Index to R/RStudio Workbook

**20160608:13.47**

This is the index to a workbook which consists of a set of modules in medical statistics.

It assumes no knowledge of statistics or programing.

It is designed to guide the reader through all the steps required install a computing environment which will allow them run simple statistical analyses in R and to familiarize themselves with the R programming environment in order to then progress to more complex statistical programming.

## Modules

Click in links below:

1. [What is R?](01What%20is%20R.pdf)

The purpose of this module to give you some background information about R, how and why it was developed, and what it is designed to do

1. [Installing R and RStudio](02Installing%20R%20and%20RStudio.pdf)

The purpose of this module to guide you through the process of installing R and RStudio. Everything that you need is available on line free of charge.

1. [Introducing RStudio](03Introducing%20RStudio.pdf)

This module is designed to provide you with:

* A basic understanding of RStudio as an Integrated Development Environment and its key features
* An understanding of the four panel layout of RStudio and the functions of each of the panels
* The ability to use simple arithmetic, algebraic and logical operators in R
* The ability to load in a CSV file from a web based address using the Import wizard
* The ability to set the Working Directory
* An understanding of .R and .Rdata file types
* The ability to load and run R scripts

1. [Creating Vectors and working with them](04Creating%20vectors%20and%20working%20with%20them.pdf)

This module is designed to enable you to:

* Create, write, name and save R scripts
* Understand when and how to use the colon operator, and ‘combine’ c() and ‘sequence’ seq() functions
* Understand what is a vector and how vectors can be used
* Know how to find ‘help’ using the various inbuilt R and RStudio mechanisms
* Understand ‘command completion’ and how to use it
* Have a basic understanding of how the data in a vector can be viewed