Model 1003
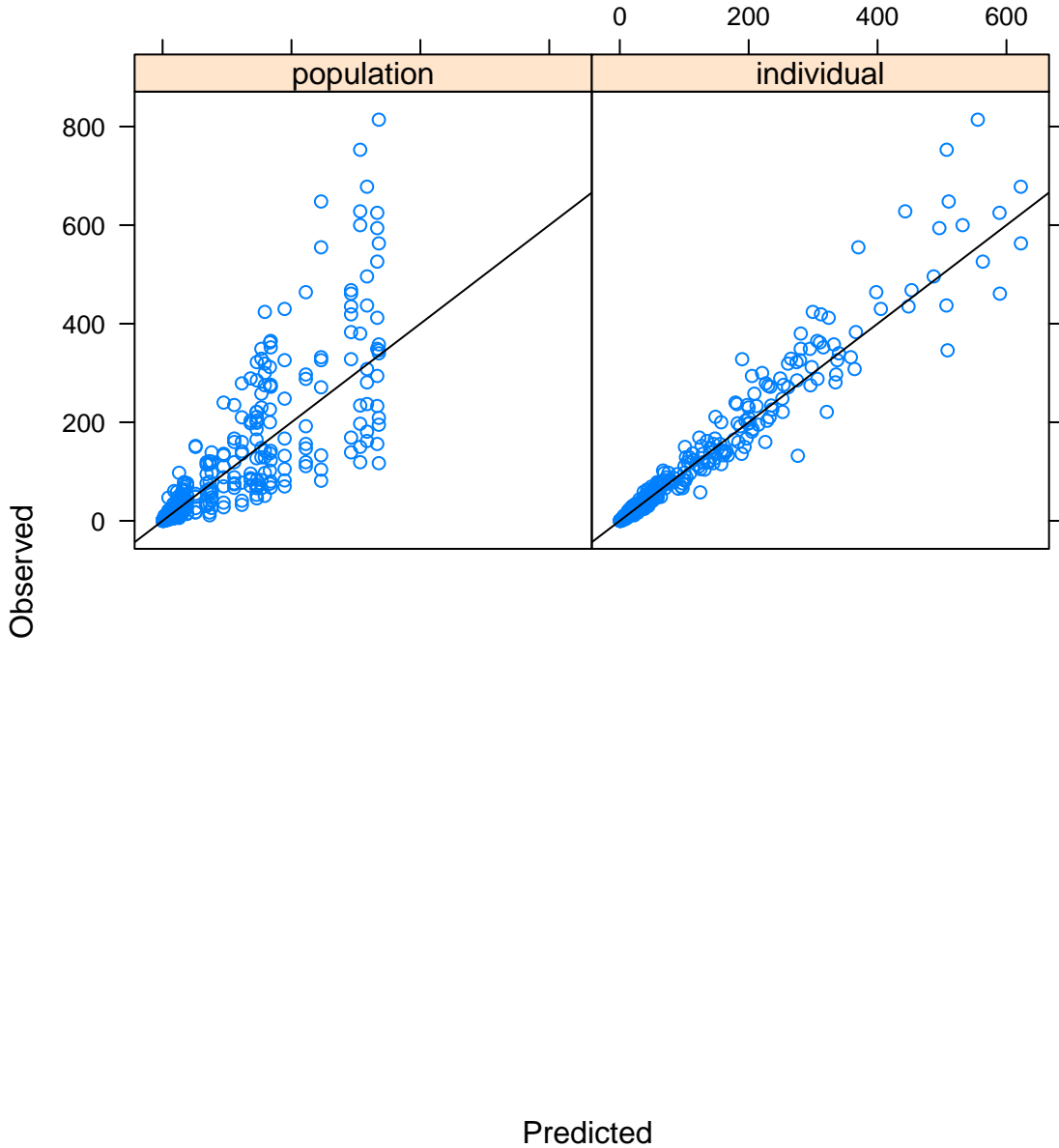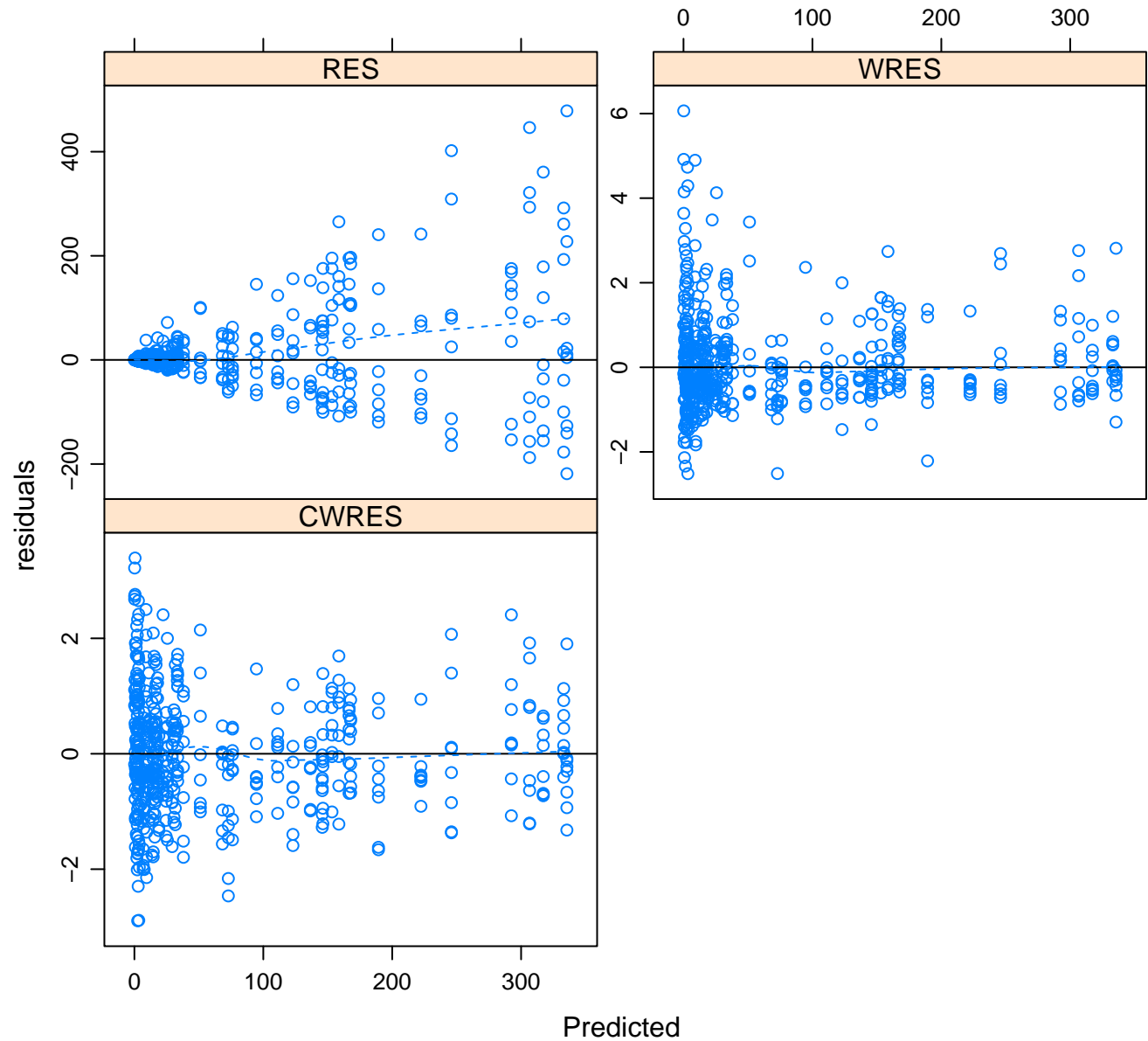**Observed vs. Predicted for all data**
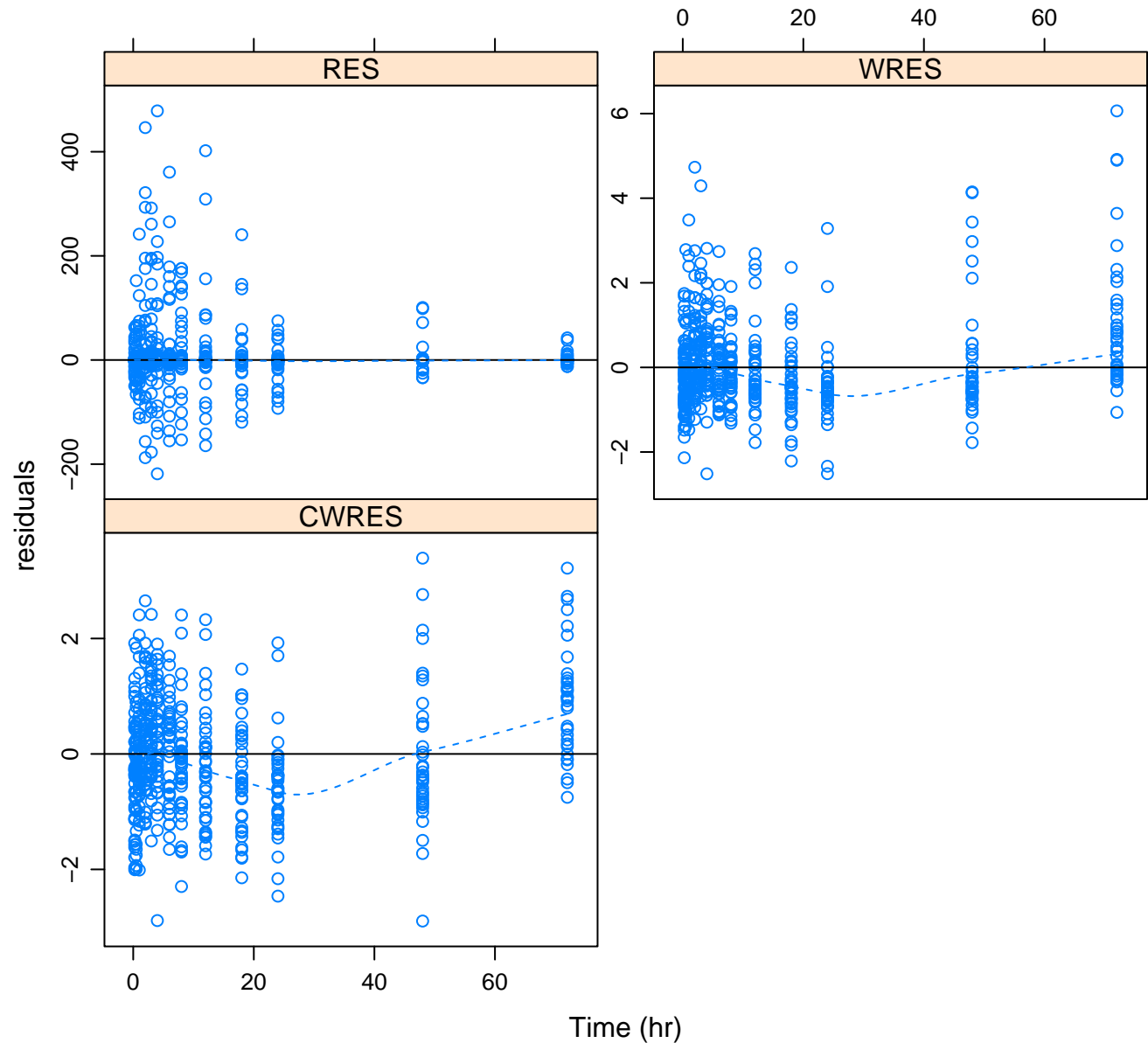
Model 1003
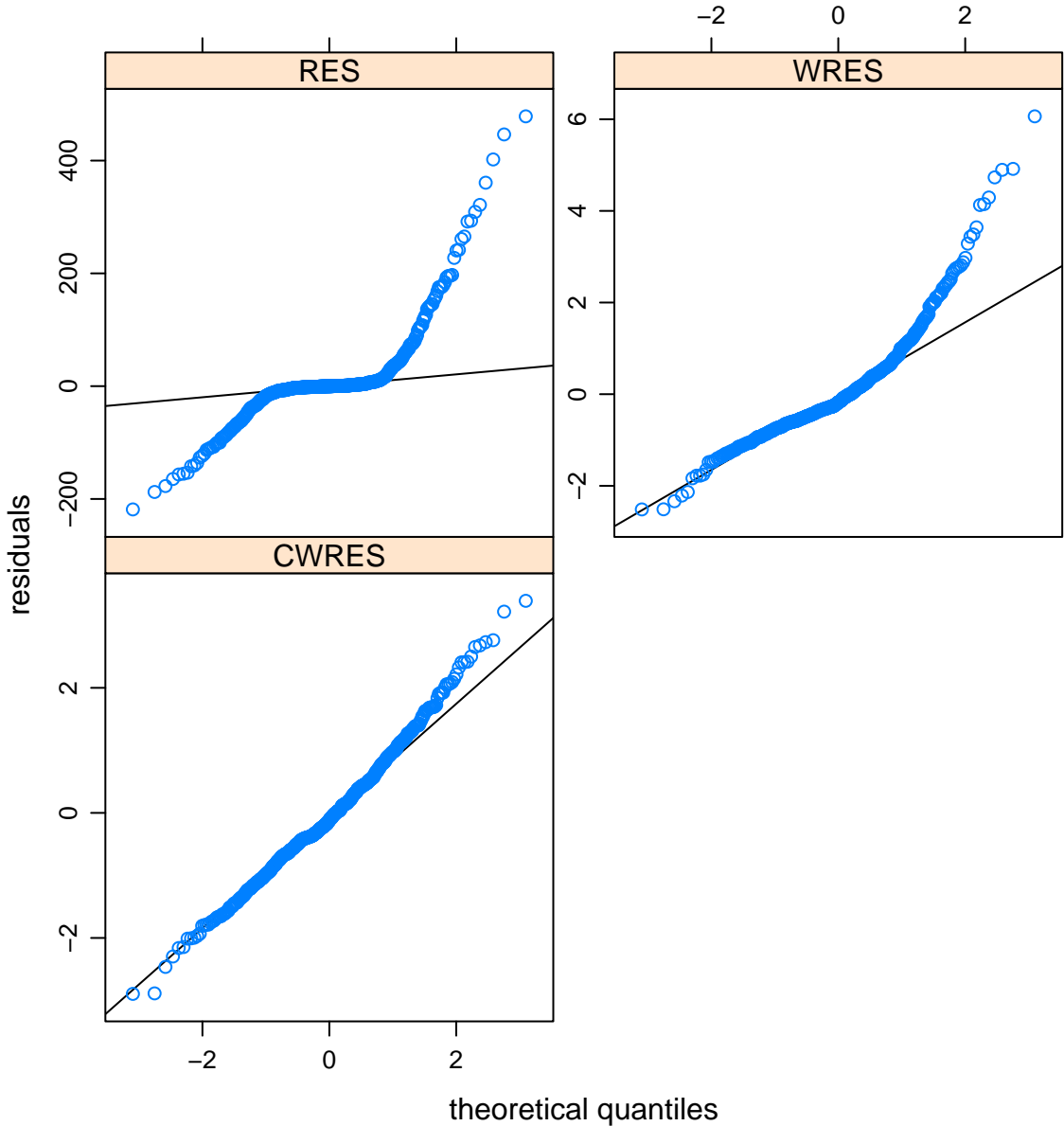**Residuals vs. Predicted for all data**

Model 1003
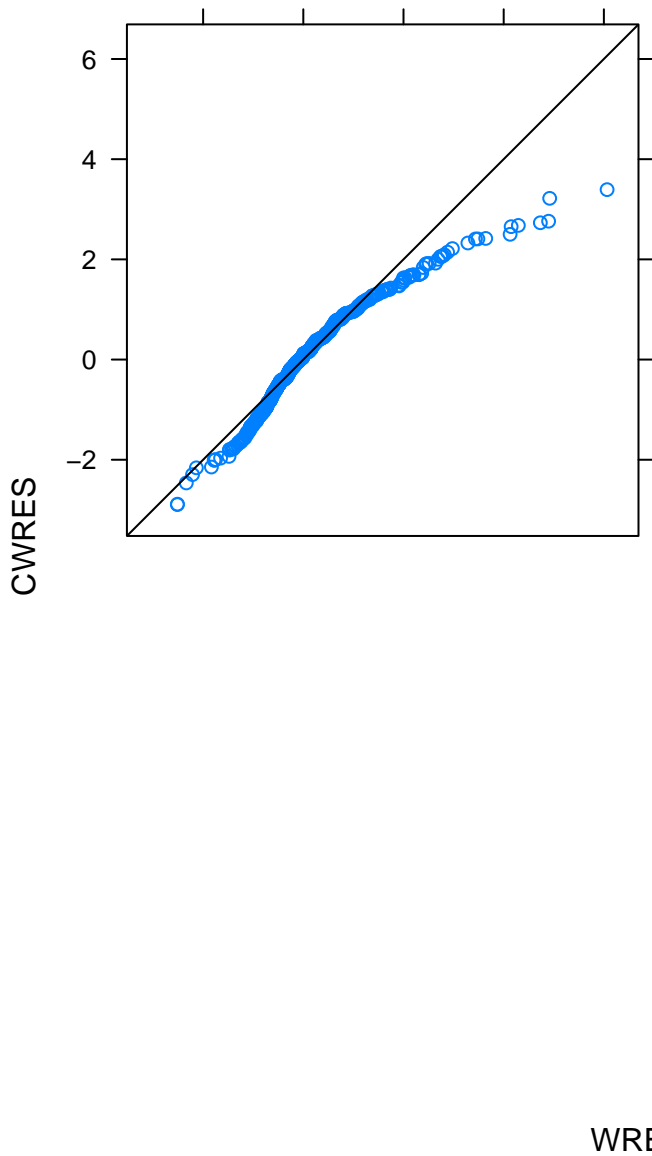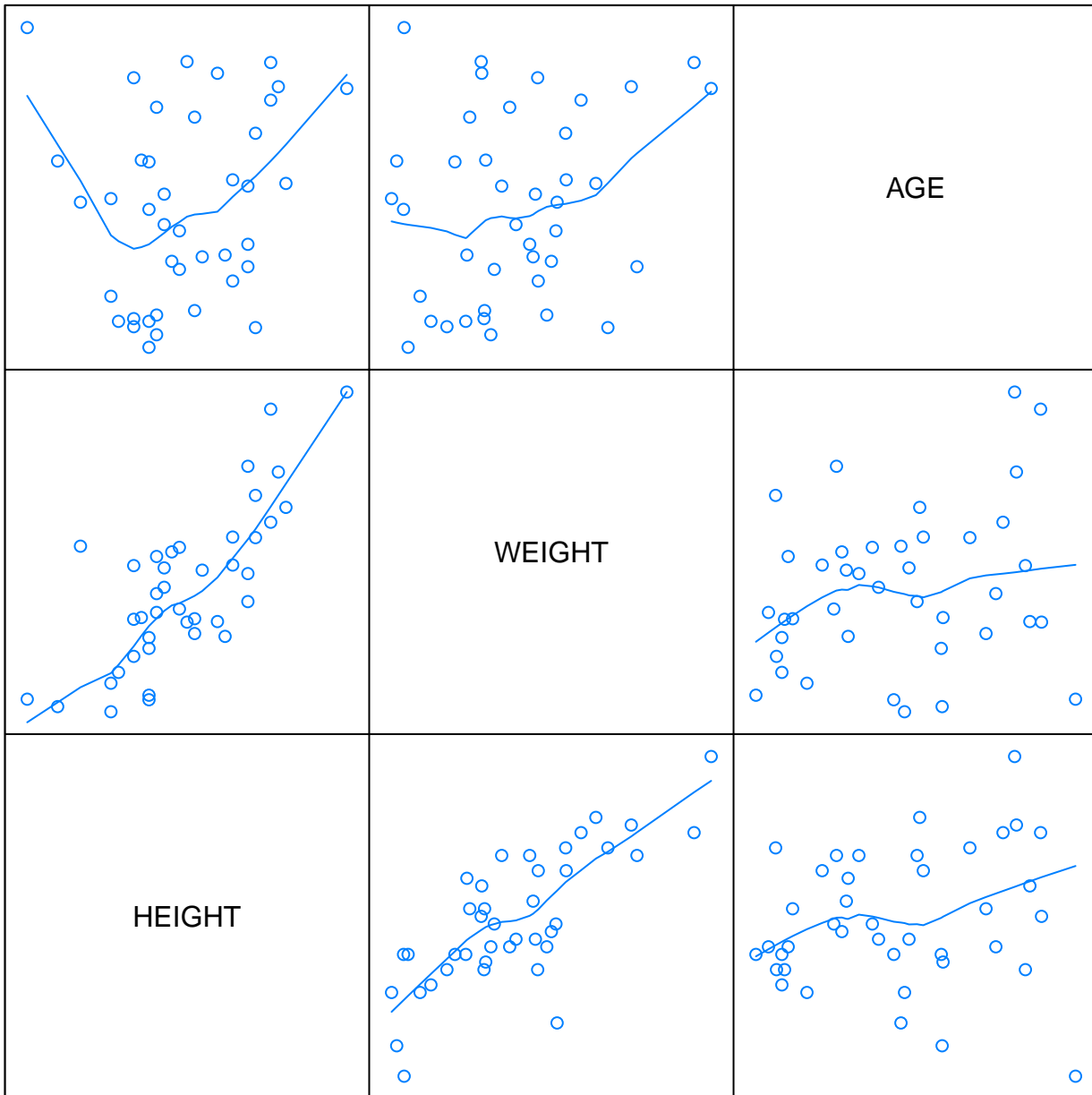**Residuals vs. Time for all data**

Model 1003
Normal Q-Q Plot Residuals for all data
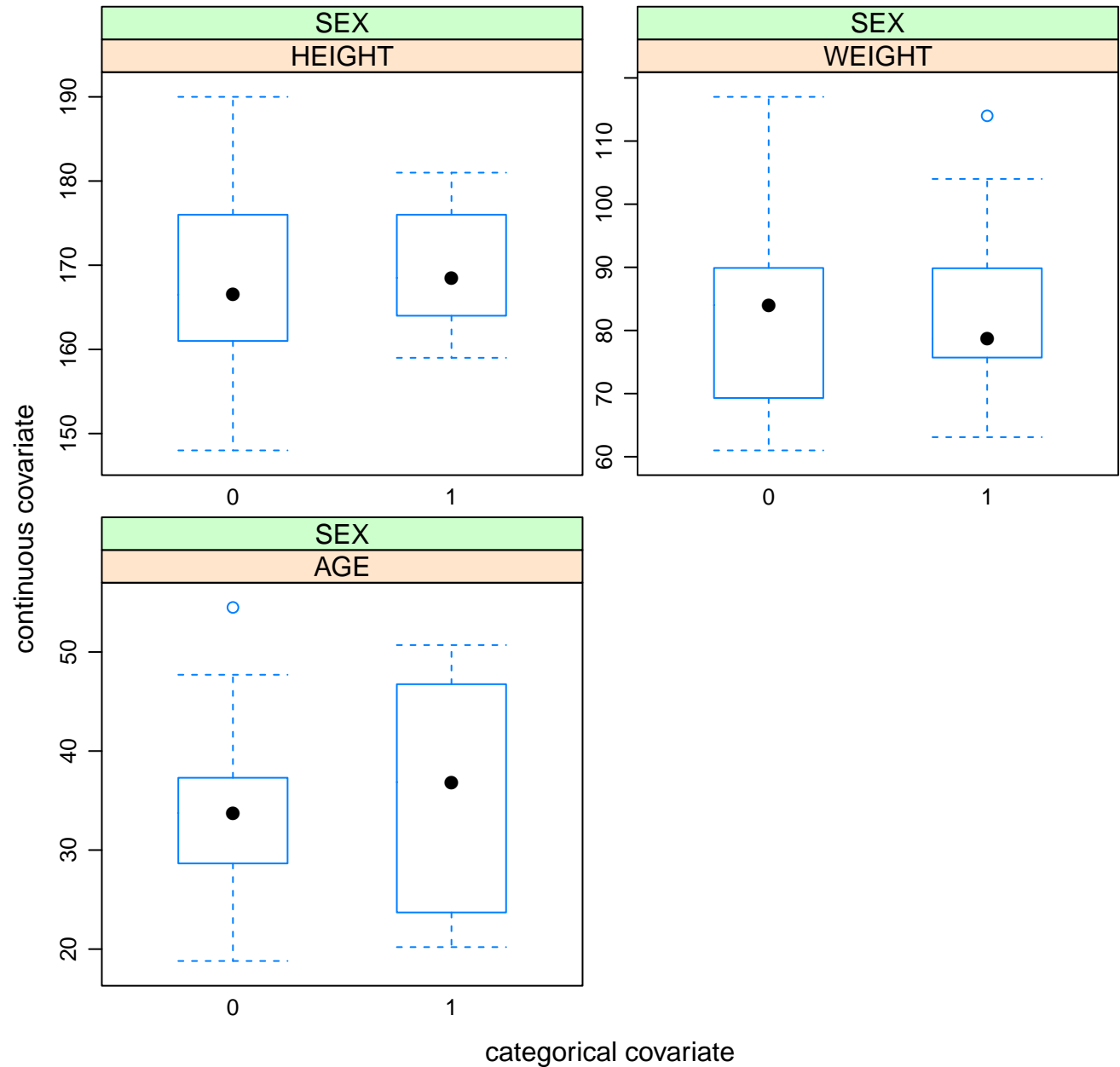
Model 1003
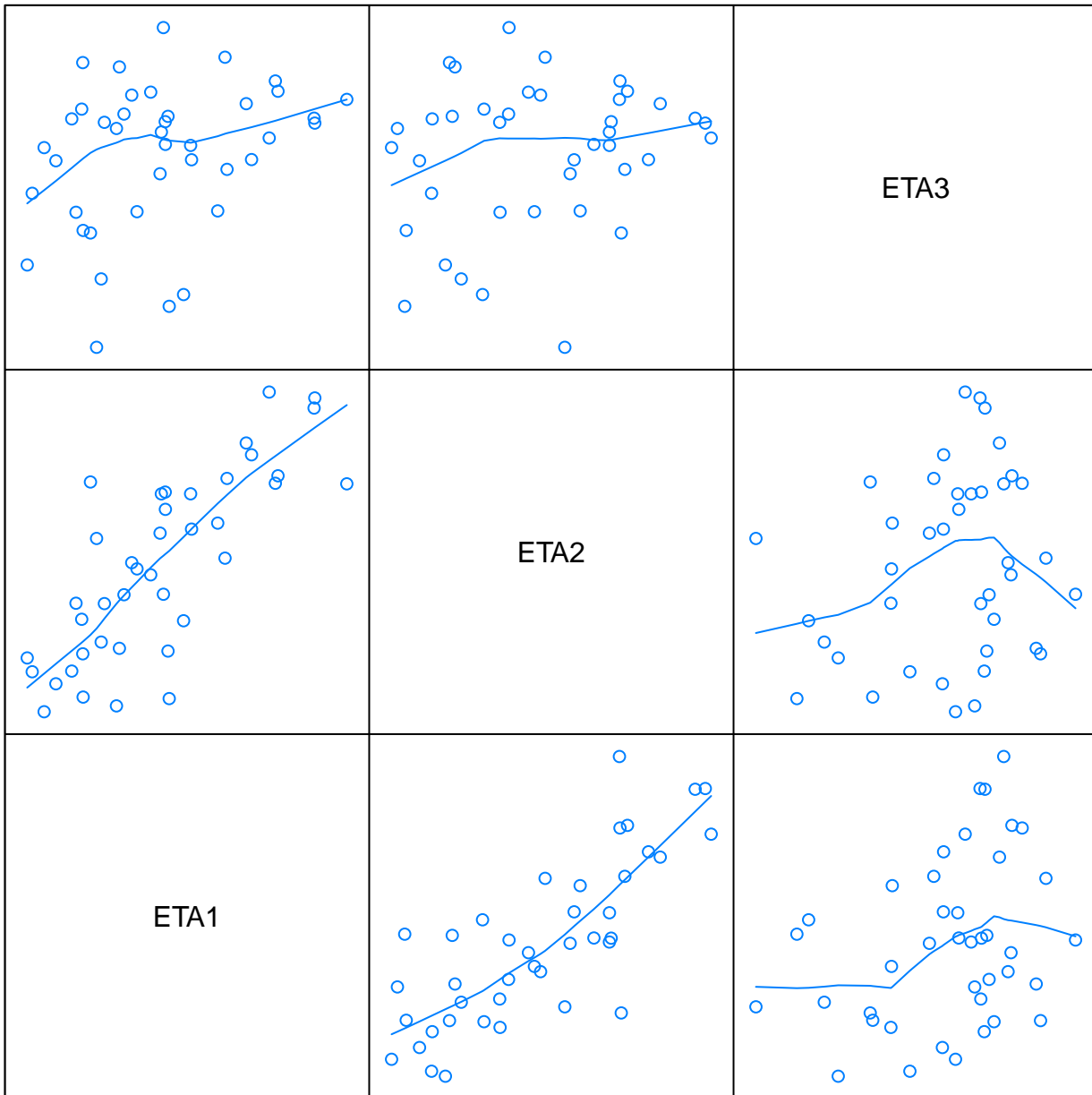## Q–Q Plot of CWRES vs. WRES for all data
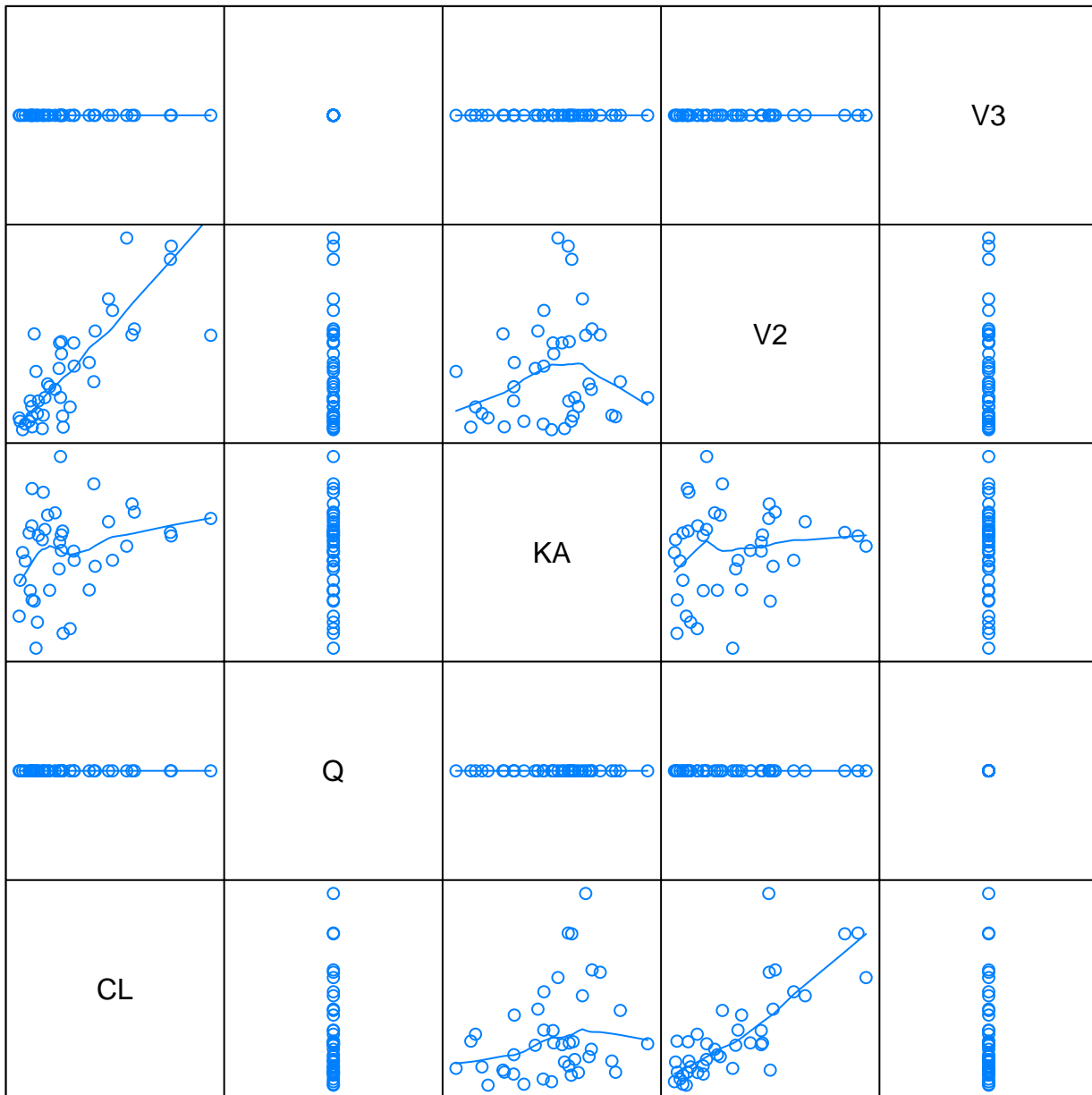

CWRES

WRES

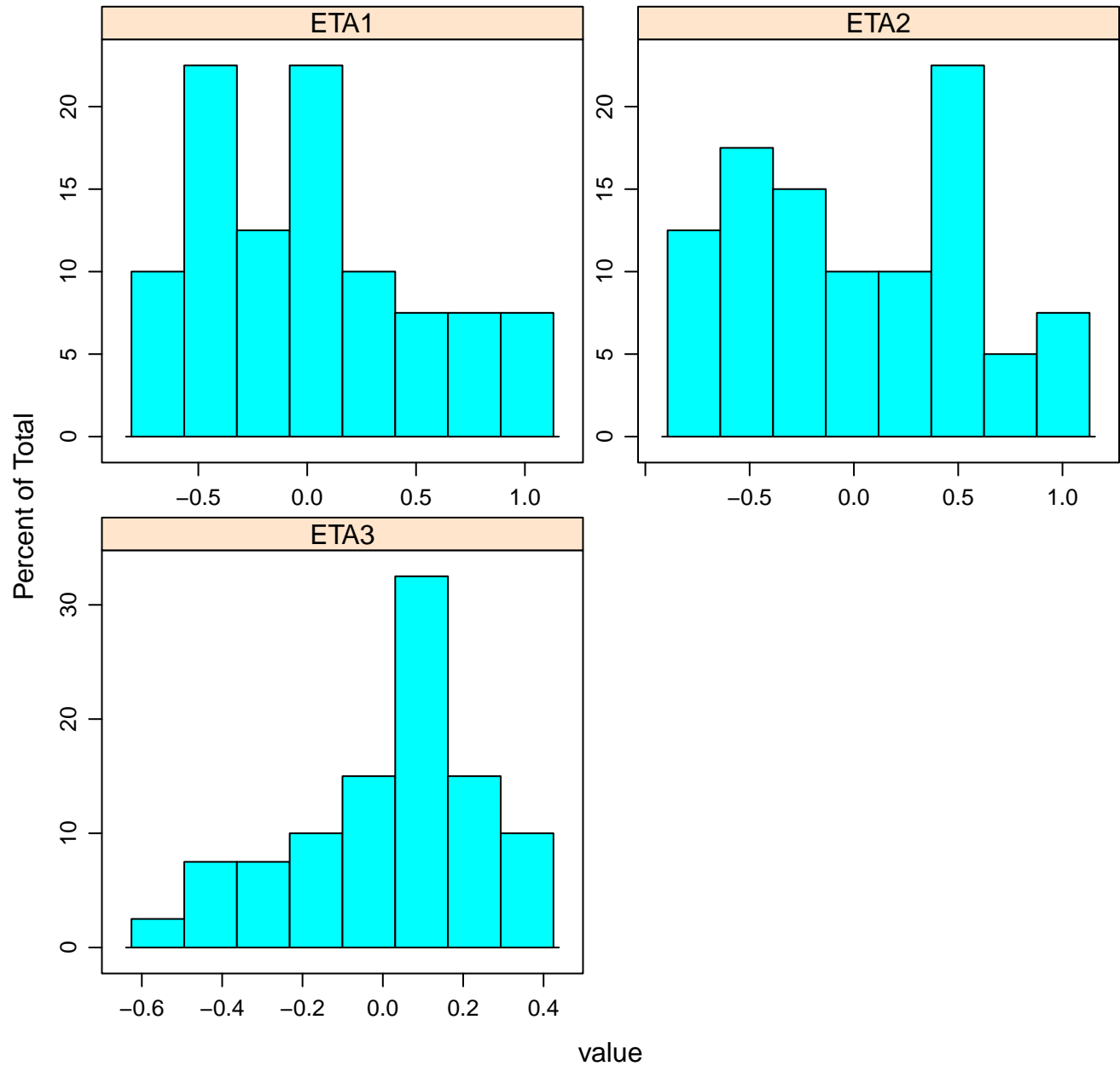# Covariate Scatterplots

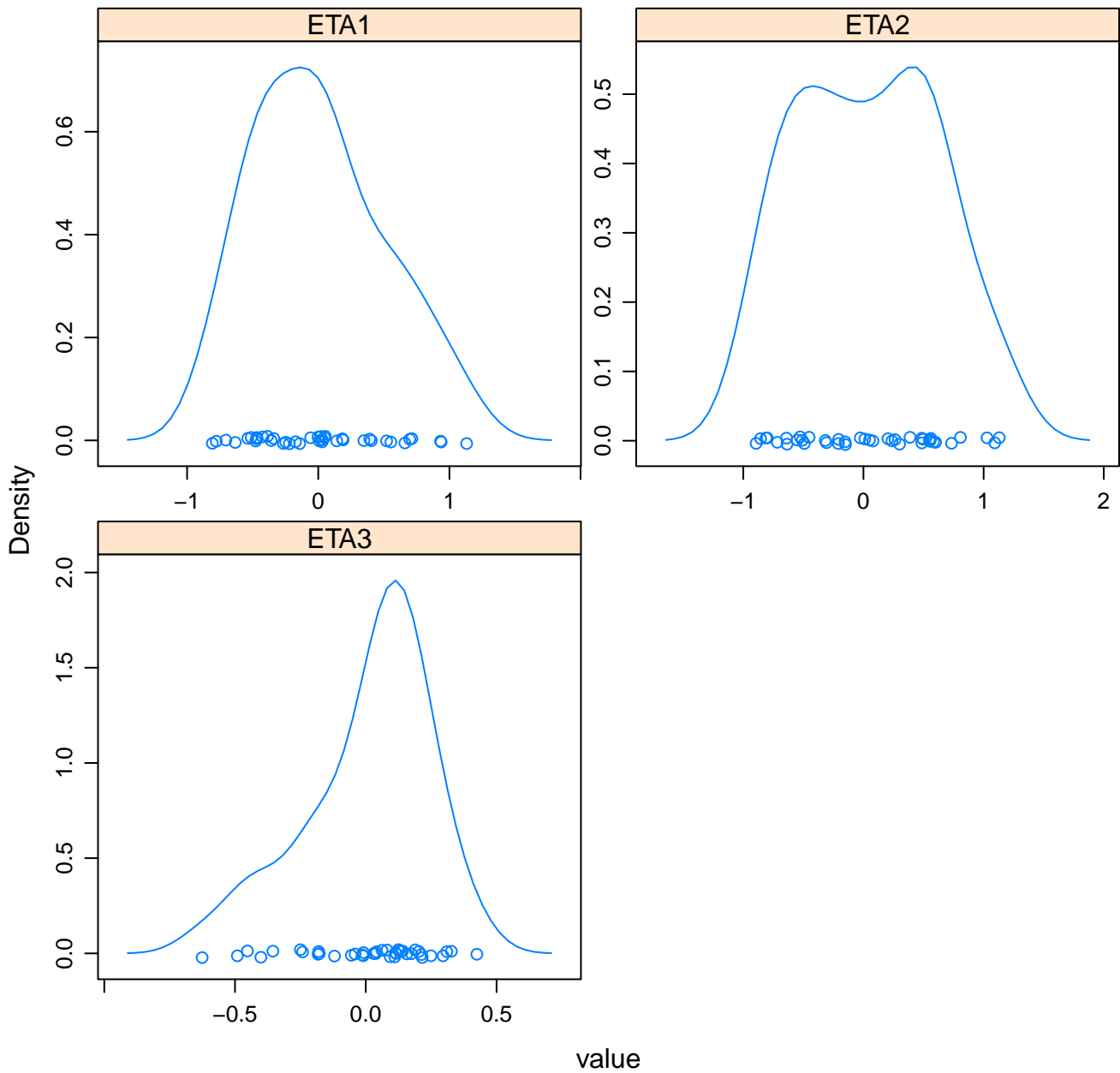# Continuous Covariates vs. Categorical Covariates
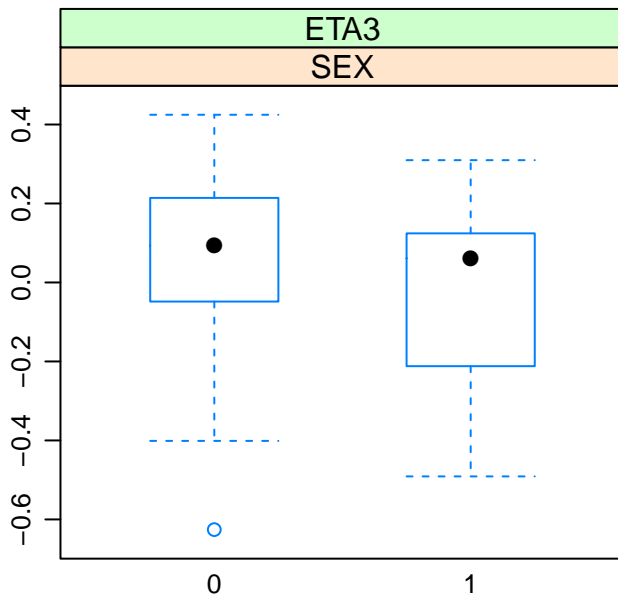
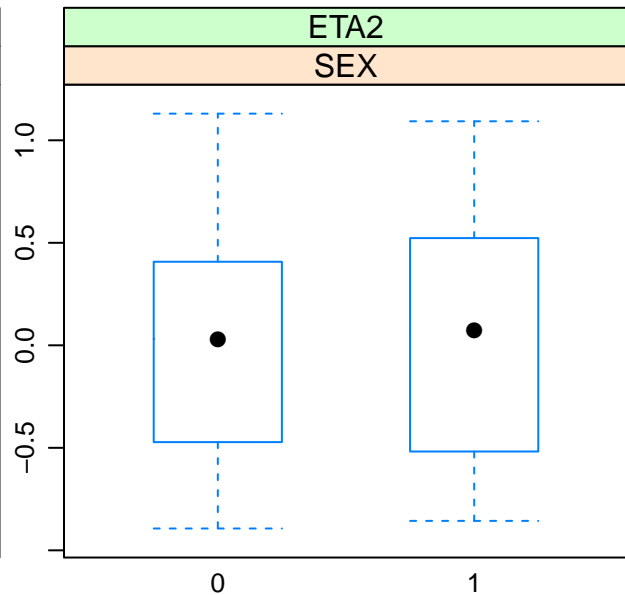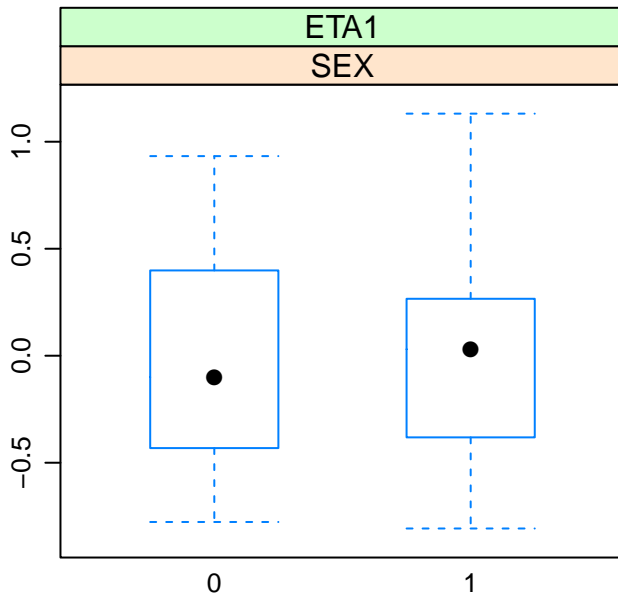# ETA Scatterplots
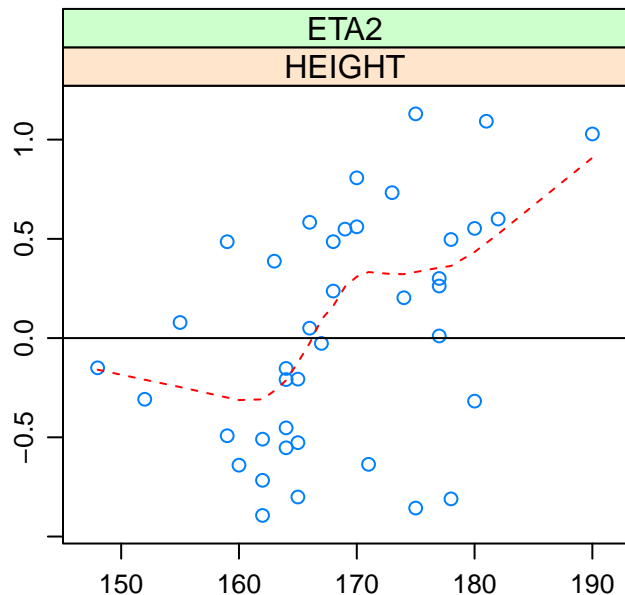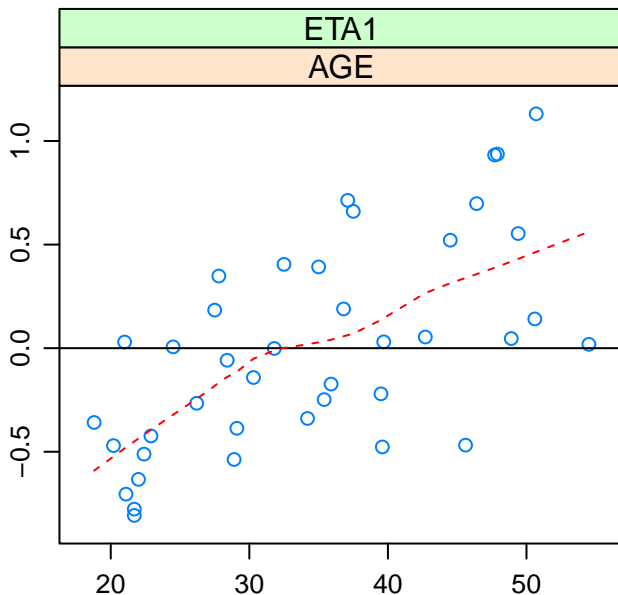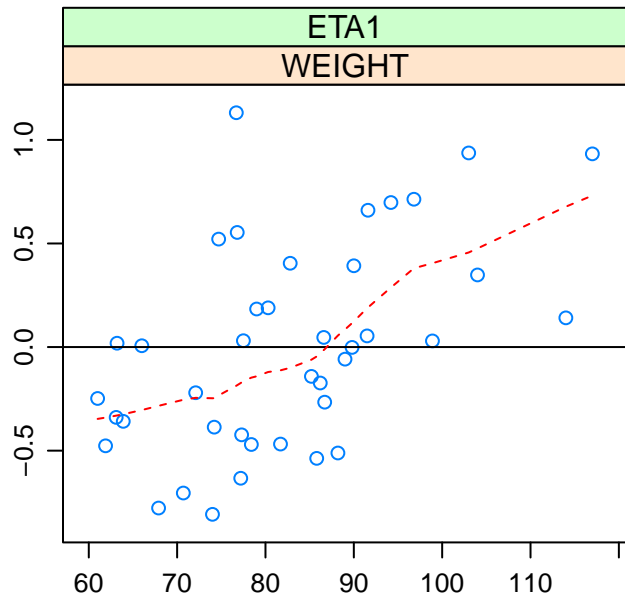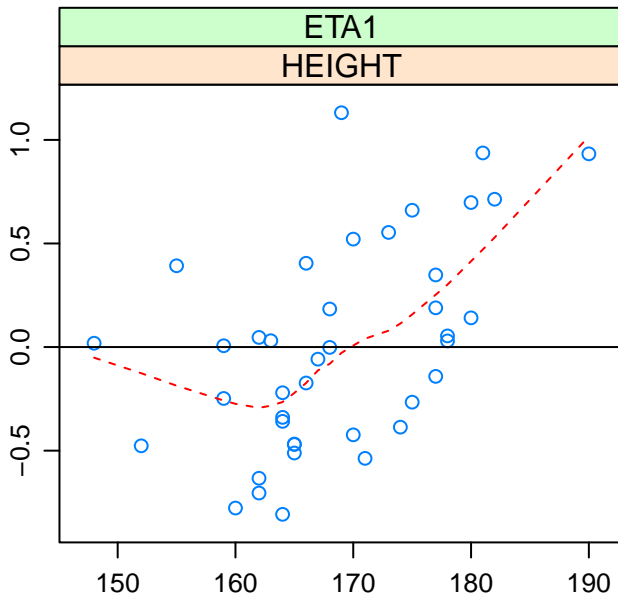
Parameter Scatterplots

Histograms of Etas

Density of Etas

Boxplots of Etas by Categorical Covariate
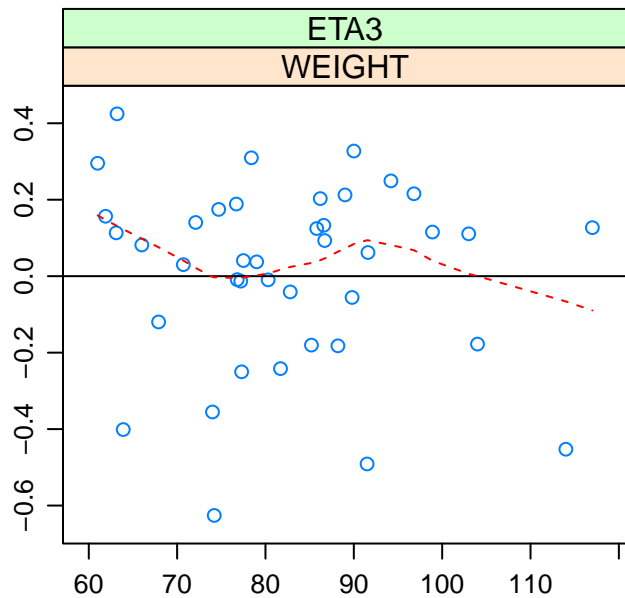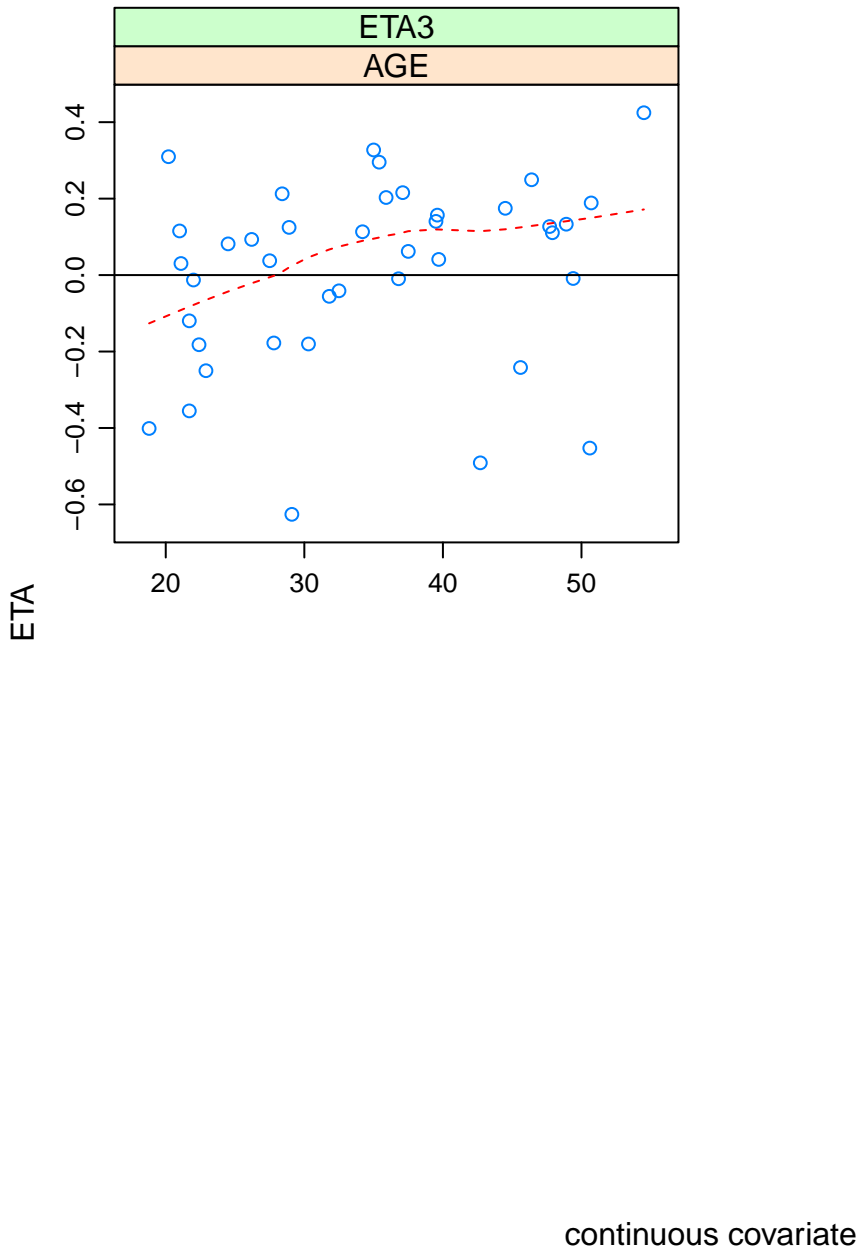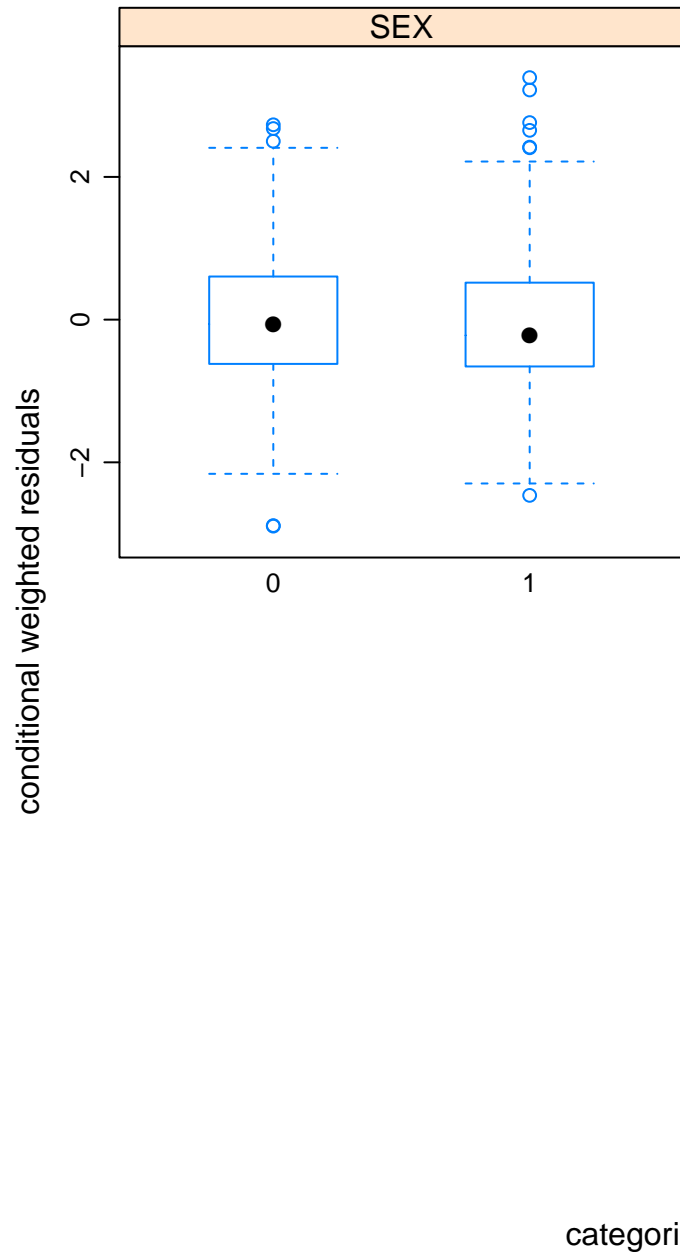
Etas vs. Continuous Covariates

Etas vs. Continuous Covariates

Etas vs. Continuous Covariates
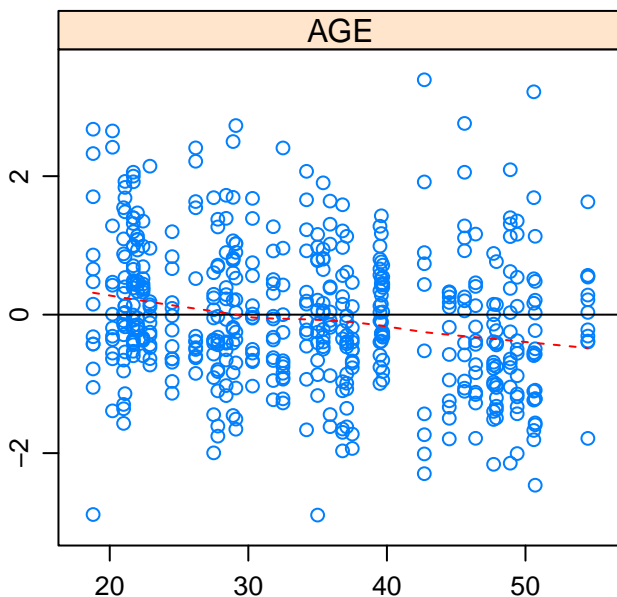
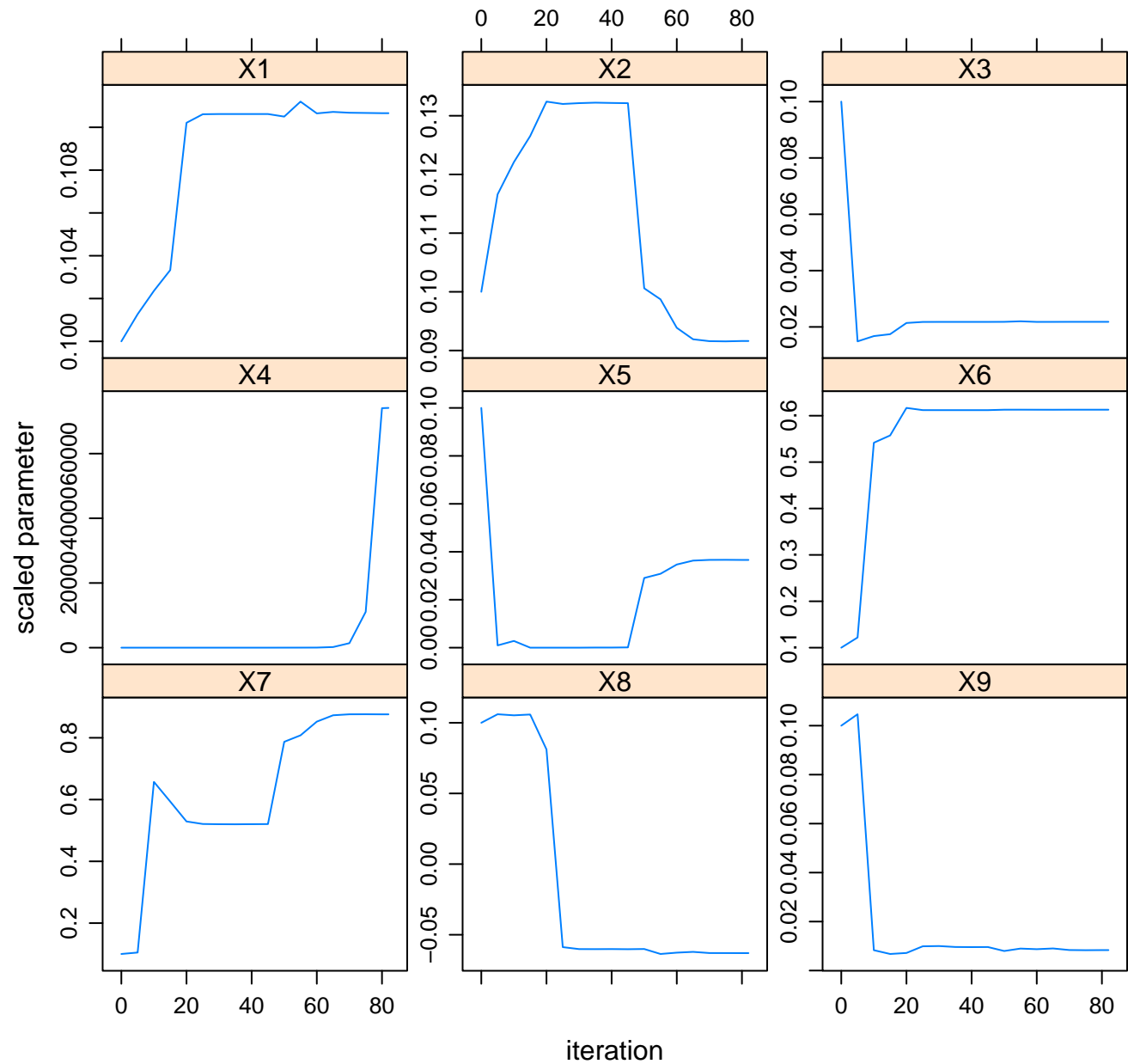# CWRES vs. Categorical Covariates
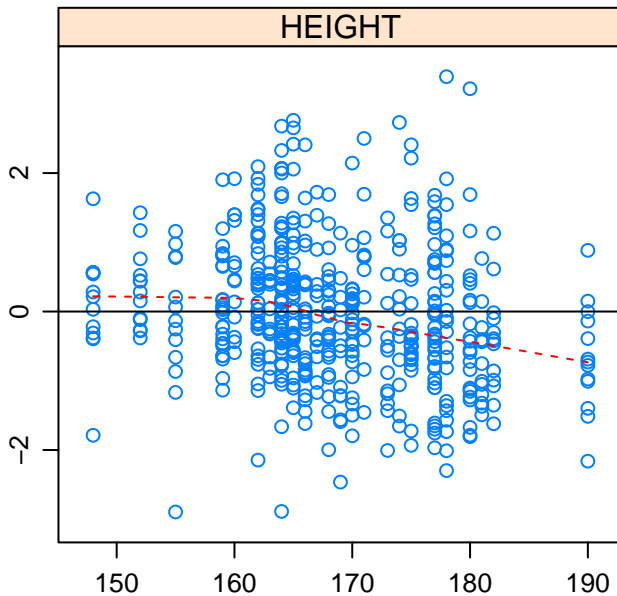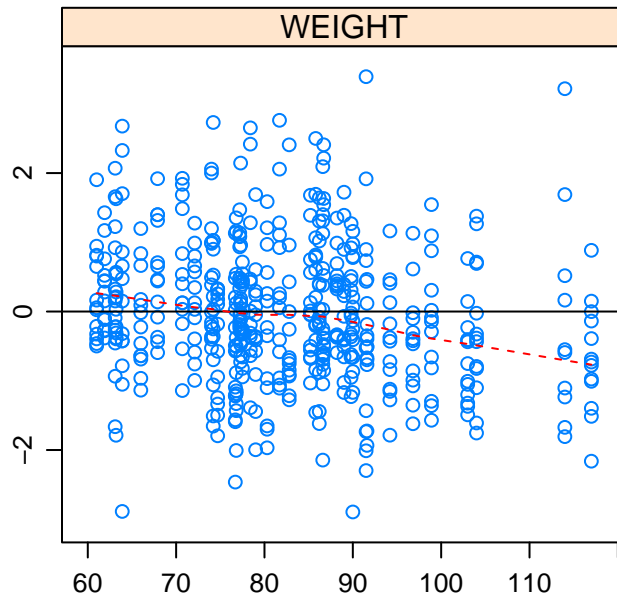
CWRES vs. Continuous Covariates

Model 1003 parameter search

Model 1003 gradient search