

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

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

Authors have worked on Covid-19 in Mauritius. The title and abstract shows that, they are giving a mathematical characterisation of covid-19. The questions for the manuscripts are:

1. The work is just on analysis not any technical aspects authors used. WHO already provided the study on the basis of no of infected cases vs. non-infected. What authors did new?
2. Fatality and mortality rate comparison discussed by authors in abstract what what ratio they achieved in their work not clear.
3. In introduction "In Mauritius, the first COVID-19 wave started with three cases of COVID-19 detected on the 18th March 2020.....The virus was still poorly understood at that stage, the first worldwide case being officially registered by the Chinese authorities on the 31st December 2019" a single paragraph statement consisting two different facts and authors gave one reference i.e., [1]. Both the statements are same or different in terms of facts?
4. Reference 2 and 3 are also not justifiable, like in reference [2] authors talked about "The reason why we chose the S-shaped growth curves is because they are known to be suitable fits to numerous naturally and man-made processes" and in Reference [3], "Three parameters define the S-curves and these parameters are determined for a few countries during the first wave using data from" but they used a word "Ministry of health" is not cited although any governing body or statistics must have citation.
5. After reference [3], authors stated "The final value and the slope of the curve are then used to compare the progression of the virus in Section 3." are they introducing their work or work done by others.
6. The overall manuscript is not well presented.