



PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 77072

Title: Anatomophysiological relationships and clinical considerations of tasting and smelling loss in patients with COVID-19

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05426937

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2022-04-13

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-05-22 09:34

Reviewer performed review: 2022-05-30 12:10

Review time: 8 Days and 2 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

No.



PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 77072

Title: Anatomophysiological relationships and clinical considerations of tasting and smelling loss in patients with COVID-19

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05352073

Position: Peer Reviewer

Academic degree: MD

Professional title: Director, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2022-04-13

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-06-01 13:38

Reviewer performed review: 2022-06-12 08:42

Review time: 10 Days and 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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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

To the author This manuscript discussed the anatomical and physiological considerations about two of the symptoms reported by patients: the loss or reduction of smell and taste. As a review, 17 articles were included and analyzed. The review suggests that viral mechanisms of action may be related to lesions both at the local level and at the level of the central nervous system. At present, SARS-CoV-2 is in the state of pandemic, this manuscript has special clinical significance. However, some limitations and shortcomings should be addressed. Firstly, the title of the manuscript is not reasonable enough. In the discussion and conclusion part, apart from the considerations about anatomophysiological relationships, the author also discussed the treatment, prevention, and prognosis of the disease and the two complications with considerable length. In addition, for the article the review included, only a few of them explored the anatomical and physiological relationships. Majority of them merely speculated the possible pathological mechanisms in the discussion part, which was a routine component for a manuscript. Therefore, I recommend to replace the title with “Anatomophysiological relationships and clinical considerations of tasting and smelling loss in patients with COVID-19”. Secondly, for clinical significance, temporary taste and smelling lost is common and insignificant. Only persistent tasting and smelling lost is a severe complication for COVID-19 infection. It was recommended that the prevalence rate and prognosis of persistent tasting and smelling lost was added in the introduction part and discussion part. Furthermore, as the virus has been mutated, the omicron strain is the main virus strain at present. The clinical features and physiological considerations of this strain should be discussed. Thirdly, Minor language polishing is needed. I



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recommend the author to replace long sentences into several short sentences, so as to make sentences more comprehensible. It's better that one sentence contains only one idea. For example: "Regarding preventive measures against COVID-19 and its symptoms, such as loss of smell and taste, the importance of using PPE (personal protective equipment) is found in the literature, as in the study by Kim et al.[34], that limited access to this equipment (mask, lab coat, new gloves and face shield) was significantly associated with a higher risk of developing symptoms of COVID-19, in addition to being associated with more severe disease, with moderate or severe symptoms[34]." This sentence is too length and better to be divided into two sentences. Fourthly, in the method part, the eligible criteria and exclusion criteria should be clearly expressed. Fifthly, in the table of the included articles, the study type was recommended to be listed. Lastly, in the discussion part, the preventive measures were discussed. What is the role of vaccination for the prevention of the disease and the two complications? It would be better to add these contents into the manuscript.