Review of: "Medical students' disease status of COVID-19: A multicenter study"

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Potential competing interests: No potential competing interests to declare.

It gives me great pleasure to review the article titled "Medical students' disease status of COVID-19: A multicenter study".

I would recommend revisions as followed:

Abstract:

1. The method of proforma dissemination should be briefly stated in the "Methods".
2. The method of confirming COVID-19 should be clearly specified in the "results" right after the frequency of 31.4%
3. The abbreviation of KPK should be stated following "Khyber Pakhtunkhwa" earlier in the abstract.
4. The effectiveness of safety measures in a nation-wide level cannot be simply judged based on the infection rate among medical students, which only contributes to a small population and narrow age range.

Introduction:

1. Human-to-human transmission of COVID-19 is through… Consider adding "mainly" before through, as other modes of transmission have been described
2. The second paragraph may be removed, as this does not add much value to the manuscript
3. Line 1, 6th paragraph: Use COVID-19 symptom, instead of Covid symptom
4. The full name of Khyber Pakhtunkhwa and its abbreviation "KP" should be removed to their earliest appearance in the manuscript

Material & Methods:

1. Any measure to minimize the rate of duplicated entries by respondents?

Results:

1. The sum of % of several parameters in Table 1 does not equal 100%. Need to verify
2. Were those respondents who replied "No response" in question 4 of table 1 counted in subsequent analysis? This may introduce bias in subsequent analysis
3. Were there any analyses correlate the history of prior vaccination and symptomatology? This may provide interesting findings if the symptomatology differ between vaccinated and unvaccinated COVID-19 students

Discussion:

1. Limitation as a separate paragraph, and may consider adding more relevant points related to this questionnaire study, e.g. lack of accurate information, lack of information about exposure to COVID-19 patients that can be family members, friends