

Essay on measures of central tendency and dispersion with spss

[Sociology](#), [Women](#)



I choose AGE variable and prepare SPSS syntax and output:

Syntax:

GET FILE='D: SPSS+ 'SPSSgss04student_corrected. sav'. > Warning.

Command name: GET FILE > SPSS Statistics system file " D:

SPSSgss04student_corrected. sav" is written in a character encoding

(windows-1252) > incompatible with the current LOCALE setting. It may not be readable. > Consider changing LOCALE or setting UNICODE on. (DATA

1721) EXAMINE VARIABLES= AGE /PLOT BOXPLOT HISTOGRAM NPLOT

/COMPARE GROUP /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING

LISTWISE /NOTOTAL.

Now it's time for hypothesis testing. I choose nominal variable " SEX" and

want to check the claim that there is a great difference in average age

between men and women. So, state the hypothesis:

H0: $\mu_1 = \mu_2$

Ha: $\mu_1 \neq \mu_2$

Set the level of significance $\alpha = 0.05$

Now perform independent sample t-test (two-tailed), using SPSS:

Since p-value of the test is 0.442, we can't reject the null hypothesis. We

have no evidence to say about the significant difference in age between men

and women (at the given level of significance 5%). The age is approximately

equal (on average).

References

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Levesque, R. *SPSS Programming and Data Management: A Guide for SPSS and SAS Users*, Fourth Edition (2007), SPSS Inc., Chicago Ill. ISBN 1-56827-390-8

SPSS 15.0 Command Syntax Reference 2006, SPSS Inc., Chicago Ill.

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