HUDM 5026 - Introduction to Data Analysis and Graphics in R

HW 04 – Functions and Sample Statistics

Instructions.

- Use R Markdown to create an html document with the homework tasks.
- You are encouraged to discuss problems with classmates, but all work you submit must be your own.
- As always, any plots should have appropriate axis and overall labels.

We will continue working with the acupuncture data set we examined in class this week. See the notes for details.

- 1. Find the minimum (see function min(), 1st quartile (i.e., 25th percentile; see function quantile(), median (see function median(), 3rd quartile (i.e., 75th percentile; see function quantile()), and maximum (see function max() values of pk1 and pk5.
- 2. Write a function that calculates the min, Q1, median, Q3, and max values of a vector. Then, apply the function to age, sex, migraine, chronicity, pk1 and pk5.
- 3. Summarize the output from the last item in a table. Use R Markdown to make a table see here.
- 4. Write a function that plots a boxplot of a vector and also reports the min, Q1, median, Q3, and max. Then apply the function to pk1 and pk5. Tip: use your function from the last part to help you write this function.