

$$[\boldsymbol{\lambda}, \alpha, \beta | \mathbf{y}] \propto \prod_{i=1}^n \text{Poisson}(y_i | \lambda_i) \text{gamma}(\lambda_i | \alpha, \beta) \text{gamma}(\beta | .001, .001) \text{gamma}(\alpha | .001, .001)$$

Writing the full-conditional distribution for  $\lambda_i$ :

$$[\lambda_i | .] \propto \text{Poisson}(y_i | \lambda_i) \text{gamma}(\lambda_i | \alpha, \beta)$$

