

# Review of: "Side effects of COVID-19 vaccination in Pakistani population: A cross sectional study"

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**Potential competing interests:** No potential competing interests to declare.

the paper entitled: "Side effects of COVID-19 vaccination in Pakistani population: A cross sectional study", with a primary objective of this study was to evaluate the adverse responses and the effects of multiple variables within a relatively large group.

Just few points to be addressed to make the manuscript more proper:

The manuscript adheres to The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) guidelines for reporting observational studies.

Overall, it is an interesting work, and the paper is well-written and presented.

The introduction was brief and relevant to the work.

The sampling method has accurately recruited intended groups.

Statistical methods followed have made the analysis more accurate.

The presentation of the results is also good, with tables at appropriate places.

Discussion compared the results with available reports made closer to research data with the level of significance.

The author ended the introduction part by the following sentence: "but also to compare the side effects and severity of COVID-19 before and after vaccination" although this may not be clear enough to the reader, the result presented in this version alongside the tables and figures included in the supplementary file does not explain or include any information about these findings which supposed to evaluate the severity of COVID-19 symptoms before the implementation of vaccination program.

The main weakness of this manuscript is the absence of specified inclusion and exclusion criteria.

Does the inclusion criteria impose a time limit on the duration after vaccination?

Describe any efforts to address potential sources of bias

Describe the method of participant recruitment.

The presentation of Figure 1 appears to be of average quality, and since it represents the most significant outcome of this study, I suggest that the dimension be expanded.