**NURG 7003**

**CHOLESTEROL Dataset Presentations**

**SPSS Datasets CHOL1.SAV and CHOL2.SAV**

**Experimental Design**

Sixty-five patients with high cholesterol were studied for eight weeks. These patients received one of the following three treatments: Lipitor, Zocor, or Placebo. In addition, each patient had their age recorded. Total cholesterol (mg/dL) was recorded for every patient at the beginning of the study and at eight weeks. Efficacy of their cholesterol treatment was assessed by the change from baseline (pretreatment) in total cholesterol after eight weeks of treatment. The objectives of the trial were to compare the efficacy of the three treatments and to determine if there was a relationship between the change in total cholesterol values (treatment effect) and age.

**Variables in SPSS Datasets CHOL1.SAV and CHOL2.SAV**

The description of the variables in the CHOLESTEROL datasets is provided in the table below.

|  |  |
| --- | --- |
| **Variable** | **Description** |
| Patient | Patient Number |
| PostCh | Total Cholesterol (mg/dL) after Eight Weeks of Treatment |
| PreCh | Total Cholesterol (mg/dL) at the Beginning of the Study |
| Treatment | Treatment Group Coded as 1 = Lipitor, 2 = Zocor, 3 = Placebo |
| Age | Age (years) at the Beginning of the Study |

**Research Questions**

1. Are the changes in total cholesterol statistically significant after eight weeks of treatment?
2. Are the mean changes in cholesterol after eight weeks the same or different for the three treatment groups?
3. Is there a significant linear relationship between change in total cholesterol and age?

**Oral and Written Presentation Guidelines**

Both the oral and the written presentation should follow APA guidelines as much as possible. There is no minimum or maximum number of pages for the written presentation. Write and present what you need to answer the research questions that you are given. The oral presentation should last about 10 to 15 minutes. The quality and accuracy of the presentations will be of primary importance.

Other specific guidelines concerning these presentations are as follows:

1. Have a separate section of your oral and written presentation for each research question.
2. State the conclusion for each analysis and each research question.
3. State the null and alternative hypotheses for all hypothesis tests.
4. You can cut and paste relevant graphs from your SPSS output. This is an exception to the APA guidelines.
5. Report relevant descriptive statistics and summary tables (DO NOT CUT AND PASTE FROM SPSS) as necessary to describe your analysis results. These tables should follow APA guidelines.
6. Use Tukey’s HSD Test for multiple comparisons when appropriate.
7. Perform all statistical analyses except assumption checking at level α = 0.05.
8. Check all assumptions at level α = 0.01.