

# Plotting B.C. COVID-19 Case Number in October against Day

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## 1 Introduction

Starting from the end of 2019, coronavirus has swept into many different countries around the world, including Canada. British Columbia, as one of the most populous provinces in Canada, has been seriously affected by COVID-19. Here we use the data from BC Center for Disease Control to visualize the provincial COVID-19 case trend in October 2020. After creating a chronological plot for B.C.'s case numbers in October, a clear trend of increasing daily cases can be observed.

## 2 Methods

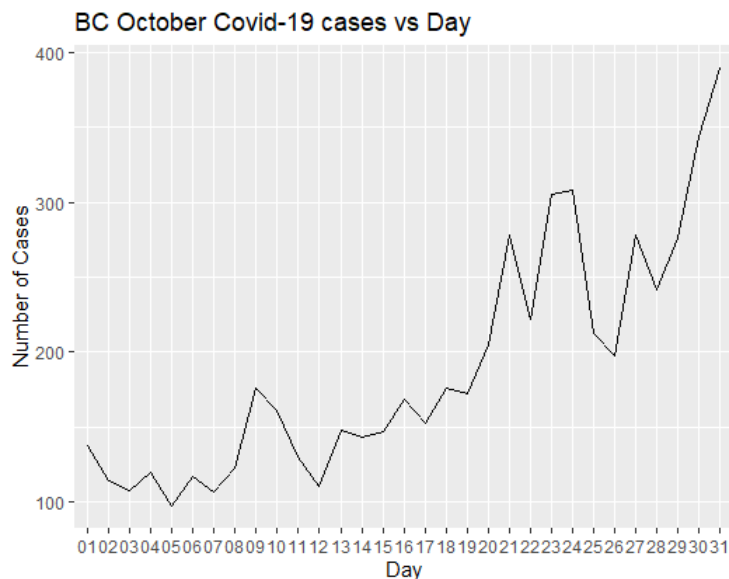
### 2.1 Data Collection

The data on COVID-19 cases in British Columbia is collected from BC Center for Disease Control. Only the case data for October 2020 is processed and plotted in this analysis.

### 2.2 Plotting

In order to visualize the trend in the provincial COVID-19 cases in October, a time series plot is created. In the time series plot, the days in October is used as the explanatory variable and the daily reported case number in B.C. is used as the response variable.

### 3 Result



### 4 Conclusion

In October 2020, the daily reported COVID-19 case number in B.C. fluctuates from day to day, but the plot shows an overall upward trend throughout the whole month. It is worth noting that the daily case number increased rapidly at the end of the month, rising from 242 cases/day to 390 cases/day in 4 days (from Oct 28 to Oct 31).

However, the plot is not reliable enough because it is drawn based only on the case data for October. In order to gain a better understanding of the trend in B.C.'s provincial COVID-19 cases, further investigation of larger dataset is necessary.