

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.

Very interesting discussion. However, I think that it is missing two very important references and thus misrepresents the discussion.

Please correct that first. There are several other considerations that lack evidence. Please reinforce or remove them.

1. please cite these two reports first and then discuss them. This is the most important issue. If you deny these, please provide evidence. Perhaps the content of Vaccines and the Role of Boosters needs to be changed considerably. And you should point out that mRNA vaccines potentially cause accidents at higher frequency. The safety of this has not been proven.

Class switch toward noninflammatory, spike-specific IgG4 antibodies after repeated SARS-CoV-2 mRNA vaccination
<https://www.science.org/doi/10.1126/sciimmunol.ade2798>

Effectiveness of the Coronavirus Disease 2019 Bivalent Vaccine
<https://doi.org/10.1093/ofid/ofad209>

2. request some evidence.

a. It seems that Covid-19 has become a more manageable disease and it is inferred that it is due to immunization and vaccines.

Actually the Omicron variant is less lethal than the Delta variant, but I attribute that to chance. As far as I know, there should be no evidence to show positively that it is due to immunization or vaccines.

b. Interestingly, recent data showed the presence of non-spike cross-reactive memory T cells
I agree with this. This fact makes a more polyclonal vaccine desirable.

Some ORFs are more conservative than spikes.

<https://doi.org/10.1273/cbij.22.1>

Why do you not recommend polyclonal vaccines as the next generation?

c. The average case is getting much milder over time

but there are two aspects to this. One is that the medical community has become accustomed to it. The other is due to the nature of the omicron variant.

Unfortunately, the new variant seems to be more lethal than the original Omicron variant, and in some countries, such as the United Kingdom and the United States, as well as in Sweden, the lethality rate has increased. The WHO data should provide easy confirmation.

d. Recent reports from the CDC show fewer than 500 deaths per week compared to more than 4,000 deaths per day from Covid-19 in 2021 [16].

This leads to misdirection. This is due, for one thing, to the fact that Omicron happens to be attenuated, and also because there are fewer people infected.

e. However, achieving herd immunity to the Covid-19 virus seems to be elusive.

However, the worldwide epidemic has been on the wane. How do you explain this? I believe it is due to herd immunity, although imperfect. In India, for example, once it was almost completely contained. But then, as you know, a variant arose that was able to break through this.

Now, of course, there is no evidence to support the idea that my Omicron variant just happened to have less lethal properties. But this can be explained with fewer assumptions. It is a principle of science to think simpler when you don't know. And for the review, we should avoid uncertain information. Try to sort and prune the information.