Section 1.6 SPSS Data Manipulation

1. Module 1.6

1.1 Section 1.6 SPSS Data Manipulation

Notes:

Now it is time for an orientation to basic use of the SPSS program.
1.2 Learning Outcomes

Learning Outcomes

Demonstrate the basics of SPSS data manipulation and use of the syntax editor.

Notes:

1. Here are the module learning objectives.
2. Remember, the course evaluation you get to fill out will ask whether the learning objectives were appropriately covered and presented.
1.3 SPSS Data Manipulation

Notes:

1. We will cover 4 basic operations commonly used in SPSS for analyzing data.
2. These are the types of features that make SPSS very flexible for conducting a range of statistical analyses.
1.4 SPSS Data Manipulation and Syntax Editor

Notes:

1. In this example, we will recode the continuous variable age into 3 categories, as listed on the slide.
2. The specific SPSS procedures used are listed.
3. Since we are recoding a variable (age), we use the “transform” procedure.
1.5 *SPSS Data Manipulation and Syntax Editor*

### Visual binning of continuous variable

**Example:** Body mass index  
* Put in output name for binned variable  
* Make cut points  
* Equal percentiles based on scanned cases  
* Put in labels for frequency display in bar chart

### SPSS Code

Visual Binning.

**Notes:**

1. In this example, we will take all values of a continuous variable and put them into bins to illustrate the relative frequencies.
2. The specific SPSS procedures used are listed for the variable body mass index.
1.6 SPSS Data Manipulation and Syntax Editor

**Notes:**

1. In this example, we will transform a continuous variable (triglycerides) because it is positively skewed.
2. In SPSS, we first run descriptive statistics which show us that triglycerides are positively skewed.
3. The specific SPSS procedures used are listed with a “log10” transformation being applied to triglyceride values.
4. Since we are recoding a variable (age), we use the “transform” procedure.
1.7 SPSS Data Manipulation and Syntax Editor

Notes:

1. In this example, you will see how to use the SPSS editor.
2. When you use the pull down menus in SPSS to manipulate data are run statistical procedures, the “code” used for these operations is automatically generated.
3. You can save this code and edit it for later use. This is frequently done when you will use a specific analysis procedure repeatedly.
4. The specific SPSS procedures used are listed.
5. Since we are recoding a variable (age), we use the “transform” procedure.
1.8 SPSS Data Manipulation and Syntax Editor

Notes:

1. Here is the actual SPSS code that was created.
2. In this example, we looked at descriptive statistics for the variable age separately by gender.
1.9 Back to SPSS

Back to SPSS

1.10 Re-Code Continuous Variable

Re-Code Continuous Variable
1.11 Visual Binning of a Continuous Variable

Visual Binning of a Continuous Variable

1.12 Transform a Skewed Variable

Transform a Skewed Variable
1.13 Using the Data Editor

Using the Data Editor

1.14 Conclusion

End of Section 1.6