

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 manuscript by Haque et al discusses the progression and shifting trajectories of SARS-CoV-2 infection-induced immunity. Despite the authors' considerable efforts in compiling data from previously published studies, the presented information is of trivial relevance. Some of the information provided by the authors lacks citations, and certain statements need to be reconsidered. Considering the authors' efforts, I would approve the manuscript for publication only after a few minor revisions.

1. Page No. 2, the statement "It must be emphasized that the more widespread the transmission is, the more likely this RNA virus will mutate" needs accurate citations.
2. Page No. 3, last paragraph "The BQ.1.1 variant, which has three spike mutations (N460K, K444T, and R346T), make BQ.1.1 more contagious than its closely related variants" lacks citation as well.
3. Page No. 4 Second last paragraph, "XBB.1.6 (also known as Arcturus). Kindly recheck the strain name, is it XBB.1.6 or XBB.1.16?"
4. Page No. 5, "camouflaging its viral mRNA to mimic the host's mRNA to avoid immune detection" needs proper citations.
5. Page No. 7, second last paragraph "avaccine", Kindly recheck the spelling and provide proper spacing.
6. Page No. 8, "In most infectious diseases, with a few exceptions, the human immune system needs repeated exposure to natural infections to develop immunity, even in the case where the infectious agent does not mutate significantly". This statement sounds like a hypothesis. Kindly redraft it or present it with proper citation.