We want to know the association between the different types of nursing home ownership and the quality measure rating.

On the first graph, we are simply showing the quality measure rating each nursing home received; For profit on the left, government in the middle of the graph and nonprofit on the right.

The differences in the for-profit subtypes: “Corp”, “individual” and “LLC” is minimal, with “Partnership” sub-type nearly 1 point above the others. Similarly, there is also minimal difference between nonprofit sub types “Church related” and “Other” while “Corp” is nearly 1 point higher.

The two government owned subtypes seem to be the min and the max with a big disparity. What created such a large gap between quality measures? One hypothesis: Could having a higher amount of fines lower the quality measure rating? A bar graph with the only 2 government owned nursing homes in Oklahoma shows a stark contrast in fines. The city nursing home has no fines while the county nursing home has a little over $10,000.

We then calculated correlation between the quality measure rating and the total amount of fines which came to -0.11; an extremely small negative correlation as the scatter plot shows. Normally, one would expect the fines to decrease as the quality measure rating increases, but there are many outliers that do not follow the trend. The hypothesis could not be proven.