Quick note

Hello everyone, my name is jialiang ma, and today I would like to present about the topic is optimal choice of covid 19 vaccine in u.s.

And this is the topic. First, let us discuss about the scope and purpose!

The scope and purpose of this presentation is to: 1.

Also, i will focus on each available vaccine in states, based on their difference and overall factors.

Data is from … Mass, CDC and so on.

There are the available types of vaccines in U.S. currently. Some people many judge the vaccine by only evaluating the efficacy. But we will have a fully introduction later.

For the comprehensive assumption, the constraints and limitations would be…. potent

After setting these constraints, the model will work accurate.

We can see in this figure that Massachusetts is about 50% and 55% for the vaccination, and for the next data, we can see the average of vaccine has around 3.7 million doses per day, to make sure the model can work under this condition.

And for the solution, I chose weighted average model because it can deal with multiple uncertainty and turn un-quantified data into a specific metrics. For the purpose in this case, parameters would be focus on efficacy, side effects and other casual effects.

I weighted each type of vaccine as follows: based on current data, we can conclude and give each alternative criterion.

For testing the upper bound. First I changed …. Second I changed…

conclude that the positive effect has high correlation with the results. For other two parameters, the correlation are lower.

Based on SA, I revise the model in efficacy, side effects and other casual effects. The optimal solution still be Moderna. 1. 3.