- significant level d:

· The probability of making a wrong decuion to accept the attenative hypothesis while the null hypothesis is true

 $^{\circ}$   $\alpha = 1$  - confidence level

- power

· P (rejecting Ho | Ho false)

= P(not making type I error)

· How to increase the power ?

· brevere 2 (Type I error voil increase too)
· increase sample size

+ (I.

= 1 - p (not rejecting Ho | Ho false)

M2

Ha: U= M2

- Ztest (for proportions)

$$Z = \frac{\hat{p} - \hat{p}_{o}}{\sqrt{\frac{\hat{p}_{o}(1-\hat{p}_{o})}{n}}}$$

° Z = \(\frac{\hat{p} - \hat{p}\_0}{\sqrt{p\_0}\)}\) (calculate how many standard deviations away between Ho startic and sampling startie)

rlypothesis Test

- T test (for mean)
$$o + = \frac{\overline{X} - U_0}{\frac{S_X}{\sqrt{n}}}$$

- T test (for mean)
$$0 + \frac{\overline{X} - U_0}{\frac{S_X}{\sqrt{n}}}$$

$$0 + \frac{\overline{X} - U_0}{\sqrt{n}}$$

$$0 + \frac{\overline{X} -$$