

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62980

Title: Advances of liver injury in COVID-19: Detection, pathogenesis and treatment

Reviewer's code: 03755224

Position: Associate Editor

Academic degree: FACS, FRCS, MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-01-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-01-27 10:26

Reviewer performed review: 2021-01-27 11:15

Review time: 1 Hour

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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (High priority) <input 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



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SPECIFIC COMMENTS TO AUTHORS

I would like to congratulate the authors of this paper for the excellent review of the mechanisms of liver injury in relation to COVID-19 infection. The coexistence of a cytokine storm, and the toxicity of the drugs used in the treatment, are adverse factors especially in patients with previous hepatopathies. The present study provides a comprehensive description of the pathophysiological mechanisms of these lesions. Of interest is the analysis of hyperpigmentation due to the involvement of the adrenal cortex when melanin production is stimulated, together with the increased conversion of tyrosine to melanin. One of the limitations is the absence of liver biopsies in early stages of the disease. It is also important to describe the factors involved in the disease, and finally to describe the therapeutic measures used, especially Glycyrrhizic acid, in addition to other supportive therapies. I reiterate my congratulations.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62980

Title: Advances of liver injury in COVID-19: Detection, pathogenesis and treatment

Reviewer's code: 04737441

Position: Peer Reviewer

Academic degree: MBChB, MD, MSc, PhD

Professional title: Doctor, Lecturer

Reviewer's Country/Territory: Egypt

Author's Country/Territory: China

Manuscript submission date: 2021-01-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-01-28 09:58

Reviewer performed review: 2021-01-28 11:17

Review time: 1 Hour

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 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 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 review is very important as it is summarizing a very trendy topic which is liver affection by SARS-CoV2. However, It would be great to provide figure to summarize the mechanism of liver injury.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62980

Title: Advances of liver injury in COVID-19: Detection, pathogenesis and treatment

Reviewer's code: 05077657

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow, Doctor, Research Fellow

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2021-01-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-01-29 09:08

Reviewer performed review: 2021-01-30 21:04

Review time: 1 Day and 11 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 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 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 topic is very interesting and described a serious problem. Sars-COV 2 infection is a challenging problem for the clinician and the knowledge of clinical manifestations and pathogenesis mechanism is very important in terms of prognosis. In Cai et al. manuscript the English is good and figure are also clear.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62980

Title: Advances of liver injury in COVID-19: Detection, pathogenesis and treatment

Reviewer's code: 02445886

Position: Editorial Board

Academic degree: DSc, PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: Russia

Author's Country/Territory: China

Manuscript submission date: 2021-01-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-02-01 11:40

Reviewer performed review: 2021-02-03 12:22

Review time: 2 Days

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 checked="" type="checkbox"/> Accept (High priority) <input 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

The topic of the article is an analysis of the clinical features, potential mechanisms, and treatment strategies for liver injury associated with COVID-19. Although the lung is the main organ that is damaged in COVID-19, approximately 60% of the patients have been reported to develop various degrees of liver injury in several studies. Accumulating clinical data show that liver damage is related to the severity of COVID-19 and is a major cause of death from COVID-19, especially in the presence of hepatic failure. Thus, early detection, effective treatment, and elucidation of the mechanisms underlying the pathogenesis of liver damage are urgently needed for COVID-19 patients. The authors summarize the characteristics of COVID-19-associated liver injury from multiple perspectives, including clinical features (manifestation, laboratory examinations, liver biopsy, etc.), underlying pathogenesis (direct viral cytotoxicity, uncontrolled cytokine storm, drug-induced toxicity, etc.), special population of patients (those with cirrhosis, hepatitis B, liver transplantation, etc.), and clinical management (drugs, oxygen therapy, artificial liver blood purification, etc.). The manuscript is well written, the title reflects the main subject of the manuscript, the abstract and key words reflect the main topics of the entire text. The discussion is informative and helpful. The article cites 84 relevant and important references and gives a complete picture of the topic. I suggest to accept the manuscript with no specific comments.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62980

Title: Advances of liver injury in COVID-19: Detection, pathogenesis and treatment

Reviewer's code: 00189256

Position: Editorial Board

Academic degree: MD, MDS, PhD

Professional title: Professor

Reviewer's Country/Territory: Ukraine

Author's Country/Territory: China

Manuscript submission date: 2021-01-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-01-31 11:48

Reviewer performed review: 2021-02-21 20:08

Review time: 21 Days and 8 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 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 review focuses on studying the important problem of hepatology – the liver injury in patients with coronavirus disease-2019 (COVID-19). In this review authors are present an analysis of the clinical features, potential mechanisms, and treatment strategies for liver injury associated with COVID-19. This review would benefit clinicians in devising better strategies for management of patients. The obtained results are discussed in-depth literature analysis on the investigated problem. The authors summarized the latest results in research on determining the clinical features, potential mechanisms, exacerbation of underlying hepatic dysfunction in patients with chronic liver diseases, and treatment strategies for patients with COVID-19. I recommend the article to publication.