Review of: "The Changing Trajectory of Covid-19 and How Immunity is Evolving with It"

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Potential competing interests: No potential competing interests to declare.

The paper is concerned with the review of how the pandemic shifts to endemic as in the case of SARS-CoV-2 pandemic. It is speculated that better second-generation vaccines and effective treatments should be developed to tackle current and future variants not to abet the process of reaching endemicity.

The work is recommendable for publication in the **Qeios,** since the work falls within the scope of the journal. However, the following concerns must be clarified beforehand;

A) – Language is fluent and fine overall, with some random typos.

B) – It is not clear which epidemic model and variations under vaccination is discussed.Provide the model.

C) – Not only vaccination, but also other measures can also lead to endemicity.

D) – Development of “herd immunity” in enough people in a population who become immune to the virus could be helpful in the transition to endemicity. What is the critical level?

E) – Some relevant/recent epidemic peak time results have been missed, which would attract the interest of the researchers in the field “An extended epidemic model with vaccination: Weak-immune SIRVI (DOI: 10.1016/j.physa.2022.127429)”, “Explicit formulae for the peak time of an epidemic from the SIR model (DOI: 10.1016/J.PHYSD.2021.132902)” and “A highly accurate peak time formula of epidemic outbreak from the SIR model (https://doi.org/10.1016/j.cjph.2023.05.009)”.

F) – Deterministics versus stochastics models. Which are more inclined to provide better information on the topic?

G) – Provide some tables/figures during the discussion.