

Peer Review File

Article information: <https://dx.doi.org/10.21037/tp-23-120>

Review Comments

The paper titled “Analysis of mental health status before and after psychological intervention in response to public health emergencies by medical students: a prospective single-arm clinical trial” is interesting. The results showed that Varying degrees of anxiety, depression, and somatization symptoms can occur in medical students during the regular response to COVID-19 pandemic, highlighting the impact of public health emergencies on college students. Interest group-based psychological intervention, along with individual mental health counseling, can positively promote the mental health of college students and effectively improve their anxiety. However, there are several minor issues that if addressed would significantly improve the manuscript.

In the introduction of the manuscript, the author needs to introduce the changes of the general environment during COVID-19 and the psychological changes of various groups of people under the background of COVID-19. Further introduce the main types and possible causes of medical students' psychological problems.

Reply 1): Modified

Changes in the text: see page 3, line 55-57.

Why did the author choose the research time of 1 year in the method. Is the time too short? COVID-19 has a total of 3 years. Can the results of this study for only 1 year be representative? It is suggested to add relevant contents.

Reply 2): Modified

Changes in the text: see page 3, line 65-67

There have been many studies on COVID-19. What is the difference between this study and previous studies? What is the innovation? These need to be described in the introduction.

Reply 3): Modified

Changes in the text: see page 3, line 71-74

The main methods of this study are scale evaluation and questionnaire. Are these methods authoritative? Is there any more accurate method for evaluation? It is suggested to increase the discussion of other methods.

Reply 4): Modified

Changes in the text: see page 4, line 101-103

This study lacks the biggest characteristics and significance before and after

psychological intervention.

Reply 5): Modified

Changes in the text: see page 9-10, line262-292

The introduction part of this paper is not comprehensive enough, and the similar papers have not been cited, such as “Sigh syndrome during the COVID-19 pandemic: Is it a signal of the mental health status of Chinese children and adolescents? *Transl Pediatr.* 2021 Feb;10(2):415-422. doi: 10.21037/tp-21-19”. It is recommended to quote the article.

Reply 6): Modified

Changes in the text: see page 3, line56-57

Progress in the prevention and effective management of COVID-19 and public health interventions should be included in the discussion.

Reply 7): Modified

Changes in the text: see page 9-10, line262-292

Are there identical or similar reports abroad? What are the differences and connections? It is suggested to add relevant comparative analysis.

Reply 8): Modified

Changes in the text: see page 8-10, line211-292