

Hypothesis test for the population mean: t test using the p value method

Tammy recently switched her primary doctor to one specializing in caring for elderly patients. On her new doctor's website, it says that the mean systolic blood pressure among elderly females is 115 millimeters of mercury (mmHg). Tammy believes the value is actually higher. She bases her belief on a recently reported study of 14 randomly selected, elderly females. The sample mean systolic blood pressure was 128 mmHg, and the sample standard deviation was 23 mmHg.

Assume that the systolic blood pressures of elderly females are approximately normally distributed. Based on the study, at the 0.10 level of significance, can it be concluded that μ , the population mean systolic blood pressure among elderly females, is greater than 115 mmHg?

Perform a one-tailed test. Then complete the parts below.

Carry your intermediate computations to three or more decimal places. (If necessary, consult a [list of formulas](#).)

(a) State the null hypothesis H_0 and the alternative hypothesis H_1 .

$$H_0: \mu = 115$$

$$H_1: \mu > 115$$

(b) Determine the type of test statistic to use.

(Choose one)

(c) Find the value of the test statistic. (Round to three or more decimal places.)

$$2.115$$

(d) Find the p-value. (Round to three or more decimal places.)

$$0.027$$

(e) Can it be concluded that the mean systolic blood pressure among elderly females is greater than 115 mmHg?

Yes No

$$\mu = 115$$

$$\bar{x} = 128$$

$$\sigma = 23$$

$$n = 14$$

$$df = 14 - 1 = 13$$

$$\frac{128 - 115}{\frac{23}{\sqrt{14}}} \approx 2.115$$

$$P(t > 2.115 \text{ with } df = 13) \approx$$

$$0.027$$

Statistics Preview Of Statistics 20 Program

Marco Casella



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