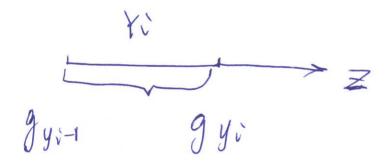
Full conditional distribution of Z $p(Zi/\beta,y,g) \propto p(Zi/\beta) \cdot p(y,g/Zi,\beta)$ $\propto p(Zi/\beta) \cdot p(g/y,ZZ) \cdot p(g)$ $\sim p(Zi/\beta) \cdot p(g/y,ZZ)$ $\sim p(Zi/\beta) \cdot p(g/y,ZZi)$ $\propto dnorm(\beta xi^T xi^T \beta, 1) \times S(a,b,(Zi))$

constrained on interval (a, b)



$$F_{j}(y) = \Pr(Y_{ij} \leq y) = \Pr(g_{j}(Z_{ij}) \leq y)$$

$$= \Pr(Z_{ij} \leq g_{j}^{-1}(y)) \qquad Z_{ij} \sim N(0.1)$$

$$= \Phi(g_{j}^{-1}(y))$$