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# Healthcare Outlier Payment Costs

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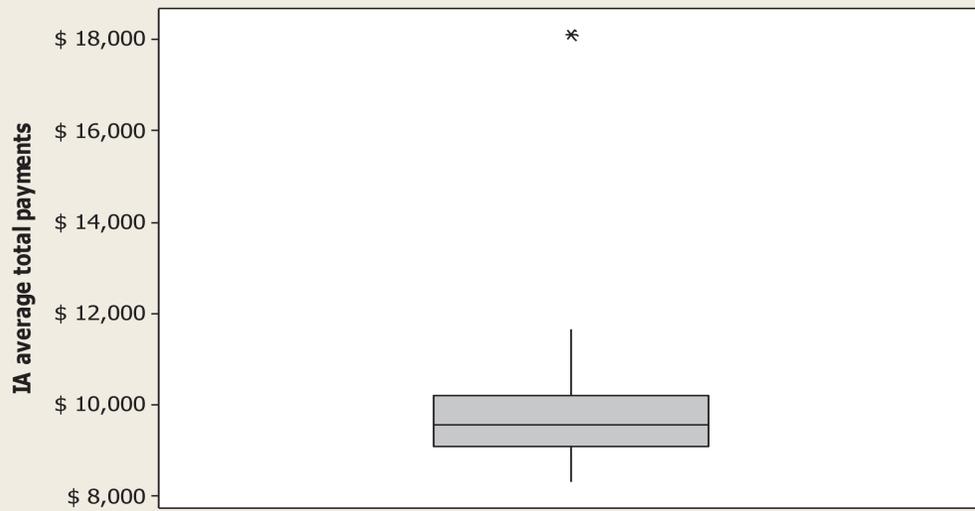
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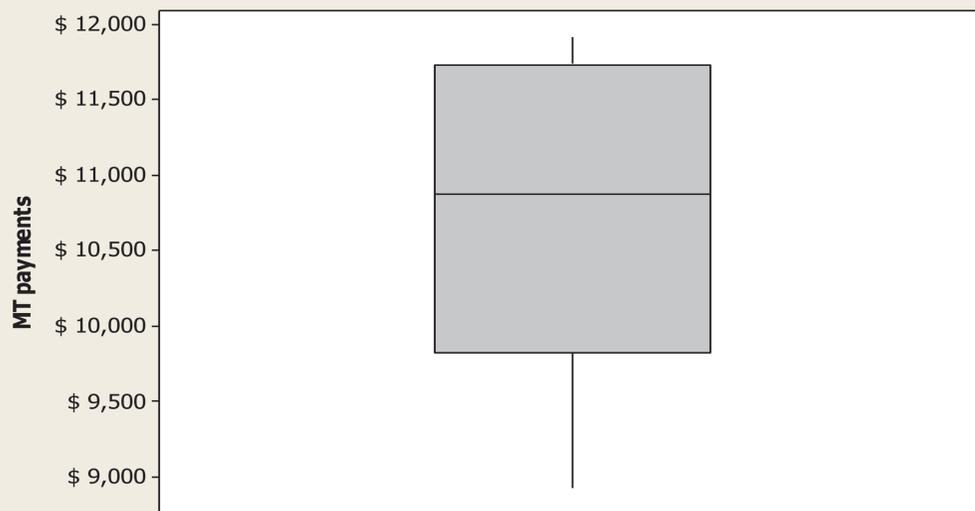
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# Healthcare Outlier Payment Costs

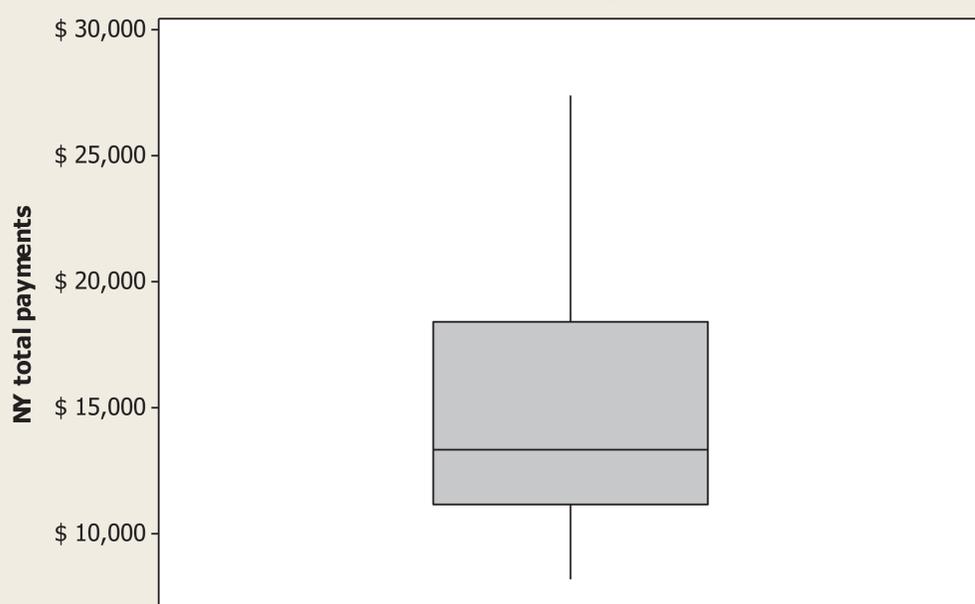
Boxplot of IA average total payments



Boxplot of MT payments

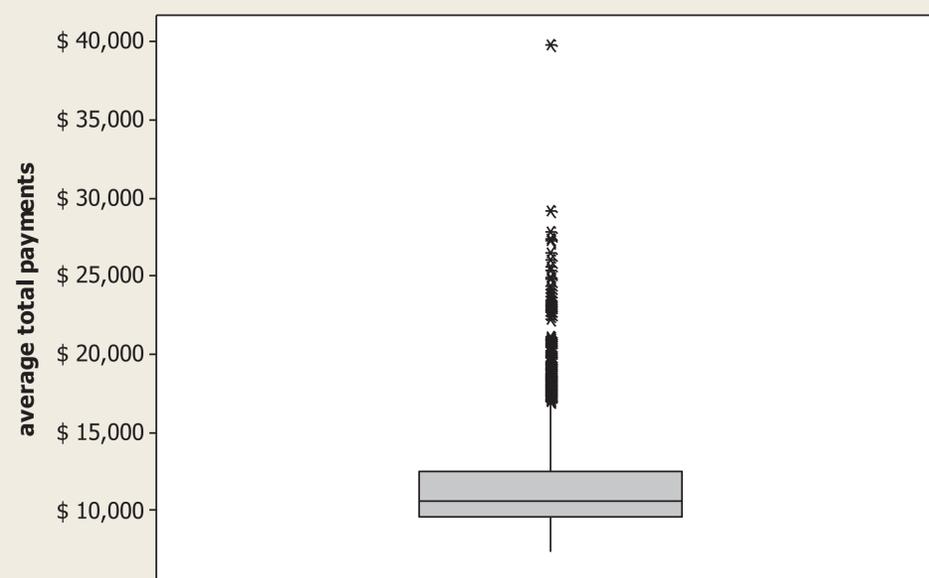


Boxplot of NY total payments



For this project, we had to use boxplots to find out if Montana could raise the prices of payments made by patients who have more medical problems than other patients. We called those patients outlier patients since the cost of their medical bill is higher than most other patients. The first thing we did was create box plots for total charges and total payments made in Montana, New York, Iowa, and the United States. Then we compared each state's graph to the nation's graph. What we discovered was that the nation's median total payment was higher than Montana's median. Our task for this project was to raise Montana's total charge median to no more than \$48,000 per outlier patient. To do that, we started out by comparing Montana's total charge median to New York and Iowa's medians. Iowa's median was lower than Montana's median, so we couldn't use their price. New York's median total charge, however, was approximately \$10,000 more than Montana's median total charge. So we decided to raise the total charge in Montana by about \$10,000 to make the charge \$34,000.

Boxplot of average total payments



new outlier payment	\$163,200.00
orig. outlier payment	\$65,232.00
total difference	\$97,968.00
new average charge	\$34,000.00
original average charge	\$24,420.00
total difference in charge	\$9,580.00

By Alyssa & Kenzie