Exercise 6: Reporting Descriptive Statistics

Author: Leilani Madrigal

Department of Kinesiology

California State University, Long Beach

Long Beach, CA 90840

Email: Leilani.madrigal@csulb.edu

**Note to the Instructor**: The data set used in this exercise (**Sport Injury and Anxiety**) is data that was collected and put together for the purpose of this exercise module. This exercise uses DESCRIPTIVES to calculate.  A good reference on using SPSS is SPSS for Windows Version 23.0 A Basic Tutorial by Linda Fiddler, John Korey, Edward Nelson (Editor), and Elizabeth Nelson.  You have permission to use this exercise and to revise it to fit your needs.  Please send a copy of any revision to the author. Included with this exercise (as separate files) are the SPSS file necessary to carry out the exercise (SPSS file scales), answers for the exercises (Exercise 6\_answers), and SPSS output for the exercises (Exercise 6\_Output). Please contact the author for additional information.

Attached are files for this exercise:

- SPSS file\_scales (SPSS file)

- Exercise 6\_answers (MS word document)

- Exercise 6\_Output (SPSS output file)

**Goals of Exercise**

The goal of this exercise is to learn how to run and report descriptive statistics of the main variables of a data set in a table format.

**Running and Reporting Descriptive Statistics.**

Now that you have organized your data file, checked for normal distribution and outliers, it is now time to report the descriptive statistics of your main variables. For the purpose of this lesson, descriptive statistics will include the mean, standard deviation, minimum and maximum values. Using the SPSS file\_scales.sav file, begin by clicking on “Analyze” 🡪 “Descriptive Statistics” 🡪 “Descriptives”. Click over “TSK score” to the variables box (hint: you can select multiple at a time, but for this example we will just show one). Click “options”, notice Mean, SD, minimum, and maximum are already selected. You can also obtain the skewness and kurtosis from this process as well. You can click “continue” and “ok”. Your output (displayed below) shows the information for those 4 categories (M, SD, min, max).

|  |
| --- |
| **Descriptive Statistics** |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| TSK\_total | 105 | 15.00 | 57.00 | 38.5238 | 8.98941 |
| Valid N (listwise) | 105 |  |  |  |  |

**Exercise 1.**

Run the descriptive stats for SAS2: somatic anxiety, worry, concentration disruption and RSSIQ: Renewed Perspective and Return Concerns variables and put the relevant information in the table below. When reporting the information, round to the 2nd decimal place (e.g., 45.32232 becomes 45.32)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Mean | Standard Deviation | Minimum | Maximum |
| SAS2- somatic anxiety |  |  |  |  |
| SAS2- worry |  |  |  |  |
| SAS2- concentration disruption |  |  |  |  |
| RSSIQ – Renewed Perspective |  |  |  |  |
| RSSIQ – Return Concerns |  |  |  |  |