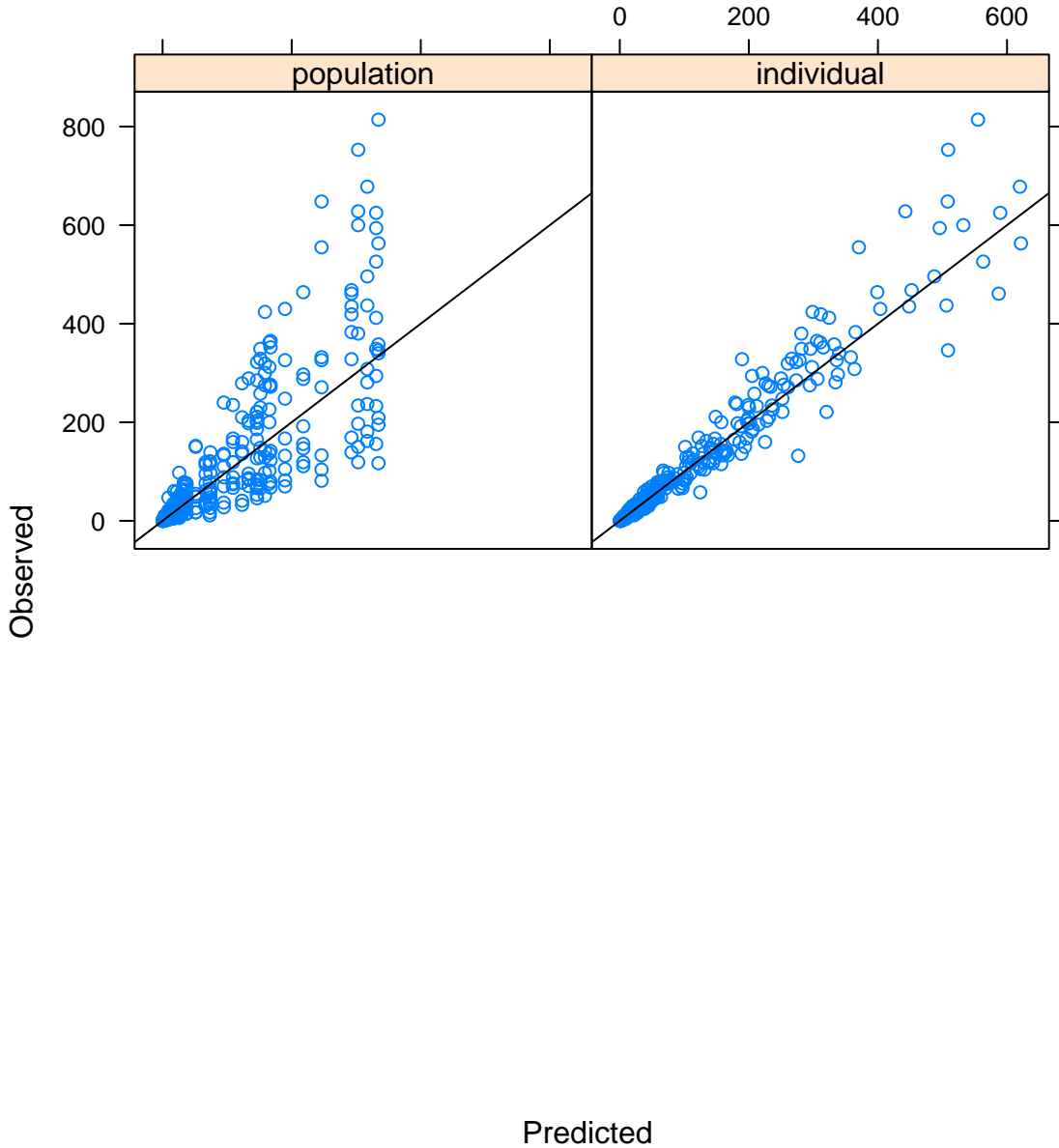


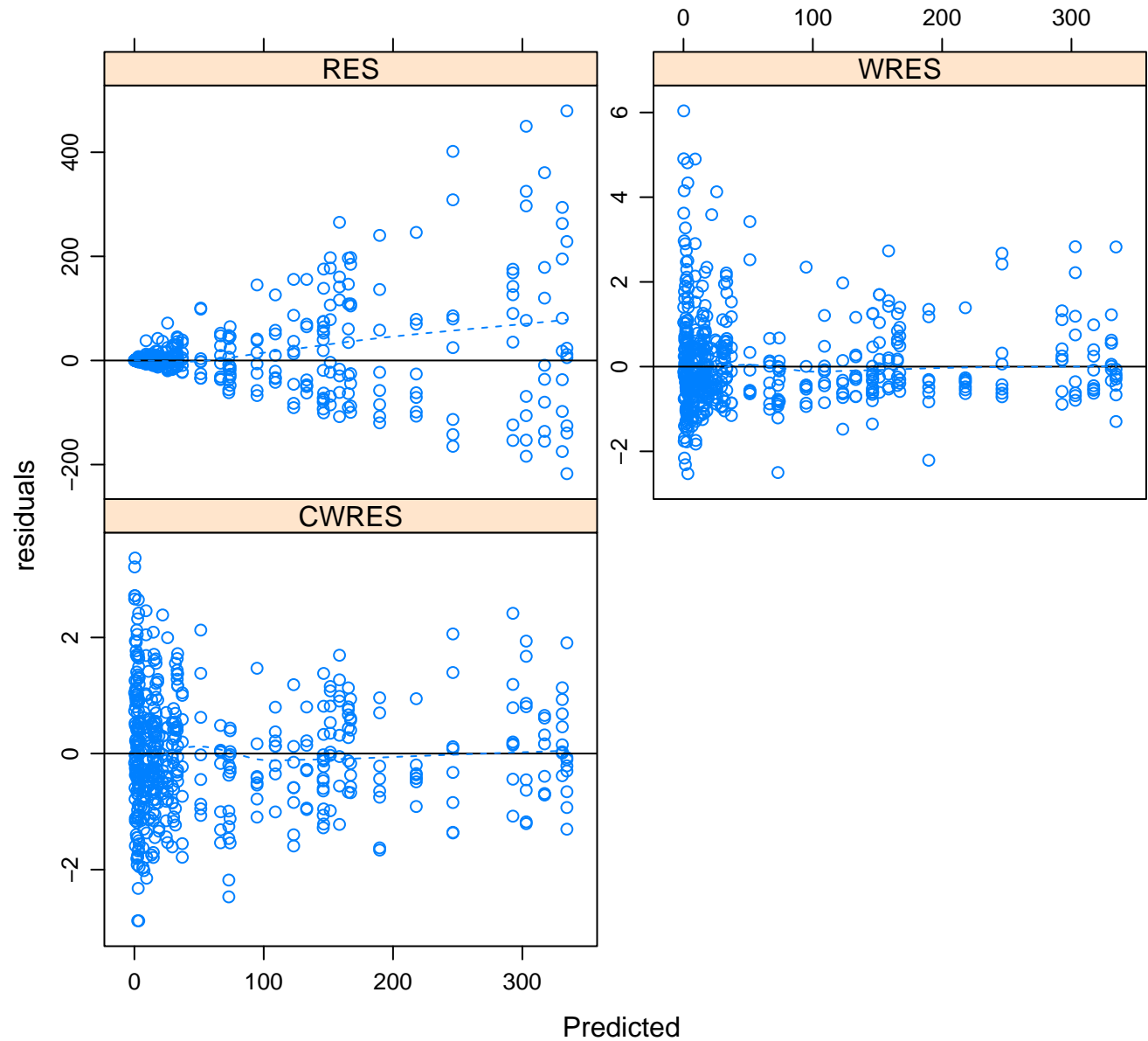
# Model 1004

## Observed vs. Predicted for all data



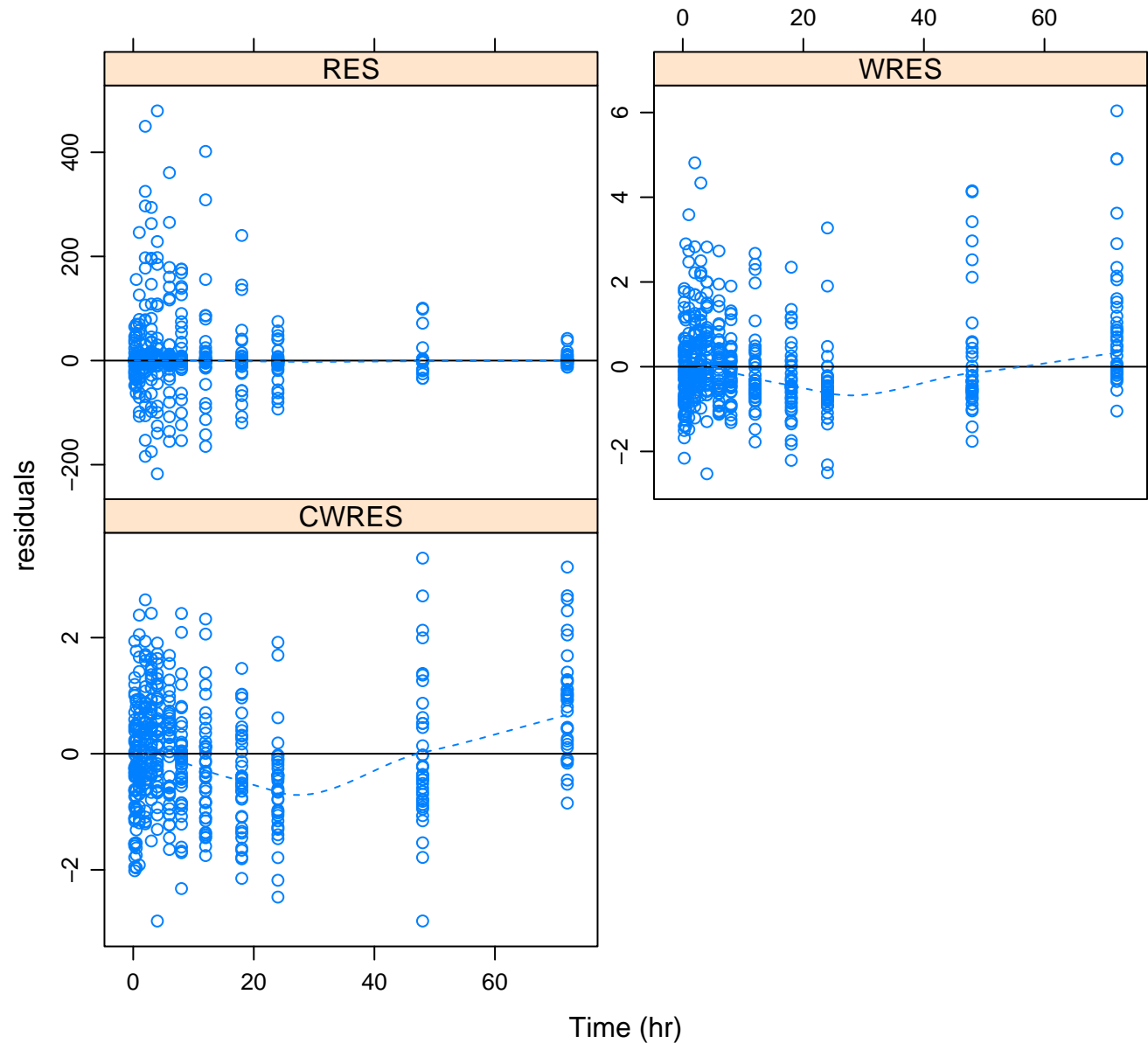
# Model 1004

## Residuals vs. Predicted for all data



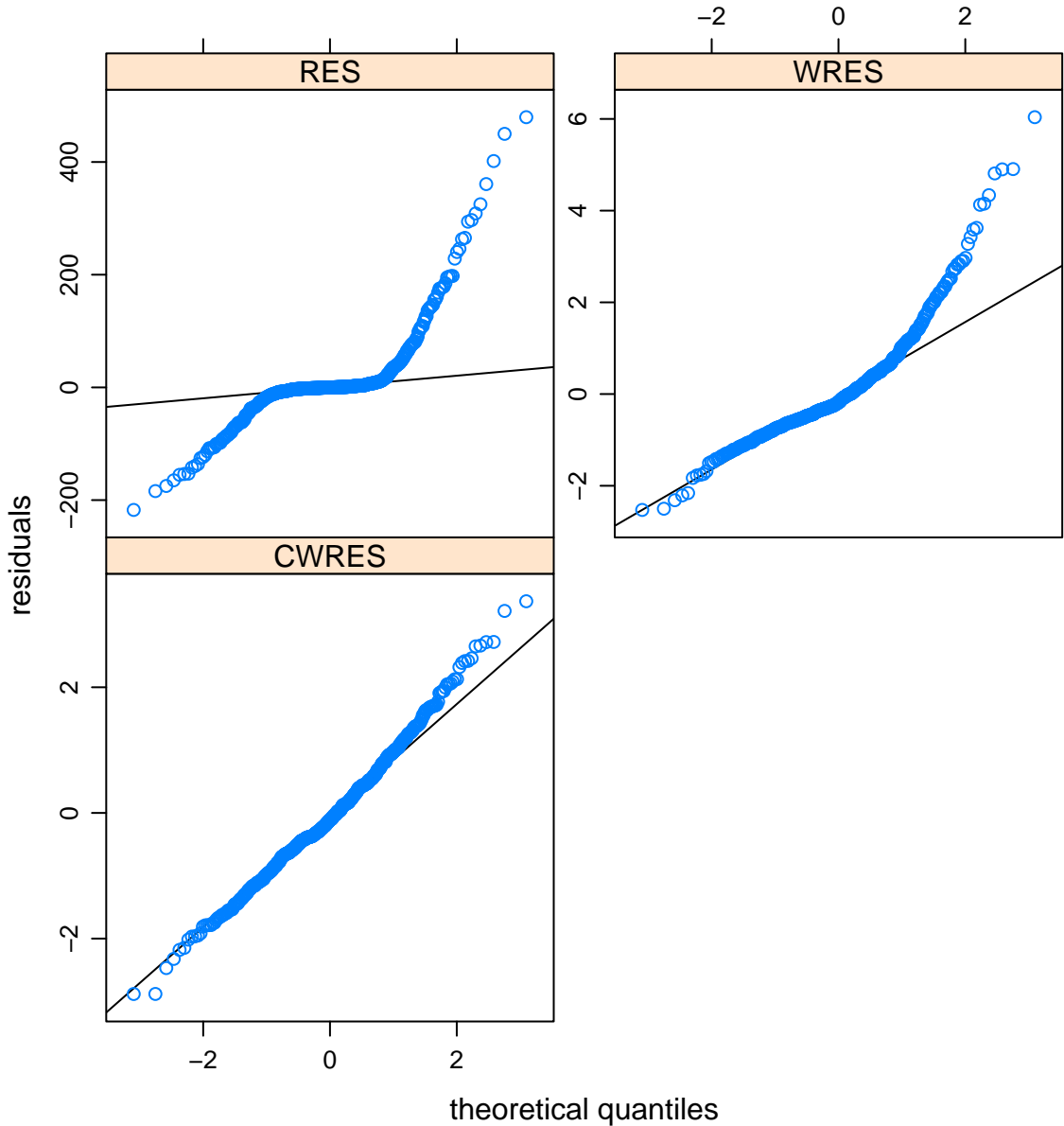
# Model 1004

## Residuals vs. Time for all data

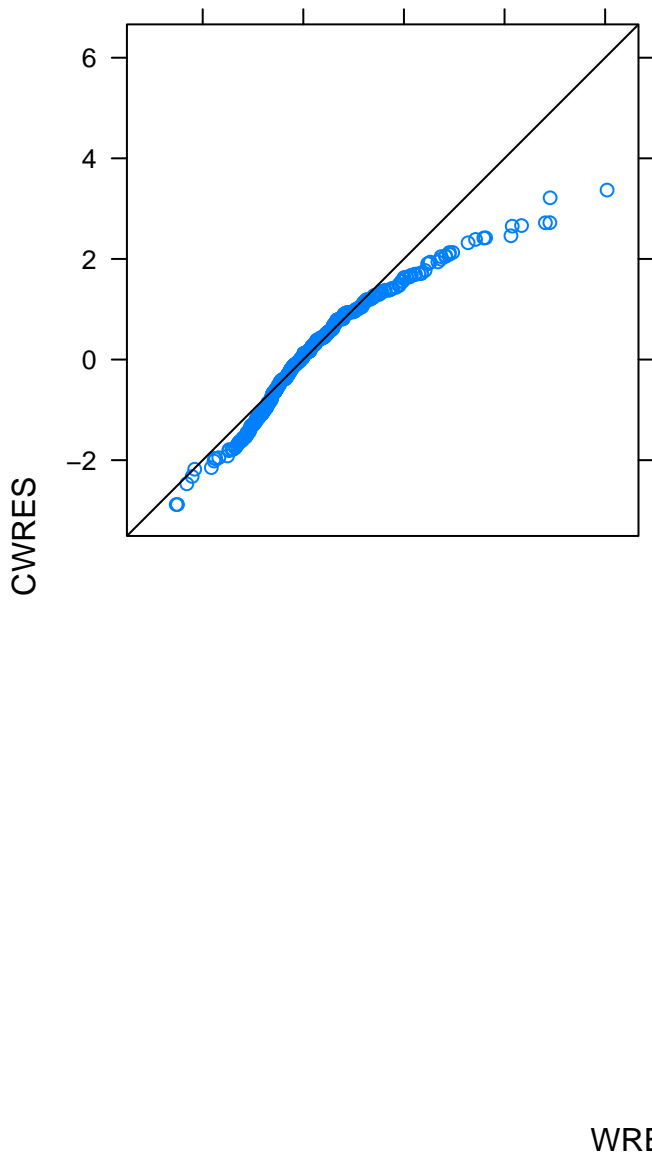


# Model 1004

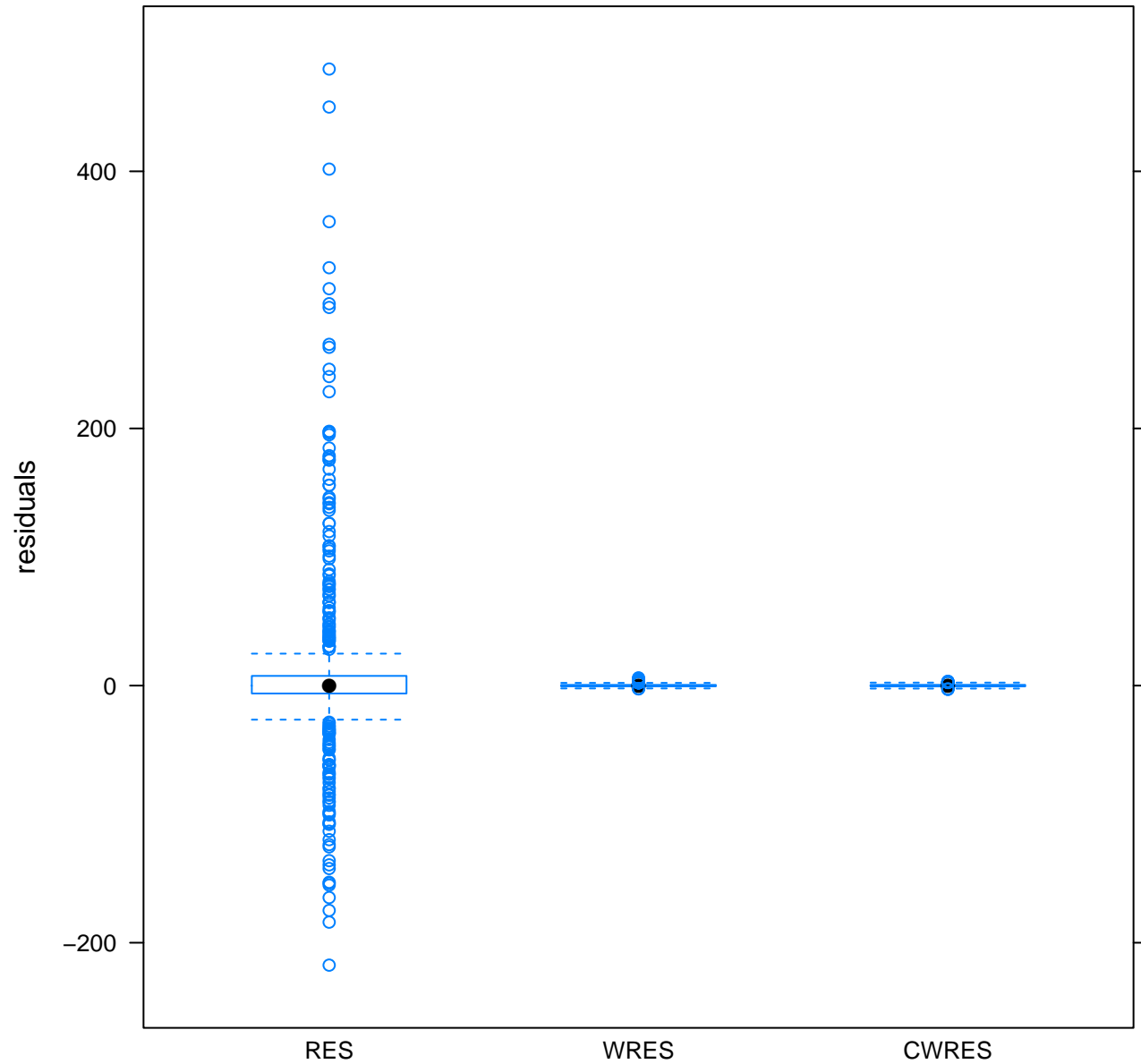
## Normal Q-Q Plot Residuals for all data



**Model 1004**  
**Q-Q Plot of CWRES vs. WRES for all data**

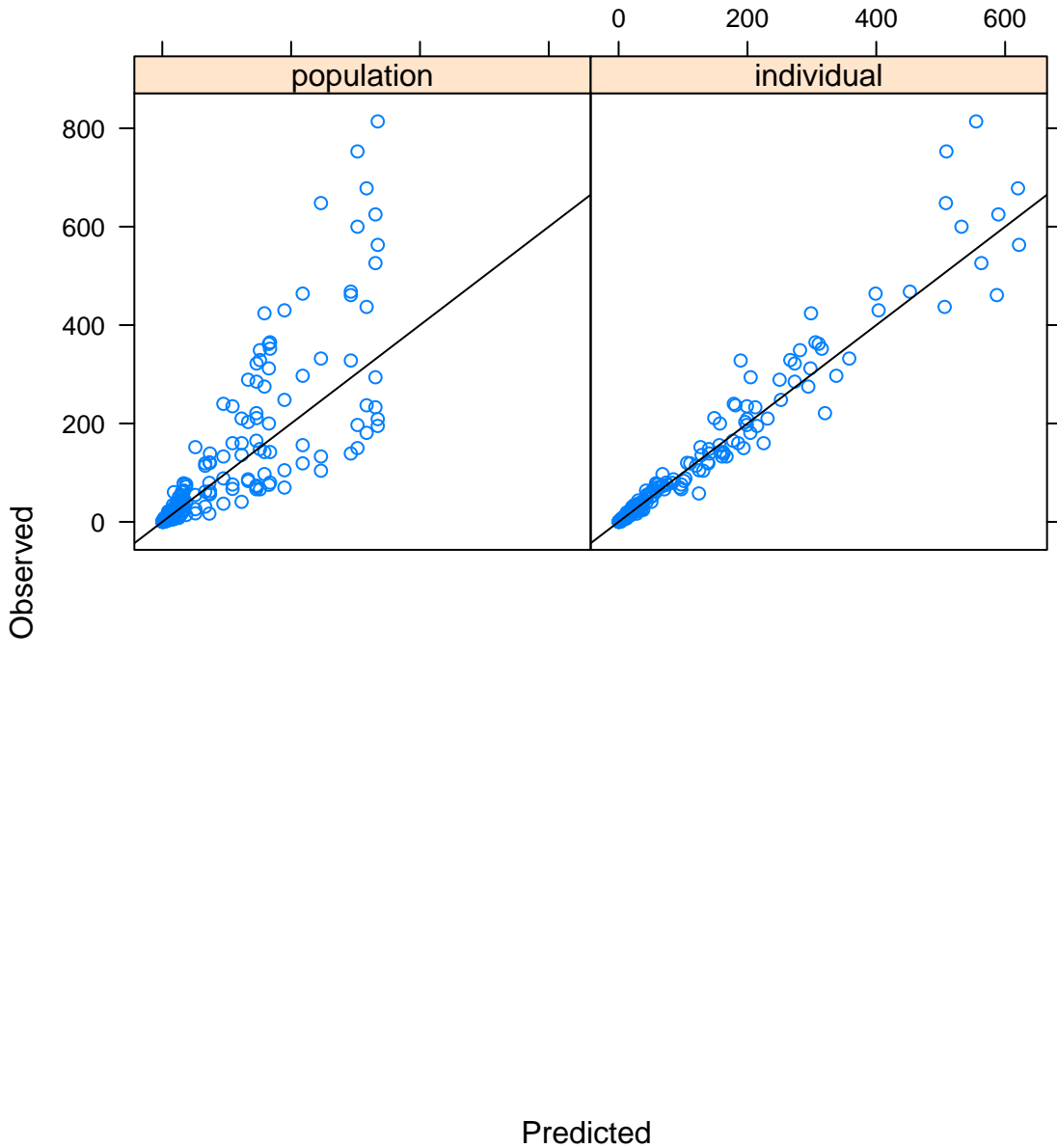


**Model 1004 Boxplots of Residuals for all data**



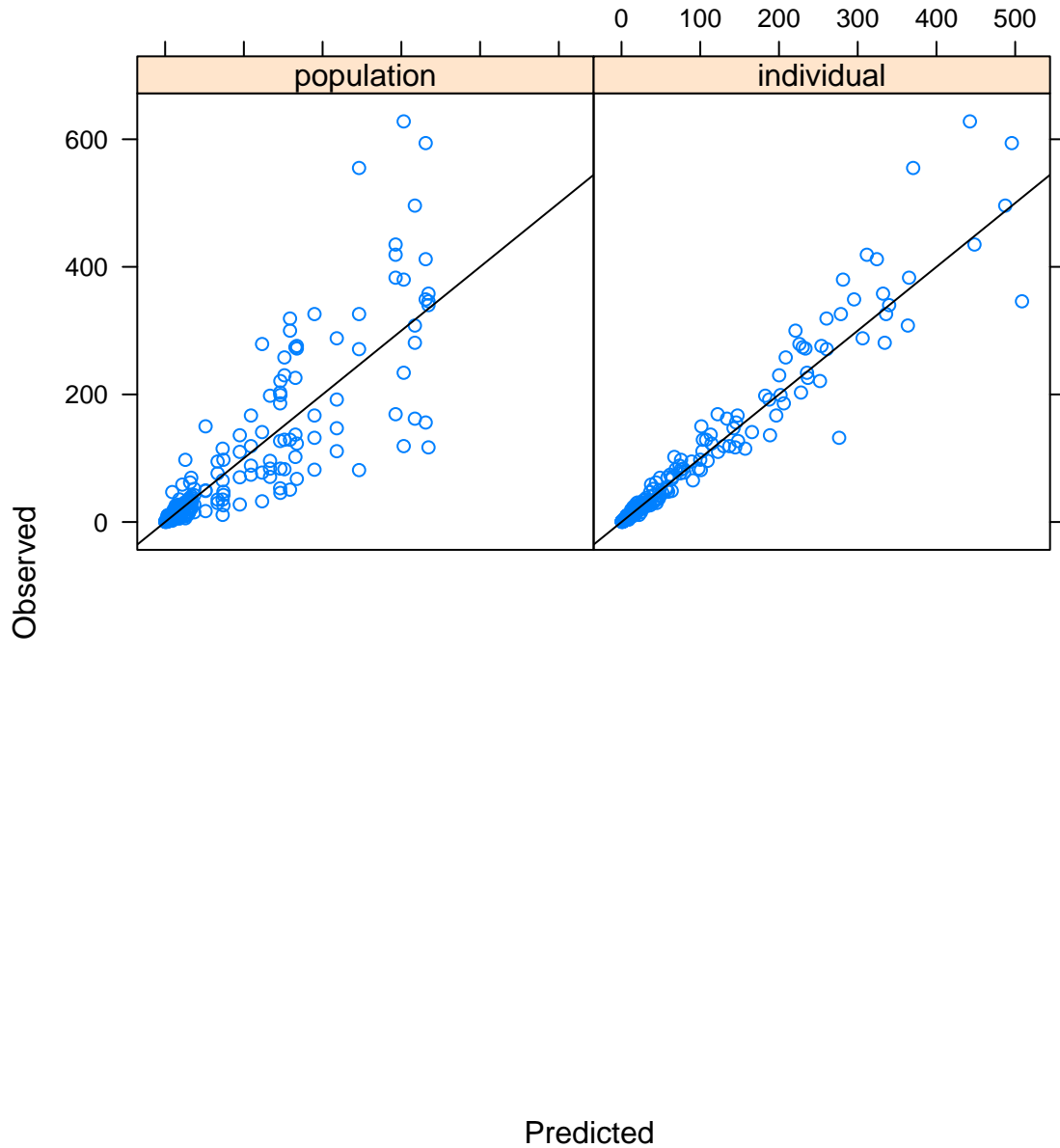
# Model 1004

## Observed vs. Predicted for female data



# Model 1004

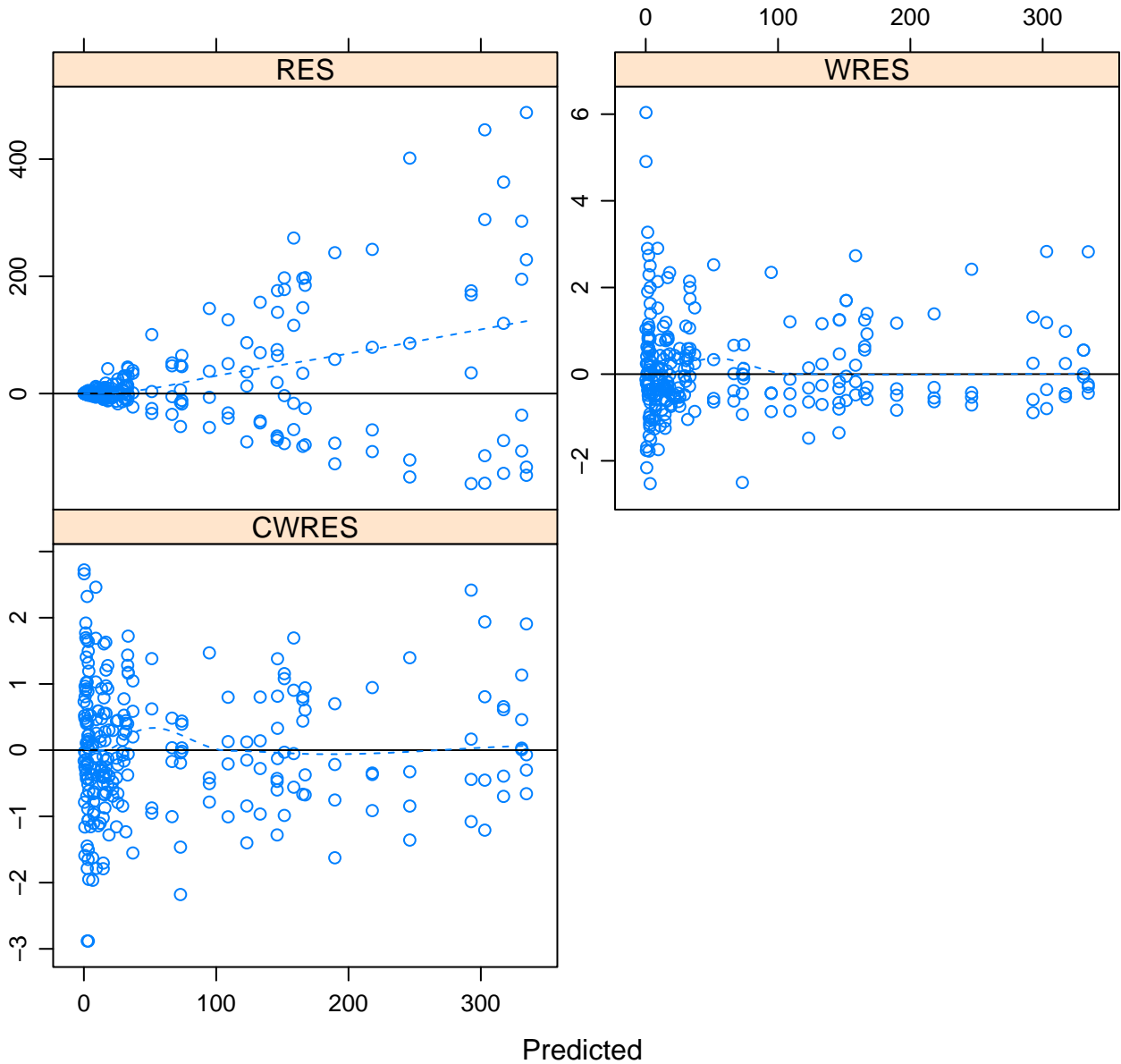
## Observed vs. Predicted for male data



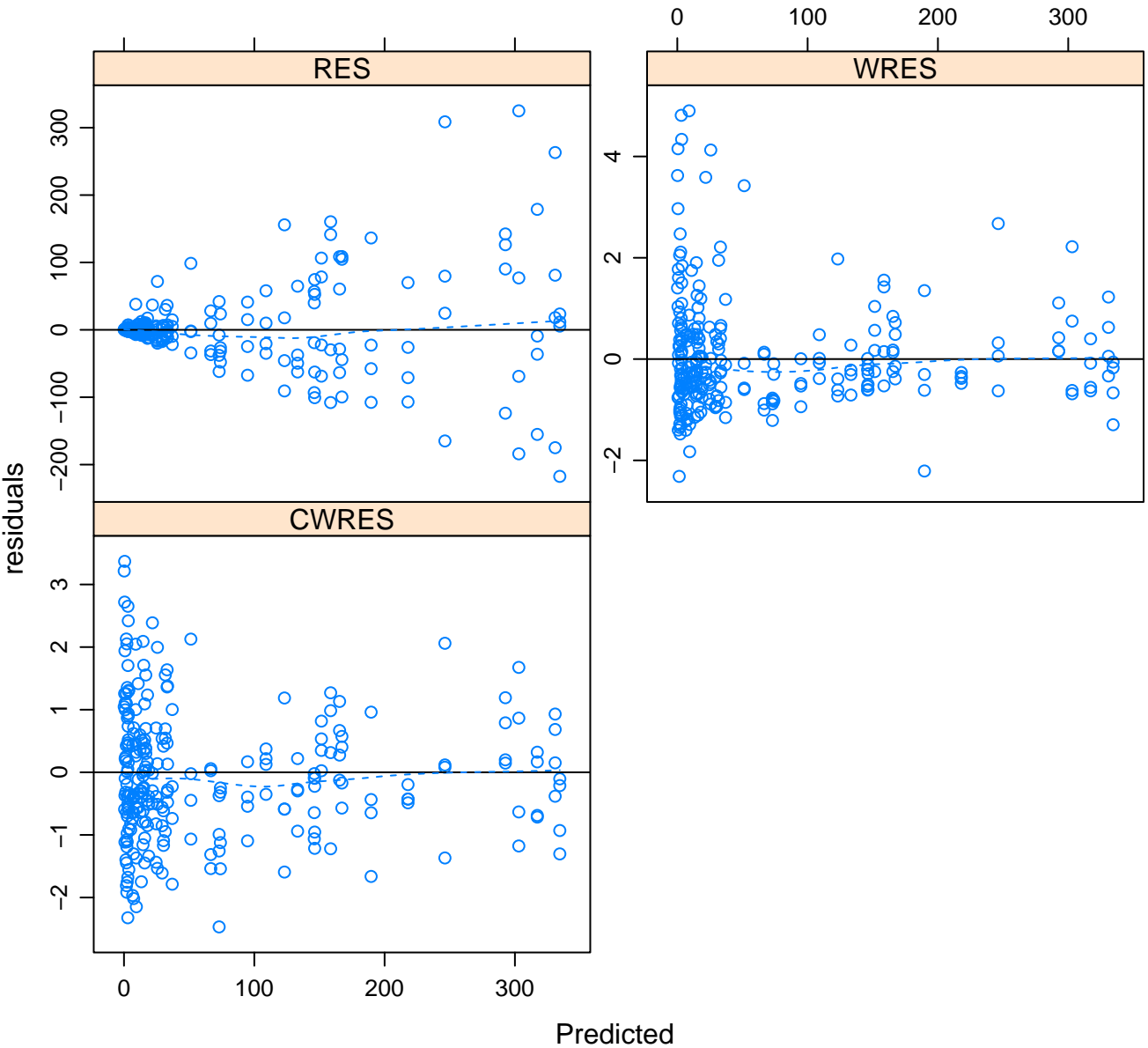


# Model 1004

## Residuals vs. Predicted for female data

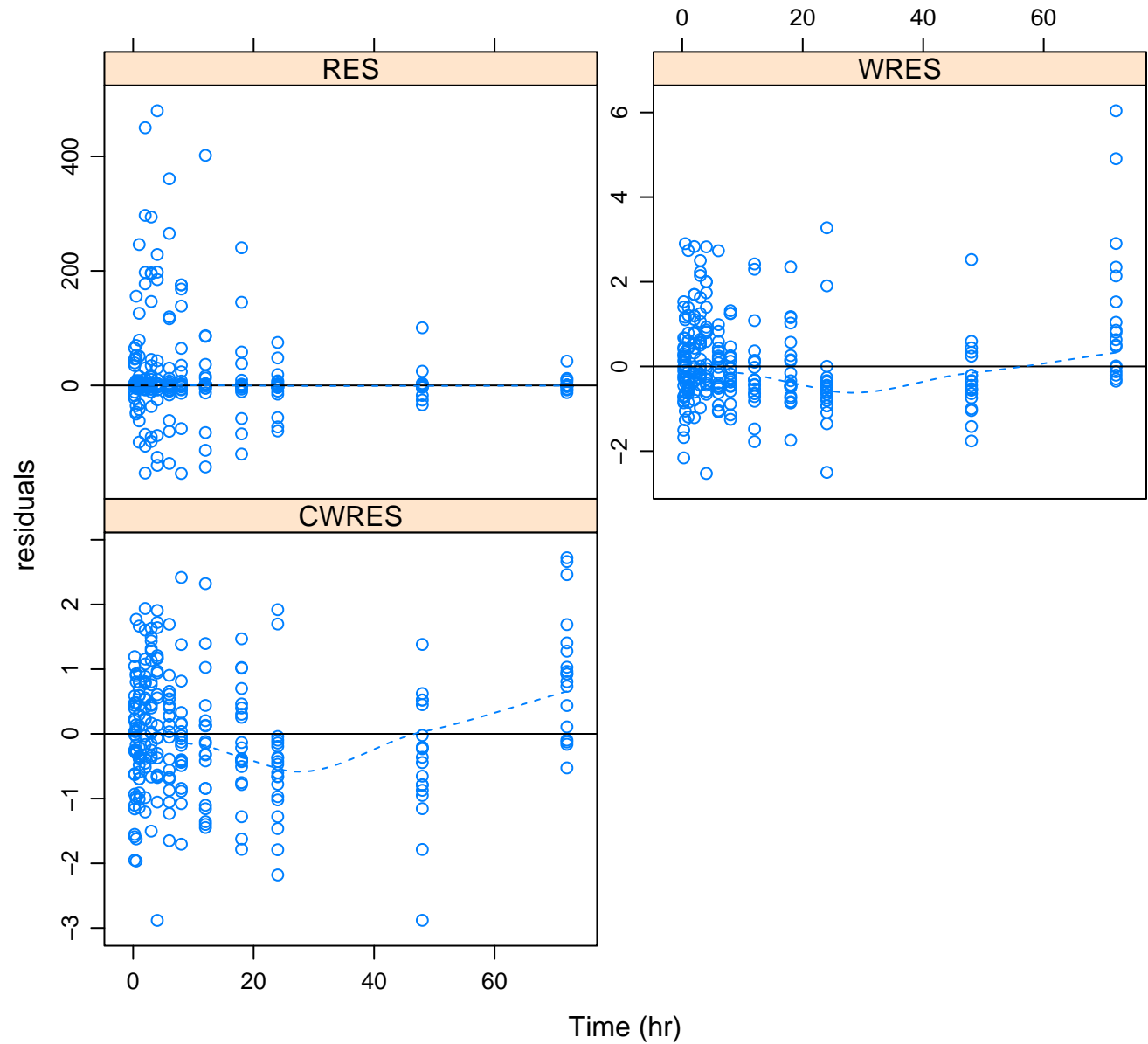


**Model 1004**  
**Residuals vs. Predicted for male data**



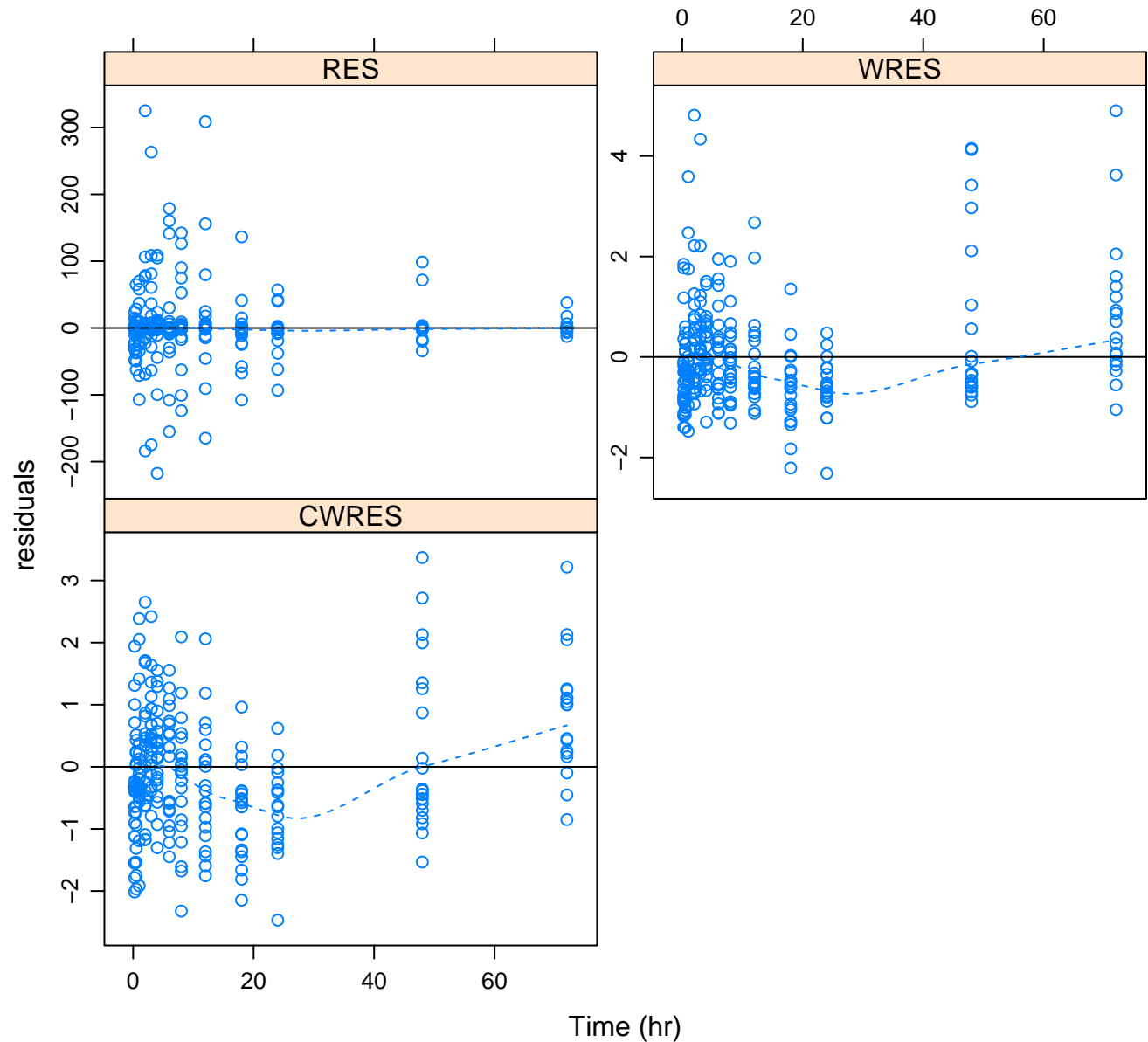
# Model 1004

## Residuals vs. Time for female data



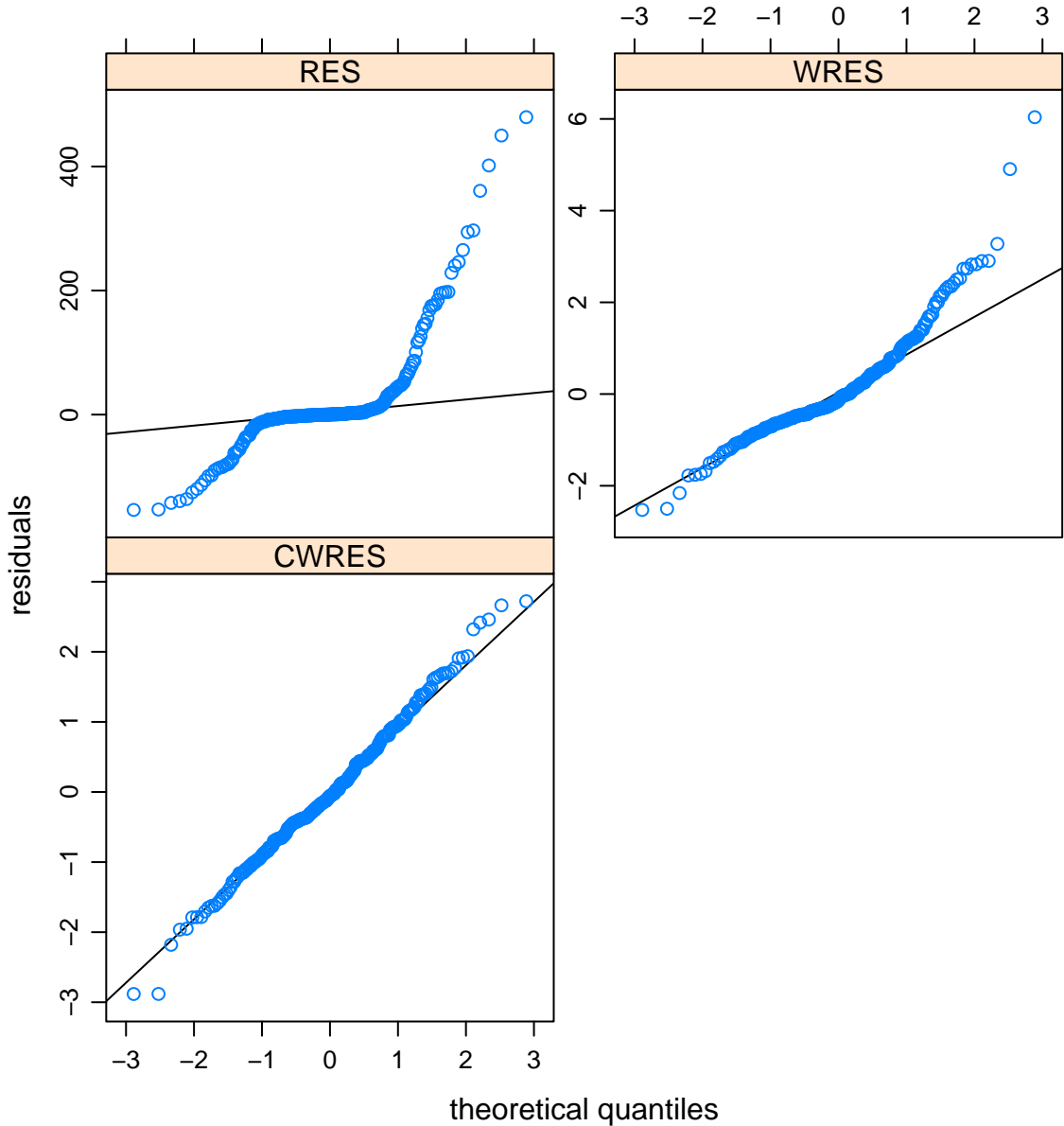
# Model 1004

## Residuals vs. Time for male data



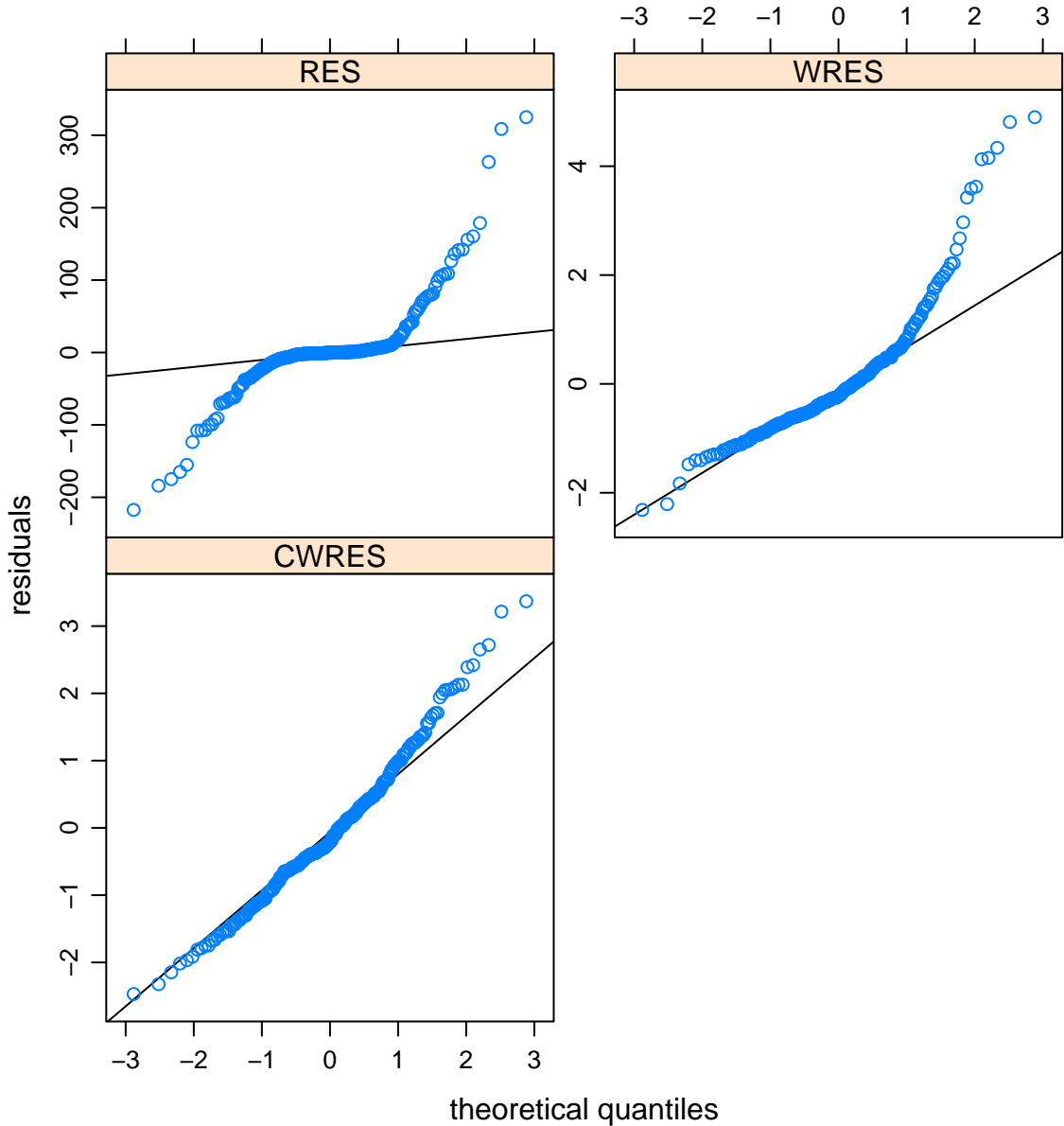
# Model 1004

## Normal Q-Q Plot Residuals for female data

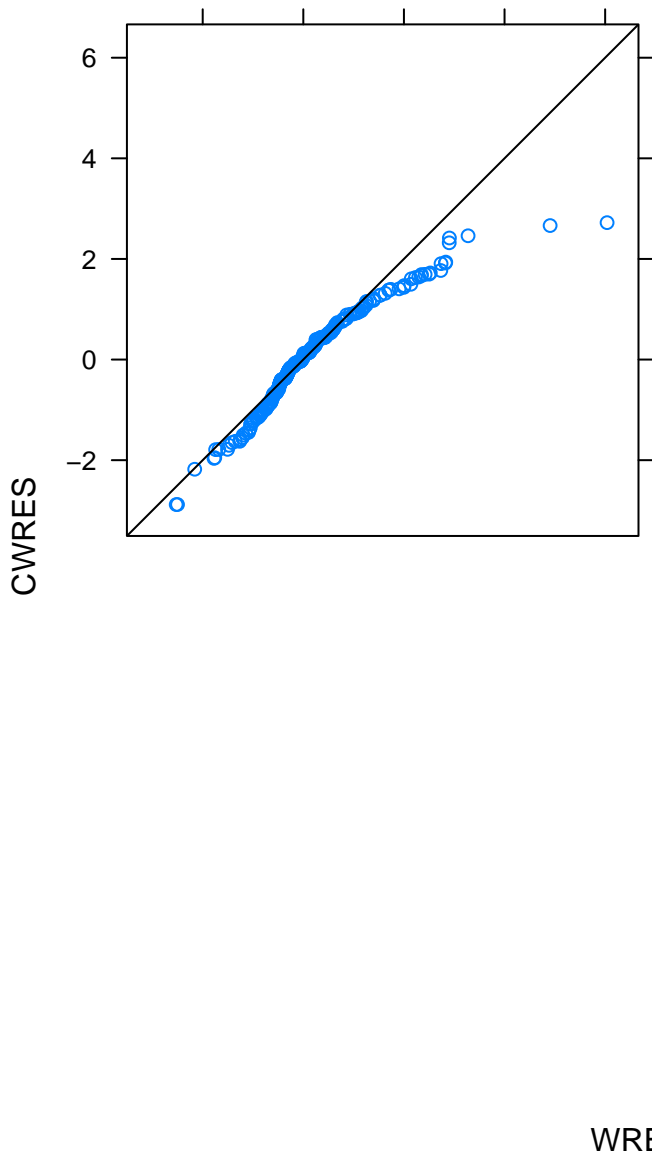


# Model 1004

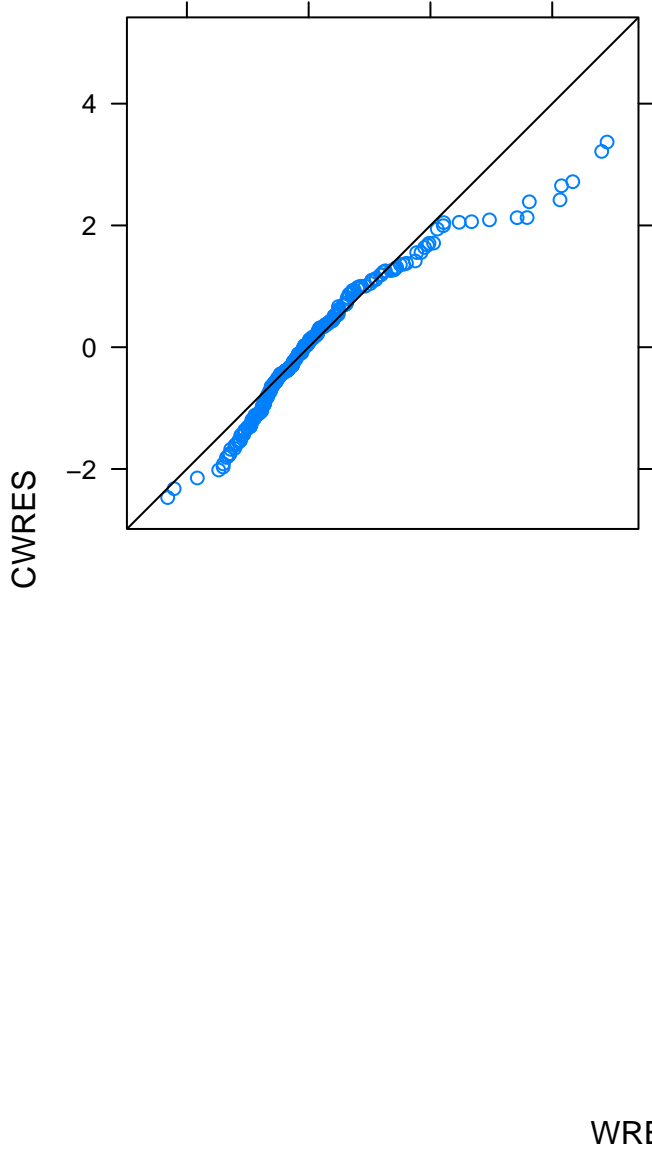
## Normal Q-Q Plot Residuals for male data



**Model 1004**  
**Q-Q Plot of CWRES vs. WRES for female data**

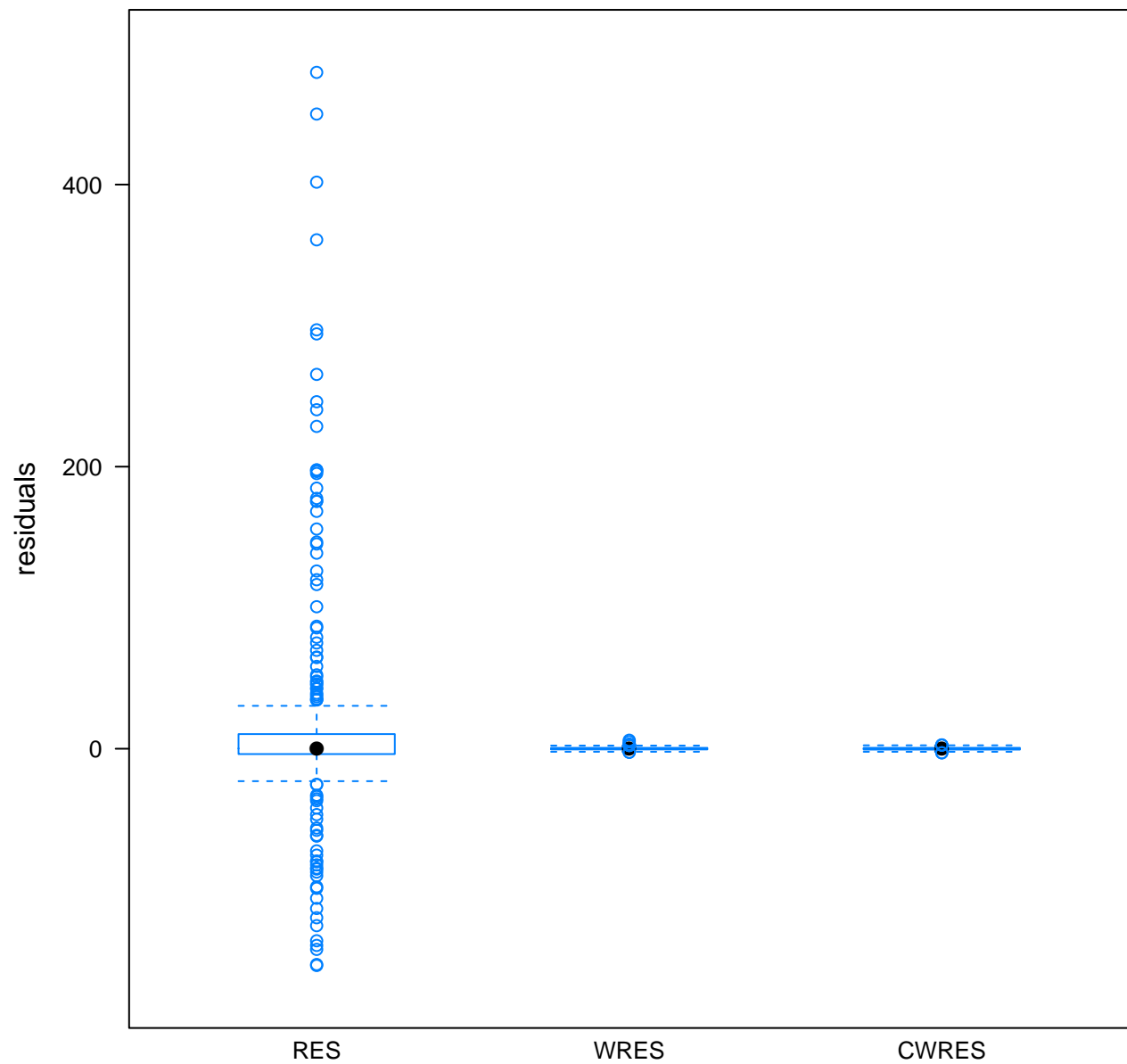


**Model 1004**  
**Q-Q Plot of CWRES vs. WRES for male data**

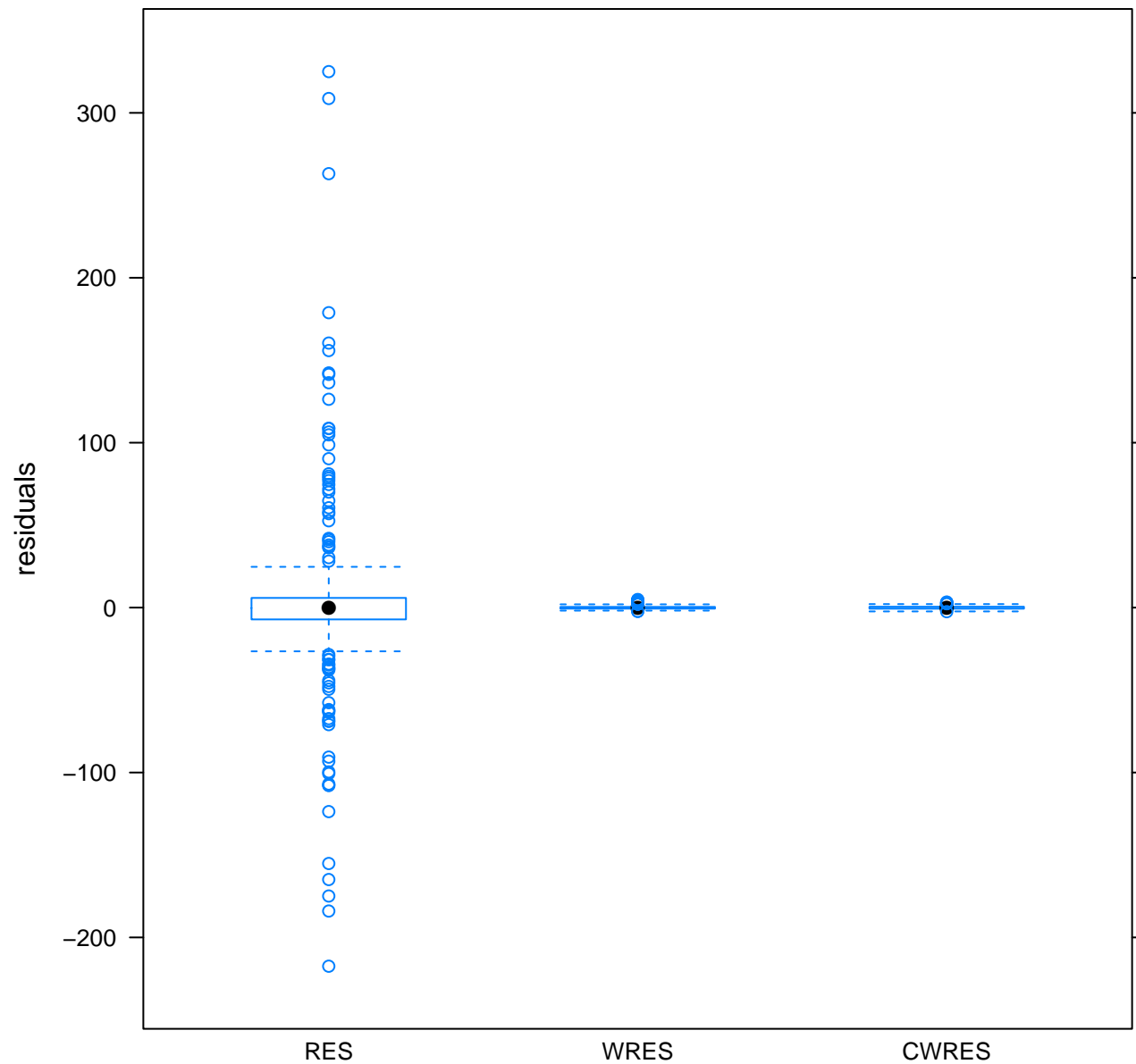




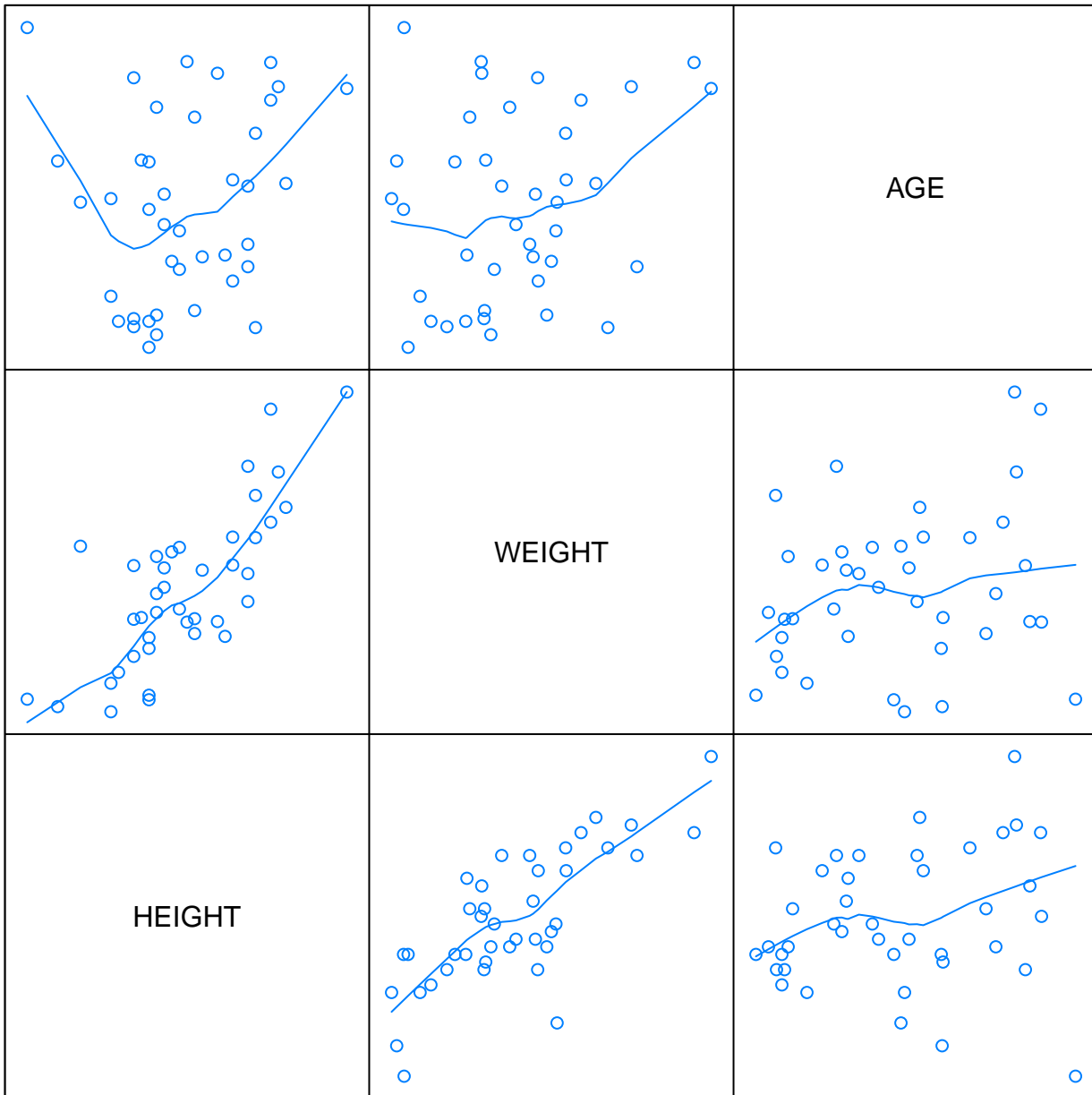
**Model 1004 Boxplots of Residuals for female data**



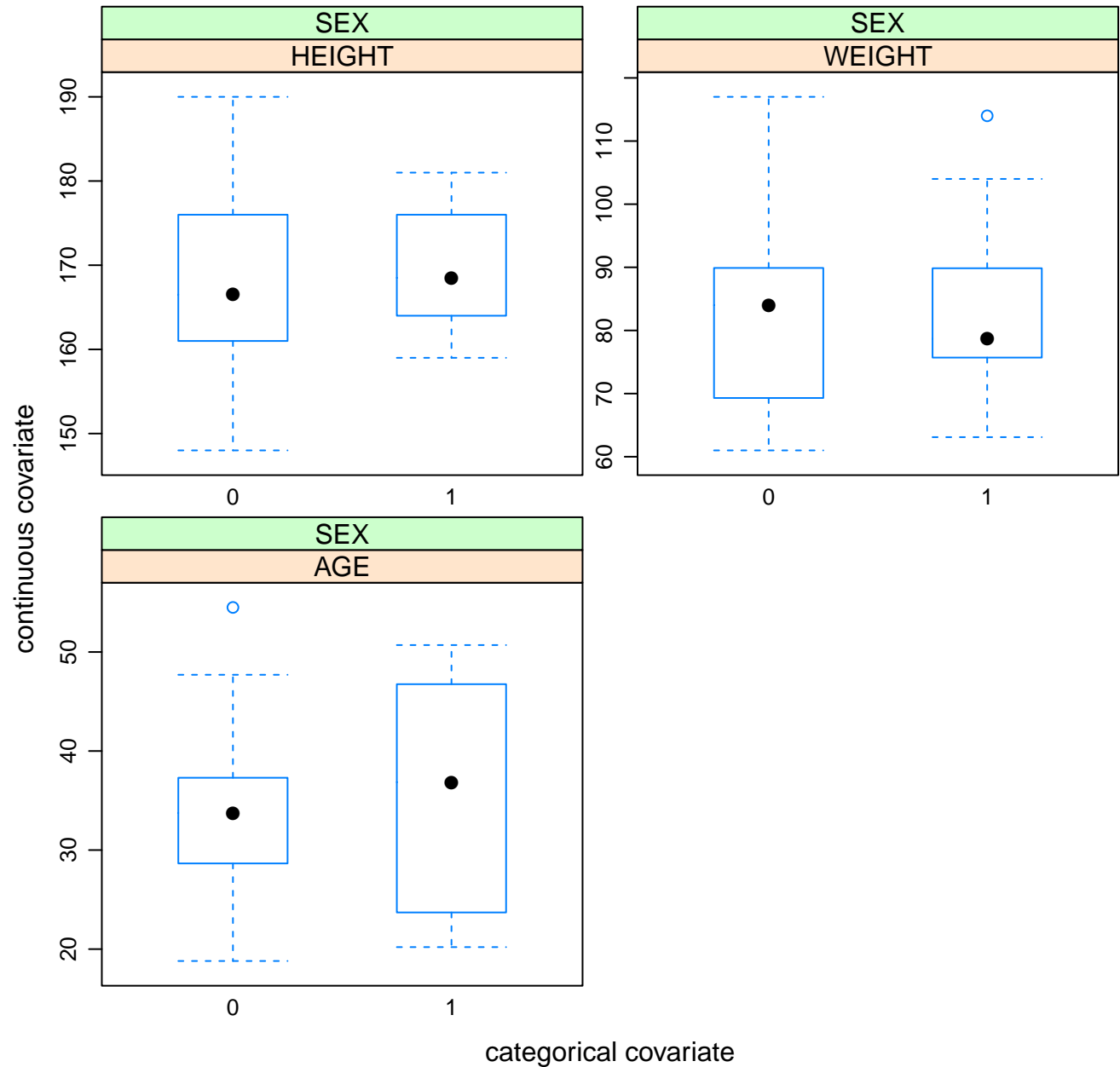
**Model 1004 Boxplots of Residuals for male data**



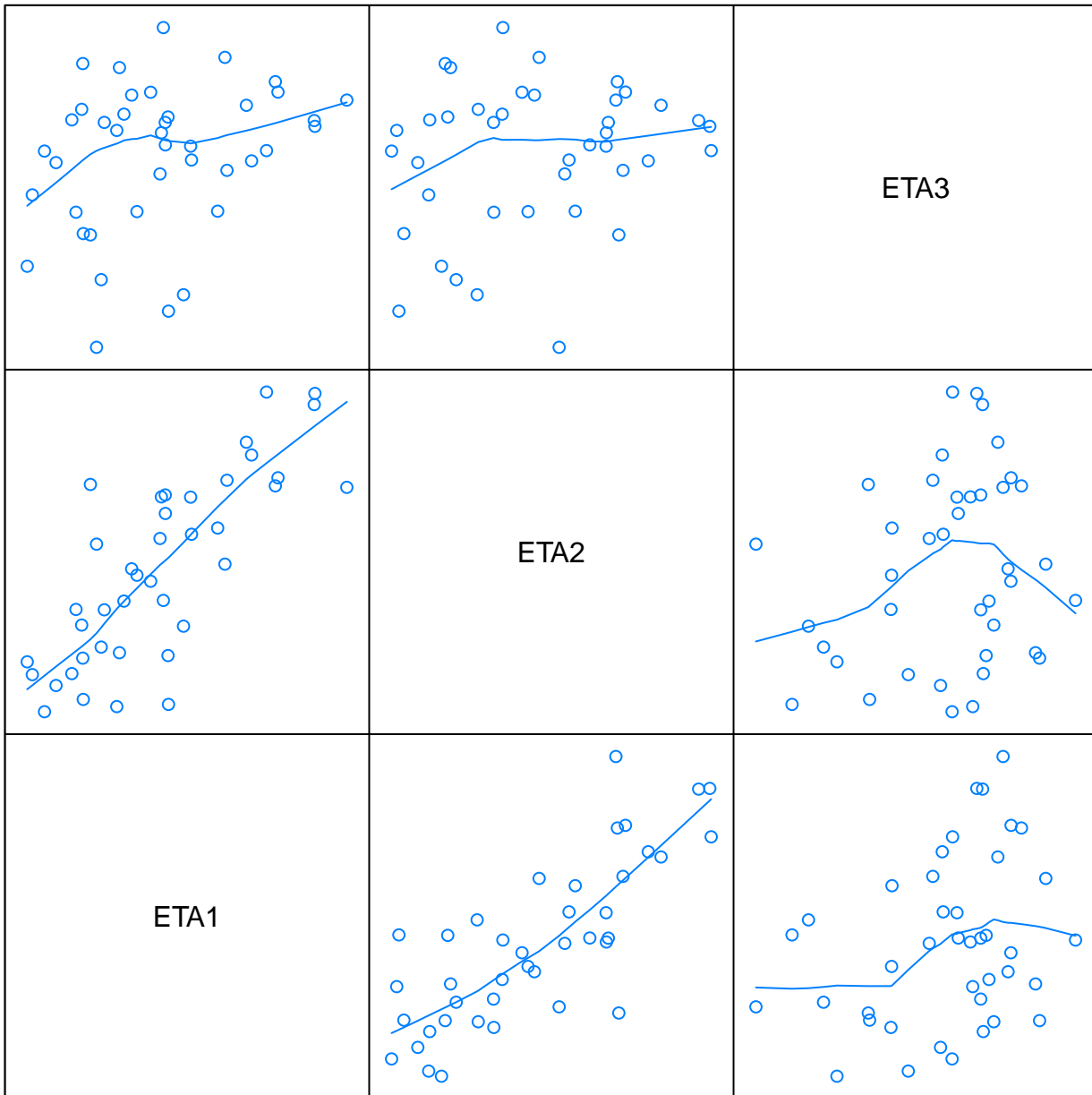
# Covariate Scatterplots



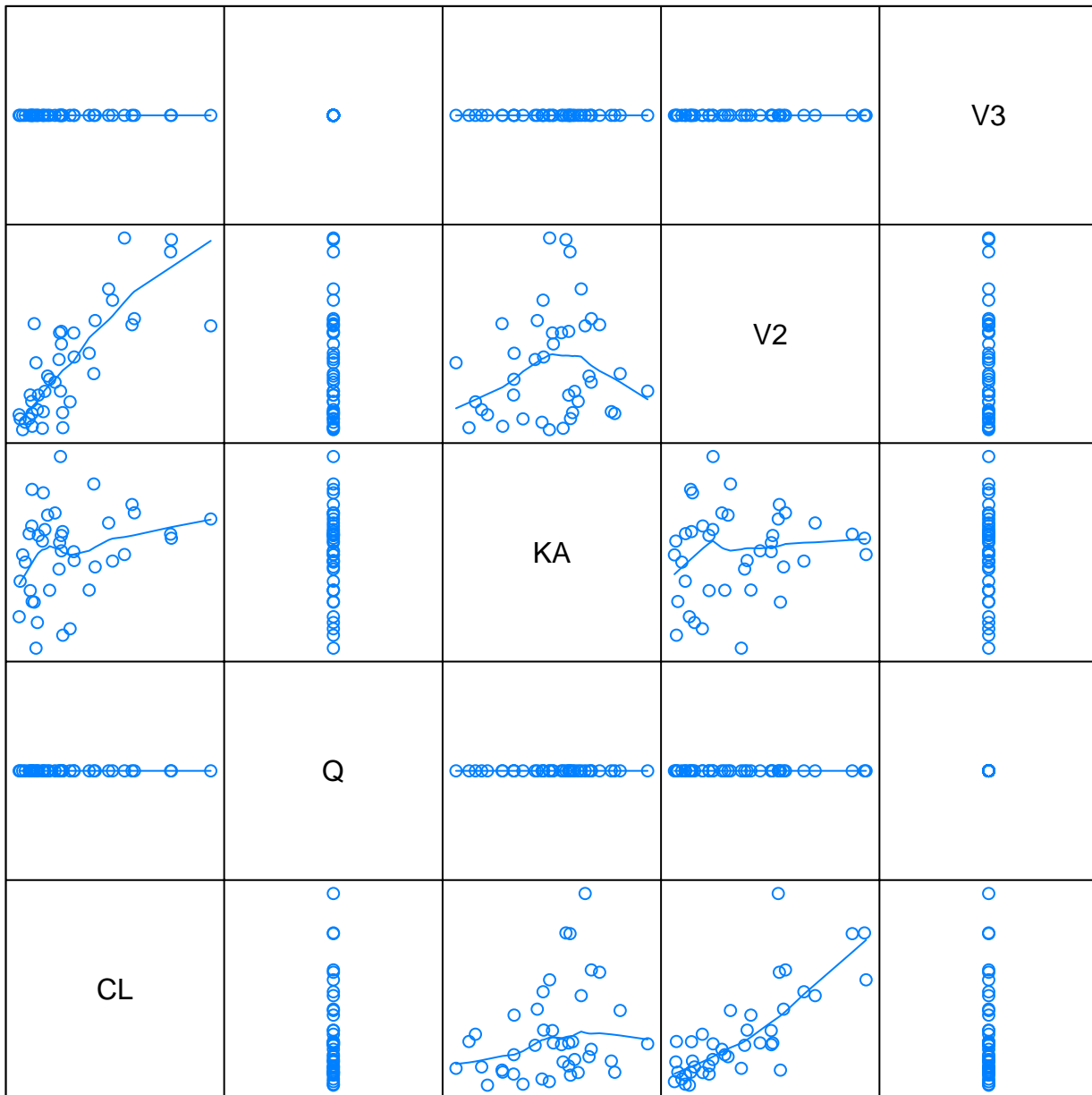
# Continuous Covariates vs. Categorical Covariates



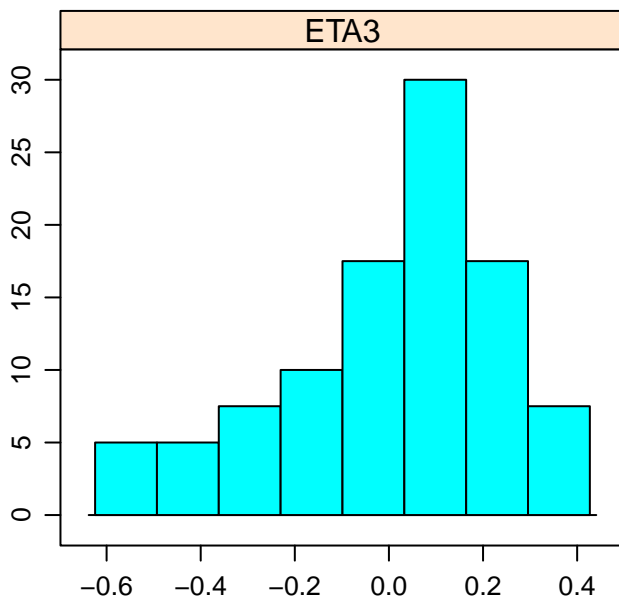
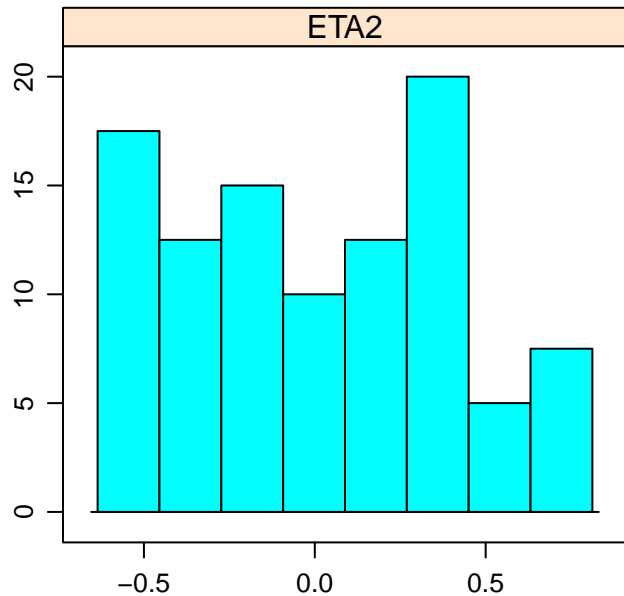
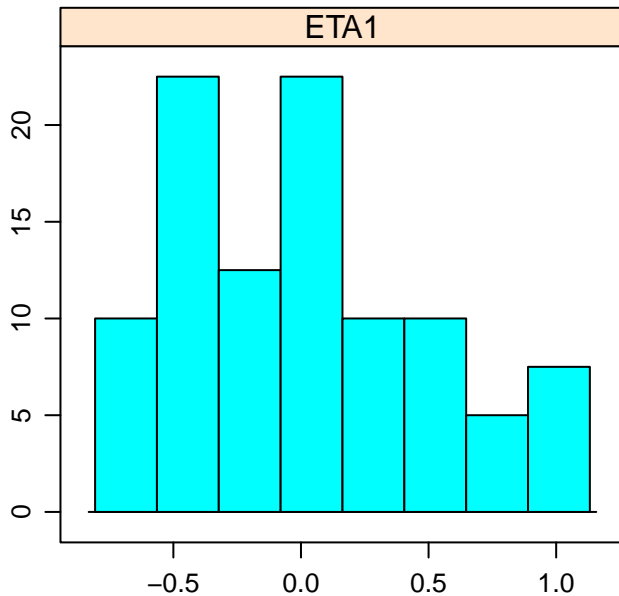
# ETA Scatterplots



# Parameter Scatterplots

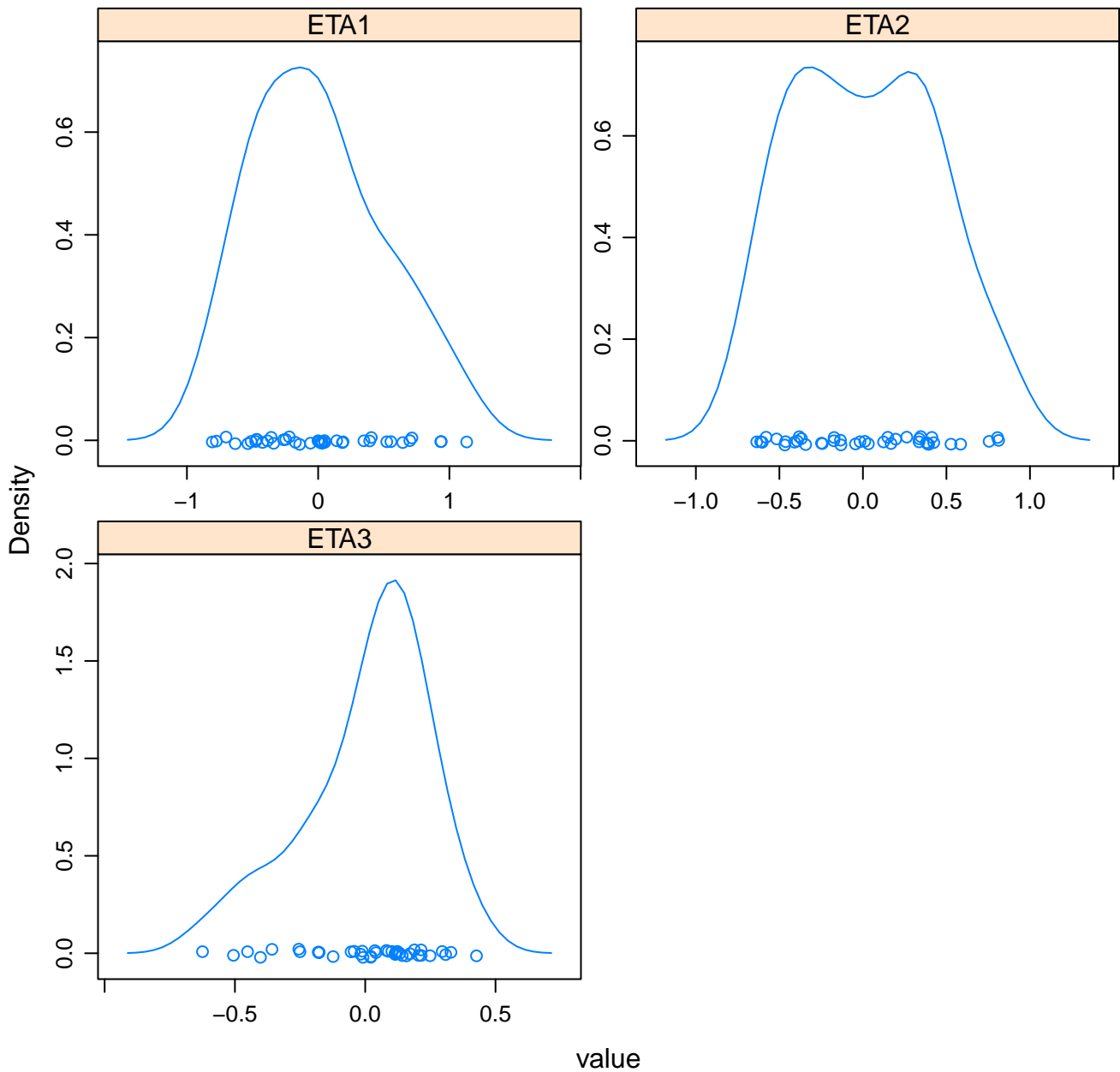


# Histograms of Etas



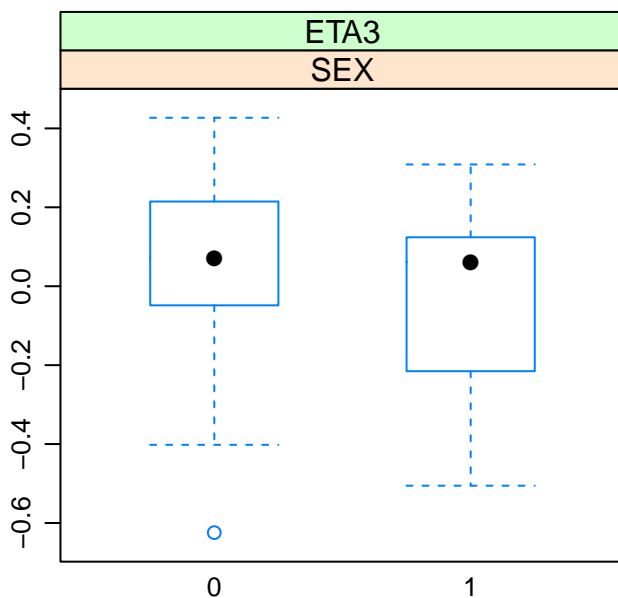
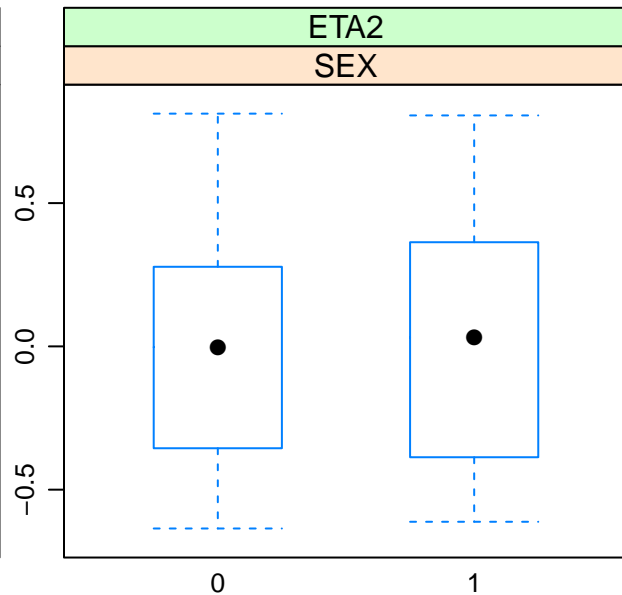
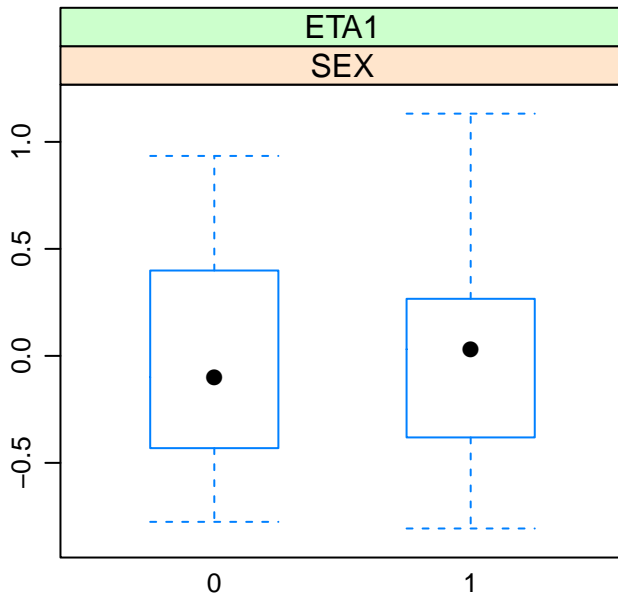
value

# Density of Etas



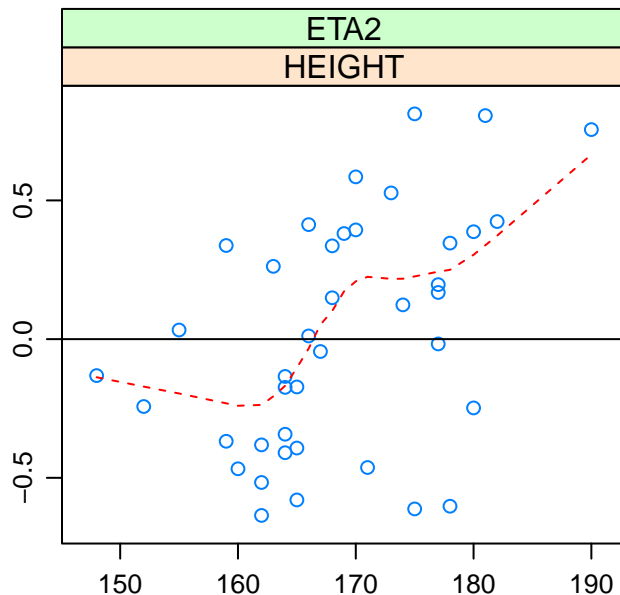
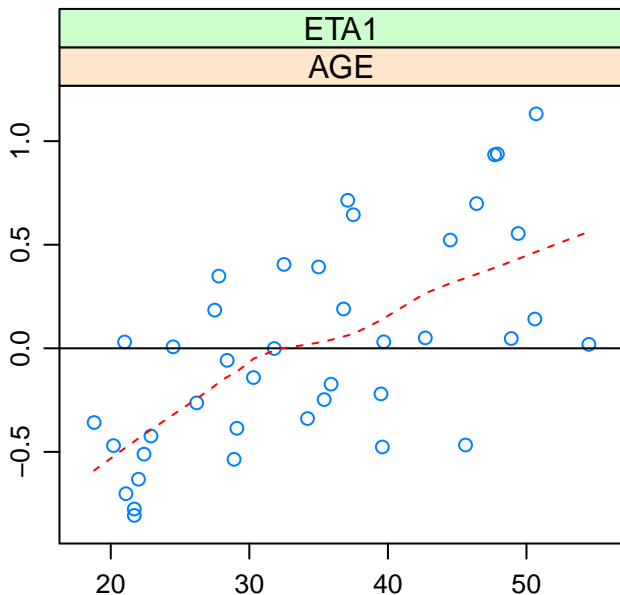
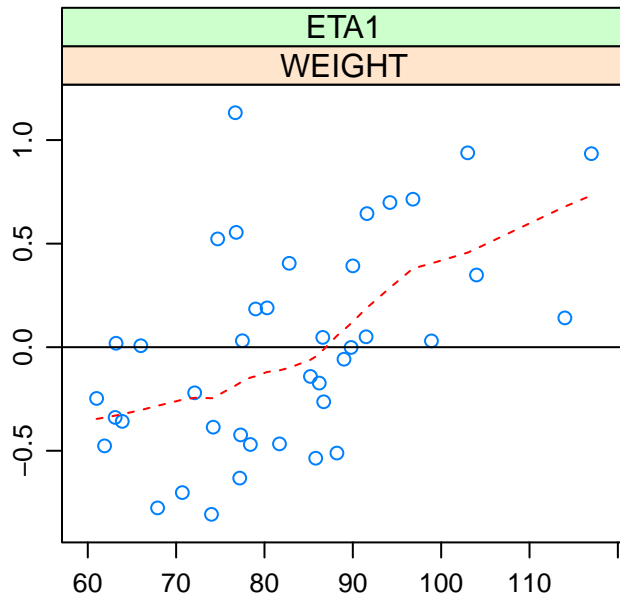
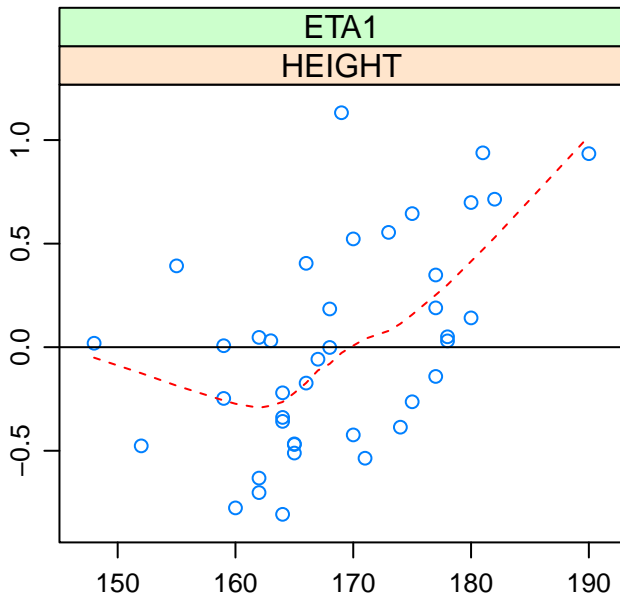


# Boxplots of Etas by Categorical Covariate



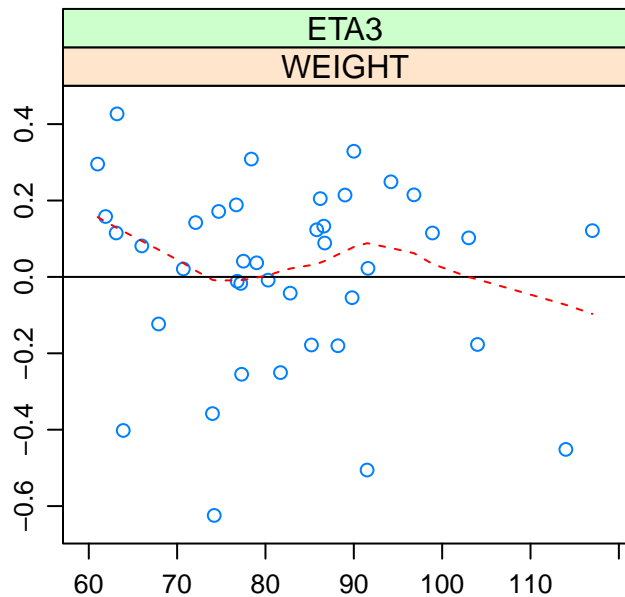
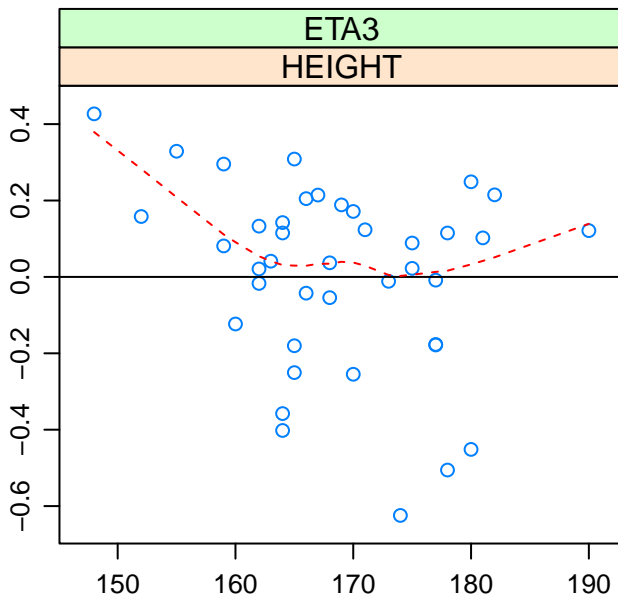
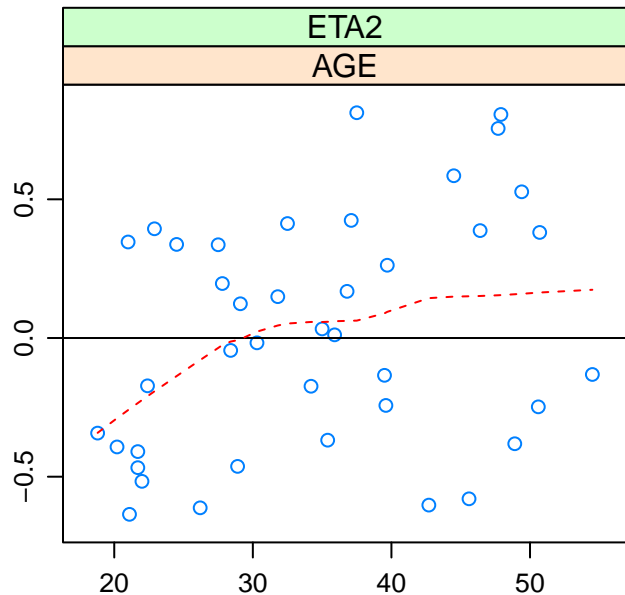
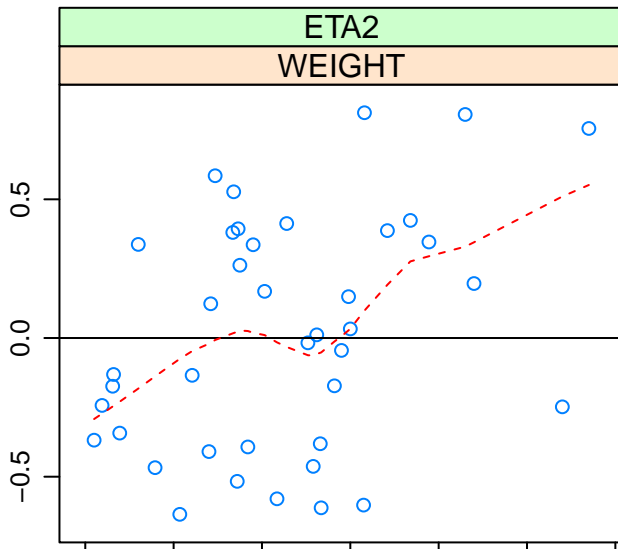
categorical covariate level

# Etas vs. Continuous Covariates



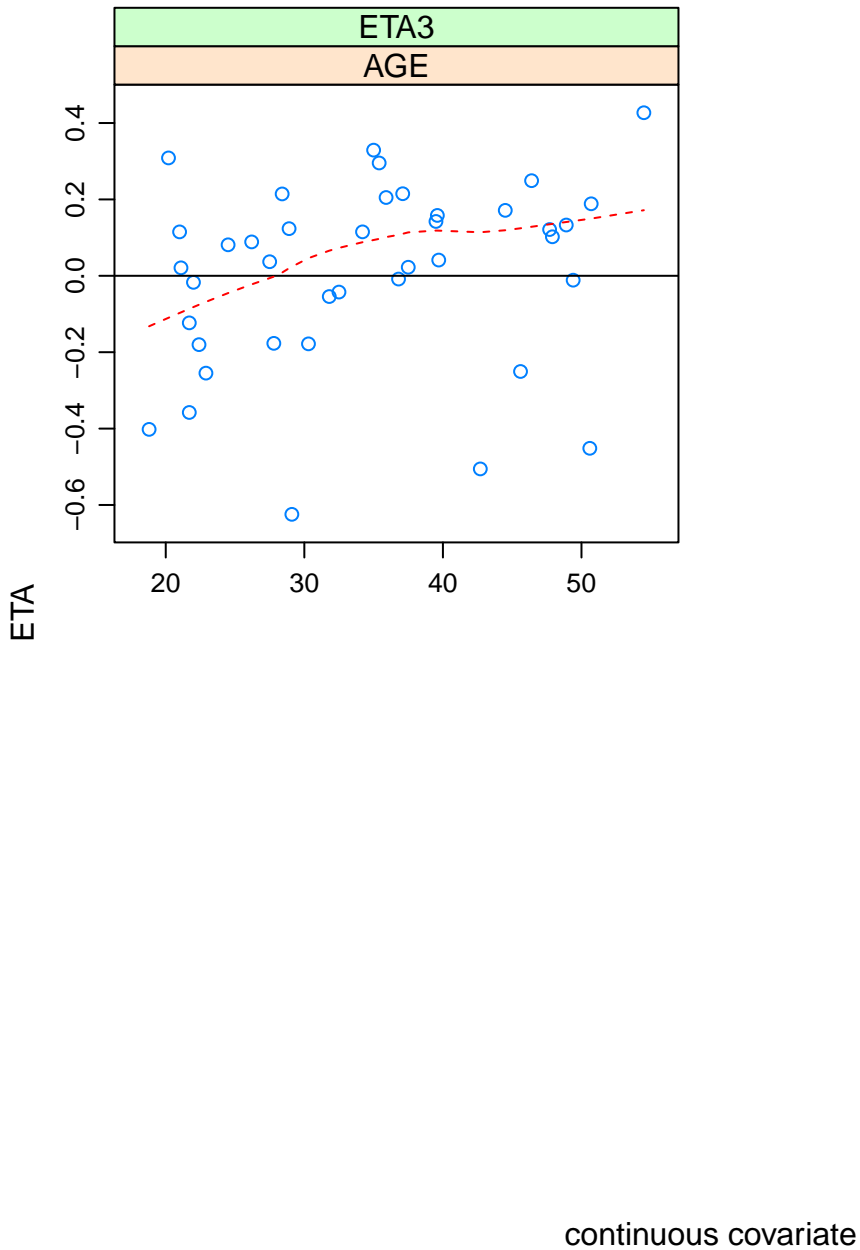
continuous covariate

# Etas vs. Continuous Covariates

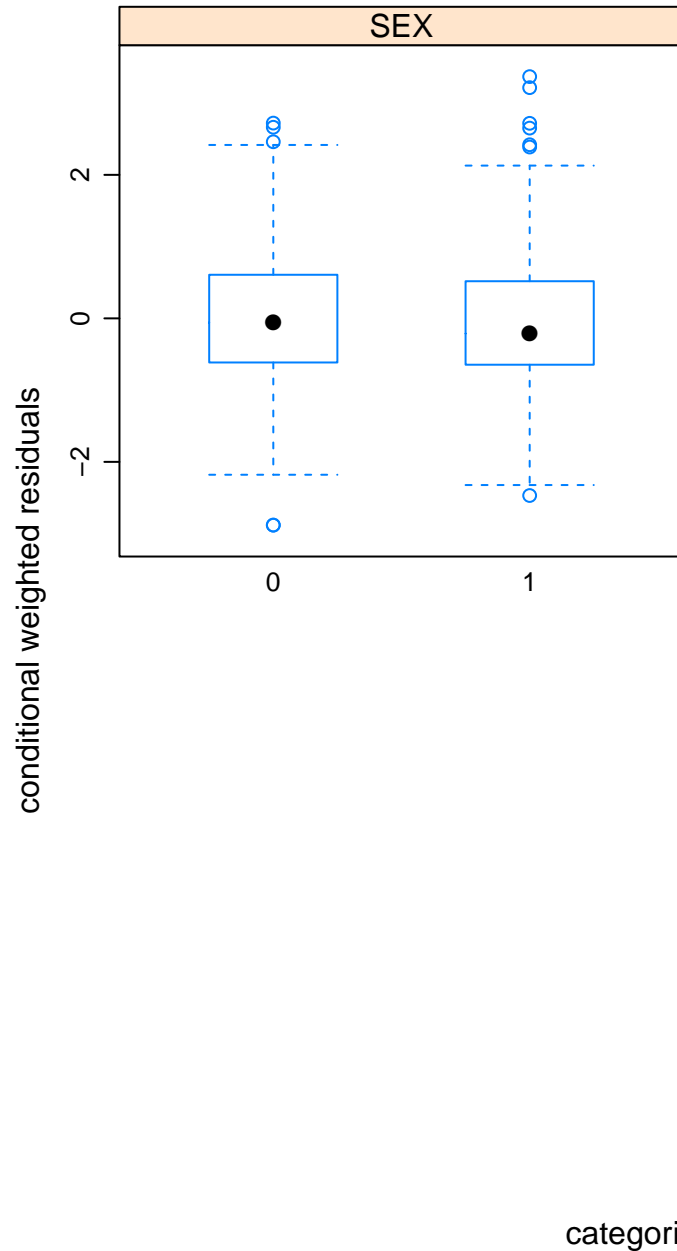


continuous covariate

# Etas vs. Continuous Covariates

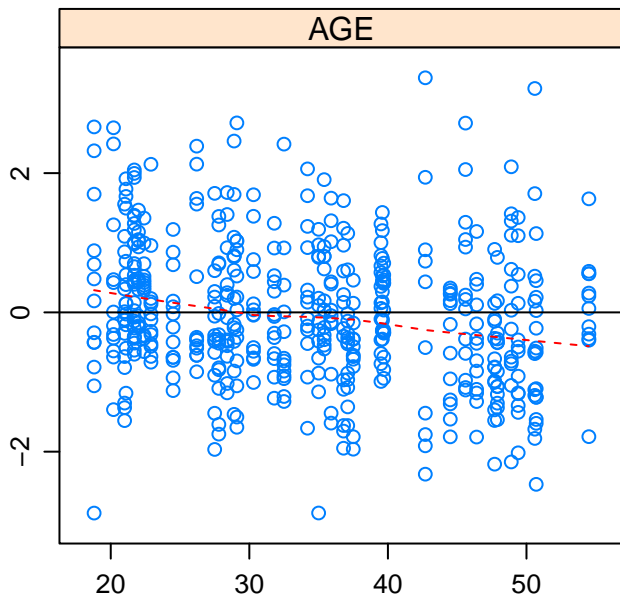
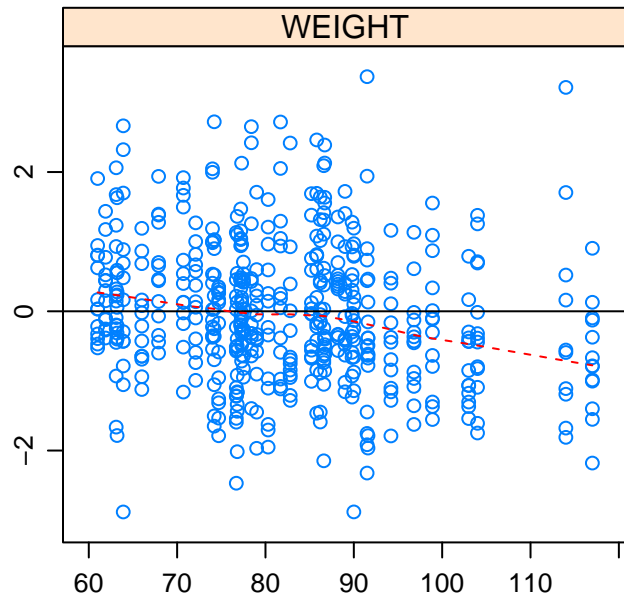
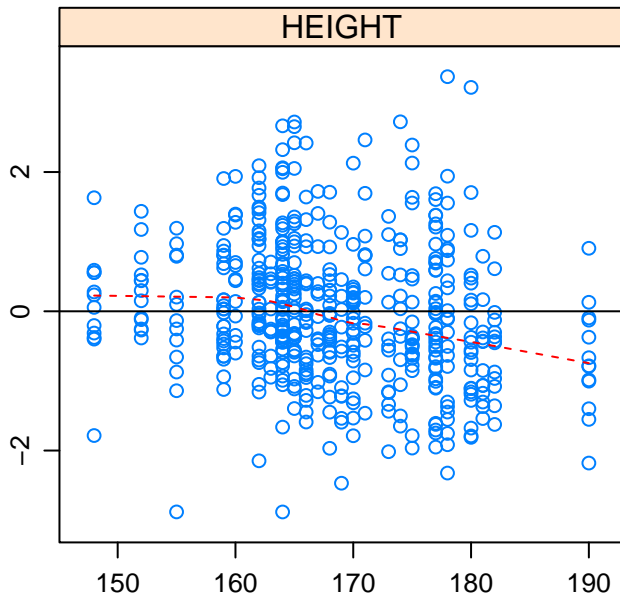


## CWRES vs. Categorical Covariates



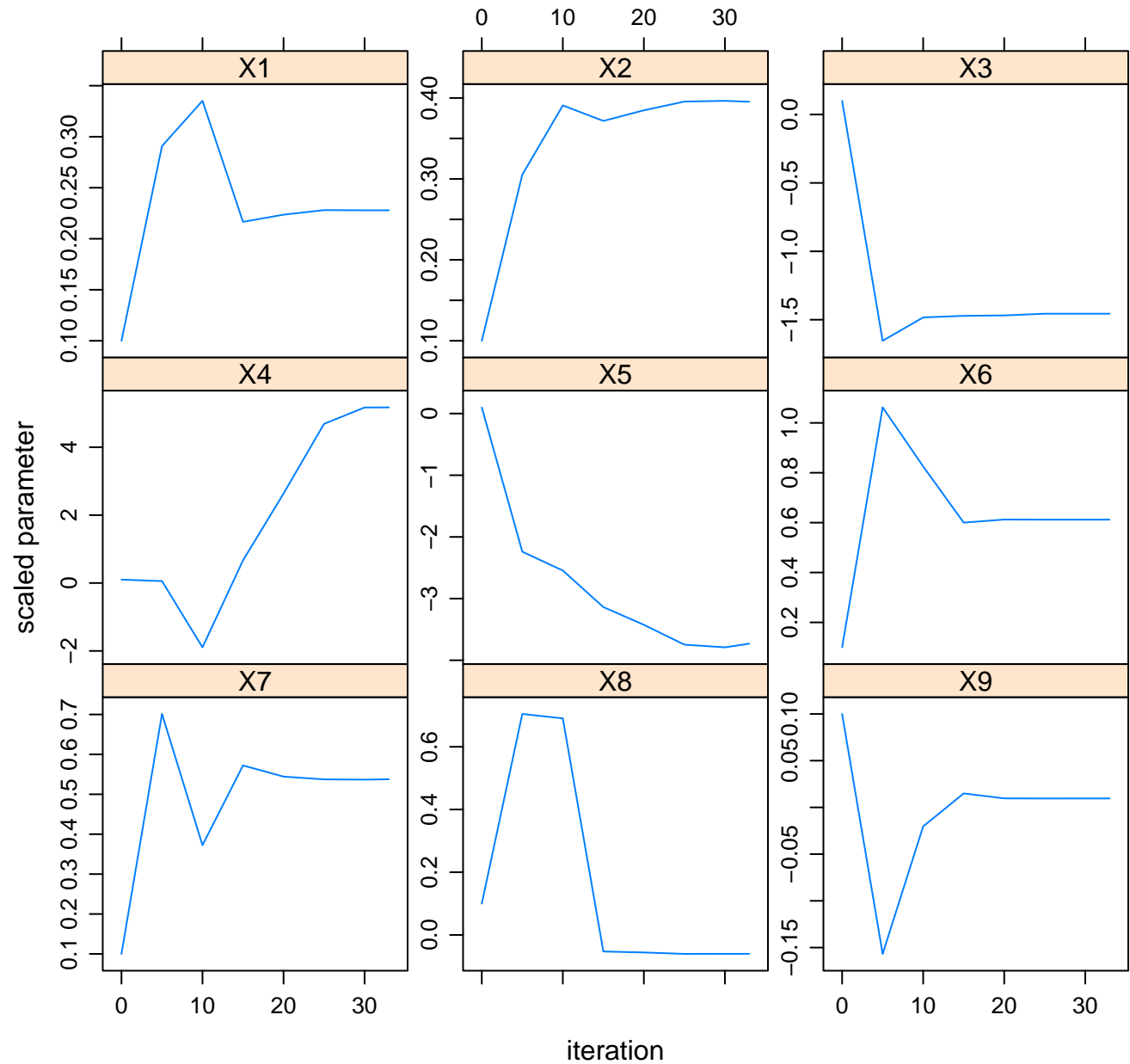
# CWRES vs. Continuous Covariates

conditional weighted residuals



continuous covariate

# Model 1004 parameter search



# Model 1004 gradient search

