

PEER-REVIEW REPORT

Name of journal: World Journal of Virology

Manuscript NO: 67311

Title: COVID-19 in dialysis units: a comprehensive review

Reviewer's code: 05382654

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Chief Physician

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2021-04-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-05 03:58

Reviewer performed review: 2021-05-09 03:31

Review time: 3 Days and 23 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 Grade E: Do not publish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="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This MS mainly reviewed the epidemiology of COVID-19, the screening of healthcare personnel, dialysis patients and visitors, the safety of the dialysis facilities' environment, the conducts regarding an outbreak of SARS-CoV-2 infection, the management of complications in dialysis patients with COVID-19 and the conducts directed towards children with kidney disease in dialysis units, which provided valuable information for prevention and control of SARS-CoV-2 infection in dialysis units. However, some revisions are still needed before being published in World Journal of Virology. 1. In page 1, running title and corresponding author should be provided. Additionally, in "Supported by the authors" section, the approved grant application form(s) or funding agency copy of any approval document(s) must be provided. Full name (such as COVID-19 and SARS-CoV-2) should be given for the first time. 2. Please refer to recent papers published in World Journal of Virology and correct the format. In page 2, "Key words" should be changed to "Key Words". "renal dialysis" should be changed to "Renal dialysis". Note that key words should be uppercase or lowercase according to the journal's requirements. Full name (such as HCP) should be given for the first time. In page 2, line 22, "(1,2)" should be changed to "[1,2]". Other citations should be modified accordingly. Throughout the text, all "SARS-Cov-2" should be changed to "SARS-CoV-2". 3. In "DEALING WITH AN OUTBREAK" section, it is suggested that figure 1 and figure 2 could be combined into a single figure and management of visitors could be added in the combined figure. Additionally, figure 1 and figure 2 should be indicated in the corresponding text. In figure legends, all abbreviations should be given in full text according to the journal's requirements. 4. In all references, all journal title should be italics. In reference 1, "J Med Virol. 2020 Jun;92(6):577-583. [DOI: 10.1002/jmv.25757 PMID: 32162702 PMCID: PMC7228329]" should be changed to "J Med Virol 2020; 92:577-583 [PMID: 32162702 DOI: 10.1002/jmv.25757]". In reference 6,

“| WHO Coronavirus Disease (COVID-19) Dashboard [Internet]. [cited 2021 Mar 1]” should be changed to “[cited Mar 1, 2021]”. Please check other references including content and format carefully according to the journal’s requirements. Other suggestiones have been listed in the uploaded revised version.

PEER-REVIEW REPORT

Name of journal: World Journal of Virology

Manuscript NO: 67311

Title: COVID-19 in dialysis units: a comprehensive review

Reviewer's code: 05824934

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Singapore

Author's Country/Territory: Brazil

Manuscript submission date: 2021-04-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-21 03:06

Reviewer performed review: 2021-05-10 01:45

Review time: 18 Days and 22 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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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
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

In this paper, the authors carried out a comprehensive review on the COVID-19 epidemiology in dialysis units, provided recommendations on the screening of healthcare personnel, patients and visitors; the safety operation of the dialysis environment; the management of an outbreak of SARS-CoV-2 infection within a dialysis facility; and other related topics related to dialysis. The manuscript is well structured and should be published in world Journal of Virology if the following careless typos can be corrected: 1. Page 4, line 1, “HD patients are cannot perform” should be “HD patients cannot perform”; 2. Page 12, line 1, “Although CKD in considerably” should be “Although CKD is considerably”; line 3, “determinate” should be “determine”. The manuscript would be more compendious if some in-depth discussion on the physiopathology of AKI can be included. Although the pathophysiology of AKI is still elusive, clinical evidence shows that the direct viral infection does not account for the observed renal damage. The hyperinflammation induced by the immune system might rather be responsible for kidney injury in severe cases of COVID-19 [1]. The following reference may be included in the manuscript: 1. Le Stang, MB; Desenclos, J; Flamant, M; Chousterman, BG; Tabibzadeh, N. The Good Treatment, the Bad Virus, and the Ugly Inflammation: Pathophysiology of Kidney Involvement During COVID-19. *Front. Physiol.* 2021; 12: 613019. (DOI: 10.3389/fphys.2021.613019).

PEER-REVIEW REPORT

Name of journal: World Journal of Virology

Manuscript NO: 67311

Title: COVID-19 in dialysis units: a comprehensive review

Reviewer's code: 05869546

Position: Peer Reviewer

Academic degree: MD

Professional title: Research Fellow

Reviewer's Country/Territory: United States

Author's Country/Territory: Brazil

Manuscript submission date: 2021-04-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-05 01:20

Reviewer performed review: 2021-05-13 15:29

Review time: 8 Days and 14 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 checked="" type="checkbox"/> Minor revision <input 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

The manuscript sheds some light on main recommendations concerning the screening of healthcare personnel, dialysis patients and visitors; the safety of the dialysis facilities' environment; the conducts regarding an outbreak of SARS-CoV-2 infection within a dialysis facility; the management of complications in dialysis patients with COVID-19; Not sure if there is enough information provided to state it has information directed towards children with kidney disease. Abstract needs to be rewritten. The objective of this manuscript is not clear from this abstract. Please follow - First sentence should imply question underlying the research study - Next explain what previous research has demonstrated (a rationale for new search or this manuscript) - The data, research and analytical methods used in this manuscript The major findings from an implications and significance of this manuscript A short paragraph is needed in introduction section for pathophysiology of SARS-CoV-2 on Kidneys (role of ACE2 receptor) Introduction section mentions "variety of clinical manifestations" - what are they? Please refer to paragraph here: Dialysis units should be encouraged to decrease the flow of people during the pandemic; therefore, it is not indicated that other individuals accompany patients on dialysis to reduce person to person transmission? (22,25). It can be allowed in situations of extreme need, but it should only be considered on a case-by-case analysis. In this matter, it is recommended that the companions wear surgical masks, N95 or similar and obey the same basic rules as dialysis patients, e.g., social distancing (22,24,25,29). Provide information what is considered "extreme need"? are there CDC or WHO guidelines specific to visitors?