

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

Alessandro Selvitella¹

1 Purdue University Fort Wayne

Potential competing interests: No potential competing interests to declare.

Thanks for the opportunity to review the paper "A Mathematical Characterisation of COVID-19 in Mauritius" by Sayed Z Sayed-Hassen submitted to Qeios.

The paper studies the dynamics of COVID-19 in Mauritius by means of mathematical methods. Considerations about the basic reproduction number and the immunity threshold have been made. Comparisons with the evolution of the coronavirus in European countries have been made too.

The paper concentrates on the initial growth rate of COVID-19 waves and therefore can benefit from classical tools to understand epidemiological parameters of interest, such as the initial spreading rate and the mortality rate. The analysis was connected to the management of government authorities dealing with the difficulty of the pandemic, especially in its early stages.

The research community has mobilized to contrast the diffusion of the COVID-19 pandemic, but a rather small percentage of the studies have been dedicated to the understanding of its dynamics in data-disadvantaged populations, namely those populations for which less data is available. Studies addressing such problems are very welcome and fundamental to better understand infectious diseases in general and prevent their diffusion among populations with less resources available to contrast them.

Qeios ID: 3ZI3JA · https://doi.org/10.32388/3ZI3JA