

PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 77316

Title: Effect of age on computed tomography findings: Specificity and sensitivity in coronavirus disease 2019 infection

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05121314

Position: Associate Editor

Academic degree: FEBS, MD, PhD

Professional title: Assistant Professor, Senior Lecturer, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Turkey

Manuscript submission date: 2022-04-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-24 16:38

Reviewer performed review: 2022-04-26 17:18

Review time: 2 Days

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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" 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="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

COVID-19 pandemic represented a major healthcare challenge and the authors of the present manuscript assessed how CT findings related to the age of the affected patients. Overall the study is good, with clear methods and results description, but I would recommend some revisions: 1) there is literature highlighting the importance of patients to undergo chest CT scan for early detection of COVID-19, particularly if asymptomatic. We have known in fact that PCR might not result positive in the early phases of the disease or because of other variants, so it is worth to discuss the following <https://doi.org/10.1155/2022/7768383> 2) could the authors show some images that relate to the different age groups and confirm the findings? 3) were the comorbidities influencing irrespectively of age the outcomes? In other words, did the authors perform a multivariate analysis adjusting for comorbidities?

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Reviewer's code: 05382654

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Chief Physician

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2022-04-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-24 23:21

Reviewer performed review: 2022-04-30 10:50

Review time: 5 Days and 11 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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

This manuscript mainly evaluated the sensitivity and specificity of thoracic CT findings of COVID-19 pneumonia according to age groups, which could be helpful for accurate analysis in the patients with COVID-19 and long-term disease control during the pandemic. However, below revisions are still needed before being published in World Journal of Virology.

1. In the MATERIALS AND METHODS section, subtitle should be added, such as Statistical analysis. Additionally, in the Statistical analysis section, should “A P value of less than 0.05 considered as statistically significant” be added?
2. In the first sentence of results section, “with 6 %of 241 (58.8%) males and 170 (%41.4) %females” should be changed to “with 241 (58.8%) males and 170 (41.4%) females”. In the other sentence of results section, “a positive rate of 77.9 %(41/181)” should be changed to “a positive rate of 77.9 %(141/181)”. Additionally, according to the result of figure 1, the percent of the age group 3 in the figure 2 should be 33.3%, not 33.1%. Please check these results carefully.
3. It is suggested that longitudinal axis and lateral axis in figure 2 and figure 3 should be more obvious. More detailed information in the illustration is also needed.
4. Please refer to recent papers published in World Journal of Virology and correct the format, such as: “Core Tip” and “ARTICLEHIGHLIGHTS” should be added. Other suggestiones have been listed in the uploaded revised version.
5. In references, all journal names should be italic, volume number should be bold, issues should be deleted, PMID number and DOI should be provided. Please check all references including content and format carefully according to the journal’s requirements.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Virology*

Manuscript NO: 77316

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Position: Associate Editor

Academic degree: FEBS, MD, PhD

Professional title: Assistant Professor, Senior Lecturer, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Turkey

Manuscript submission date: 2022-04-24

Reviewer chosen by: Yun-Xiaojuan Wu

Reviewer accepted review: 2022-07-20 09:58

Reviewer performed review: 2022-07-21 10:39

Review time: 1 Day

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Thank you for letting me review the revision. I congratulate the authors on this interesting manuscript and endorse its publication.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript submission date: 2022-04-24

Reviewer chosen by: Yun-Xiaojuan Wu

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Reviewer performed review: 2022-07-27 00:49

Review time: 3 Days and 11 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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
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Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

My previous comments have been reasonably responded. However, below some minor revisions are still required before being published in World Journal of Virology. 1. Please refer to recent papers published in World Journal of Virology and correct the format. In Author contributions section, “KARAVAŞ” should be changed to “Karavaş”. Other places should be modified accordingly. In BACKGROUND section, “COVID-19” should be changed to “Coronavirus disease 2019 (COVID-19)”. In “RESULTS” section, “Real-time reverse transcription polymerase chain reaction (RT-PCR)” should be changed to “RT-PCR” because it’s mentioned for the second time. 2. In page 7, “141/181?” should be changed to “141/181”. 3. In Figure 4, “Figure 4: A 5-year-old female patient undergoes a thoracic CT scan.” should be changed to “Figure 4 A thoracic CT scan in a 5-year-old female patient”. Additionally, “CT” should be provided the full name. Other places should be modified accordingly. 4. In table 2, “Table 2.The diagnostic accuracy of findings across the entire population” should be changed to “Table 2 The diagnostic accuracy of findings across the entire population”, and should be bold. Other places should be modified accordingly. 5. In reference 2, cited date should be provided. Other places should be modified accordingly. Other suggestions have been listed in the uploaded revised version.