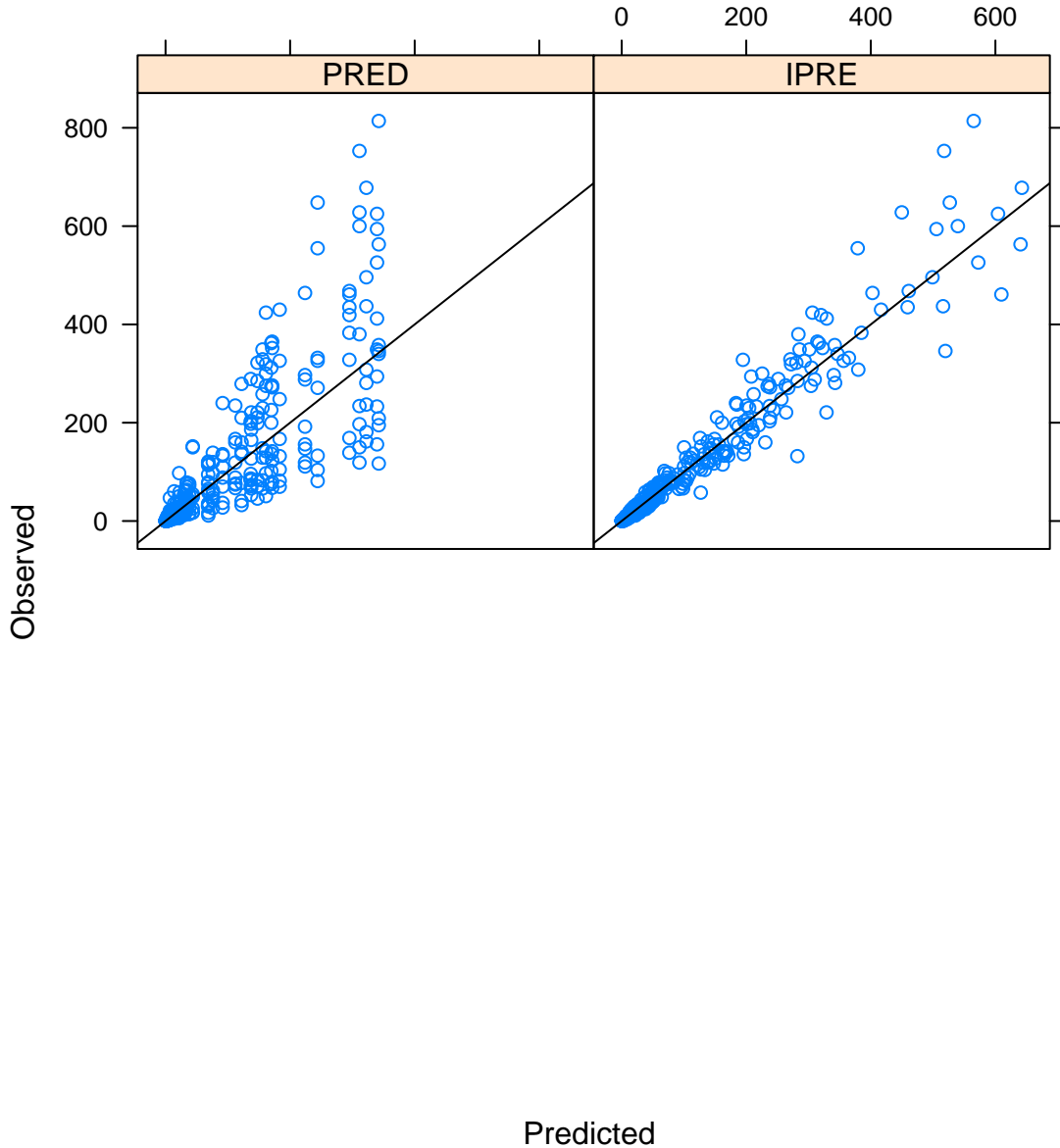


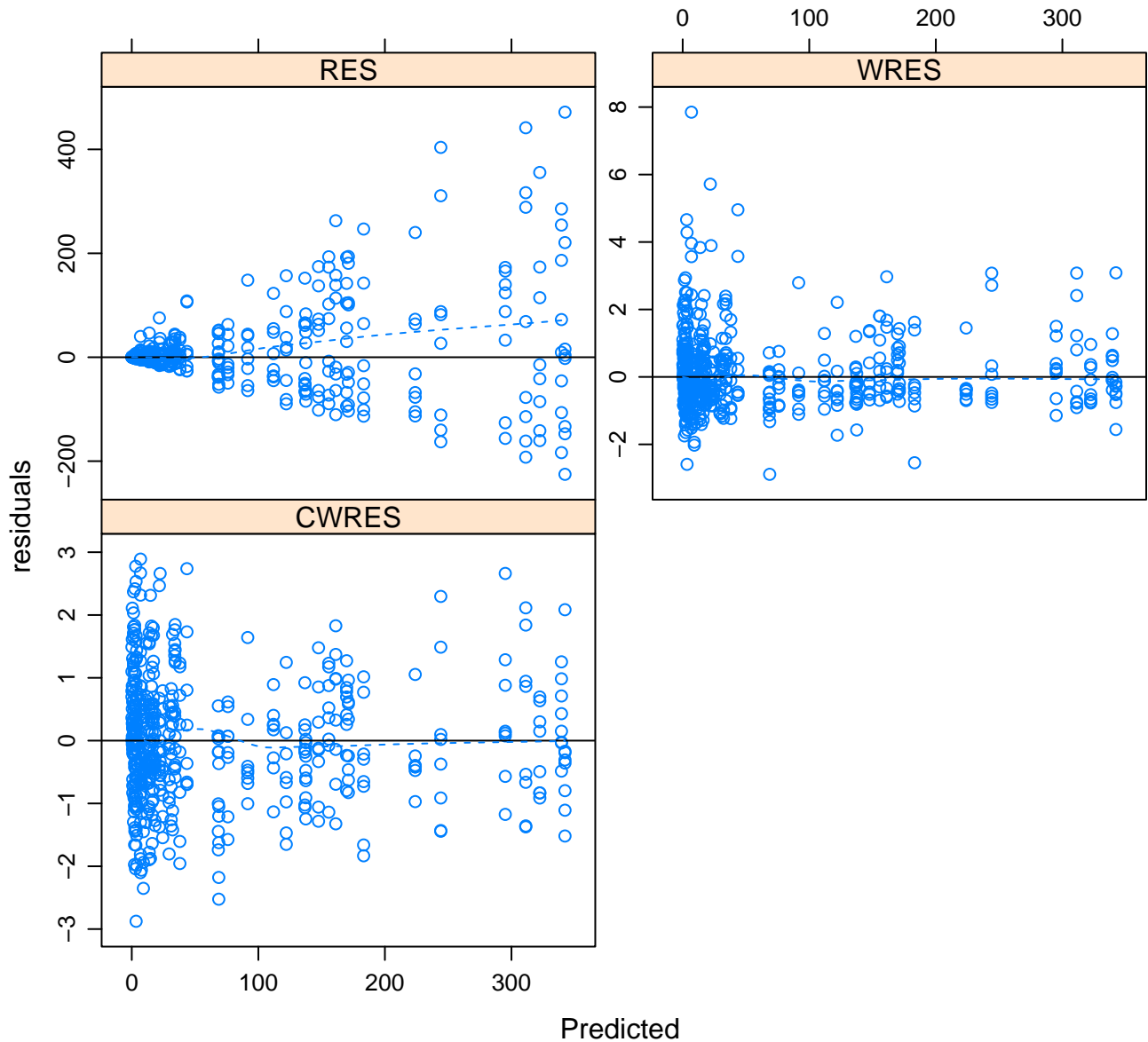
# Model 1002

## Observed vs. Predicted for all data



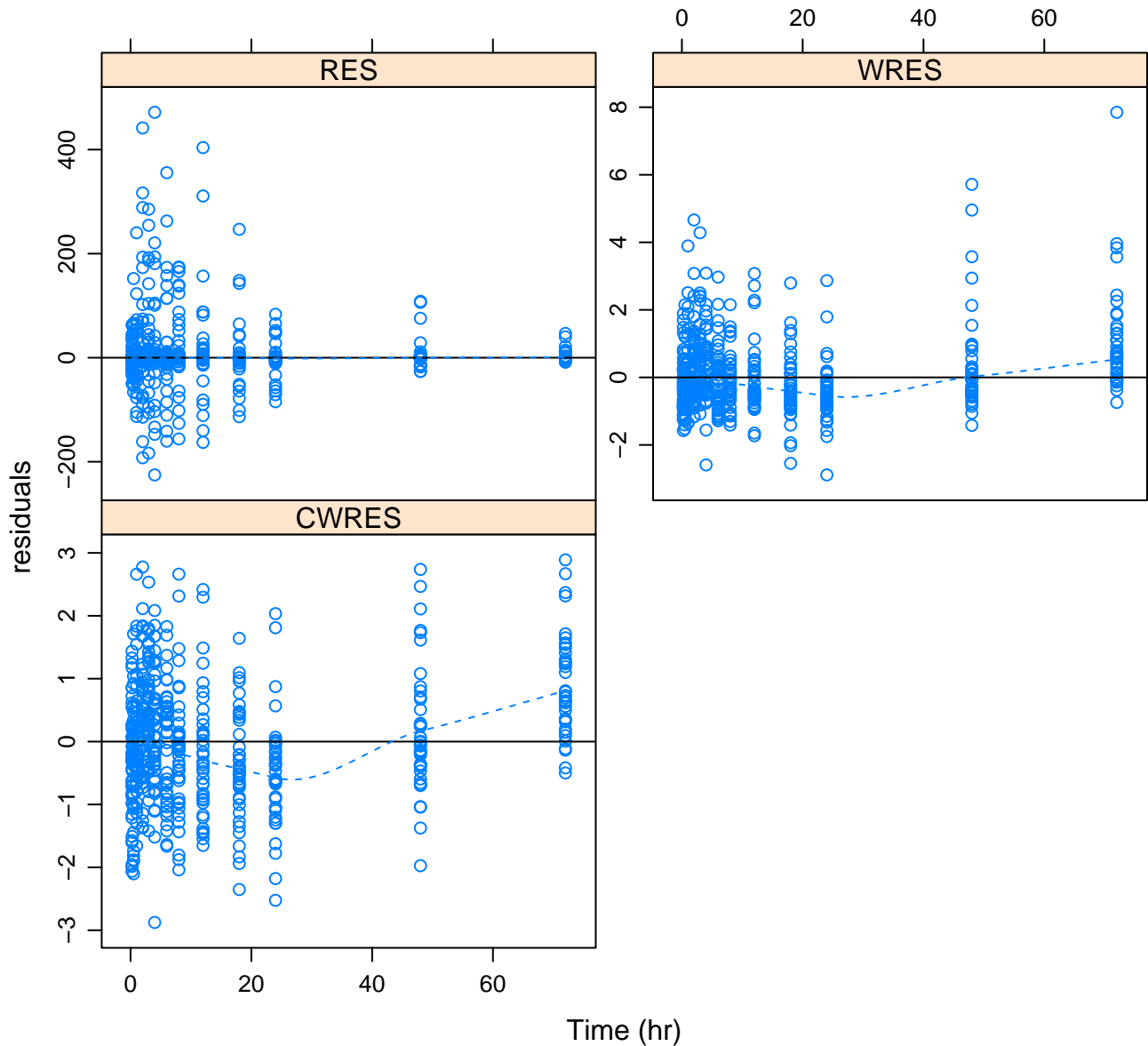
# Model 1002

## Residuals vs. Predicted for all data



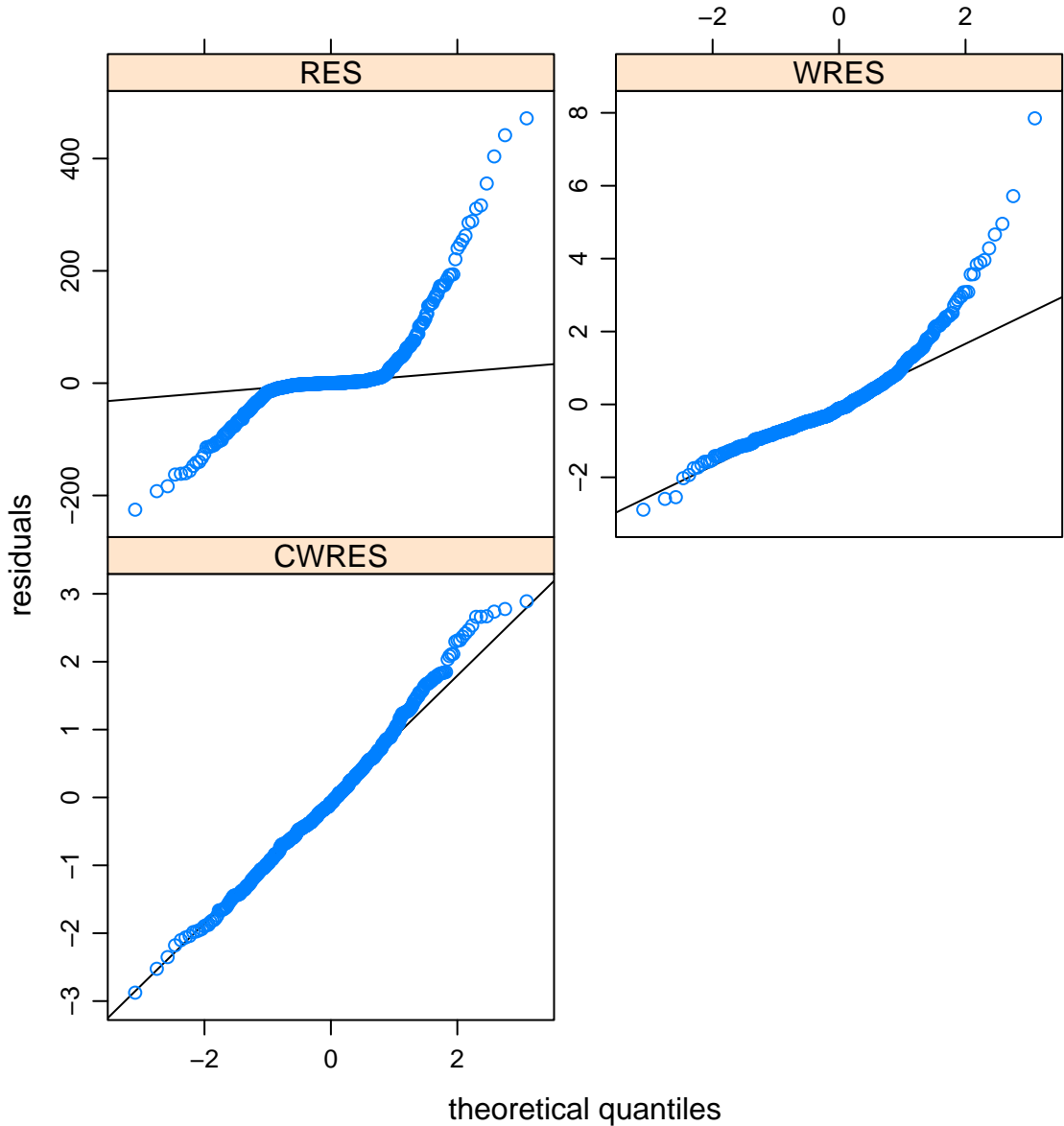
# Model 1002

## Residuals vs. Time for all data



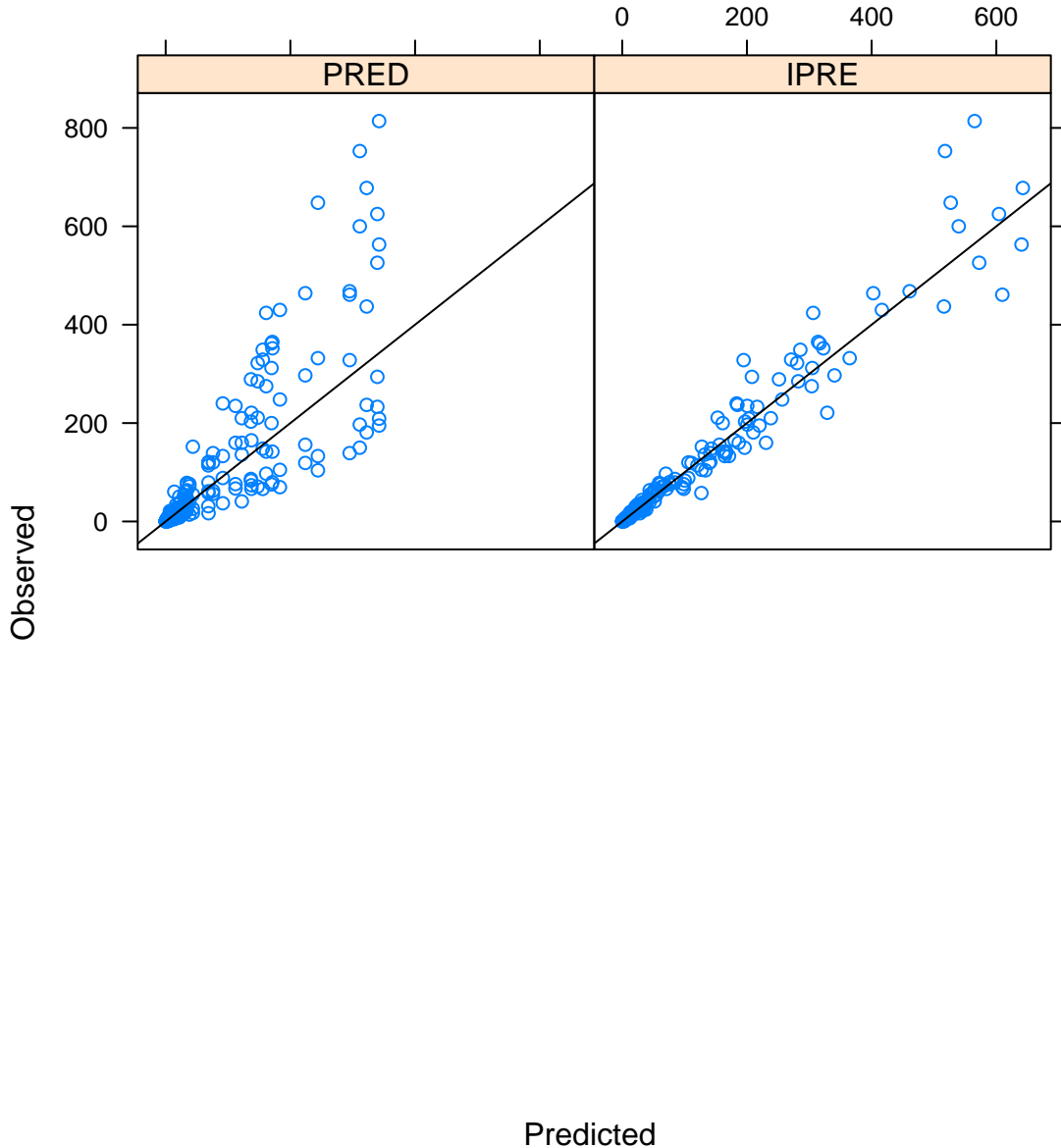
# Model 1002

## Normal Q-Q Plot Residuals for all data



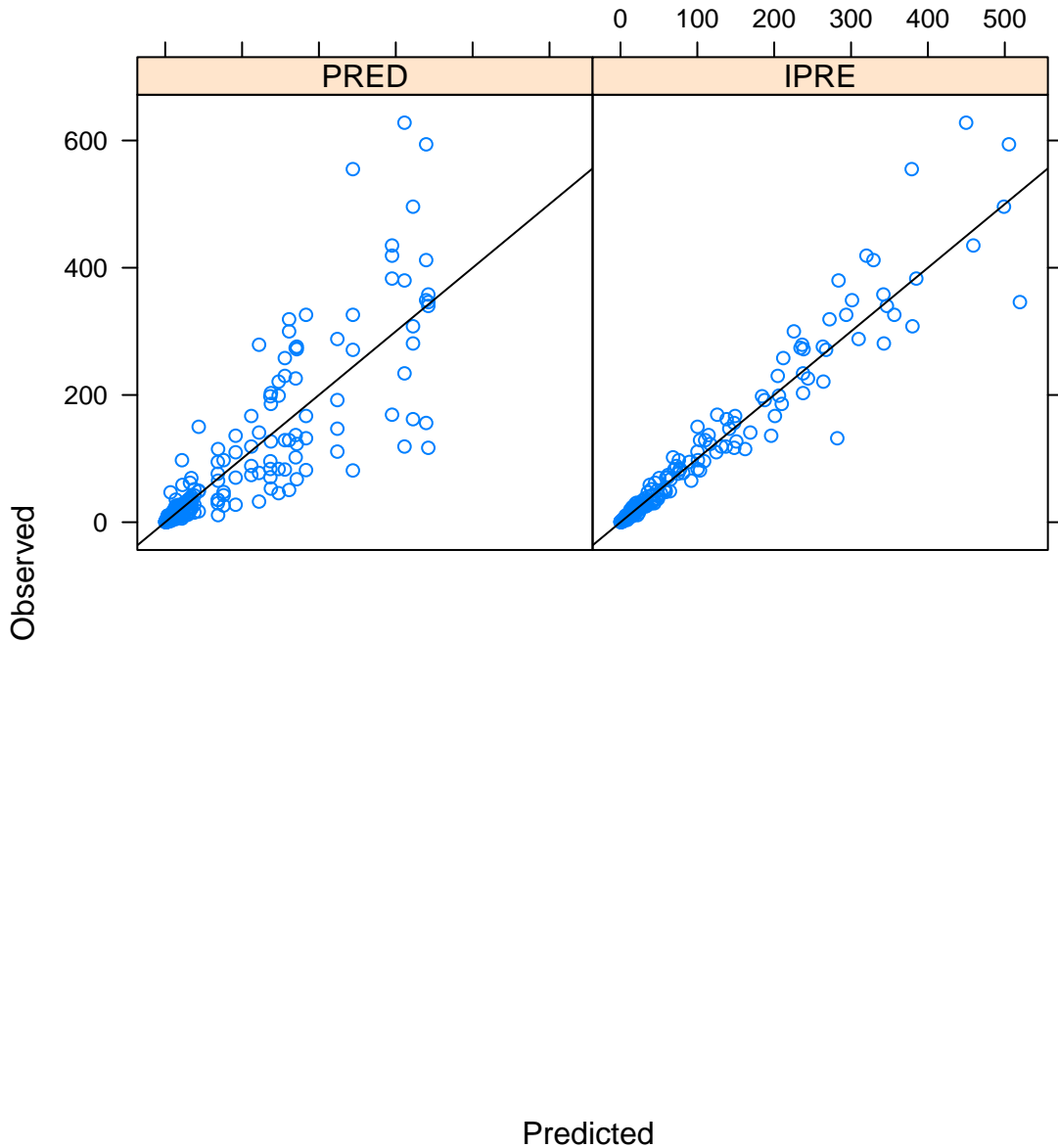
# Model 1002

## Observed vs. Predicted for female data



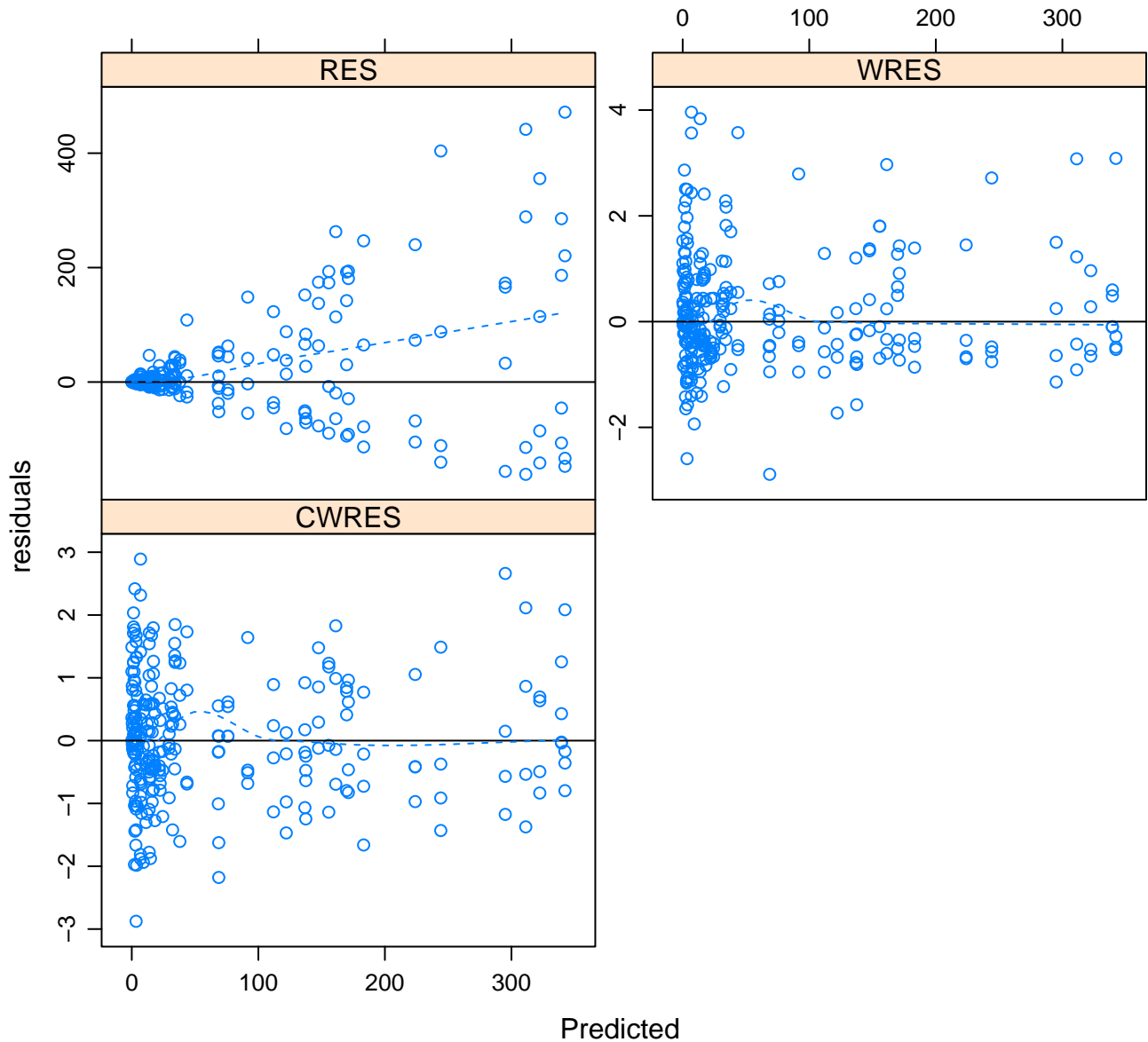
# Model 1002

## Observed vs. Predicted for male data



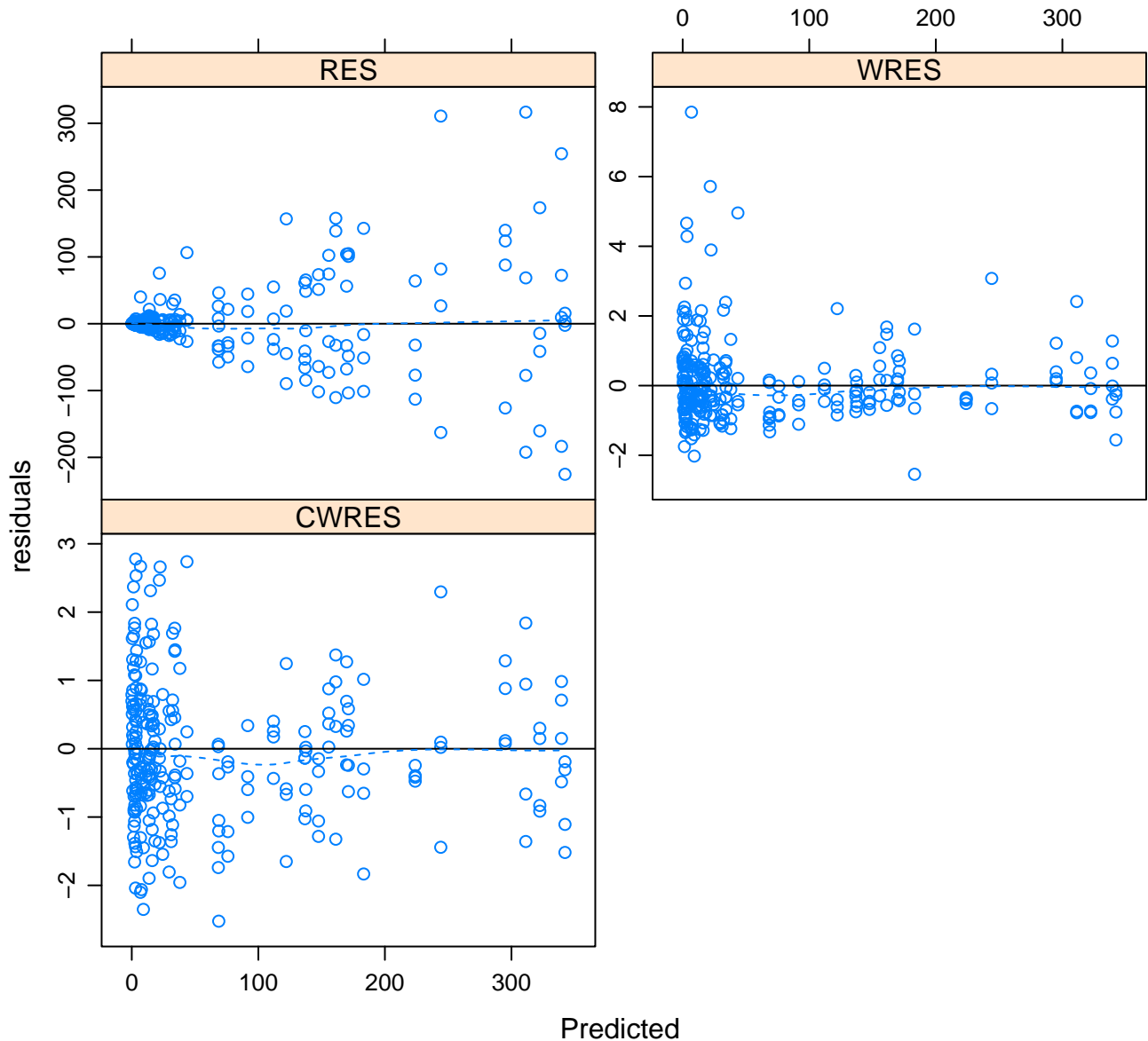
# Model 1002

## Residuals vs. Predicted for female data



# Model 1002

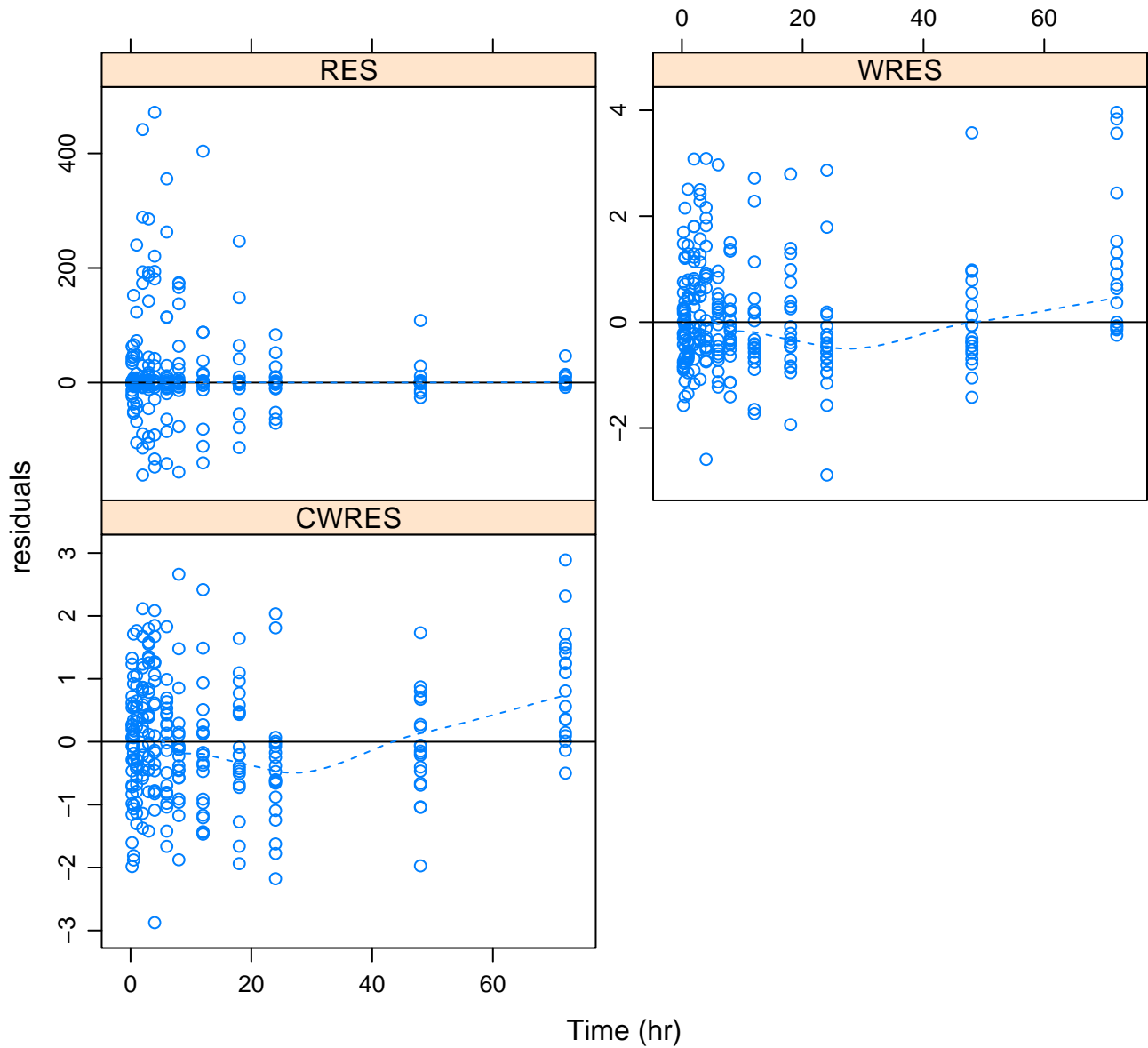
## Residuals vs. Predicted for male data





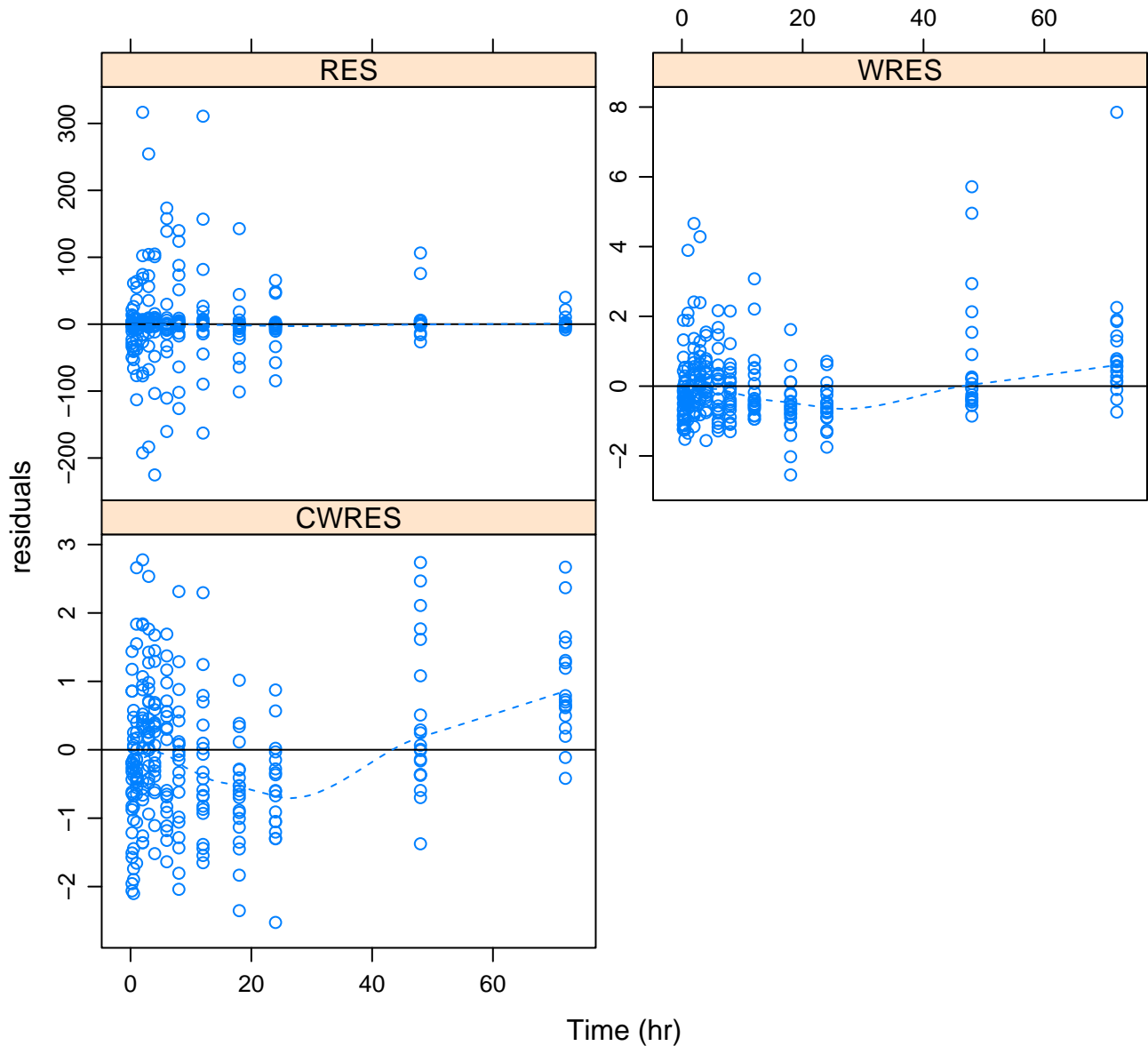
# Model 1002

## Residuals vs. Time for female data



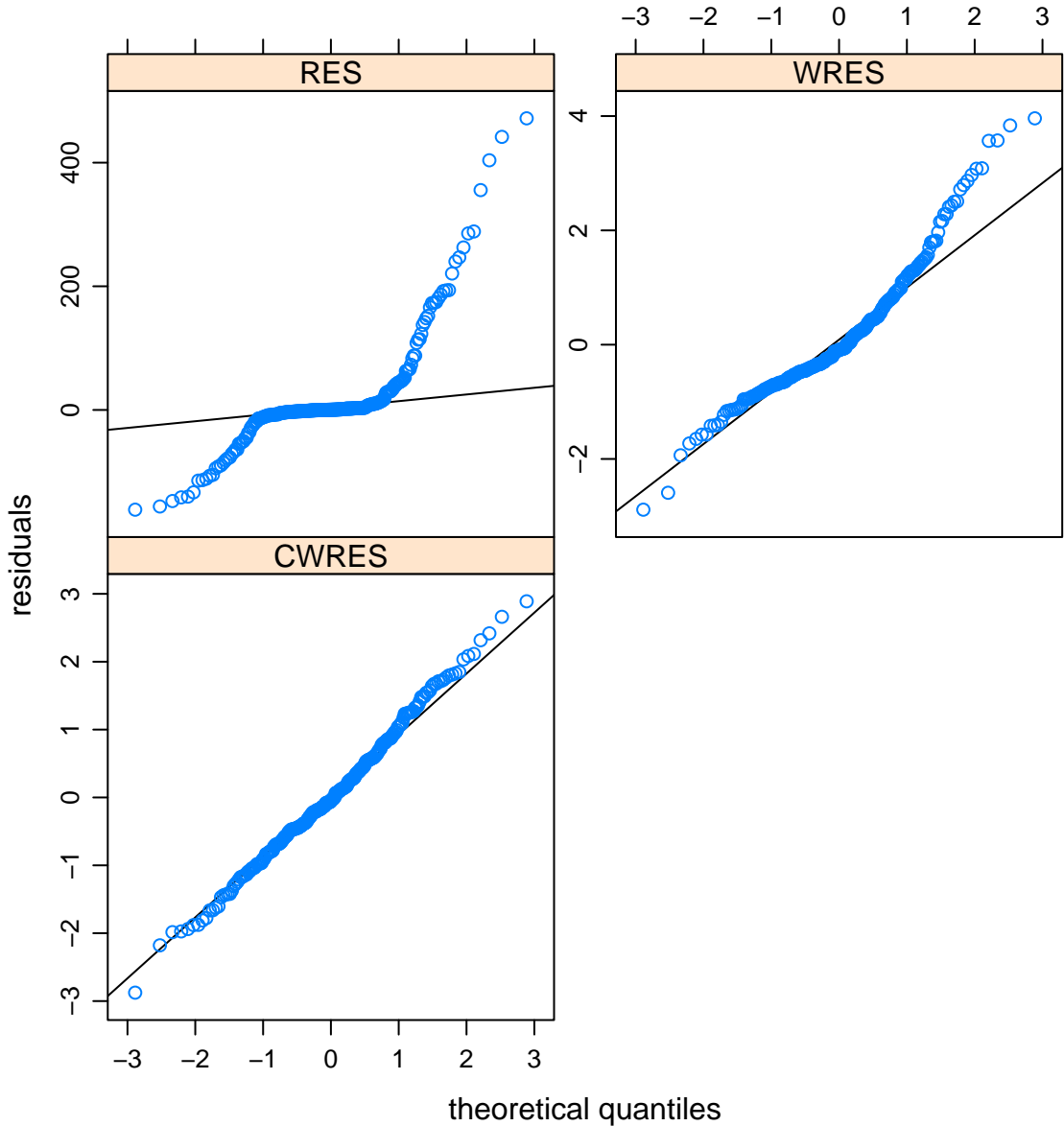
# Model 1002

## Residuals vs. Time for male data



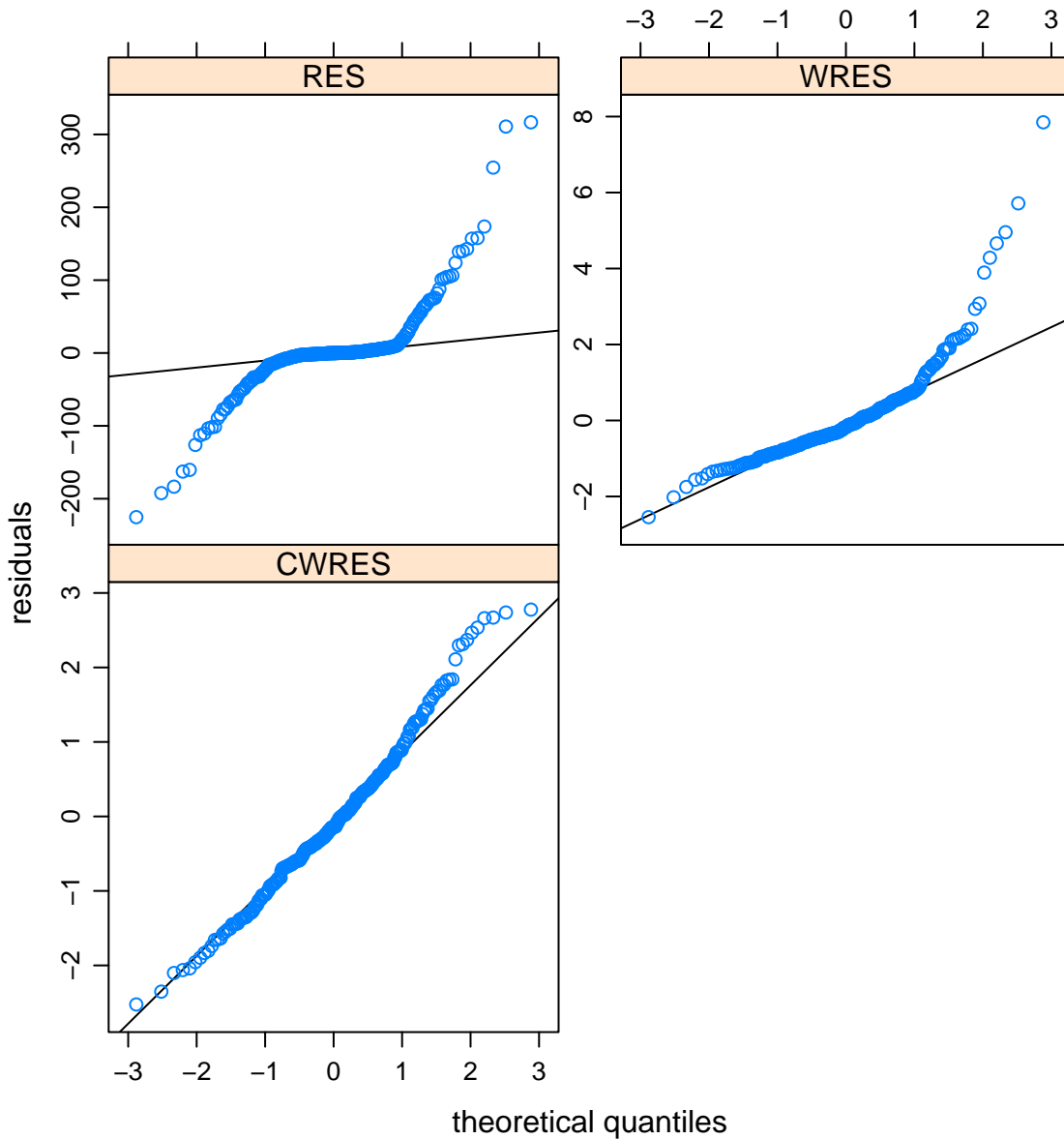
# Model 1002

## Normal Q-Q Plot Residuals for female data



# Model 1002

## Normal Q-Q Plot Residuals for male data



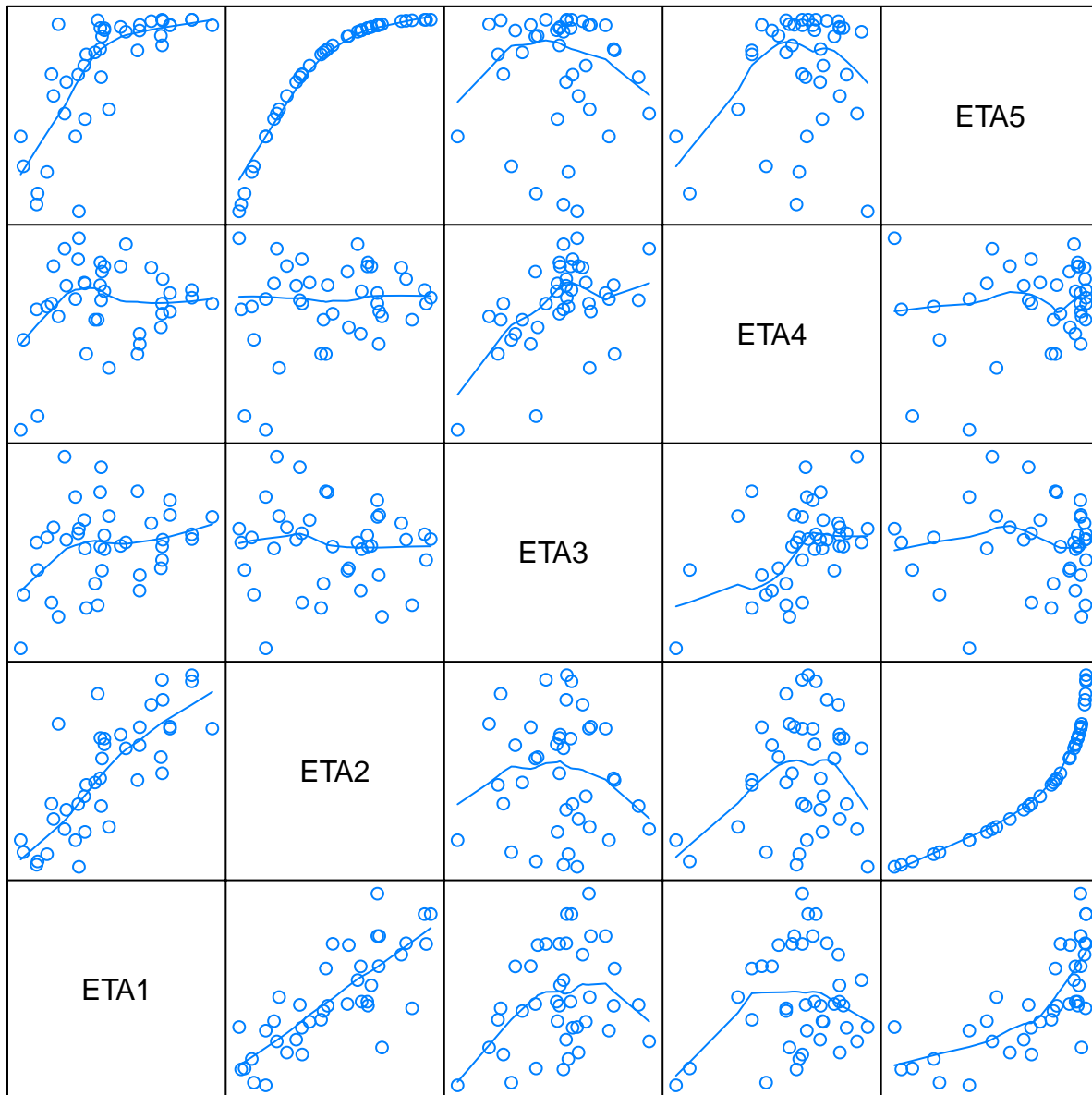
# Covariate Scatterplots



# Continuous Covariates vs. Categorical Covariates



# ETA Scatterplots

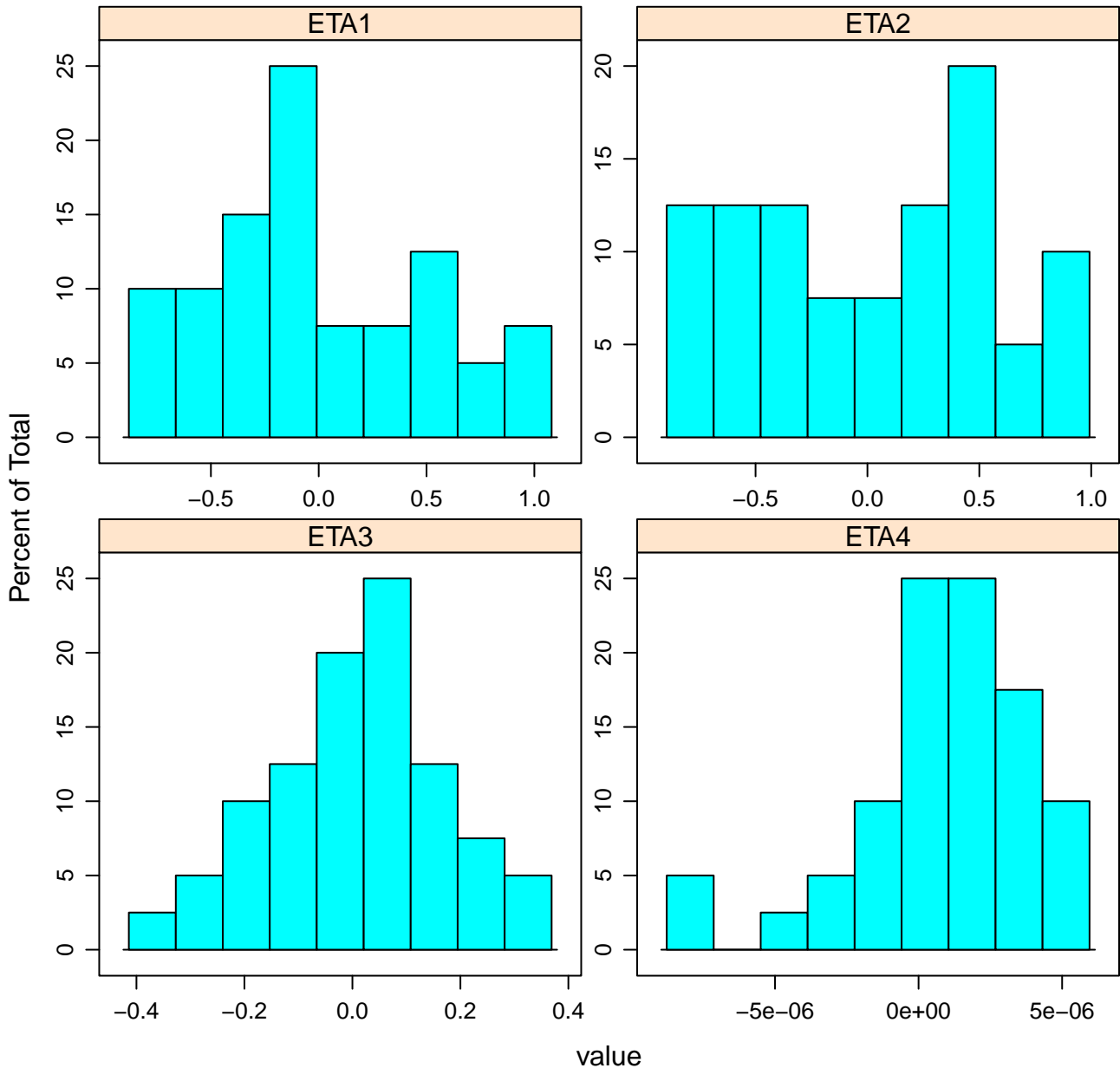


# Parameter Scatterplots

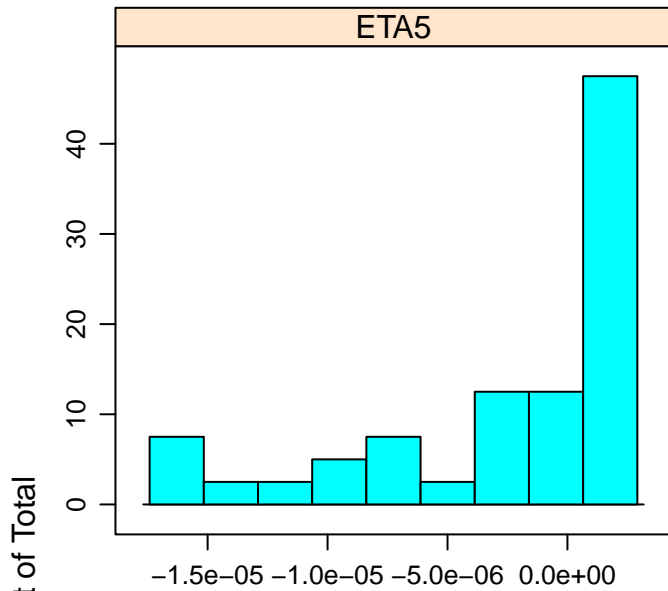




# Histograms of Etas

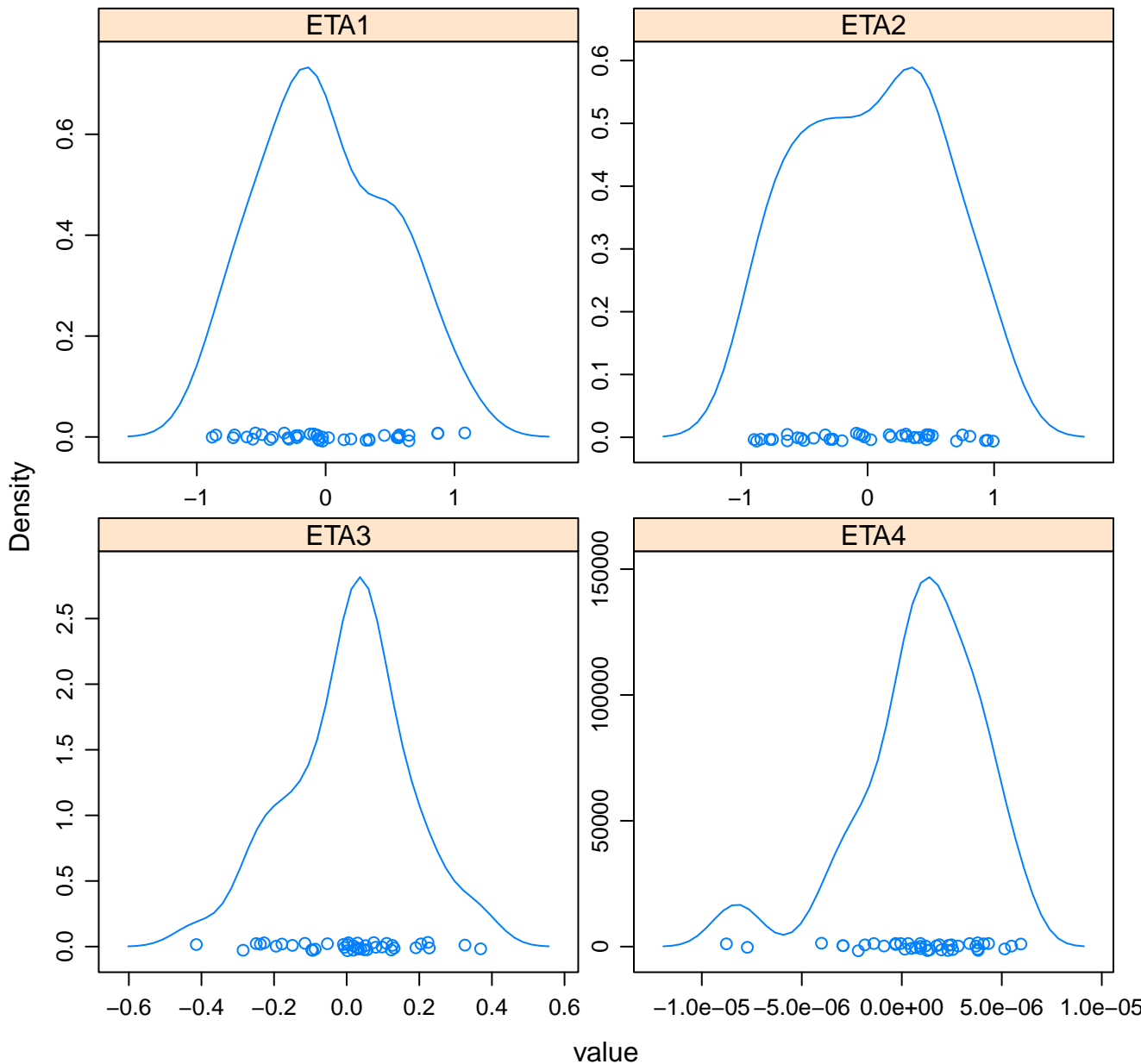


# Histograms of Etas

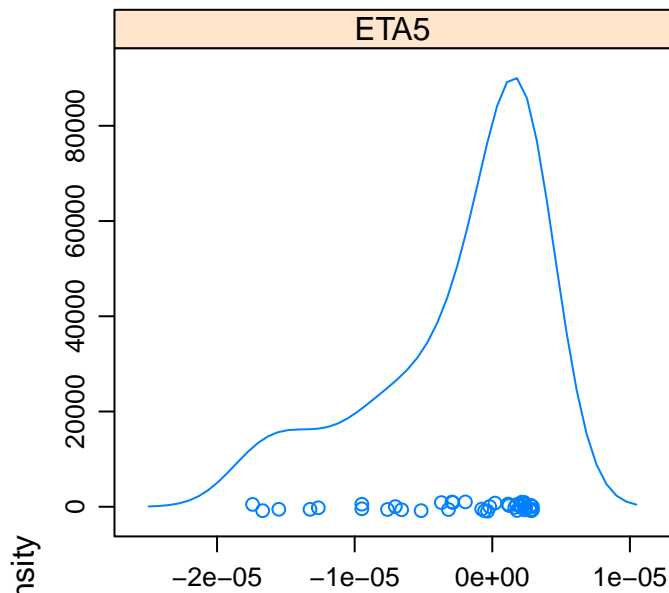


value

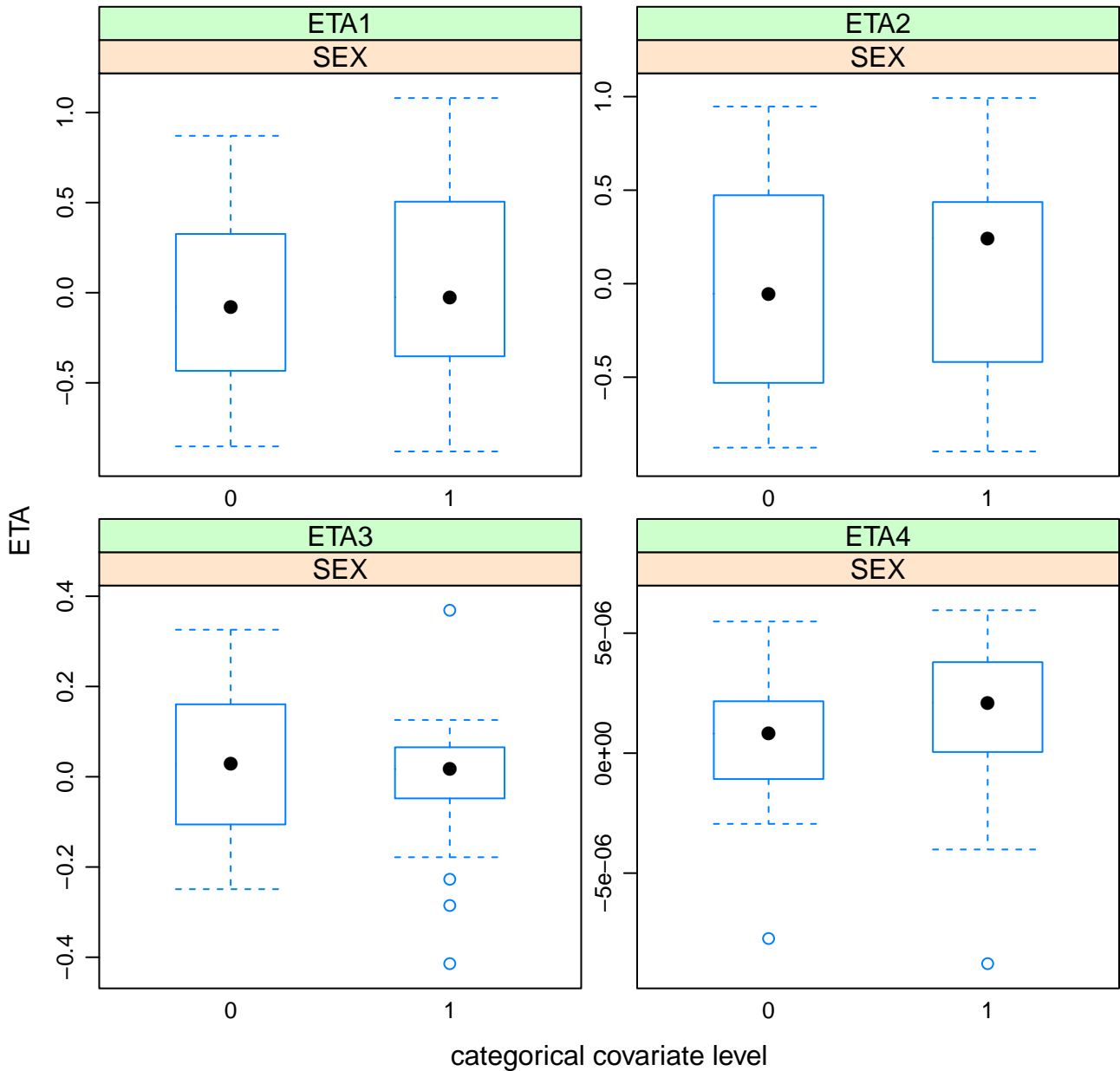
# Density of Etas



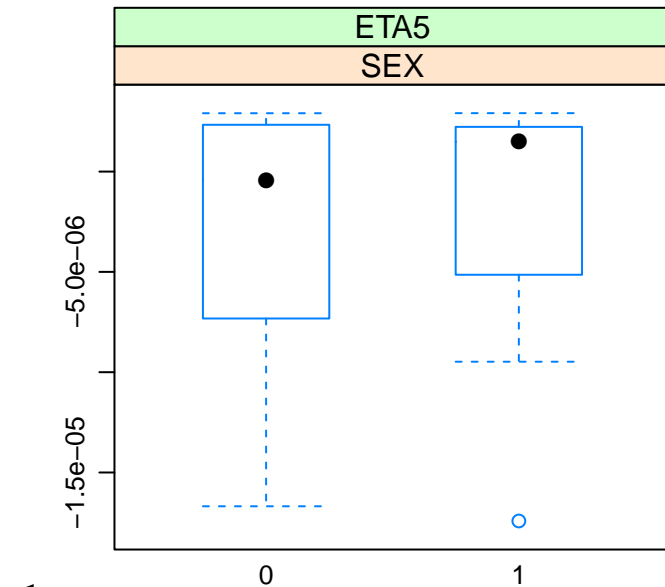
# Density of Etas



# Boxplots of Etas by Categorical Covariate

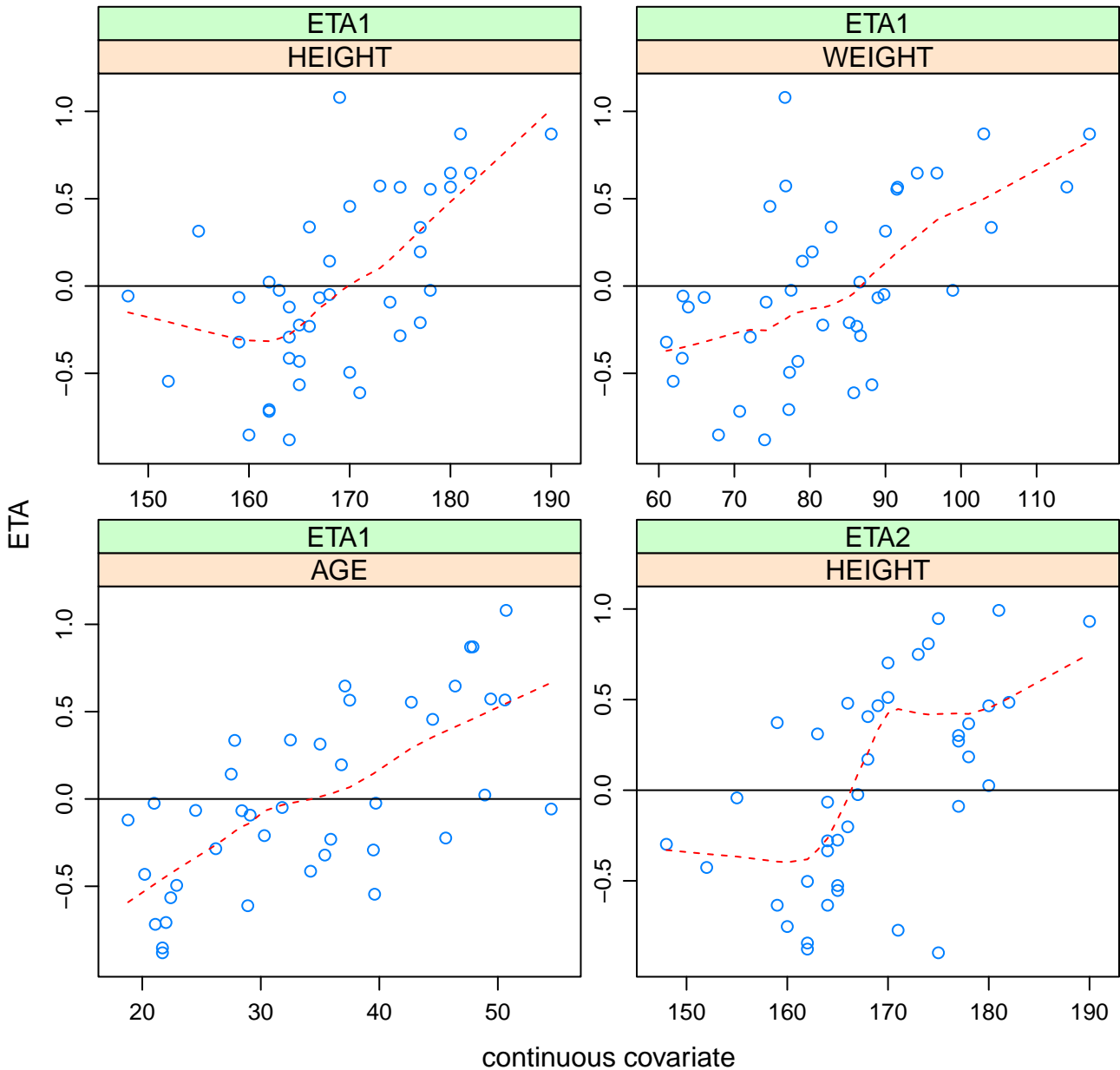


# Boxplots of Etas by Categorical Covariate

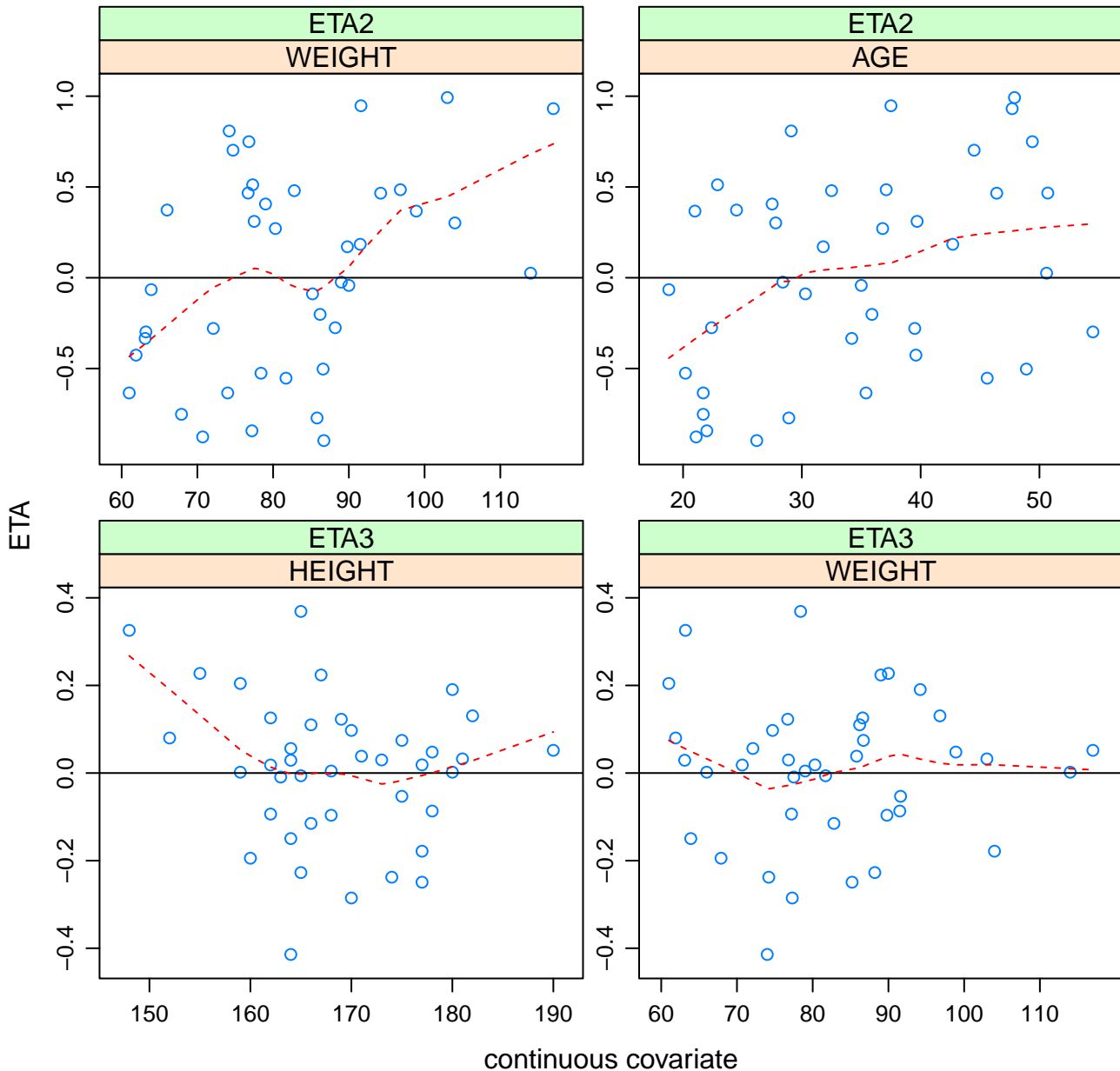


categorical covariate level

# Etas vs. Continuous Covariates

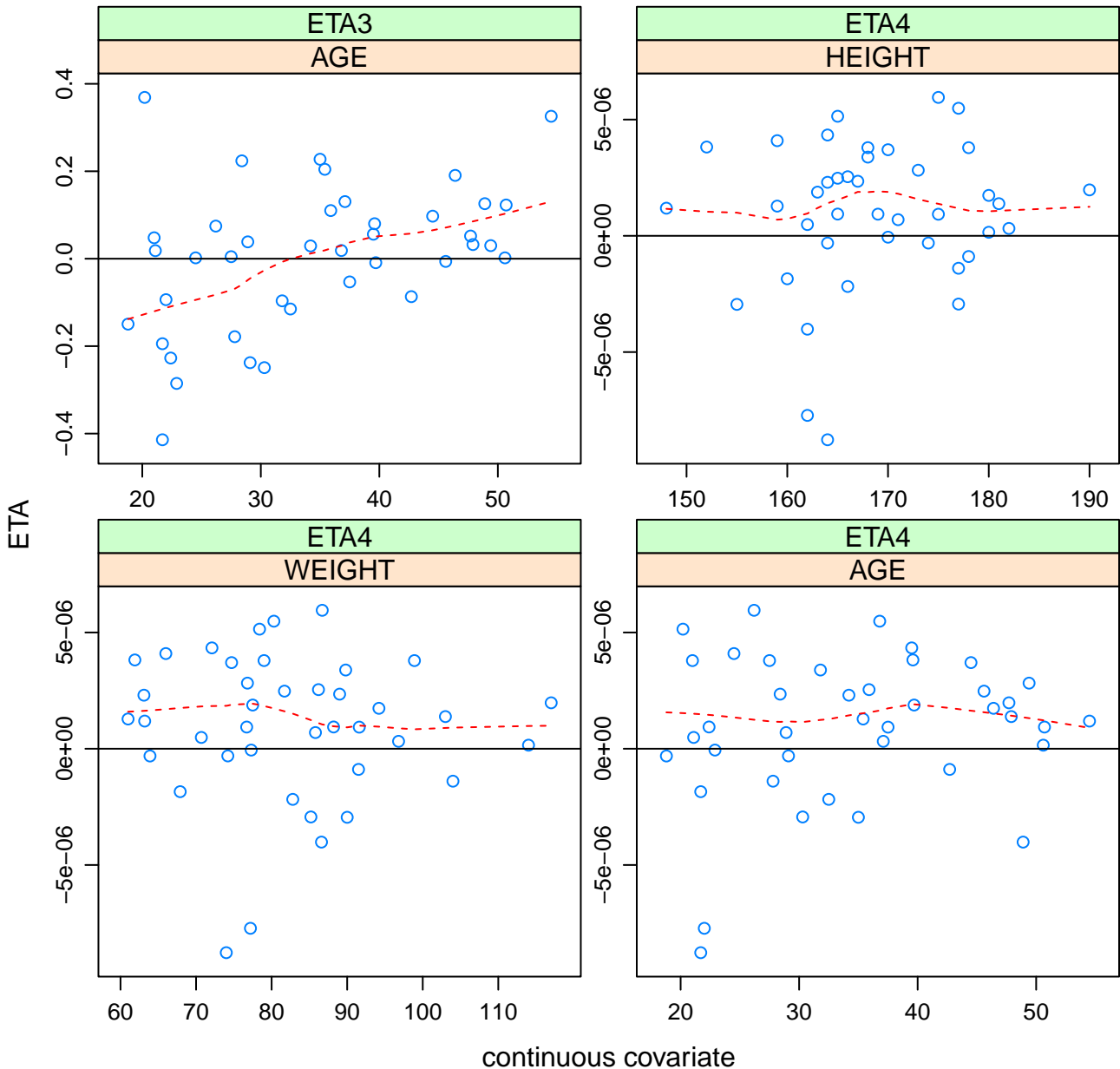


# Etas vs. Continuous Covariates

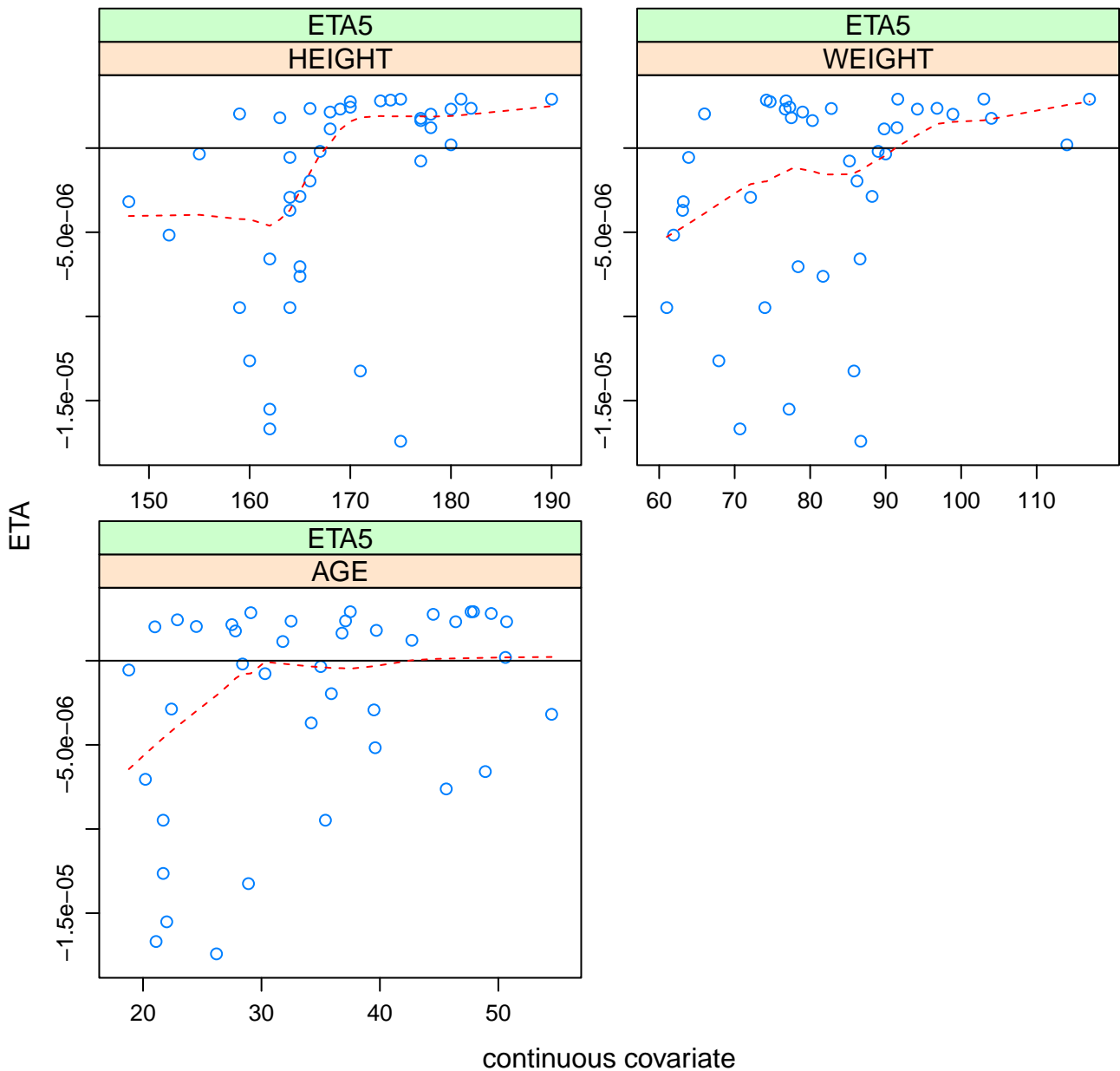




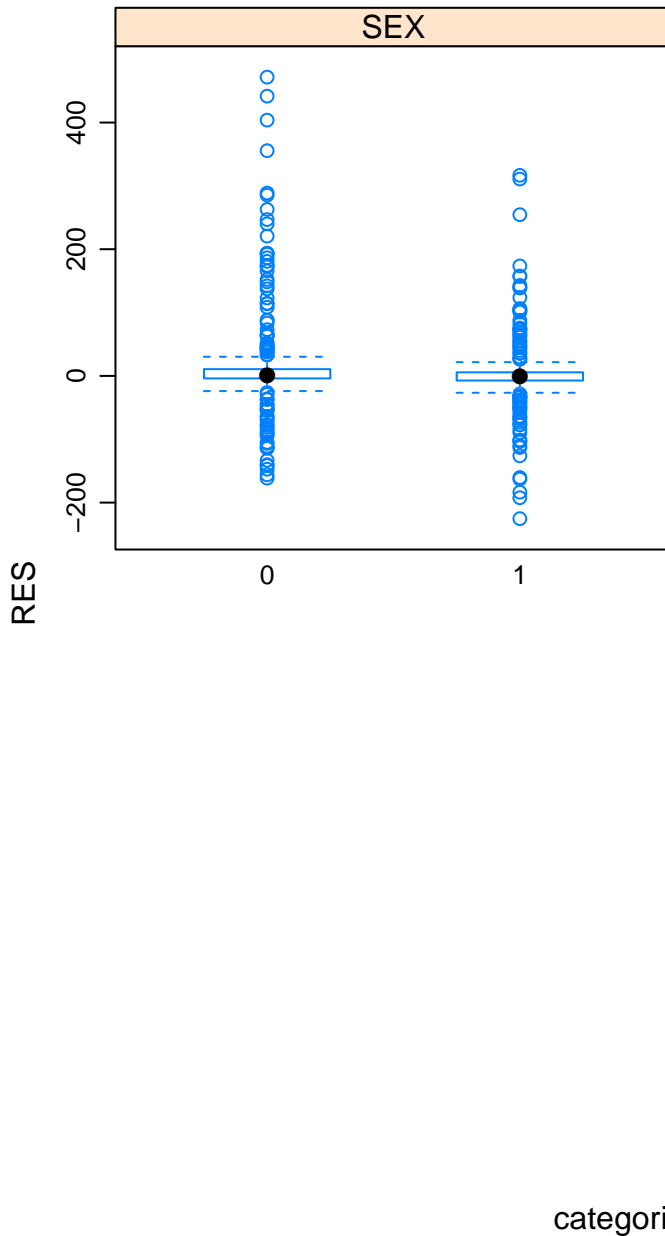
# Etas vs. Continuous Covariates



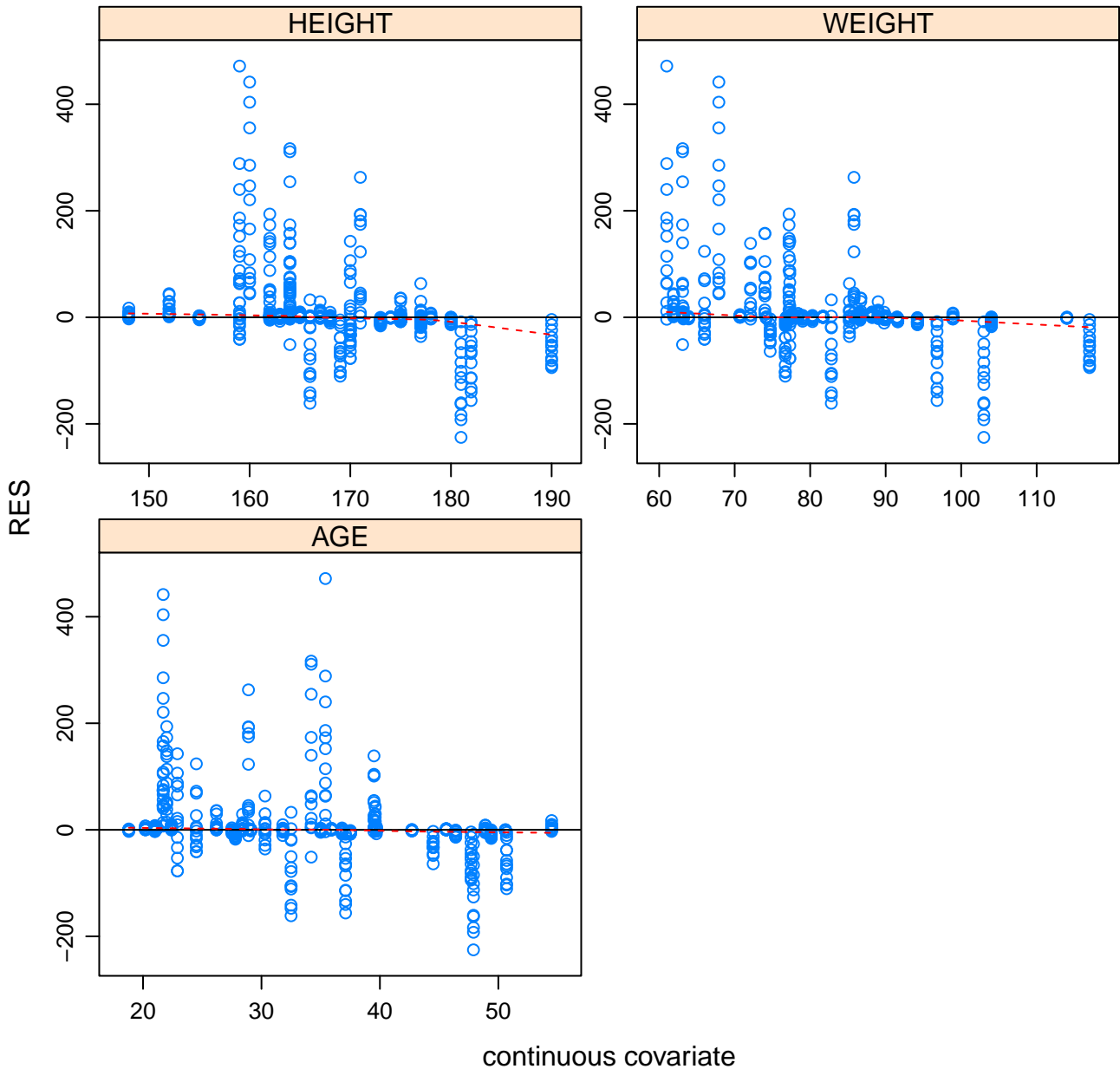
# Etas vs. Continuous Covariates



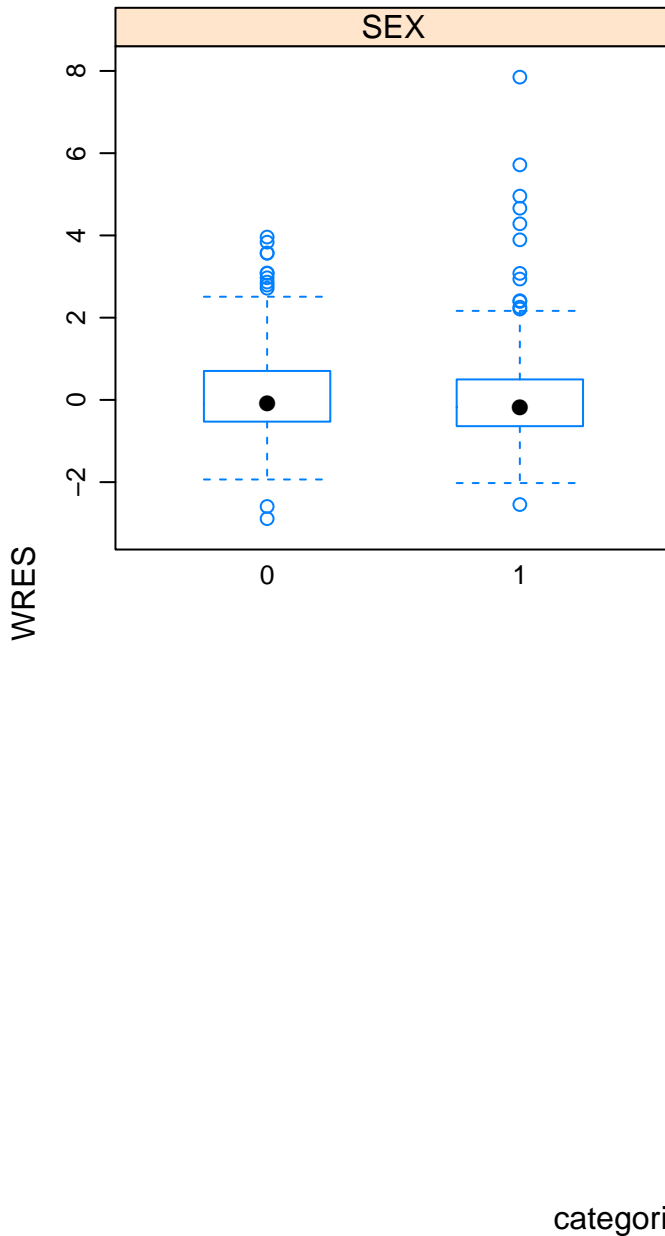
# RES vs. Categorical Covariates



# RES vs. Continuous Covariates



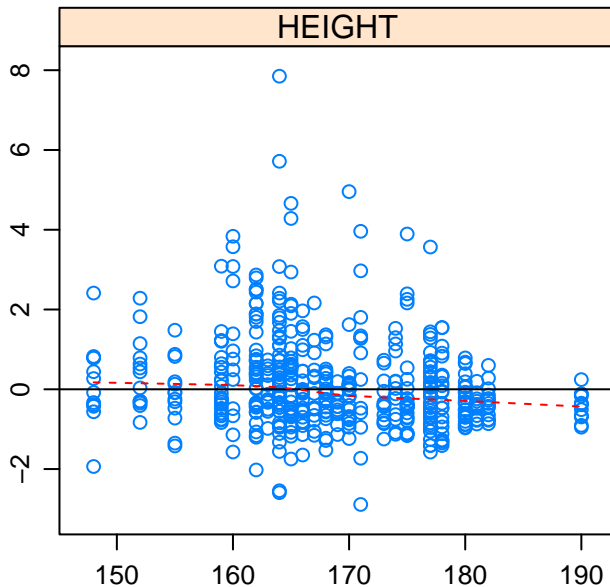
# WRES vs. Categorical Covariates



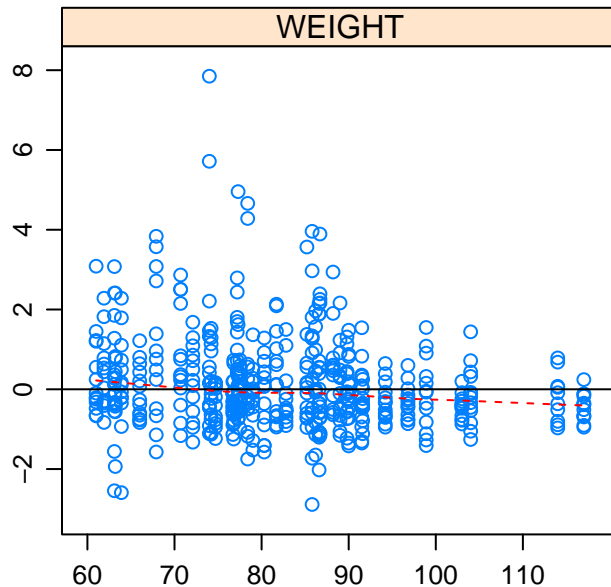
# WRES vs. Continuous Covariates

WRES

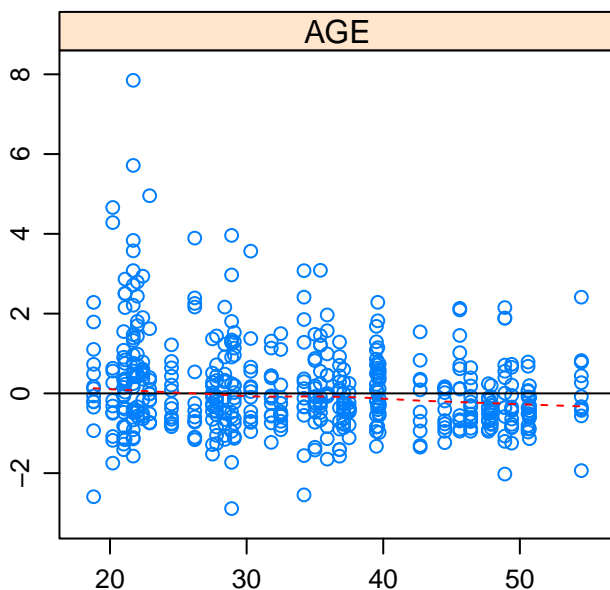
HEIGHT



WEIGHT

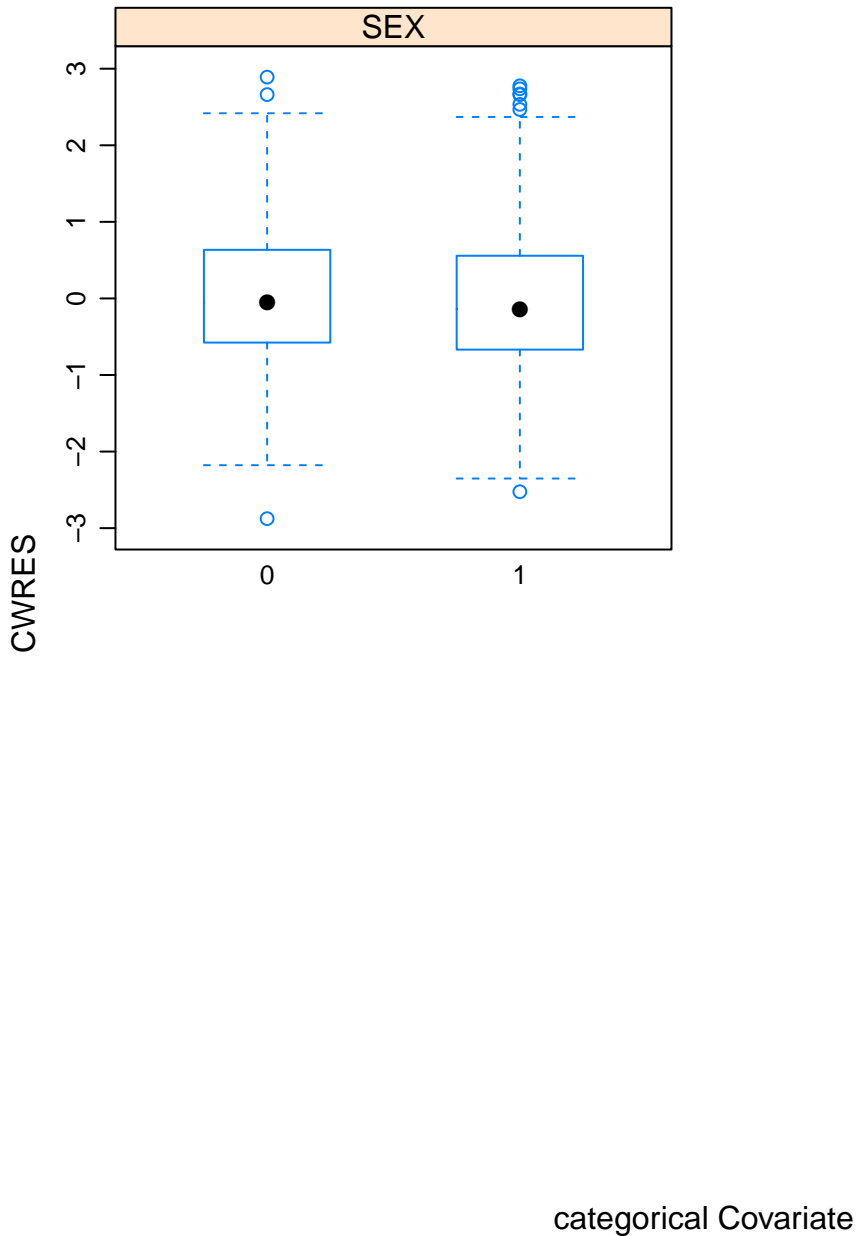


AGE

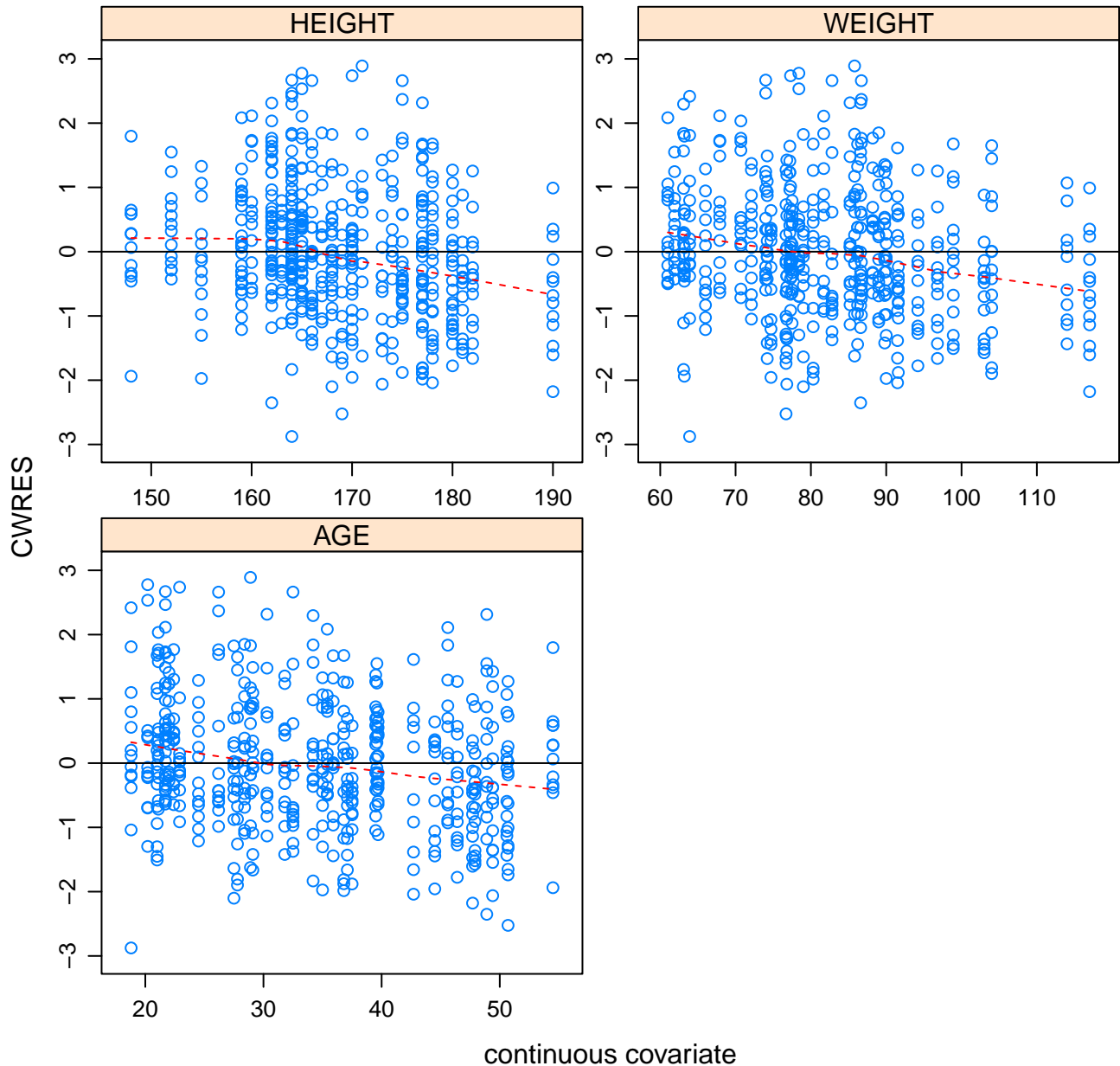


continuous covariate

# CWRES vs. Categorical Covariates

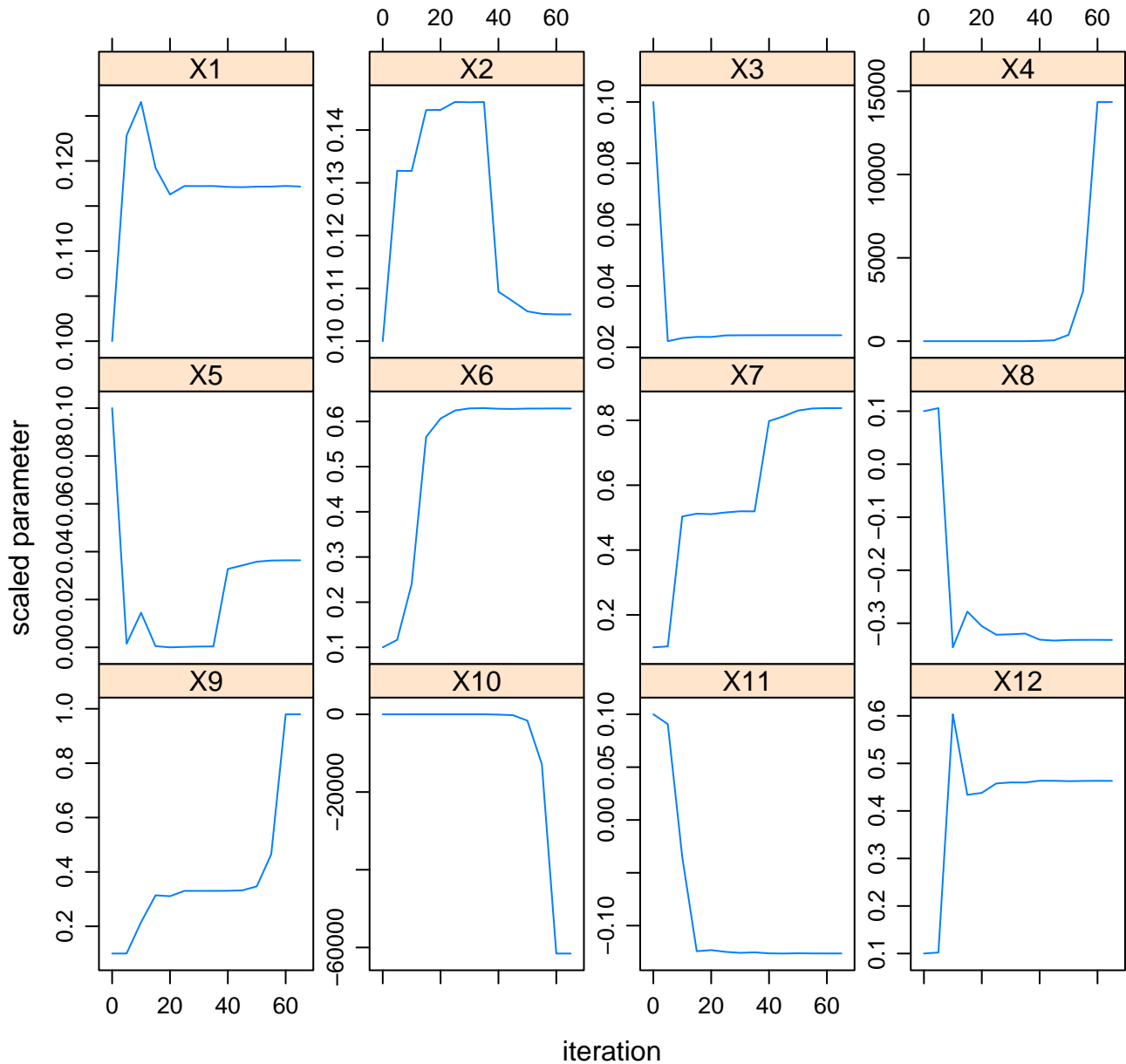


# CWRES vs. Continuous Covariates





# Model 1002 parameter search



# Model 1002 gradient search

