

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

Rachana Pathak¹

¹ University of Lucknow

Potential competing interests: No potential competing interests to declare.

I have gone several times through this manuscript and found it is very interesting and easy to read. In this manuscript, author has proposed and analysed mathematical model with a convex incidence rate for an optimal control model of Ebola Virus Disease. Three control measures: tracing of contacts, lock-down and treatment have been considered. A qualitative analysis and numerical experiments are performed on the model. From analysis, they found that the most expensive strategy involved imposing lock-down and curfew together with contact tracing of the infected while the cheapest alternative was lock-down and curfew together with treatment of the infected.

Overall, this manuscript is sound in mathematical and biological point of view, but prior to publication the authors should remove a few minor issues.

1. The English should be checked and the sentence structure should be simplified, avoiding repetitions whenever possible to make your article be more fluent and logical.
2. Rewrite the manuscript in justified format. Mathematical equations have not been written in proper format.
3. "Organization of the manuscript" is not to be needed write in separate section.
4. References are not well written. Use proper format for references.
5. In the Discussion and Conclusion, Author has given description of figures, it must be written in Numerical section and it would be better to write the obtained important results as bullet points in conclusion section.