

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

Abdulfatai Momoh Atte

Potential competing interests: No potential competing interests to declare.

**Reviewer Report** In the study, an optimal control for Ebola Virus disease with a convex incidence rate imputing from the outbreak in Uganda which was carried out. A mathematical model with a convex incidence rate for an optimal control model of Ebola virus disease was formulated and analyzed. Also three controls which are: contact tracing, lock-down and treatment was consider. A qualitative analysis and nu numerical simulation are performed on the model and the findings reveals that the most expensive strategies involved imposing lock-down and contact tracing of the infected while the cheapest alternative was lock-down and treatment of the infected. **Major Corrections** The researcher did a good work on the research idea optimal control for Ebola Virus disease with a convex incidence rate imputing from the outbreak in Uganda. But for a good and commendable research I strongly advised that the researcher should try to establish uniqueness in his work by considering more controls or unique controls that so many researchers might not have considered. Also I think the researcher should look critically at the schematic diagram basically the death compartment to be a bit realistic. More also a qualitative analysis should be carried out in the work most importantly sensitive analysis as such result will give a good understanding of the research outcome. This I feel will strengthen the research work further. **Minor Correction**-Typographical errors should be check on the body of the work.-2.0 should be the model description-They should be model description to enable good understanding.- Need to be consistent with referencing style- Try and follow the Journal format of writing Conclusion. The paper should be accepted with major corrections