

# Review of: "An Optimal Control for Ebola Virus Disease with a Convex Incidence Rate: Imputing from the Outbreak in Uganda"

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Potential competing interests: No potential competing interests to declare.

1. The work proposed in the paper is well presented and theoretically sound.
2. Authors are advised to carefully look into the manuscript for grammatical, typos and punctuations.
3. "Chronology of previous EVD outbreaks include 18 countries since the first outbreak with the 2021 (Guinea and DRC) ongoing, over 8 and 7 outbreaks in DRC and Uganda respectively of Zaire and Sudan ebolavirus species" needs to be rewritten as it is not understandable.
4. "By 18th November 2022, 114 cases EBV has reportedly been" needs to be replaced by "By 18th November 2022, 114 cases EBV has been reported." Likewise there are many sentences that need to be rewritten so that readers find it comfortable to understand the flow of the paper.
5. "Section 4, gives the modification of S-E-I-R-T-D model into an optimal control system, a qualitative analysis and numerical experiments are carried out." needs to be rewritten.
6. Definition of Q has a typo.
7. Authors have to use total population either as Q or as N. Eq. 2.3 has N whereas previously authors have used Q. Again in Section 3 'N' has been used.
8. For theoretical improvement authors are suggested to include the following mentioned references in the manuscript : <https://doi.org/10.1063/5.0028905>, <https://doi.org/10.3390/fractalfract6020092>, <https://doi.org/10.1063/5.0130403>
9. Considering the present size of figures, in each strategy authors may place both the figures horizontally.