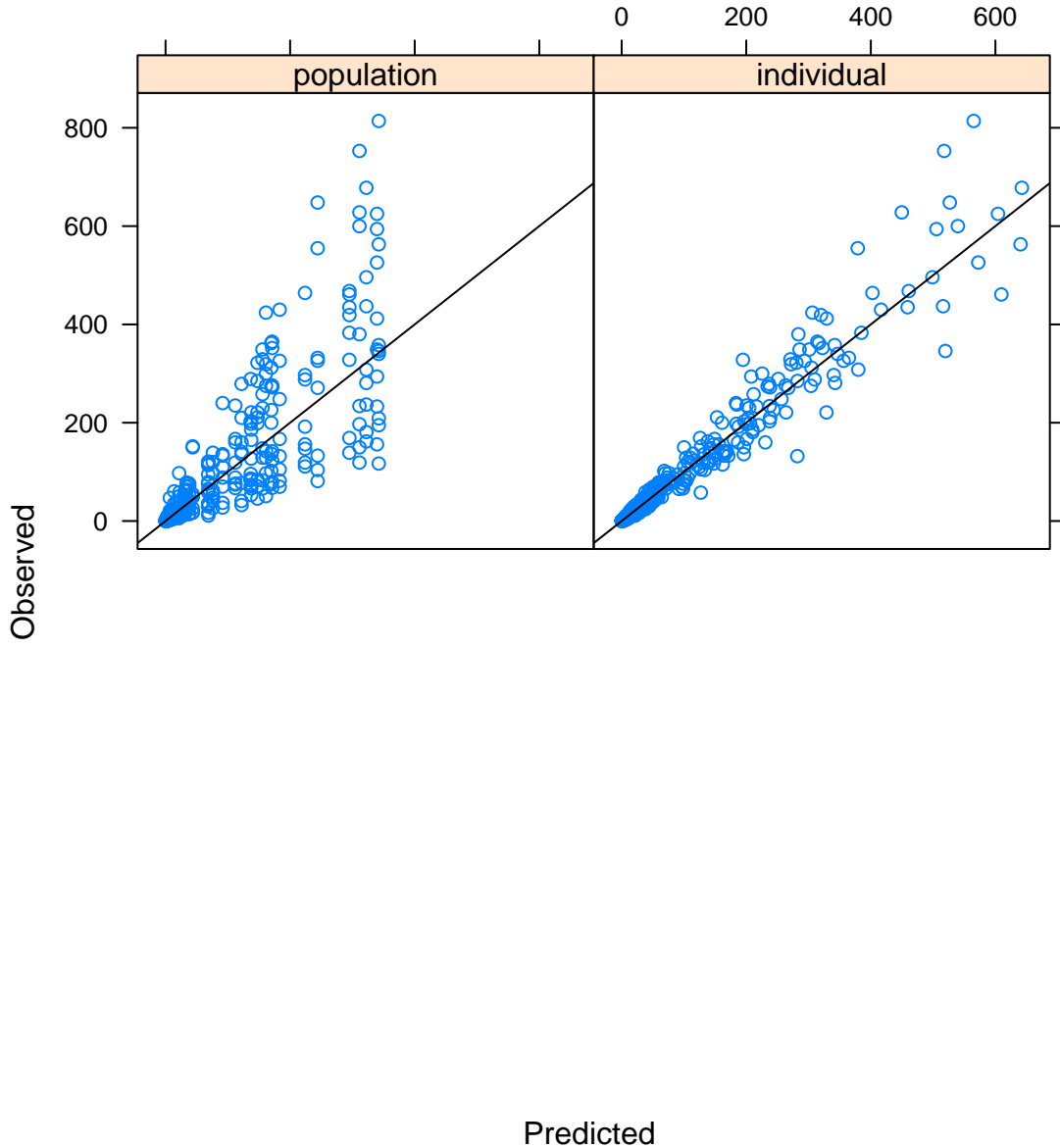


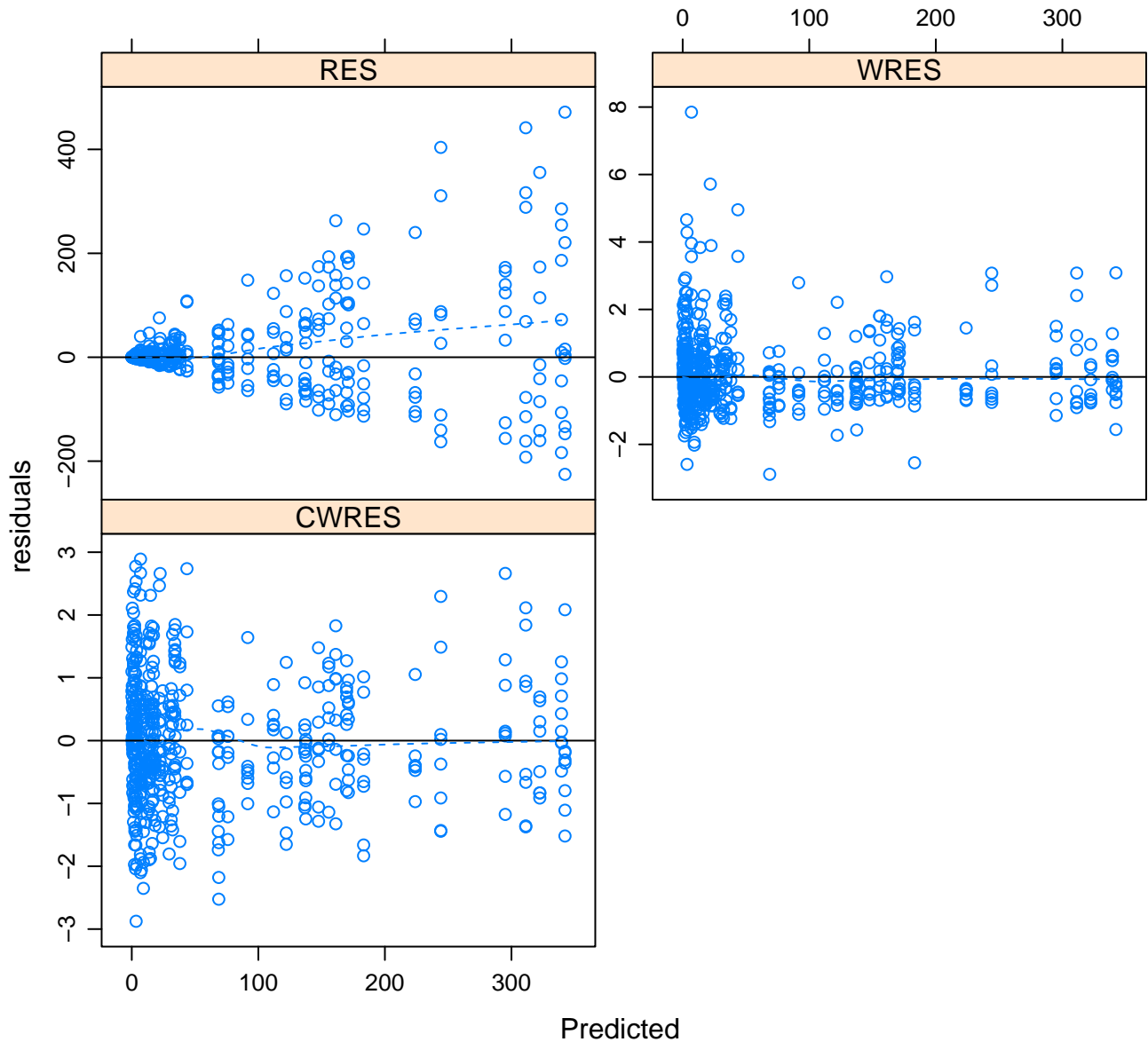
# Model 1002

## Observed vs. Predicted for all data



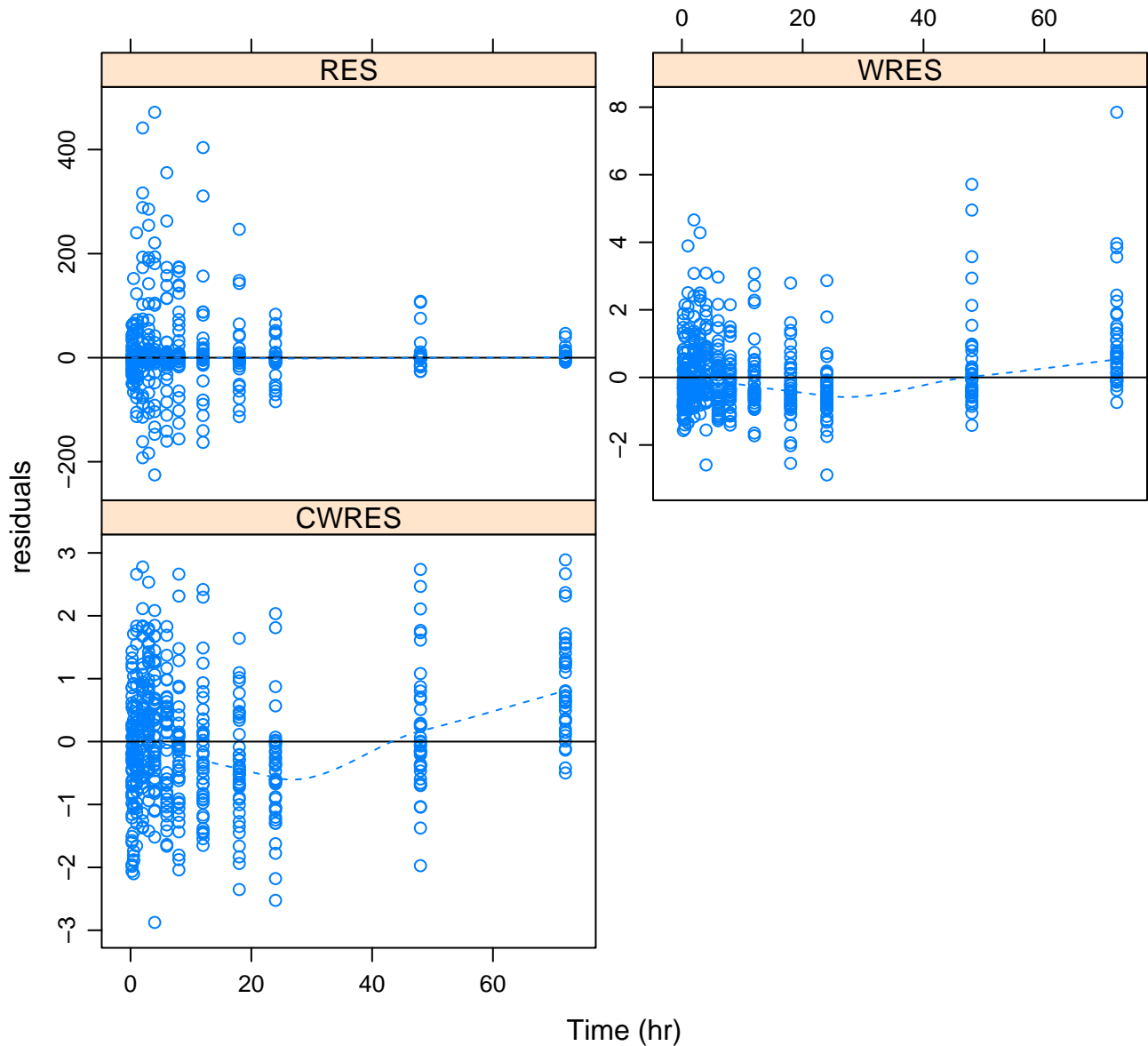
# Model 1002

## Residuals vs. Predicted for all data



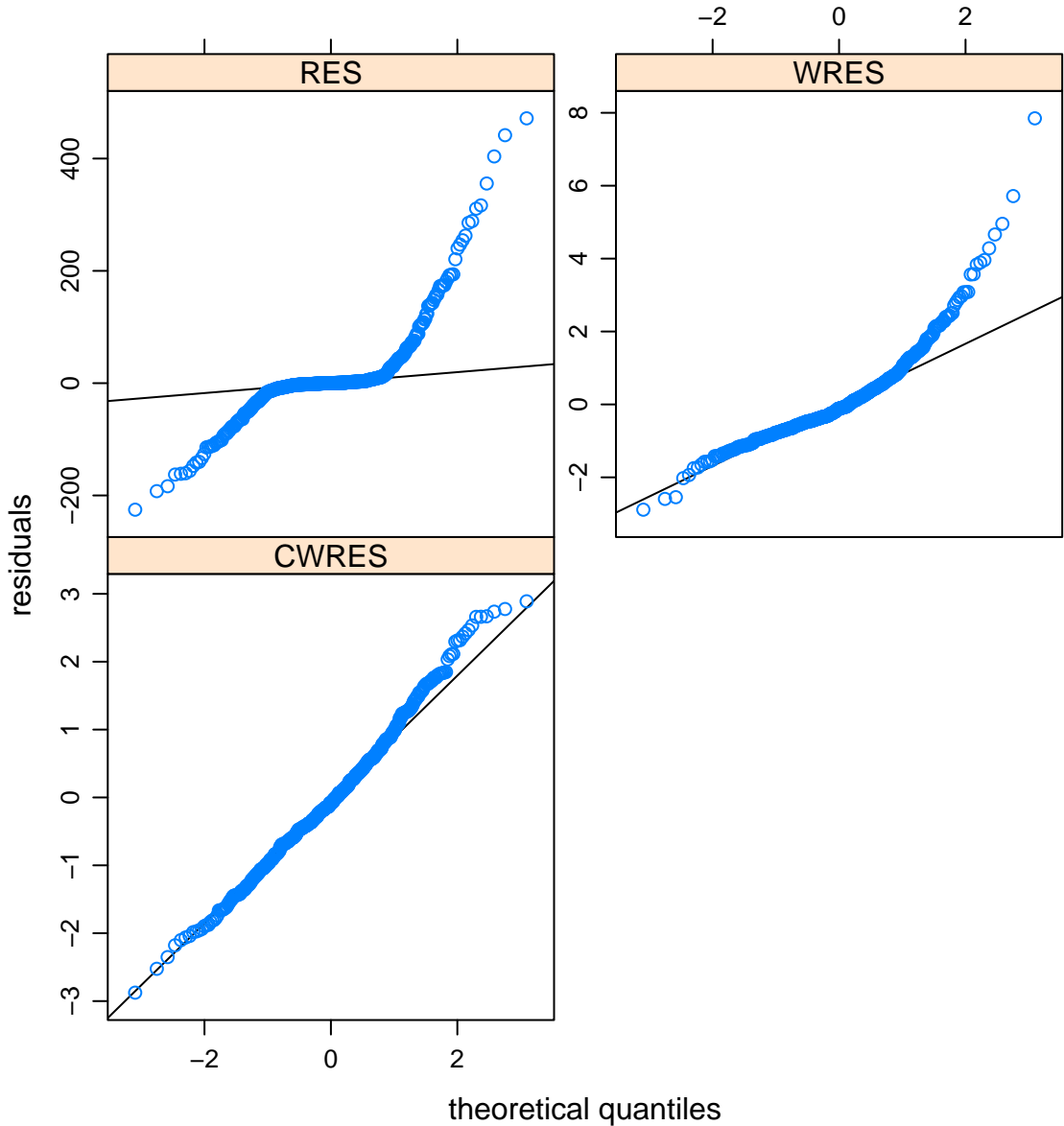
# Model 1002

## Residuals vs. Time for all data

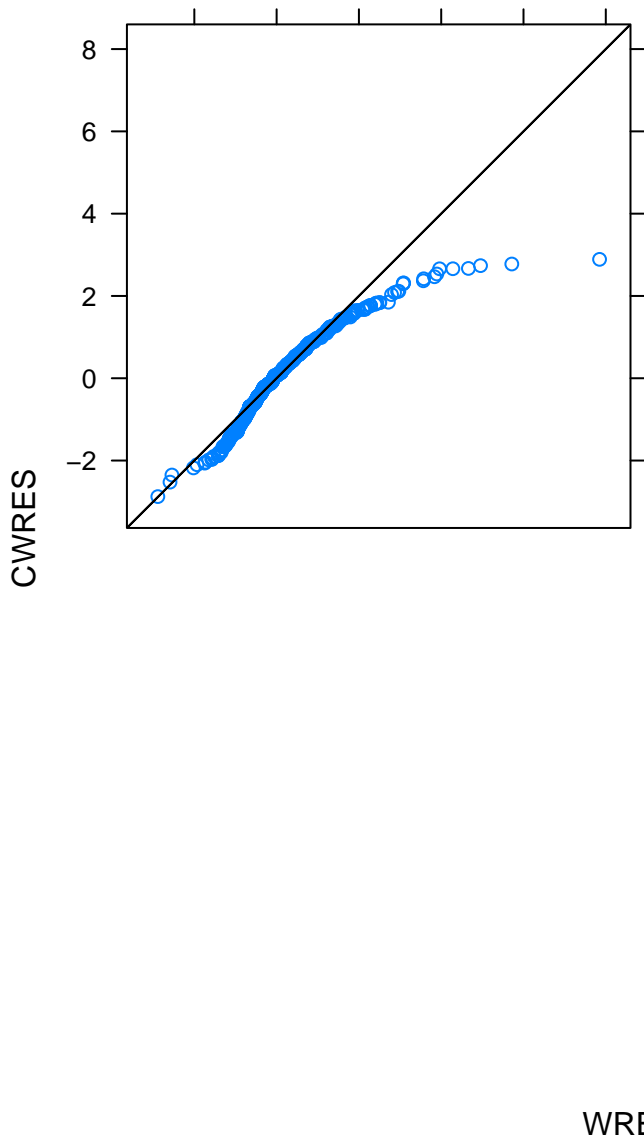


# Model 1002

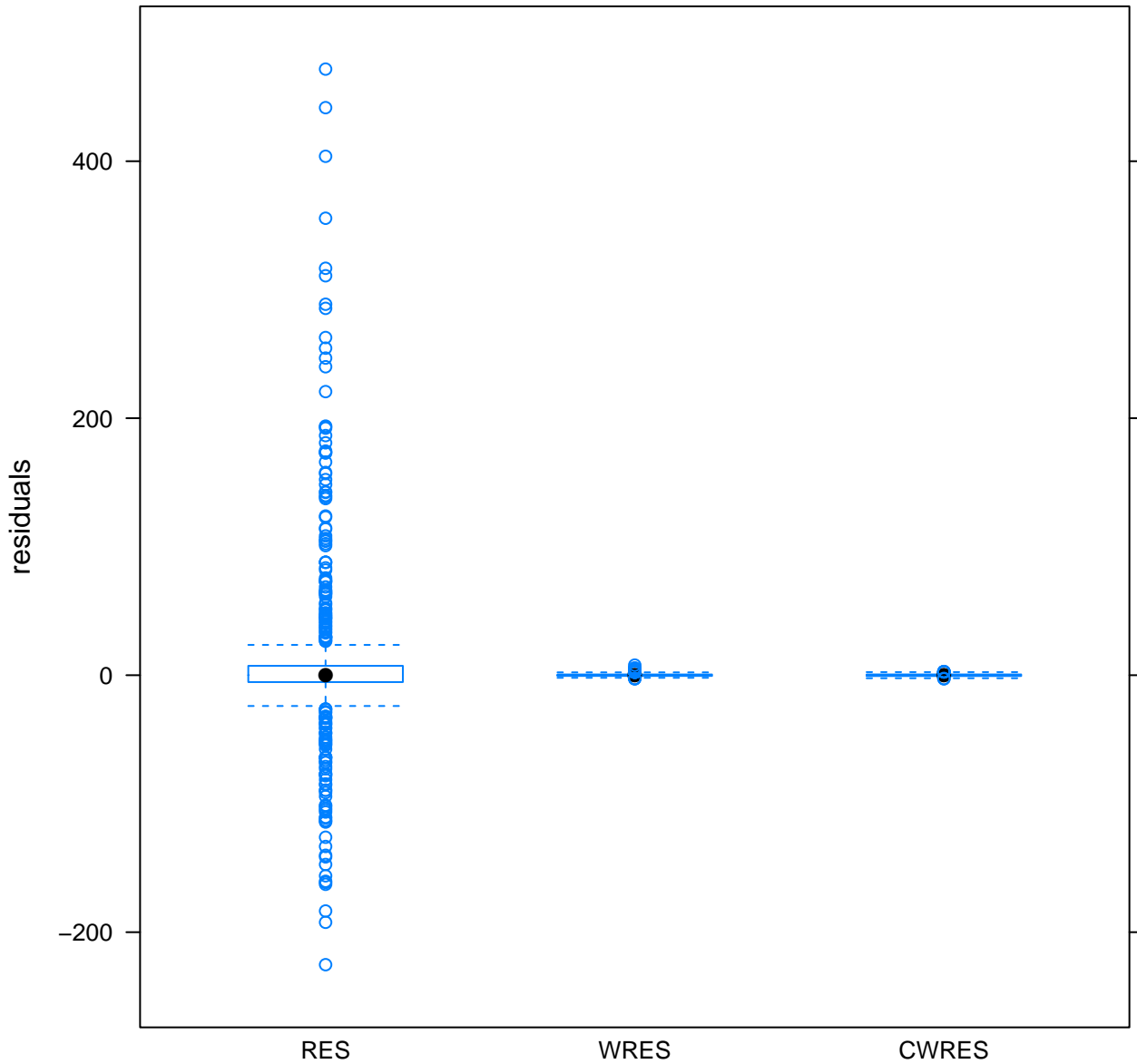
## Normal Q-Q Plot Residuals for all data



**Model 1002**  
**Q-Q Plot of CWRES vs. WRES for all data**

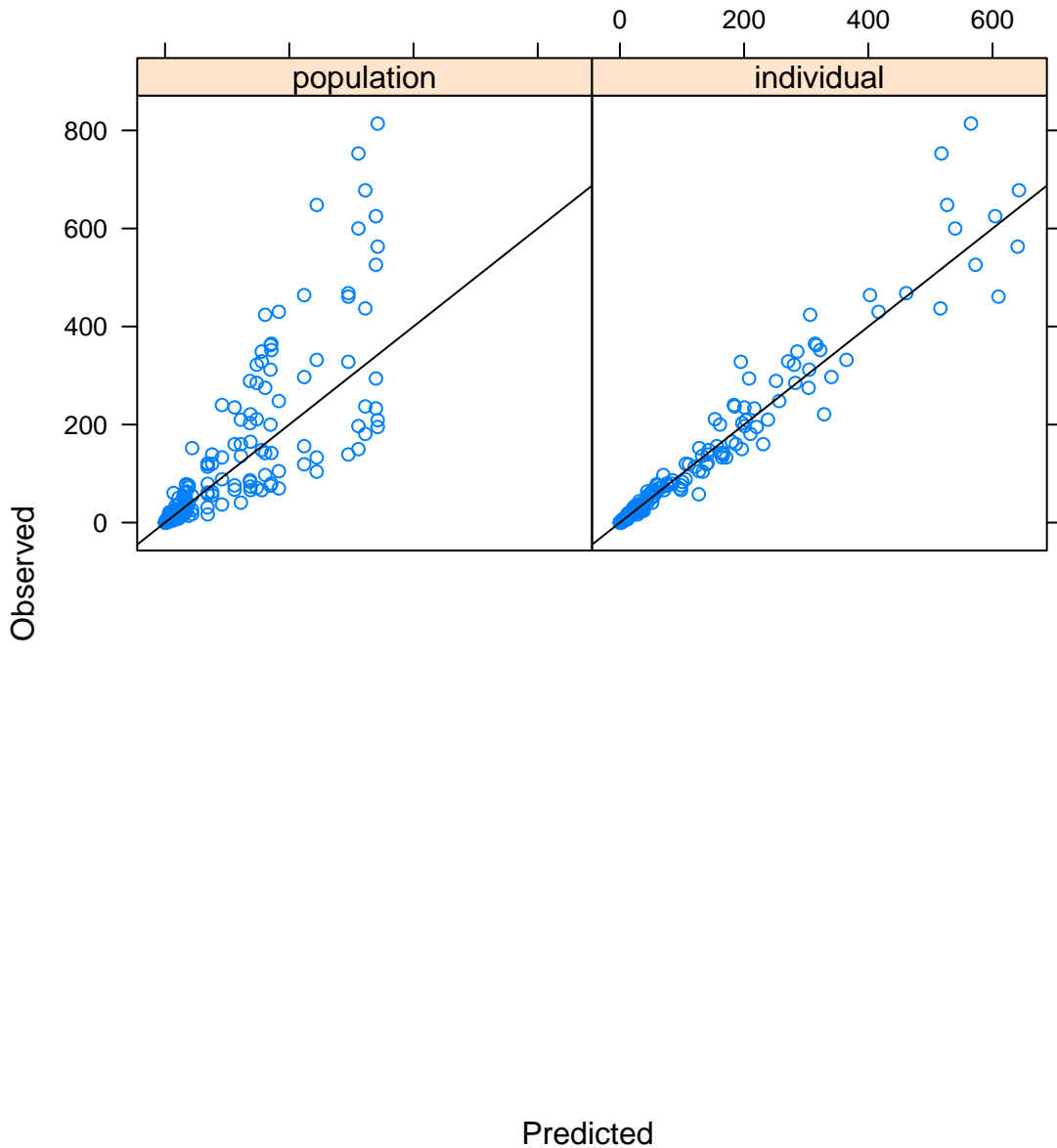


**Model 1002 Boxplots of Residuals for all data**



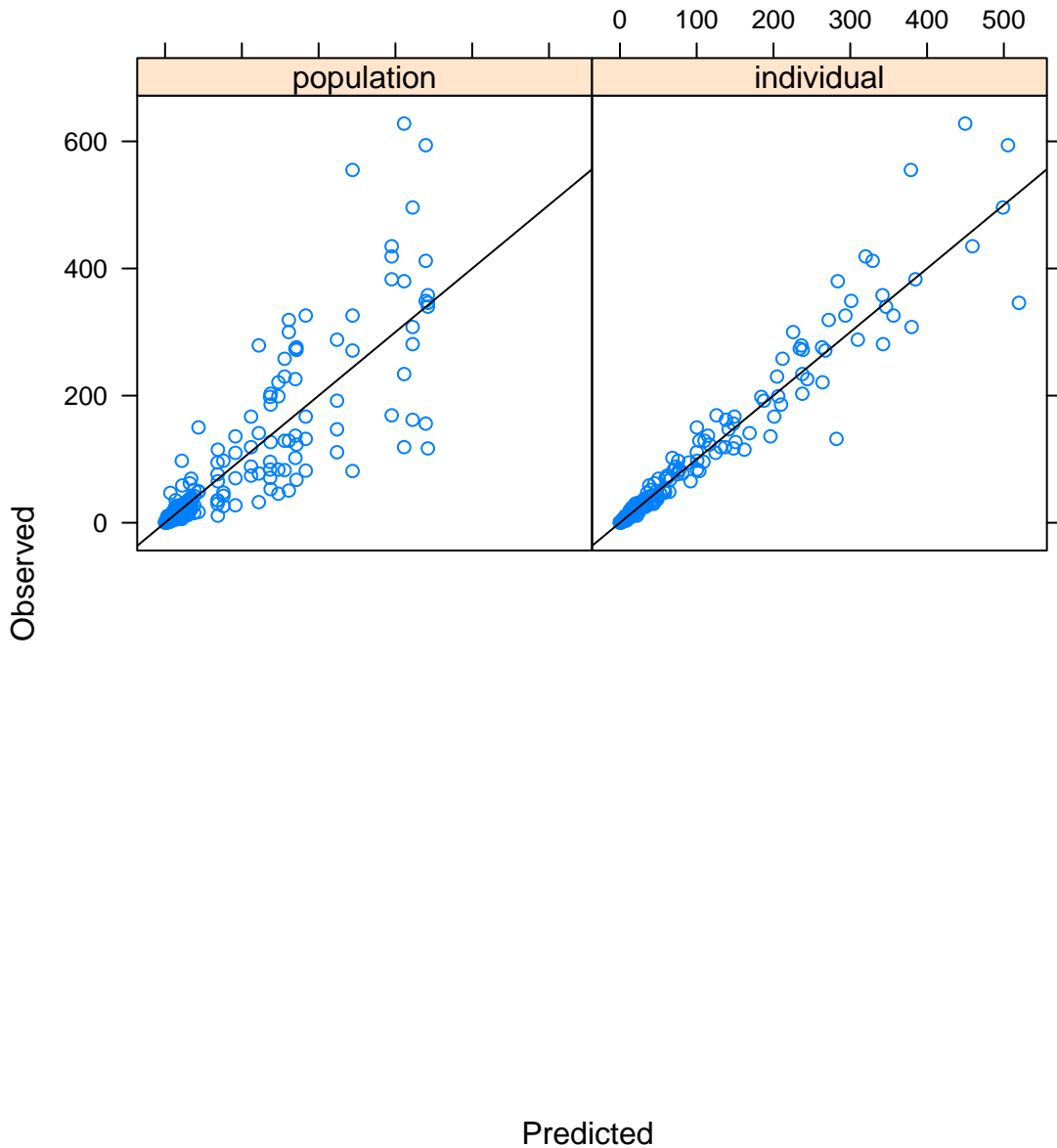
# Model 1002

## Observed vs. Predicted for female data



# Model 1002

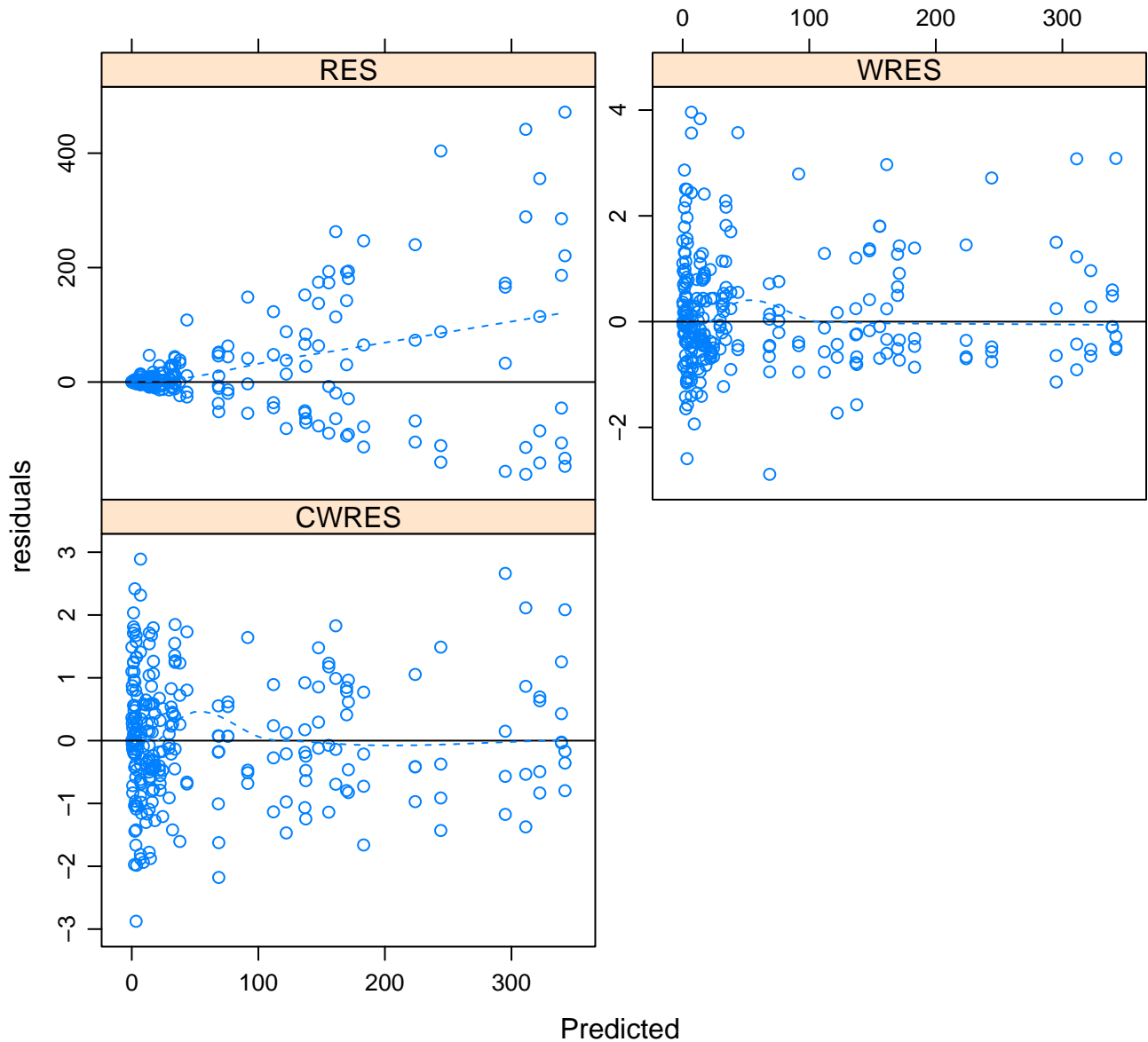
## Observed vs. Predicted for male data





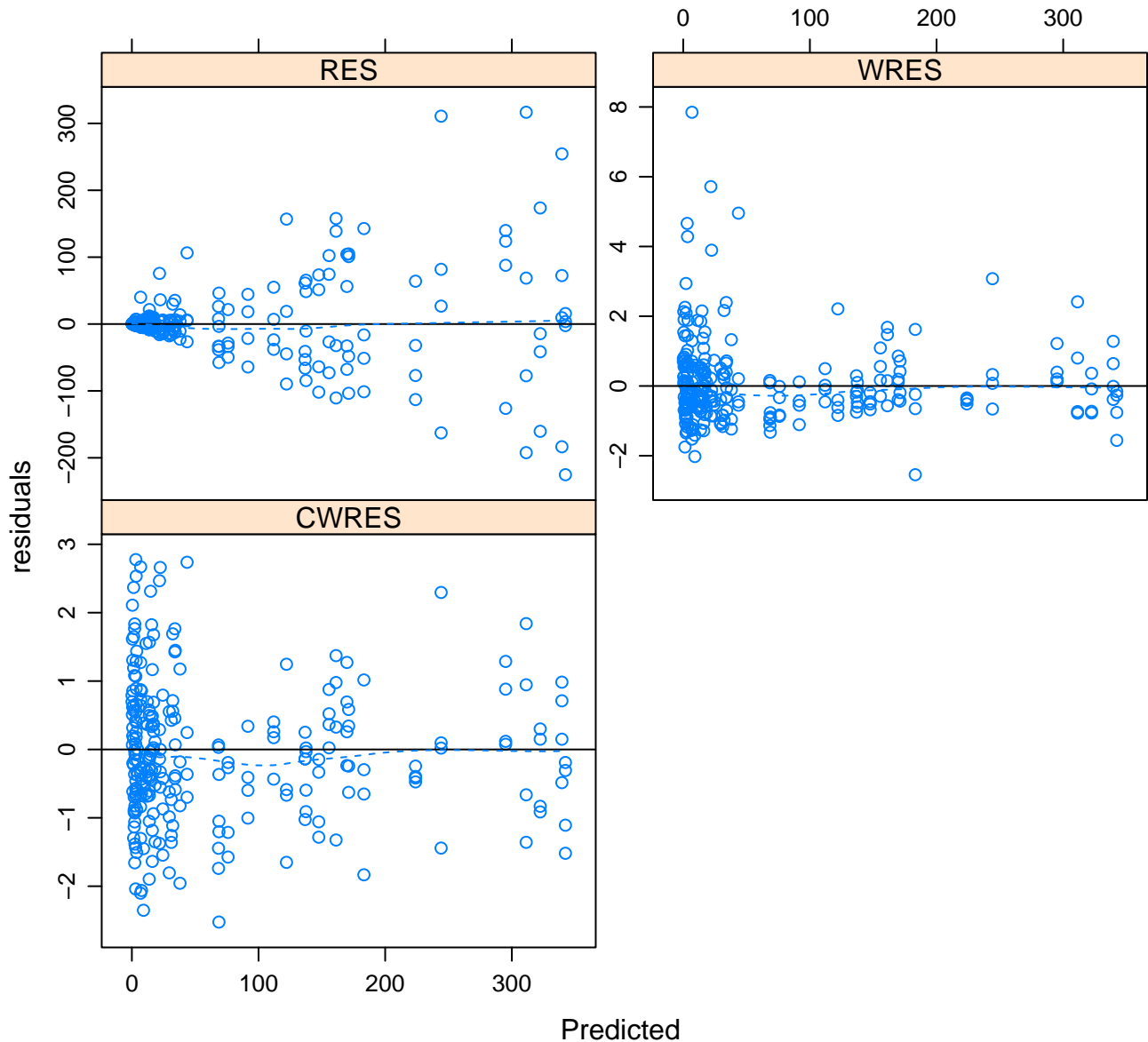
# Model 1002

## Residuals vs. Predicted for female data



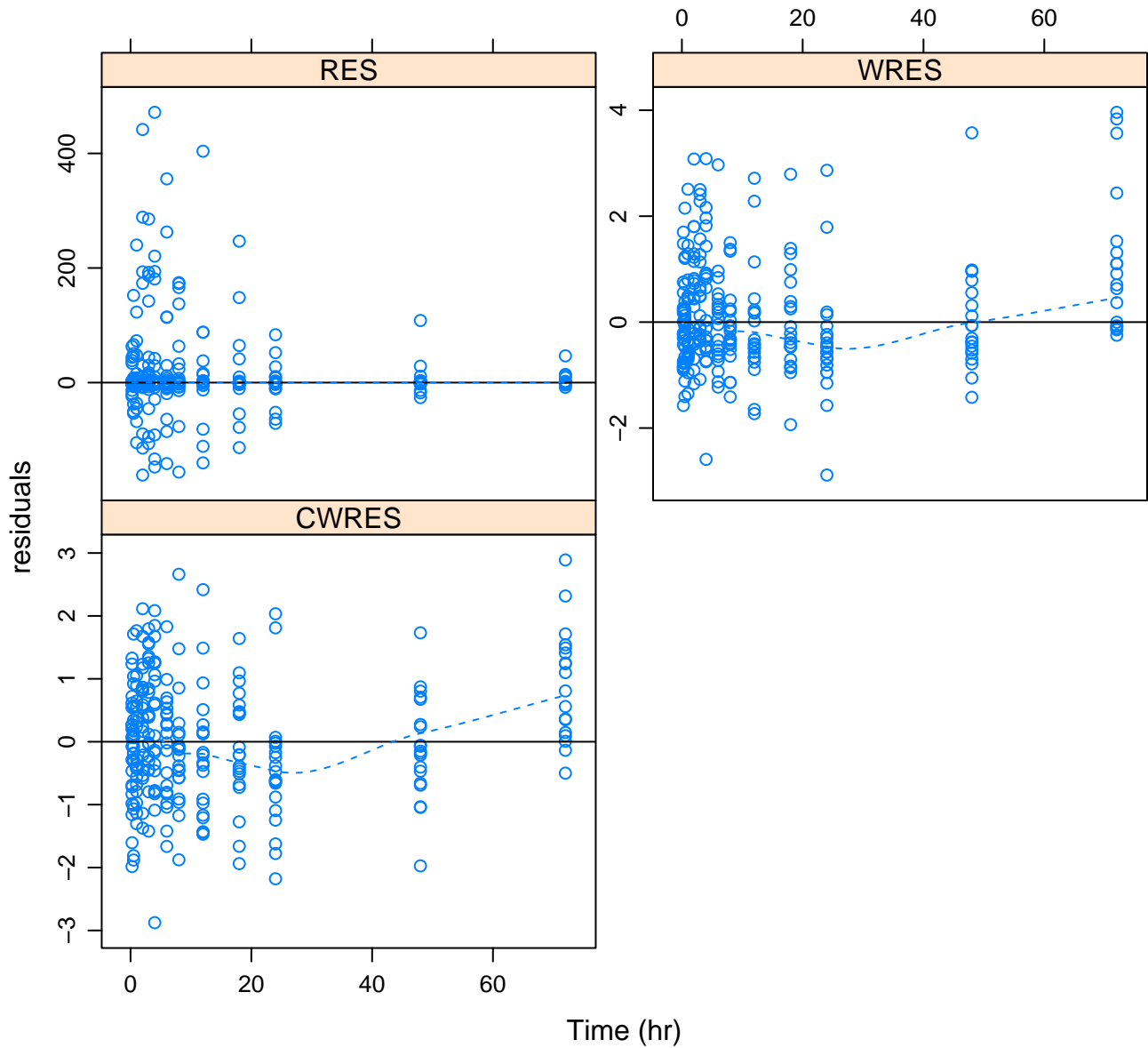
# Model 1002

## Residuals vs. Predicted for male data



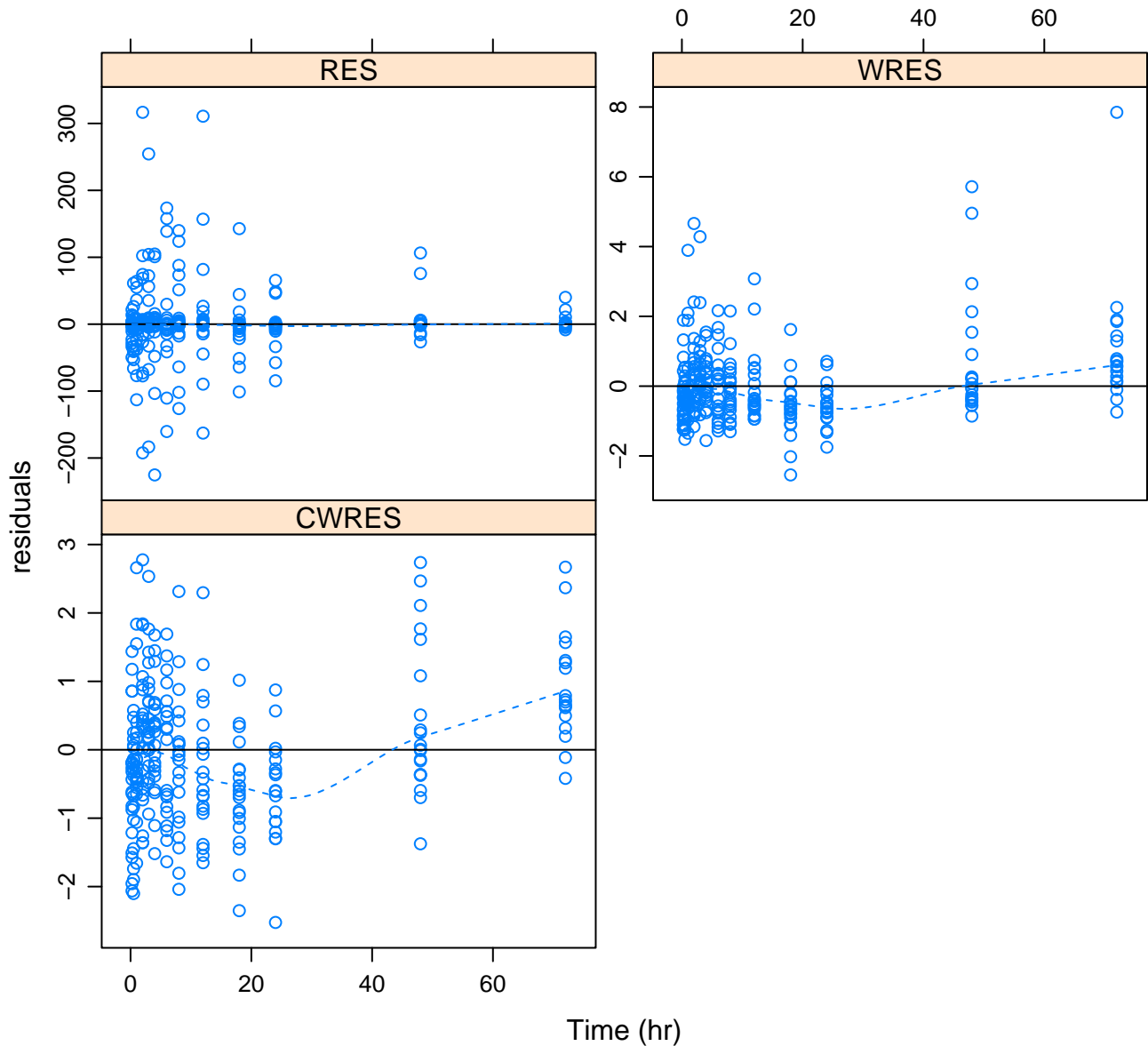
# Model 1002

## Residuals vs. Time for female data



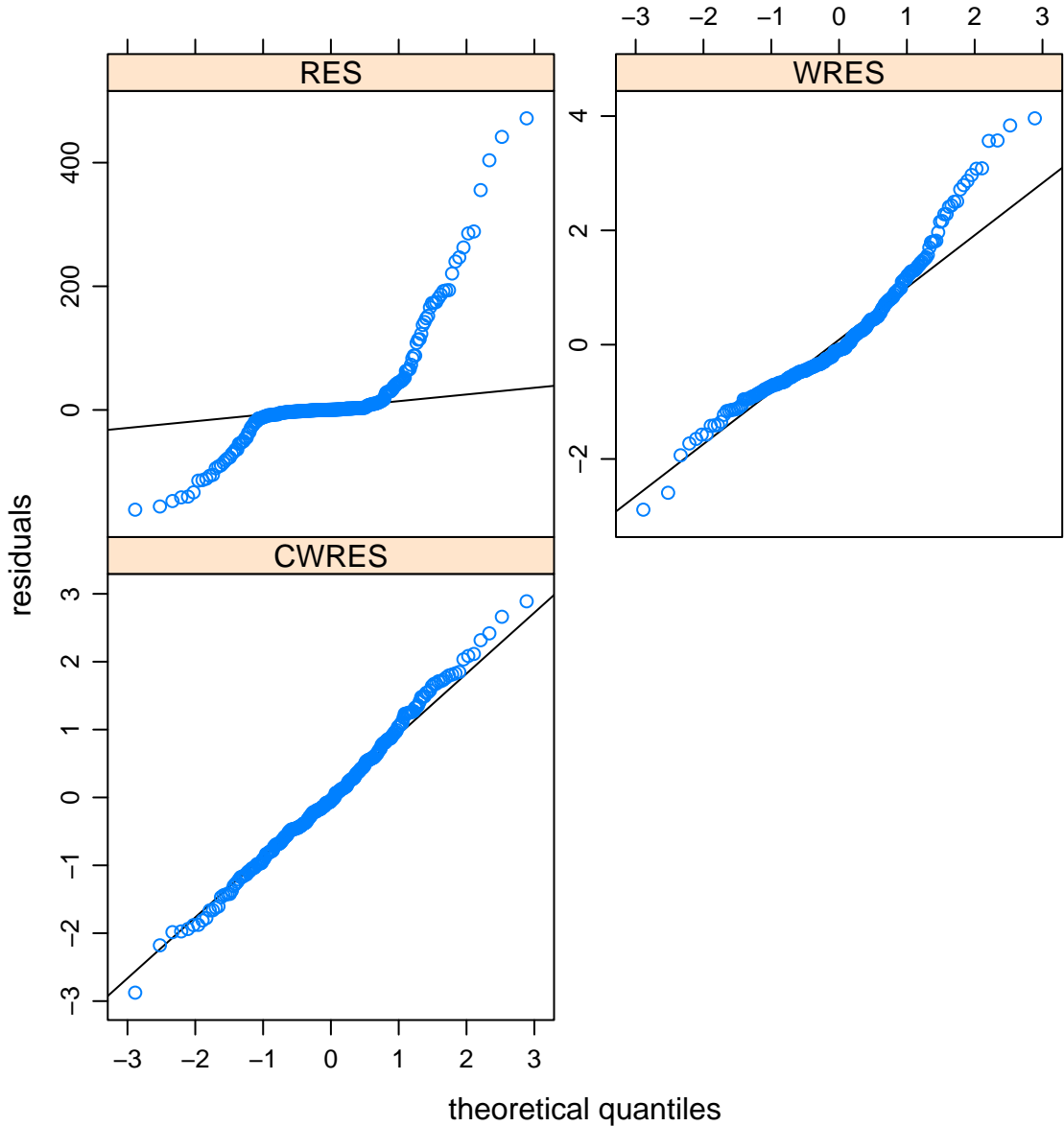
# Model 1002

## Residuals vs. Time for male data



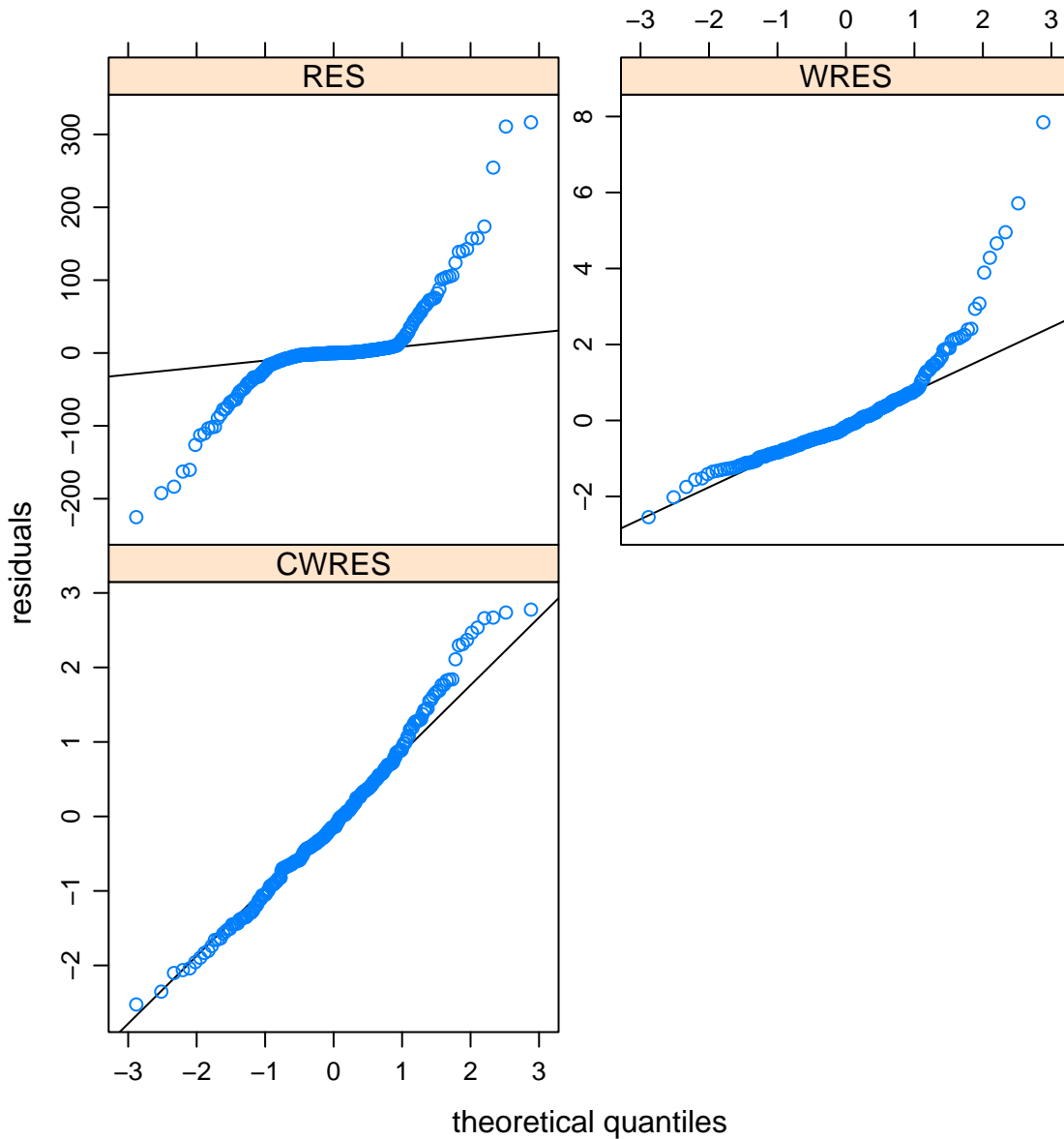
# Model 1002

## Normal Q-Q Plot Residuals for female data

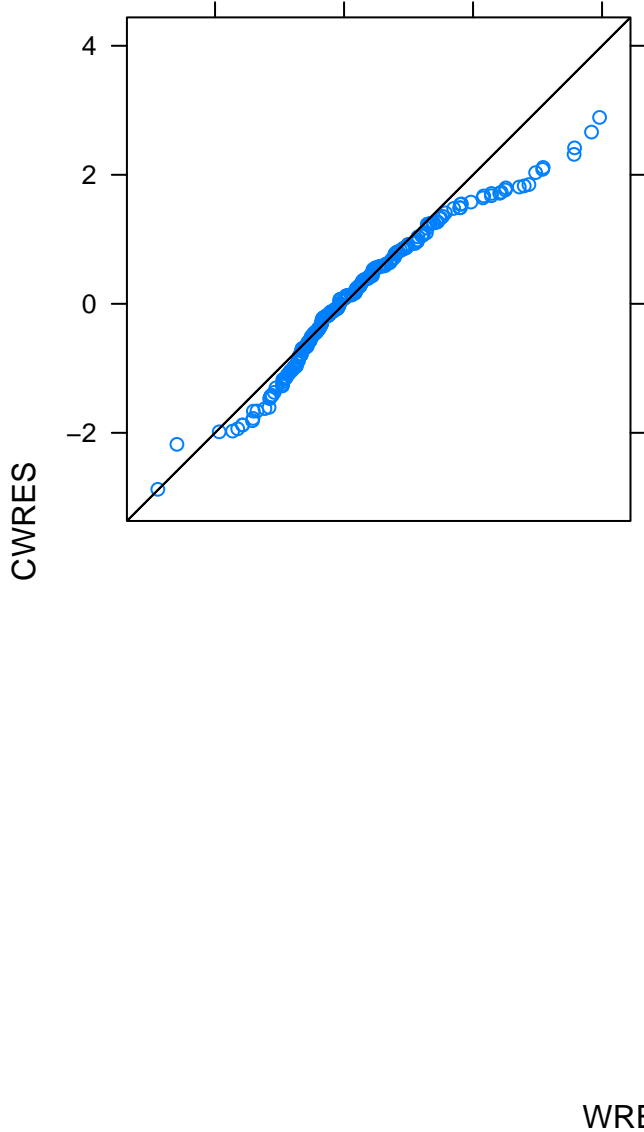


# Model 1002

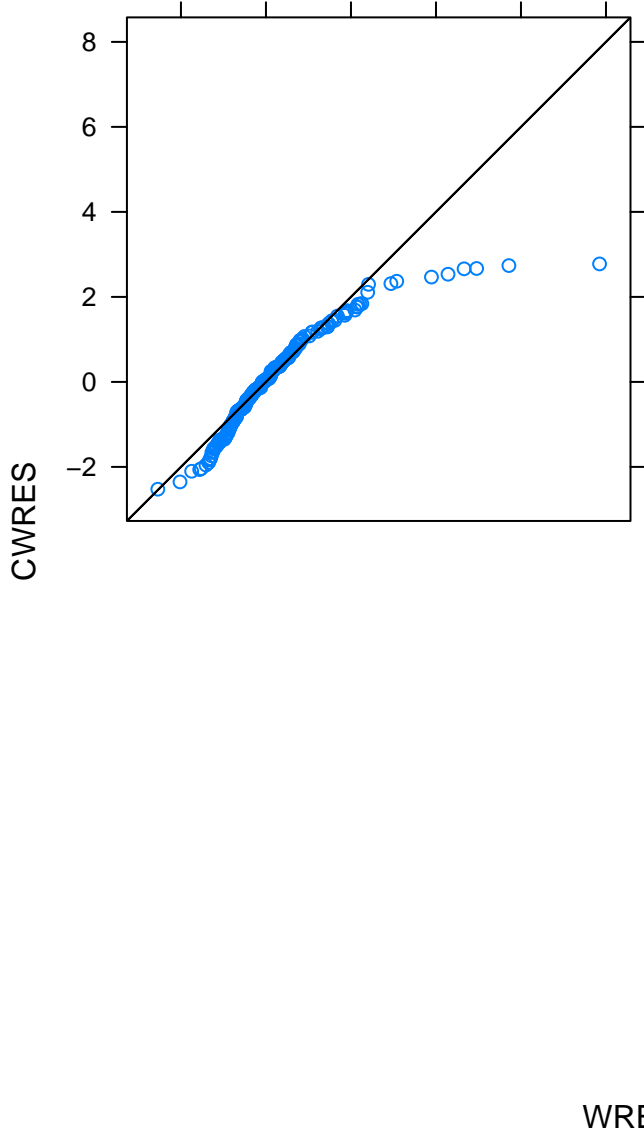
## Normal Q-Q Plot Residuals for male data



**Model 1002**  
**Q-Q Plot of CWRES vs. WRES for female data**

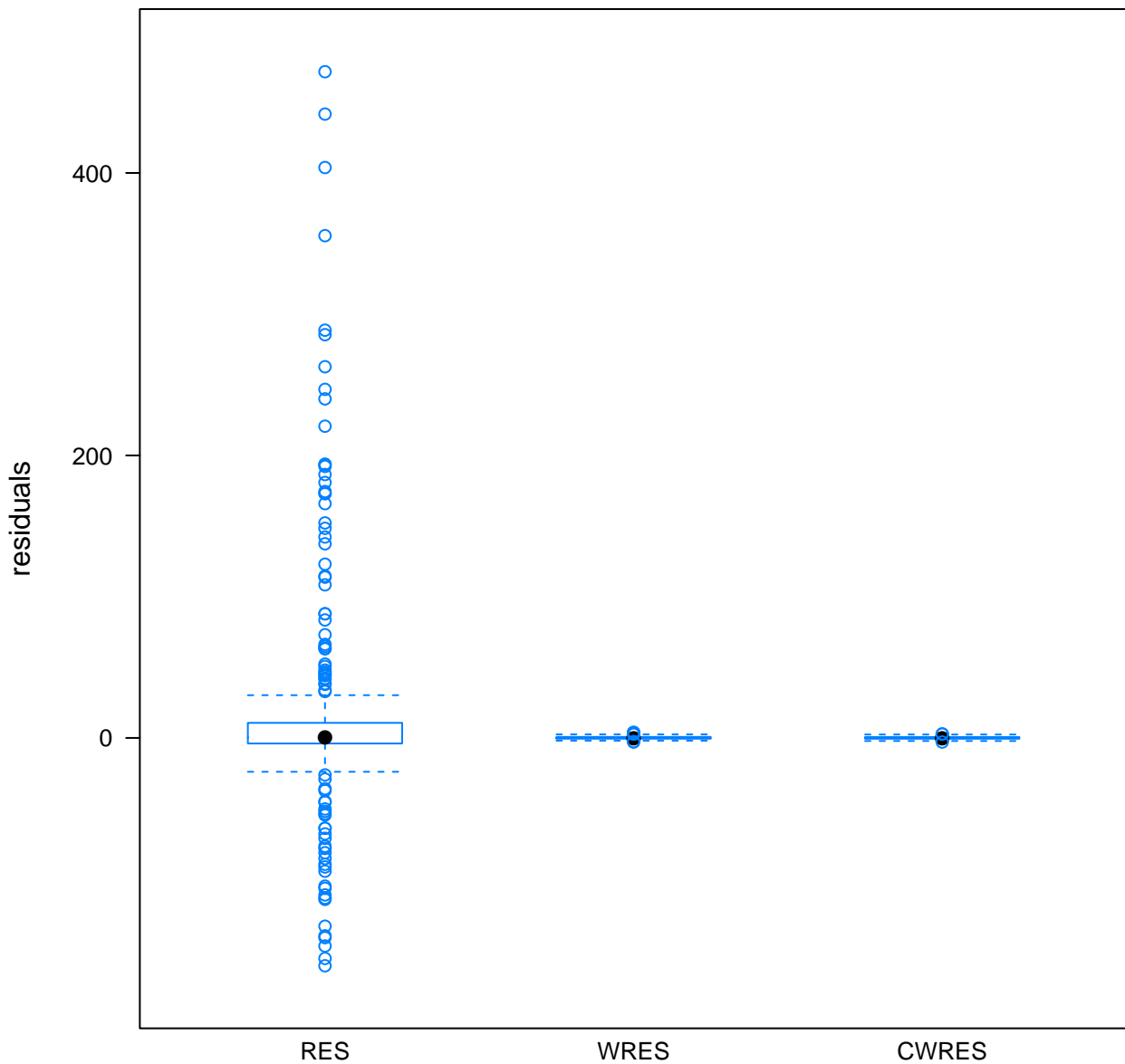


**Model 1002**  
**Q-Q Plot of CWRES vs. WRES for male data**

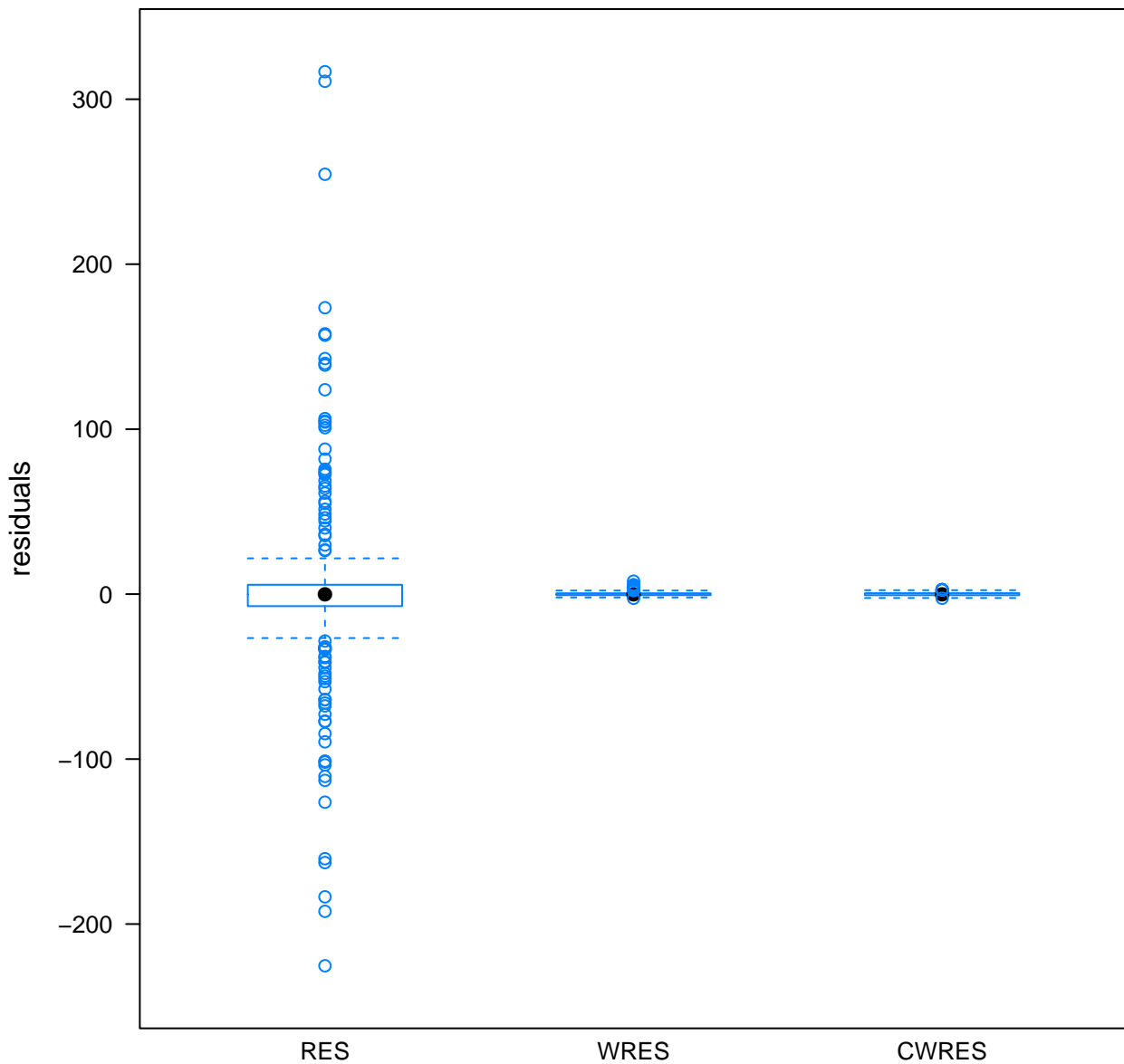




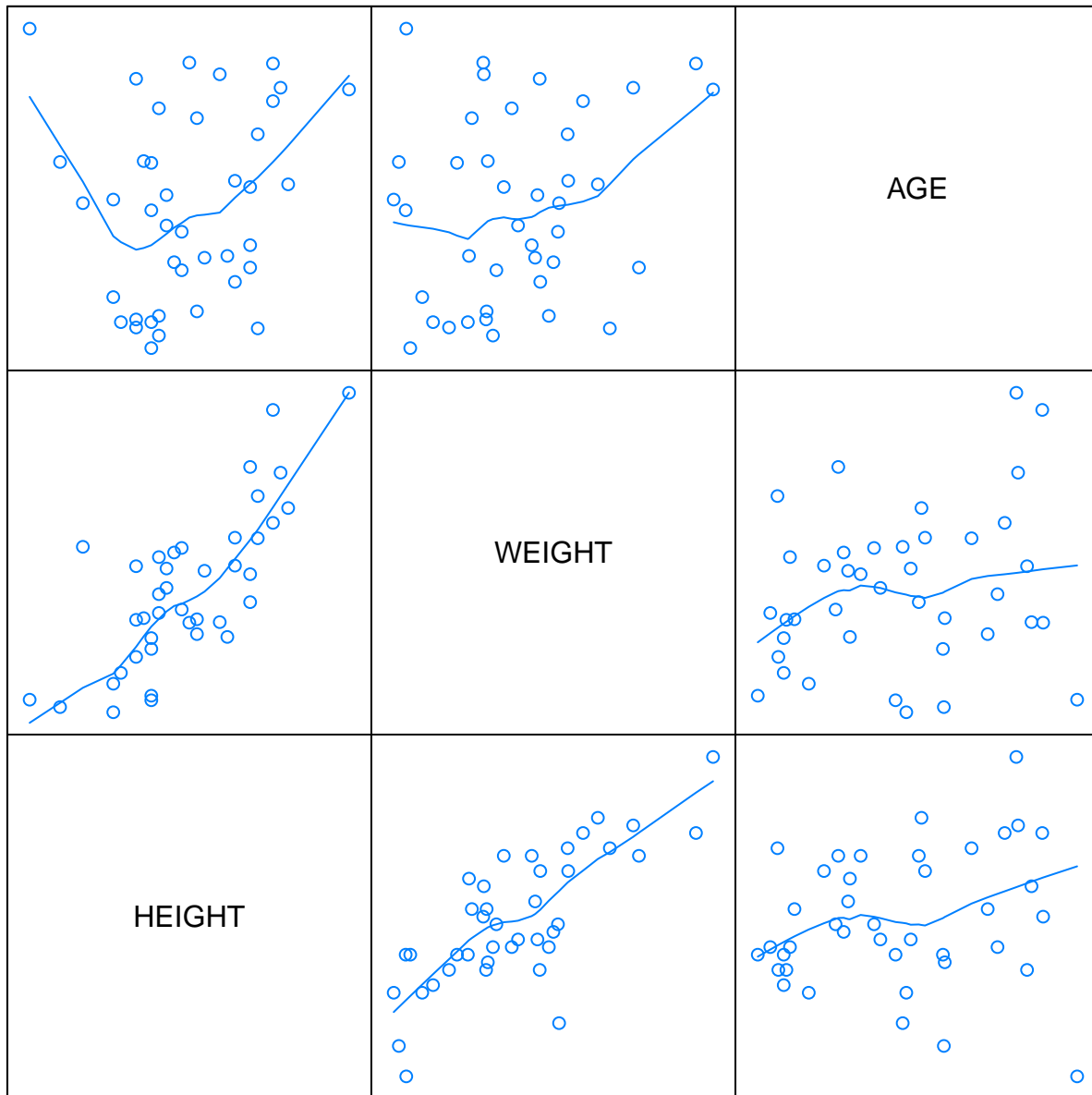
**Model 1002 Boxplots of Residuals for female data**



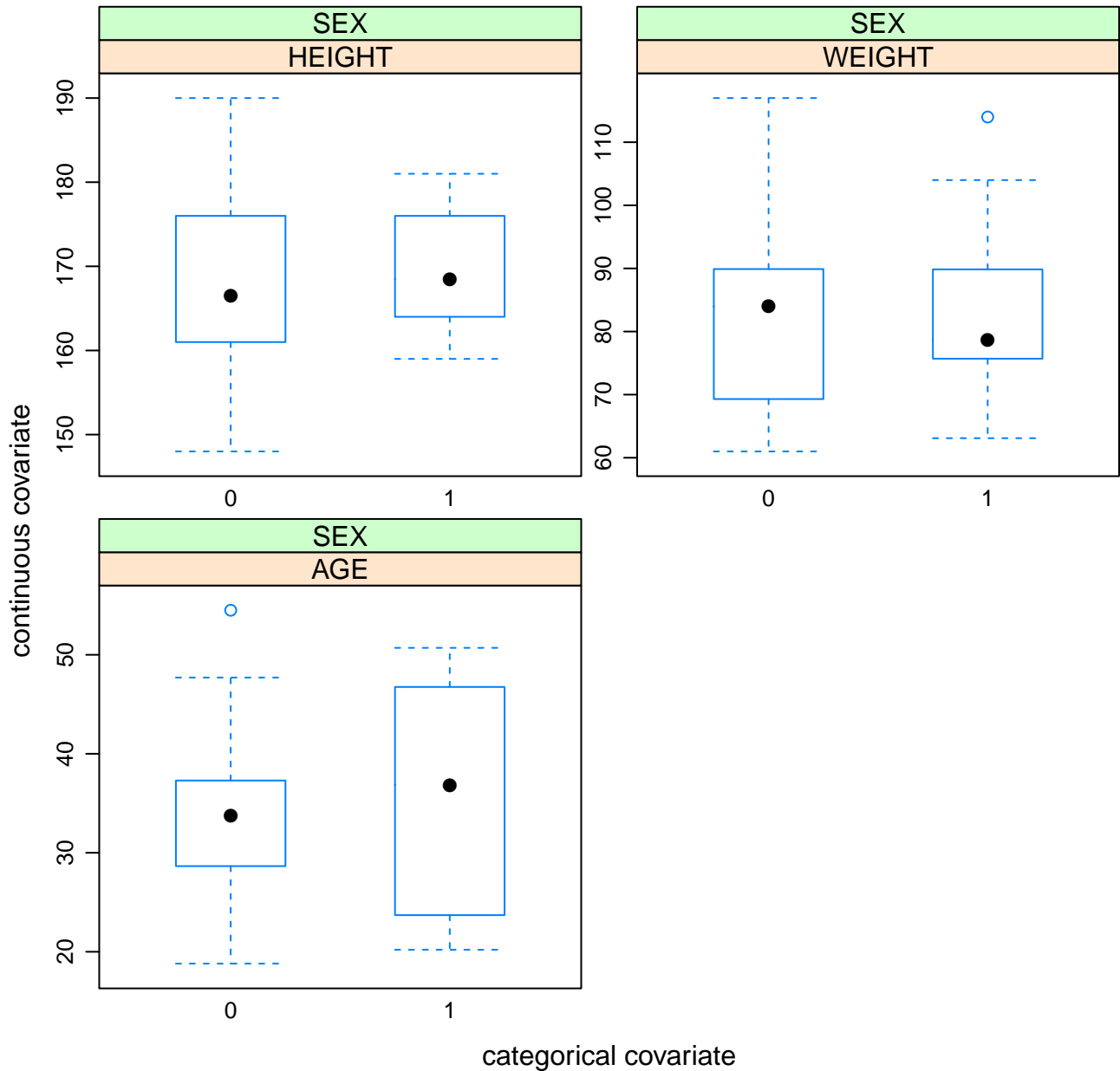
**Model 1002 Boxplots of Residuals for male data**



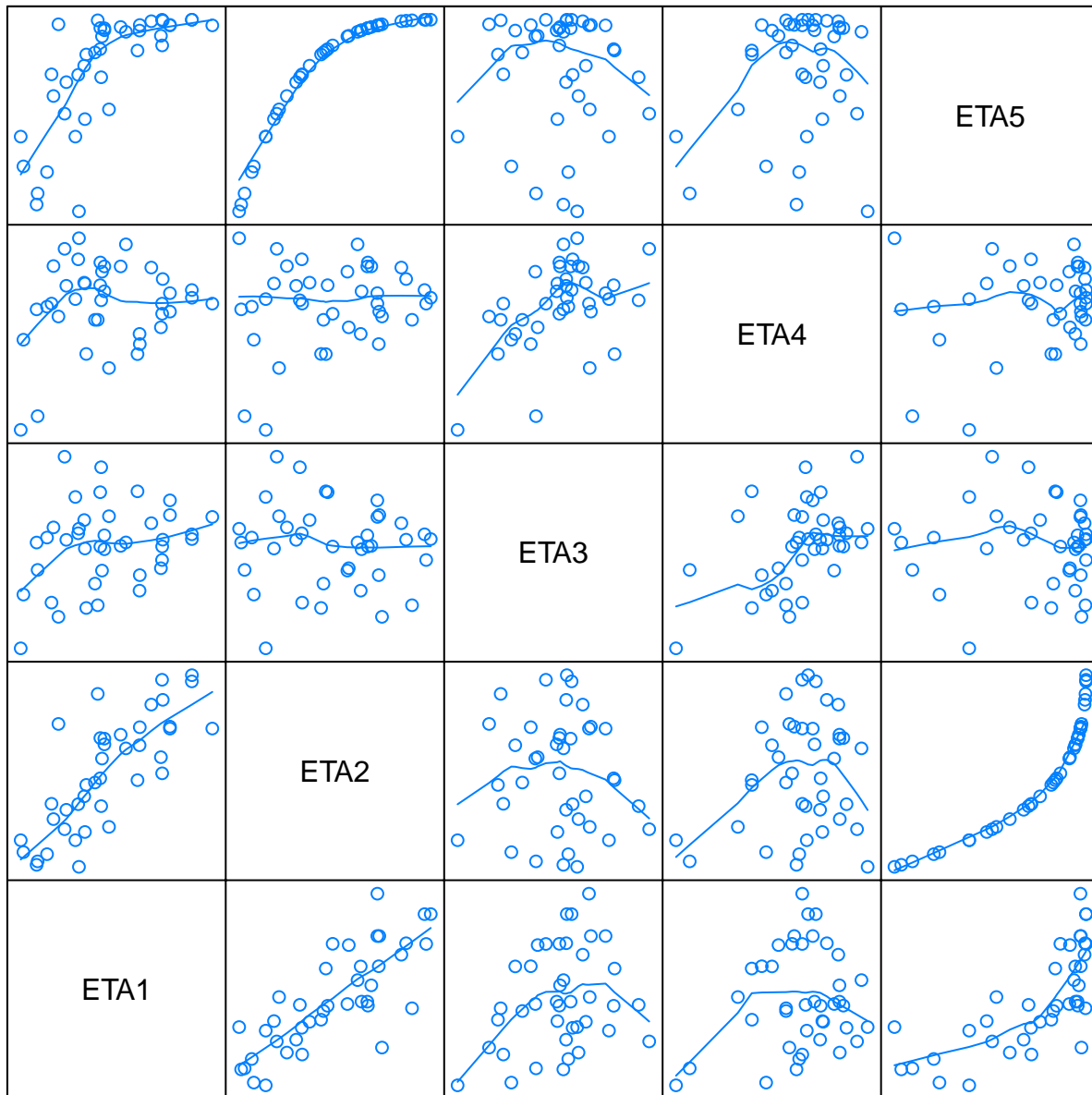
# Covariate Scatterplots



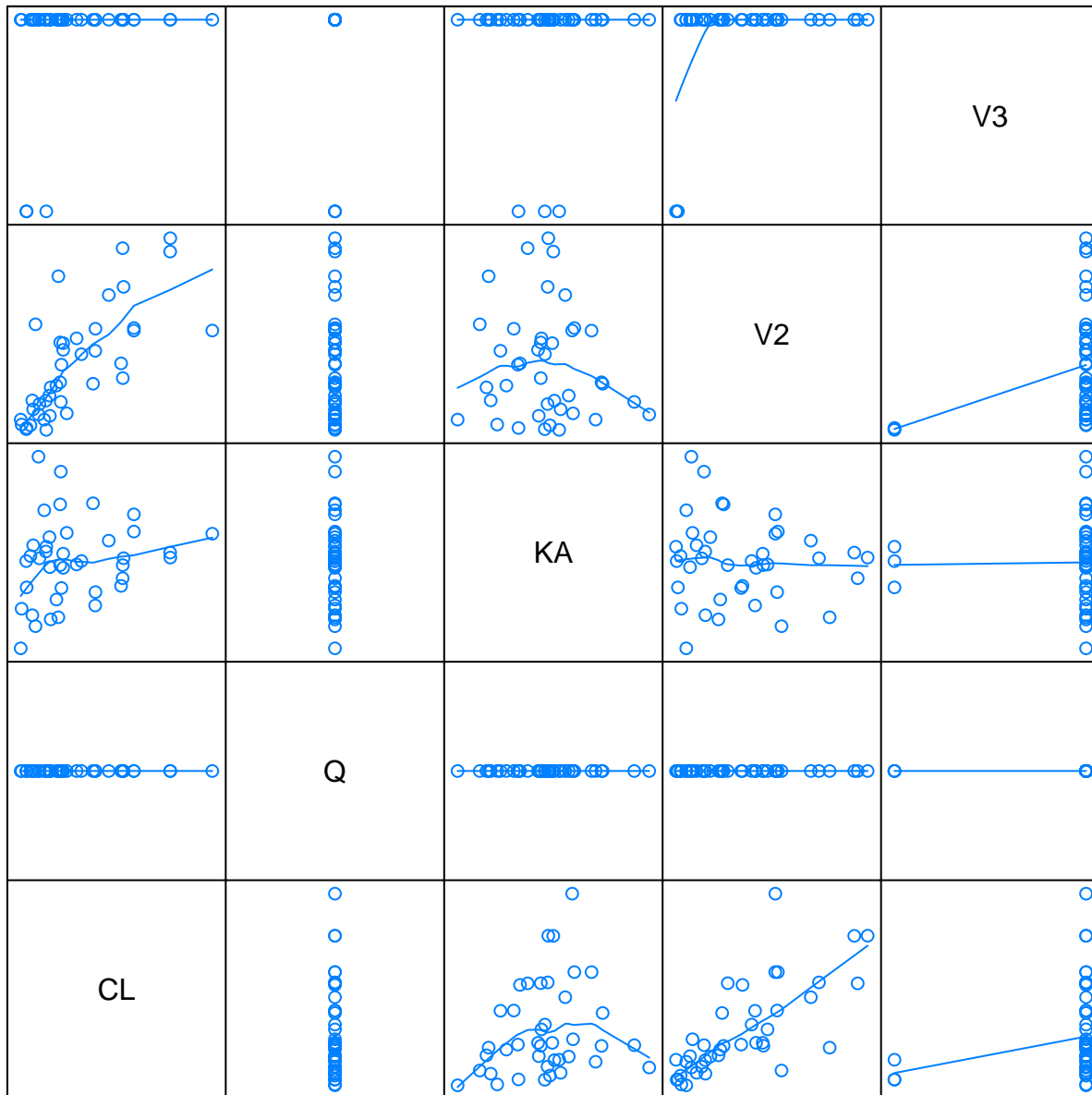
# Continuous Covariates vs. Categorical Covariates



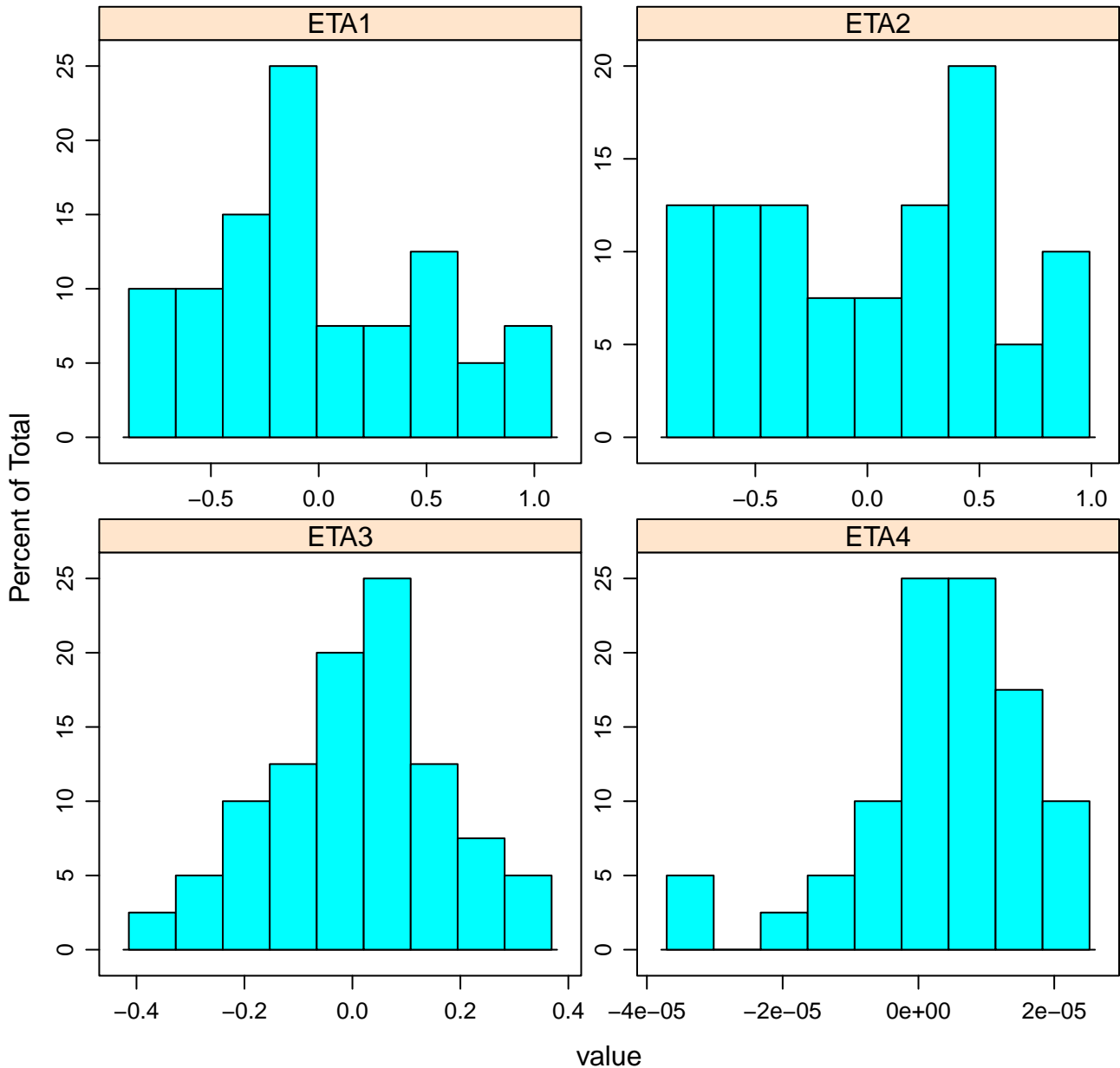
# ETA Scatterplots



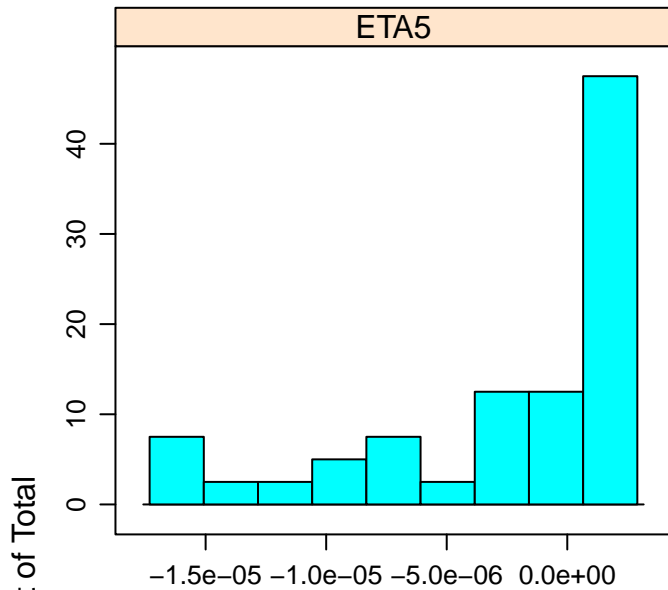
# Parameter Scatterplots



# Histograms of Etas



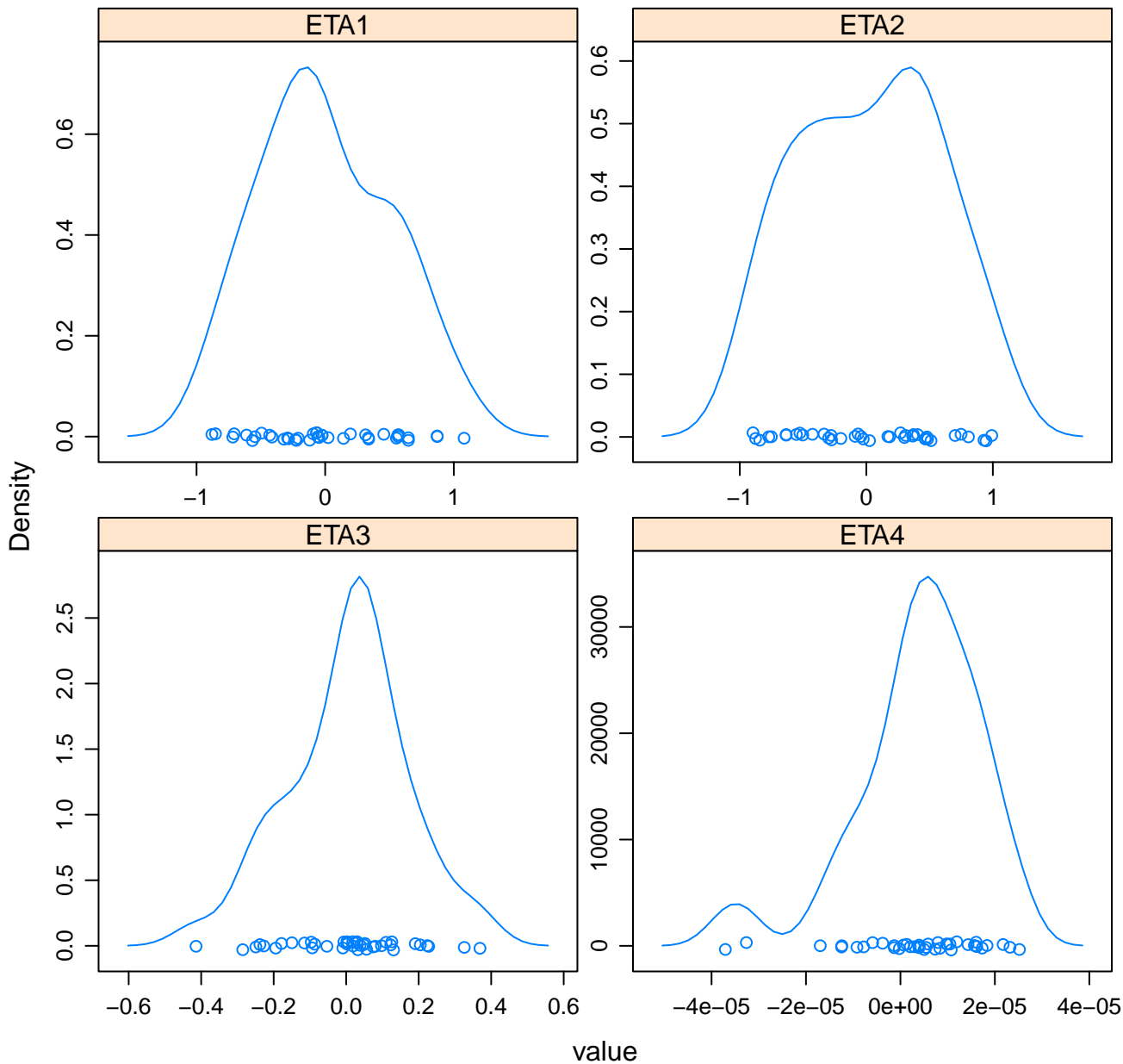
# Histograms of Etas



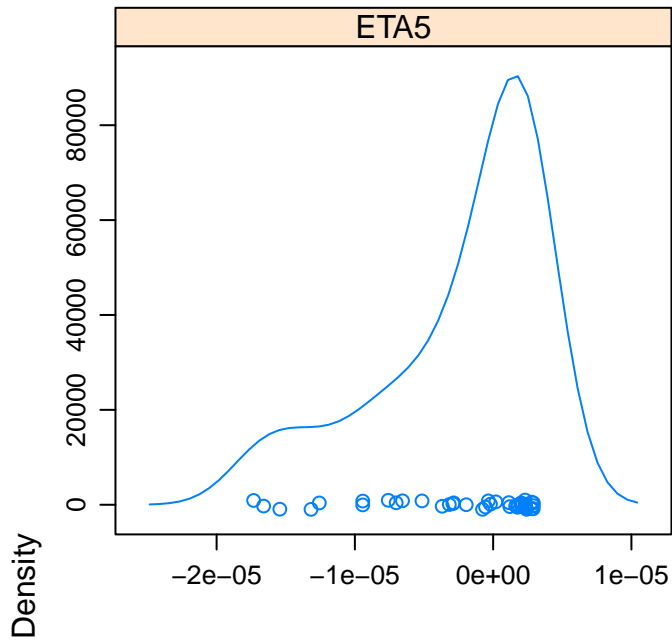
value



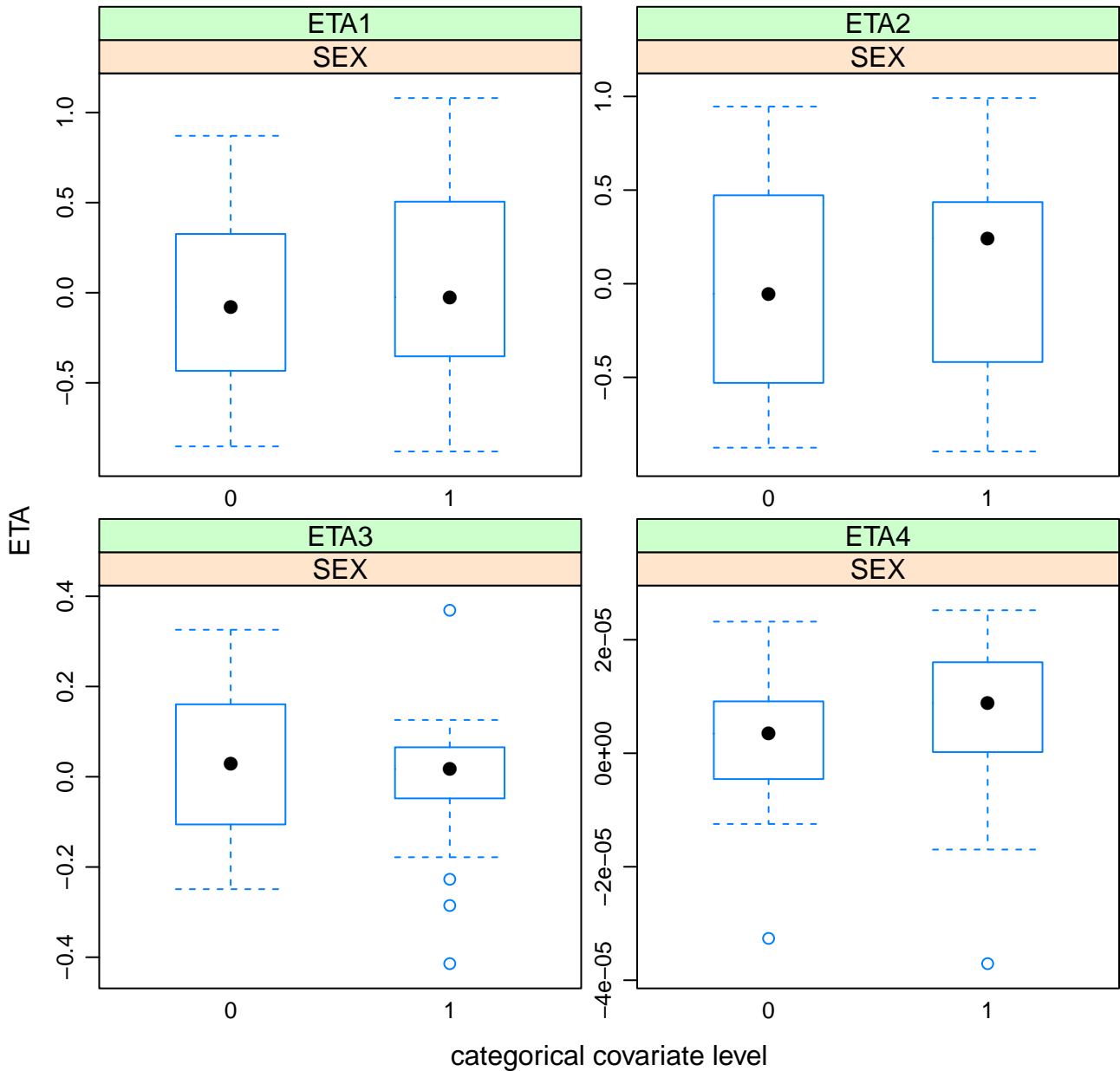
# Density of Etas



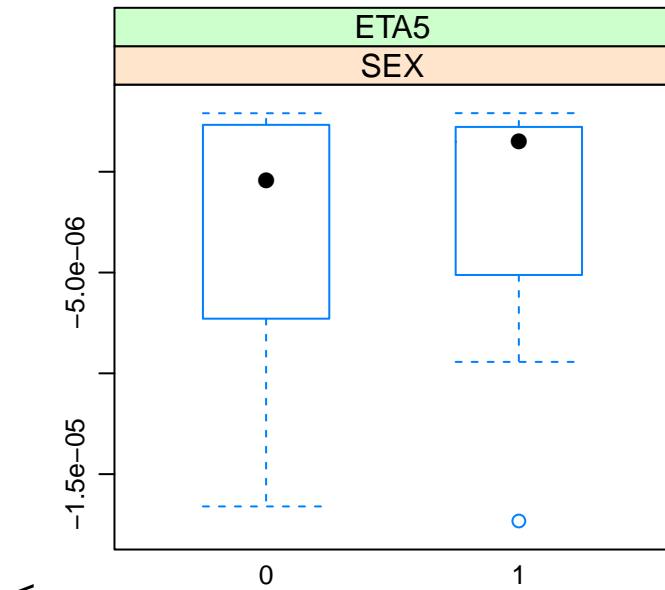
# Density of Etas



# Boxplots of Etas by Categorical Covariate

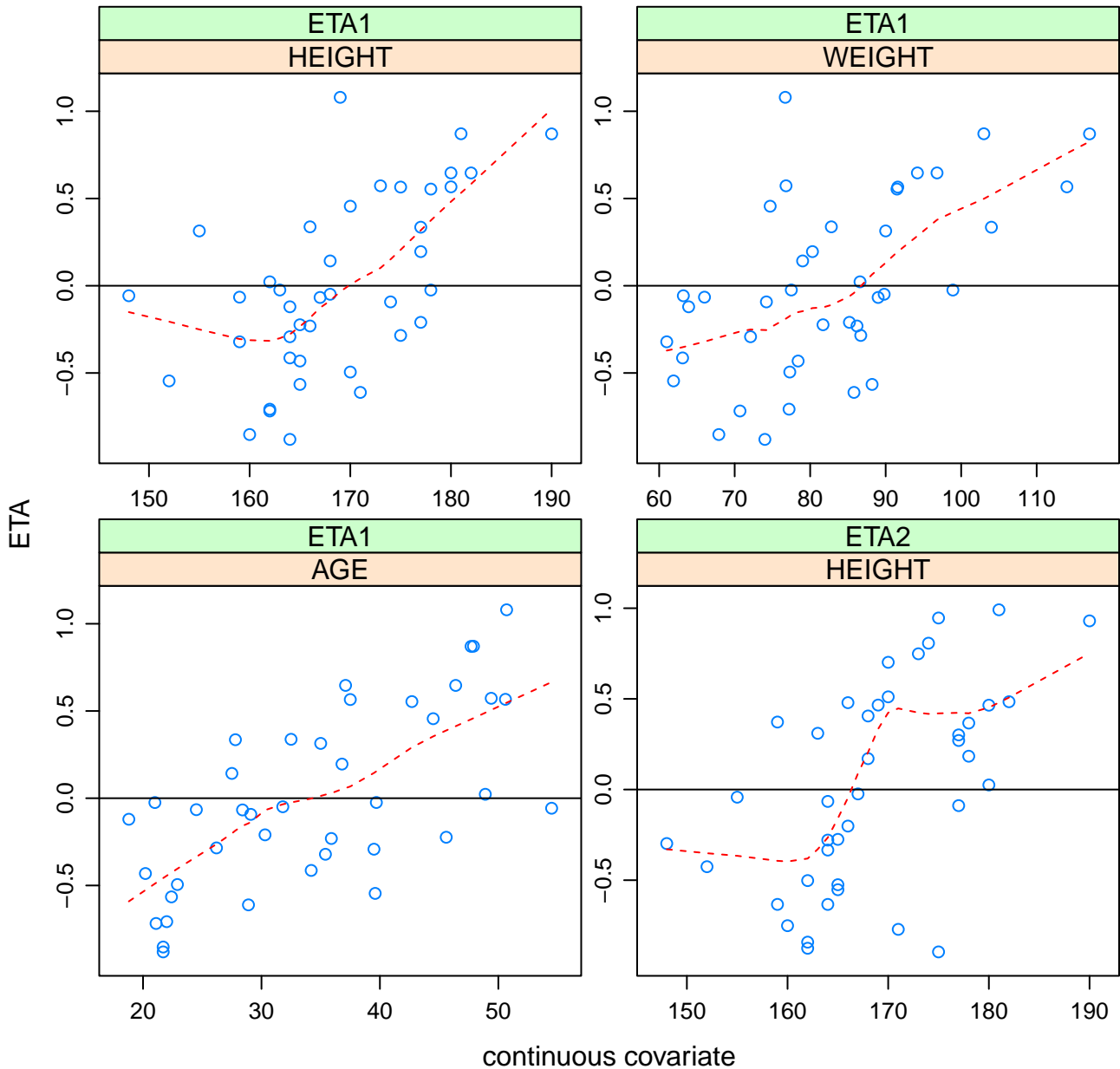


# Boxplots of Etas by Categorical Covariate

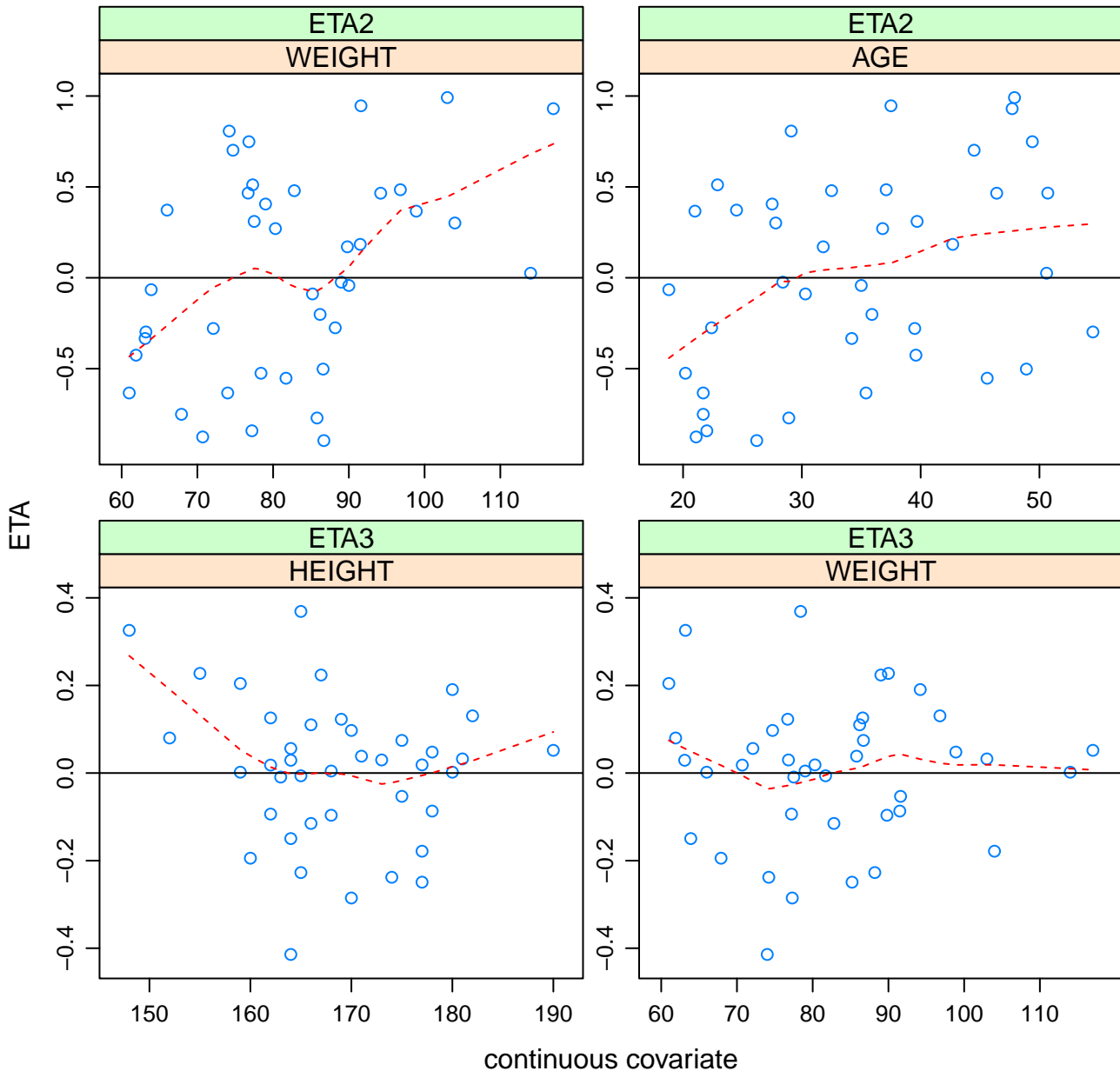


categorical covariate level

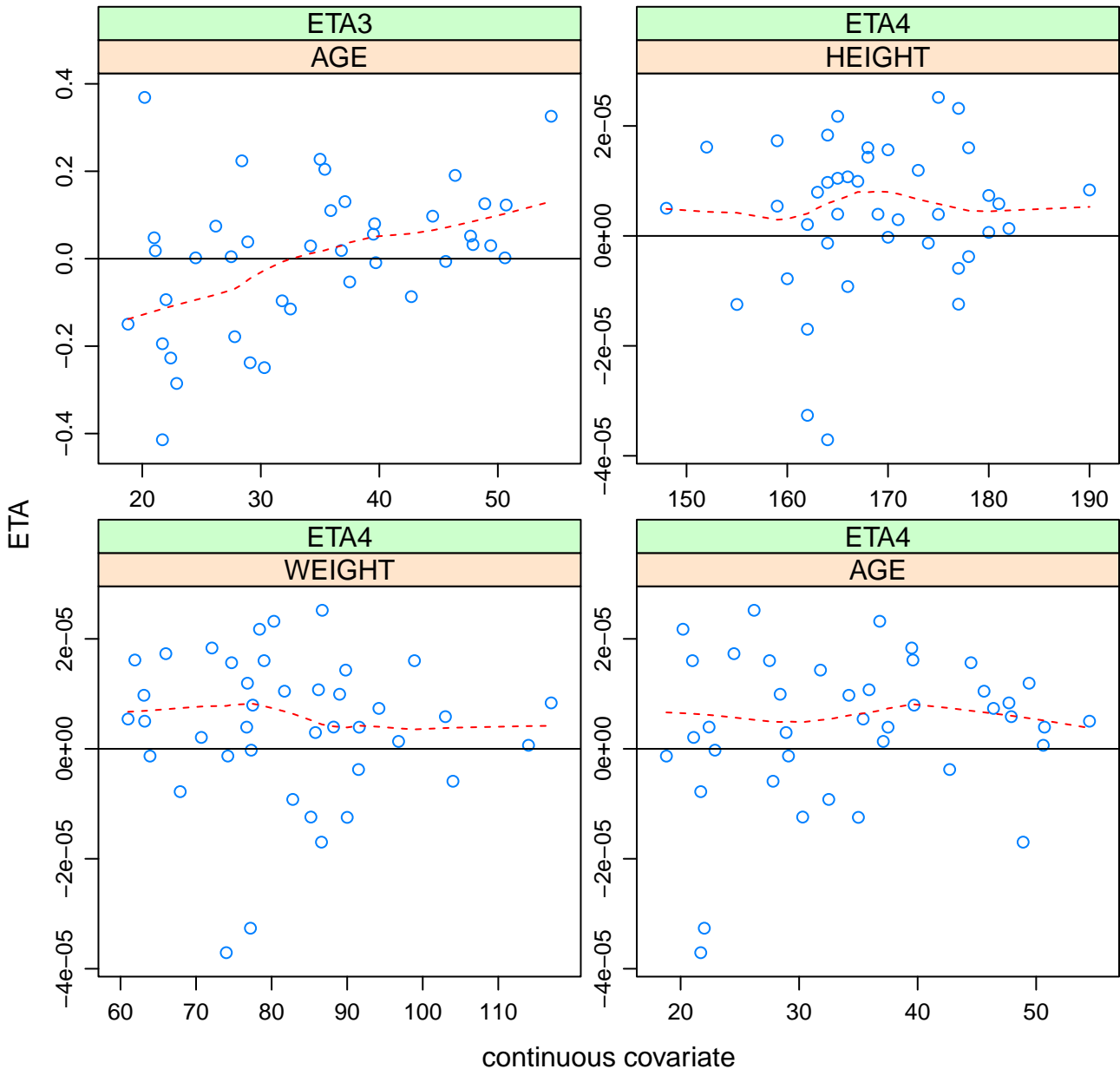
# Etas vs. Continuous Covariates



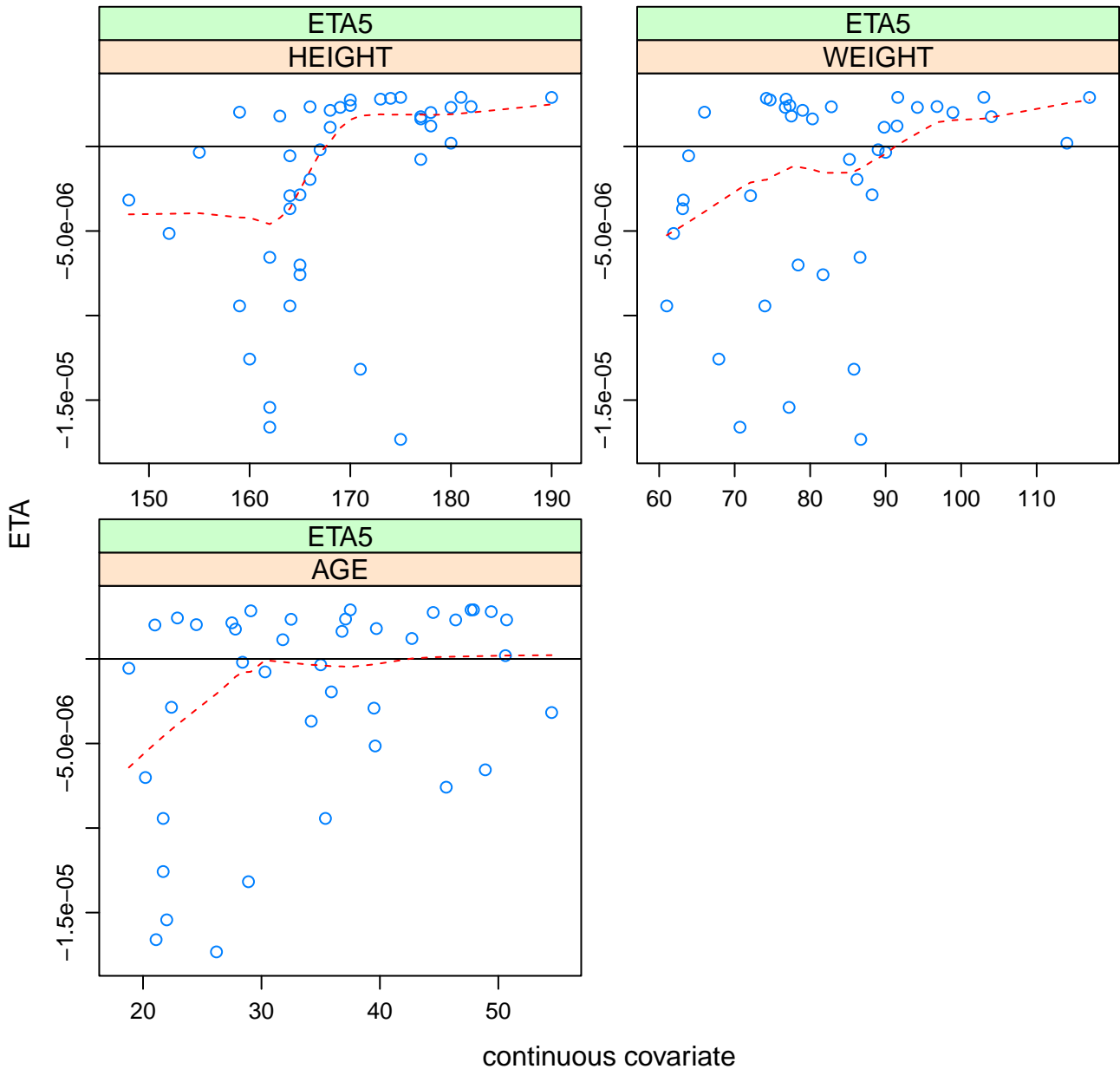
# Etas vs. Continuous Covariates



# Etas vs. Continuous Covariates

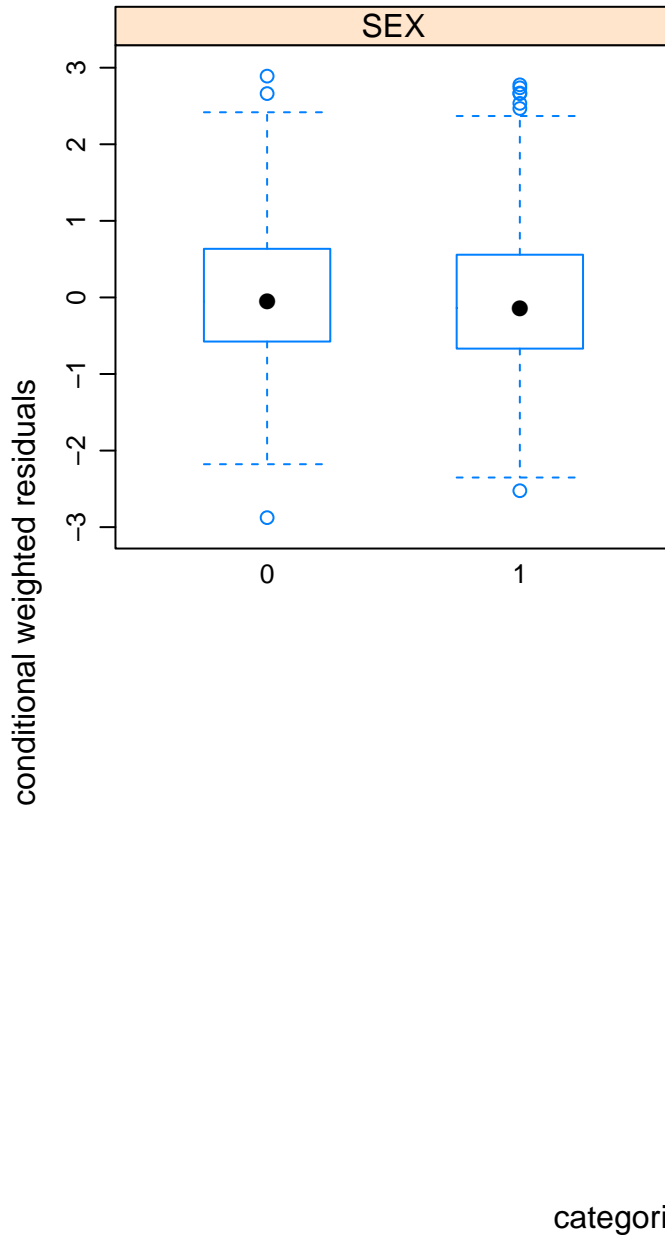


# Etas vs. Continuous Covariates

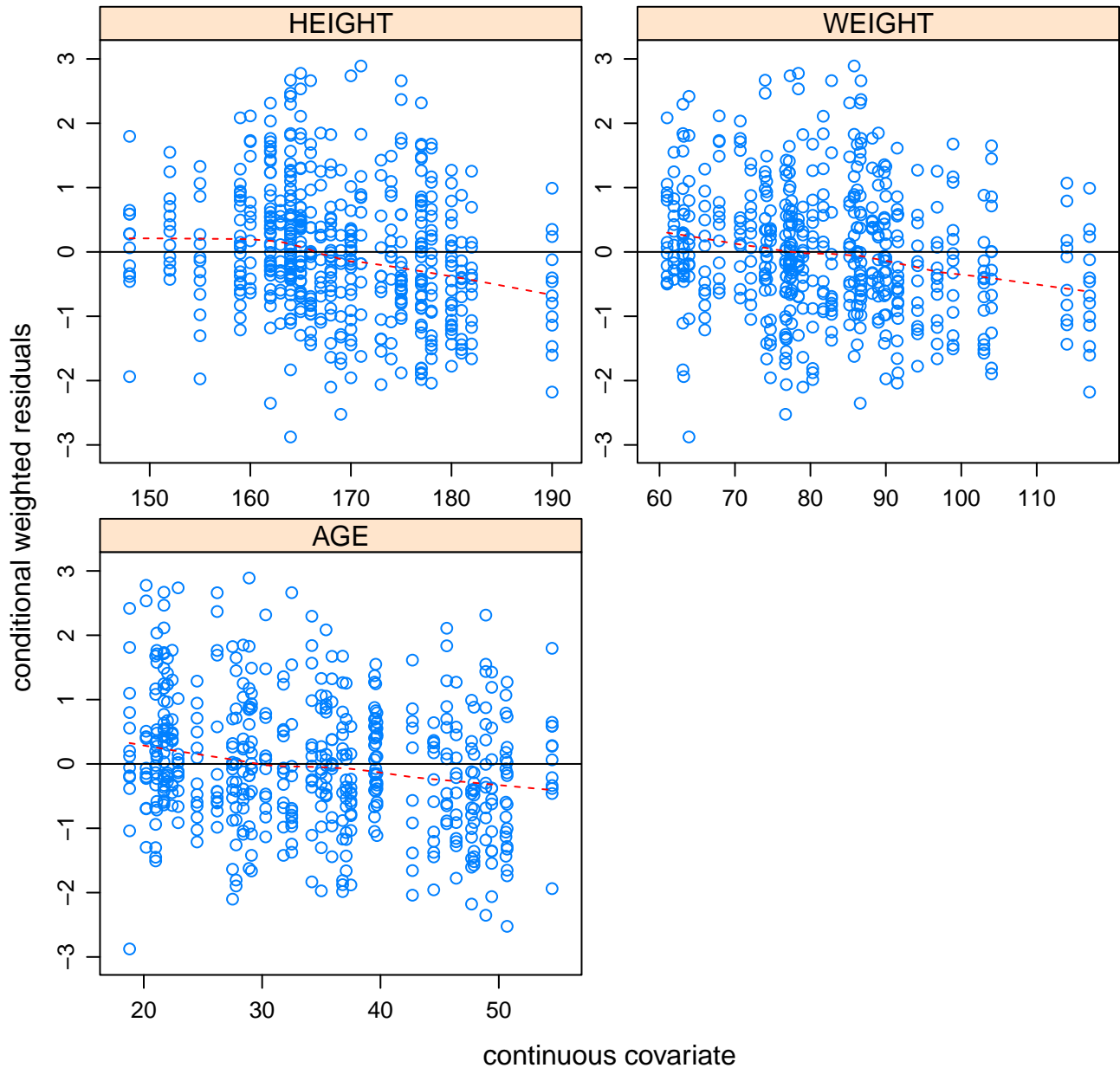




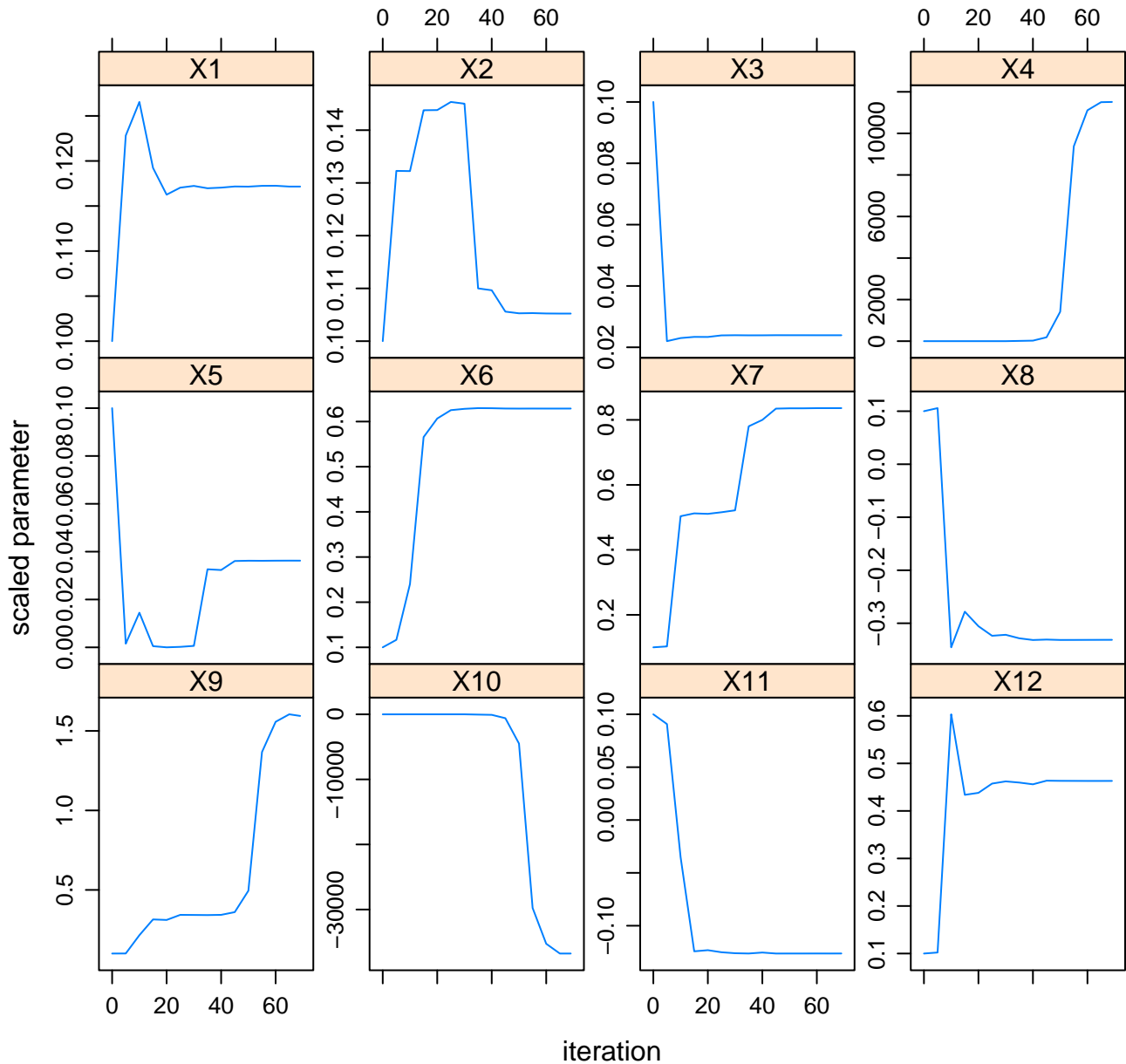
# CWRES vs. Categorical Covariates



# CWRES vs. Continuous Covariates



# Model 1002 parameter search



# Model 1002 gradient search

