

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 62646

Title: COVID-19 combined with liver injury: Current challenges and management

Reviewer's code: 03834532

Position: Editorial Board

Academic degree: MBChB, MD, MSc, PhD

Professional title: Professor

Reviewer's Country/Territory: Qatar

Author's Country/Territory: China

Manuscript submission date: 2021-01-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-14 09:44

Reviewer performed review: 2021-01-20 08:32

Review time: 5 Days 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 Grade E: Do not publish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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Reviewer's report (1): REVIEW: Ling Deng et al., General comment: This is an interesting study addressing the association of COVID -19 with liver injury. Satisfaction: The topic is of great interest to the readers in many specialties. Personally, I enjoyed reading the manuscript and I really appreciate the topic selection which is a state of art and I have to congratulate the authors for giving this effort in this hard time. Title: "The incidence, pathogenesis, prevention and treatment of COVID-19 combined with liver injury " The title is appropriate, original and reflect the authors intension however, it is not very attractive to the readers at the first glance, I encourage the authors to search for more specific and catchy title :e.g "Management of COVID-19 associated liver injury" 1) Abstract: Concise, expressive and acceptable in the current format. I suggest the following to improve the abstract • Core tip: This article aims at providing additional view at the incidence of COVID-19 associated liver injury and to explore the contemporary management modalities. 2) Introduction: • The introduction is very short, I think it needs to prepare the reader for the receiving the rest of the knowledge presented by the authors • The authors should include something about the gap they want to fill, also many literatures addressed this context, the daily updates in COVID-10 management needs special attention. Why the authors will address the pathogenesis also. • Some grammar and spelling mistakes exist and needs a secondary revision by native English speaker e.g do not start the sentence with also "line 3", line 9 "observedmany" the last sentence is not acceptable in the current forma "Herein, by evaluates the incidence, pathogenesis, prevention and progress of prevention and treatment of COVID-19 combined with liver injury, this article aims to provide countermeasures for the prevention and treatment of new coronary pneumonia combined with liver injury." Needs rephrasing 3) Main article a) The incidence part is well written as well as tee planation of the current differences in the literatures



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• Again spelling and editing needed “Therefore, Some” in the last sentence Also, these are the most common main mechanisms described in the literatures, but other mechanisms could exist as well that need to be adequately described as a review article

b) The pathogenies is well organized and informative but agin it includes a lot of spelling and editing mistakes make the manuscript difficult to follow e.g : “More and more evidence shows should be More and more evidences showed” , “through transmission electron microscopy (Transmission Electron Microscop, referred to as TEM) repetition, “Sars-cov-2” should be capital letters , “viasingle” “inorchestrating” please correct c) The immune part is informative d) The drug induced liver injury needs a critical revision, the reader need to know more about the antiviral drugs and the mechanism of inducing liver injury e) “Some antibiotics and most antifungal drugs have specific effects on liver function [36]. The reader needs to know what kind of antibiotics and antifungal used in the course of treating COVID-19 co-infection can induce liver injury and or you may remove this sentence and make more concentration on the antiviral. f) Chloroqiune is still used in some countries and need to elaboration its effects on the liver and there is historical value of mentioning it g) “Traditional Chinese medicine plays an essential role in treating the new coronary pneumonia, but it can also cause liver injuries [37]. Need more elaboration about the mechanism h) The impact of underlying diseases on patients’ liver function. This part is important and needs to be -re-written not only putting the impact of chronic general diseases but also the impact of chronic liver diseases i) Liver ischemia and hypoxia needs more explanation j) The authors did not mention anything about monitoring the liver in patient with COVID-9 pneumonia, and continuous monitoring in case of liver injury. k) In the tenement section the authors mentioned “Specific liver protection drugs include anti-inflammatory and detoxification liver protection” but the authors wrote only antioxidant in the is context, so please explain or remove anti-inflammatory l) Give

effective oxygen therapy in time this section needs to be re-written, most of the efforts in treating COVID-19 pneumonia are directed towards reversing hypoxemia, the modalities used are following the ardsnet, continuous renal replacement therapy (CRRT) Should be used only when there is fluid overload in the settings of acute kidney injury , “artificial liver dual plasma molecular adsorption system (DPMAS), etc. Used to improve oxygenation, reduce myocardial oxygen consumption” this needs to be removed s it is not clear m) Choosing the appropriate antiviral section needs to be reduced n) Conclusion, is very long and needs to be reduced 8) Level of interest: An article of importance in its field 9) Quality of written English: Need a secondary revision by a professional editor 10) Ethical concerns: The author explained the ethical concerns 11) References: a. The references style adequately followed the Word Journal of Gastroenterology guidance. References 50 , 54, 58, 60, 64, require revision to follow the journal style 12) Declaration of competing interests: I declare that I have no competing interests.