Risk Assessment in Health Systems for COVID-19

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Abstract

The health systems are one of the systems affected by the Covid 19 pandemic. Lack of equipment, personnel, and facilities are among the issues impacting the epidemic's control and progression. While studies such as vaccination continue, models have been developed to keep up with these developments. Because the SEIR model lacks a vaccine compartment, the more advanced SEIRV model with a vaccination compartment was used in this study. After a comparison of the various article contents, the necessary outputs of the Turkey data were recorded over the data of other countries on the GitHub platform, and the study proceeded. By comparing data from different nations with the modeling, various outcomes were found.

Keywords
COVID-19, SEIR, SEIRV, vaccination, pandemic