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Smoking and Non-smoking

Mothers in Birthweight A Report

As Evaluation

## Conclusion

The findings are statistically significant because they portray that in this particular spot in California smokers did have lesser birthweights and that data isolates all factors but location.

### Intro

The title gives an accurate description of the data as it covers the necessary information in brief. The main points are described brief and succinct. The data was a subset of data, gathered from Child Health and Development Studies the subset was from a place in California. This data could be interpolated to other places given that smoking in this place in California is no different than smoking anywhere else for the most part. Though it would be better to have the full scope of the data. California gives a somewhat good picture.

## Analysis

The difference in birthweights means is about one Standard deviation of difference, leading one to believe there in not enough difference to count, however one must take note of the subtlety of the effect that smoking would in theory have, and the large sample size needed to prove something as subtle as such. When considering that subtlety of effect smoking a cigarette would have one would want to see a large sample size (like the data acquired). With a large sample size, you can glean subtle detail like this. The Skewness would show the augment smoking would have if any. In this case it does. The difference in skew in a large sample size (in this case 1000+) is enough to imply a causal relationship between smoking and birthweight. The five-point summary shows a clear raise in birthweight in smoking mothers. All the values are lower than their non-smoking counterparts and this also implies causal relationship.

In the Histogram view the dis-similarity in kurtosis reflects the information we see in the summary statistics. The histogram looks like it was shifted up in the Non-smoking mothers. This again proves the same causal relationship. The min and max are both higher on the nonsmoking mothers chart.

# Abstract

This study uses statistical methods to determine if the decision to smoke effects birthweight.

### Statistics

Descriptive statistics of birth-weights for non-smoking mothers:





Descriptive statistics of birth-weights for smoking mothers:





