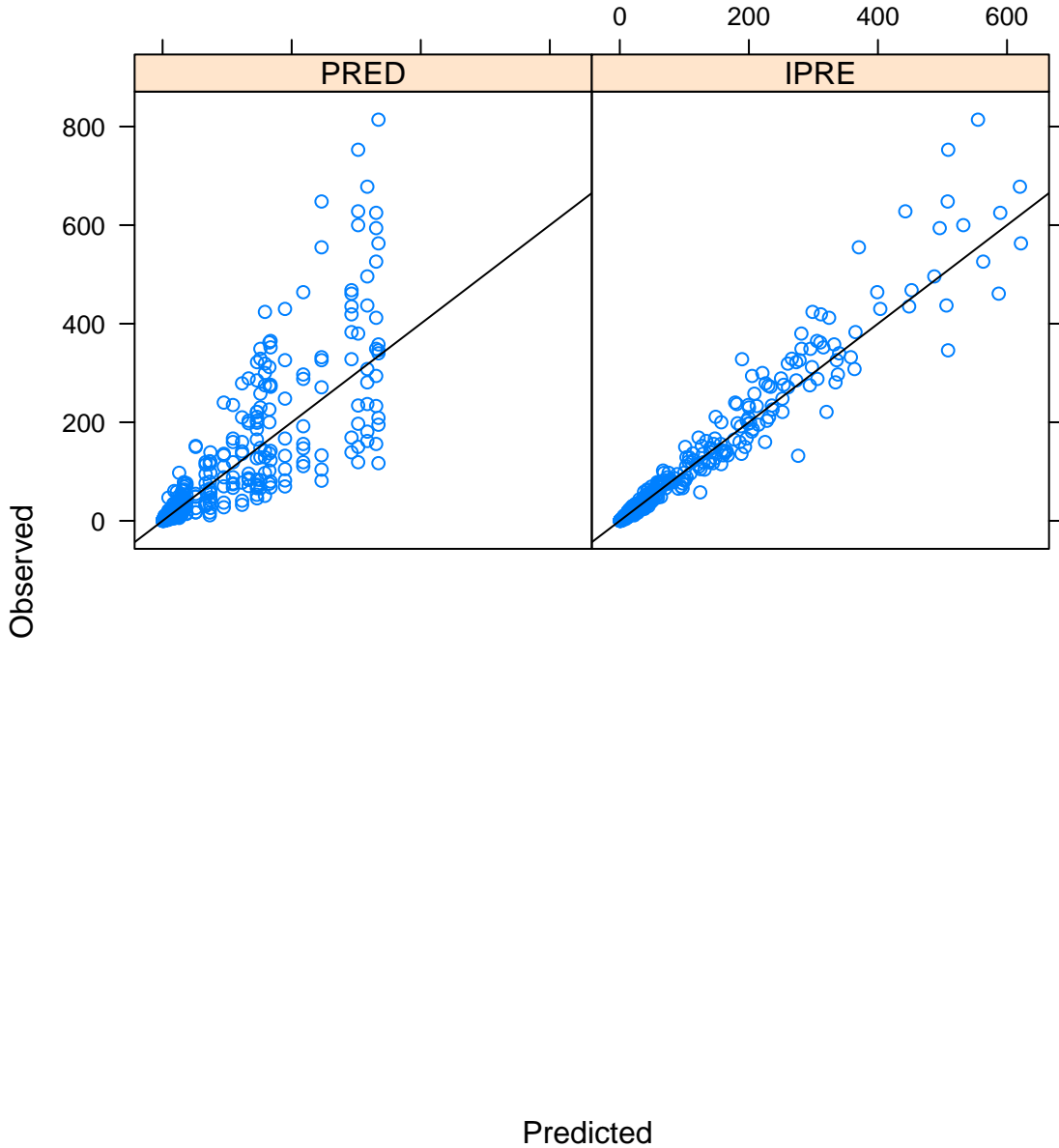


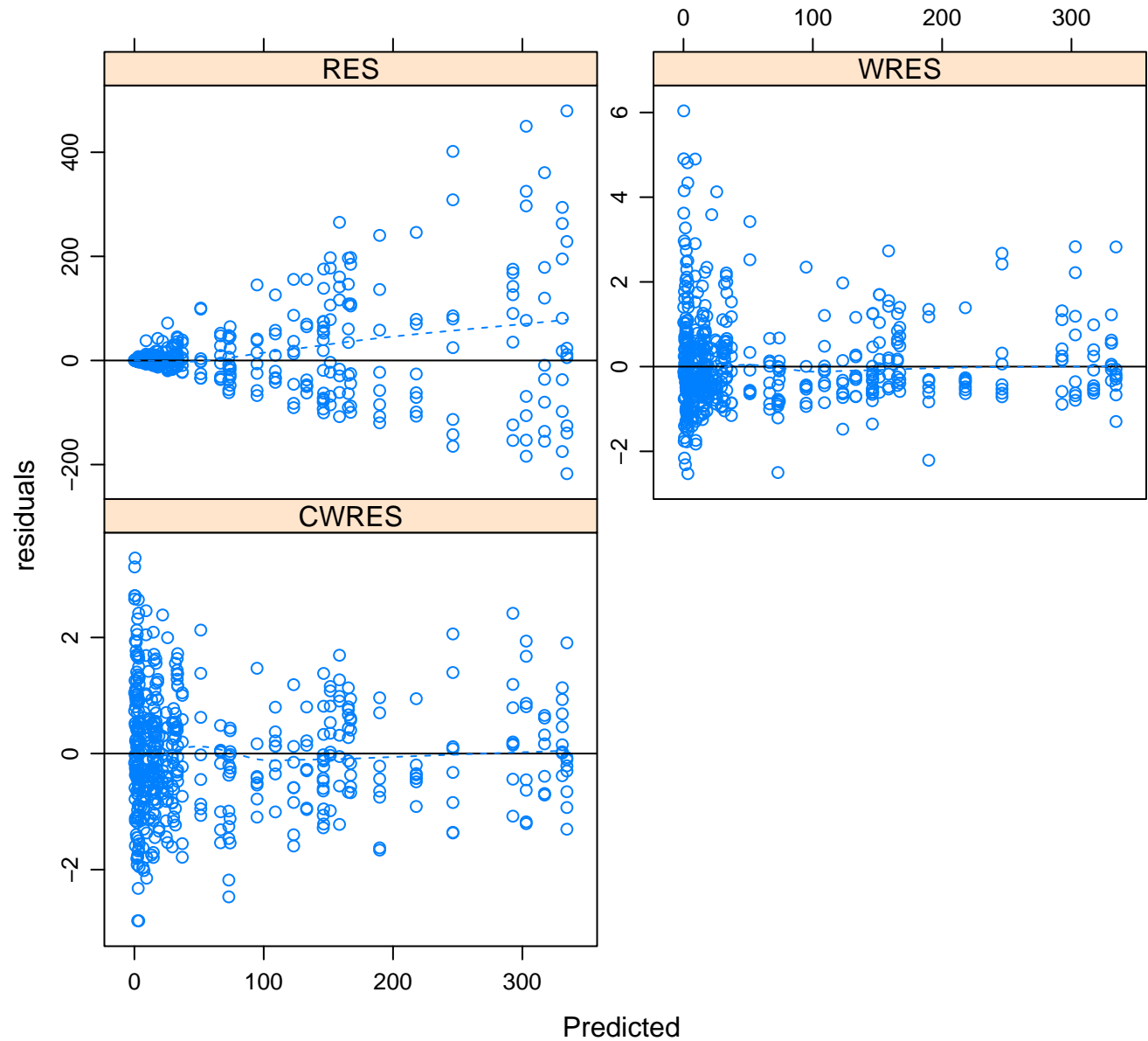
# Model 1004

## Observed vs. Predicted for all data



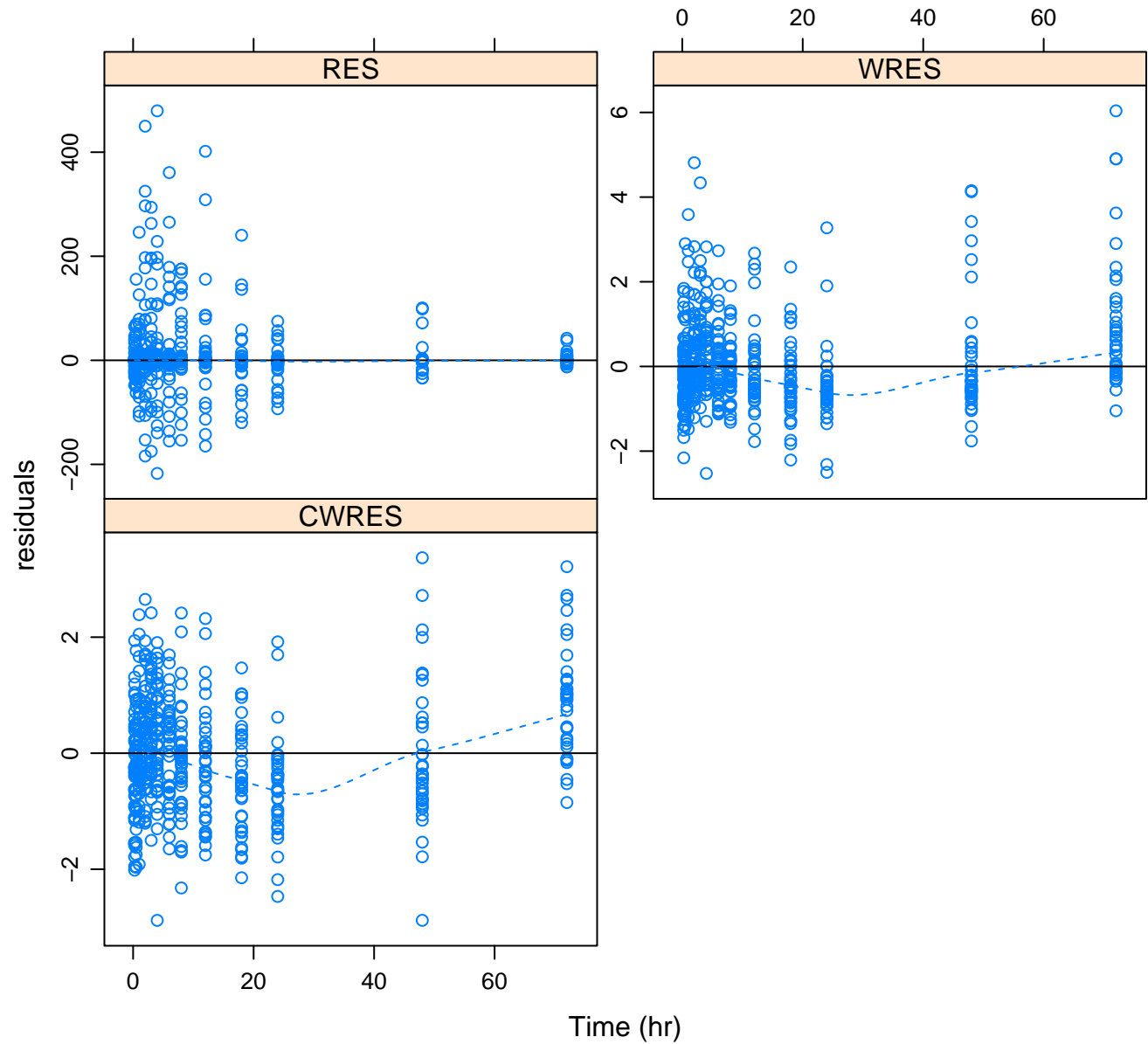
# Model 1004

## Residuals vs. Predicted for all data



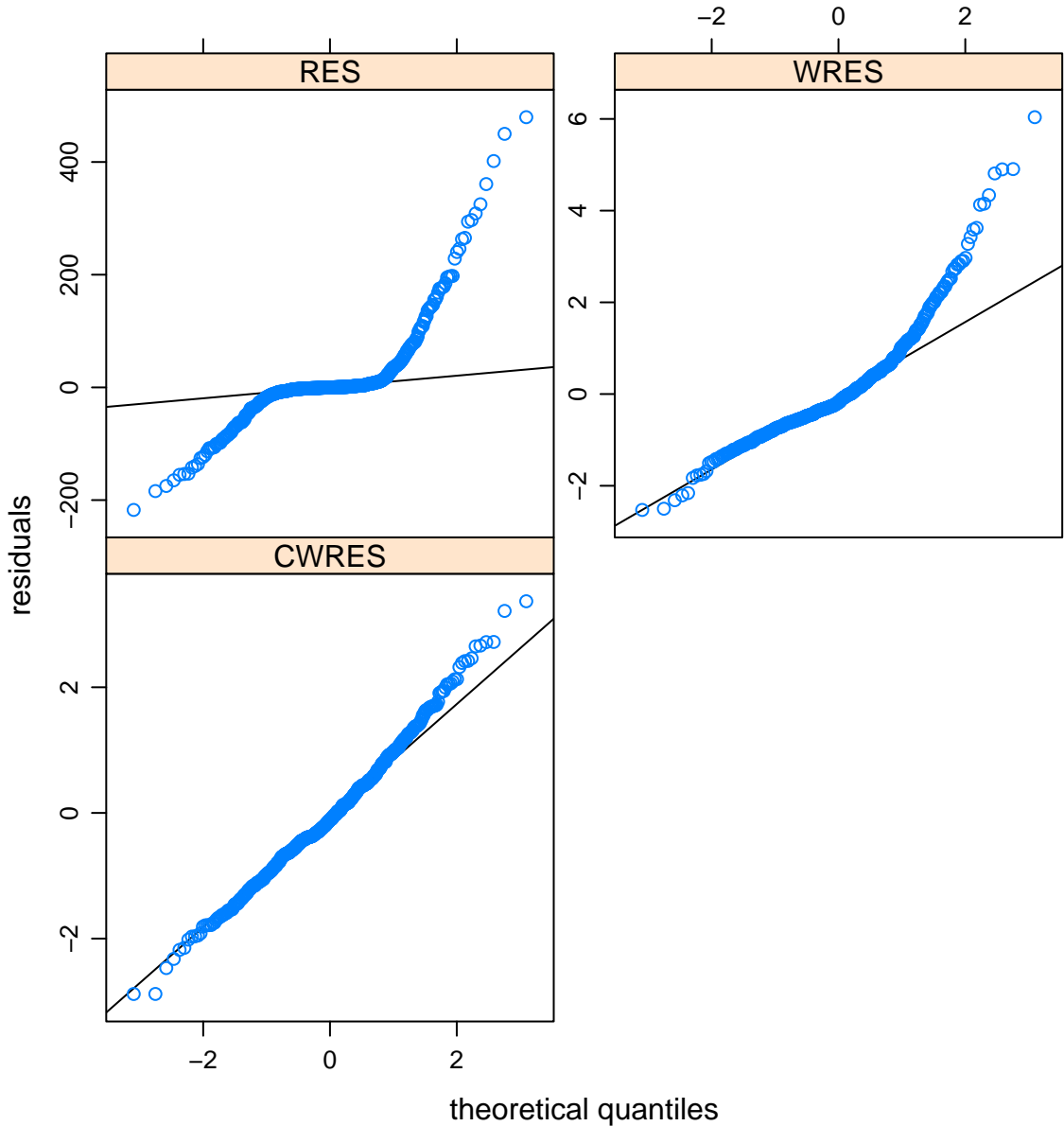
# Model 1004

## Residuals vs. Time for all data



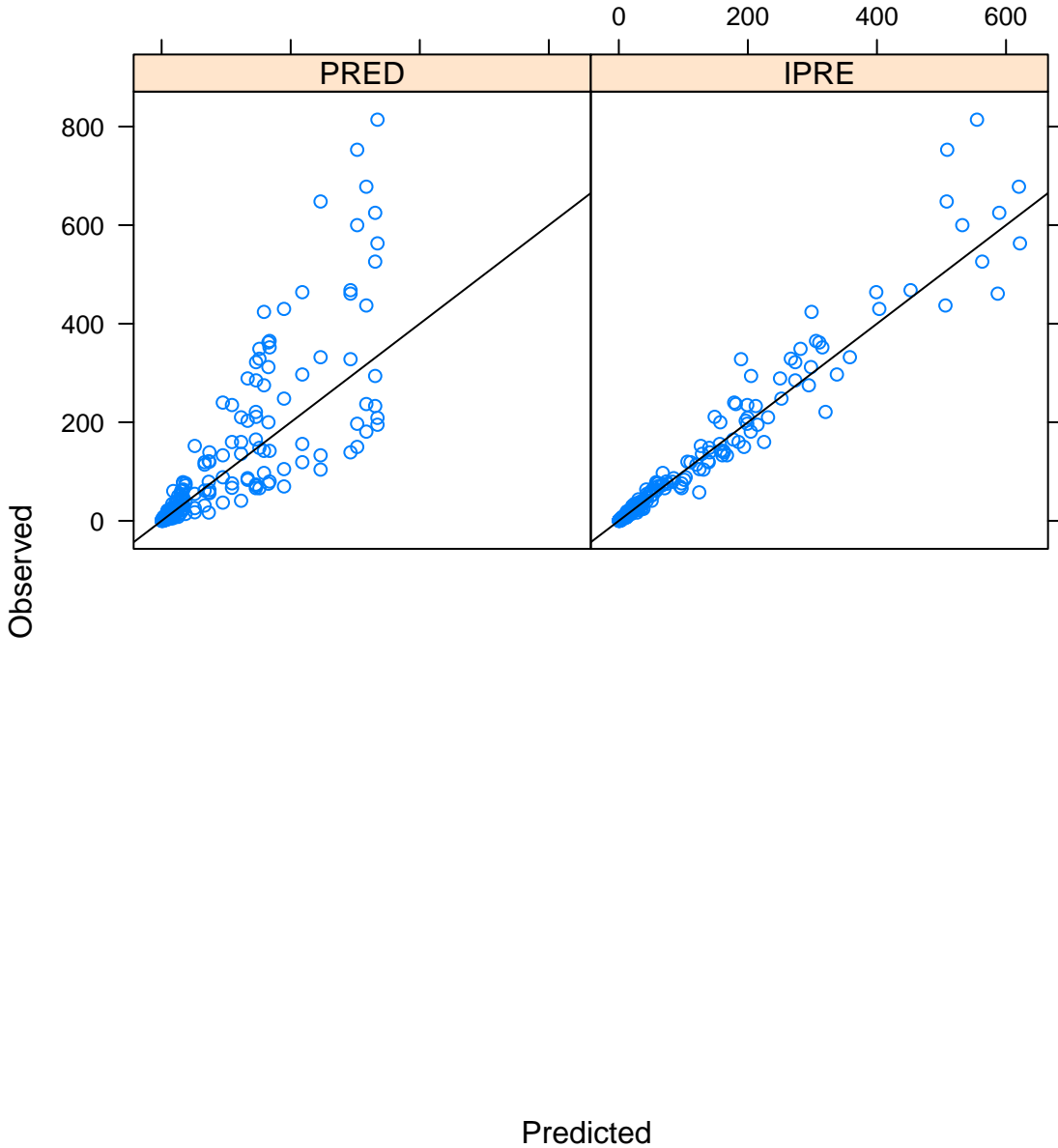
# Model 1004

## Normal Q-Q Plot Residuals for all data



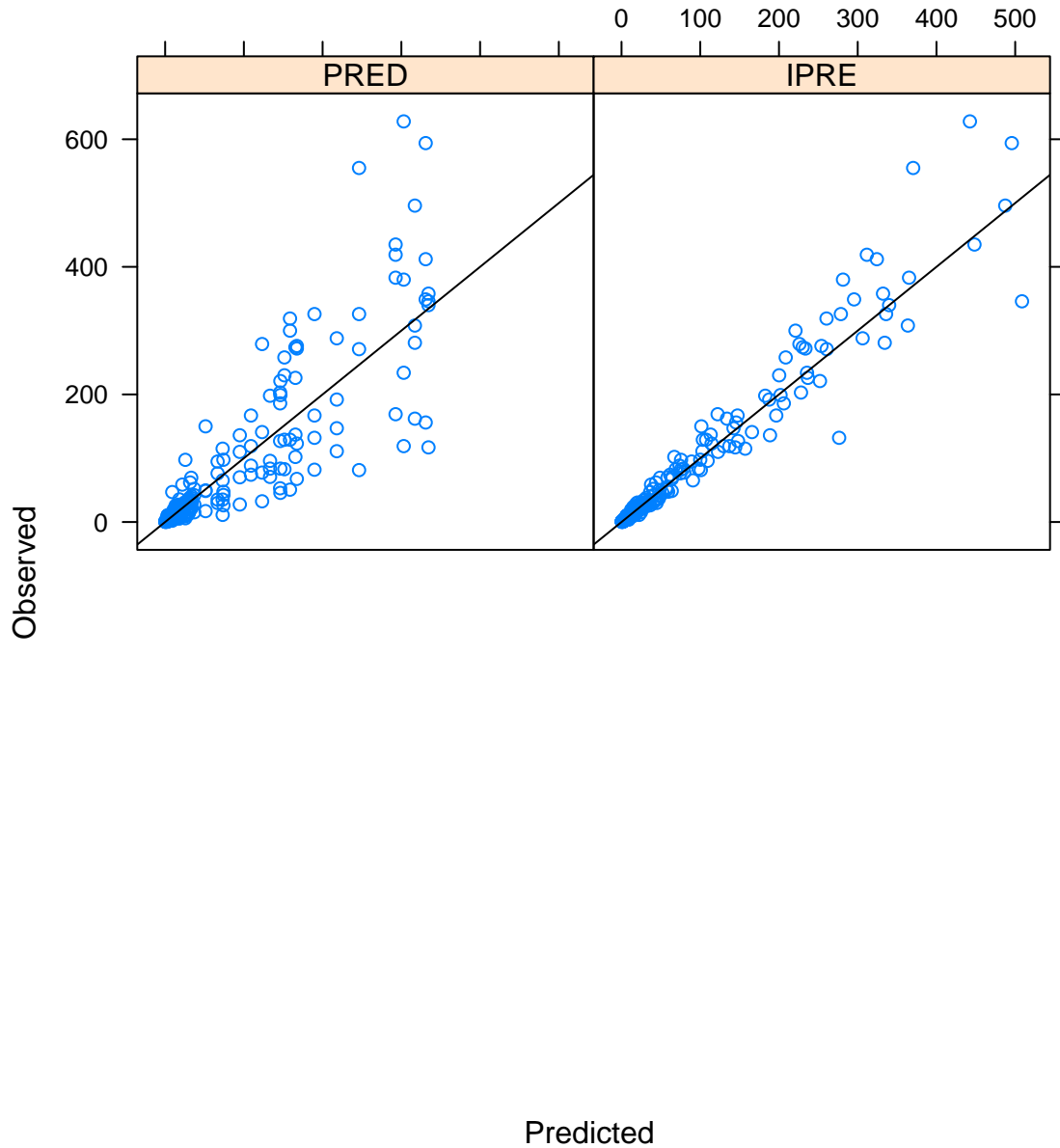
# Model 1004

## Observed vs. Predicted for female data



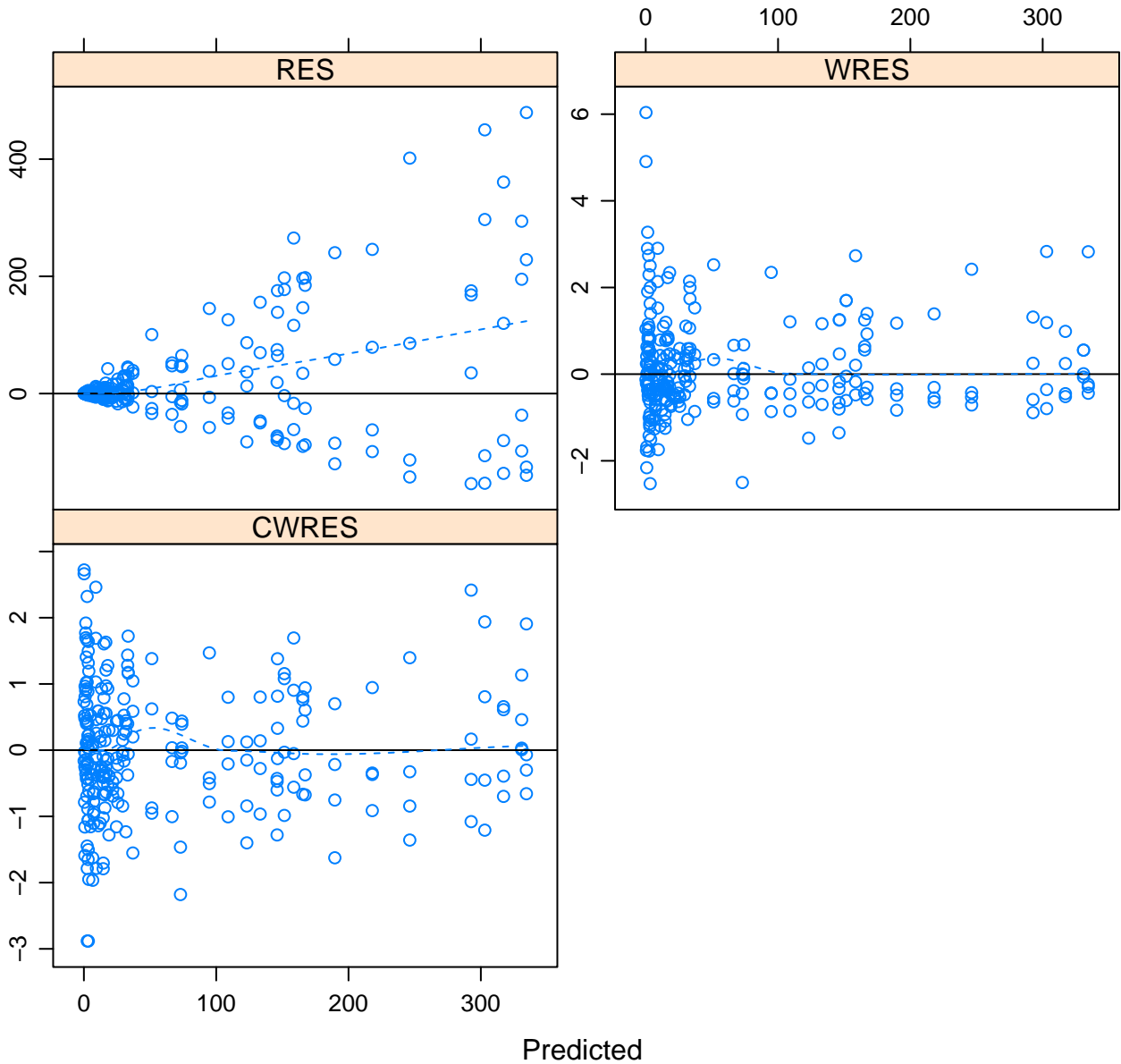
# Model 1004

## Observed vs. Predicted for male data



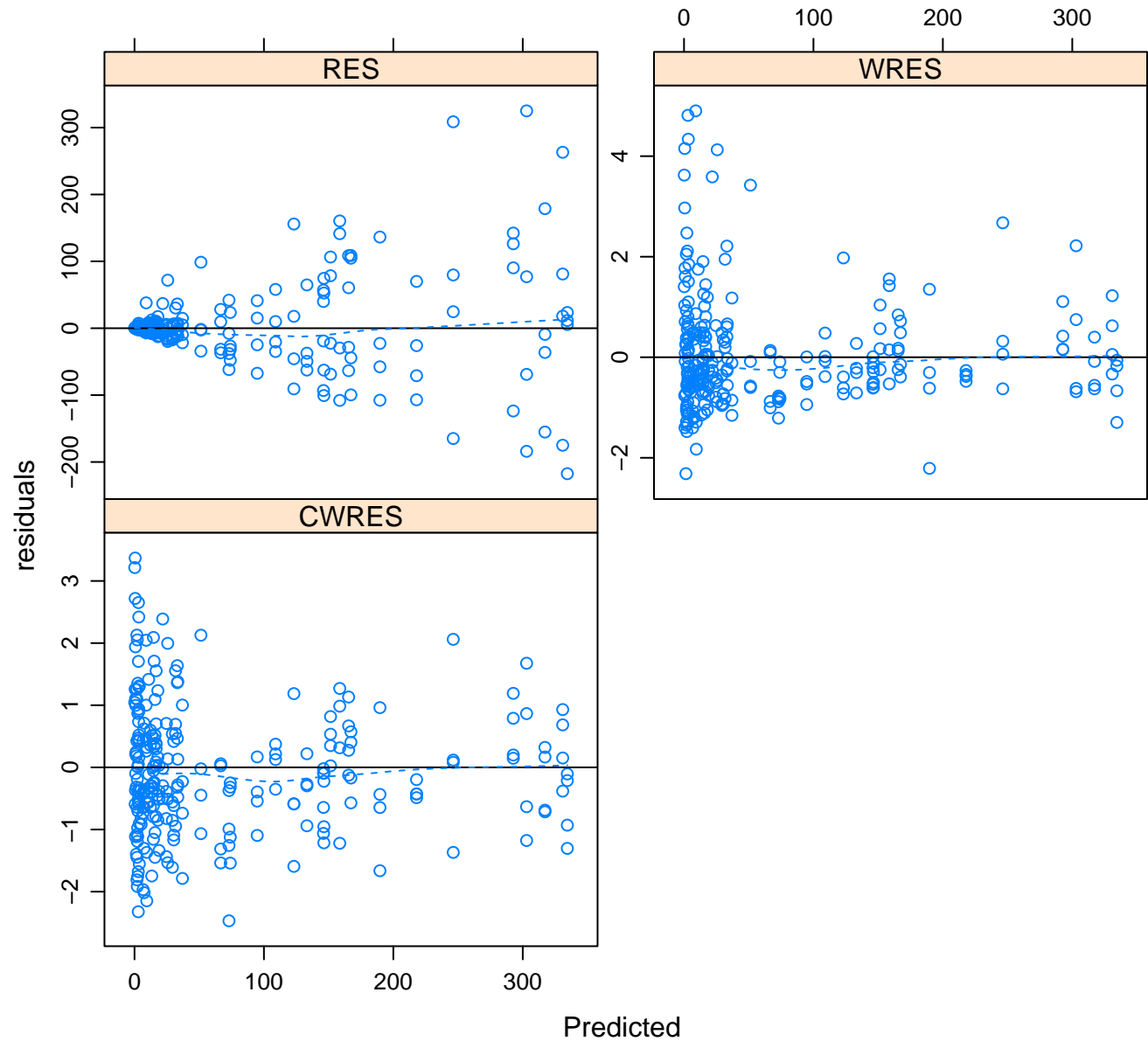
# Model 1004

## Residuals vs. Predicted for female data



# Model 1004

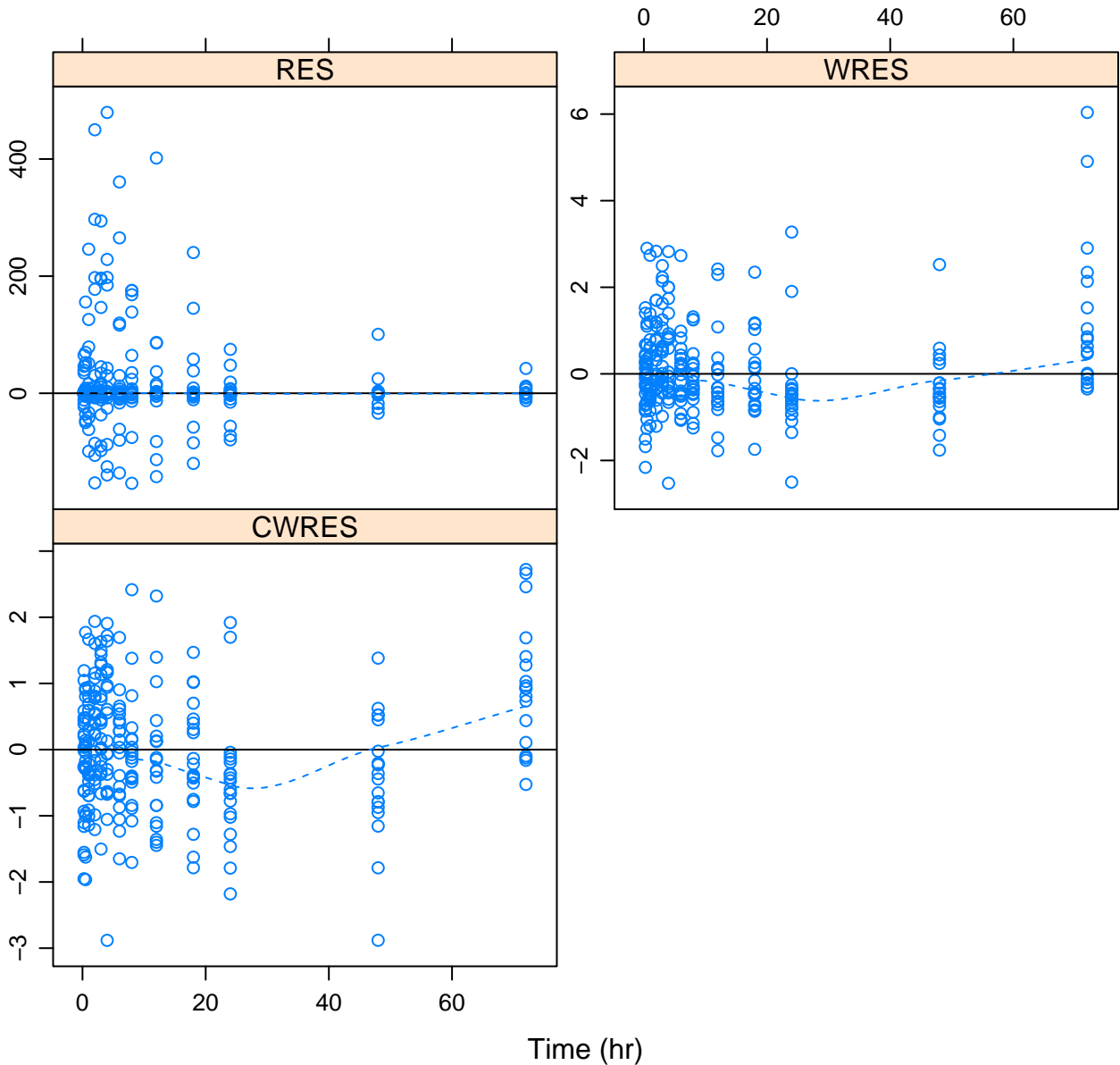
## Residuals vs. Predicted for male data





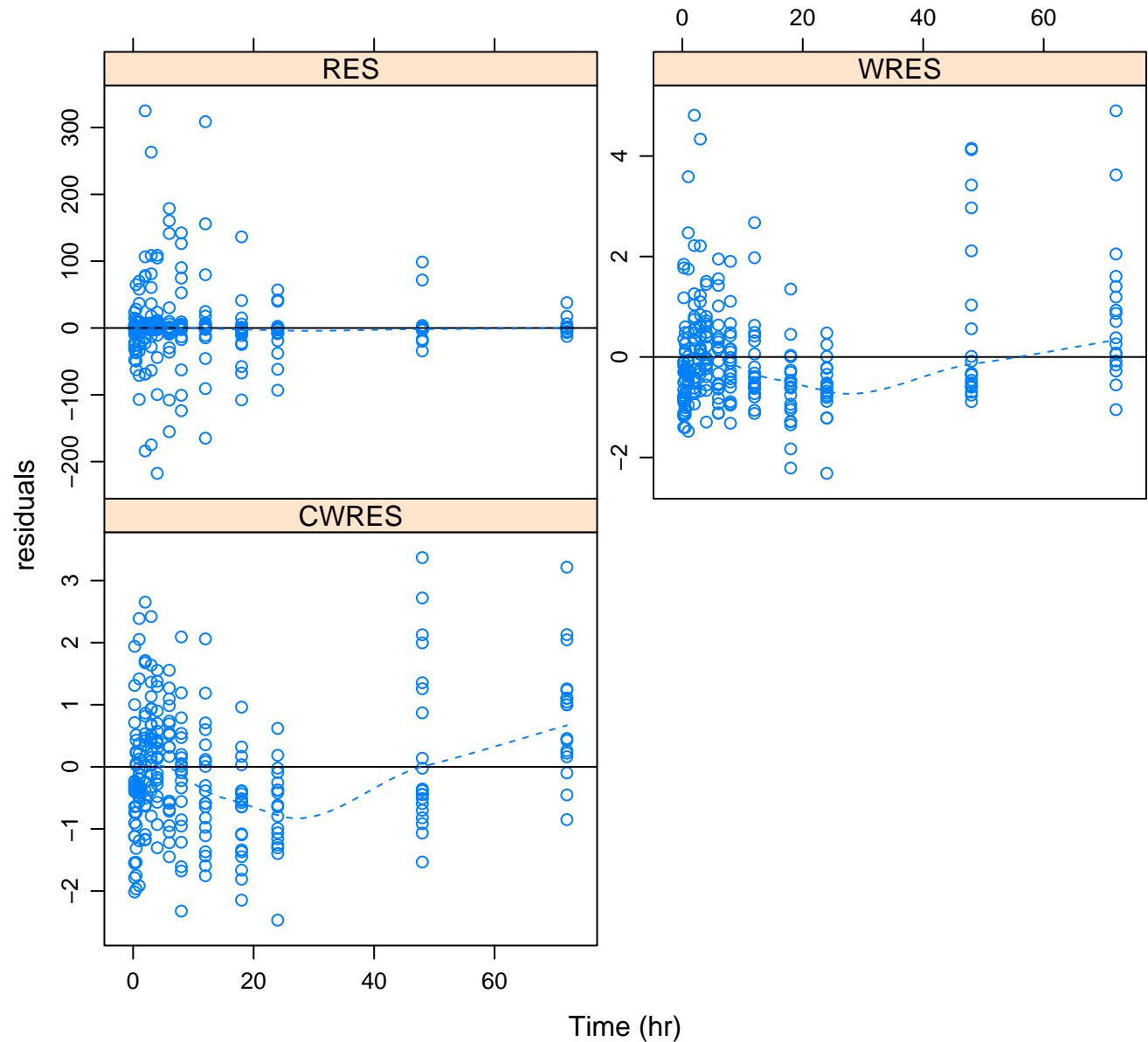
# Model 1004

## Residuals vs. Time for female data



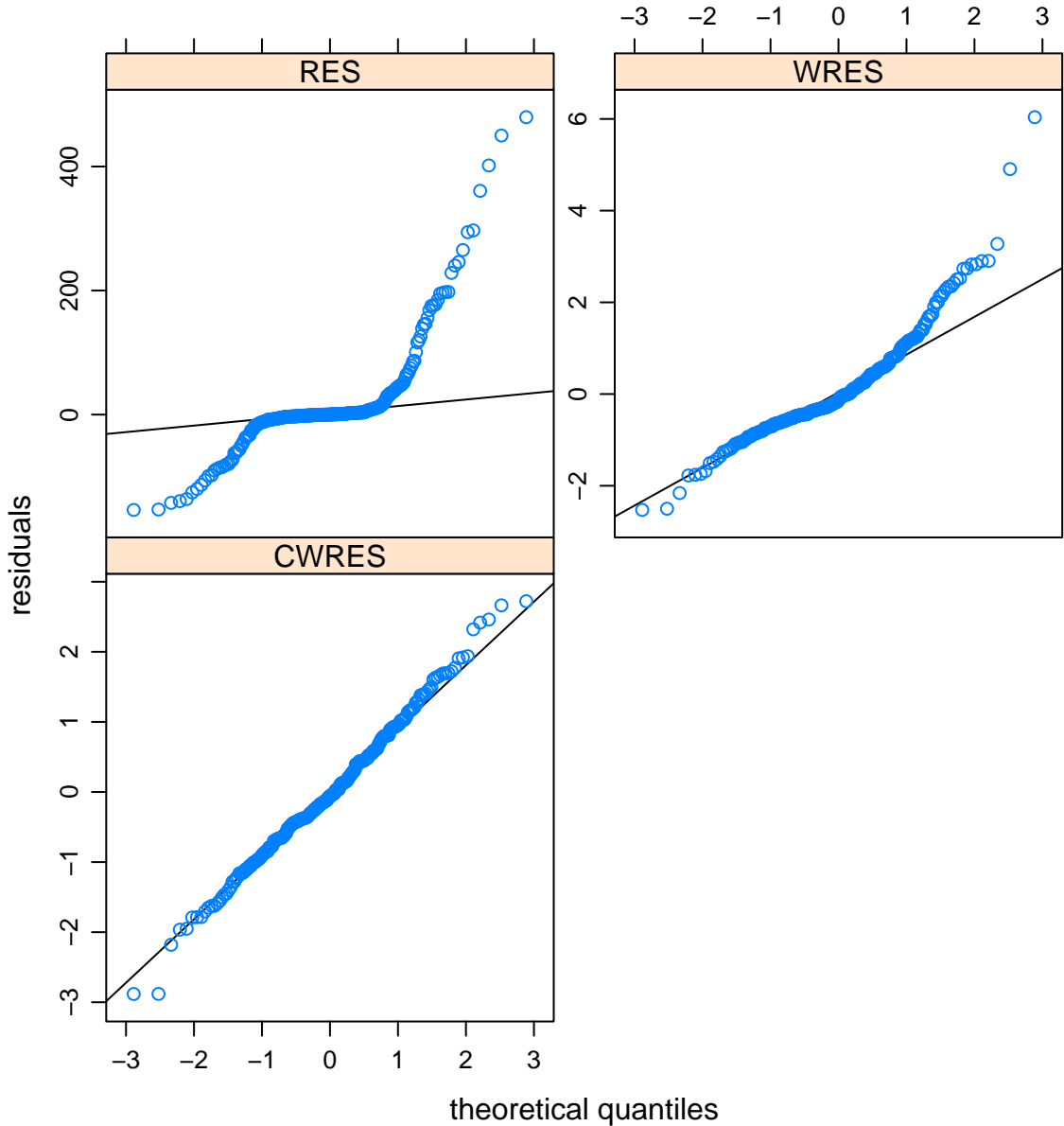
# Model 1004

## Residuals vs. Time for male data



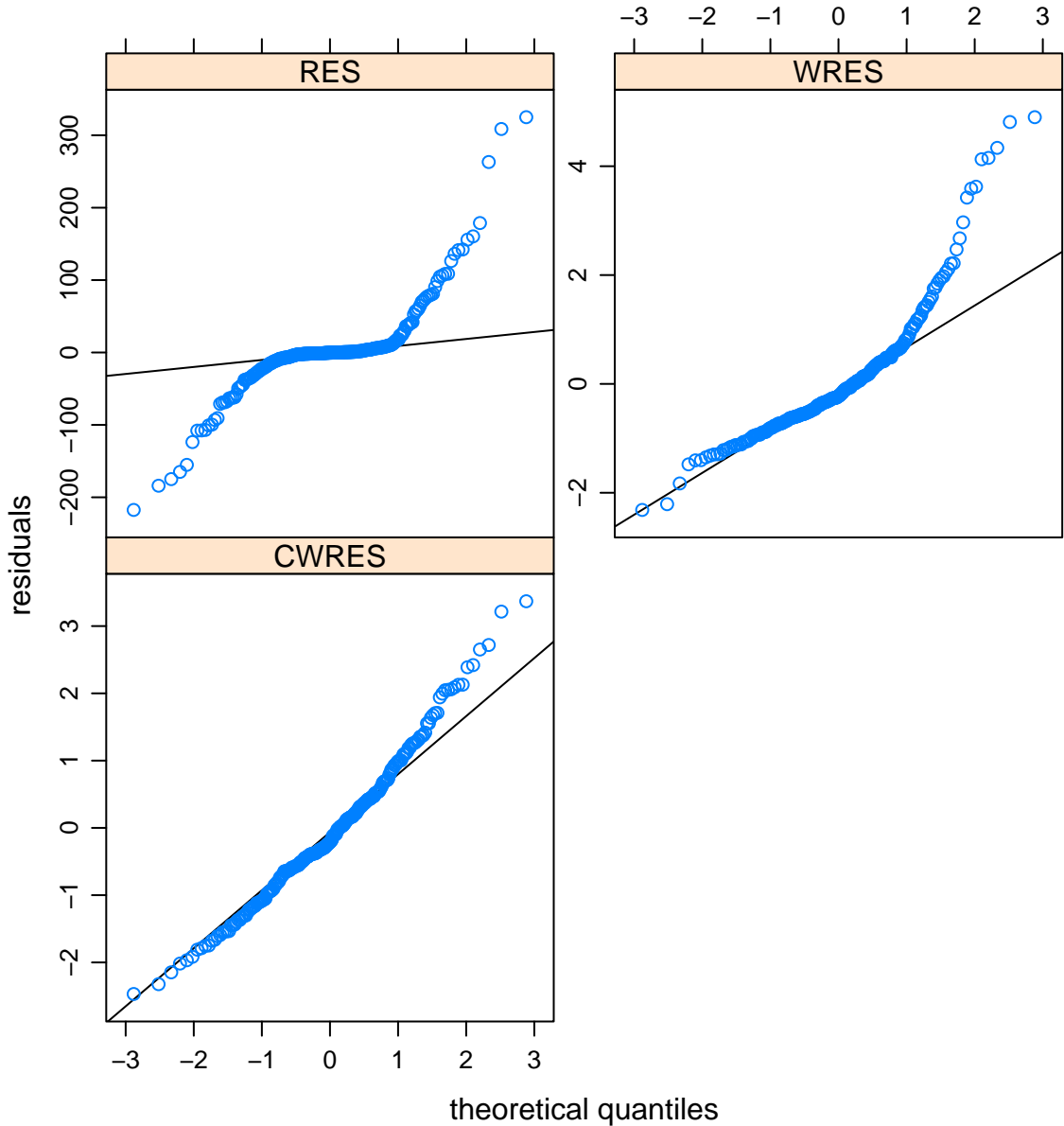
# Model 1004

## Normal Q-Q Plot Residuals for female data

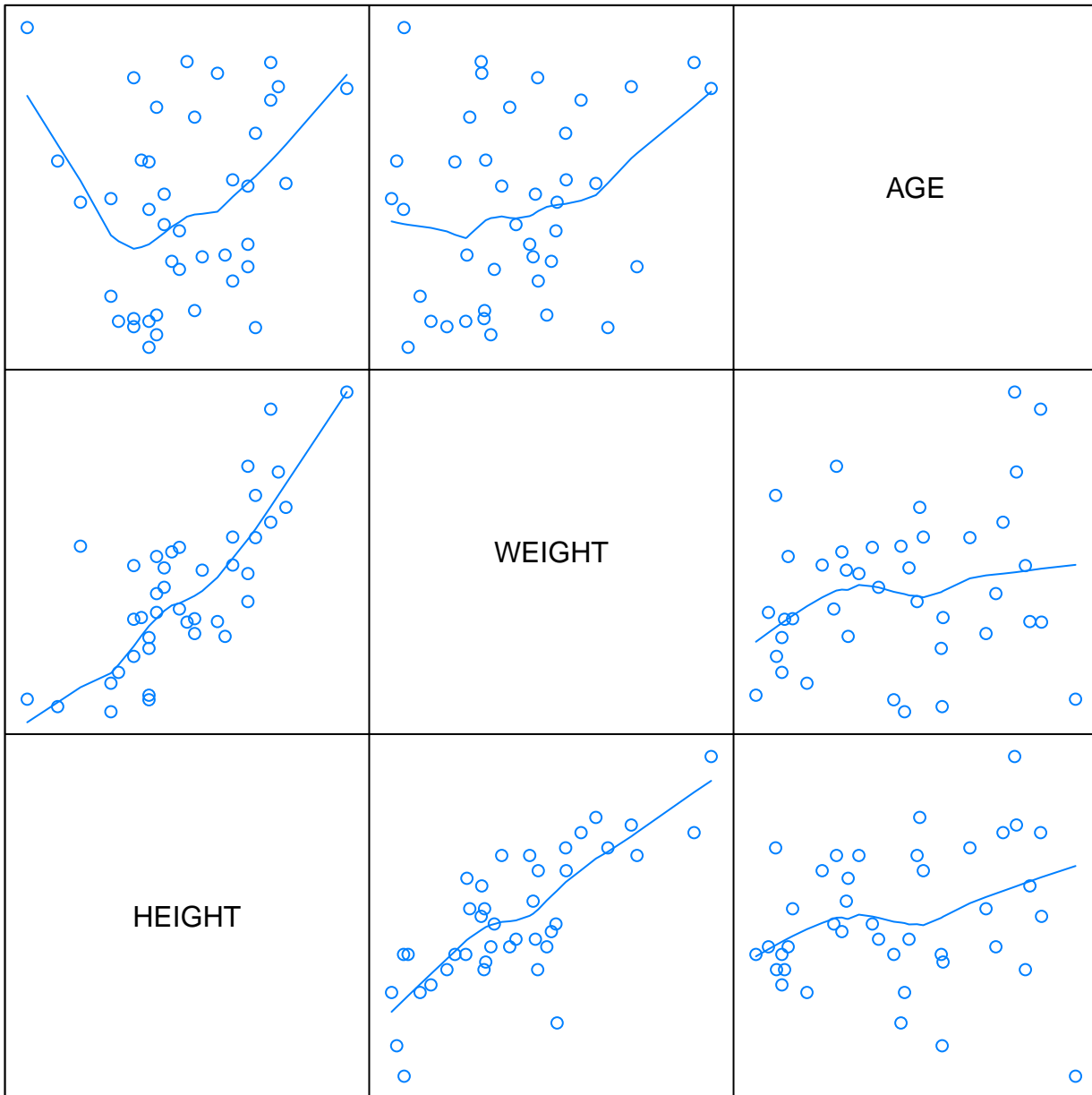


# Model 1004

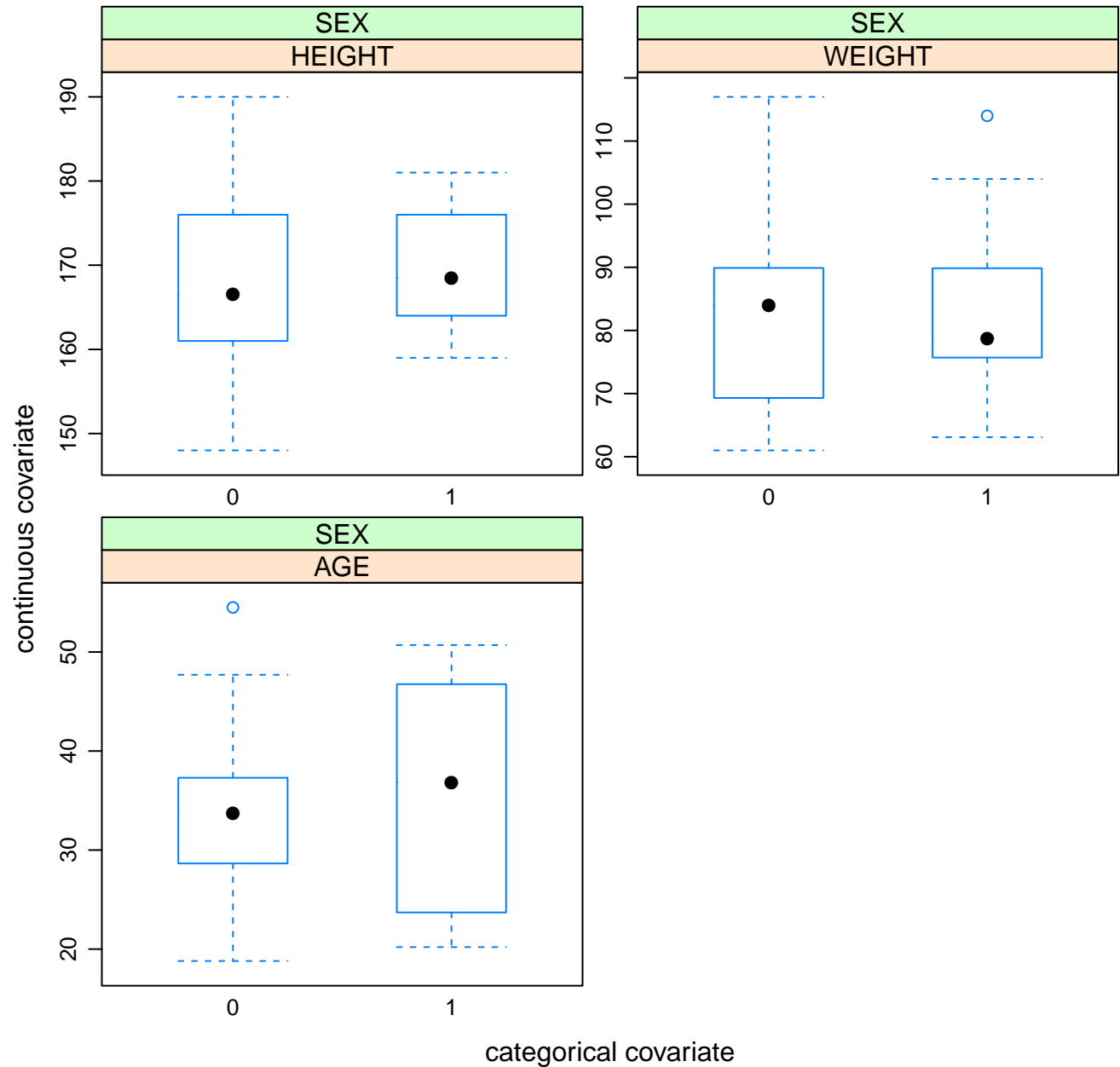
## Normal Q-Q Plot Residuals for male data



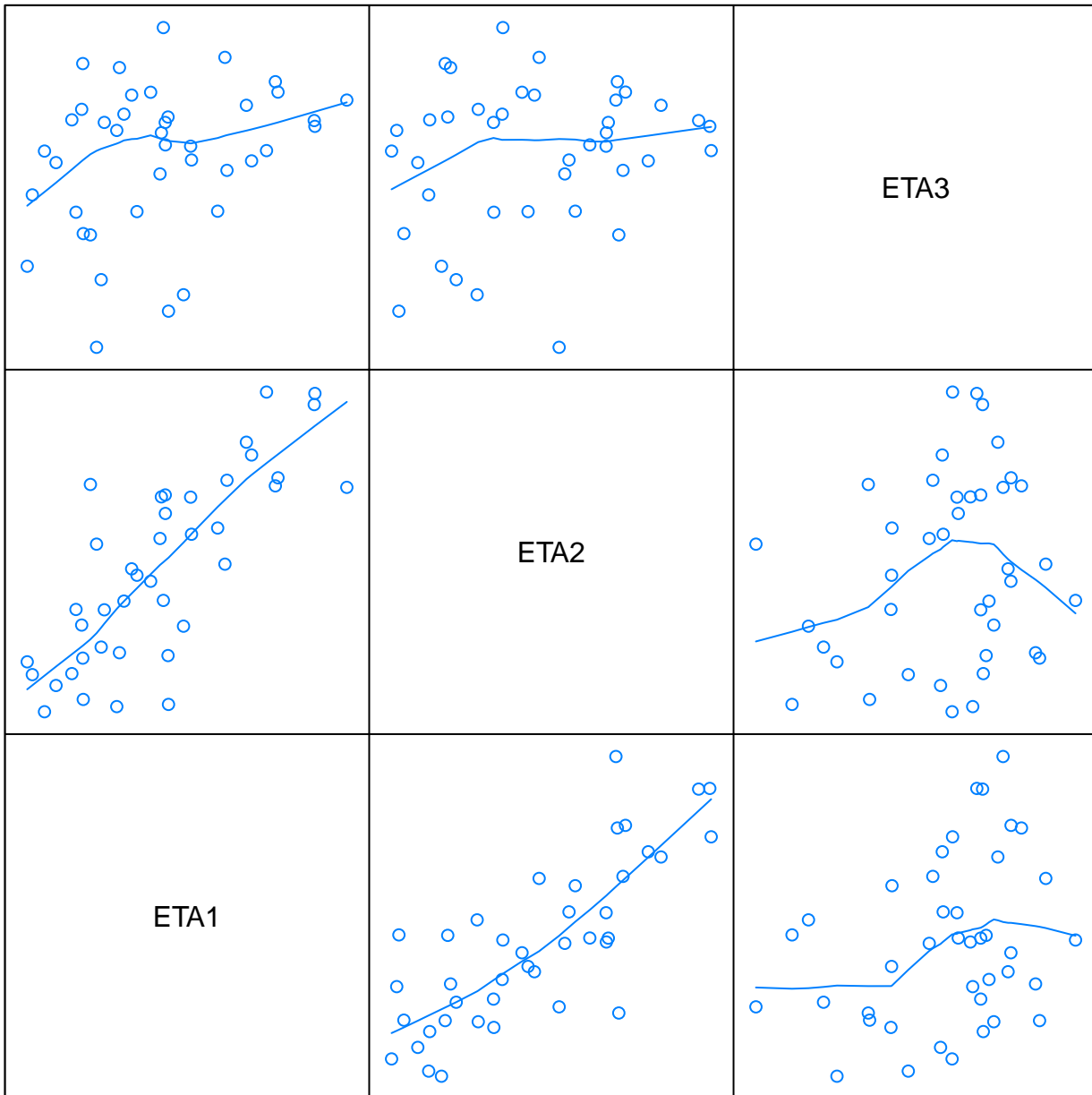
# Covariate Scatterplots



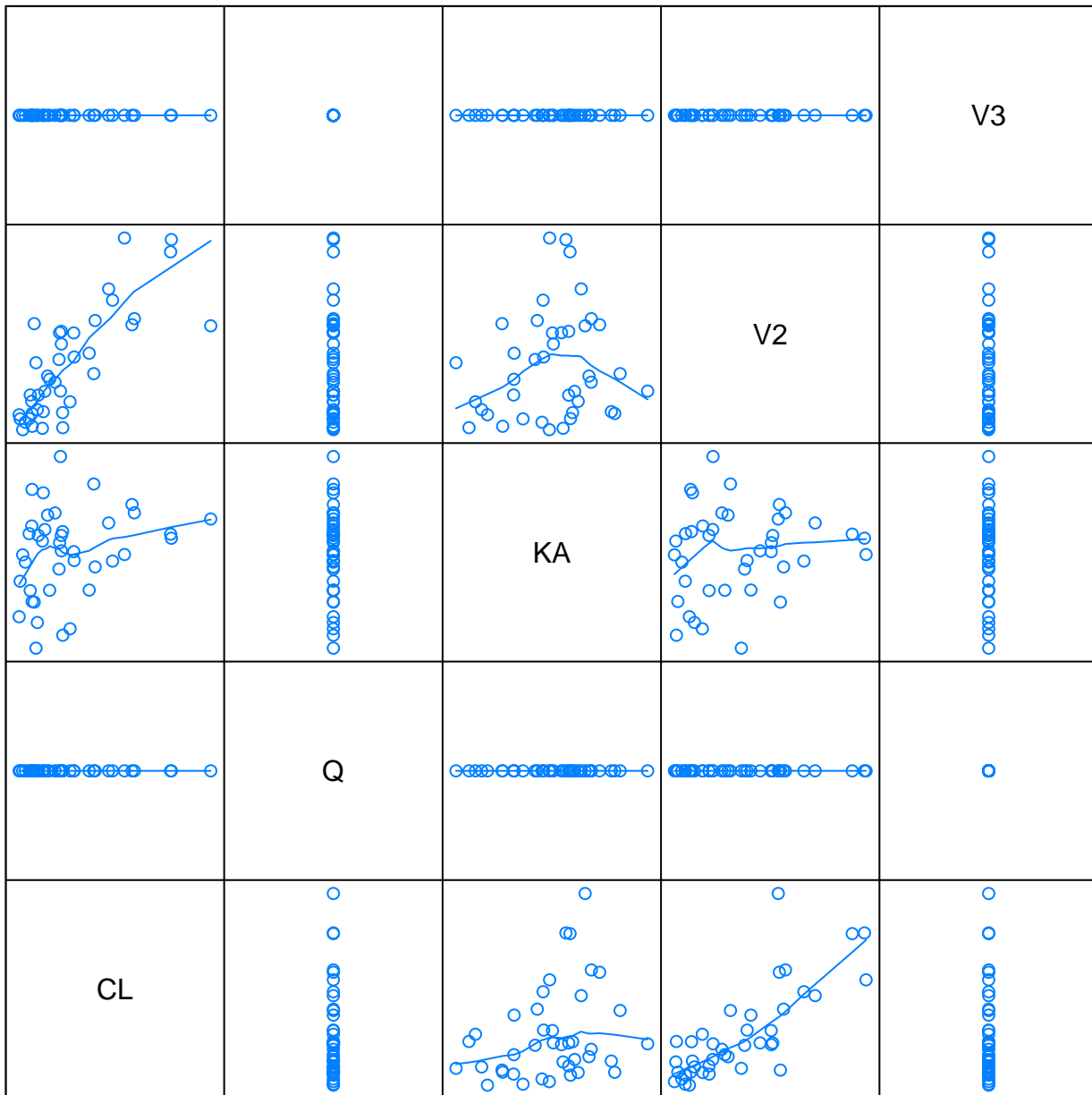
# Continuous Covariates vs. Categorical Covariates



# ETA Scatterplots

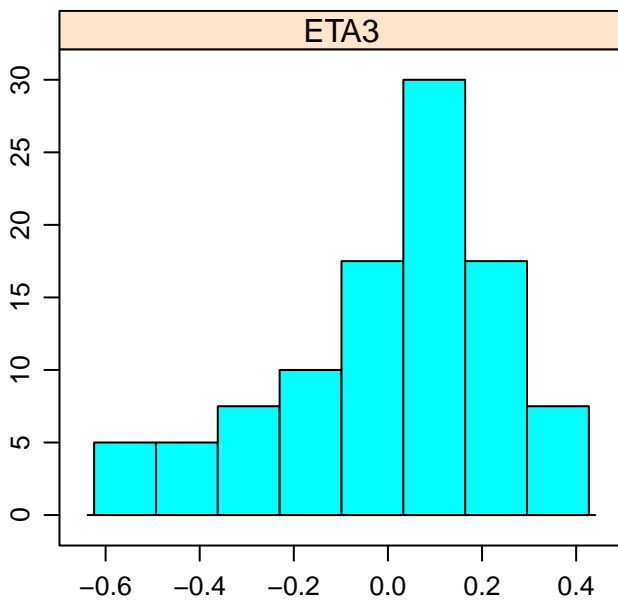
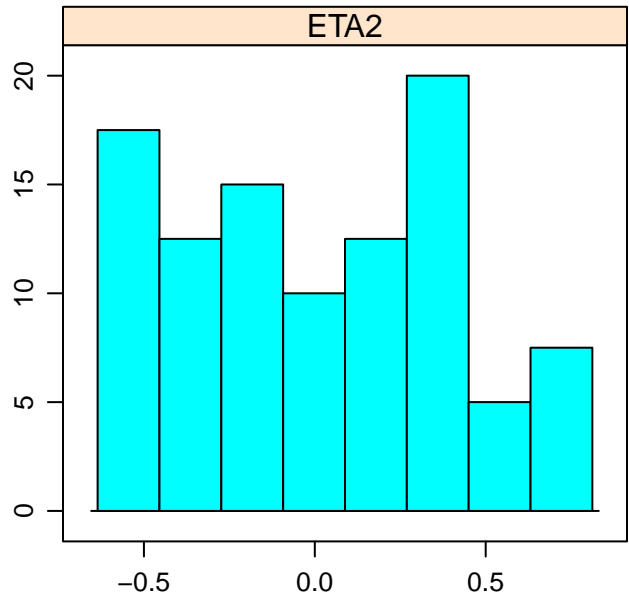
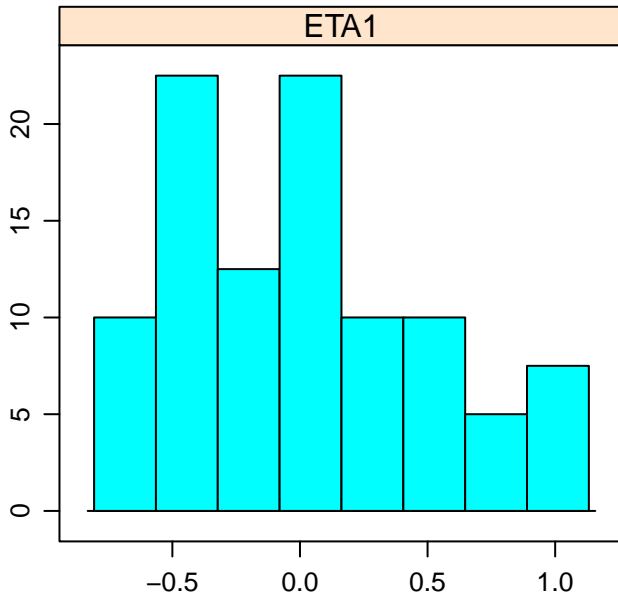


# Parameter Scatterplots



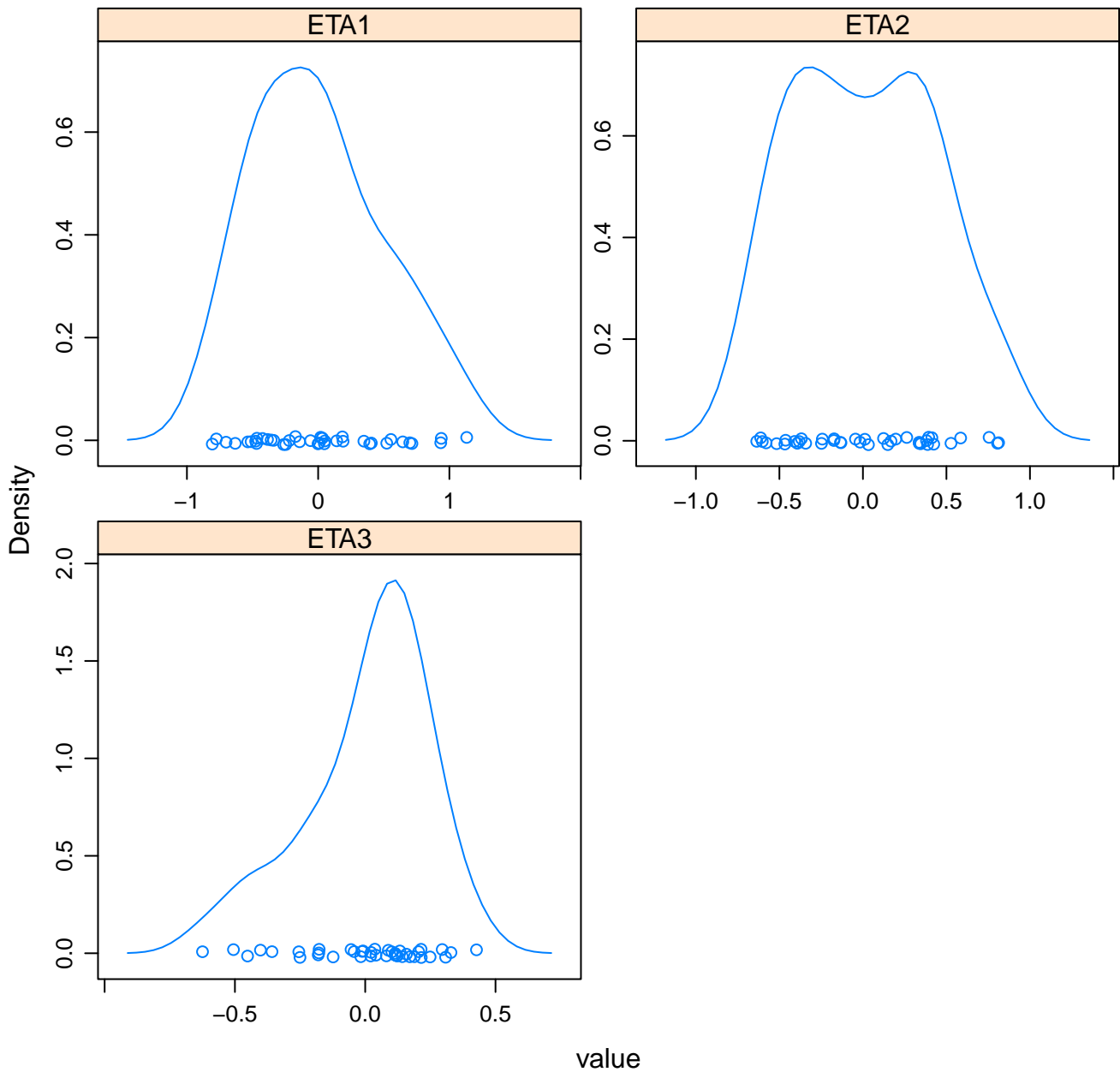


# Histograms of Etas

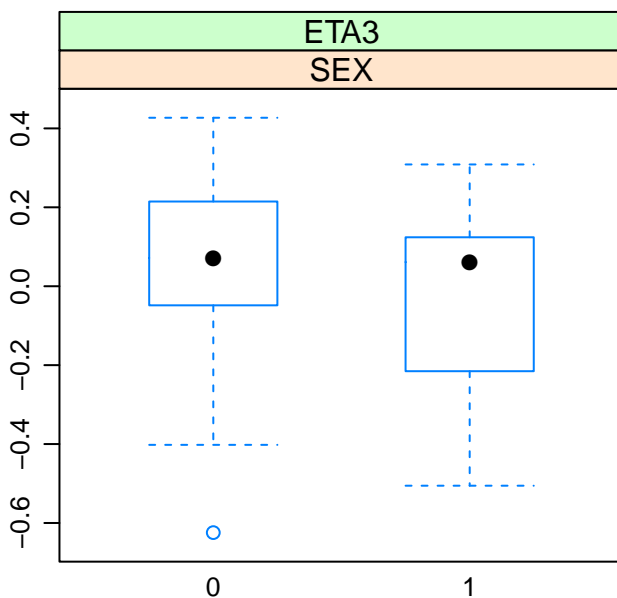
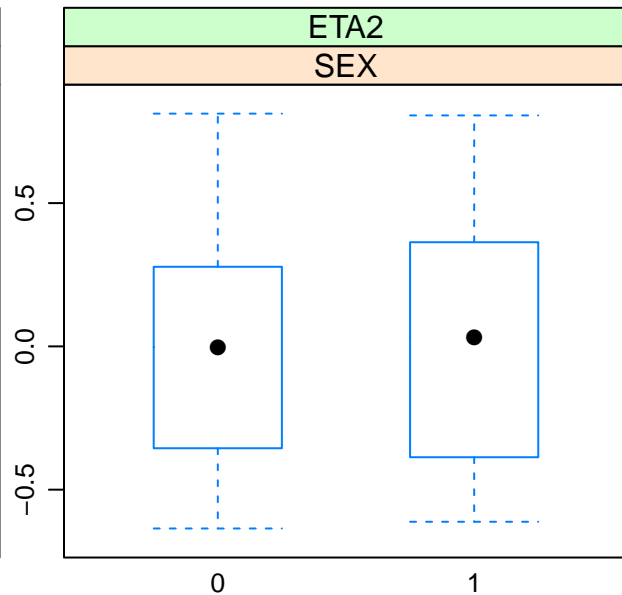
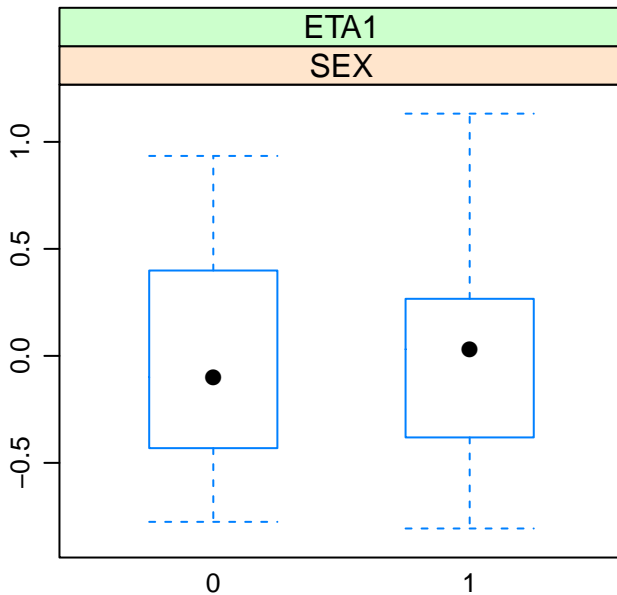


value

# Density of Etas

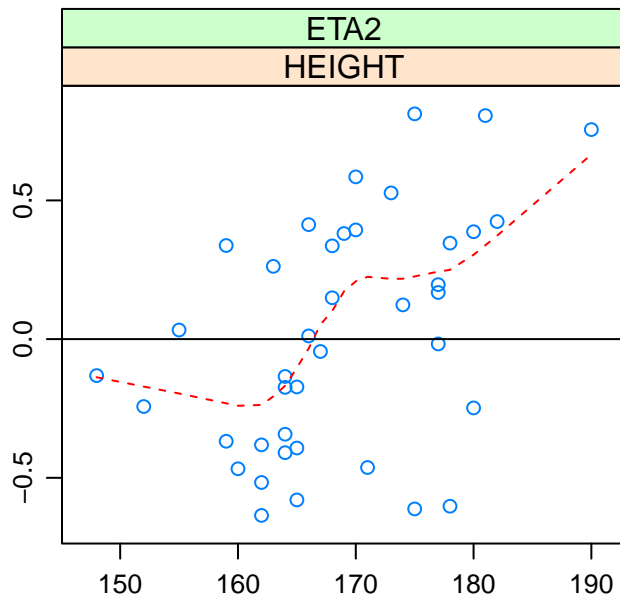
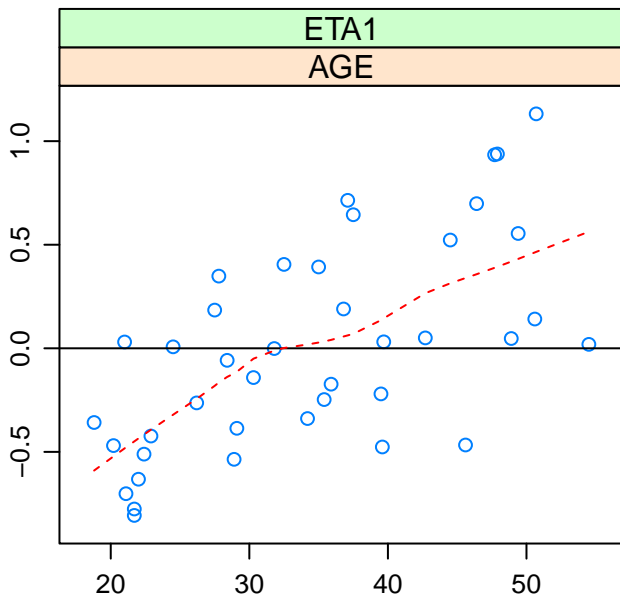
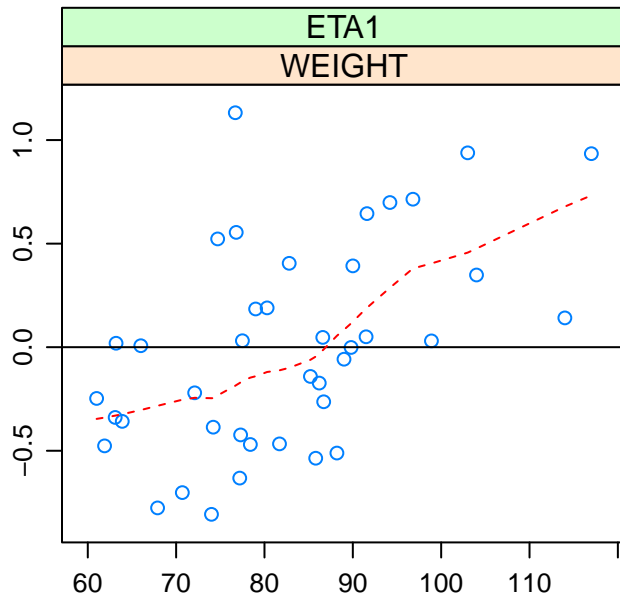
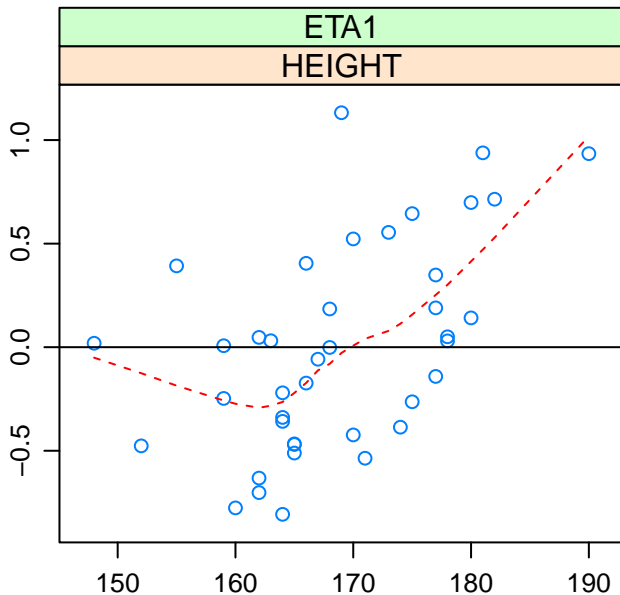


# Boxplots of Etas by Categorical Covariate



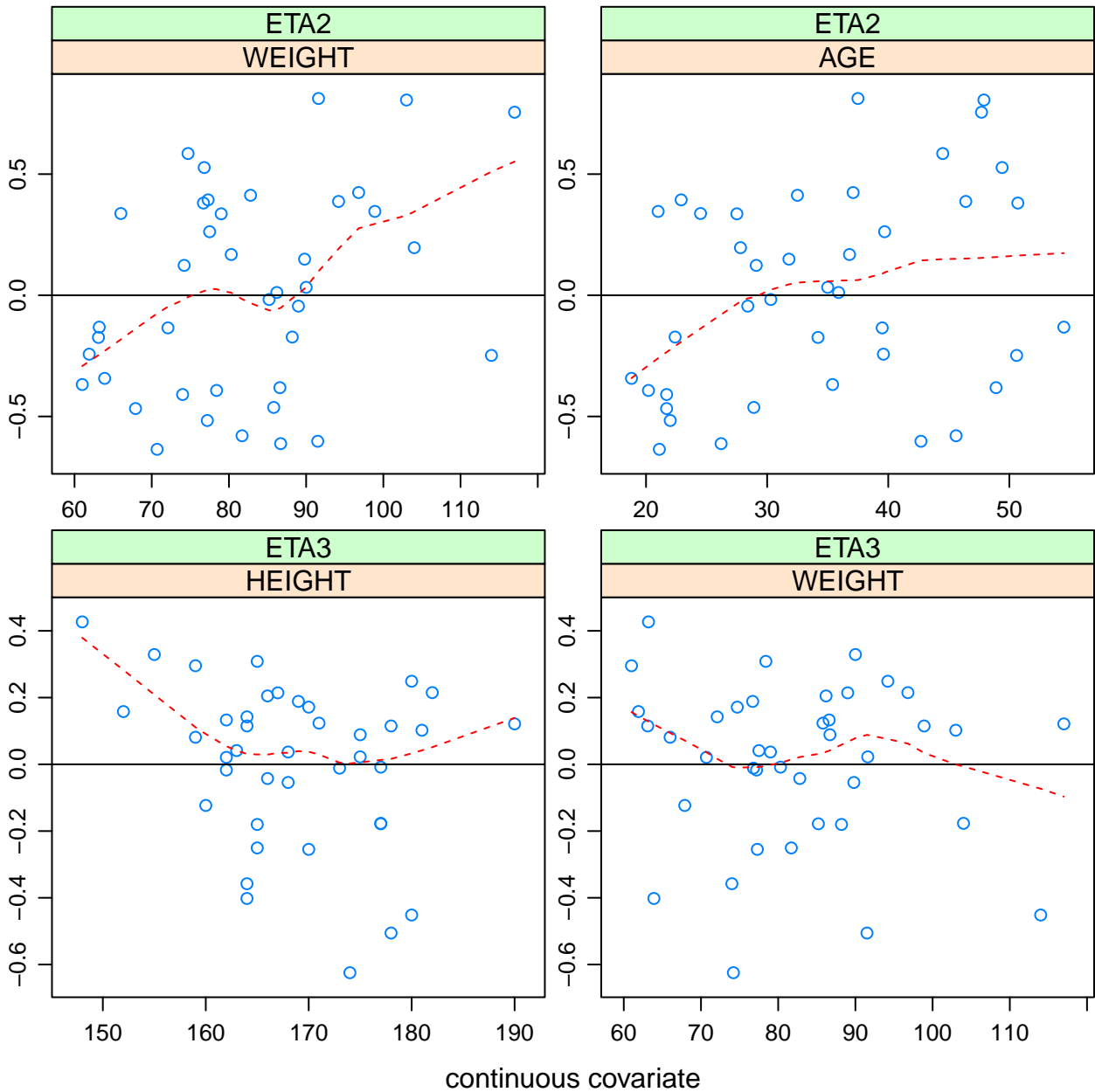
categorical covariate level

# Etas vs. Continuous Covariates

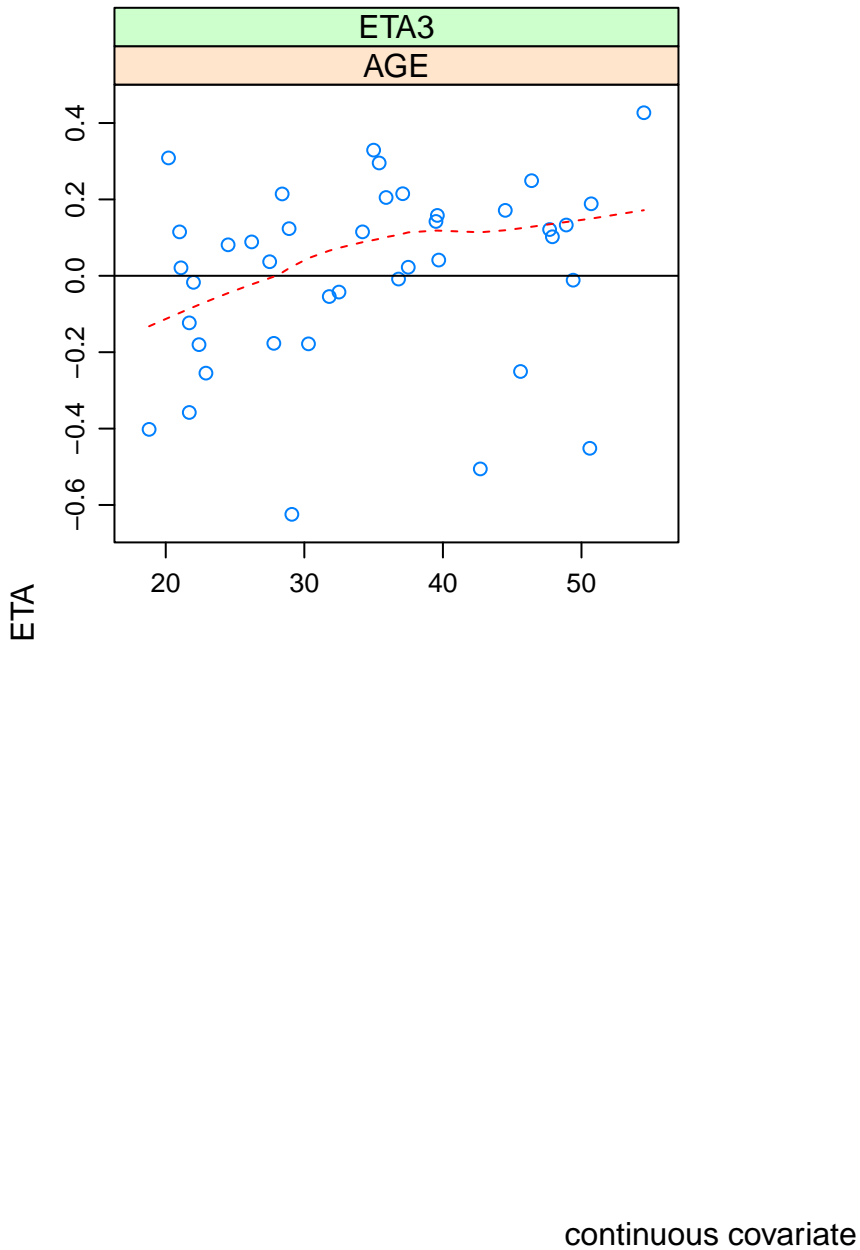


continuous covariate

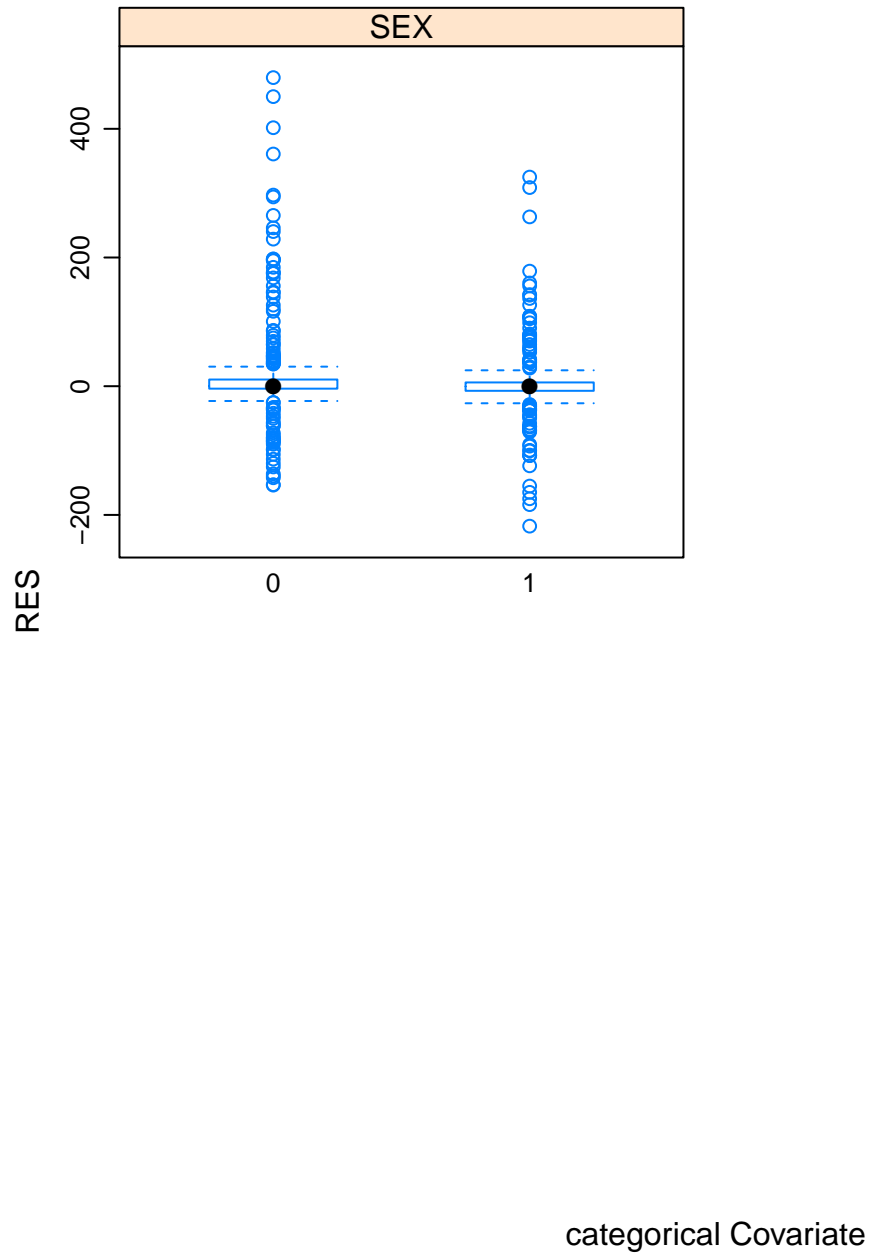
# Etas vs. Continuous Covariates



# Etas vs. Continuous Covariates

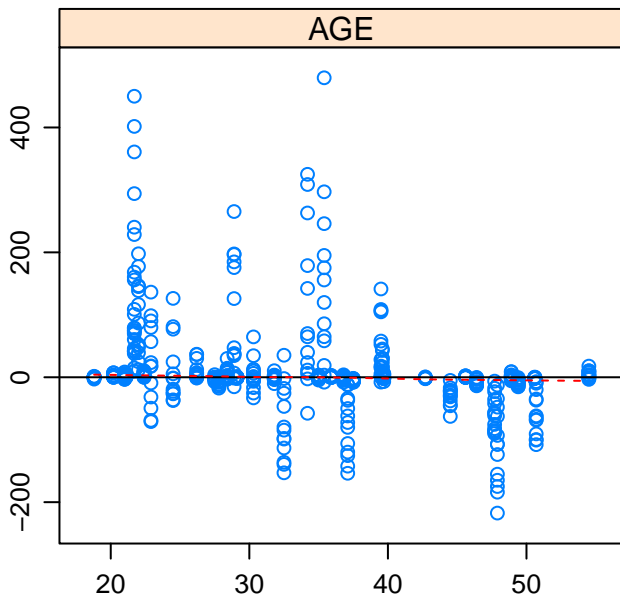
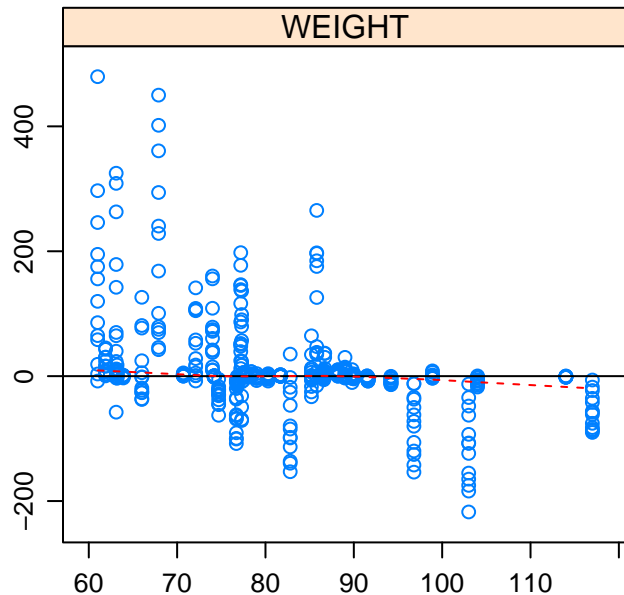
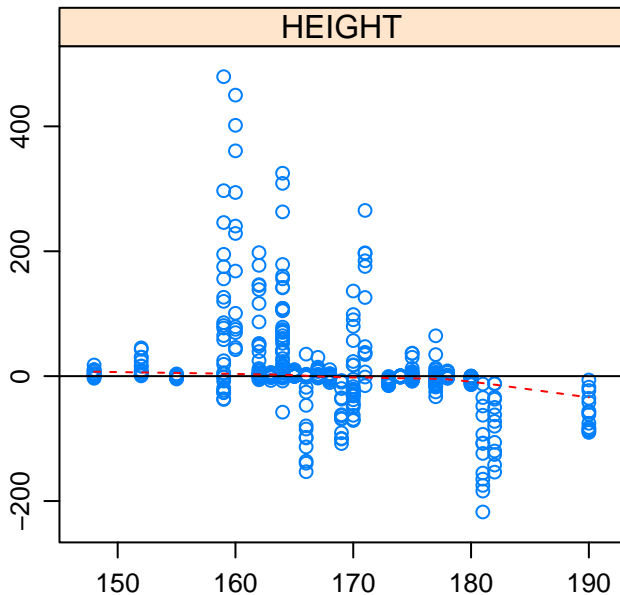


# RES vs. Categorical Covariates



# RES vs. Continuous Covariates

RES

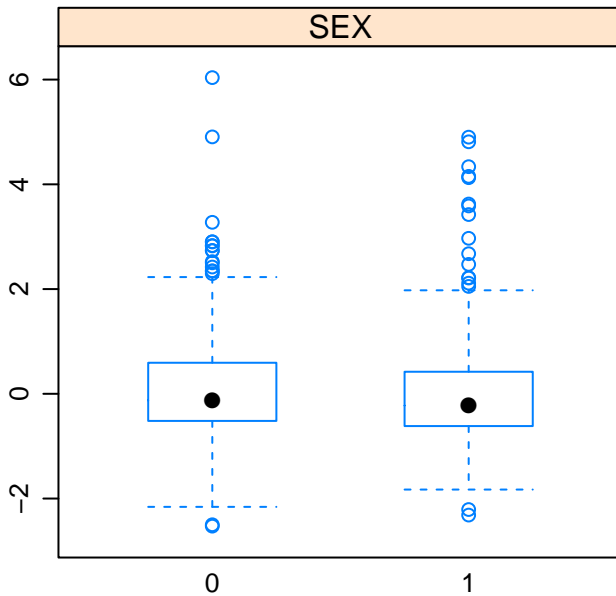


continuous covariate



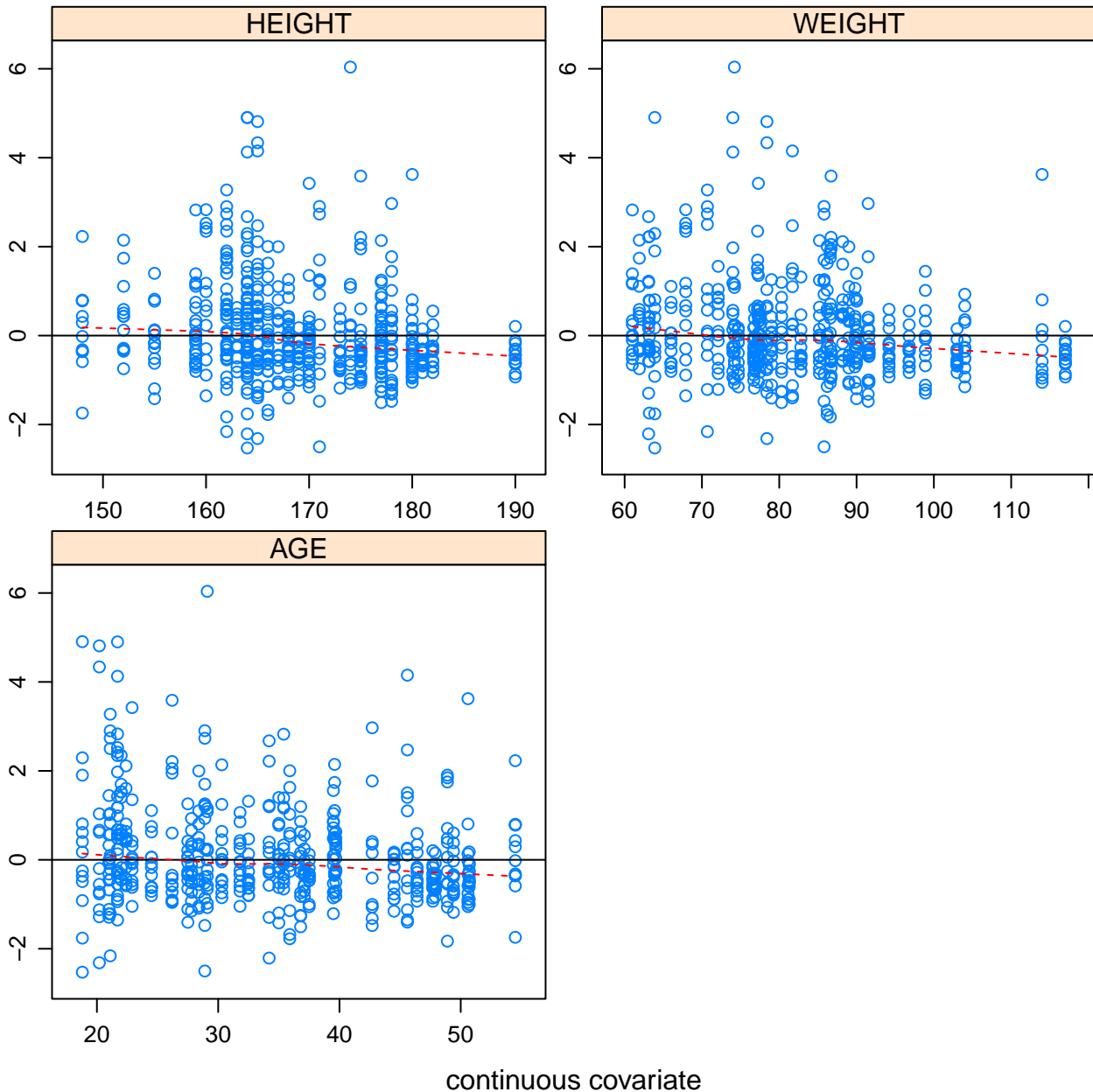
# WRES vs. Categorical Covariates

WRES

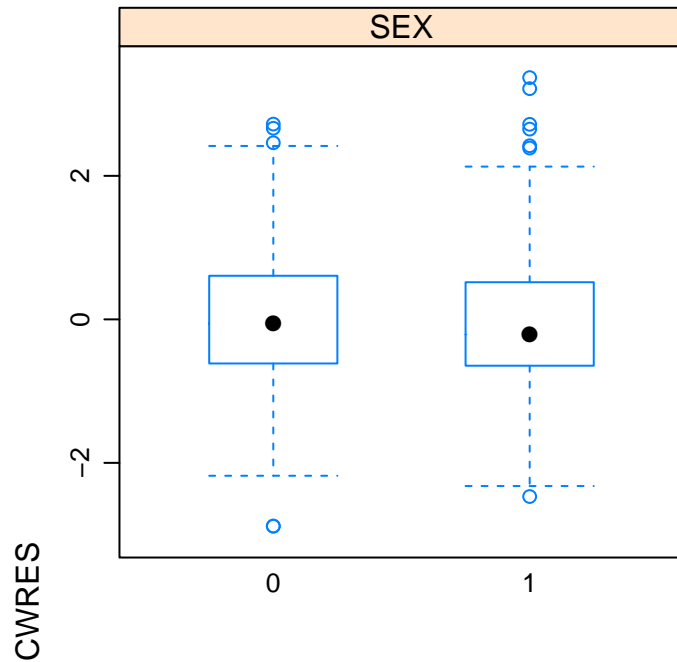


categorical Covariate

# WRES vs. Continuous Covariates

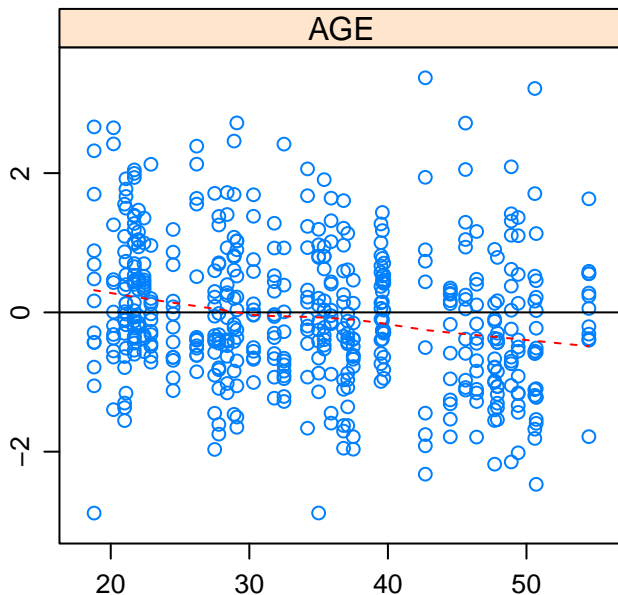
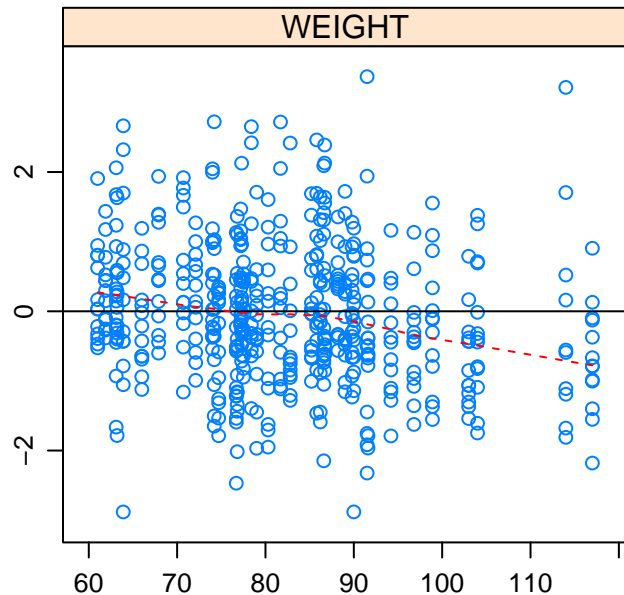
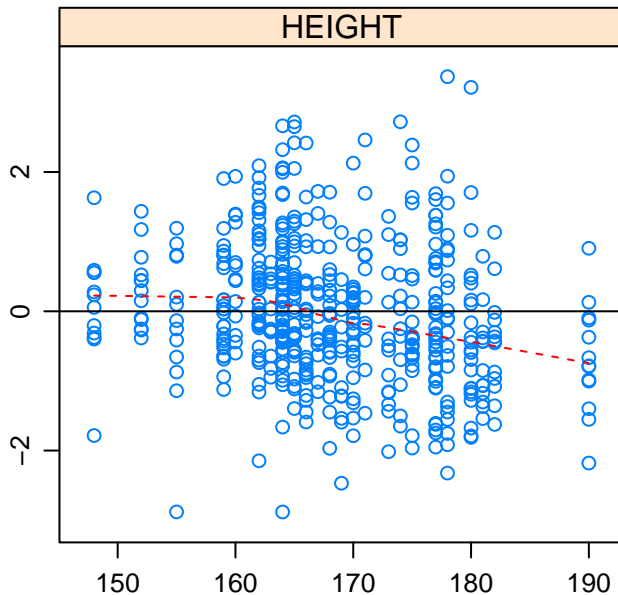


# CWRES vs. Categorical Covariates



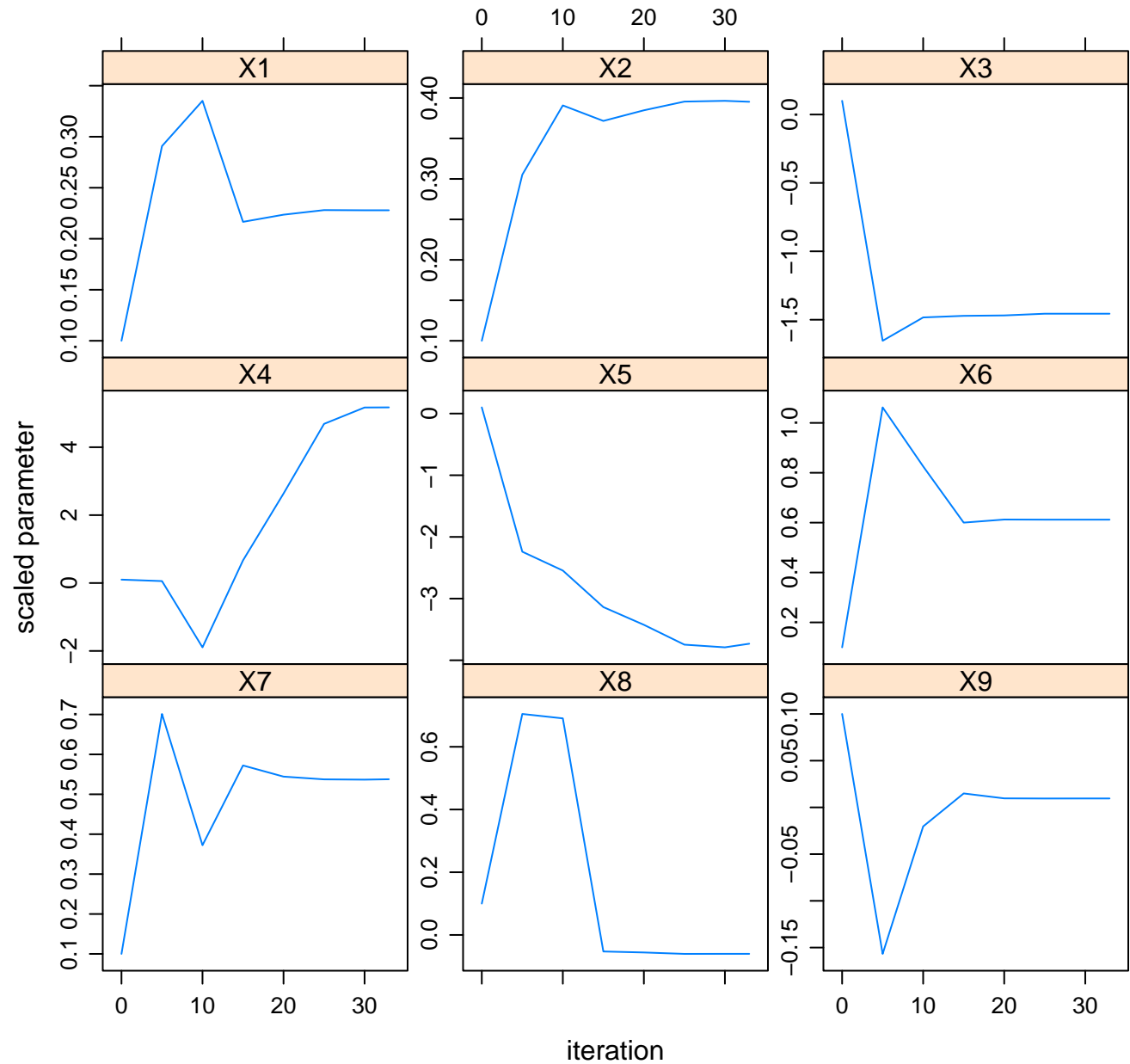
categorical Covariate

# CWRES vs. Continuous Covariates



continuous covariate

# Model 1004 parameter search



# Model 1004 gradient search

