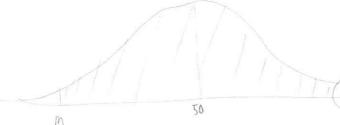


$$b(n, \rho, k) = {n \choose k} p^{k} (1-\rho)^{n-k} = exact \# successes$$

$$q(\rho) = \sum_{\substack{n \leq k \leq n \\ n \leq k \leq n}} b(n, \rho, k) \qquad n=100$$



if m low (equivalent to high alpha level)

hardin for missed opportunity

d(p) becomes higher

T2 error = 1 - a(p)

becomes lower

The high (equivalent to low alpha level)
harder for false alarm
T2 error goes down
a(p) becomes lower

n=100

$$\frac{\sum_{68 \leq k \leq 100} b(100, 0.6, k)}{b(100, 0.6, k)} = 0.0615$$

P=0.6

$$\sum_{\substack{73 \leq k \leq 100 \\ 74 \leq k \leq 100}} b(100,0.8,k) = 0.966$$

0,944 P=0,8

For Tlarror, mat 69 gives us 25% error rate. We would reject to at this point.

Increasing m will only decrease this rate further.

For TZ error, m at 73 gives us <5% error rate. The new Ho is p=0.8. If the baseline is p=0.8, then getting m = 73 or below would make us think p=0.6, hence causing Type 2 error.

Decreasing in will only decrease this rate further.

This is why 69 = m = 73.