Chapter 1 Notes – Analyzing Patient Data

1. Objectives
   1. Read tabular data from a file into a program
   2. Assign values to variables
   3. Select individual values and subsections from data
   4. Perform operations on a data frame of data
   5. Display simple graphs
2. Loading Data
   1. We need to set the working directory using
      1. setwd(“~/Desktop/r-noviceinflammation/”)
   2. We can read a CSV file using
      1. read.csv(file = “some file name”, header = False)
      2. The two arguments are the file name and if the first line of the file contains names for the columns of data
      3. The default value is header = TRUE
3. Creating a variable
   1. An example of instantiating a variable is
      1. weight\_kg <- kg
      2. <- is similar to = in python
   2. Variables are static
      1. They need to be assigned another value if you want the value to change
   3. Variables are compatible with arithmetic operations
      1. Division, multiplication, addition, subtraction, etc.
   4. Naming convention
      1. Using the . can be used in a variable
         1. i.e. “weight.kg”
4. Manipulation of data from CSV files
   1. head(dat)