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Challenge 5 Pymaceuticals Observations

This data set covers a study that identifies 249 mice with squamous cell carcinoma (SCC) tumors. These mice were provided with varying treatments and each of their tumor development was observed and measured.

One finding is that the time observations of varying regimens was slightly skewed. Of the studied mice, Capomulin and Ramicane seemed to be the treatments that were observed the most. This was displayed with the “Number of Measurements for Each Drug Regimen” bar graph.

It is also important to note that the ratio of male to female mice were relatively even. However, it is unclear whether each treatment’s efficacy differed with the gender of each mouse. This was shown with the “Distribution of Female vs. Male Mice” pie charts.

Lastly, it was revealed that there seems to be a strong positive correlation between the mouse weight and average tumor volume. Because this finding was specifically pulled from the Capomulin regimen, this result may differ with the other varying treatments. This observation can be seen with the “Mouse Weight vs. Average Tumor Volume (Capomulin Regimen)” scatter plot that includes a line regression.