$$P(0|y) \neq P(y|0)P(0)$$

$$P(y|0) = [y]0y(1-0)^{n-y}$$

$$P(0|a_1b) = [3(a|b)]0y(1-0)^{n-y}$$

$$0 \sim 3da(a_1b)$$

$$Q(1-0) = [3(a|b)]0y(1-0)^{n-y}$$

 $P(y|0) \perp Q^{y}(1-0)^{n-y}$ $P(0) \perp Q^{q-1}(1-0)^{b-1}$ Binamid (n.0) Beta (a,b) p(014) & p(410) p(0) L Oy+at (1-0/n-y+6)-1 Oly n Befa (4+9, 1-4+5)
Carpost B-post E(0) = atb E(014) = ytath-ytb = ytatb. $\frac{449}{2449} = \frac{9}{n} \left[\frac{1}{n+a+b} \right] + \frac{a}{a+b} \left[\frac{a+b}{n+a+b} \right]$