Compare Groups: Decrease by Treatment

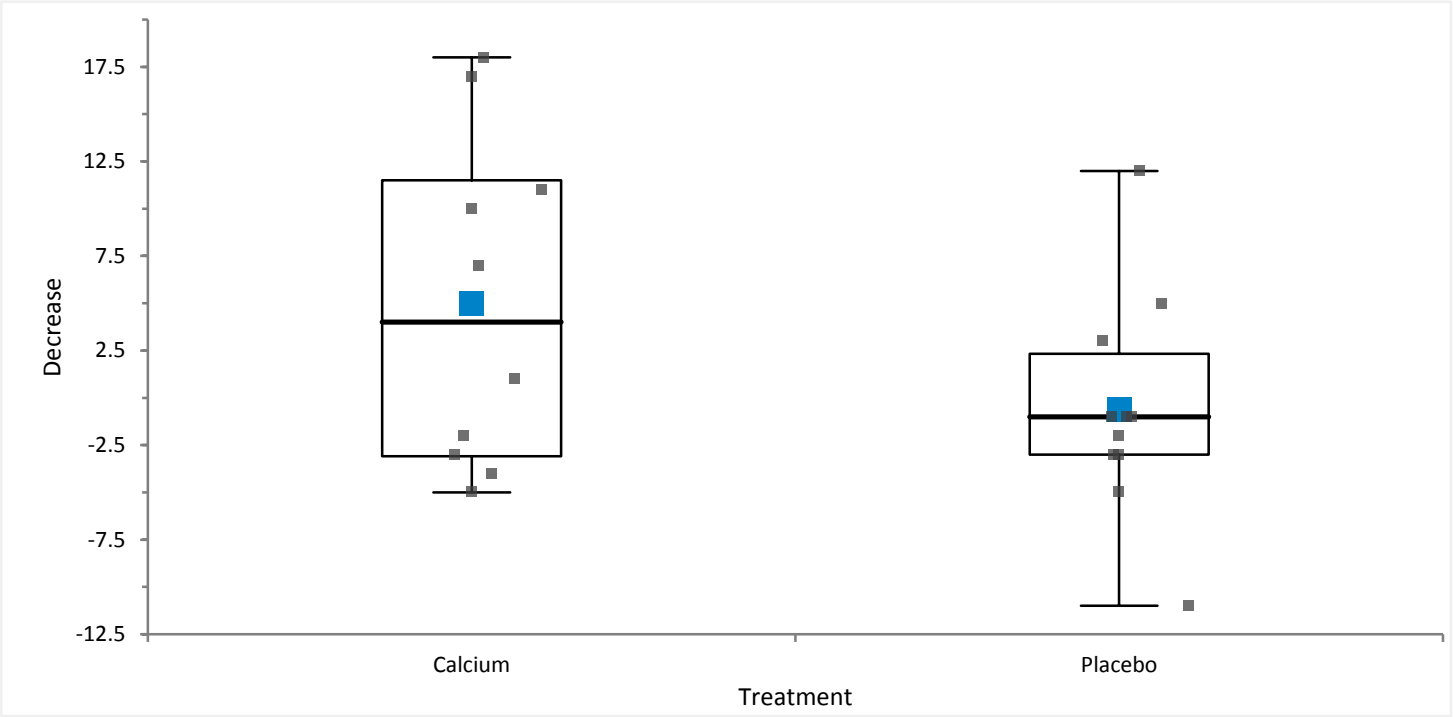
Analyse-it v4.60

Calcium and Blood pressure

http://lib.stat.cmu.edu/DASL/Stories/CalciumandBloodPressure.html

Last updated 2 February 2016 at 11:39 by Analyse-it Software, Ltd.

Descriptives



N	21

Decrease by Treatment	Minimum	1st Quartile	Median	3rd Quartile	Maximum	Inter-quartile range
Calcium	-5	-3.1	4.0	11.5	18	14.6
Placebo	-11	-3.0	-1.0	2.3	12	5.3

Dispersion

Variance ratio	0.45
95% CI	0.11 to 1.70

$\lambda = \sigma^2_{Placebo} / \sigma^2_{Calcium}$

Fisher F test

Hypothesized ratio	1
F statistic	0.45
Numerator DF	10
Denominator DF	9
p-value	0.2304[1]

H0: $\lambda = 1$

The ratio of the variances of the populations is equal to 1.

H1: $\lambda \neq 1$

The ratio of the variances of the populations is not equal to 1.

[1] Do not reject the null hypothesis at the 5% significance level.

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Location

Mean difference	-5.6
95% CI	-12.4 to 1.1
SE	3.22

$\mu_\Delta = \mu_{Placebo} - \mu_{Calcium}$

Student t test

Hypothesized difference	3
t statistic	-2.68
DF	19
p-value	0.0148[1]

H0: $\mu_\Delta = 3$

The difference between the means of the populations is equal to 3.

H1: $\mu_\Delta \neq 3$

The difference between the means of the populations is not equal to 3.

[1] Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.