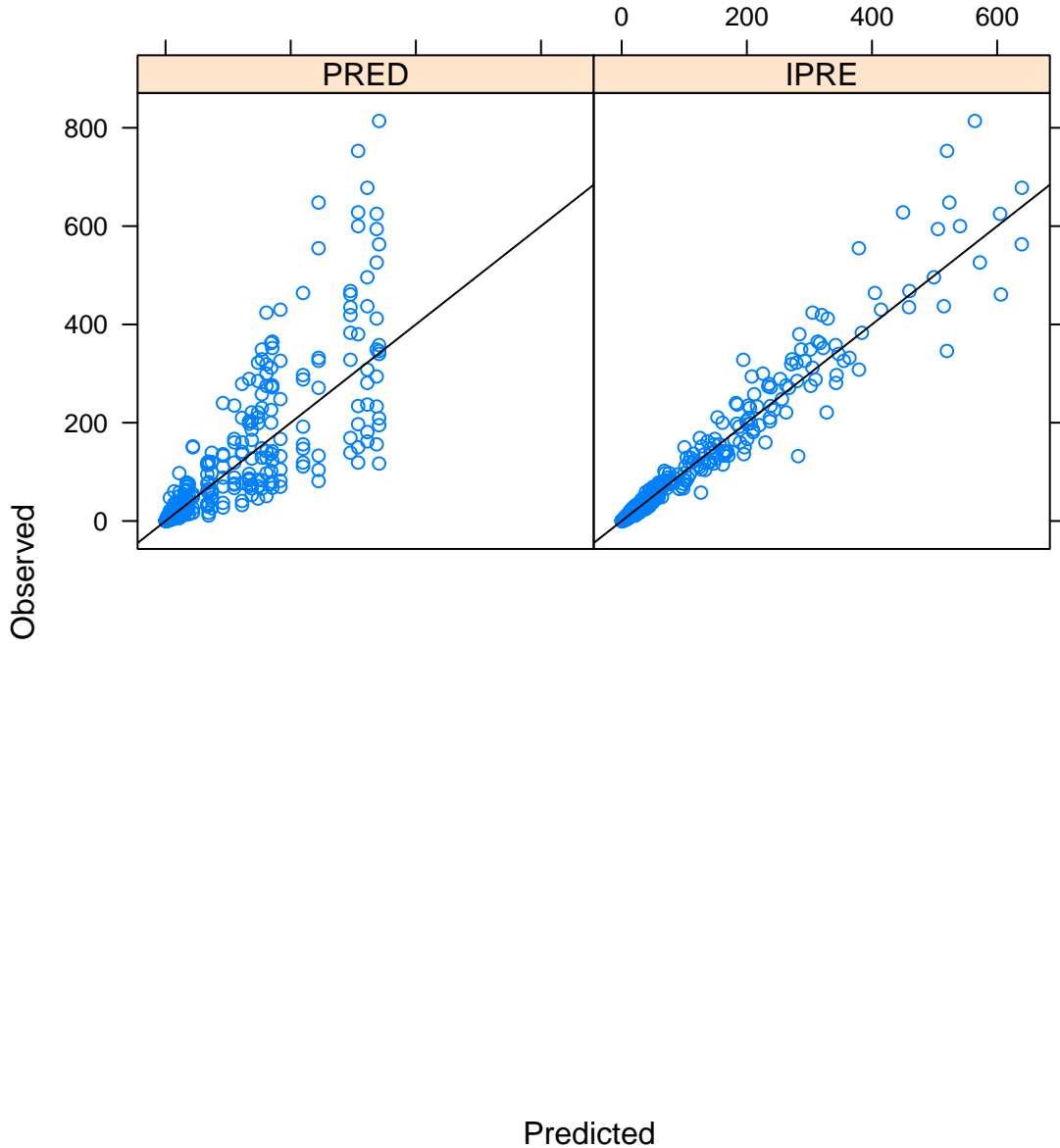


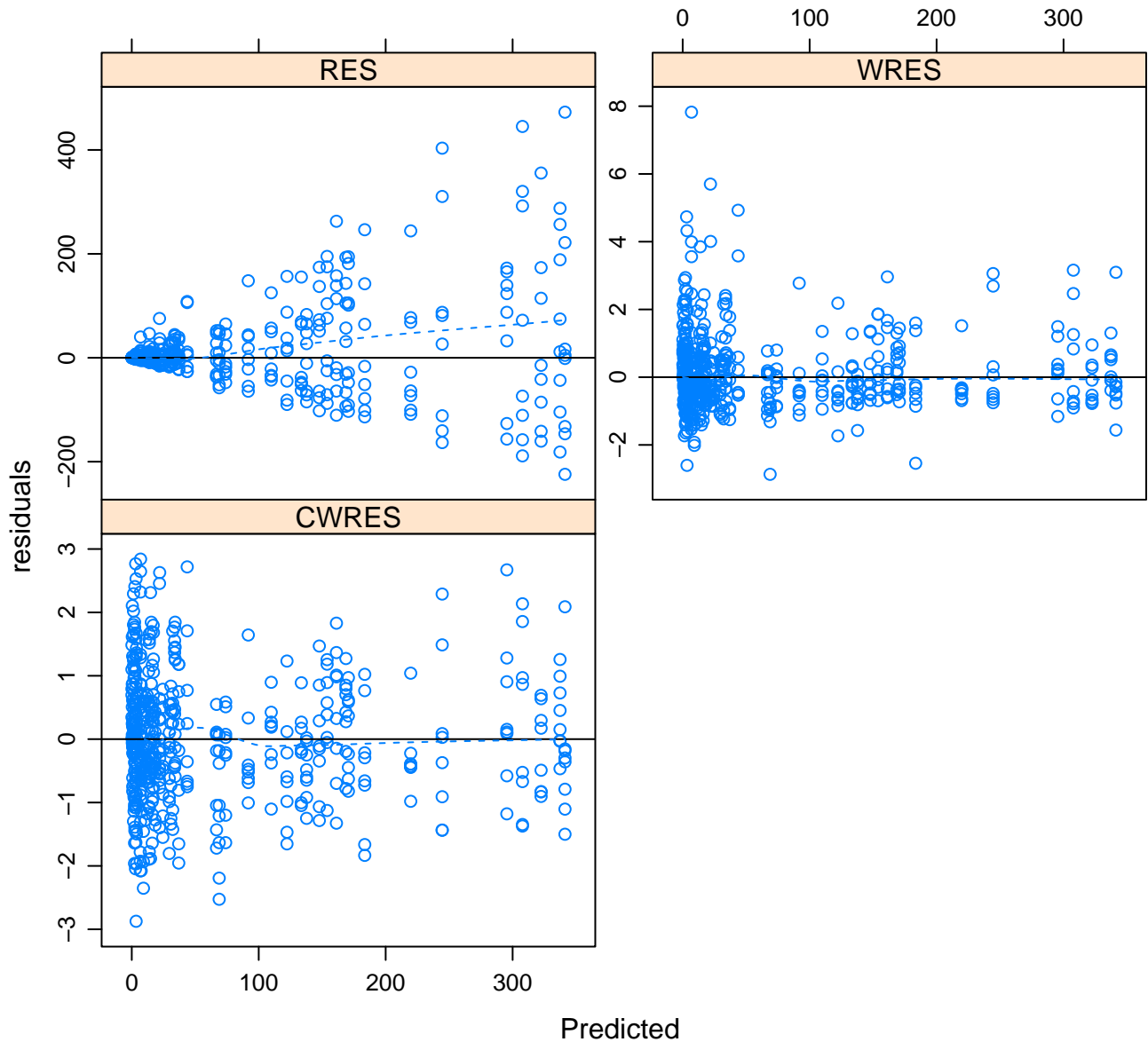
# Model 1001

## Observed vs. Predicted for all data



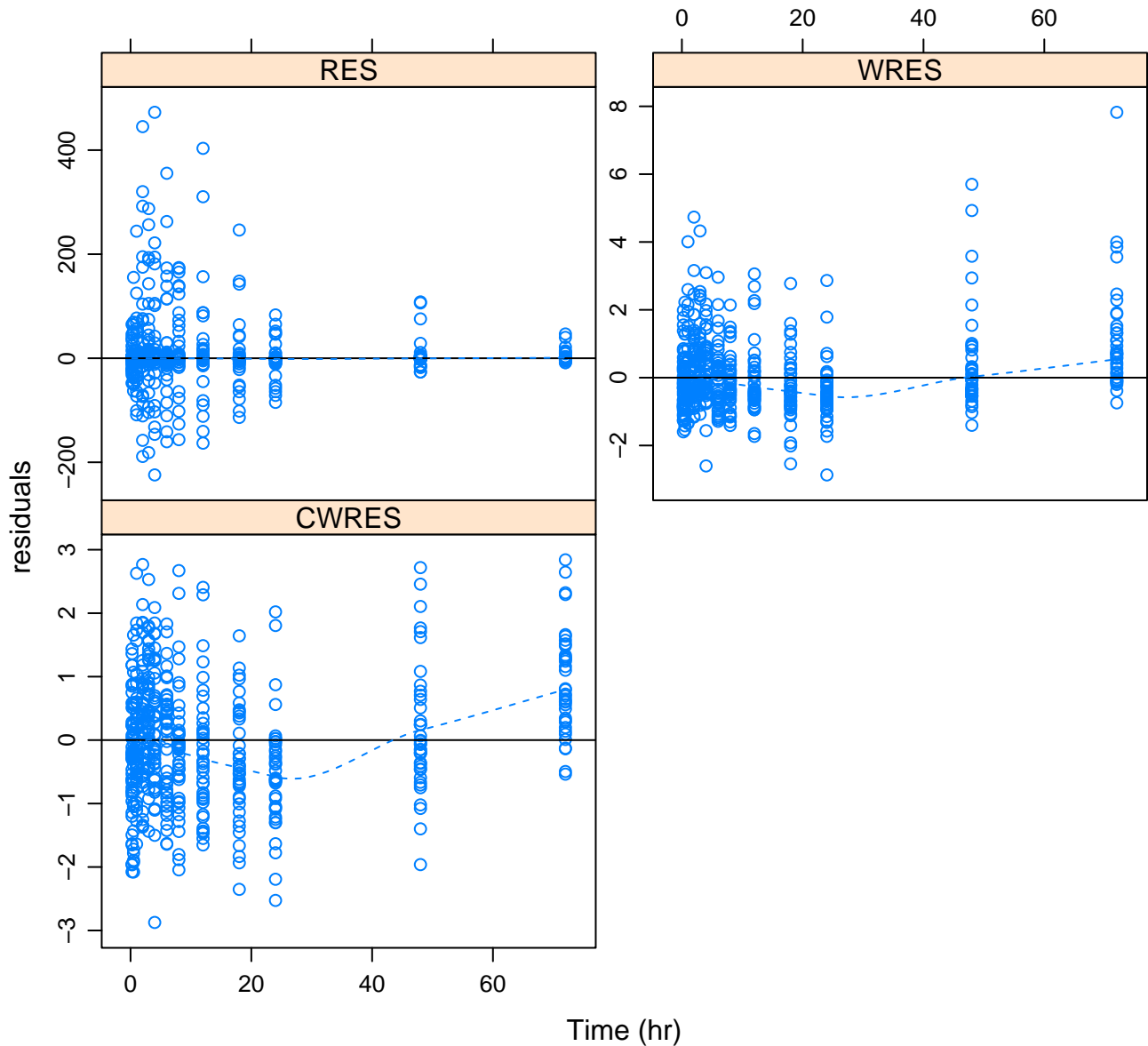
# Model 1001

## Residuals vs. Predicted for all data



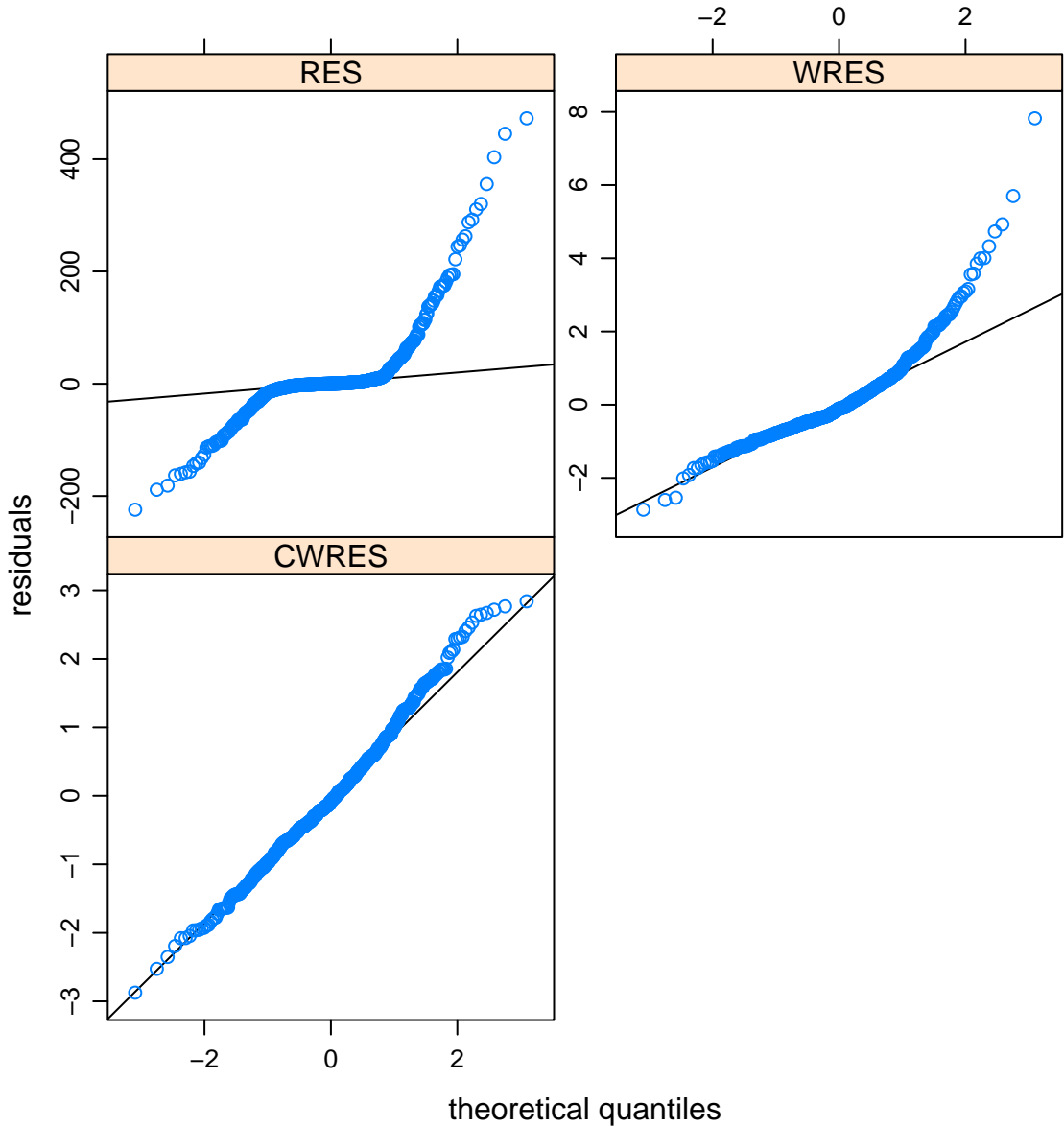
# Model 1001

## Residuals vs. Time for all data



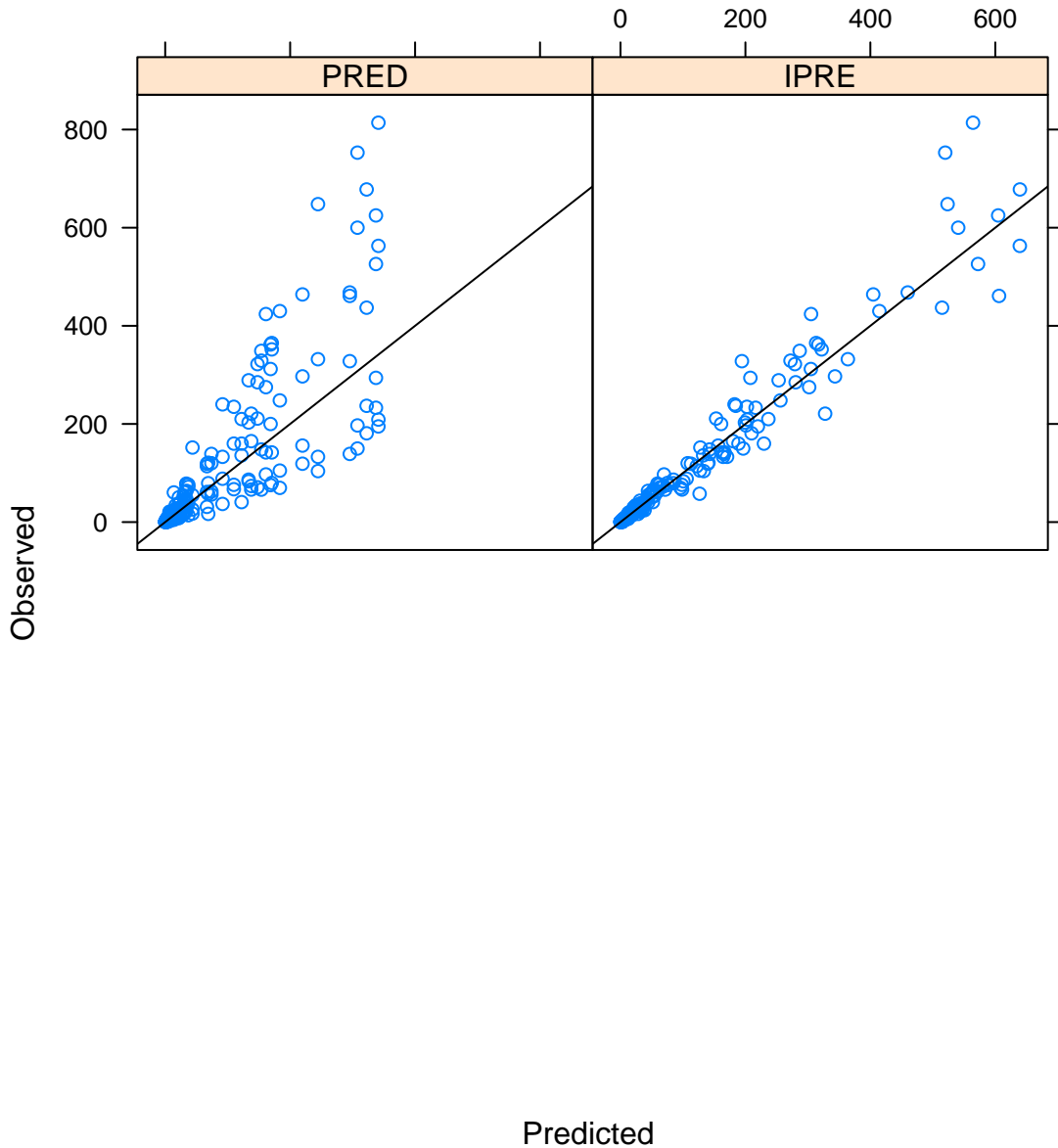
# Model 1001

## Normal Q-Q Plot Residuals for all data



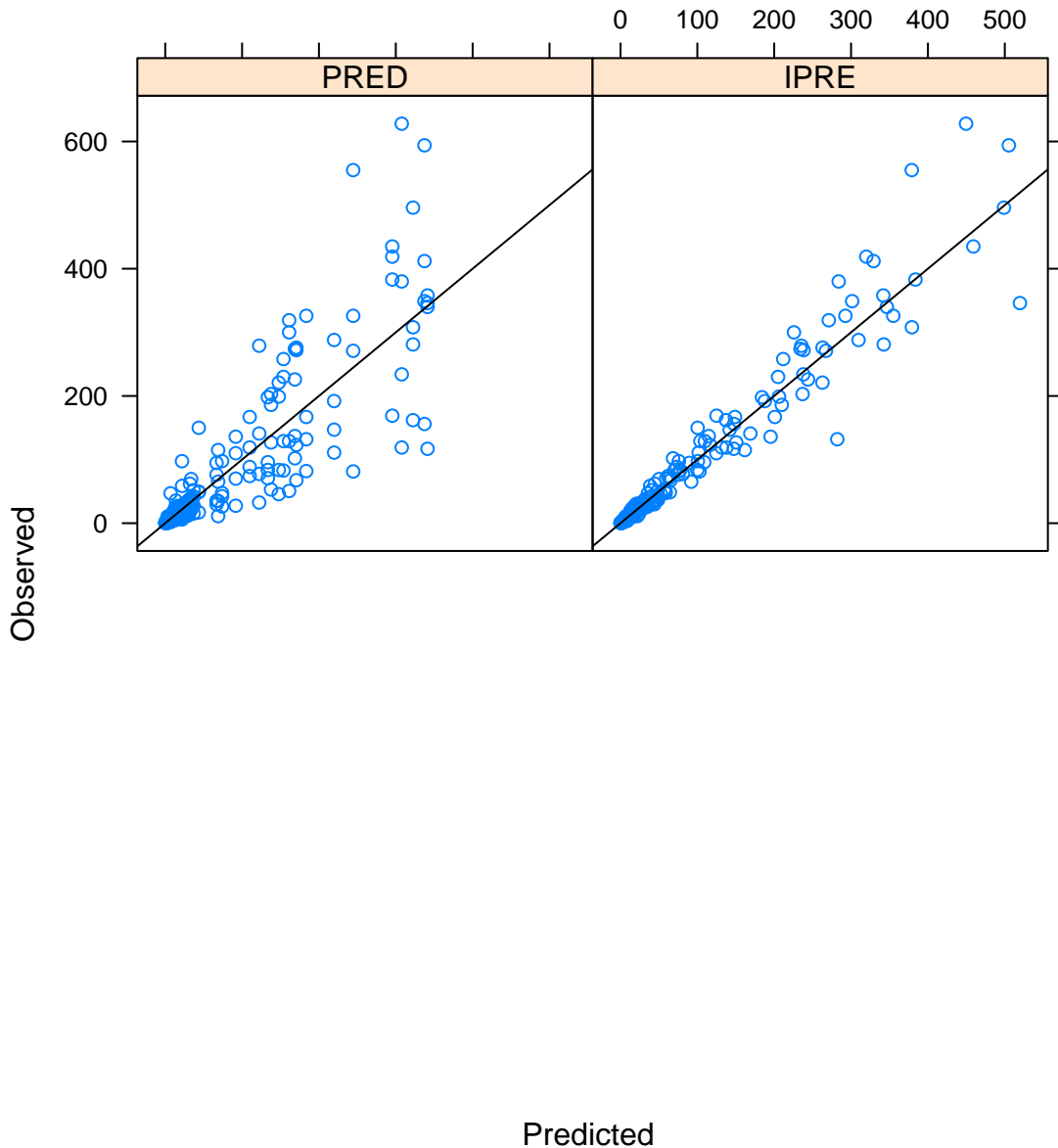
# Model 1001

## Observed vs. Predicted for female data



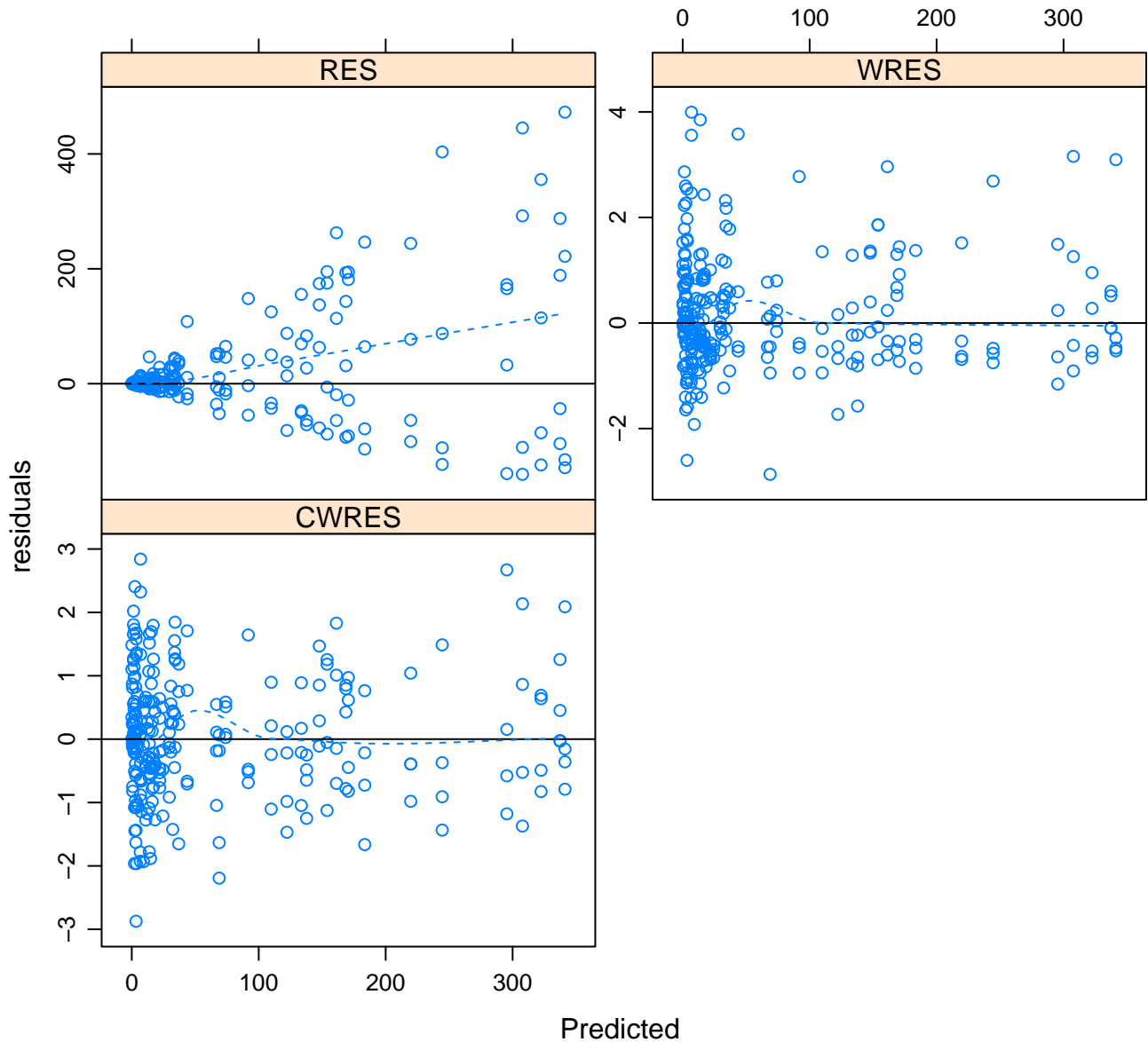
# Model 1001

## Observed vs. Predicted for male data



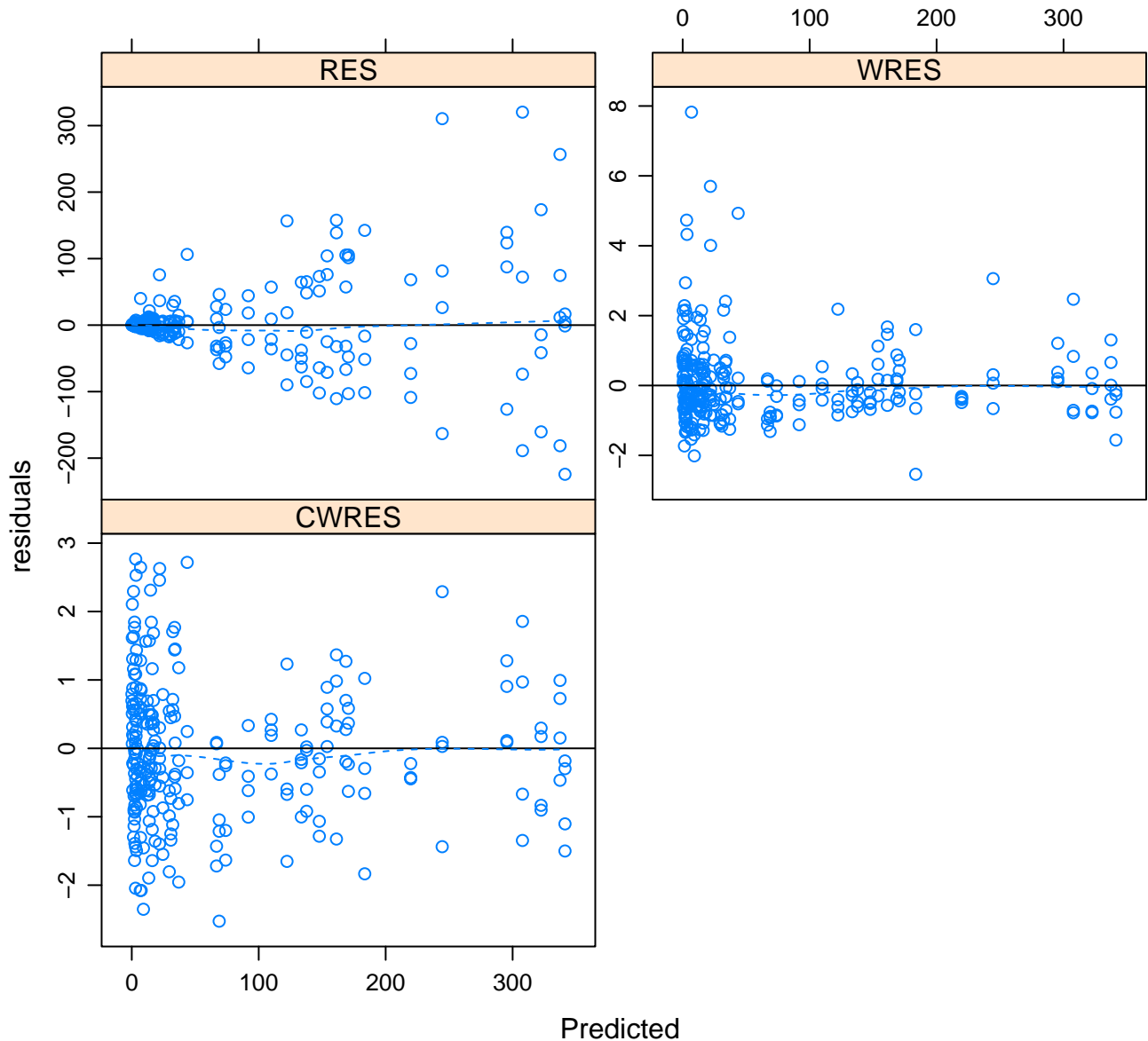
# Model 1001

## Residuals vs. Predicted for female data



# Model 1001

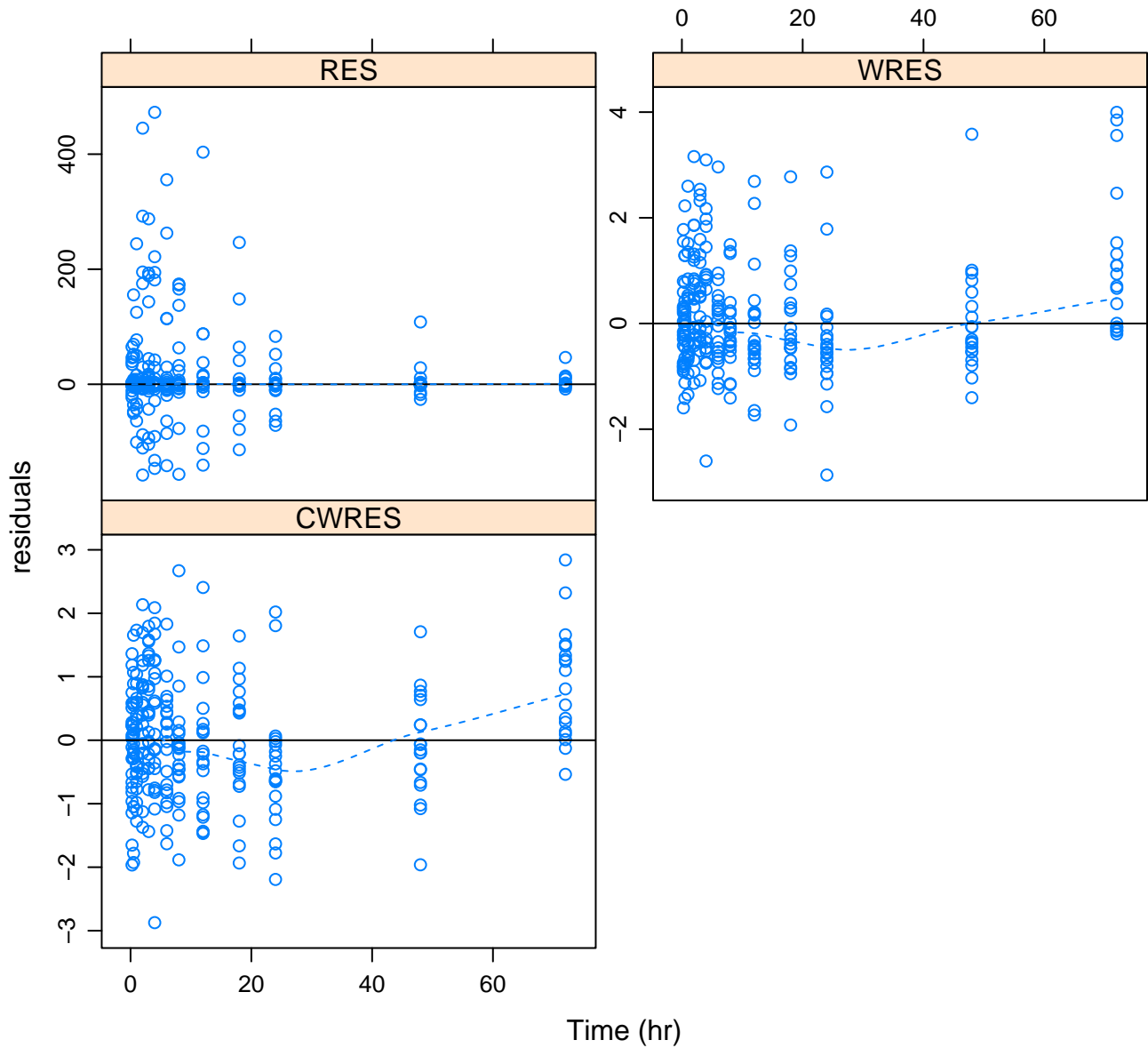
## Residuals vs. Predicted for male data





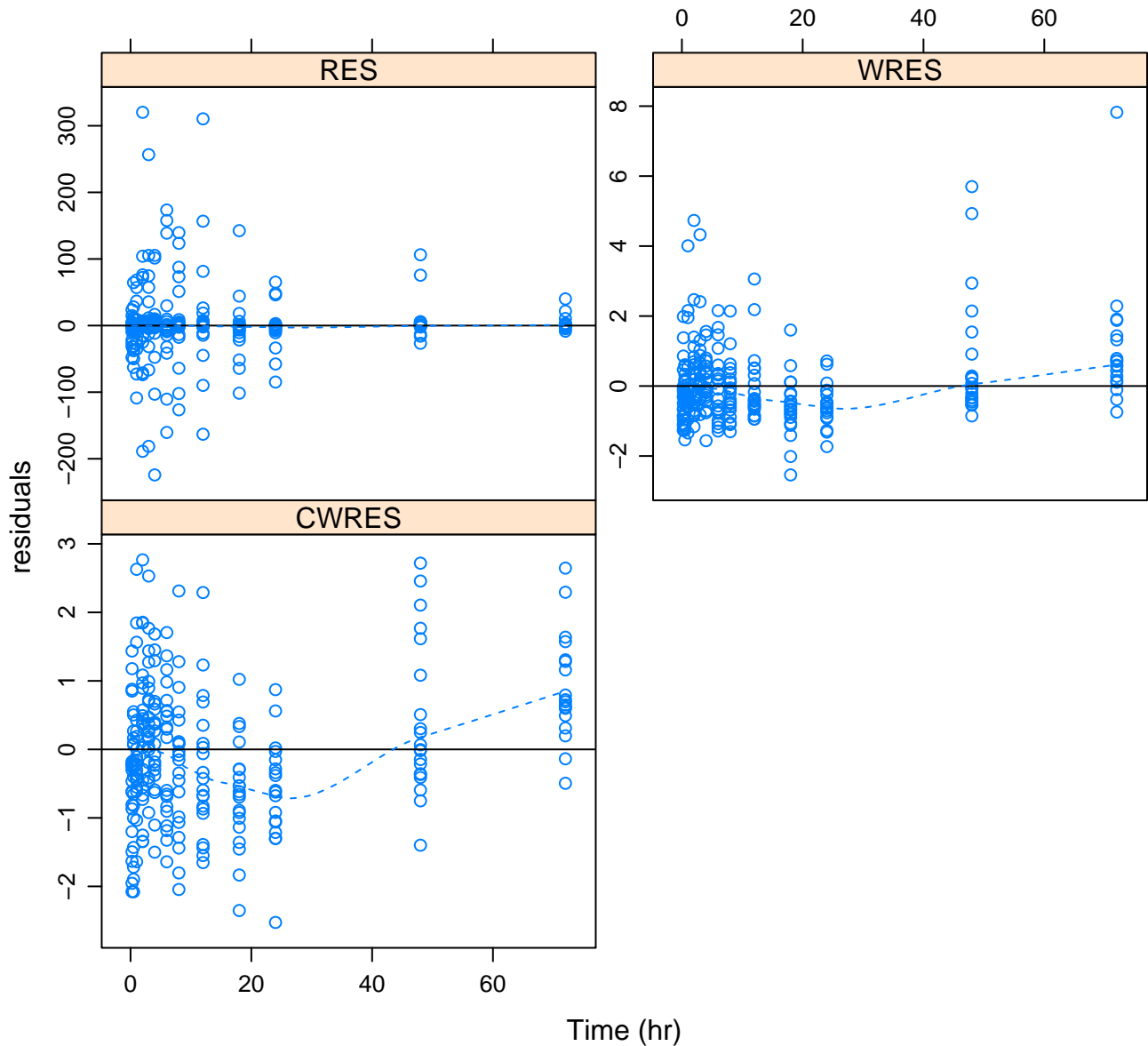
# Model 1001

## Residuals vs. Time for female data



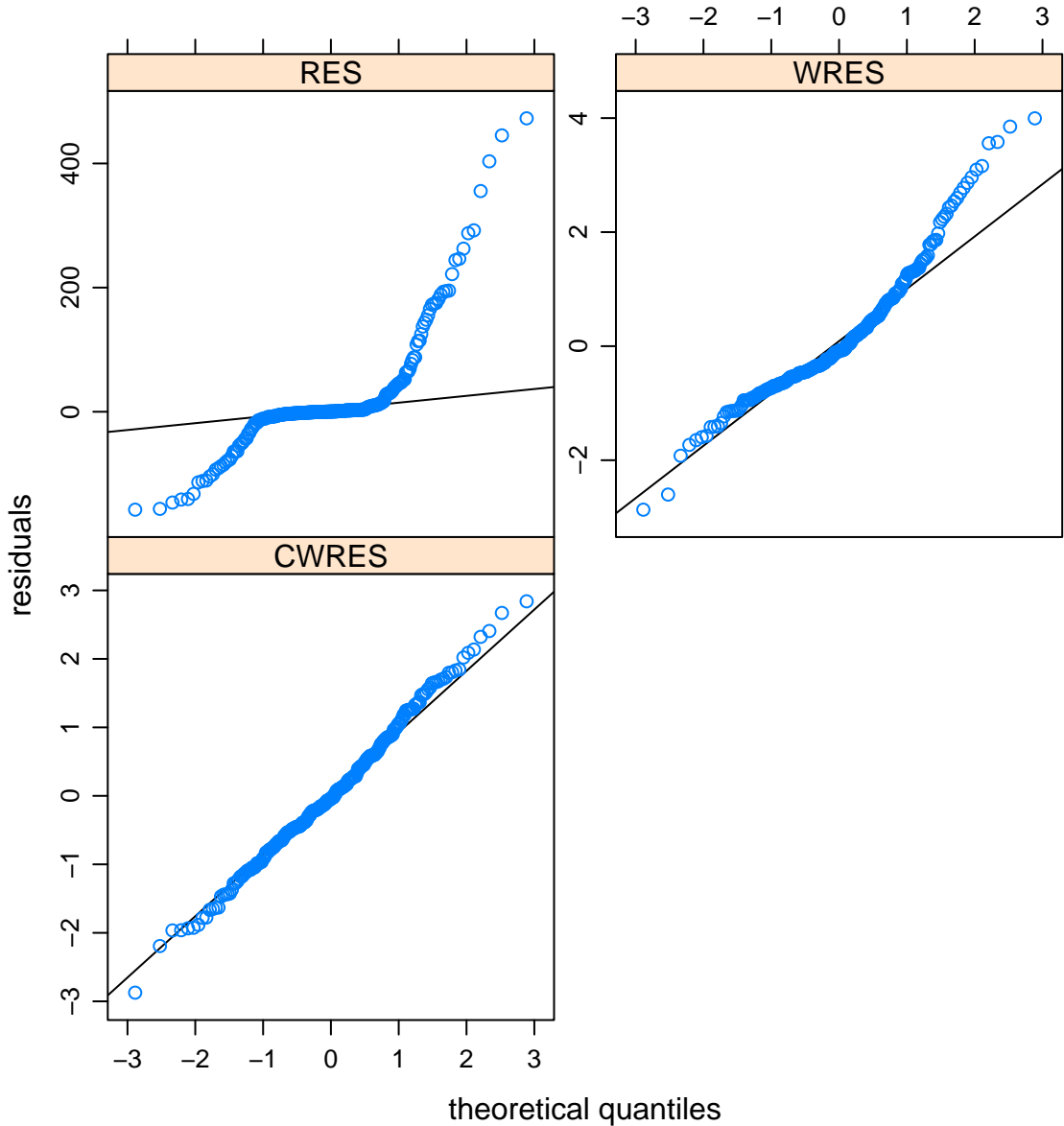
# Model 1001

## Residuals vs. Time for male data



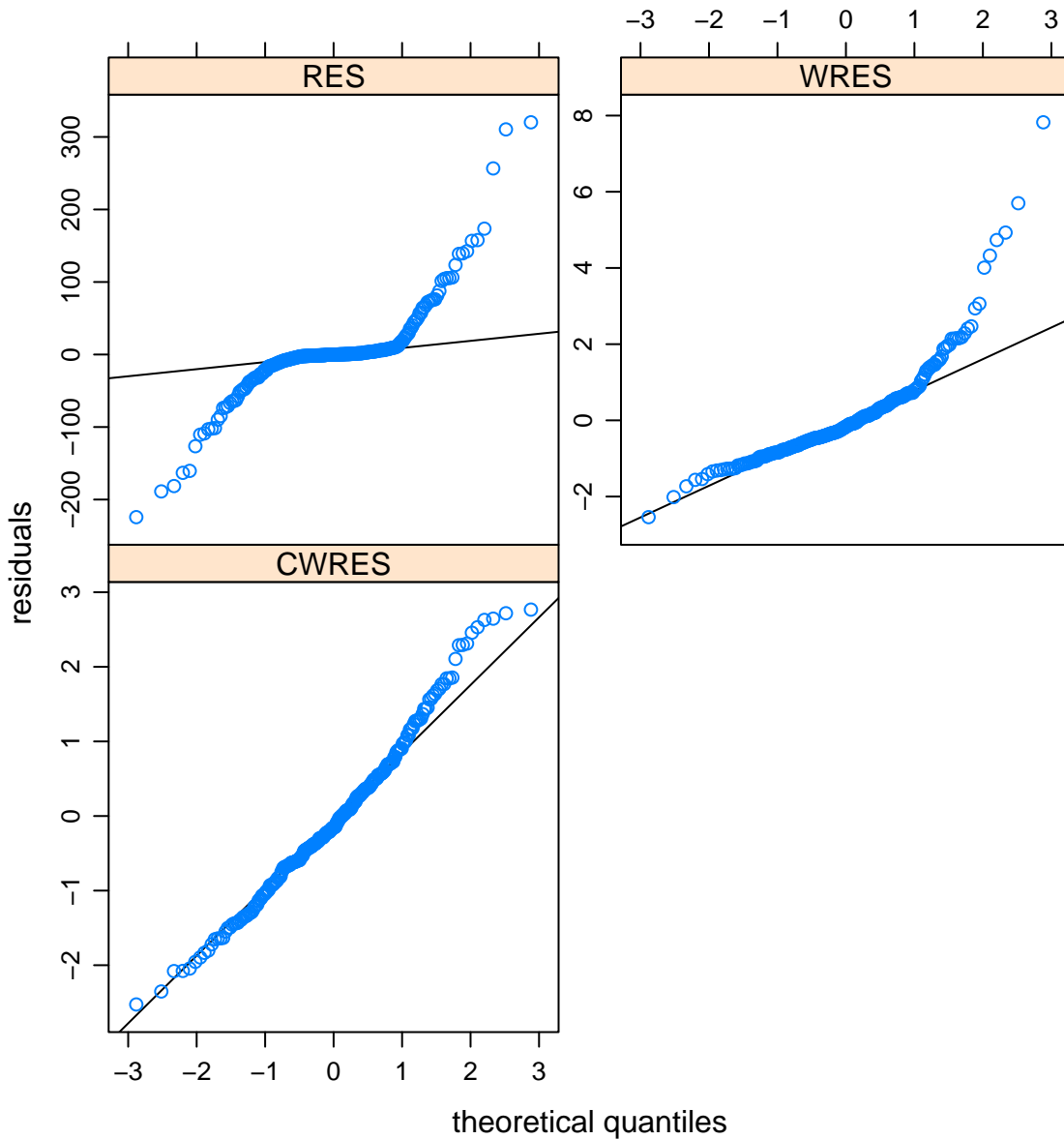
# Model 1001

## Normal Q-Q Plot Residuals for female data



# Model 1001

## Normal Q-Q Plot Residuals for male data



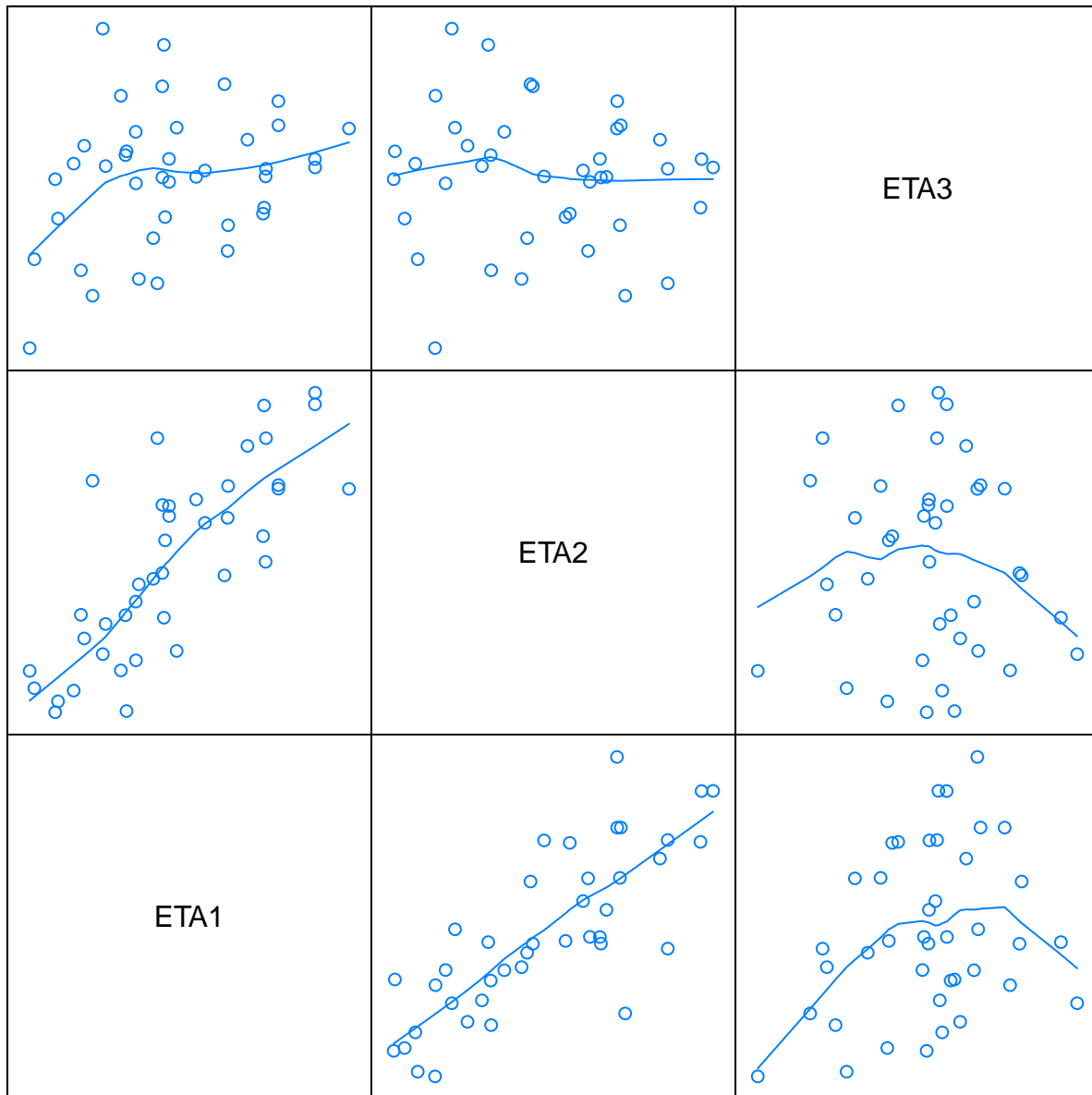
# Covariate Scatterplots



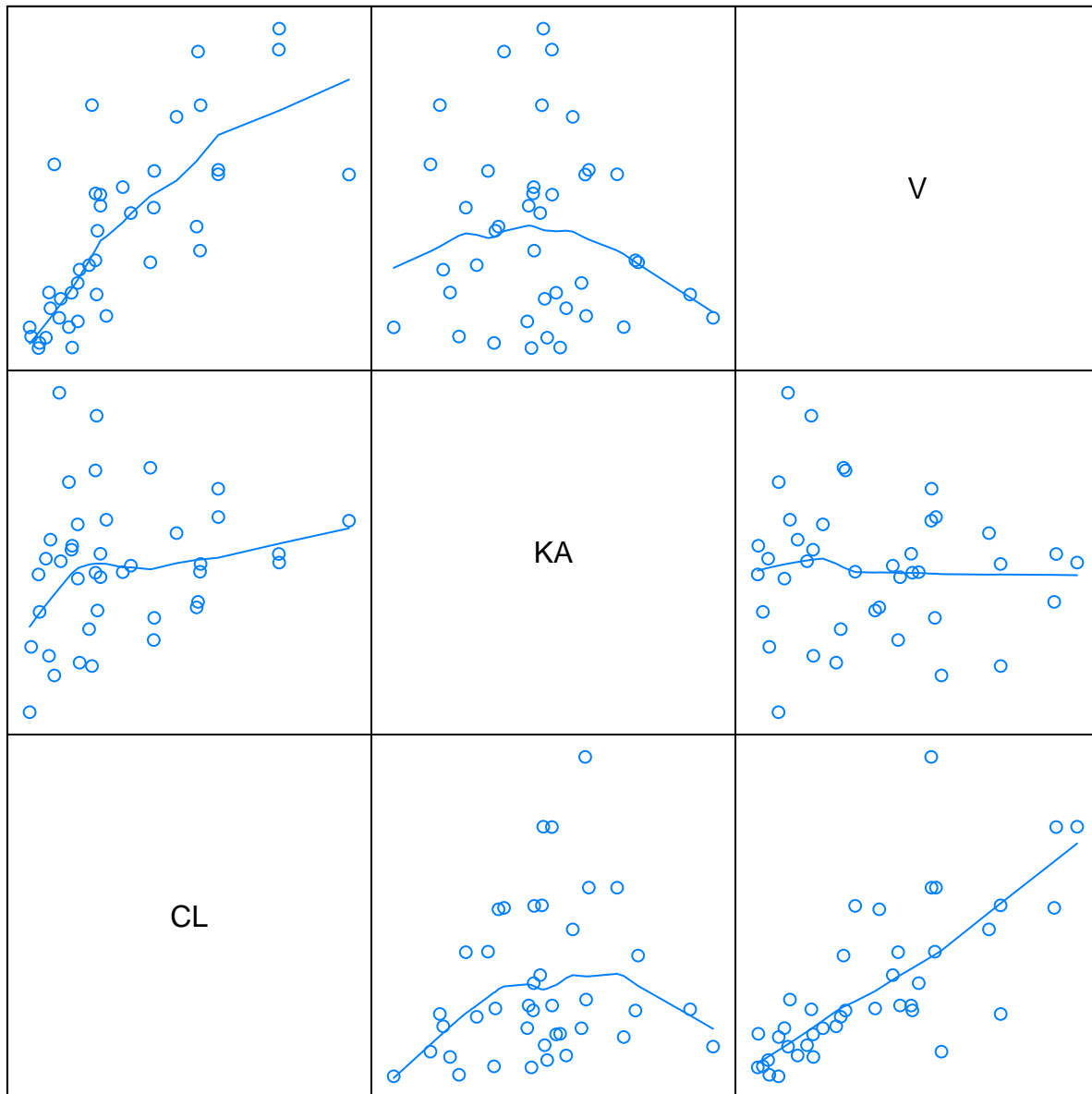
# Continuous Covariates vs. Categorical Covariates



# ETA Scatterplots

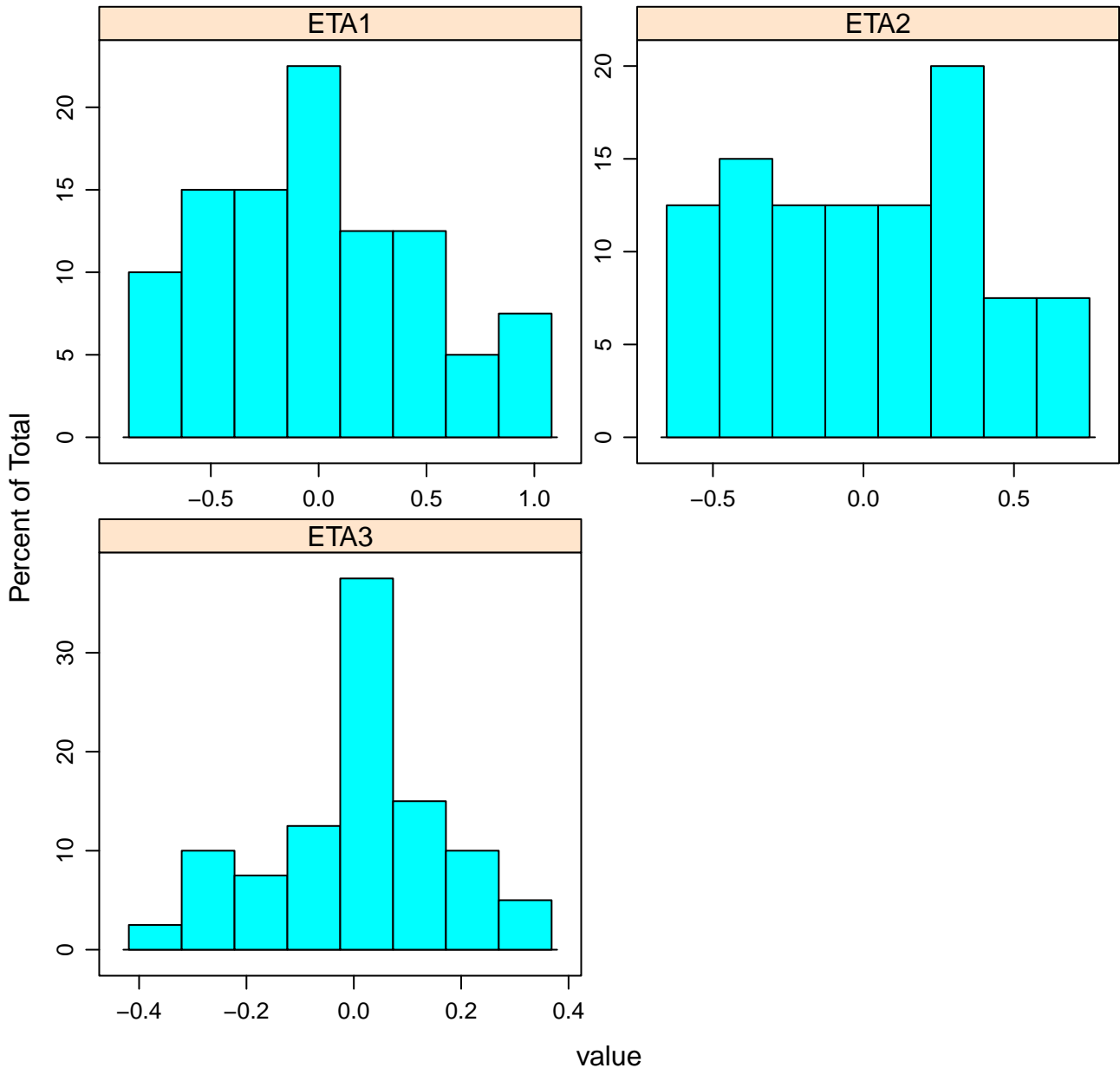


# Parameter Scatterplots

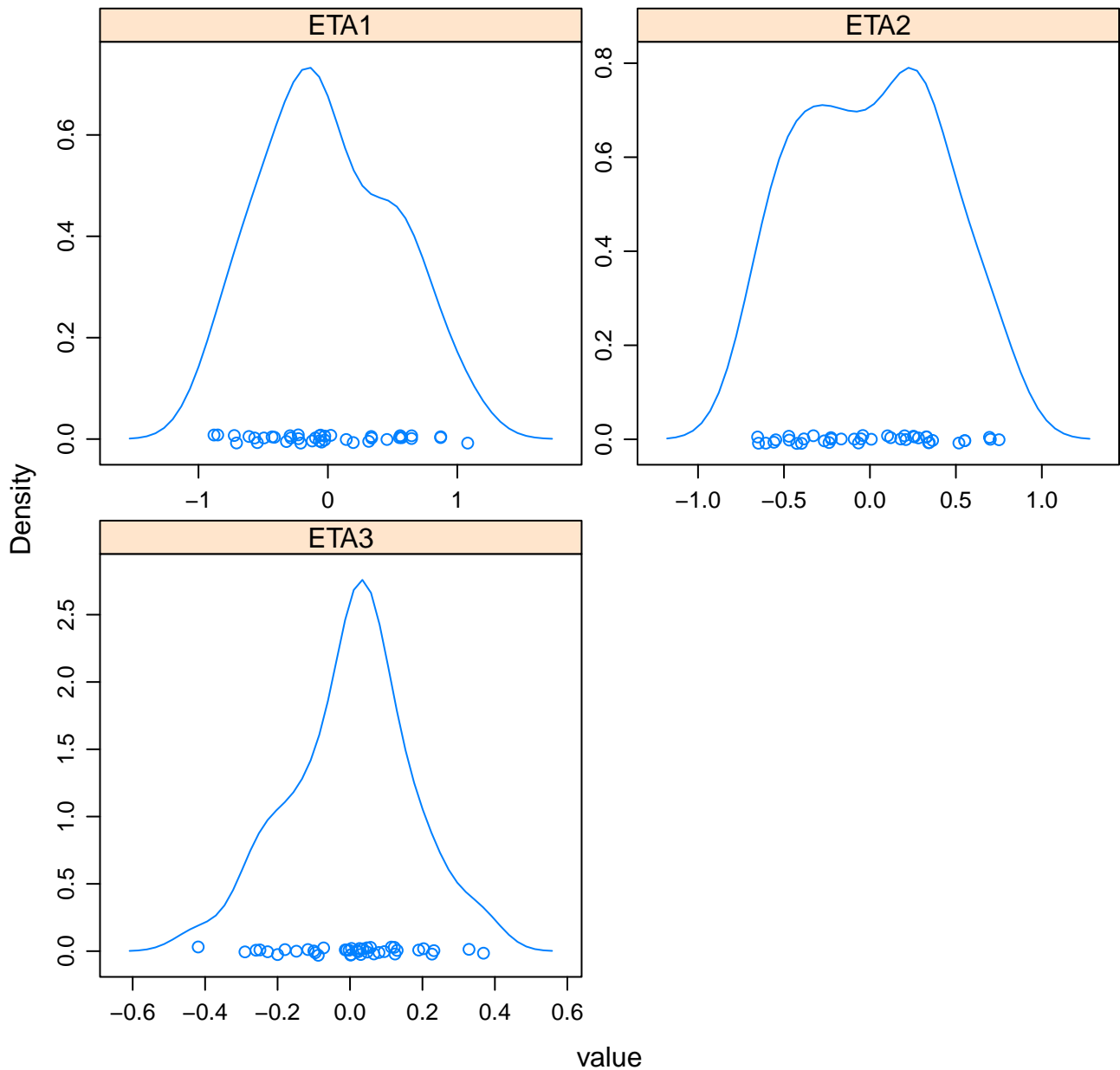




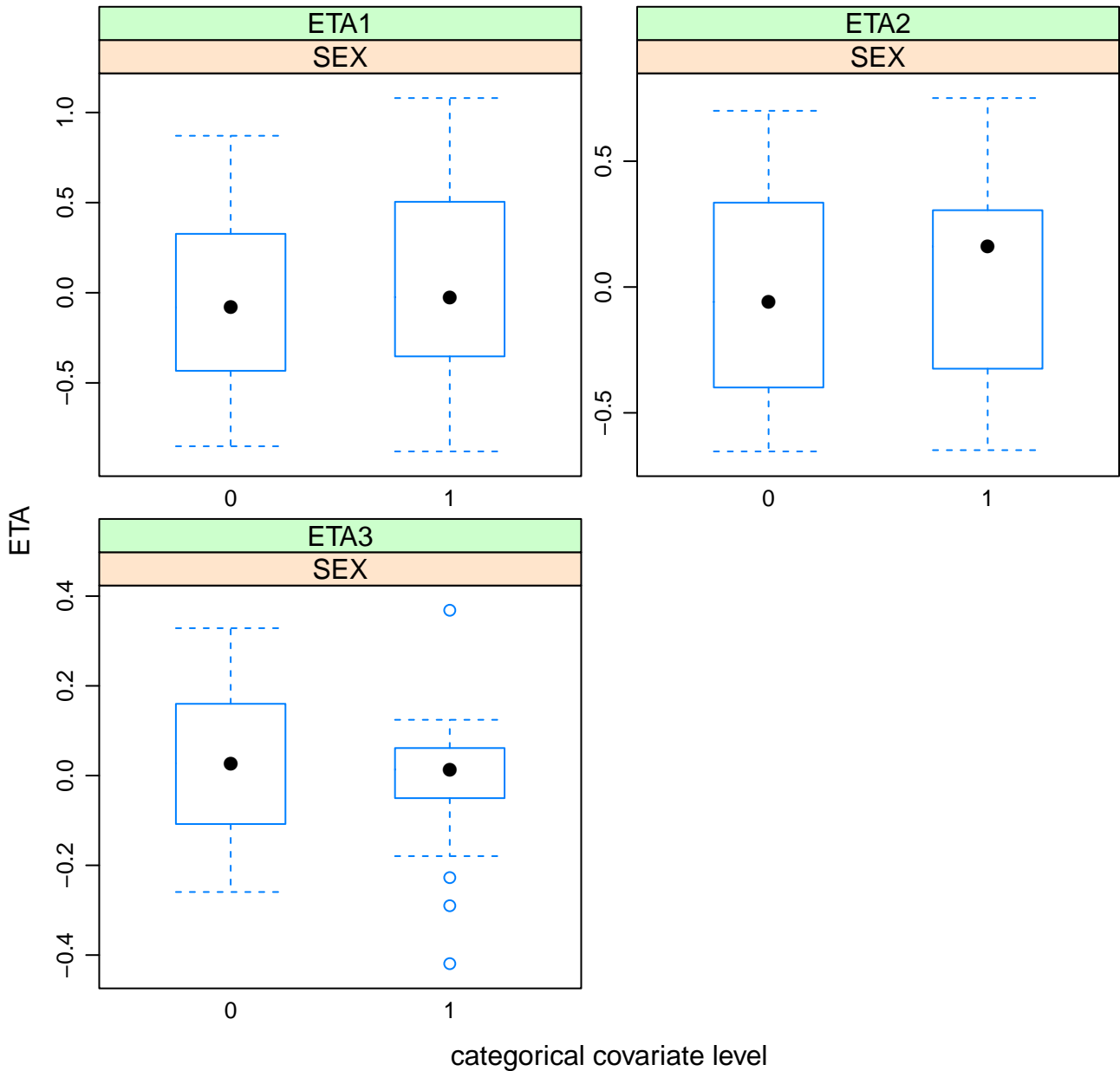
# Histograms of Etas



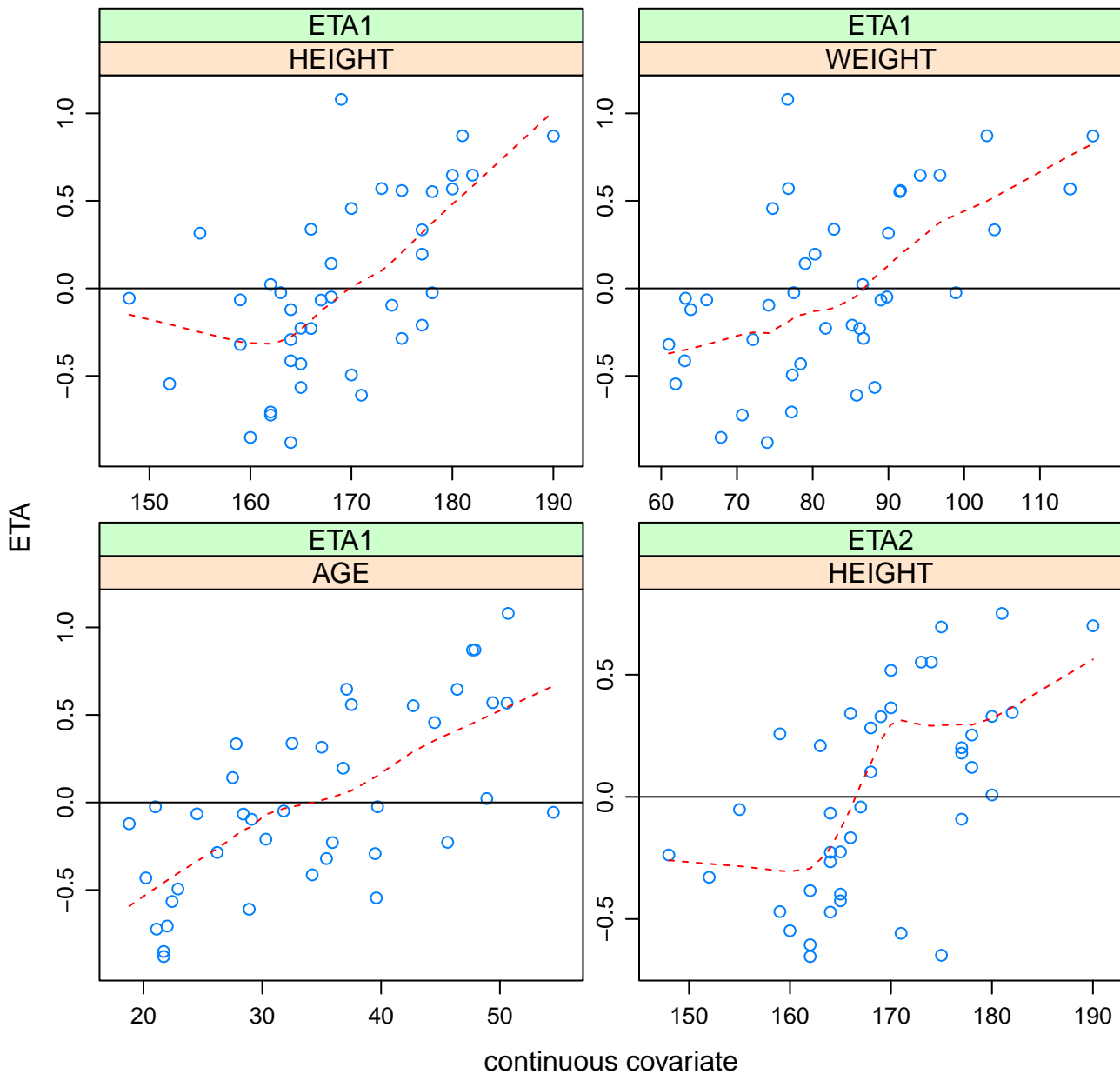
# Density of Etas



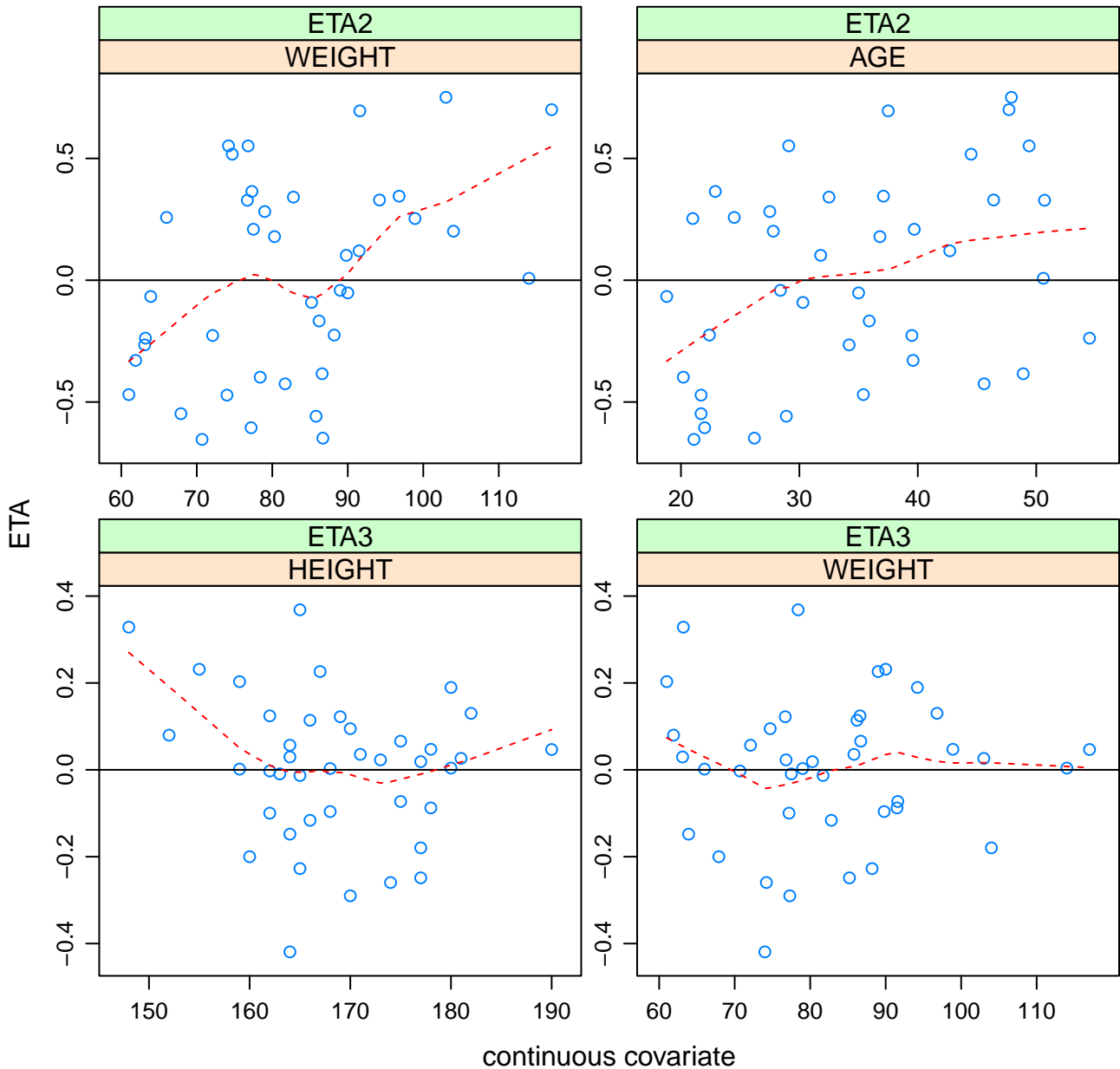
# Boxplots of Etas by Categorical Covariate



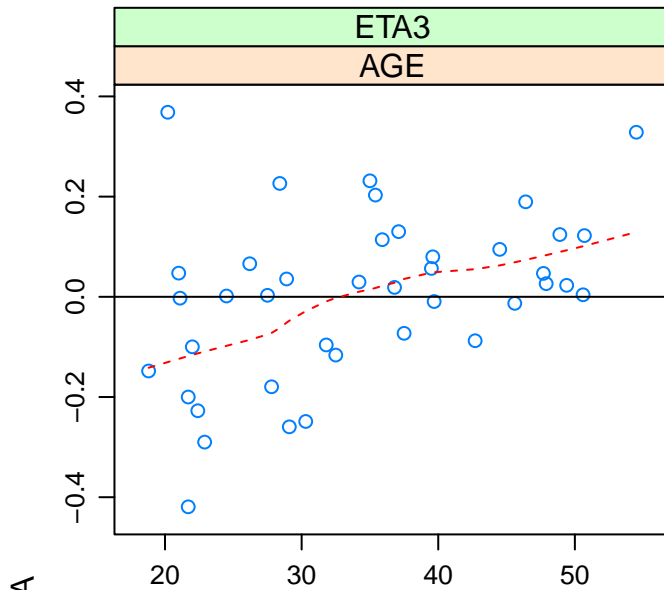
# Etas vs. Continuous Covariates



# Etas vs. Continuous Covariates

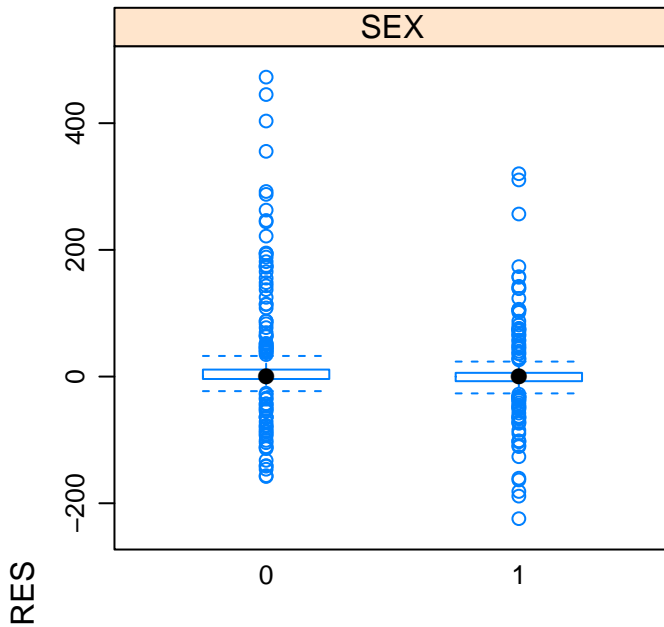


# Etas vs. Continuous Covariates

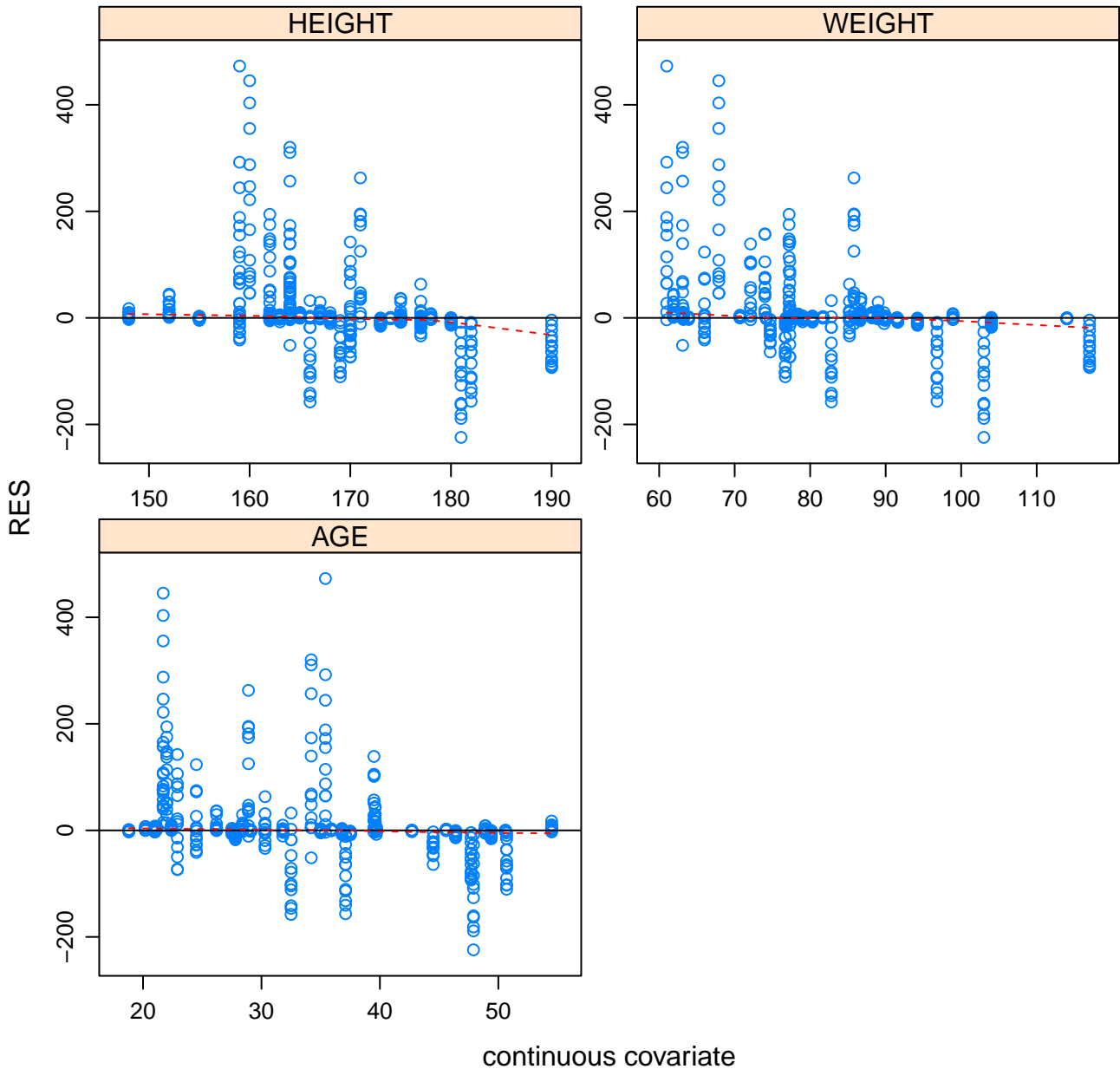


continuous covariate

# RES vs. Categorical Covariates

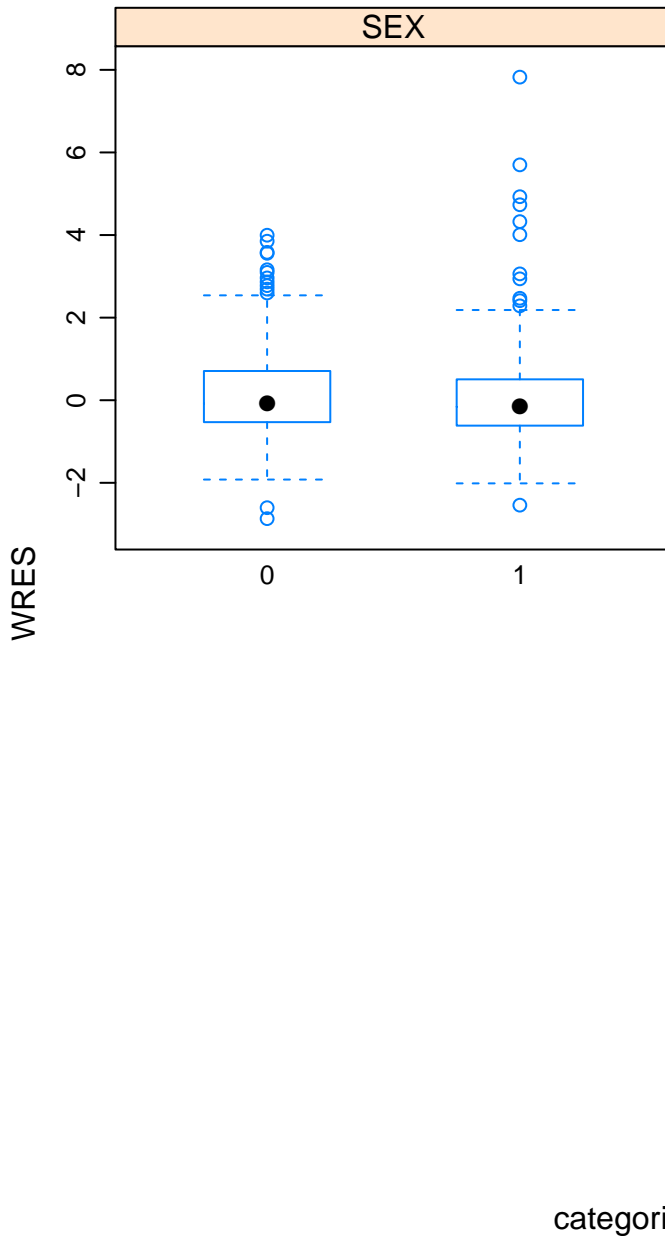


# RES vs. Continuous Covariates





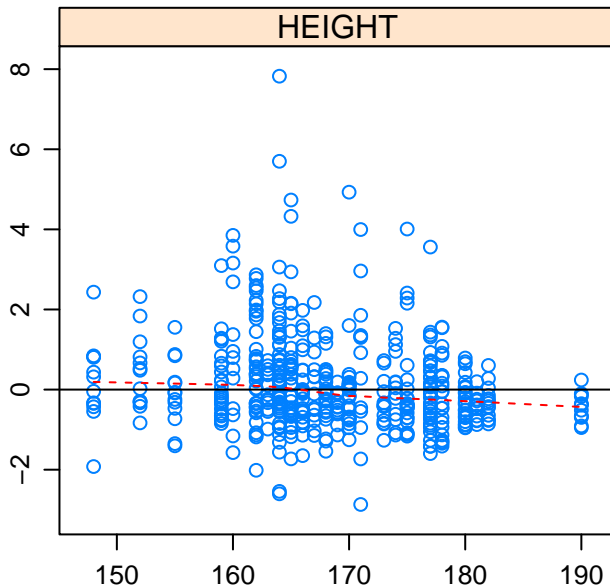
# WRES vs. Categorical Covariates



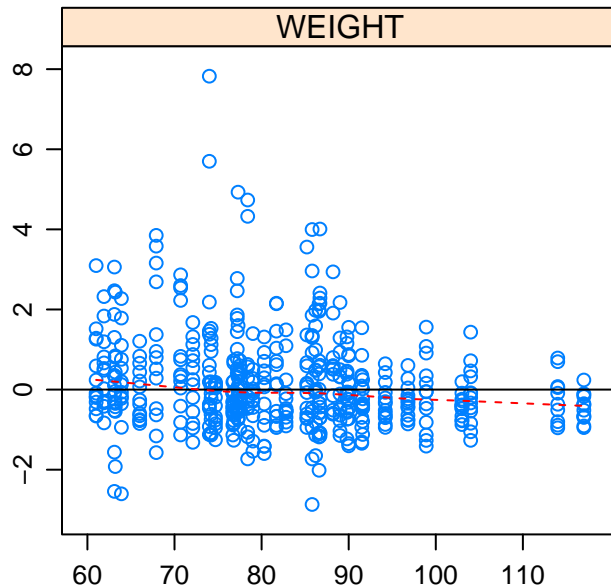
# WRES vs. Continuous Covariates

WRES

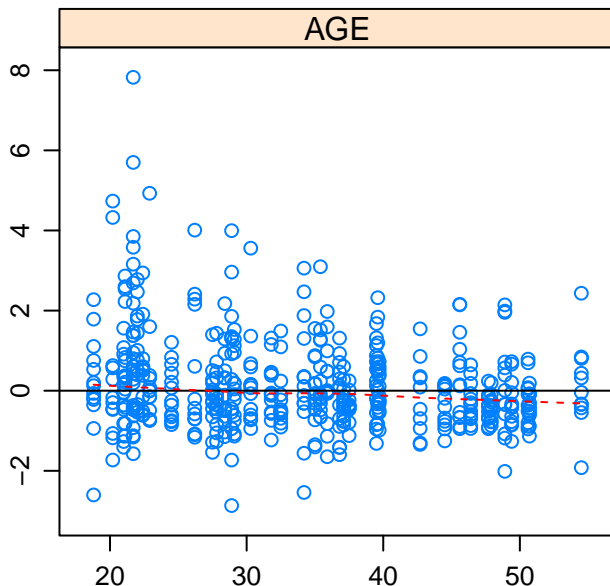
HEIGHT



WEIGHT

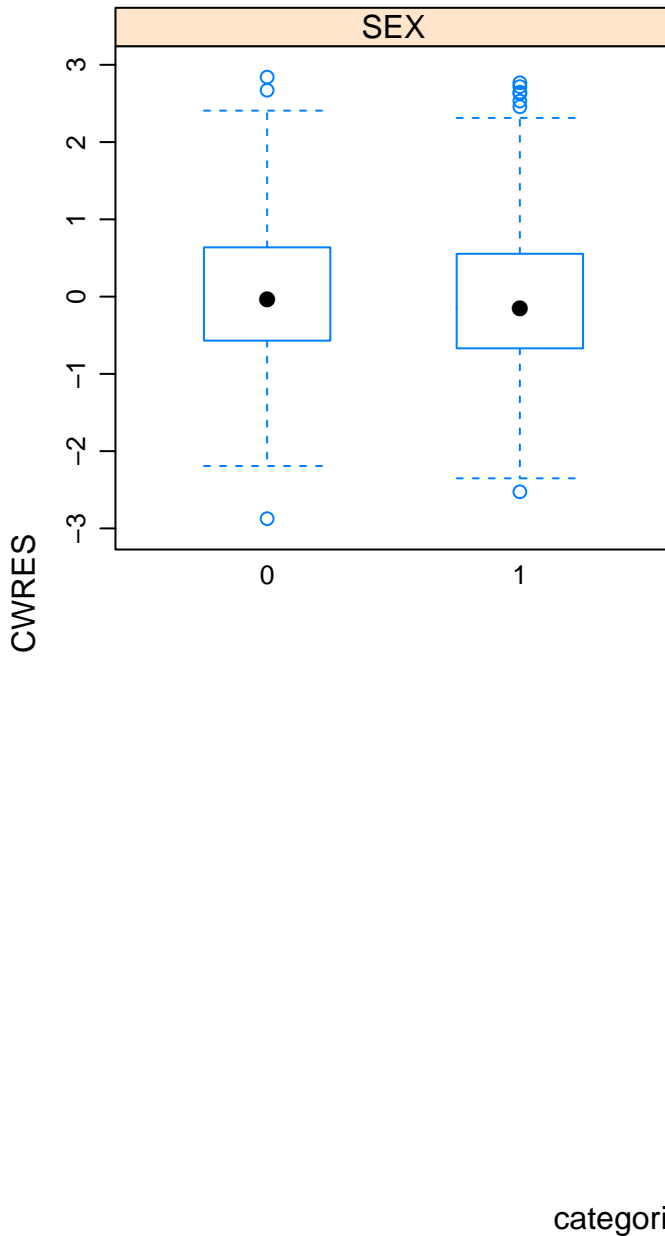


AGE

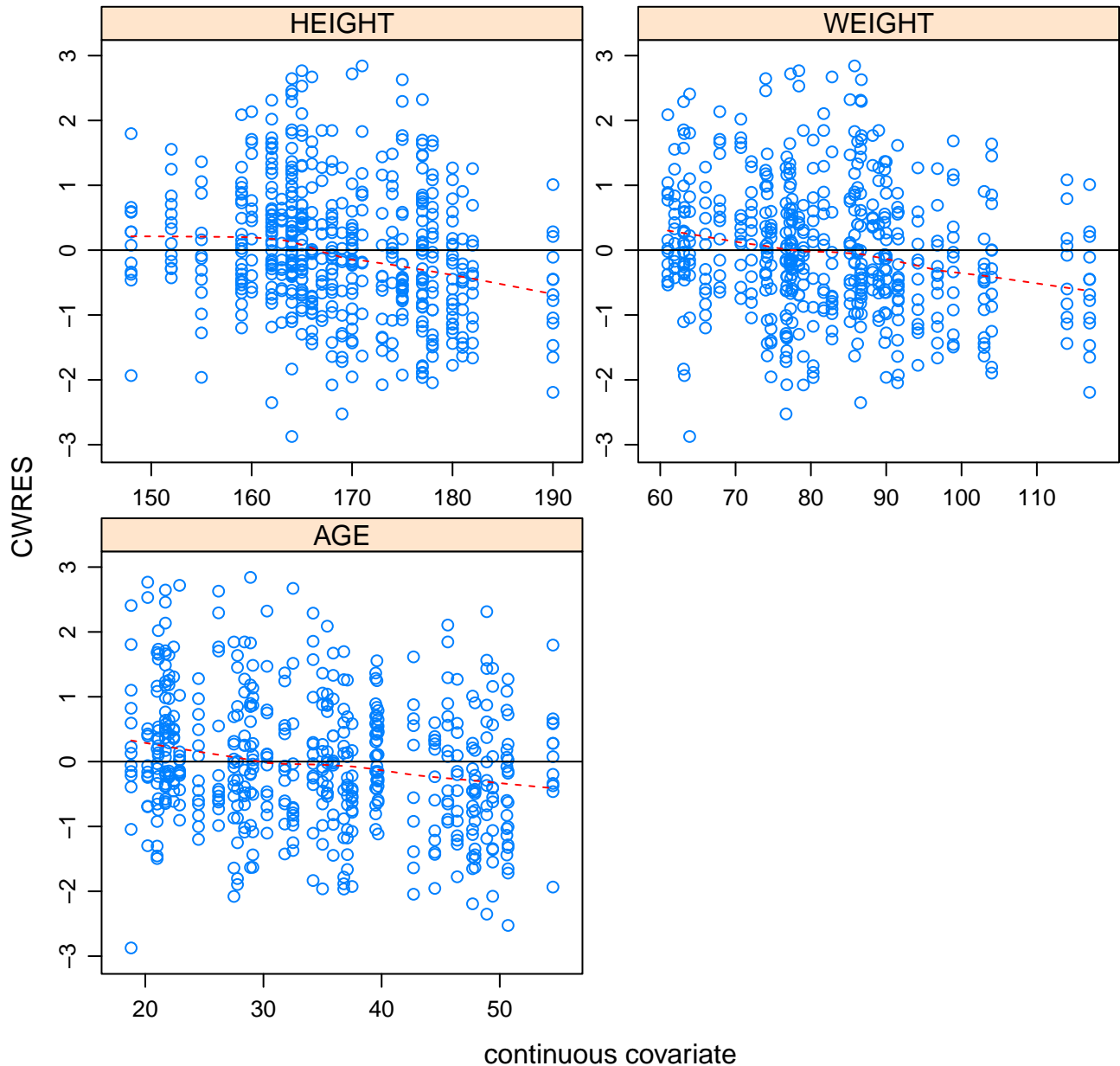


continuous covariate

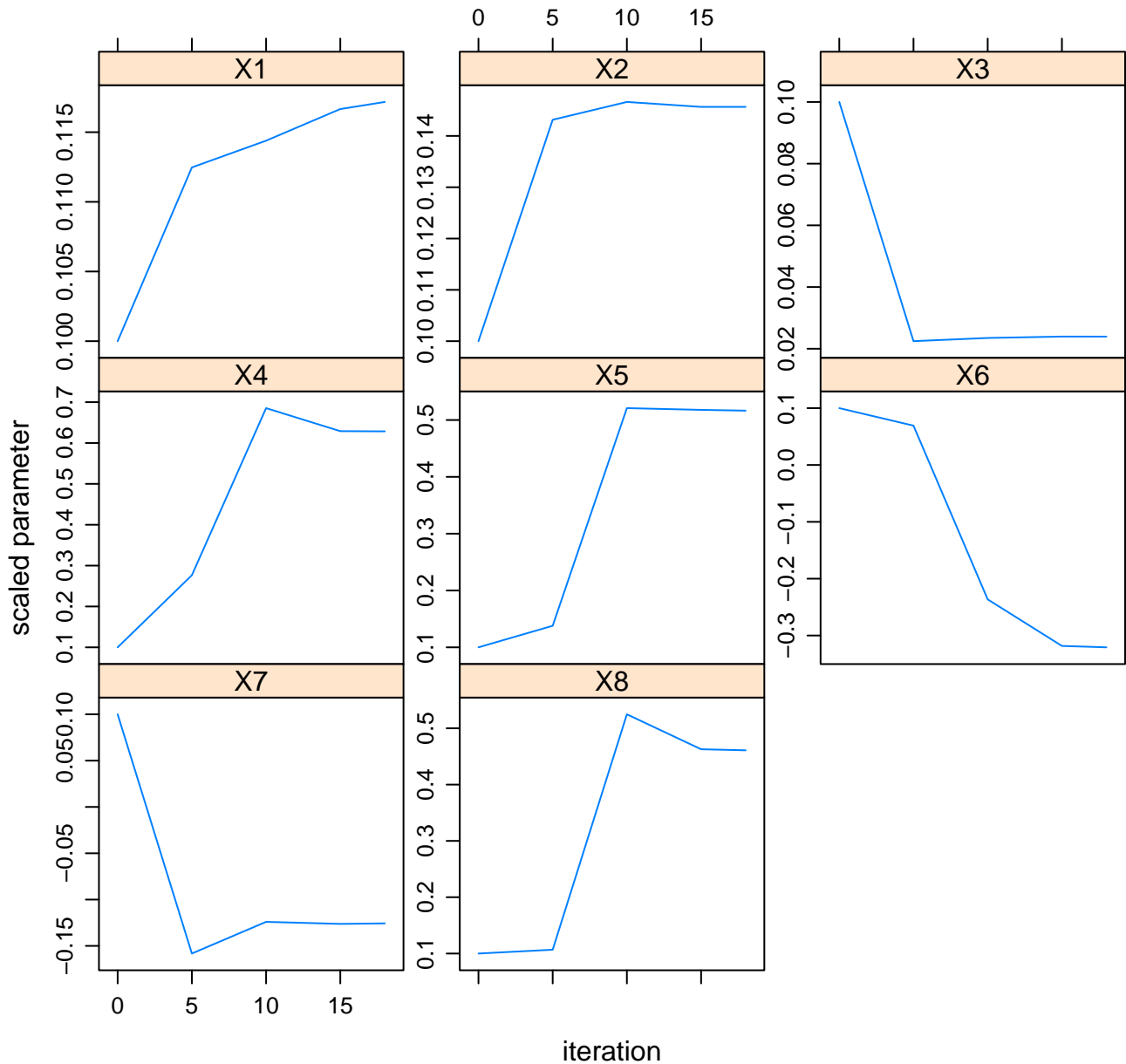
# CWRES vs. Categorical Covariates



# CWRES vs. Continuous Covariates



# Model 1001 parameter search



# Model 1001 gradient search

