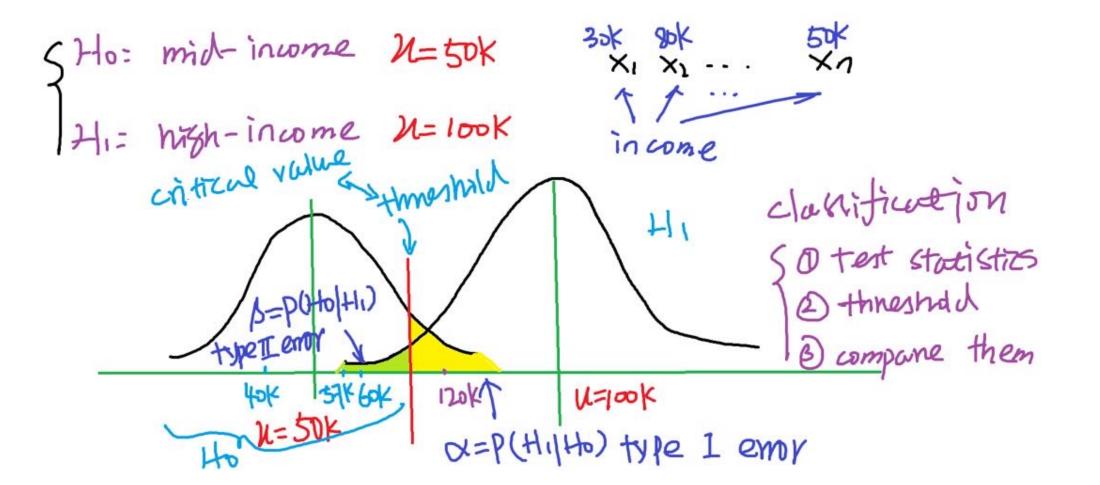
Vaccine 5 Ho: does nork 1 Hi: norks Ho: null hypothesis H1: · suspect { Ho: non-Suilty in court | Hi: Suilty () No not neject Ho, but not accept 'we do not deny that suspect 3 non-swity, but we do not accept it!



15= P(Ho | Hi) = probability that classified as the but in dossified touth fact it is H,

D= P(HolHi) => in fact vaccine works but it is classified as non-workable.

Show
$$u = 0.25$$
 $v = 5\%$ type I error

Hi: $u \neq 0.25$ $v = 5\%$ type I error

 $v = 0.25$ $v = 0.25$

critical value (threshold) ISO critical value

(B) p-value $X_1, X_2 \dots X_n \rightarrow test statistics$

always needed neject or not neject Ho

critical value = 1.96 -> if Z > 1.96 or Z < -1.96, reject Ho What is 7? 7= No H 1.96 Z=NIO

threshold 01/2=0.025 = p-value is defined by test statistics if p-value < 1/2, neject Ho 四十三のりり p-value > 1/2, not nejet Ho U= 0.25 P-value = 0.0008 < 0/25 = 0.025 = nejet Ho

$$S H_0: \mathcal{H} = 1000 - \Delta$$

$$N = \left(\frac{(2\alpha + 2\beta)6}{N_1 - N_0}\right)^2 = \left(\frac{(2\alpha + 2\beta)6}{\Delta}\right)^2$$

$$N = \left(\frac{(N_0 + N_0)^2}{N_0 + N_0}\right)^2 = \left(\frac{(N_0 + N_0)^2}{N_0 + N_0}\right)^2$$

$$N = \left(\frac{(N_0 + N_0)^2}{N_0 + N_0}\right)^2$$

$$V = 0.05 \implies Z_{A} = 1.645$$

$$(S = 0.1) \implies Z_{A} = 1.285$$

$$\Delta = 5 \implies \mathcal{U}_{1} - \mathcal{U}_{0} = \Delta = 5$$

$$N \Rightarrow N = 0.05$$
 $\Delta = 0.05$
 $N \Rightarrow N = 0.05$ $\Delta = 0.05$
 $\Delta = 0.05$ $\Delta = 0.05$
 $\Delta = 0.05$ $\Delta = 0.05$

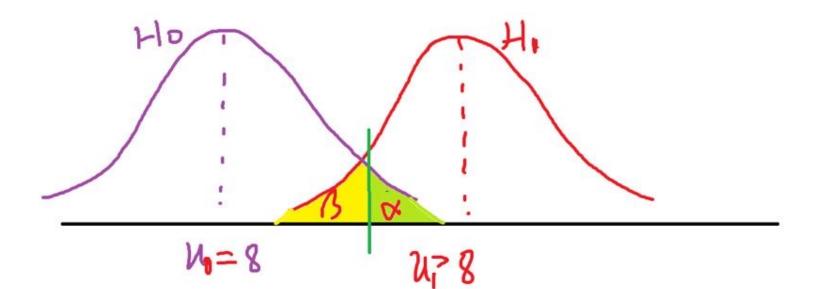
$$\nabla = 2$$

$$N \rightarrow X = 0.05$$
 $\Lambda = 0.1$ $\Delta = 5$
 $\Lambda \rightarrow X = 0.05$ $\Lambda = 0.1$ $\Delta = 10$
 $\Lambda \rightarrow X = 0.05$ $\Lambda = 0.1$ $\Delta = 15$

SHo:
$$N \leq 8$$
 $H_1: U > 8$
 $t = \frac{\bar{x} - u}{5/\sqrt{n}} = \frac{9.7 - 8}{\sqrt{14.62}/\sqrt{11}} \approx 1.47$
 $df = n - 1 = 11 - 1 = 10$

0.05 < p-value < 0.1 => donot neject Ho

N=11 X=9.7 $S^2=14.62$



U1 1 ned curve shifts to the right

$$N = \Delta = 0.1 ? \quad \text{why } \times + \Delta = 0.1 ?$$

$$U_1 - U_0 = 0.0]$$

$$1 = \sqrt{(Z_0 + 2\Lambda) \cdot 6} \qquad \text{How to get this?}$$

$$1 = \sqrt{(Z_0 + 2\Lambda) \cdot 6} \qquad \text{A/B test.}$$