

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

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This is a narrative review on the changing trajectory of COVID-19. It provides an overview on epidemiological and immunological data regarding SARS-CoV-2. The authors acknowledge that the severity of COVID-19 has declined over time but they also emphasize the importance of vaccination and point to several knowledge gaps regarding future vaccine policy with reference to COVID-19.

This article is interesting and informative but the authors should pay more attention to data on natural immunity (see e.g. *Eur J Clin Invest.* Nov 11 2022:e13906. doi:10.1111/eci.13906; *Environ Res.* 2022 Jun;209:112911. doi: 10.1016/j.envres.2022.112911.) as immunity induced by previous SARS-CoV-2 infections may induce a very long lasting (probably lasting for many years; see e.g. *J Travel Med.* Sep 30 2022;doi:10.1093/jtm/taac109) immunity against severe disease.

The emphasis for future policy regarding COVID-19 should be based on considerations regarding the risk to benefit ratio of interventions such as vaccinations because the NNTs increase as a consequence of declining infection fatality rates.

I also recommend to discuss the following article by John Ionnidis on the end of this pandemic: *Eur J Clin Invest.* 2022 Jun;52(6):e13782. doi: 10.1111/eci.13782.

As I just recognized that this article has already been reviewed by 11 reviewers I do not go into further details but congratulate the authors for their work.