







**Probability of Type II Error**  
• The probability of the type II error is  
the probability that Z<sub>0</sub> falls between  

$$z_{\alpha/2}$$
 and  $z_{\alpha/2}$  given that H<sub>1</sub> is true.  

$$\beta = \Phi\left(z_{\alpha/2} - \frac{\delta\sqrt{n}}{\sigma}\right) - \Phi\left(-z_{\alpha/2} - \frac{\delta\sqrt{n}}{\sigma}\right)$$















