

# Instructions for carrying out statistical procedures and tests using SPSS

These instructions are closely linked to the author's book:

**Essential Statistics for the Pharmaceutical Sciences**  
**John Wiley & Sons Ltd <http://eu.wiley.com>**  
**2007**  
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For all references to chapters or tables, see the above book.

**Using SPSS to obtain the  
95% confidence interval for the mean**

## Using SPSS to obtain the 95% confidence interval for the mean

### Example: Table 5.1 Imipramine content (mg) of 9 randomly selected tablets

The figures are simply entered into a suitably labelled column in SPSS and a 95% C.I. is then obtained by following the menus:

*Analyze / Descriptive Statistics / Explore ...*

Transfer the appropriate column name into the 'Dependent List' box.

Finally, confirm the request by clicking 'OK', which will produce the following output:

		Statistic	Std. Error	
Imipram	Mean	25.322	.2691	
	95% Confidence Interval for Mean	Lower Bound	24.702	
		Upper Bound	25.943	
	5% Trimmed Mean	25.308		
	Median	25.200		
	Variance	.652		
	Std. Deviation	.8074		
	Minimum	24.2		
	Maximum	26.7		
	Range	2.5		
	Interquartile Range	1.4		
	Skewness	.409	.717	
	Kurtosis	-.621	1.400	

To the side of '95% Confidence interval' we are shown the Lower and Upper bounds.

The 95% CI for the mean imipramine content is 24.70 to 25.94mg. (For further explanation see Chapter 5)