Review of: "A Multi-factor Model of COVID-19 Epidemic in California"

OPhir Nave[1]

1 Jerusalem College of Technology

Potential competing interests: No potential competing interests to declare.

The paper is very interesting from a practical point of view. It can be forward to the next step after the authors will revise the paper base on the comments below.

- The abstract writes very informative. The authors describe the questions of the research, the results but not the methods how to achieve these results.
- The authors should explain in detail how the theoretical parts relate to the graphs presented in the paper. For now, it is not absolutely clear.
- The following papers can be added to the current research:

1: Nave, Op., Shemesh, U., & HarTuv, I. (2021). Applying Laplace Adomian decomposition method (LADM) for solving a model of Covid-19. In Computer Methods in Biomechanics and Biomedical Engineering (Vol. 24, Issue 14, pp. 1618–1628). Informa UK Limited. https://doi.org/10.1080/10255842.2021.1904399

2: Harris, J. E. (2021). Los Angeles County SARS-CoV-2 Epidemic: Critical Role of Multi-generational Intra-household Transmission. In Journal of Bioeconomics (Vol. 23, Issue 1, pp. 55–83). Springer Science and Business Media LLC. https://doi.org/10.1007/s10818-021-09310-2

- I am not sure that I understand clear how the income affects the virus.
- Please add a nomenclature to the paper. It is very hard to follow the mathematical formulations.
- The expression of P(x) includes a sum. Please be correct and write the index of the summation. Also, the summation can't be on x without index.
- Please add a new section with discussion.