**Paired Samples t test Results Presentation**

**9. APA Style Results Presentation**

It is possible to report paired-samples t-test results in either textual or tabular format, but the tabular format is preferred. Both options are provided below.

**(a) Tabular Format**

Two examples are provided:

* Table 7 shows a t-test for blood pressure data, and
* Table 8 provides results from three t-tests reported simultaneously in one table.

As with the two-independent samples t-test, the written presentation following a table should include first inferential information (whether Ho was rejected) and this should be followed with interpretational information (what the results mean in simple language).

Table 7 demonstrates APA style for the t-test with blood pressure data.

Table 7

*Results of t-test and Descriptive Statistics for Systolic Blood Pressure by Losartan Usage*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Before Losartan |  | After Losartan |  | 95% CI for Mean Difference |  |  |  |
| Outcome | M | SD |  | M | SD | n |  | r | t | df |
|  | 147.25 | 14.72 |  | 137.75 | 12.08 | 8 | 3.02, 15.98 | .85\* | 3.47\* | 7 |

\* p < .05.

Results show a statistically significant difference in mean systolic blood pressure before and after Losartan usage. Blood pressure appears to drop an average of about 9.5 points following the usage of Losartan.

Table 8 shows how to combine results from several paired-samples t-tests performed for the same groups of participants.

Table 8

*Descriptive Statistics and t-test Results for Anxiety, Efficacy, and Persistence*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pretest |  | Posttest |  | 95% CI for Mean Difference |  |  |  |
| Outcome | M | SD |  | M | SD | n | r | t | df |
| Anxiety | 5.80 | 1.89 |  | 6.12 | 1.23 | 45 | -0.48, -0.16 | .75\* | -2.59\* | 44 |
| Efficacy | 5.24 | 1.56 |  | 5.31 | 1.97 | 44 | -0.16, 0.02 | .86\* | 1.98 | 43 |
| Persistence | 6.13 | 1.89 |  | 5.56 | 1.21 | 45 | 0.55, 0.83 | .90\* | 4.89\* | 44 |

\* p < .05.

As displayed in Table 8, there are statistically significant differences, at the .05 significance level, in pretest to posttest scores for anxiety and persistence, but not for efficacy. Results show that anxiety increased, persistence decreased, and efficacy remained unchanged after exposure to the treatment.

**(b) Textual Format**

Results of the paired-samples t-test show that mean systolic blood pressure differs before taking Losartan (M = 147.25, SD = 14.72) and after taking Losartan (M = 137.75, SD = 12.08) at the .05 level of significance (t = 3.47, df = 7, n = 8, p < .05, 95% CI for mean difference 3.02 to 15.98, r = .85). On average systolic blood was about 9.5 points lower after taking Losartan.