

# 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 Changing Trajectory of Covid-19 and How Immunity is Evolving with It

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In this research paper the authors presented when the current Covid-19 pandemic will shift to endemic. They observed that the dynamic of the virus-host interaction is subject to constant evolution which makes it difficult to predict when the SARS-CoV-2 pandemic will become endemic. They also observed that Vaccines in conjunction with efforts around masking and social distancing have reduced SARS-CoV-2 infection rates; however, there are still significant challenges to contend with before the pandemic shifts to endemic, such as the coronavirus acquiring mutations that allow the virus to dodge the immunity acquired by hosts.

The authors are properly described the current scenario of covid -19 pandemic throughout the manuscript. They presented the different variants of SARS-CoV-2 due to mutation process.

They emphasised and concluded that a second generation vaccination process with other preventive measures may reduce the transmission rates and current Covid-19 pandemic will shift to endemic. In my opinion, the manuscript can be accepted for publication with some minor corrections and suggested modifications given below:

1. Language of the manuscript should be improved for better readability.
2. Clearly mentioned the motivation of the study clearly after the introduction section by making a section named "Motivation of the study".
3. While reading the manuscript I observe that the authors described the covid-19 situation of some specified countries such as United States, India, etc. with some references. Since the Covid-19 is world wise pandemic so, the authors should describe the situation of other deeply affected countries with proper reverences.
4. Authors suggest that second generation vaccination process may control muted variants of SARS-CoV-2. Does the vaccination process is always safe to the human body? This comment should be discussed with proper references.
5. Changing of SARS-CoV-2 into new variants due to mutation is presented in Figure 1A. Can you represent it mathematically how the mutation is occurred? That will be the better representation and helpful to the researchers and readers of the Journal. This also increases the weightage of the manuscript.

6. Conclusion part should be improved. Basic finding of the research work throughout the manuscript should be discussed clearly.
7. Future research direction should be included in the conclusion part.
8. Check carefully, the grammatical mistakes during revision.