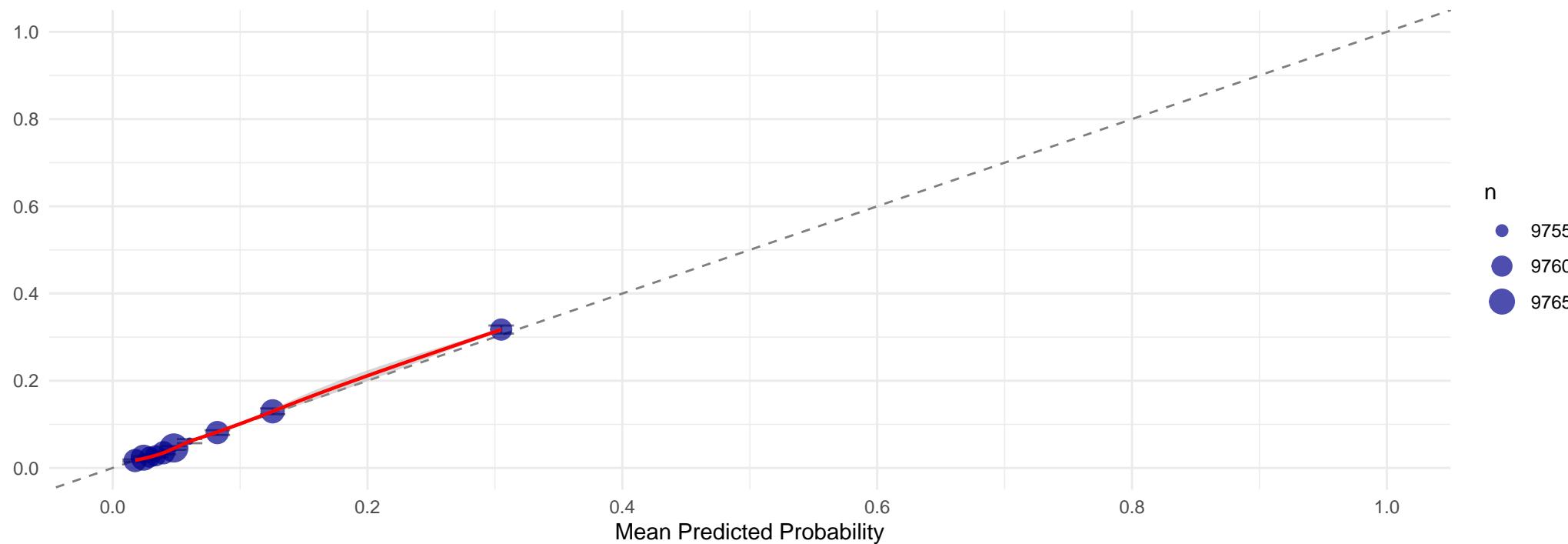


# Diagnostic Analysis – Firth Logit

## Calibration Plot – Firth Logit

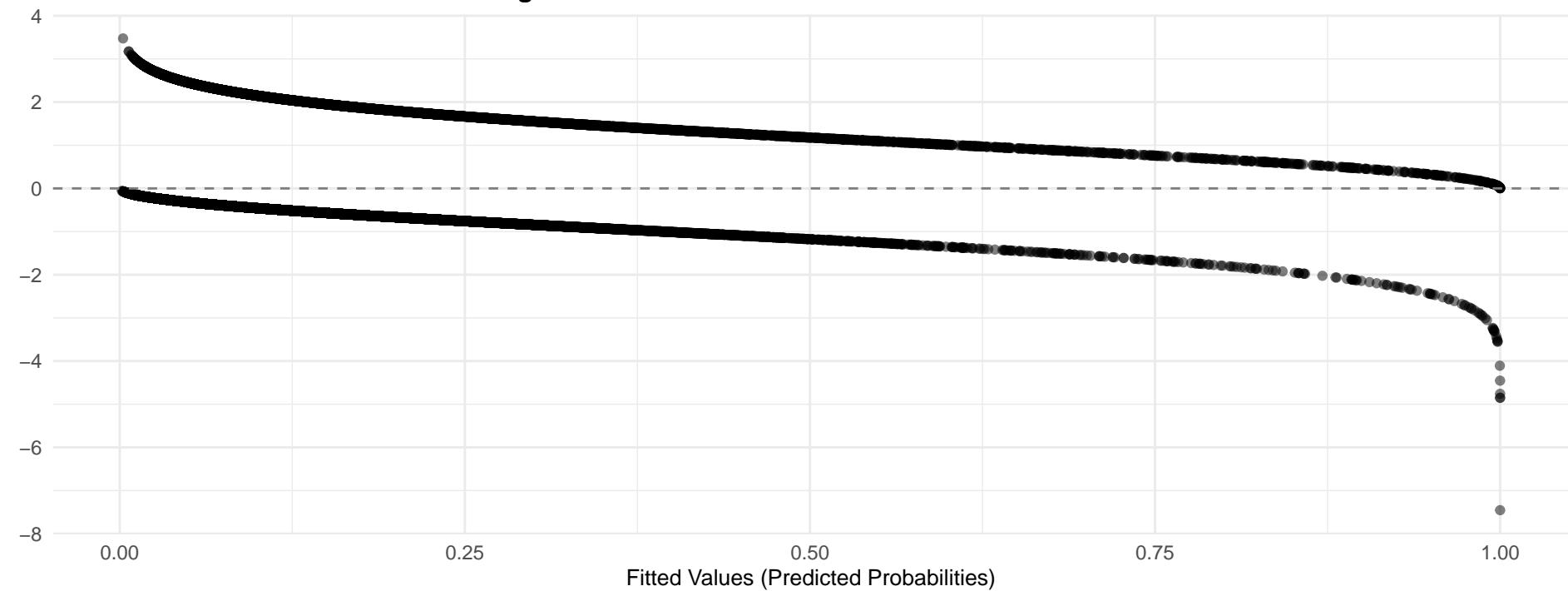
Hosmer–Lemeshow test:  $\chi^2 = 33.32$ , df = 8, p = 0.000

Observed Proportion



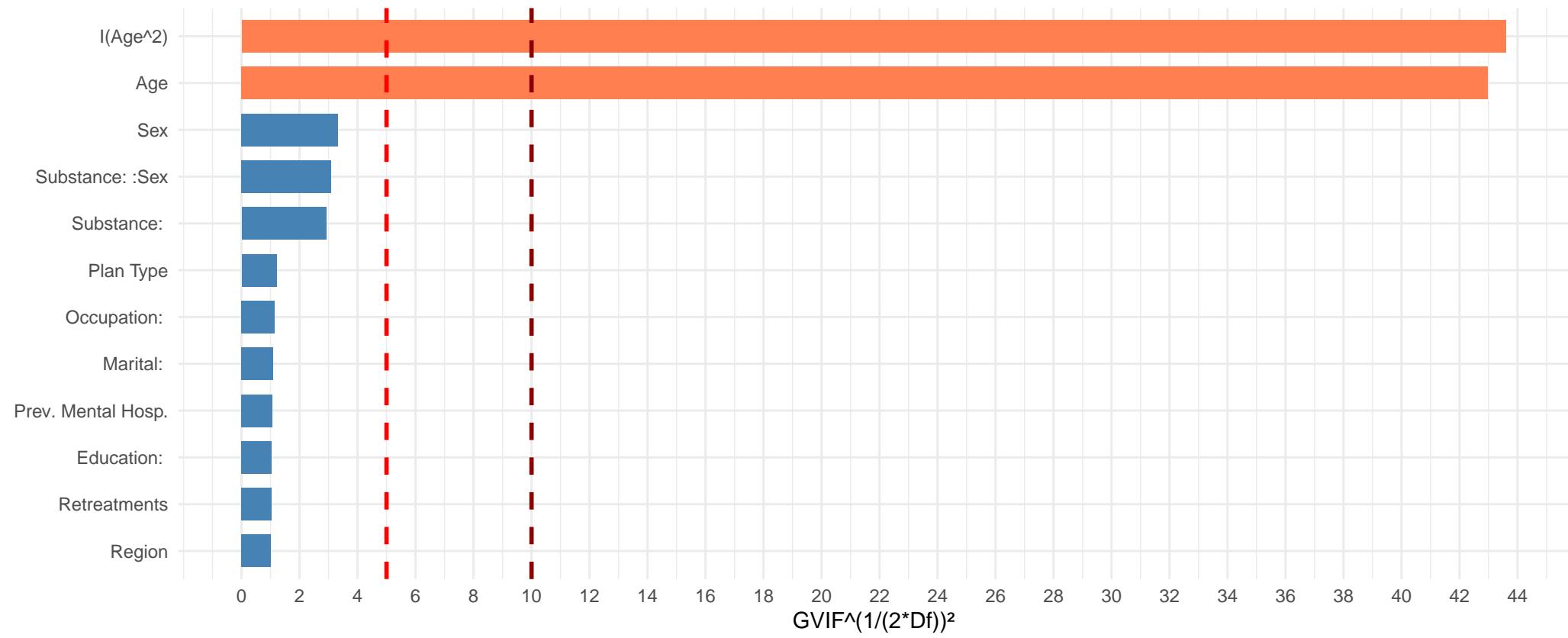
## Residuals vs Fitted Values – Firth Logit

Deviance Residuals



## Multicollinearity Assessment (GVIF) – Firth Logit

GVIF $^{(1/(2*Df))}$  squared values; Red lines at 5 and 10



GVIF < 5      GVIF = 5