

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

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

In this paper, the author tries to explain the daily incidence of COVID-19 using S curve. S curve for the first wave and second wave of COVID-19 infections, is fitted separately. The author has also estimated the reproduction number for Mauritius, using mean and variance values of Germany. Mean and variance values used in the calculation of the reproduction number, is based on time taken by an individual to infect another person with COVID-19. Case fatality rate and crude mortality rate is also calculated.

Certain sections of this paper have to be rewritten. The conclusion section of this paper should include a paragraph on the significance and novelty of this paper. The contribution of this paper in the existing body of knowledge related to COVID-19, should be highlighted. How does Mauritius fare in comparison to other countries? This should be explained with reference to S-curve, Reproduction Number, Case Fatality Rate and Crude Mortality Rate. These terminologies appear in a disintegrated manner in this paper. The overall picture shown by these measures should be explained in a simple manner.

Material and Method section should also be included. Material Section should give details of the data used in this paper. Method section should explain the mathematical formulation of S curve, the parameters related to the ceiling and growth should be explained in detail.