

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63415

Title: Hepatocellular Carcinoma in Patients with Renal Dysfunction: Pathophysiology, Prognosis, and Treatment Challenges

Reviewer's code: 02942018

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Taiwan

Manuscript submission date: 2021-01-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-30 14:57

Reviewer performed review: 2021-02-19 09:04

Review time: 19 Days and 18 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 Grade E: Do not publish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 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

This manuscript describes the pathogenesis and treatment challenges of hepatocellular carcinoma with renal insufficiency from many aspects, which is rich in content and combined with clinical practice. However, there are still some problems in this manuscript.

1. In the abstract part, the sentence "this study first summarizes the possible causes of the high morbidity of HCC and renal dysfunction" describes that "this manuscript summarizes the relationship between HCC and renal insufficiency for the first time". The above description is a bit far fetched because many reviews have described "the relationship between HCC and renal insufficiency". For example, "Ho SY, Hsu CY, Liu PH, et al. Survival of Patients with Hepatocellular Carcinoma in Renal Insufficiency: Prognostic Role of Albumin-Bilirubin Grade. *Cancers (Basel)*. 2020 Apr 30;12(5):1130."

2. The common immune checkpoints include PD-1, tim3 and CTLA-4. The author only described the relationship between PD-1, CTLA-4 and HCC, but not the relationship between tim3 and HCC.

3. Jeon MY 等在 2020 年的最新文献讲述了“恩替卡韦和替诺福韦对乙型肝炎病毒相关性肝癌患者肾功能的影响”，而本综述貌似没有提到“恩替卡韦和替诺福韦”，建议将上述参考文献添加进去。（参考文献：Jeon MY, Lee JS, Lee HW, et al. Entecavir and tenofovir on renal function in patients with hepatitis B virus-related hepatocellular carcinoma. *J Viral Hepat*. 2020 Sep; 27(9):932-940.）

3. The latest literature of Jeon my et al. In 2020 describes "the effect of entecavir and tenofovir on renal function of patients with hepatitis B virus associated liver cancer", but this review seems not to mention "entecavir and tenofovir", so it is suggested to add the above references.（References: Jeon MY, Lee JS, Lee HW, et al. Entecavir and tenofovir on renal function in patients with hepatitis B virus-related hepatocellular carcinoma. *J Viral Hepat*. 2020 Sep; 27(9):932-940.）

4. The content of this review is very long, but no page number is added.

5. The reference "Sarno G, Montalti R, Giglio MC, Rompianesi G, Tomassini F,

Scarpellini E, De Simone G, De Palma GD, Troisi RI. Hepatocellular carcinoma in patients with chronic renal disease: Challenges of interventional treatment. *Surg Oncol* 2020; 36: 42-50" was published in 2021. 2020 should be changed to 2021.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

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Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-03-19 07:10

Reviewer performed review: 2021-03-19 07:27

Review time: 1 Hour

Scientific quality	[<input checked="" type="radio"/>] Grade A: Excellent [<input type="radio"/>] Grade B: Very good [<input type="radio"/>] Grade C: Good [<input type="radio"/>] Grade D: Fair [<input type="radio"/>] Grade E: Do not publish
Language quality	[<input checked="" type="radio"/>] Grade A: Priority publishing [<input type="radio"/>] Grade B: Minor language polishing [<input type="radio"/>] Grade C: A great deal of language polishing [<input type="radio"/>] Grade D: Rejection
Conclusion	[<input checked="" type="radio"/>] Accept (High priority) [<input type="radio"/>] Accept (General priority) [<input type="radio"/>] Minor revision [<input type="radio"/>] Major revision [<input type="radio"/>] Rejection
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

SPECIFIC COMMENTS TO AUTHORS

According to the comments of the reviewers, the author made a careful revision. I suggest that the article be accepted.