

PEER-REVIEW REPORT

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Title: Enhancing oxygenation of patients with COVID-19: Effects on immunity and other health-related conditions

Reviewer's code: 05848609

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: Turkey

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Reviewer chosen by: AI Technique

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

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