Iranian Journal of Radiology
Volume 18 · Issue 2 · e110396

OPEN PEER REVIEW

Evaluation of the Prognostic Value of Chest Computed Tomography Scan in COVID-19 Patients

Behzad Aminzadeh, Parvaneh Layagh, Mahdi Foroughian, Ahmadreza Tavassoli, Maryam Emadzadeh, Ali Teimouri, Mona Maftouh

SUBMITTED	REVISED	ACCEPTED	DOI
18 Oct 2020	9 Jun 2021	12 Jun 2021	10.5812/iranjradiol.110396

About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 27 Oct 2020 – 1 Dec 2020

Referee 1 Reviewer

MINOR REVISION 27 Oct 2020

Hi
Overall, in terms of methodology, it can be said that this study was well designed and well written, but it needs some editing, as noted below:
1. The study design is cross-sectional, and this must be stated in the abstract and the Methods section of the full text.
2. Table titles must be self-explanatory.
3. Table 1:
3.1. The number in each group must be added to the table.
3.2. The Kruskal-Wallis test must be used for score variables.
4. Table 2: The indices or parameters represented by the numbers in parentheses must be specified.
5. Table 5: The SE and sig. columns must be deleted.

Referee 2 Reviewer

MINOR REVISION 4 Nov 2020

This is a well-structured study with a sufficient number of cases and good analysis. It is suitable for publication in IJR after minor revision:
Please put the tables after the references.

Editor-in-Chief

MAJOR REVISION 1 Dec 2020

Dear authors,
Your article needs revision.
Regards

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Editor,

On behalf of all the authors, I am grateful to you and the respected editorial team and reviewers of **Iranian Journal of Radiology** for carefully considering and reviewing our paper and giving us the opportunity to resubmit our revised work to the journal.

The comments helped us in many ways to make our manuscript better. Herein, I have attached the revised manuscript. The point-by-point responses to the comments of the reviewers are included on the following pages.

Yours sincerely
Mona Maftouh, MD

Reviewer 1:
Hi
Overall, in terms of methodology, it can be said that this study was well designed and well written; But it needs some editing, which was mentioned below:

Thanks for your kind words. We appreciate your help in improving our manuscript.

1. The design of study is cross-sectional and so, it must be added in abstract and full-text method.

As you mentioned we added the study design as “cross-sectional” in abstract and method of full text.

2. Title of tables must be self-explanatory.

The tables’ titles are modified to be as self-explanatory as possible.

3. Table 1:
3.1. Number of each group must be added in Table.

Number of each group is added to Table 1.

3.2. For score variables must be used of Kruskal-Wallis test.

We changed the method to Kruskal-Wallis test.

4. Table 2: Must be mentioned numbers in the parenthesis presents what indices or parameter.

Table 2 shows the frequency of lobar involvement in all patients and the numbers in the parenthesis refer to the percentage of patients in each group. Percent signs (%) are added as you mentioned.

The Table's title and caption were edited to make it clearer.

5. *Table 5: The columns of SE and sig. must be deleted.*

The mentioned columns are deleted as you suggested.

Reviewer 2:
This is a well-structured study with sufficient number of cases and good analysis. It is suitable for publication in IJR after minor revision:

Thanks for the kind statement and careful consideration.

Please put tables after references

Tables are inserted after references.

Reviewer 3:
Dear author
Thank you for submitting your work in the Iranian Journal of Radiology.
There are many grammatical errors, and English writing needs polishing.

Thanks for your kind words. We appreciate your help in improving our manuscript.

The article is edited in terms of language formatting as you recommended.

Materials and methods, Study participants section, line 6 this phrase is not clear" patients with other pathologies features than COVID-19 in chest CT scan".

The above sentence is changed as follows:

Patients with pathologic features other than findings related to COVID-19 in chest CT scans (e.g. pattern of lung involvement in tuberculosis, pulmonary fibrosis, etc.) and patients with missing data were excluded from the study.

The name of the institution, hospital, and city should be omitted.

The above details are deleted as you noted.

Materials and methods, Chest CT Evaluation: The CT scan machines and the SPSS software are not appropriately cited; the manufacturer, city, and country of the manufacturer should be mentioned beside the product's name.

The above details are added as you noted.

It seems that authors consider the lingual as a separate lobe while it is a part of LUL; you should mention it in the methods section.

In the method section we stated that “The lingula lobe is considered apart from the LUL” in this study.

Multiplying the score of each lobe by the number of its segment did not provide additional data.

The following sentence was added in the results section to show the data mentioned above:

“Area under the curve (AUC) for TLI compared to modified TLI showed no significant difference in any of the groups in this study”

Also we noticed this point in discussion section.

The result section is not well organized; the significant results, including demographic data, the number of patients in each admission category, the number of deceased patients, and their admission category, among others, should be mentioned in the text, not just in the tables.

The items mentioned by the reviewer were added in the result section.

There is no data about the involvement patterns and details of chest CT scan findings.

Chest CT patterns and their frequencies and details of chest CT scan findings are added in the result section as you mentioned.

2 Revision 1

2 comments · 19 Dec 2020 – 1 Jun 2021

Referee 1 Reviewer

ACCEPT 19 Dec 2020

From a methodological point of view, it can be said that the authors appropriately addressed all comments in the manuscript, and it is now acceptable for publication in the IJR.

Editor-in-Chief

MINOR REVISION 1 Jun 2021

Dear authors,
Your article needs Minor Revision.
Regards

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Revision 2

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Editor,

On behalf of all the authors, I am grateful to you and the respected editorial team and reviewers of **Iranian Journal of Radiology** for carefully considering and reviewing our paper again.

Herein, I have attached the revised manuscript with highlighted parts as you noticed to be edited. The point-by-point responses to the comments of the reviewers are included as follows:

Associate Editor 2:

1-it seems in line 7, "base on" should be "based on" Done.

2-please add objective part to the main body of paper according to journal format. Done.

3-please add numbers to titles and subtitles: 1-Background- 2-Objectives-#-Patients and Methods. 3.1-Study participants, …….. Done.

4- please write the numbers at the beginning of sentences by words not numbers. For example, 201 is two hundred one. Done.

5-please add the unit of mean values for example 54.8±16.9 years. Done.

6-please correct: "68.2% were male and 31.8% were female". Done.

7-it is better to correct: "who were not dead" to "who did not died". Done.

8-please delete "Conclusion" sub-title and begine the corresponding paragraph with "In conclusion". Done.

9-please follow journal format in referencing, for example, the journal names should be abbreviated, add issue number and volume and add paper pages. I changed the reference style to the Vancouer-kowsar-2018 style as mentioned in instructions for authors in: https://sites.kowsarpub.com/iranjradiol/knowledgebase/category/tree.html#references.html

3 Revision 2

1 comment · 12 Jun 2021

Editor-in-Chief

ACCEPT 12 Jun 2021

Dear authors,
Your article is acceptable for publication in IJR.
Regards