

PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 79877

Title: COVID-19-related liver injury: Focus on genetic and drug-induced perspectives

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05121314

Position: Associate Editor

Academic degree: FACS, FEBS, MD, PhD

Professional title: Assistant Professor, Senior Lecturer, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: India

Manuscript submission date: 2022-09-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-14 16:08

Reviewer performed review: 2022-09-15 14:23

Review time: 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 Grade E: Do not publish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
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	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

This is a review on COVID19 mechanisms related to liver injury. Although this focuses on the mechanisms of a single organ only, the concepts expressed throughout might be of relevance for a broader audience.

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Peer-review model: Single blind

Reviewer's code: 03769070

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: India

Manuscript submission date: 2022-09-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-14 02:59

Reviewer performed review: 2022-09-22 00:38

Review time: 7 Days and 21 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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SPECIFIC COMMENTS TO AUTHORS

Dear author, The considerations pointed out are to adapt the manuscript to the rules of WJG. 1. Please note that the manuscript must be prepared using 12 pt Book Antiqua font and 1.5 line spacing. 2. Information on authorship, institution, ORCID number, contributions of authors, corresponding author were not provided. 3. Abstract (no less than 200 words), keywords and core tip were not presented. 4. In the INTRODUCTION (page 1) is the term "S20 site" correct? 5. In the INTRODUCTION (page 1) the term "golgi" should be written in capital letter. 6. In the INTRODUCTION (page 1) there is no hyphen in "In-fact". 7. In the RESULTS (page 5): "showed a >5 UNL". What's UNL mean? 8. Please standardize the citation of references in the text. Sometimes the surname and the initial of the first name are mentioned, other times only the author's surname is provided - "Delgado A et al"; "Carothers et al". 9. In the RESULTS (page 7) - "Sporadic cases of mild increases in serum bilirubin and alkaline phosphatase is reported." Please check this sentence. Best regards

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Title: COVID-19-related liver injury: Focus on genetic and drug-induced perspectives

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Peer-review model: Single blind

Reviewer's code: 03455028

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-09-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-14 03:16

Reviewer performed review: 2022-09-26 07:48

Review time: 12 Days and 4 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

SPECIFIC COMMENTS TO AUTHORS

This article reviews coronavirus disease 2019 (COVID-19) treatment-related drug-induced liver injury (DILI) and its possible genetic factors. The recent outbreak of COVID-19 caused by the Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) has resulted in a world-wide pandemic. Infection with this virus not only causes respiratory symptoms but may also involve the patient's liver to varying degrees during the course of the disease. The reasons for the occurrence of liver damage in COVID-19 patients are multifactorial. In addition to cytopathic injury induced directly by the virus via ACE 2, DILI adverse events have a significant impact. This manuscript includes a fairly comprehensive list of the hepatotoxic effects of various types of COVID-19 therapeutic agents, as well as summaries and explorations into etiology and genetics. I am not aware from this manuscript whether there are currently uniform and clear specific criteria for determining or assessing DILI associated with COVID-19 treatment. If so, please describe; if not, what is the potential evidence that warns of the presence of DILI? The authors mentioned the nature and characteristics of liver injury triggered by some drugs. Is DILI caused by different types of drugs of the same type? Is there any difference in the degree of risk? Perhaps a further systematic summary and comparison of the similarities or differences and severity of different drug-induced liver injuries could be made. There are a number of minor language flaws. Please double-check the grammar throughout, especially the incorrect use of plural and singular forms (e.g., "devastating effect" and "variant of interests").