

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

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Potential competing interests: No potential competing interests to declare.

The reproduction number R_0 is an important number to estimate in such study. Here equation (4) is proposed to estimate R_0 . This formulae comes from reference (9). When reading this reference it is seen that this formulae is not straightforward: it is simply an assumption with no proof. In ref (9) the probability density function of the generation interval G (where generation interval is defined as the time needed for an infected person to infect another person) is assumed to be a Gamma distribution and in such case one obtains equation (4). However there is no special reason that the G random value belongs to a Gamma distribution. This must be stated in the present paper and carefully explained. Together with the logistic growth expressions, which are only assumptions, this provides another assumption. All these ad-hoc hypotheses provided strong limitations to the scope of the present work.