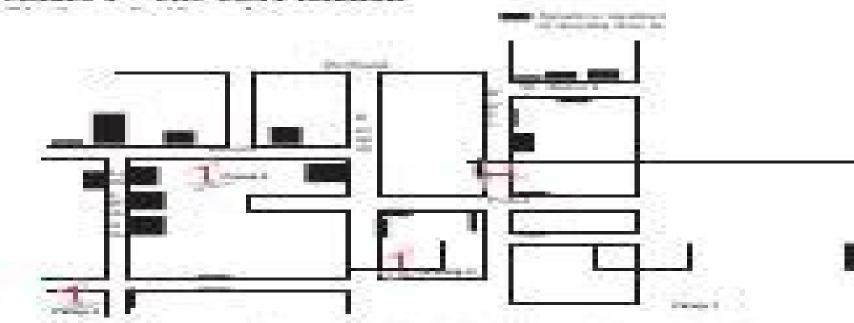
The Spread of Pathogens

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with pre existing conditions may experience severe symptoms of high fever severe cough pneumonia and even death WHO 2020 In the United States alone an estimated 88 044 073 cases have occurred since the start of the epidemic Worldometer 2022 Early strategies to handle the epidemic included temporary sheltering in place orders and many institutions including schools and universities shifted to online strategies to ensure continuity in learning As these entities later sought to fully reopen and regain a sense of normalcy many were tasked with establishing monitoring systems to help detect potential outbreaks The use of wastewater based surveillance was evaluated as a tool in helping to identify when and where student polymerase chain reaction PCR testing should be conducted Here we utilized wastewater based epidemiology by sampling dormitory wastewater thrice weekly during Spring and Fall 2021 Data obtained from this sampling was used to help identify potential cases of COVID 19 in dormitories Additionally as vaccines were developed and distributed the relationship between vaccination rates and COVID 19 cases on campus was investigated Lastly students attitudes and behaviors toward the virus were also evaluated by administering an online survey tool designed through REDCAP systems This survey utilized a Likert scale where possible to aid in analysis and comparison of student responses between Spring 2021 and Fall 2021 semesters Results from this study found significantly higher concentrations of SARS CoV 2 in wastewater were observed during the Spring relative to the Fall semester Dorms with higher numbers of COVID 19 cases also had higher concentrations of SARS CoV 2 in their wastewater A significant inverse relationship was observed between vaccine rates and student COVID 19 cases As vaccinations rates increased within the dormitories the number of student cases decreased Students became more receptive to the vaccine in the Fall semester in comparison to the Spring This change in attitudes may have helped the University s vaccination rates in the Fall semester thus affecting student COVID 19 rates Here we saw students a significant difference in virus perception between Spring 2021 and Fall 2021 semesters Specifically a lower number of students having a negative perception of the virus Additionally students reported having less restrictive behavior e g visitors mask wearing in Fall 2021 compared to Spring 2021 Overall this study showed that universities may successfully use surveillance techniques such as wastewater based epidemiology to help determine when swarm testing of students should be initiated It also provided evidence that vaccination campaigns may have helped to reduce the incidence rate of COVID 19 on campus Gaining an understanding of how students feel and behave regarding the threat of disease outbreaks the implementation of various preventative measures and the effects that changes in educational delivery platforms may have on learning and social interactions are also important for developing successful programs to mitigate the spread of diseases The Spread of Disease [chart-large].,2000

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