Top-Level Summary of the Study Results

Data overview:

There are 249 distinct mice in the study. There are 10 drug Regimen’s used. There are slightly more male mice in the study than there are females, by 1. There are 10 drugs used on the mice. Max Tumor volume (mm3) average is 56.94, min is 45 max is 78.57.

Interpretation:

From the **line chart**, tumor volume vs. time point, it overall tumor volume goes down even as time increases.

From the **box plots,** I would say that Ramicane should be the drug of choice as there aren’t any outliers, the data is more evenly spread and while the data is slightly skewed towards the 75th or Q3, the median is still lower than the median from the drug Capomulin. Infubinol has an outlier. Tumors were generally smaller on mice that used Ramicane.

From the **scatter plot**, we can see there’s a strong correlation between weight and tumor volume that is, the more the mouse weighs the larger the tumor volume. But it seems to be slightly more of a relationship between 21-23 as there are more data points there. However, the trend is an even trend having about the same number of points on each side of the line and consistently scattered indicating a strong correlation.