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

Siyu Liu

Potential competing interests: No potential competing interests to declare.

In this paper, they formulated and analyzed a deterministic nonlinear model for transmission dynamics of Ebola virus disease, which incorporates a convex incidence term in the force of infection to account for a possible double exposure to infection by the susceptible population. They use the next generation matrix approach and estimate the basic reproduction number for the 2022 Ebola outbreak in Uganda. They found 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 through numerical simulations. It is an interesting insight. But some formula is ultra-wide, such as page6 and page 11. I think it will be better if the author be careful of the beauty of the formula.