Results Section

Me

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1 Results

- Welch two-sample t-test
- two populations with variance assumed to be unequal

Hypothesis 1 Training of civilians will decrease the time to solution in victims experiencing airway difficulties.

$$\begin{array}{l} H_0: \; \bar{X_1} - \bar{X_2} \geq 0 \\ H_0: \; \bar{X_1} - \bar{X_2} < 0 \end{array}$$

ullet where X_1 is trained and X_2 is untrained

Results:

$$\begin{array}{l} t = -4.7304 \\ df = 3.0338 \\ p - value = 0.008729 \\ \bar{x_1} = 20.5 \\ \bar{x_2} = 400.0 \\ 95\%CI: (-\infty, -191.56) \end{array}$$

Hypothesis 2 Training of civilians will decrease the time to solution in victims experiencing arterial bleading.

$$H_0: \bar{X}_1 - \bar{X}_2 \ge 0 H_0: \bar{X}_1 - \bar{X}_2 < 0$$

• where X_1 is trained and X_2 is untrained

Results:

testines:

$$t = -9.004$$

 $df = 3$
 $p - value = 0.001446$
 $\bar{x_1} = 203.25$
 $\bar{x_2} = 480.0$
 $95\%CI: (-\infty, -204.42)$