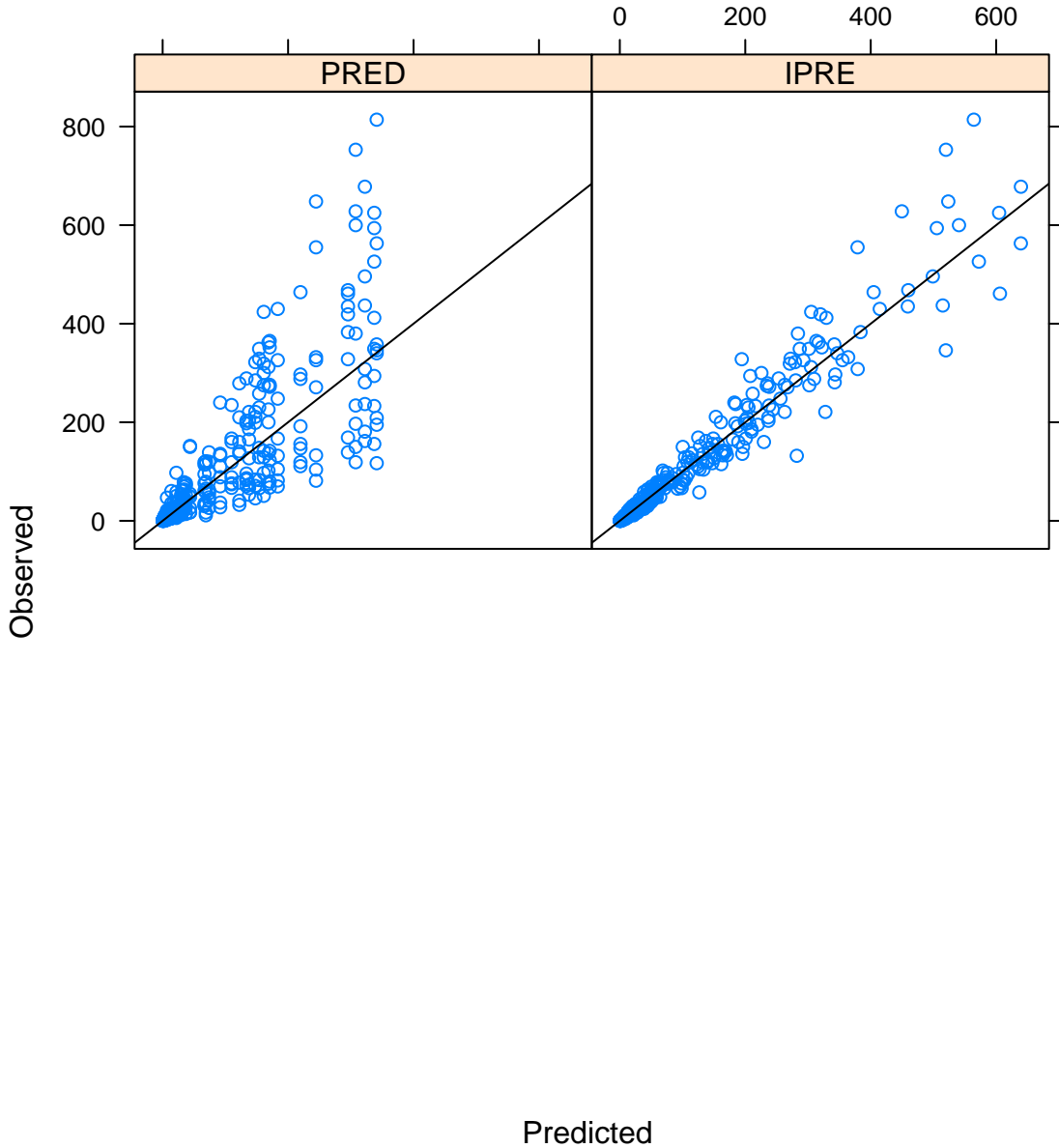


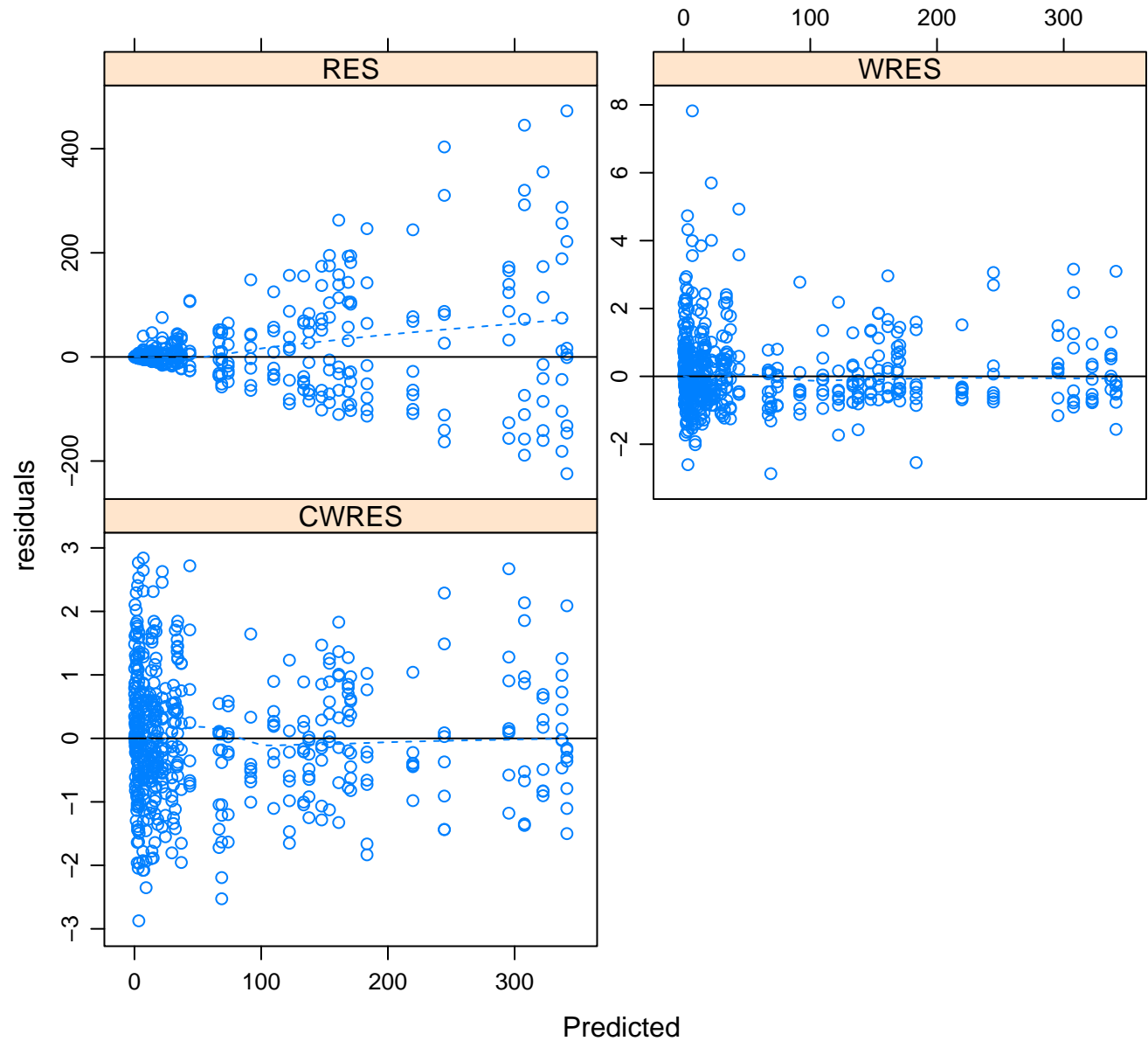
# Model 1001

## Observed vs. Predicted for all data



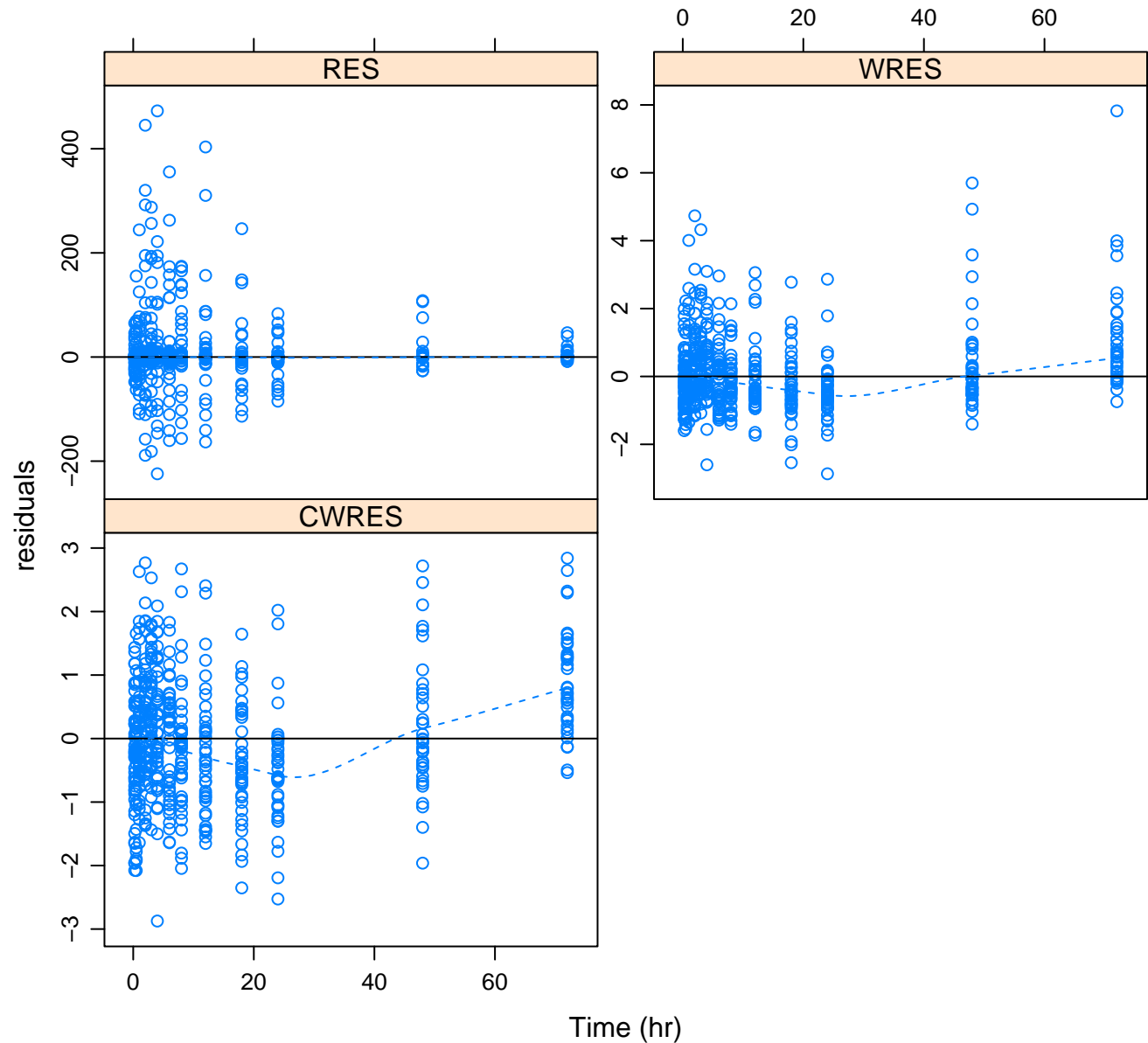
# Model 1001

## Residuals vs. Predicted for all data



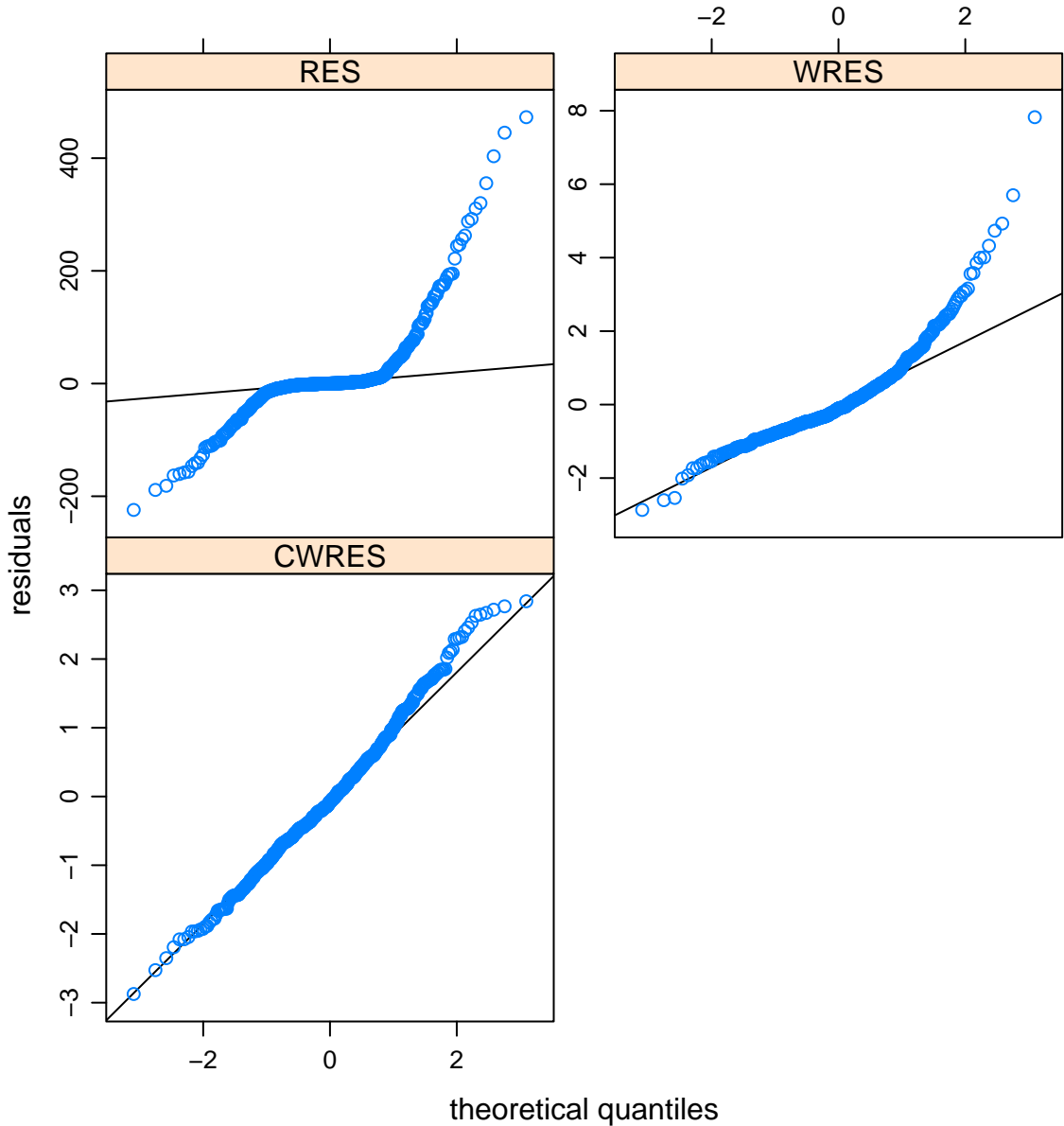
# Model 1001

## Residuals vs. Time for all data



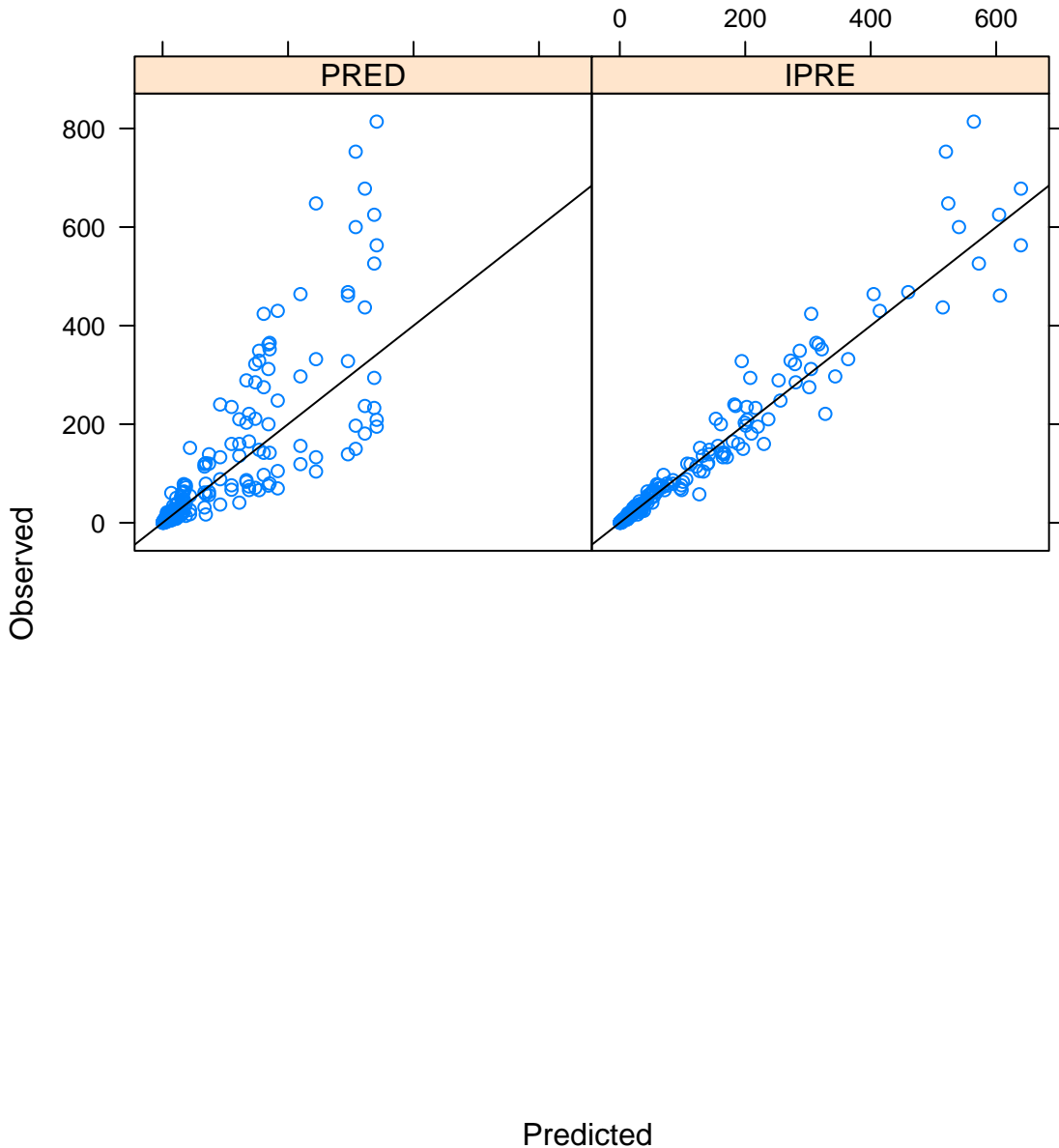
# Model 1001

## Normal Q-Q Plot Residuals for all data



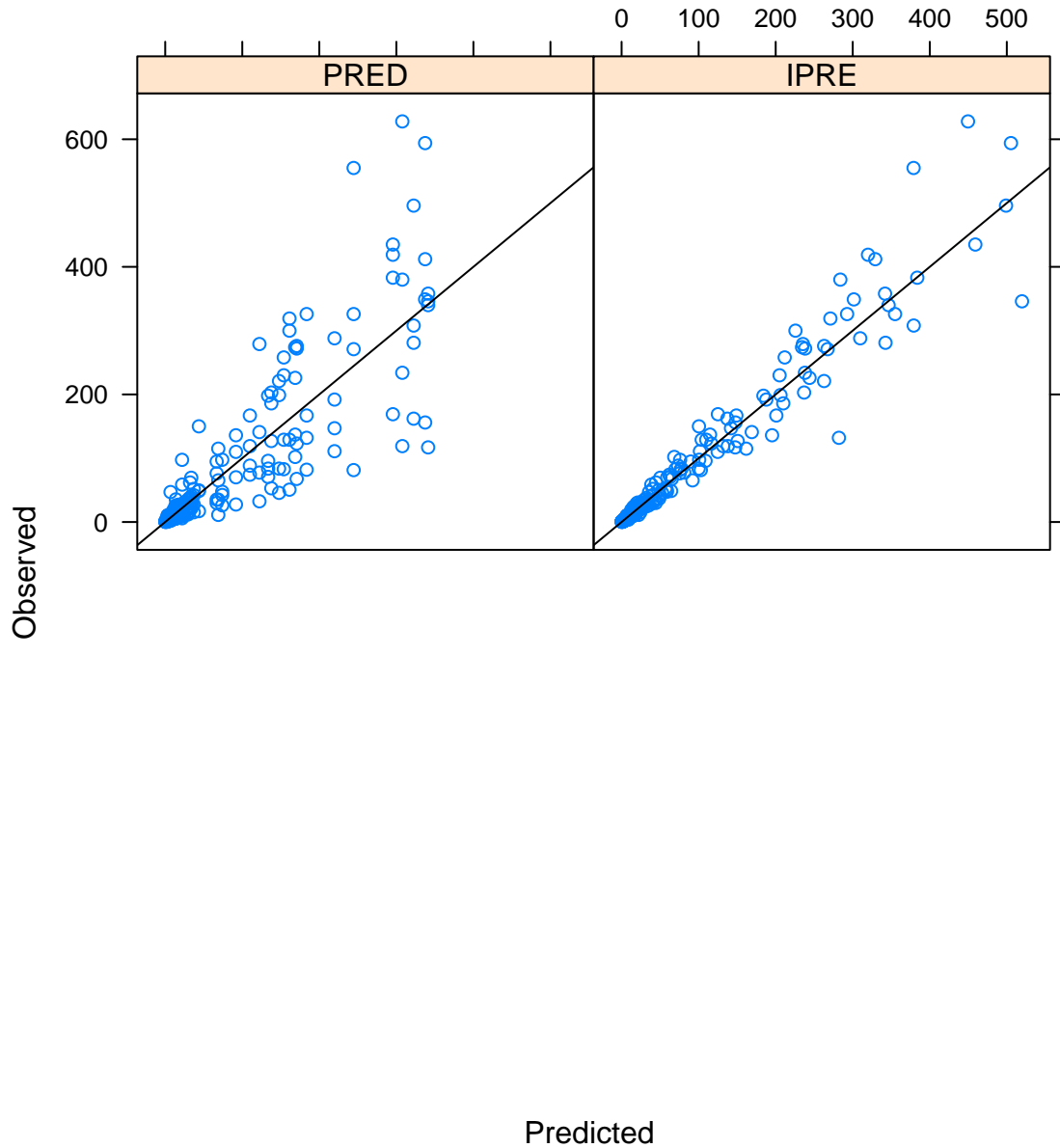
# Model 1001

## Observed vs. Predicted for female data



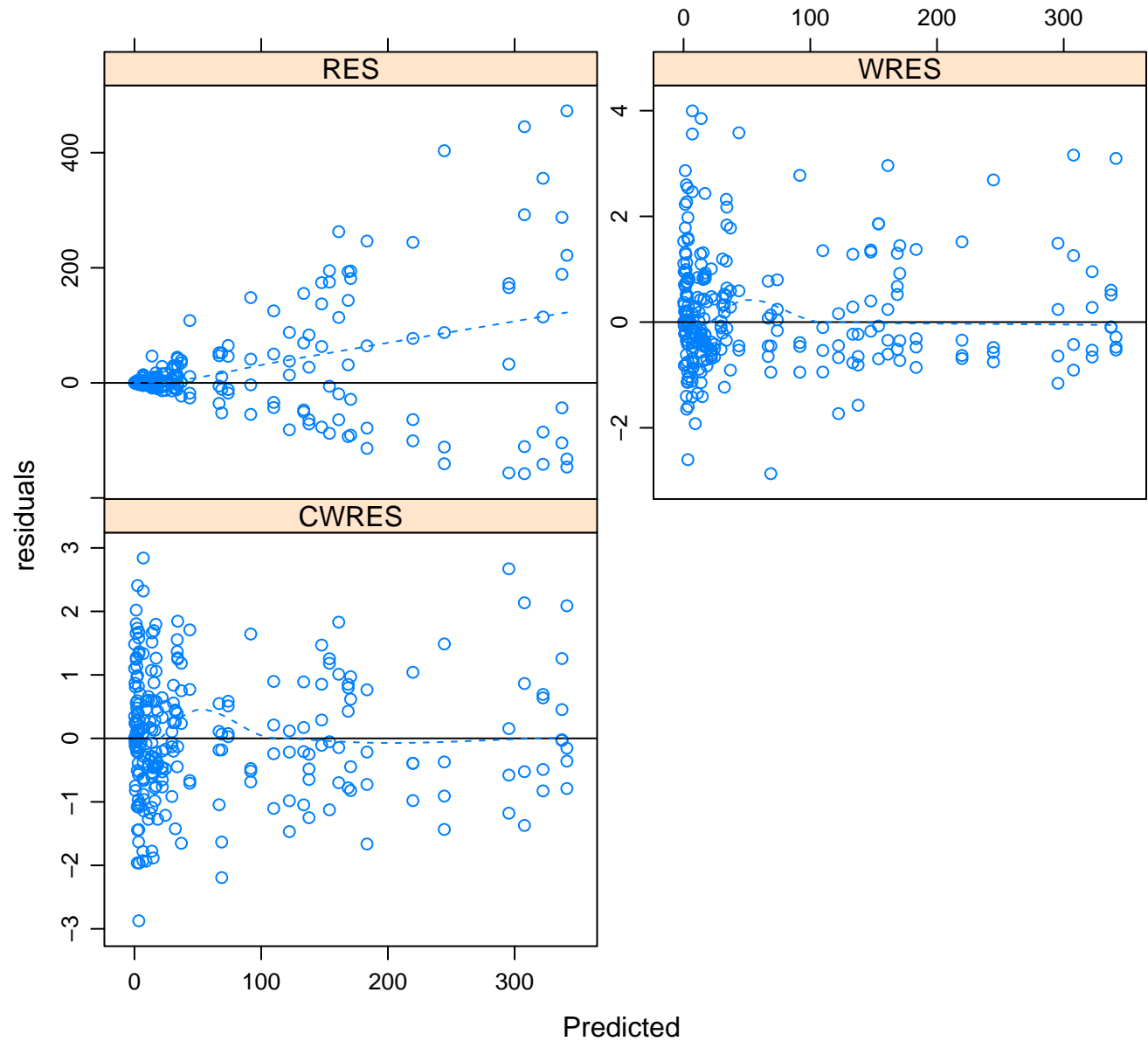
# Model 1001

## Observed vs. Predicted for male data



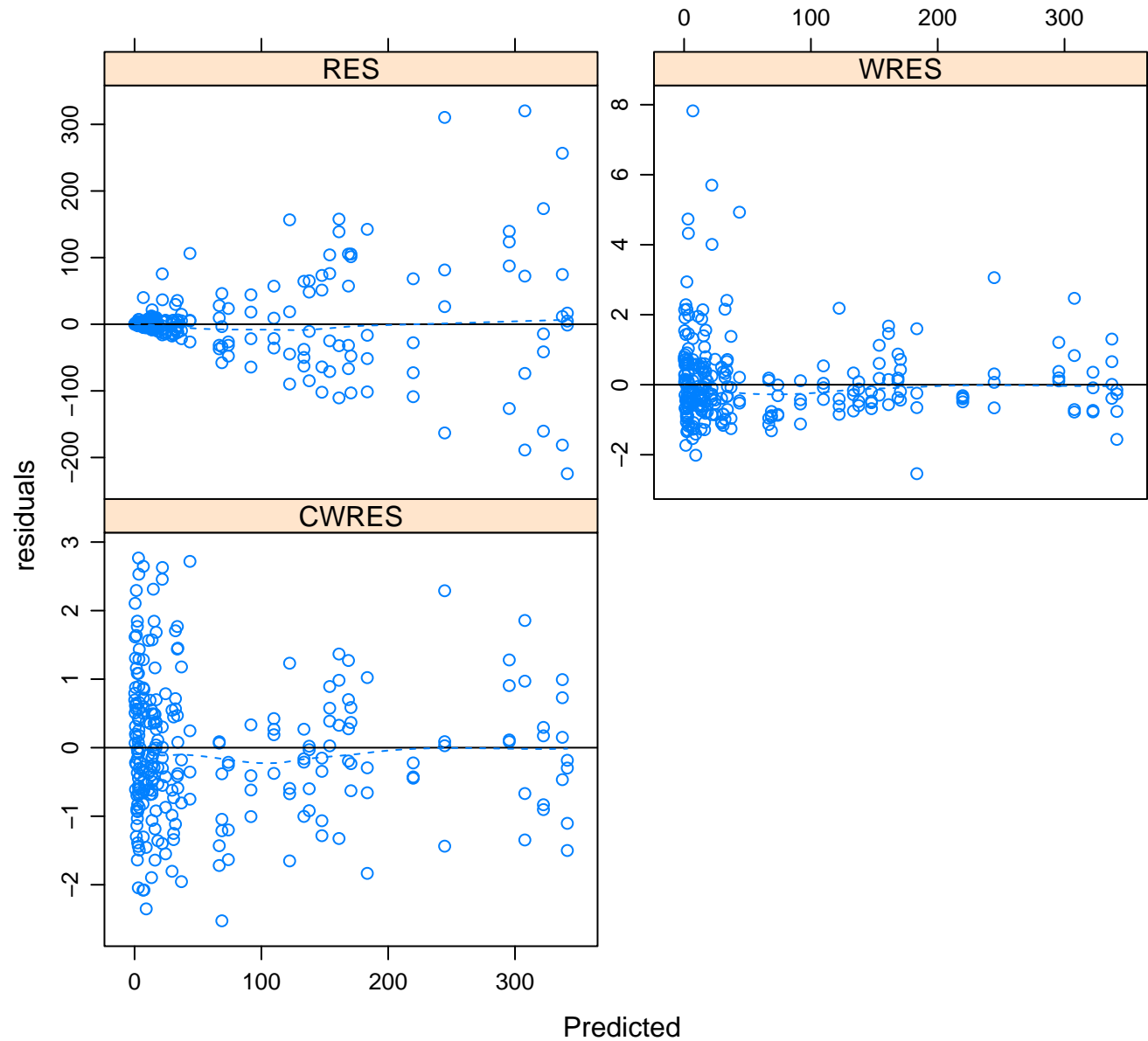
# Model 1001

## Residuals vs. Predicted for female data



# Model 1001

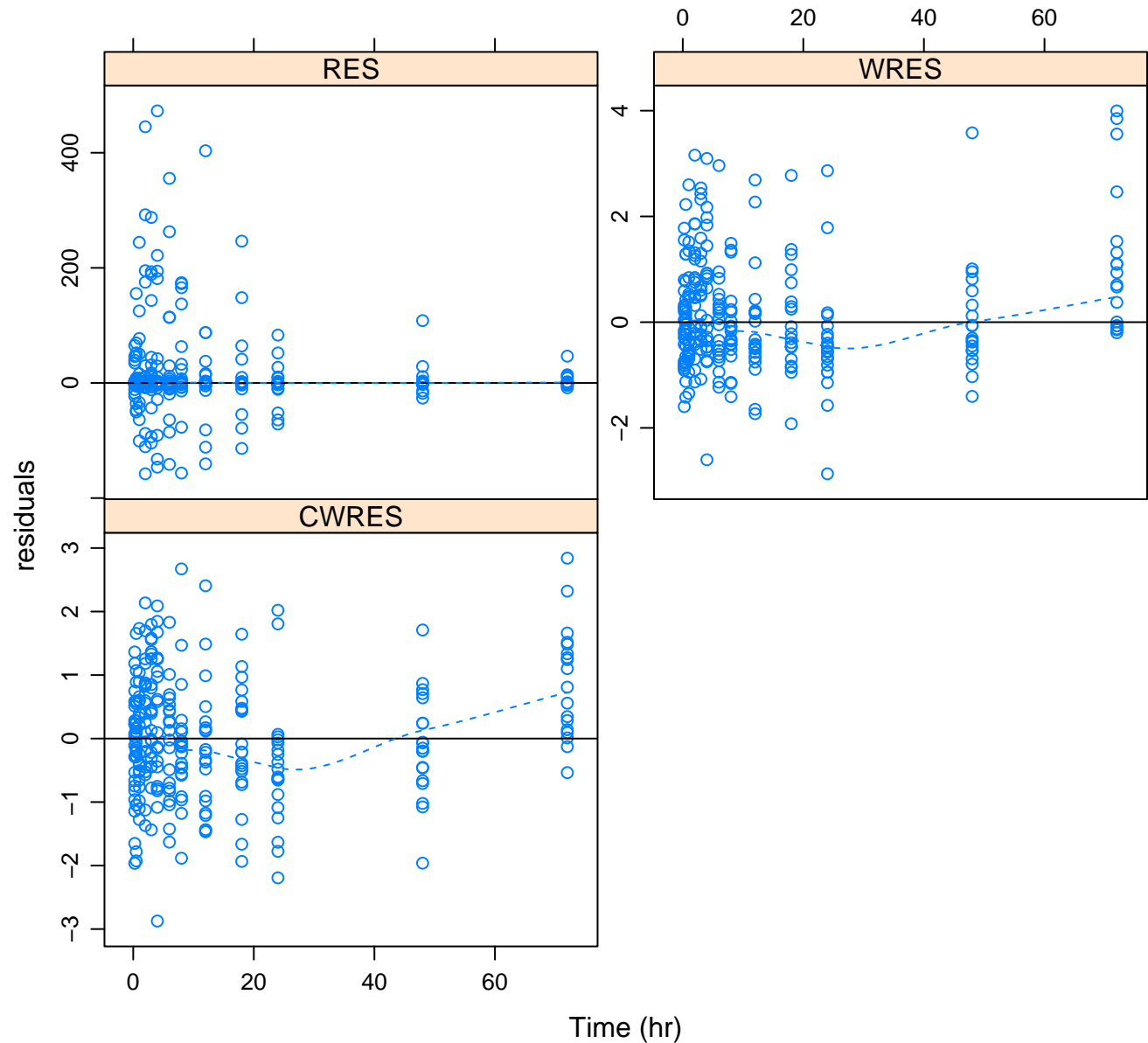
## Residuals vs. Predicted for male data





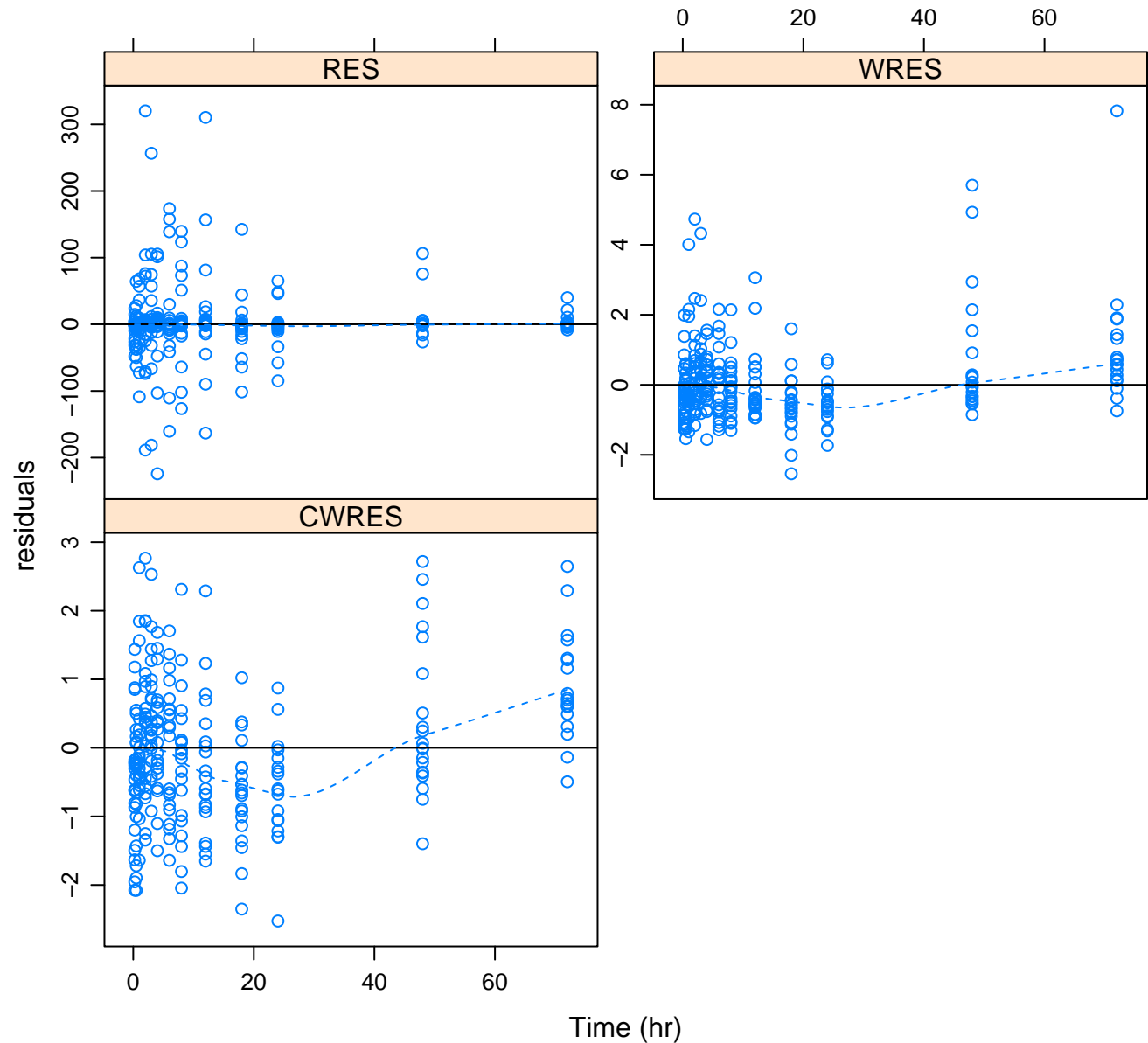
# Model 1001

## Residuals vs. Time for female data



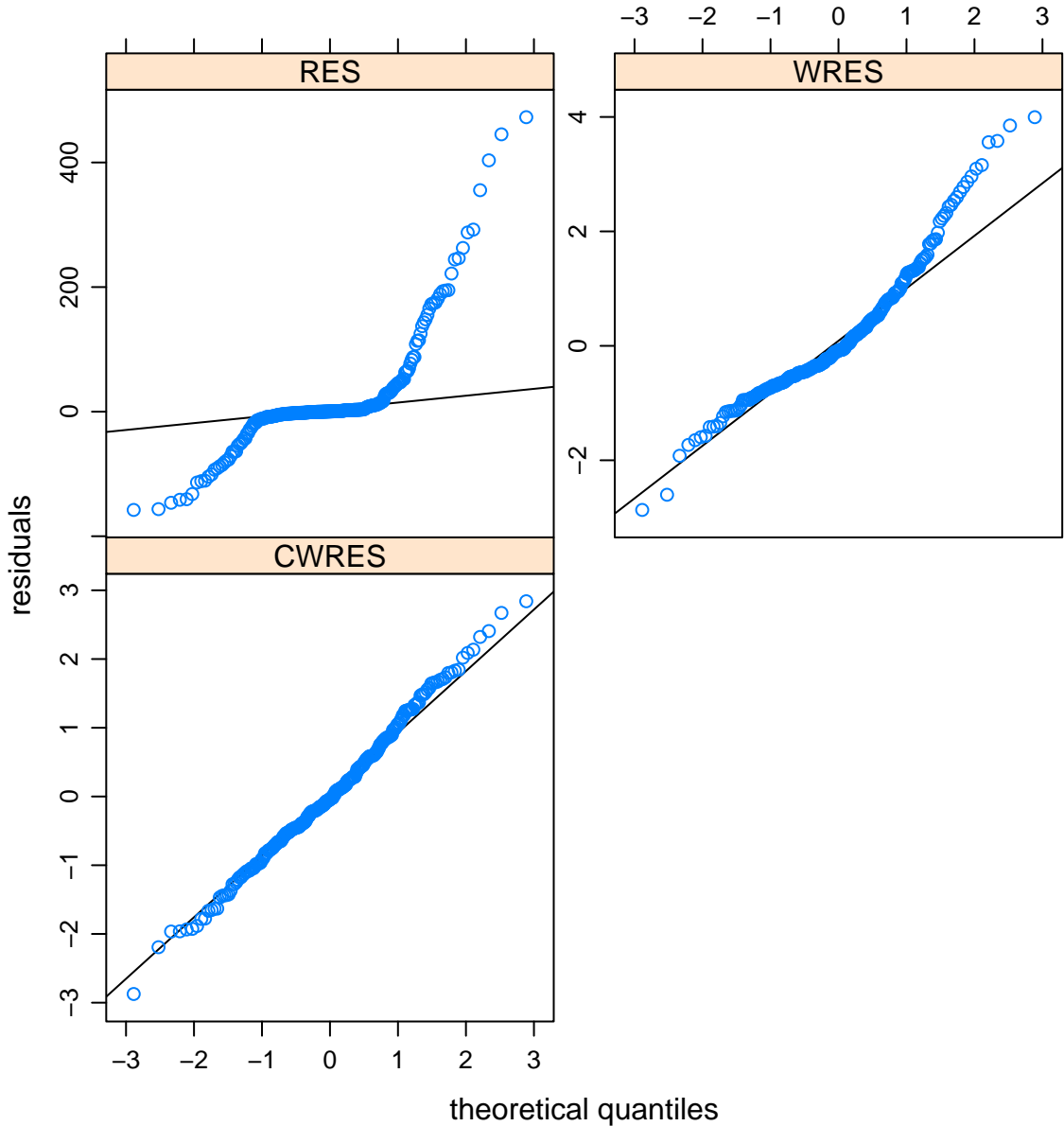
# Model 1001

## Residuals vs. Time for male data



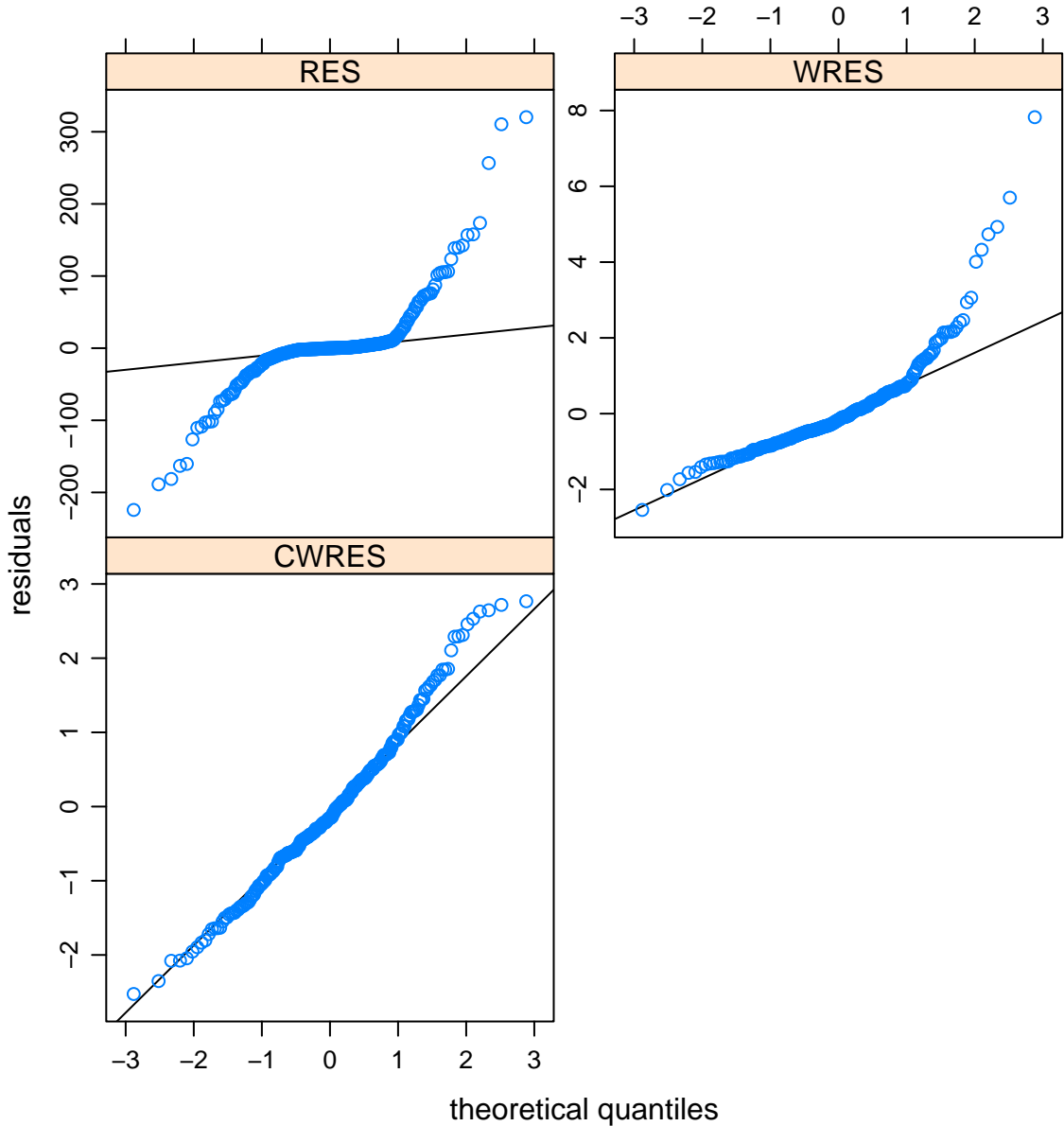
# Model 1001

## Normal Q-Q Plot Residuals for female data

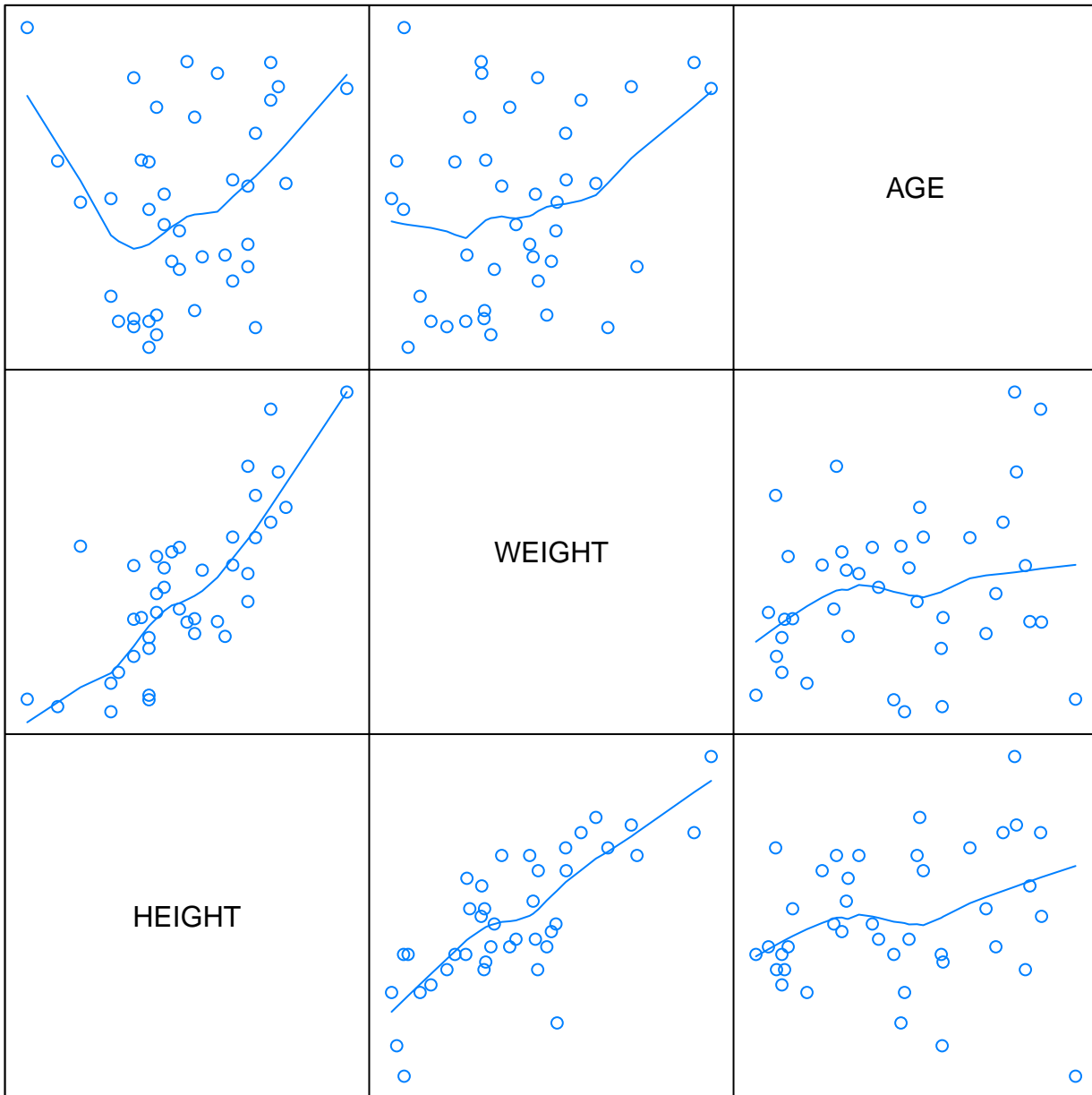


# Model 1001

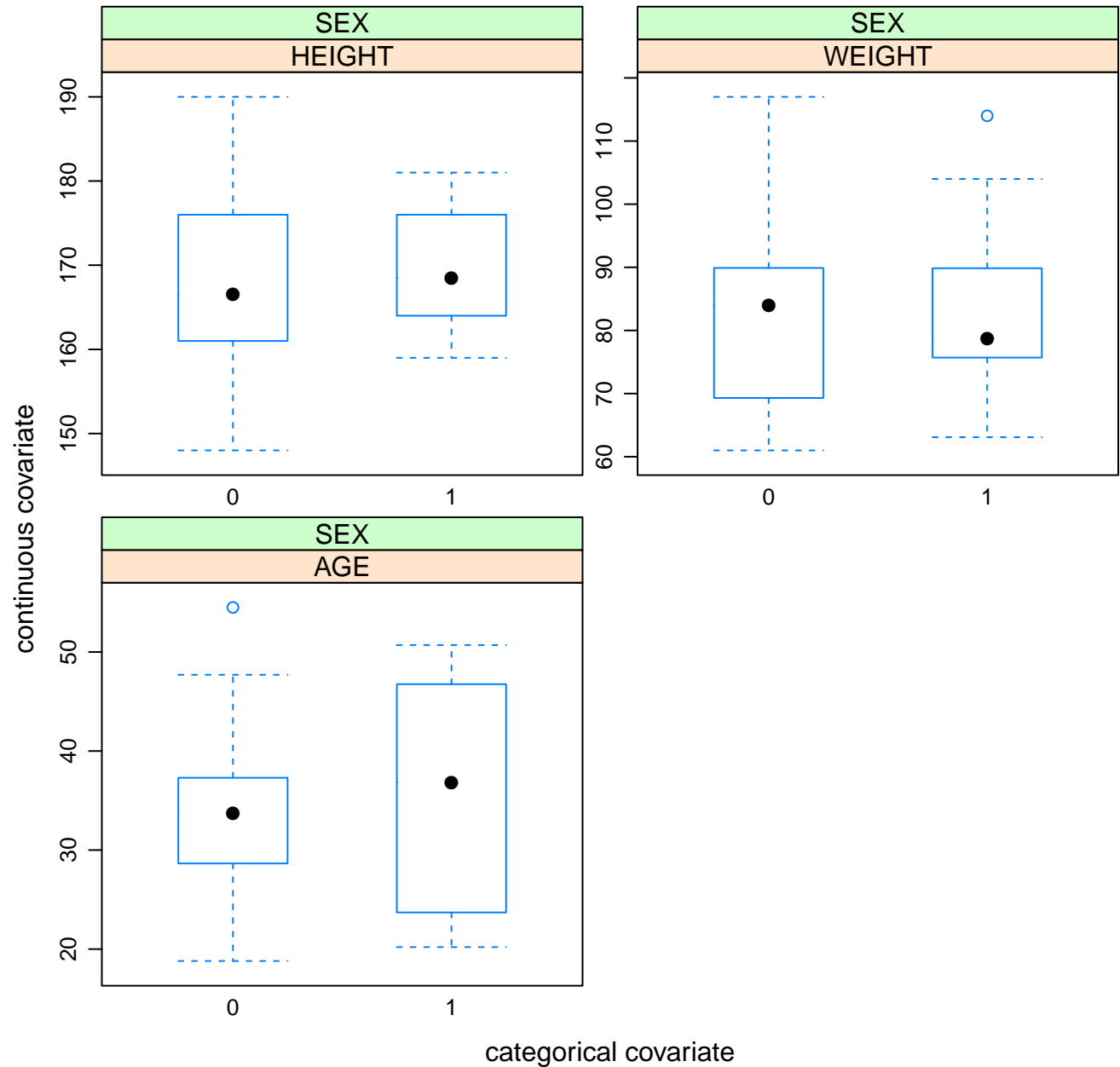
## Normal Q-Q Plot Residuals for male data



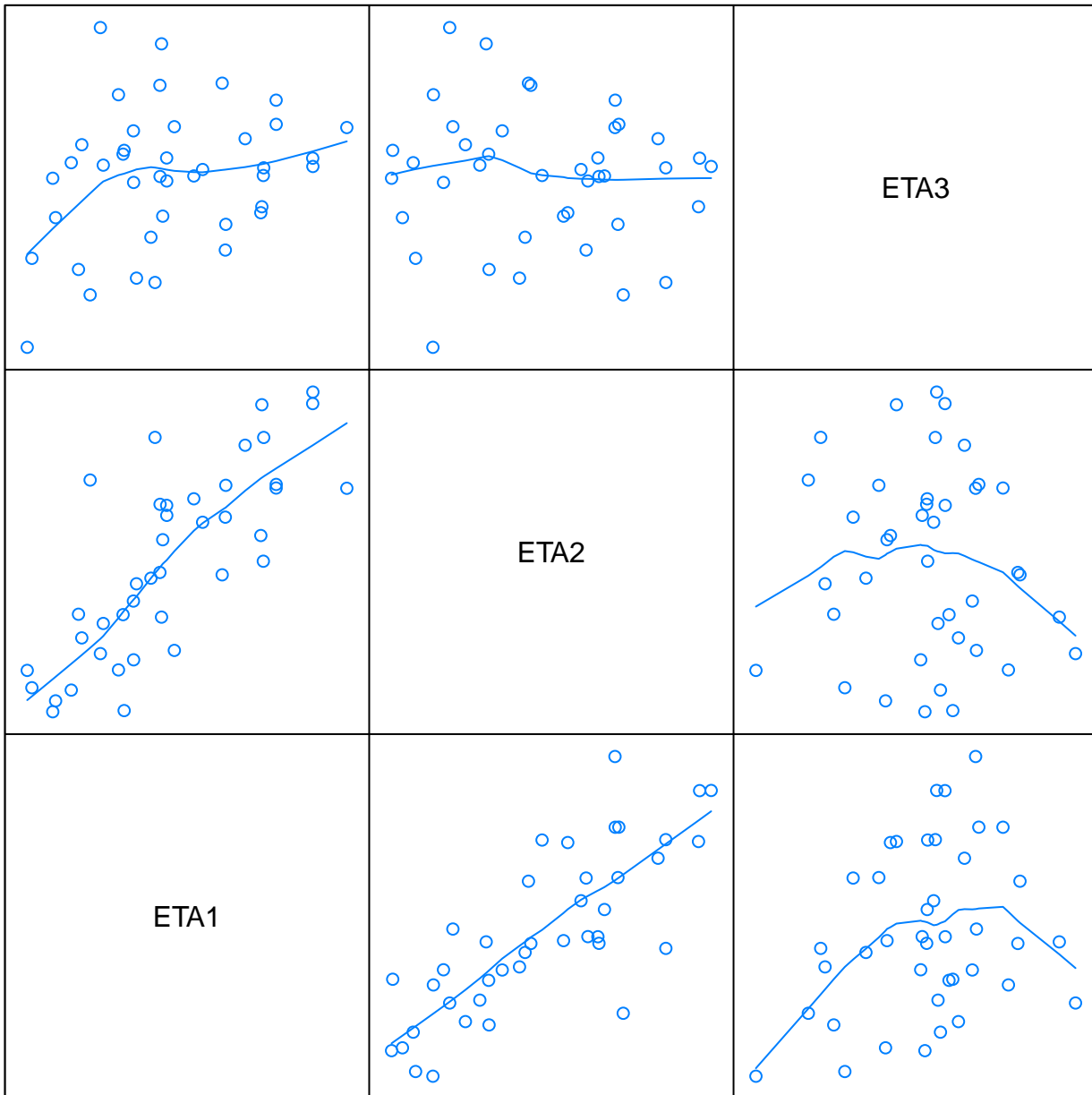
# Covariate Scatterplots



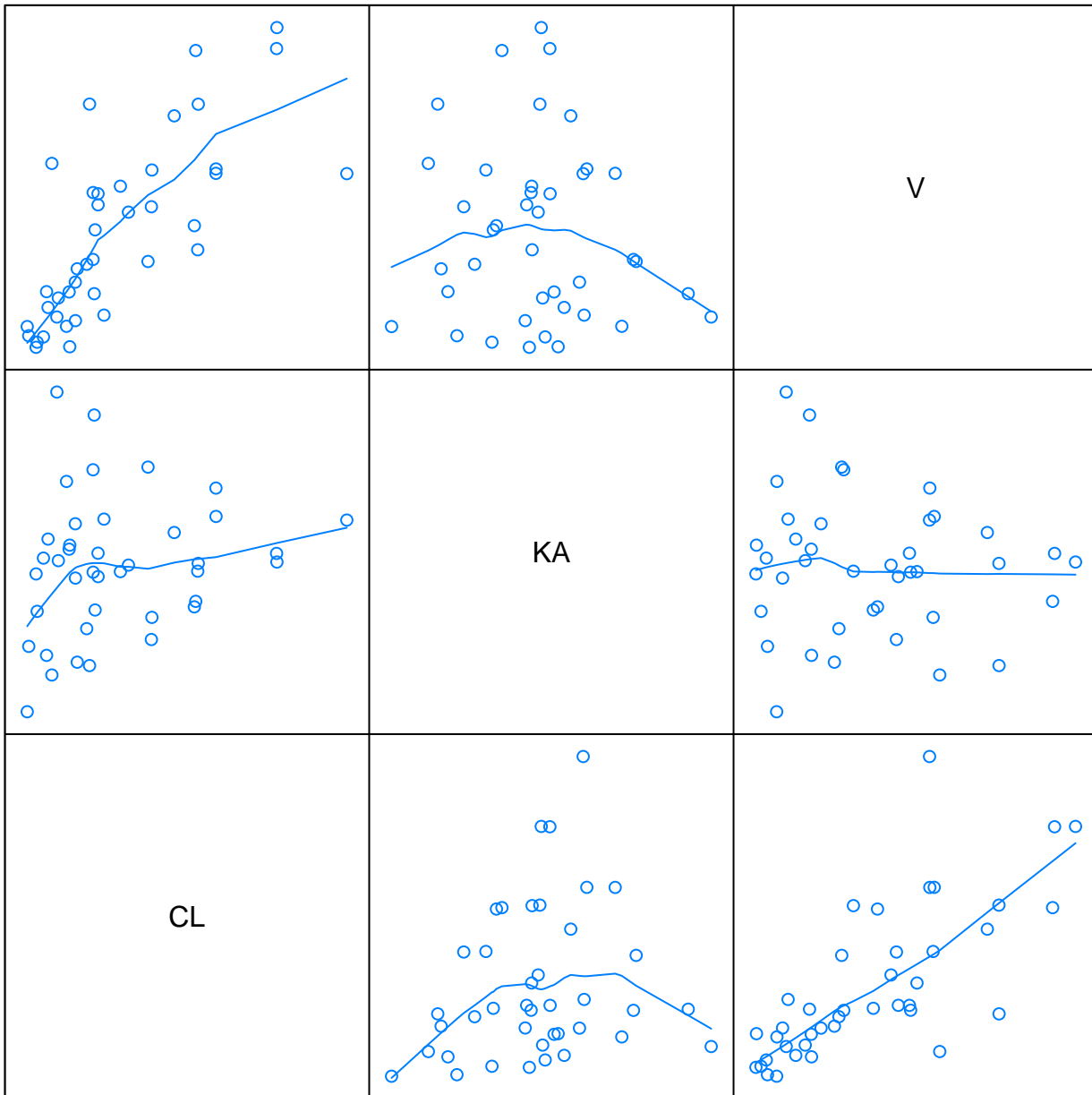
# Continuous Covariates vs. Categorical Covariates



# ETA Scatterplots

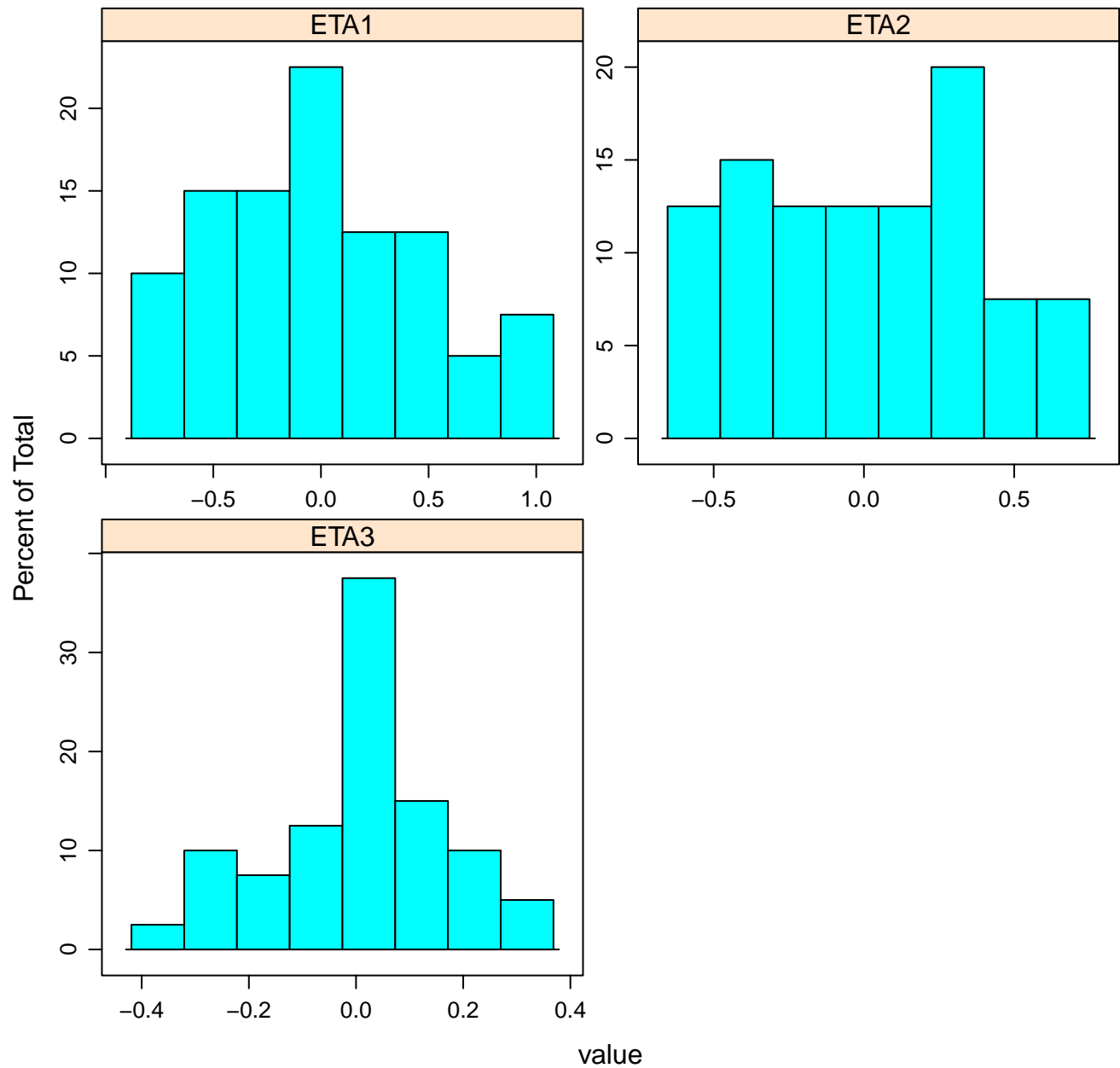


# Parameter Scatterplots

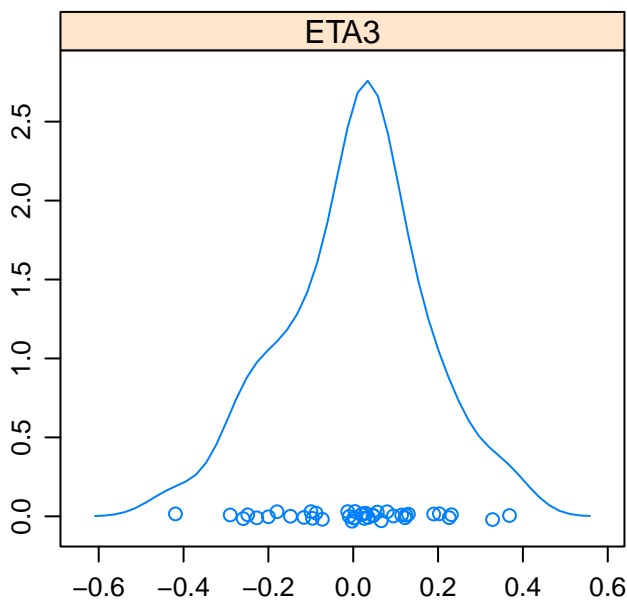
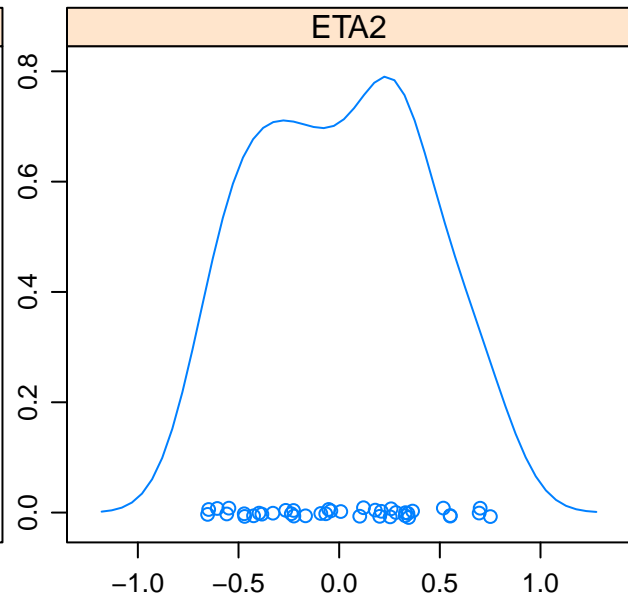
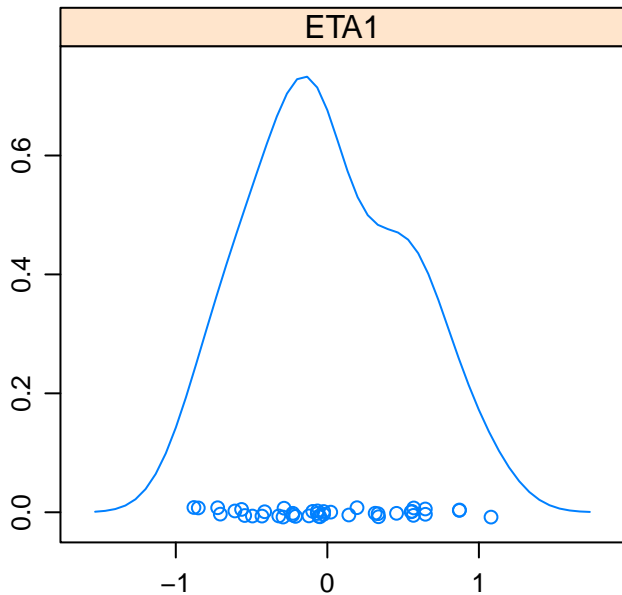




# Histograms of Etas

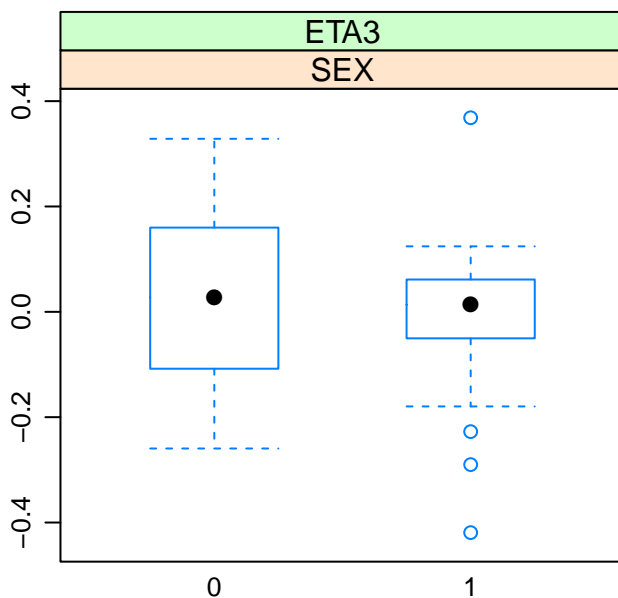
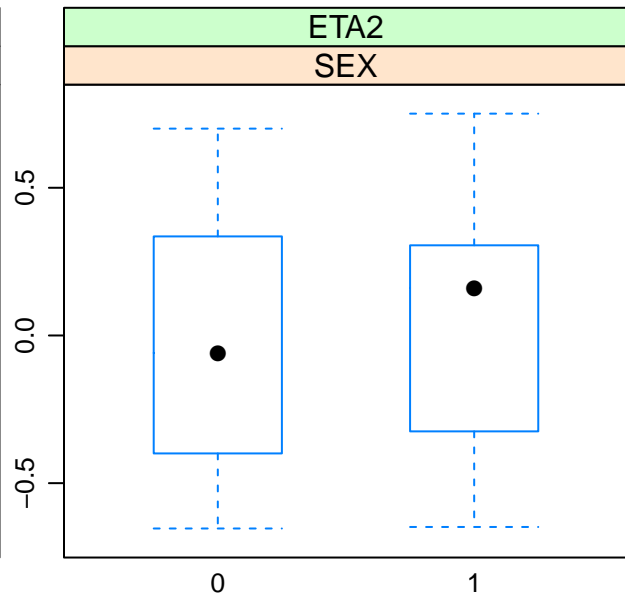
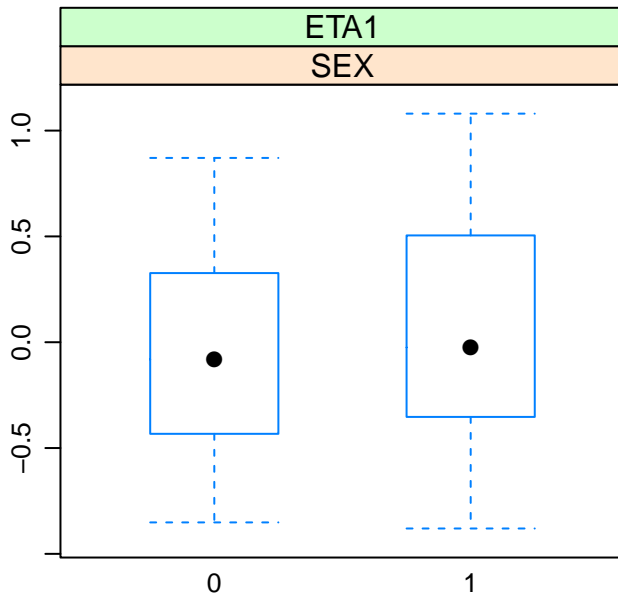


# Density of Etas



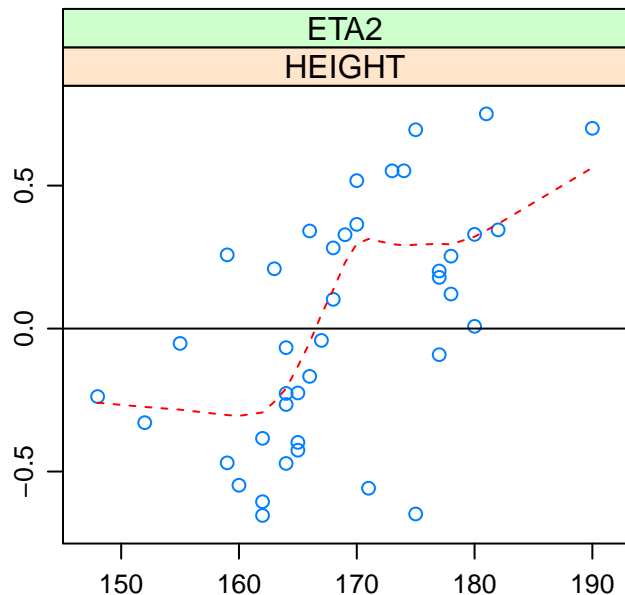
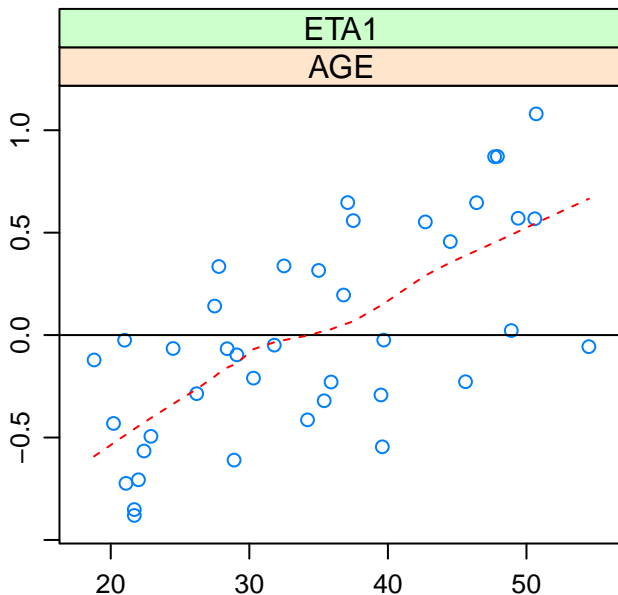
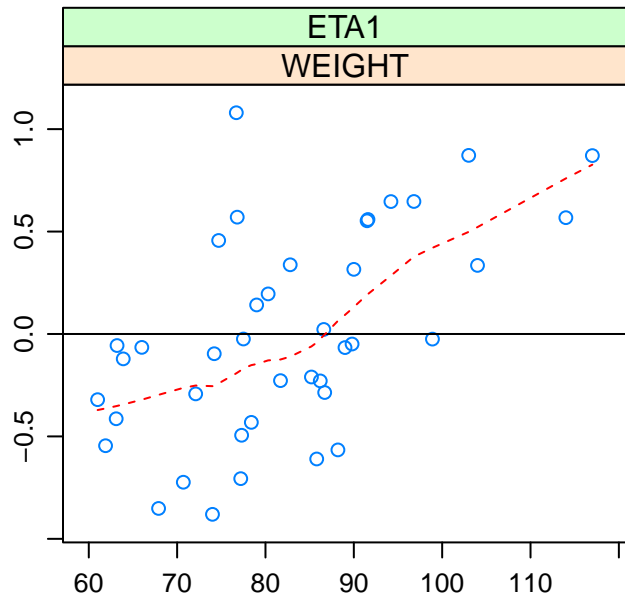
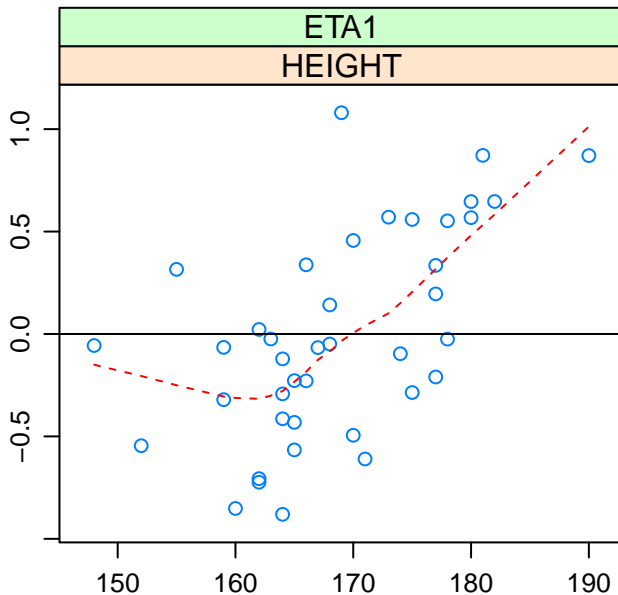
value

# Boxplots of Etas by Categorical Covariate



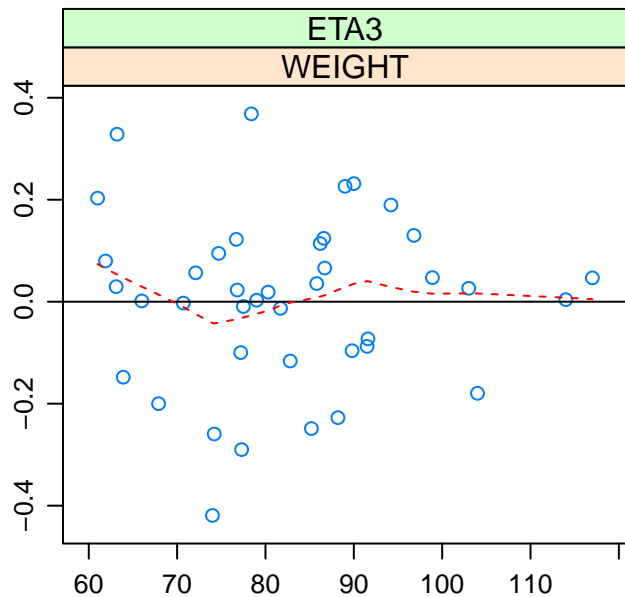
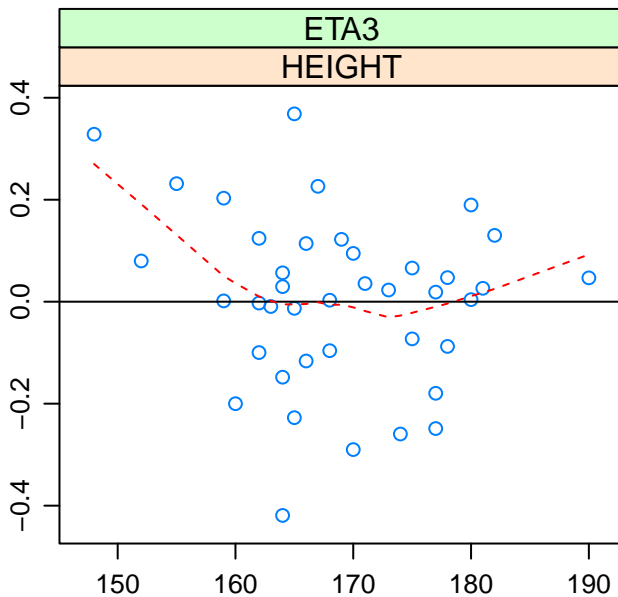
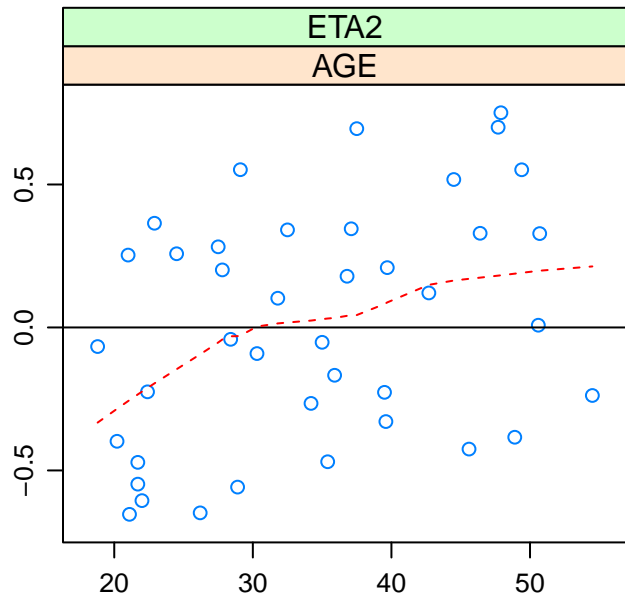
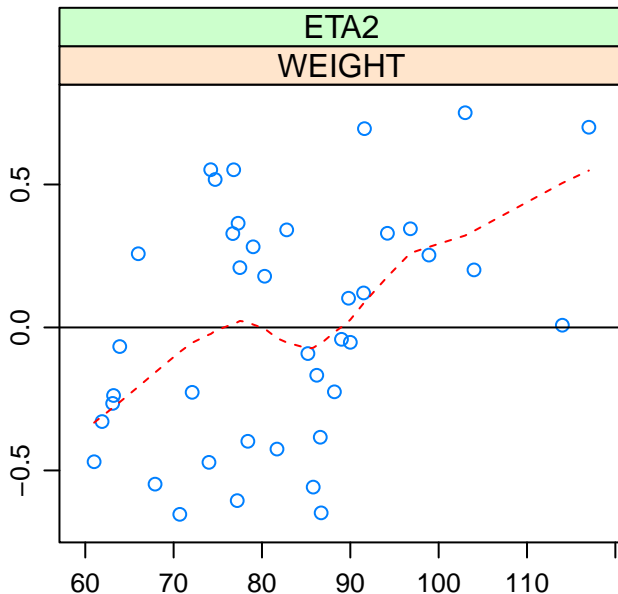
categorical covariate level

# Etas vs. Continuous Covariates



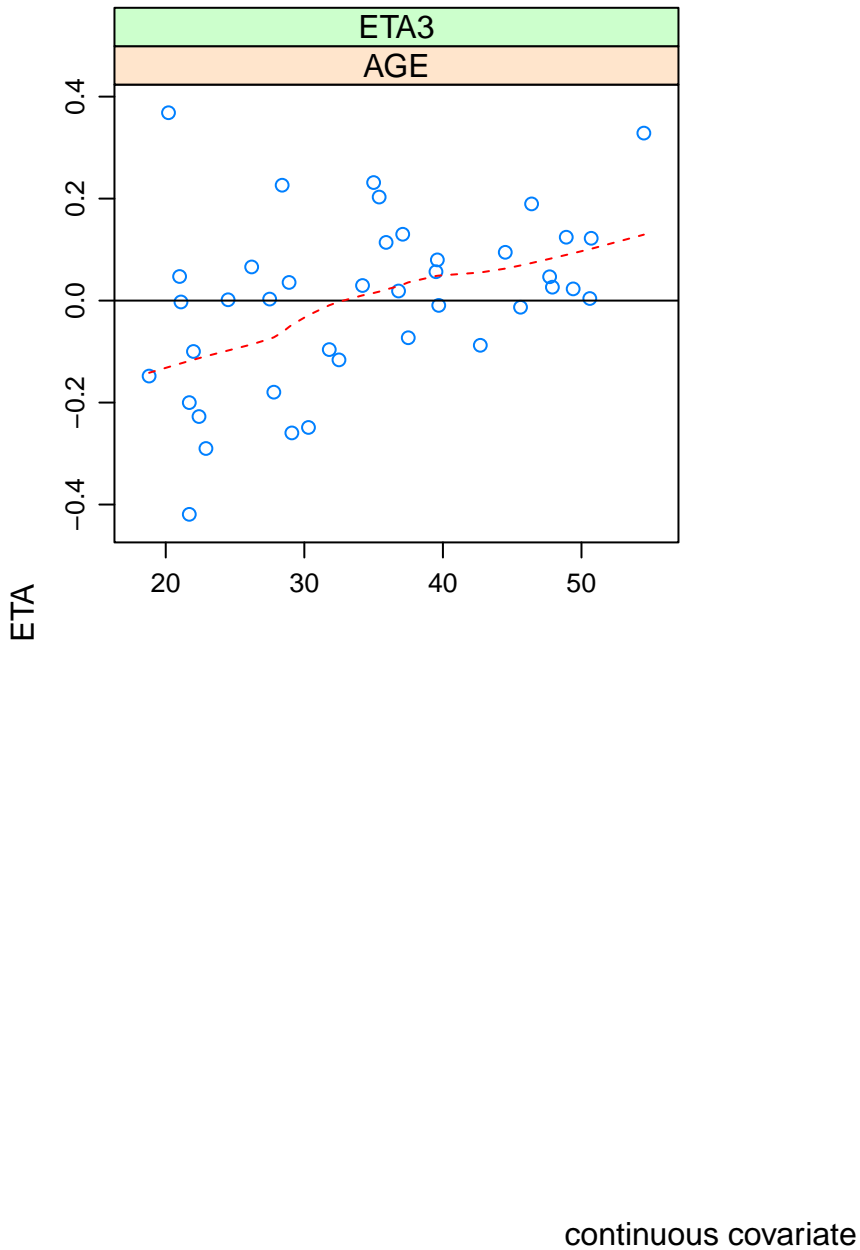
continuous covariate

# Etas vs. Continuous Covariates

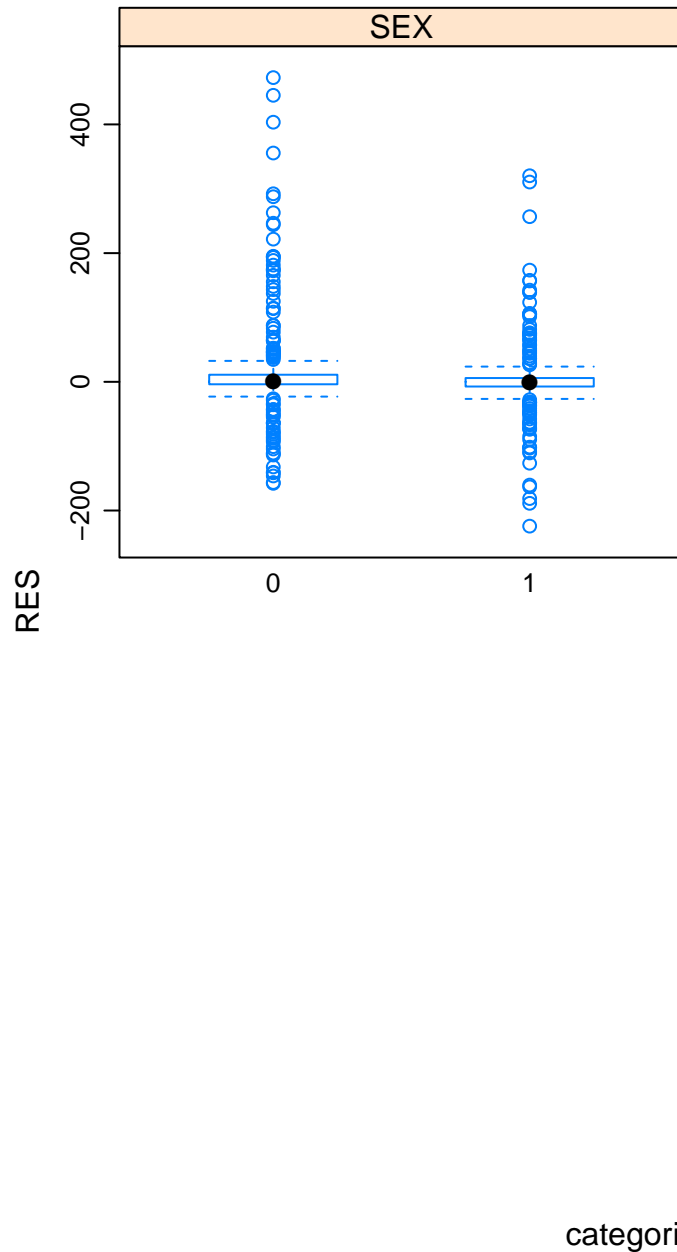


continuous covariate

# Etas vs. Continuous Covariates

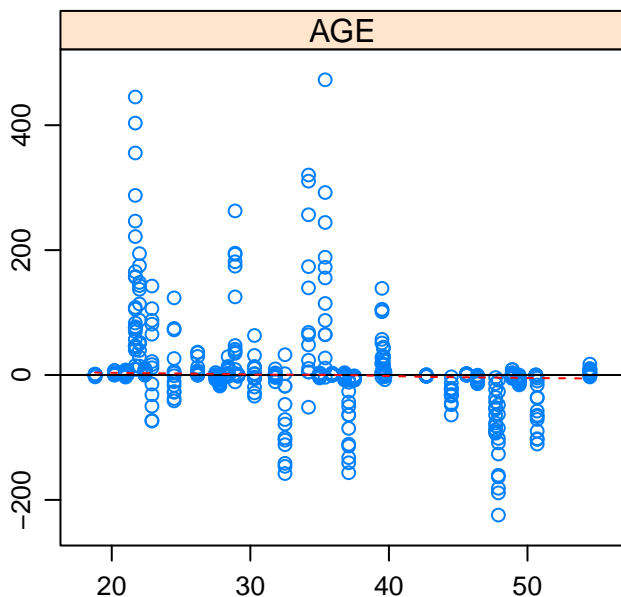
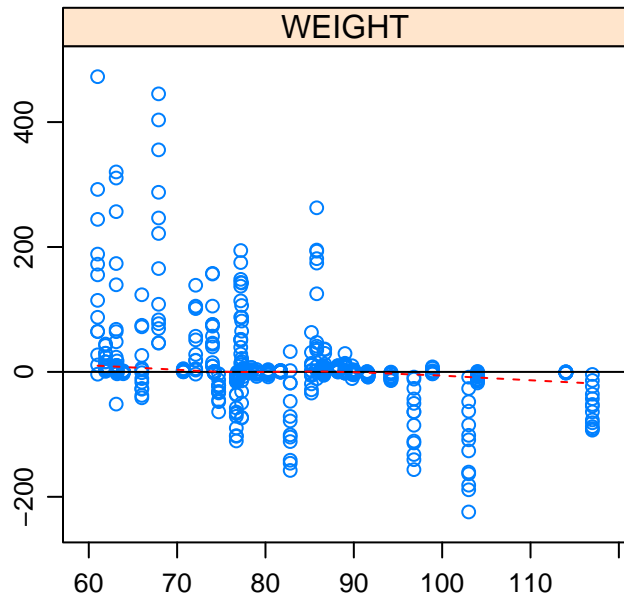
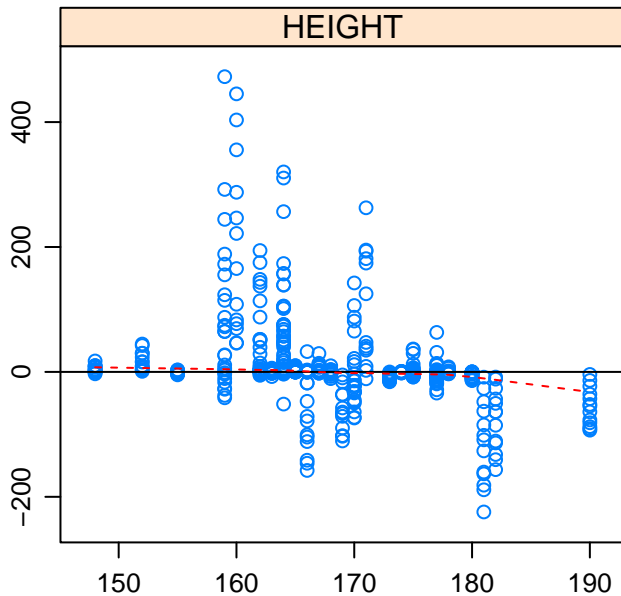


# RES vs. Categorical Covariates



# RES vs. Continuous Covariates

RES

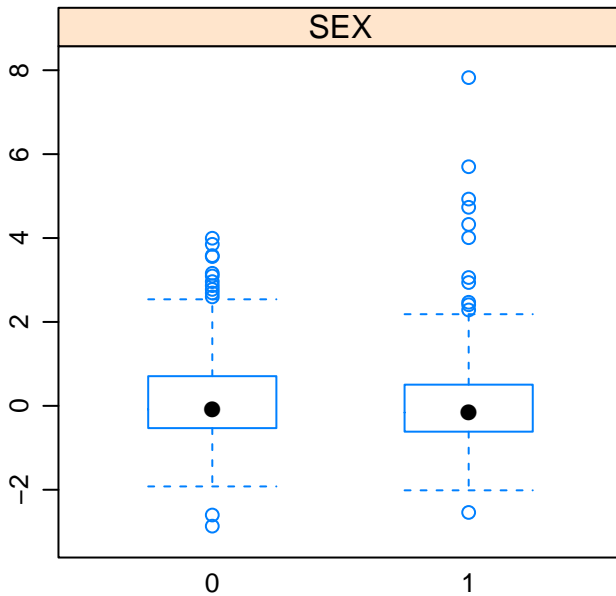


continuous covariate



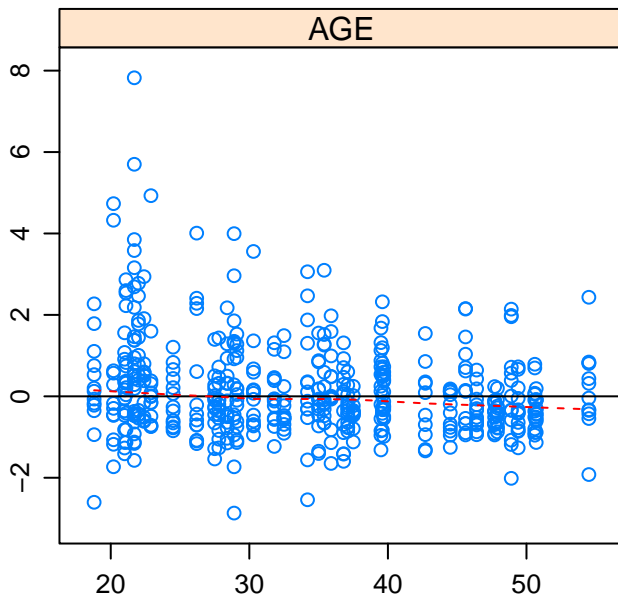
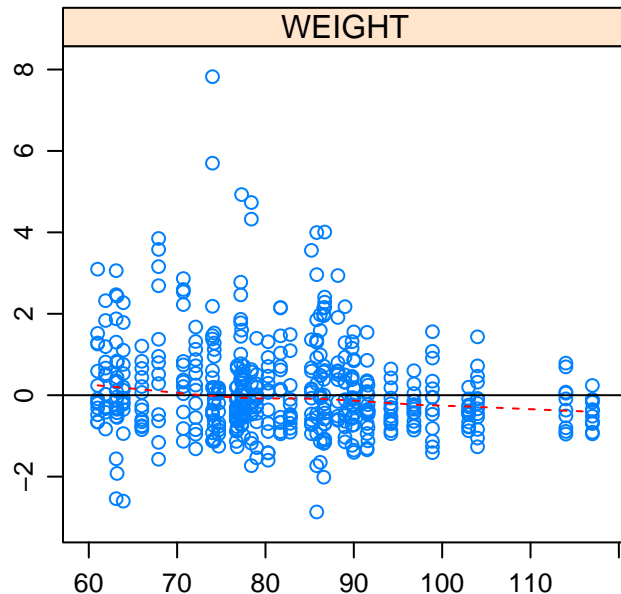
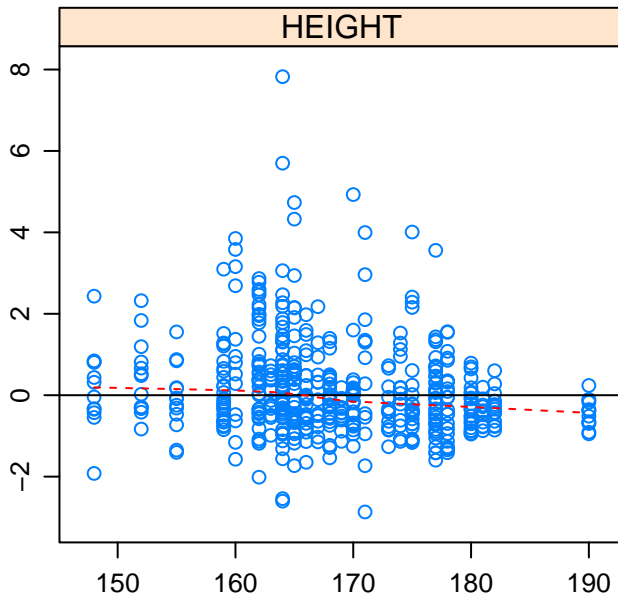
# WRES vs. Categorical Covariates

WRES



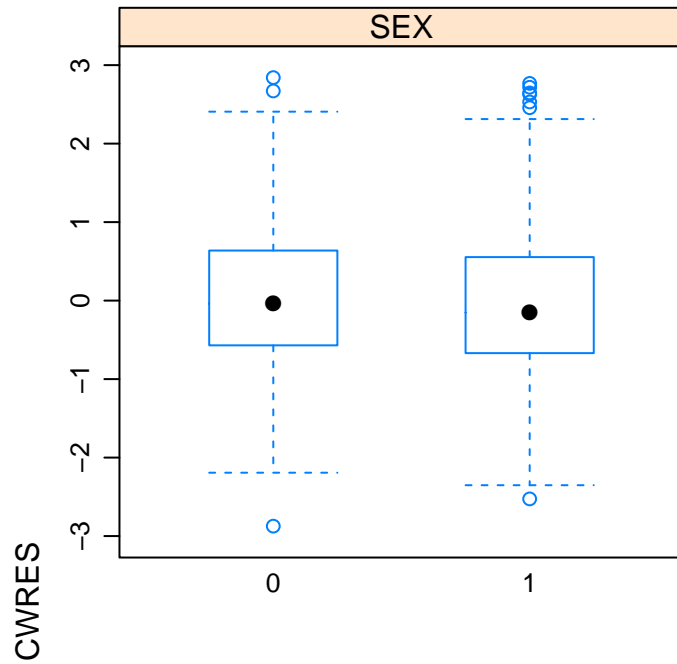
categorical Covariate

# WRES vs. Continuous Covariates



continuous covariate

# CWRES vs. Categorical Covariates

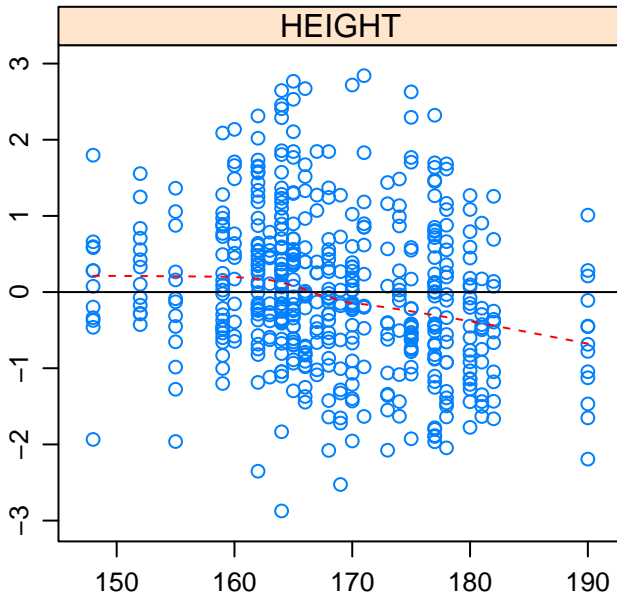


categorical Covariate

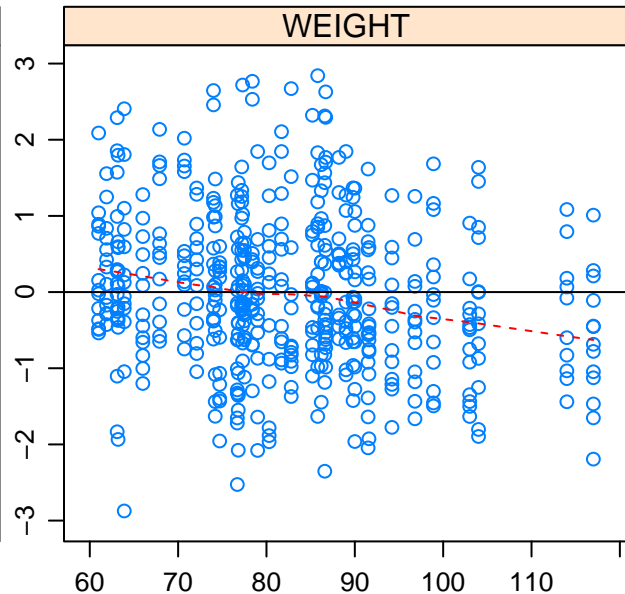
# CWRES vs. Continuous Covariates

CWRES

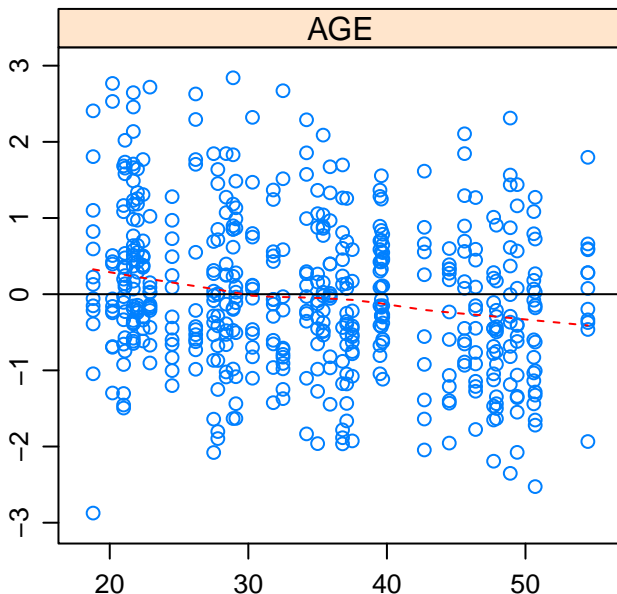
HEIGHT



WEIGHT

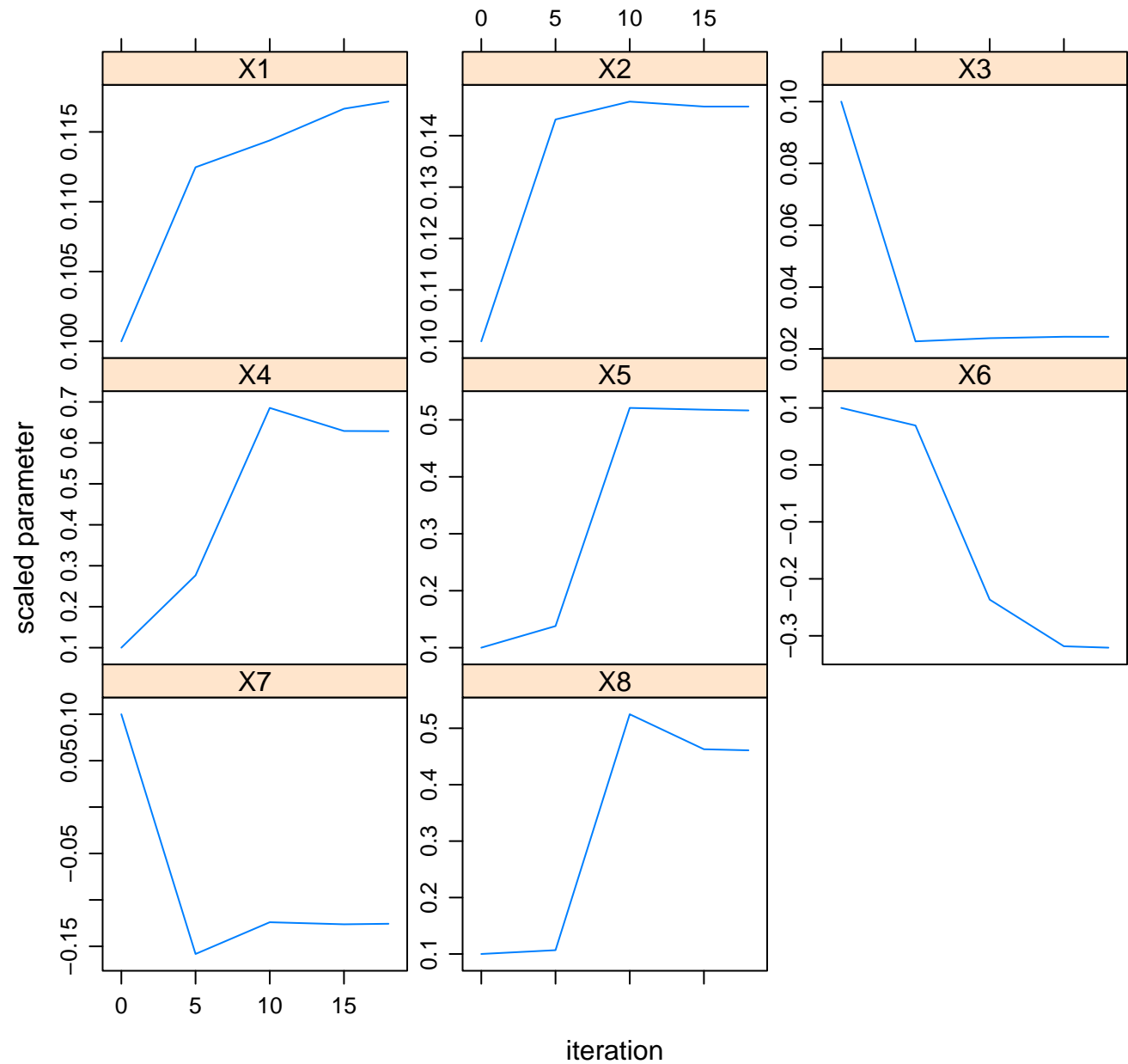


AGE



continuous covariate

# Model 1001 parameter search



# Model 1001 gradient search

