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## **Ohio County's Level of Corona Virus Cases in Relation to Demographic Characteristics**

Michail Haswani

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## **Ohio County's level of corona virus cases in relation to Demographic Characteristics**

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COVID-19, the disease caused by the novel coronavirus SARS-CoV-2, was first described in Wuhan, China in 2019. Since then, it has become a pandemic. There are several factors that likely contribute to its rapid spread. This study examined the correlations between different demographic characteristics and the number of COVID-19 cases and deaths, by investigating data in the 88 counties of Ohio. We searched for credible sources that include the demographics and the COVID -19 data, including land area, population, age, education level, unemployment rate and income, and the number of cases and deaths of COVID -19. Results showed a strong correlation between the population size and the number of cases and with the number of deaths. Moreover, the correlation is high for the population in all age groups, which seems to indicate the COVID -19 infects counties similarly regardless of their age group composition. However, since we were unable to obtain the breakdown of the number of cases and deaths in various age groups, further study is needed to investigate the effects within various age groups. Additionally, the analysis identified a moderate correlation between the education level and the number of cases and deaths. Finally, we did not find correlation between other characteristics including land area, unemployment rate, and income, and the number of cases and deaths.