

Homework 1

To submit via e-mail by h 14:00, May 3 (preferably in RMarkdown format, including the R code)

1. Below are diastolic blood pressures (mm Hg) of ten patients before and after treatment for high blood pressure. Test the hypothesis that the treatment has no effect on blood pressure using a Wilcoxon signed-rank test:

- (a) using the exact significance level
- (b) using a normal approximation.

Discuss briefly.

Before: 94, 105, 101, 106, 118, 107, 96, 102, 114, 95

After: 96, 96, 95, 103, 105, 111, 86, 90, 107, 84