

Review of: "The Spherical Horse and COVID-19"

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Potential competing interests: No potential competing interests to declare.

The motivation of this analysis is excellent because helping others by doing math is how we can help others. Improving the classical model, SIRD always helps to understand the spread of the virus and to prevent future situations using catastrophic situations in our past.

The hypothesis of this document described in paragraph number 6 about "the probability of an individual compartment is independent of its history, that is, of the time it has spent in it" like a FIFO behavior could be completed with a definition of the scenarios [1] interacting between them immersing the Figure 2.

For example, in the economic level situation [2-3], when the virus arrives in the patient's homes, many countries still don't have access to water in their homes (to wash their hands many times during the day), access to the information [4], and also, they didn't have money to pay mask for avoid the virus, they must leave their homes to work because it's the only way to pay the bills, even with spreading the virus.

Depending on how the curves of the SIRD change the behavior, you can increase the scenarios like the vaccination (previous and after), the type of blood (A is the most attractive to the virus), comorbidities [5-6], etc.

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[5] Nolasco-Jáuregui, O., Quezada-Téllez, L. A., Salazar-Flores, Y., & Díaz-Hernández, A. (2022). Maximum Local Overlapping Semicircles for Comorbidity Analysis. *Novel Research Aspects in Mathematical and Computer Science Vol.*

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