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Figure 2: Hypothesis Testing

- **Null Hypothesis:** The population mean is equal to 95%. The probability of rejecting the null hypothesis when it is true is 5% (Type I error). The probability of failing to reject the null hypothesis when it is false is 95% (Type II error). The probability of making a correct decision is 95% (Power of the test).
- **Alternative Hypothesis:** The population mean is not equal to 95%. The probability of rejecting the null hypothesis when it is false is 95% (Power of the test). The probability of failing to reject the null hypothesis when it is false is 5% (Type II error). The probability of making a correct decision is 95% (Power of the test).

$p < 0.05$ indicates a statistically significant result at the 5% level. The null hypothesis is rejected. The alternative hypothesis is accepted. The result is significant (significant). The probability of making a correct decision is 95% (Power of the test). The probability of failing to reject the null hypothesis when it is false is 5% (Type II error). The probability of making a correct decision is 95% (Power of the test).

Figure 2: Hypothesis Testing. The null hypothesis is rejected. The alternative hypothesis is accepted. The result is significant (significant). The probability of making a correct decision is 95% (Power of the test). The probability of failing to reject the null hypothesis when it is false is 5% (Type II error). The probability of making a correct decision is 95% (Power of the test).

The null hypothesis is rejected. The alternative hypothesis is accepted. The result is significant (significant). The probability of making a correct decision is 95% (Power of the test). The probability of failing to reject the null hypothesis when it is false is 5% (Type II error). The probability of making a correct decision is 95% (Power of the test).