

Etas vs. Continuous Covariates



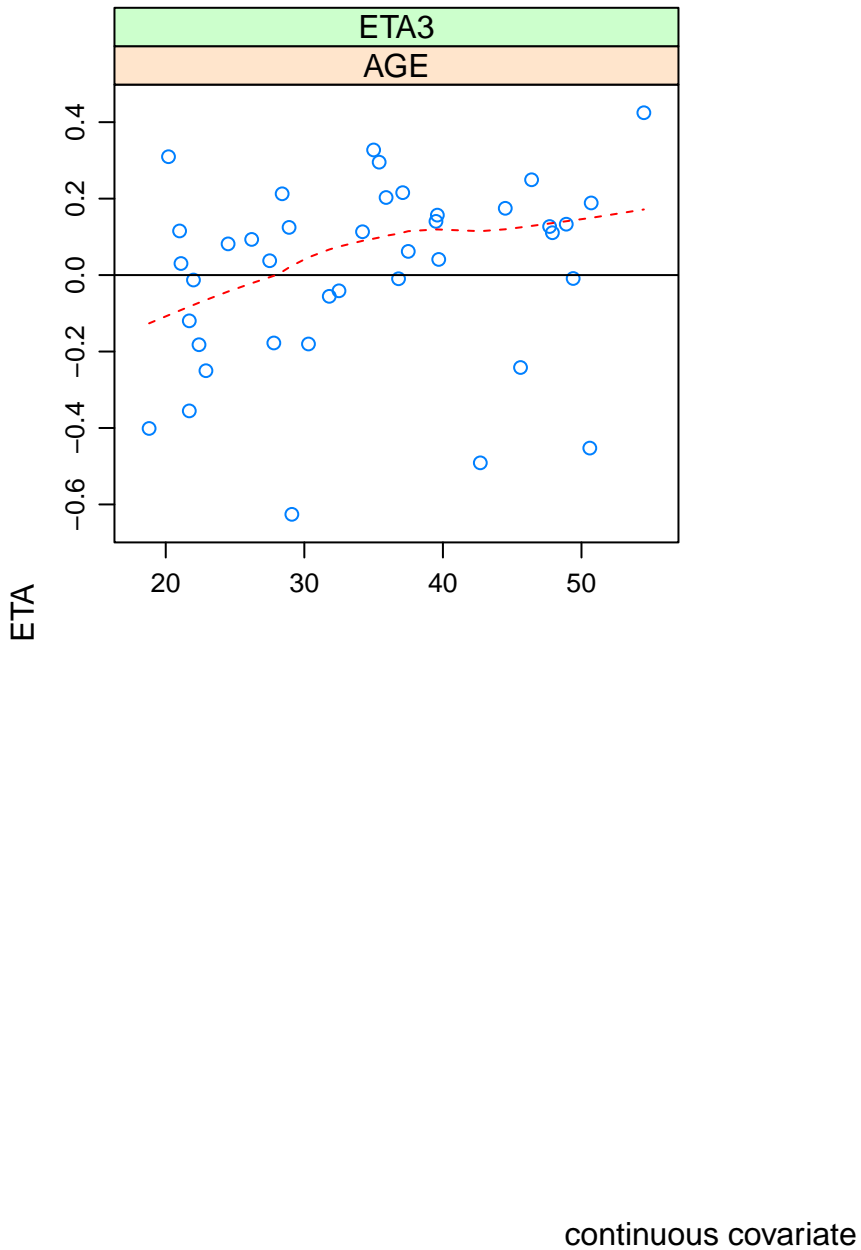
continuous covariate

Etas vs. Continuous Covariates

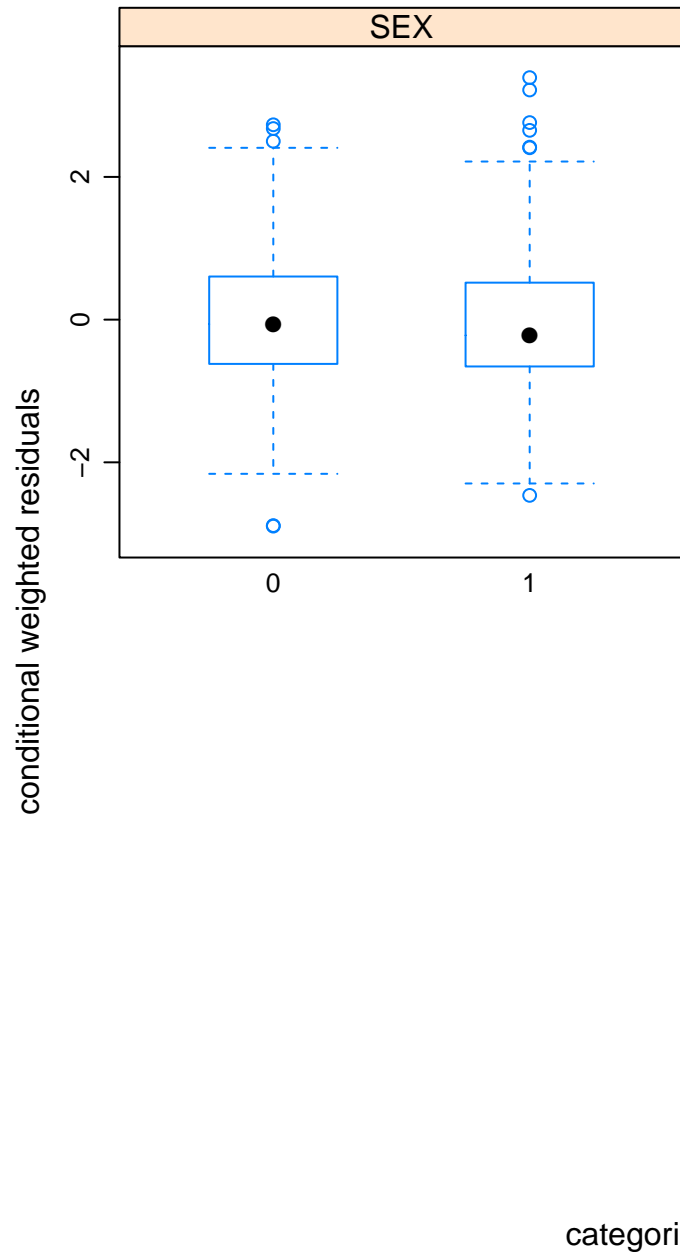


continuous covariate

Etas vs. Continuous Covariates

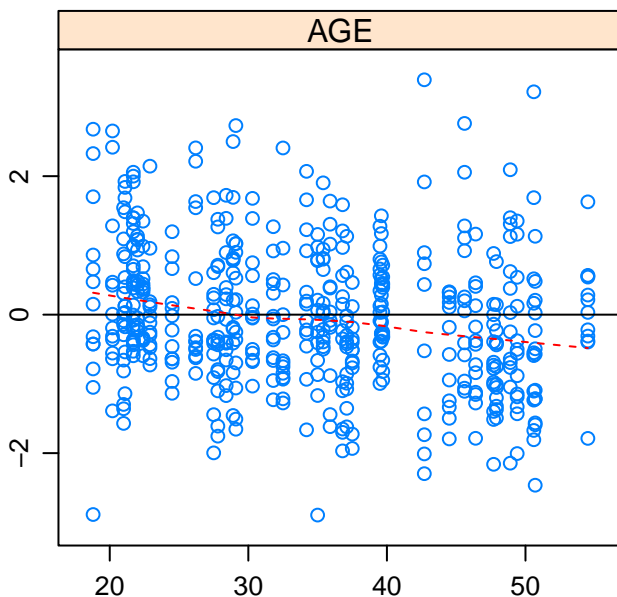
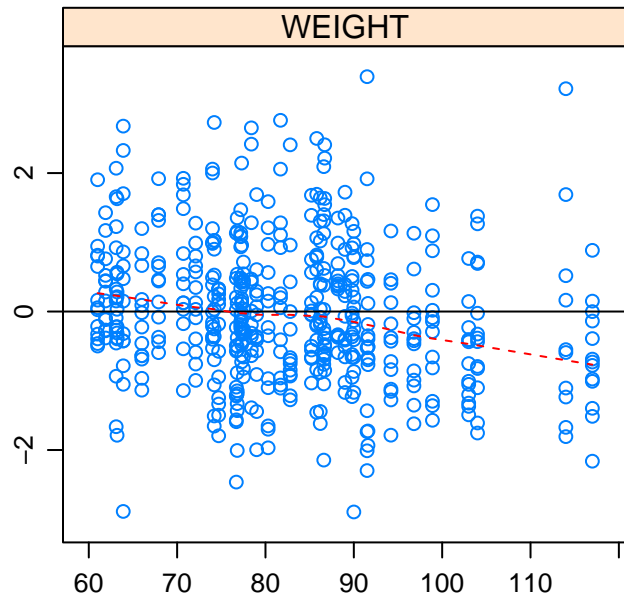
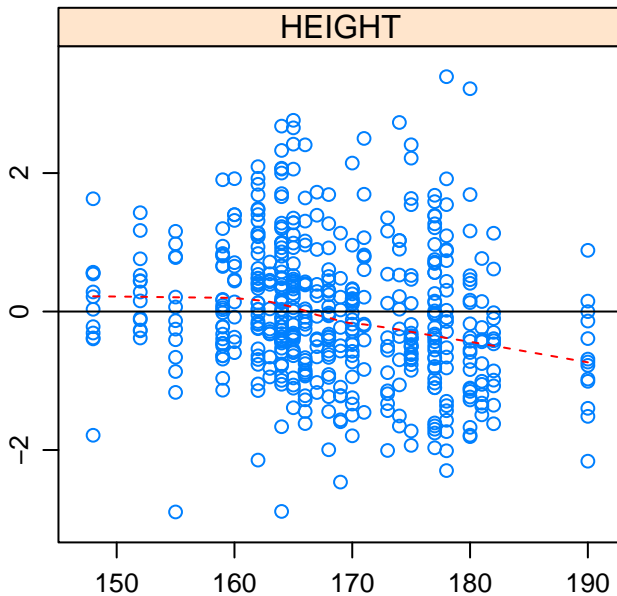


CWRES vs. Categorical Covariates



CWRES vs. Continuous Covariates

conditional weighted residuals



continuous covariate

Model 1003 parameter search



Model 1003 gradient search

