

Observation

Based on the given data set we can see from the scatter plot that weight plays a factor in comparison to the drugs effect on tumor volume. The mice that weighed more appear to have less of a decrease in tumor volume and the mice that weighed less showed to have a decrease in tumor volume.

We can also see from the boxplot that there is a significant difference in Capomulin compared to Infubinol and Ceftamin. While Ramicane appears to be the most successful, Capomulin is quite comparable next to Ramicane.

The mice study showed that there was a close balance between male and female distribution with male making up 51% and female making up 49% of the sample. Based on duplicated data, there was only one mouse that appeared several times within the dataset but still remained a part of the study after removing its duplicates.