Matplotlib Homework 3 Observations, Emily Boling

**Observation #1**

Ramicane suppressed tumor growth the most out of all the drug treatments, you can see this on the graph below when charting the standard errors of tumor volume, also seen later in the percent tumor change.

A close up of a map

Description automatically generated

**Observation #2**

Ketapril and Placebo treatments had the largest growth of metastatic sites. Katepril had some effect on the spread of tumor cells but you can see by the end of the experiment the results were very similar indicating the drug only had minimal tumor suppression

A close up of a map

Description automatically generated

**Observation #3**

Capomulin and Ramicane drug treatments had the highest rate of mouse survival. Over 80% of mice survived the Capolmulin treatment (only 4 mice died) while Ramicane resulted in about 80% of mice surviving (only 5 mice died).

A screenshot of a cell phone

Description automatically generated

This is further shown when plotting the two best treatments with the third and fourth best treatments, you can see that Capomulin and Ramicane reduced the tumor sizes while the remaining treatments resulted in tumor growth:

A screenshot of a cell phone

Description automatically generated

Capomulin resulted in an 20% reduction of tumor size, followed closely by Ramicane. The next best treatments actually increased tumor size by > 40% (Ceftamin and Infubinol)