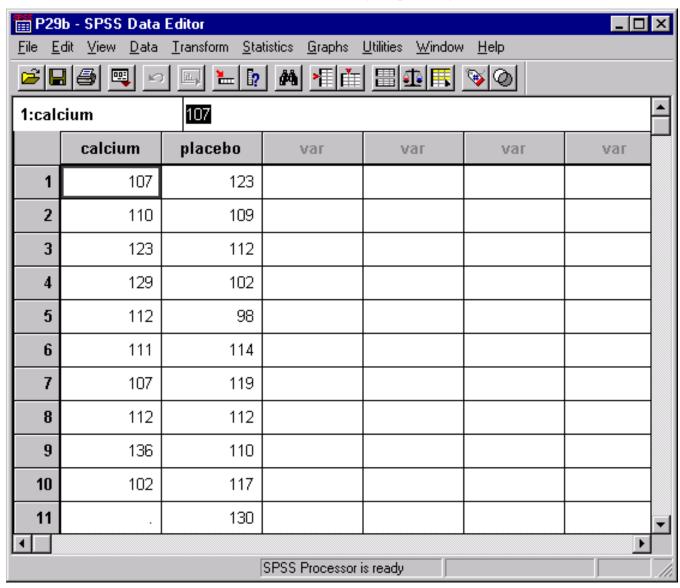
SPSS Chapter 1 Example 2 – Normal Probability Plots

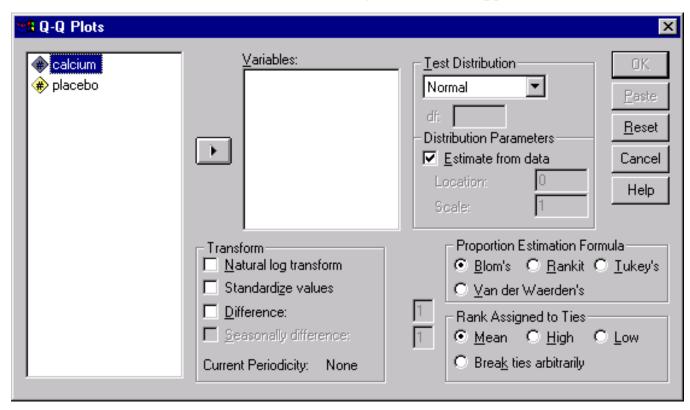
Is there evidence that calcium in the diet lowers blood pressure? Two groups are considered: a calcium supplement group (coded as "calcium") and a placebo group (coded as "placebo"). We want to see whether the blood pressure readings from the groups are normally distributed. Thus, we construct a normal probability plot (SPSS calls this a Q-Q Plot). The data for both groups are given below:



We now produce a Q-Q (or normal probability) plot using the SPSS statistical package.

Follow these steps to produce this plot:

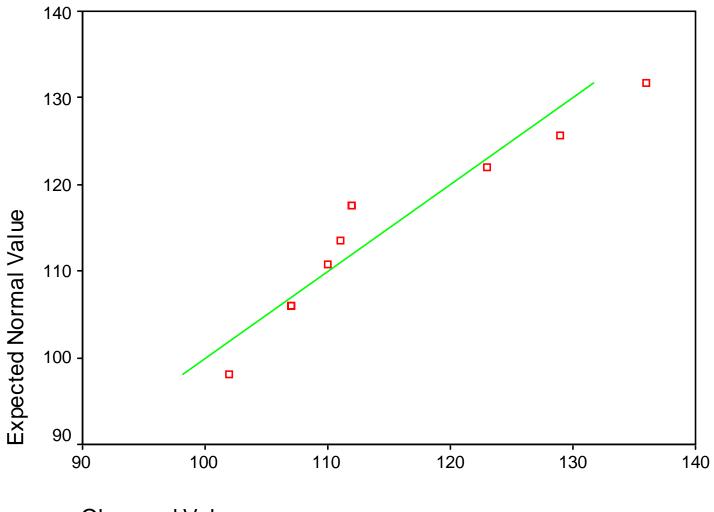
1. Click **Graphs** and click **Q-Q**. The following window will appear.



- 2. Click the button and "calcium" will appear in the box entitled *Variables*. Click "placebo" and click the button and "placebo" will appear in the box entitled *Variables*.
- 3. Click OK.

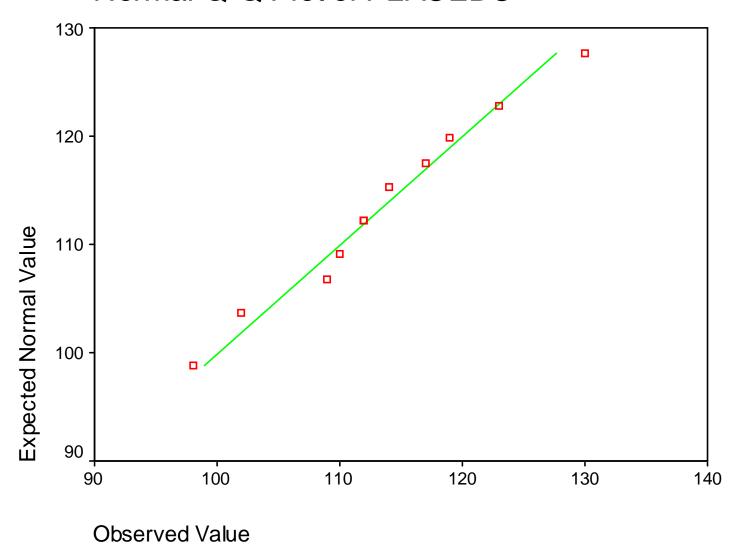
The SPSS output for this example of a Normal Quantile Plot is as follows:

Normal Q-Q Plot of CALCIUM



Observed Value

Normal Q-Q Plot of PLACEBO



Both calcium and placebo groups seem to have data that come from a normal distribution.