

Shuffle the Deck

A pharmaceutical company is testing a new drug for diabetes patients. Due to various side-effects, they start with a very small sample, ten subjects for their first trial. The subjects take the medication with their evening meal. After the meal they test their blood sugar (mg/dL). The hope is that the blood sugar levels will be lower with the new medication. Five subjects were kept in a control group and five took the medication, randomly assigned. Here are the data.

treatment	185	163	125	151	101
control	190	175	178	135	201

Make ten slips of paper (3x5 cards work well) with each of the ten blood sugar levels written on them. Shuffle. Randomly assign five cards to the treatment group and five to control. Calculate the mean difference between the groups. Repeat. 25 times!

- Graph the mean differences you obtained. You should have 25 such differences. Indicate on the graph the difference from the actual experiment lies.

- What do you conclude? Is the difference observed in the experiment one that could have happened by random chance? Or does it appear that the difference is unusual and was due to the medication being administered to the five subjects?

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