

# 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.

## Major Comment

1. My overall concern with the manuscript is the construction of the model equations. The transmission dynamics between Exposure and Infected compartment is not realistic. Is the model displayed the Incubation period? Transmission dynamics of the model must be included.
2. In Equation (3), the author excluded E. But exposure is a disease compartment and has a significant impact on disease dynamics.
3. Numerical simulation of the model is so poor. The article must be enriched with result of basic reproduction number, sensitivity analysis using the partial rank correlation coefficients, impact of the parameters of the model compartments, etc... Finally, compare with real data. I thank, COVID-19 data are available.