

Instructions for carrying out statistical procedures and tests using Minitab

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

Essential Statistics for the Pharmaceutical Sciences
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For all references to chapters or tables, see the above book.

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

Using Minitab to obtain the 95% confidence interval for the mean

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

To analyse the imipramine data, they are entered into a column of Minitab and given an appropriate column title. The 95% C.I. is then obtained by following the menus:

Stat / Basic Statistics / 1-Sample t ...

You are then faced with the familiar pattern. A box on the left lists all the columns that contain data and you enter the name of the relevant column in another box ('Samples in columns') to the right. Finally, confirm the request by clicking 'OK', which will produce the following output:

One-Sample T: Imipram					
Variable	N	Mean	StDev	SE Mean	95% CI
Imipram	9	25.3222	0.8074	0.2691	(24.7016, 25.9429)

We are informed that it is the data in the 'Imipram' column that has been analysed. The number of observations, mean, SD and SEM are then provided. Finally, the figures in brackets are the lower and upper limits of the 95% confidence interval for the mean.

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