

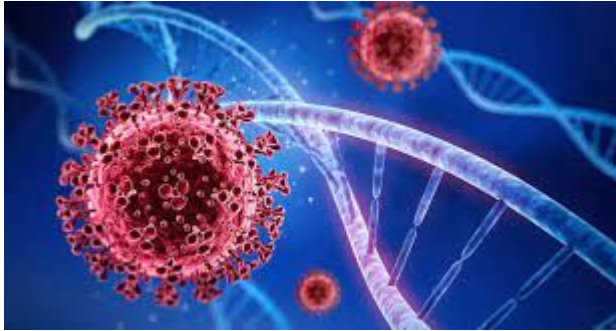
CCAT



Team Members:
Andrew, Connor, Kole, Emma

Team Goal:

Our team goal is to look at the mitigation of COVID-19 outbreaks with the vaccine. Specifically, focusing on the transmission rates and recovery rates.



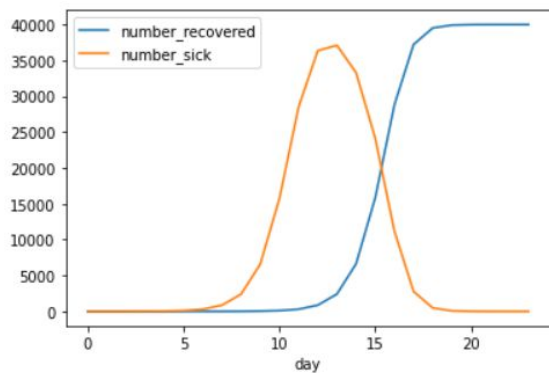
Results

The curve has flattened, demonstrating a decrease in the instances of COVID cases per day with a vaccine vs without. The curve also flattens based on the percentage of the population vaccinated.

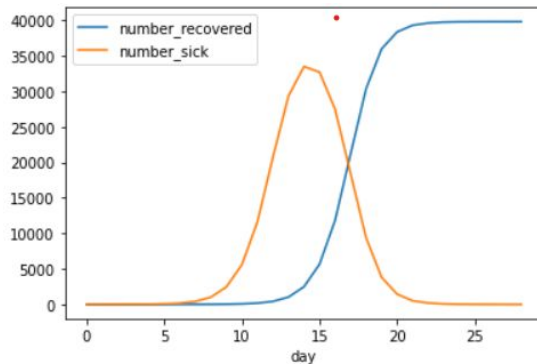
Population: 40,000

Interaction a day: 5

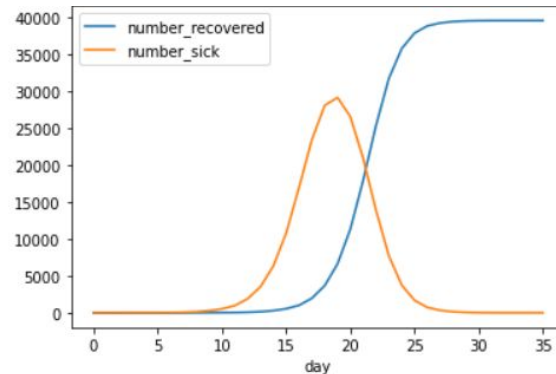
0% Vaccinated



50% vaccinated in the population



100% Vaccinated



Outside of our scope:)

Mitigation Reference

<https://www.nature.com/articles/s41467-021-21385-z>

385-z

Fig. 1: A stochastic model for COVID-19 disease progression, transmission and intervention.

