3a. A graph with numbers and dots

Description automatically generated

This scarterplot shows a positive correaltion between the time and charges in the Highland Urgent Care Clinic. We made a scaterplot because both of the variable in x and y axis is an interval continous. As the gradient is increasing as we move towards the right, there is a strong relationship between the time and charges. The average of charges in dollars is $73.69 and of time is 77.93min. The median of the charges is $65.89 and the median of the time is 72 mins.

> summary(input.data$ChargesInDollars)

Min. 1st Qu. Median Mean 3rd Qu. Max.

24.41 54.47 65.89 73.69 101.15 127.67

> summary(input.data$VisitTimeInMin)

Min. 1st Qu. Median Mean 3rd Qu. Max.

17.00 57.75 72.00 77.94 106.00 161.00

The minimum time patient has spend is 17 minutes and maximum time is 161 minutes. The range is (161-17) minutes, the time spent through out.

The minimum charge is $24.41 and maximum charge is $127.67. The range has been spread in the charges for (127.67-24.41)minutes.

The scarterplot shows that the people who spends the most time in the urgent care definetly spends more money.

b. A graph of different colored squares

Description automatically generated

Here is the bar chart of showing each insurance how much avergae they have. The highest is A1 PPO, pays the highest. And the lowest is BCBS.

Insurance Average-Charge

1 A1 PPO 90.95925

2 BCBS 59.02340

3 Medicaid 66.73700

4 Private 78.28314

c. A graph of a number of different colored bars

Description automatically generated with medium confidence

This barplot shows the different insurance and how much is to be paid after the deductibles. The highest that is to be paid is by the A1 PPO and the lowest is to be paid by BCBS. The insurance differece is not much between one and the other however, the insucrance is not much.

2. What I have learned methods and techniques:

a. Aggregate: It is a really important real life skills we need to be able to calcualte the mean of the some datas in different category.

Interesting to know the average.

I would apply this when I want to know the average expeses of my life, and find the most expensive expenses.

b. Visualization: It is quite interesting to see the number give a shape, that way it is easier for us to see the graphs, pie charts, bargraph.

Intersting to see the data take a shape.

I would apply this in our project to see the grphs, chart abouts which company pays the highest amount only by graphs.

c. Types of data; Categorical and interval and the types of it inside it was something I had superficially learned in the past. But being able to divide the data into what category and find the use of data according to its category such as catgorical nominal use bar chart is useful.

I would use this also in our group project to find a suitable match such as either histogram or bar chart according to our kind of data.