

# 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.

1. Abstract Line 4: There are two equilibrium points not one.
2. Page 1, Line 5: Separate "death[1-2]" as "death [1-2]".
3. Page 1, 3<sup>rd</sup> to the last line: Change "It" in "...transmission phase, It is of ..." to "it".
4. Thorough out the paper writes "et al." in italic.
5. Page 4, Lines 4-5: Refer to stability of the two equilibrium points not one.
6. Page 7, Line 9: Check the font size of "the equation can be deformed into:"
7. Page 8,  $J(E_0)$ :  $S_{10}$  and  $S_{20}$  are not define.
8. Page 9, Proof of Theorem 4: Something is missing between "...the system at" and "is as follows".
9. Page 11, Theorem 5: The equilibrium point " $E_0=(S_{10}, S_{20}, 0)$ " perhaps is " $E_0=(S_{10}, S_{20}, 0)$ ".
10. Page 12, Proof of Theorem 6: "...of system (3) at  $e_0$ ..." is perhaps "...of system (3) at  $\tilde{E}$ ..."