

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.

This article provides a comprehensive overview of the changing trajectory of Covid-19 and how host immunity is evolving with the virus. The authors discuss important aspects such as the emergence of SARS-CoV-2 variants, the evolving host immunity, the role of host genetics, and the implications for vaccination strategies. Overall, the article is well-researched and provides valuable insights into the ongoing pandemic. However, there are a few areas that need to be addressed before publication.

1. The article lacks a clear structure and organization. The information is presented in a somewhat disjointed manner, making it difficult for readers to follow the flow of the argument. I recommend reorganizing the content and introducing clear subsections to enhance readability.
2. The article would benefit from a more concise and focused introduction. While the authors provide relevant background information, it feels overly detailed and could be streamlined to provide a clearer context for the research question.
3. The section on the emergence of SARS-CoV-2 variants is informative, but it would be helpful to provide more specific references and citations to support the claims made. Additionally, the article would benefit from discussing the implications of these variants on the trajectory of the pandemic and the potential challenges they pose for achieving endemicity.
4. The discussion on host immunity is comprehensive, but it would be beneficial to include more recent research findings and studies to support the arguments presented. Additionally, the authors could discuss the implications of waning immunity and the need for booster shots in light of the evolving variants.
5. The section on host genetics and susceptibility to SARS-CoV-2 is intriguing, but it lacks specific examples and data to support the claims made. I recommend incorporating more references and studies that demonstrate the link between genetic factors and Covid-19 susceptibility or severity.
6. The discussion on vaccines and the role of boosters is relevant, but it would be helpful to include more up-to-date information and data on the effectiveness of boosters in mitigating the impact of variants. Additionally, discussing the challenges and ethical considerations of vaccine distribution and accessibility could enhance the article's relevance.
7. Overall, this article provides valuable insights into the changing trajectory of Covid-19 and the evolving host immunity. However, it requires significant revisions to improve the structure, organization, and inclusion of specific references and data to support the arguments presented. With these revisions, the article has the potential to make a significant contribution to the understanding of Covid-19 dynamics. Therefore, I recommend a major revision before considering it for publication.

