

PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 75515

Title: Mortality Rate of COVID-19 infection in ESKD patients on maintenance hemodialysis: Systematic Review with Meta-Analysis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

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: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-02 03:31

Reviewer performed review: 2022-02-06 01:45

Review time: 3 Days and 22 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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This systematic review and meta-analysis concluded that the mortality rate of SARS-CoV-2 infection in end-stage kidney disease (ESKD) patients on maintenance hemodialysis is higher than those of general population, and cardiac disease and peripheral vascular are associated with increased COVID-19 mortality in ESKD patients. Meanwhile, ACE-I/ARBs therapy appears to be safe. These results may be helpful for clinicians in their counseling and management of these patients and public health policy making to fight the pandemic. However, below some revisions are still needed before being published in World Journal of Virology.

1. In title, it is suggested that "Systematic Review with Meta-Analysis" should be changed to "A systematic review and meta-analysis".
2. Please refer to recent papers published in World Journal of Virology and correct the format. In Abstract section, "Introduction:", "Materials and methods:", "Results", "Conclusion", and "Keywords:" should be changed to "BACKGROUND", "METHODS", "RESULTS", "CONCLUSION", and "Key Words:". Additionally, "AIM" section should be added in Abstract. In page 4, "(1)" should be changed to "[1]", and be displayed in superscript. Other citations should be modified accordingly. Meanwhile, Author contributions, Core Tip, ARTICLE HIGHLIGHTS section (including Research background, Research motivation, Research objectives, Research methods, Research results, Research conclusions, and Research perspectives) should be added according to the journal's requirements.
3. In "MATERIALS AND METHODS" section, it is suggested that the keywords "SARS coronavirus-2 (SARS-CoV-2), end-stage kidney disease" must be added to search in the databases.
4. In "RESULTS" section, it is suggested that "Studies included in our meta-analysis"

should be summarized and described briefly, since it has been shown in Table 1. Additionally, the relationship between male gender, cardiac disease, diabetes mellitus, and COVID-19 mortality in ESKD patients could be described as a subheading. 5. In figure legends, all abbreviations should be given in full text according to the journal's requirements. Additionally, in Figure 2, 29 should be changed to 1.29, and in Figure 5, 58 should be changed to 0.58. Meanwhile, 12 figures are too much. It is suggested that some of figures could be combined or put in Supplementary Material, while flow diagram for the selection process of identified articles could be added. 6. In references, all authors, PMID number and DOI should be provided, the first author and volume number should be bold, and journal name should be italic. In reference 8, title and cited date? In reference 34, should "EClinicalMedicine. 2020; 29: 100630. PubMed Abstract | Publisher Full Text | Free Full Text." be changed to "EClinicalMedicine 2020; 29: 100630 [PMID: 33200120 DOI: 10.1016/j.eclinm.2020.100630]"? Please check other references including content and format carefully according to the journal's requirements. Throughout the text, please correct the typos, tense and grammatical errors carefully, such as: In "RESULTS" section, should "...OR 1.71..." be changed to "...OR 1.17..."? In table 1, should "Table 1: Studies involved in out meta-analysis" be changed to "Table 1 Studies involved in our meta-analysis"? Other suggestiones have been listed in the uploaded revised version.

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Title: Mortality Rate of COVID-19 infection in ESKD patients on maintenance hemodialysis: Systematic Review with Meta-Analysis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06247743

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-02 05:24

Reviewer performed review: 2022-02-10 08:48

Review time: 8 Days and 3 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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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

In this manuscript, the authors highlight the Mortality Rate of COVID-19 infection in ESKD patients on maintenance hemodialysis: Systematic Review with Meta-Analysis. Overall, the topic is interesting and important; however, the manuscript has major drawbacks and limitations related to data management and statistical analysis, methods, presentation of results and quality of writing. The manuscript requires a full edit for grammar and syntax; I have not pointed out each instance. Major considerations:

Why did authors use only two Database (PubMed and Cochrane)? Other databases such as ScienceDirect, Web of Science, ProQuest, Google Scholar etc..., why not considered. Please provide the exact search, as it is unclear how these terms were combined in each database. Were synonyms for these terms included? Provide the syntax for each databases appropriately. I could not find any Egger's funnel plot, Begg's funnel plot and Meta-regression analysis in the text. Please provide these items.

Several sections have not been reported in the manuscript according to PRISMA guideline (<https://pubmed.ncbi.nlm.nih.gov/31388330/>) The authors did not mention how they removed the duplicates. Finally, all the analyzed studies must be in the references chapter.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript NO: 75515

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Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Chief Physician

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-02-01

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2022-05-27 15:44

Reviewer performed review: 2022-05-29 14:13

Review time: 1 Day and 22 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
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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 title, "Systematic Review with Meta-Analysis" should be changed to "A systematic review and meta-analysis". In page 1, Cancarevic I et al. should be added before the running title " Mortality rate of COVID-19 infection in ESKD patients". In "RESULTS" section, "figure 2" should be changed to "Figure 2". Other places should be modified accordingly. Throughout the text, "Covid-19" should be changed to "COVID-19". 2. In references, all DOI should be provided. Other suggestions have been listed in the uploaded revised version.