

Health Science Statistics using R and R Commander by Robin Beaumont

Chapter 14 Boxplots

Learning Outcomes

*** = more advanced outcomes**

Learning outcome	Tick box
Be able to explain and provide examples of variables with different levels of measurement (glossary entry levels of measurement)	q
Be able to load a tab delimited dataset using the appropriate R Commander menu option/dialog box options (repeat of chapter 12 learning outcome)	q
Be able to select the appropriate R Commander menu/dialog box options to produce boxplots	q
Be able to interpret a boxplot in detail explaining; median, interquartile range (relationship to standard deviation) whiskers and outliers .	q
Be able to provide interpretation between subgroups	q
Be able to annotate R code generated by R Commander to change the box color (<i>col=</i>) or the width of the median line (<i>medlwd=</i>)	q
Be able to select the appropriate R Commander menu option/dialog box option to allow the interactive identification of outlier case numbers	q
*Be able to create R code using the <i>boxplot()</i> function with either the <i>split()</i> function or the "is modelled by" operator <i>~</i> to create boxplots	q
*Be able to explain and use the <i>Boxplot()</i> function, and outlier identification options in the <i>car</i> package	q