**BMI status**

Chart, histogram

Description automatically generated

From our data we found that most of the people are overweight (BMI over 25)

Chart, bar chart

Description automatically generatedChart, bar chart

Description automatically generated

From the normalize graph (on the right) we found that people who are overweight are more likely to have stroke. In addition, people who are underweight are less likely to have stroke.

Smoking Status

Chart, histogram

Description automatically generated

In our data, there are more people that never smoked in their life than people who formerly smoked or still smoking

Chart, bar chart

Description automatically generatedChart, bar chart

Description automatically generated

We found that from our normalized data (on the right), people who formerly smoked have higher probability to have stroke compared to people that never smoked or still smoking.

**Multivariate smoking status vs bmi vs stroke**

Chart, box and whisker chart

Description automatically generated

From the boxplot, we can see that from people who smokes, the range of BMI for Q1 and Q3 of the boxplot is bigger than people who formerly smokes and never smokes. From this we can make an assumption that people who have normal BMI and smokes are more likely to get stroke compared to people who have normal BMI and not smoking.