

## Two Sample Hypothesis Testing Test Value Calculations

### Two Sample Dependent

$$t_0 = \frac{\bar{d}}{s_d/\sqrt{n}}$$

### Two Sample Independent - Equal Variance

$$t_0 = \frac{\bar{x}_1 - \bar{x}_2}{sp\sqrt{\frac{1}{n_1} + \frac{1}{n_2}}}$$

### Two Sample Independent - Unequal Variance

$$t_0 = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$