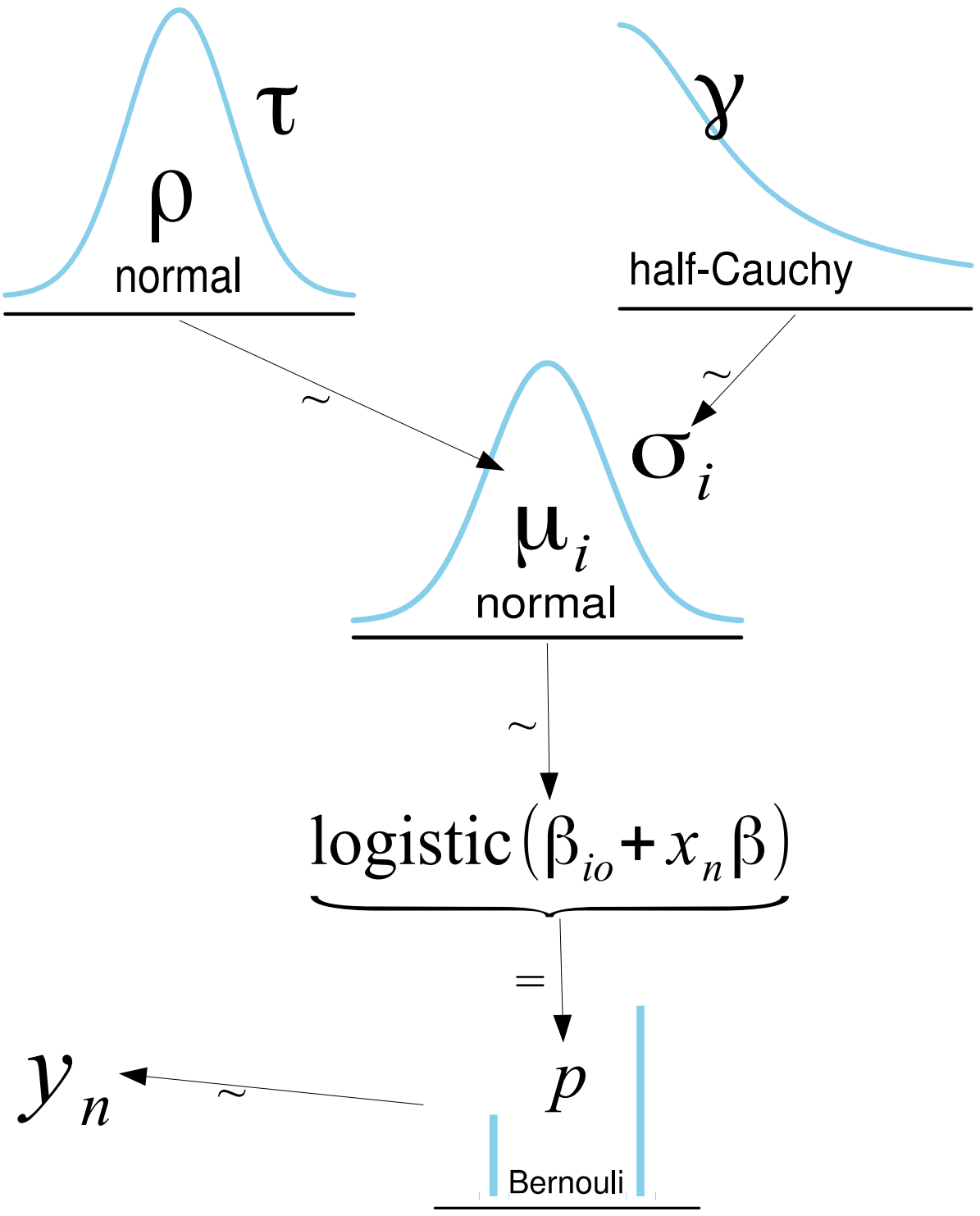

Hospital Level

Service Level

Patient Level

$$y_n \sim \text{bernulli}(p)$$

$$\beta_{io} \sim \text{normal}(\mu_i, \sigma_i)$$

$$\mu_i \sim \text{normal}(\rho, \tau)$$

$$\sigma \sim \text{cauchy}(\gamma)$$