

# Review of: "A Mathematical Characterisation of COVID-19 in Mauritius"

Makoto Niwa<sup>1</sup>

<sup>1</sup> Ritsumeikan University

**Potential competing interests:** No potential competing interests to declare.

This manuscript reports good modeling using the clean data of Mauritius which is an island country.

My understanding is that in this manuscript the logistic model is used rather as the simplest model to explain real data. This approach is reasonable as analysis using simplest model often provides good insight. In this meaning discussion with  $R_0$  (relate to mechanistic model such as susceptible-infected-recovered (SIR)) may not be important in this manuscript.

As herd immunity was not established in 1st or 2nd wave of COVID-19, especially in Mauritius, recovered population is not important in retrospective analysis. Thus, the use of logistic model (rather than SIR model that can explain recovered population) can be regarded as a strength of this research.

Potentially explaining relationship to classic theory (i.e. logistic model to population growth theory) may add value to the manuscript. Again, putting emphasis on logistic model (focus on "infected" only rather discussing relationship with SIR model) is advantageous.