

Review of: "Qualitative Analysis of a Time-Delay Transmission Model for COVID-19 Based on Susceptible Populations With Basic Medical History"

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Potential competing interests: No potential competing interests to declare.

Comments to the authors

Qualitative Analysis of a Time-Delay Transmission Model for COVID-19 Based on Susceptible Populations With Basic Medical History

The authors have considered a time-delay COVID-19 model of susceptible people with basic medical history. Authors not only investigate the existence, stability of equilibrium point, they present numerical simulations to validate the results. The obtained results are interesting. However, there are some doubts need to be addressed.

1. I'd like the authors may further discuss the implications/contributions of their model for health planning, and also the limitation of their approach. what actions took to overcome these limitations, and what future studies could be developed.
 2. The text has much room for improvement. I recommend that the manuscript would be reviewed by a professional editing service or a native English speaker.
 3. If possible, a flow diagram describing the control/prevention process and its main features would be nice.
 4. Numerical simulation section should be improved. Describe each figure in result section. Also mention the data source of the parameters to draw the figure. I strongly recommend to improve the conclusion section.
 5. Modified the introduction by incorporating some recent references related to COVID-19 model etc. The following citation may be helpful:
 - DOI:10.5890/JAND.2022.06.012
 - DOI: 10.47852/bonviewJCCE2202236
 - DOI:10.5890/JAND.2023.03.001
1. Author mention that the values of the parameter are hypothetical, then mention the data source of the value of the parameters. Units/dimensions of the parameters are also missing in this manuscript.