

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.

If the following questions are answered, the article is suitable for publishing.

- 1. In the Introduction, one paragraph should be provided explaining why people who have underlying diseases have different susceptibility (as considered in the model) and some important work on that line. It will aid in comprehending the model's significance.
- 2. The introduction includes works that take into account delay, particularly incubation delay. It is unclear how they obtain significant results after analysing their model with delays. If the authors describe some of the findings of the existing works, the statement "in order to be more in line with the actual situation" will be justified.

The author can possibly justify the line in another way.

- 3. It is interesting to note that the basic reproduction number is not monotone with respect to d and theta. Please explain the expression more.
- 4. The "ylabel" in Figures 2 and 3 must be looked into.
- 5. Figure 2 shows that "I(t)-> 0", but the pandemic spreads in this scenario.

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