

SPSS Lab 1

Intro and Descriptive Statistics

Demo and Lab Assignment 1

Demo

1. Open SPSS
2. Let's discuss some elements and menu options of SPSS
3. Open spreadsheet ear_missingData.sav
4. Type in the missing values into the spreadsheet using the values below.
5. Modify the variables information according to the data description in file EAR.DOC.

Missing data for new SPSS file:

id	14dys_clear	antibiotics	age	ear
197	1	2	3	1
197	1	2	3	2
198	1	2	3	1
198	1	2	3	2
199	1	2	3	1
199	1	2	3	2

Lab Assignment

1. Create a new SPSS data file Antibio_Yes.sav with the following information

id	hosp_stay	age	sex	temperature	wbc
6	14	82	1	96.8	6
7	30	60	1	99.5	8
13	8	22	2	99.5	11
14	8	33	2	98.4	14
17	7	36	1	99.2	6
19	3	47	1	97	5
22	11	19	1	98.6	14

2. Import file Antibio_No.csv into SPSS
3. Merge Antibio_Yes.sav with Antibio_no.csv by keeping all the field from Antibio_no.csv. Use "Data\Merge Files\Add Cases"
4. Set the values of the antibiotics and bacterial culture field to say "Yes" for 1, and "No" for 2. Do the equivalent with field's sex and service by looking at Hospital.pdf file.
5. Label all variables: In the variables view tab click on "values"
6. Use the frequencies procedure to summarize data by antibiotics only. Then by hospital stay and temperature. Use "Analyze\Descriptive Statistics\Frequencies" click on "Statistics" and select Mean, Median, Mode, Quartiles, Standard Deviation, Variance, and Range.
7. Use the frequencies procedure to draw bar charts for the options in 5. Use "Analyze\Descriptive Statistics\Frequencies\Charts". Click Ok and describe the Statistics.
8. Change the Pivot tables appearances. In the Output Window, double click on a frequency table, notice that the menu also changes. Move columns to different places by clicking on the column header once and then dragging it to a different place. Click on a column name and change it. Try "Pivot\Transpose Rows and Columns."
9. Now create side-by-side boxplots of the temperature by antibiotic usage. Go to Graphs/Legacy Dialogs/Interactive/Boxplot... Drag antibiotic to the x1 axis and temperature to the y axis and click OK. Describe the Boxplots!