

Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors:

1. A question to the authors relevant to multiple sections: “Is oxygenation in each mechanism directly enhancing immune function or instead increasing respiratory reserve?”

Answer: Thank you for this valuable comment. Oxygenation directly enhances both immune and respiratory functions including the respiratory reserve.

2. Regarding immune markers, only animal evidence is cited for direct immune response changes following exercise. Exercise stimulates a general pro-inflammatory response, which could account for the immune marker increases. This potential conflating factor bears mention.

Answer: We added a limitation section indicating that most of the referenced studies were animal studies due to the lack of human studies.

3. With regard to the section on oxytocin, evidence for a causal sequential relationship between aerobic exercise effects on oxytocin, and oxytocin’s associations with immunity is not clearly available. Furthermore the section relies heavily on animal studies. This is not to say the relationship does not exist, but only to advise mention of the limitations of the evidence cited therein.

Answer: Thank you for this valuable comment. We added sentence indicating that most of the referenced studies were animal studies due to the lack of human studies

4. Failure of respiratory reserve generally precipitates severe disease, and this reserve is reduced in risk factor groups. Exercise in general has a positive effect on many of these risk factors, and this section of the review is most informative. However, as a supporter of anaerobic resistance training; not to the exclusion of but in parallel with aerobic exercise, I

would add that it offers many supplementary beneficial effects to the aforementioned risk factors. Overall a useful overview of an area with immense potential.

Answer: Thank you for appreciating our work. We heavily mentioned aerobic exercise because it is the focus of this review.

4 LANGUAGE QUALITY

Please resolve all language issues in the manuscript based on the peer review report. Please be sure to have a native-English speaker edit the manuscript for grammar, sentence structure, word usage, spelling, capitalization, punctuation, format, and general readability, so that the manuscript's language will meet our direct publishing needs.

Answer: Thank you for this valuable comment. The manuscript was carefully revised for any grammar mistakes.

5 EDITORIAL OFFICE'S COMMENTS

Authors must revise the manuscript according to the Editorial Office's comments and suggestions, which are listed below:

(1) *Science editor:*

1. 1 Scientific quality: The manuscript describes a review of the enhancing oxygenation of patients with COVID-19.
2. The topic is NOT within the scope of the WJG.
3. Classification: Grade C;
4. Summary of the Peer-Review Report: Overall a useful overview of an area with immense potential. The questions raised by the reviewers should be answered;
5. Format: There is 1 table and 4 figures;
6. References: A total of 140 references are cited, including 40 references published in the last 3 years; Self-cited references: There are 2 self-cited references. The self-referencing rates should be less than 10%. Please keep the reasonable self-citations (i.e. those that are most closely related to the topic of the manuscript) and remove all other improper self-

citations. If the authors fail to address the critical issue of self-citation, the editing process of this manuscript will be terminated.

Answer: Thank you for this valuable comment. The self-citations are only 2 out of 140 references, thus they are less than 10%. Additionally, they are important.

7. References recommendations: The authors have the right to refuse to cite improper references recommended by the peer reviewer(s), especially references published by the peer reviewer(s) him/herself (themselves). If the authors find the peer reviewer(s) request for the authors to cite improper references published by him/herself (themselves), please send the peer reviewer's ID number to editorialoffice@wjgnet.com. The Editorial Office will close and remove the peer reviewer from the F6Publishing system immediately.

(2) *Language evaluation:*

1. Classification: Grade B.
2. Academic norms and rules: No academic misconduct was found in the Bing search.
3. Supplementary comments: This is an invited manuscript. No financial support was obtained for the study.
4. Issues raised:
 - a. The "Author Contributions" section is missing. Please provide the author contributions;

Answer: Thank you for this valuable comment. The author contributions sections was added

- b. The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor;

Answer: Thank you for this valuable comment. I attached the PowerPoint files.

- c. PMID and DOI numbers are missing in the reference list. Please provide the PubMed numbers and DOI citation numbers to the reference list and list all authors of the references. Please revise throughout;

Answer: Thank you for this valuable comment. The DOI number was added to references.

- d. If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published; and correctly indicating the reference source and copyrights. For example, “Figure 1 Histopathological examination by hematoxylin-eosin staining (200 ×). A: Control group; B: Model group; C: Pioglitazone hydrochloride group; D: Chinese herbal medicine group. Citation: Yang JM, Sun Y, Wang M, Zhang XL, Zhang SJ, Gao YS, Chen L, Wu MY, Zhou L, Zhou YM, Wang Y, Zheng FJ, Li YH. Regulatory effect of a Chinese herbal medicine formula on non-alcoholic fatty liver disease. World J Gastroenterol 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc[6]”. And please cite the reference source in the references list. If the author fails to properly cite the published or copyrighted picture(s) or table(s) as described above, he/she will be subject to withdrawal of the article from BPG publications and may even be held liable.

Answer: Thank you for this valuable comment. All figures were created by us. I uploaded the PowerPoint file of each figure.