

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.

This manuscript described a clinical observation of the side reaction of population immunized by different COVID-19 vaccines including inactivated vaccine, mRNA vaccine and viral-vector vaccine in Pakistan, and, provided useful data for evaluation of these vaccines in their application in population. However, there could be several points needed being addressed before receiving it for publication.

1: Adverse reaction of the individuals immunized by different vaccines usually showed different characterized clinical manifestations. In this manuscript, the detail and clarified analysis should be performed and provided for the understanding of reader about the side effect presented in population received different vaccines. Because the mechanism and immune efficacy elicited by different vaccine were identified being different in present data.

2: As we know, the incidence rates of adverse reaction induced by vaccines in different age-population were different, in this manuscript, no detail clarification of side effect in different age population was introduced, which should be discussed for complete understanding about these side effect, especially they were from different vaccine's immunization.