The first observation is by looking at total number mouses being taken with the various drugs. It indicates that the majority of tests were carried out on mouses with Capomulin and Ramicane.

Table

Description automatically generated with medium confidence

The second observation is looking at the summary statistical table containing the mean, median, variance, standard deviation and SEM of the tumor volume for each drug below. It shows that Capomulin have the lowest mean among all the drugs. However, Ramicane which is next heaviest tested drug have the lowest median, variance, standard deviation and sem values. Please refer to the fifth and final observation for their comparison.

Text

Description automatically generated

The third observation is by looking at the pie showing the distribution of sexes of mouses been tested and it indicates it is a pretty impartial test not heavily skewing to one type of the sex.

Chart, pie chart

Description automatically generated

The fourth observation is by looking at the box plot of the final tumor volume of each mouse across four regimens and it indicate all of the tumor volumes were pretty much within their given ranges and no outlier was discovered apart from the only one identified in Infubinol.

Chart, box and whisker chart

Description automatically generated

The fifth observation is by the correlation coefficient and linear regression for mouse weight and average tumor volume for the Capomulin regimen as represented by the diagram below. The calculated r value is 0.84 which has a strong positive correlation, i.e. as one increases the other also increases, between the weight of the mice were taking the Capomulim and their respective tumor volumes.

Chart, scatter chart

Description automatically generated

The final observation is by the correlation coefficient and linear regression for mouse weight and average tumor volume for the Ramicane regimen as represented by the diagram below. The calculated r value is 0.80 which also has a strong positive correlation but is a lower than the counterpart value of Capomulim.

Chart, scatter chart

Description automatically generated