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PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Surgery

Manuscript NO: 86218

Title: Hepatic ischemia-reperfusion syndrome and its effect on the cardiovascular

system: The role of treprostinil, a synthetic prostacyclin analog

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03721758

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Lecturer, Surgeon

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Greece

Manuscript submission date: 2023-06-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-09 18:29

Reviewer performed review: 2023-06-12 19:30

Review time: 3 Days and 1 Hour

[] Grade A: Excellent [Y] Grade B: Very good [] Grade C:
Good
[] Grade D: Fair [] Grade E: Do not publish
[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair
[] Grade D: No creativity or innovation



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Scientific significance of the conclusion in this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y] Yes [] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear authors This is a well designed study summarizing the potential beneficial role of treprostinil, a new synthetic prostacyclin analogue in the management of hepatic ischemia-reperfusion syndrome. This is a well designed and arranged and written study addressing this critical issue. My only comments are: 1- Conclusion section: better to be shortened. 2- Title: please delete the words (relatively new). 3- Grammar: I could hardly find any grammatical defects. 4- References: well updated.



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Reviewer's code: 02542027 Position: Peer Reviewer Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2023-06-09

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-07-14 07:40

Reviewer performed review: 2023-07-14 08:49

Review time: 1 Hour

	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
Creativity or innovation of	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair
this manuscript	[] Grade D: No creativity or innovation



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Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y] Yes [] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is a very interesting review. Overall, the perspective chosen in this paper is the current hot field, and focusing on liver transplant immunity and IRI is a trend in our digestive system. The amount of literature cited in this article is a little low, so it needs to be supplemented appropriately. For the part of non-coding Rnas regulating hepatic IRI, please refer to the following literature:Inhibition of miR-450b-5p ameliorates hepatic ischemia/reperfusion injury via targeting CRYAB, PMID: 32532961 PMCID: PMC7293338 DOI: 10.1038/s41419-020-2648-0. and Research progress of lncRNA and miRNA ischemia-reperfusion injury, PMID: 35934611 hepatic 10.1016/j.hbpd.2022.07.008. The language of this article is fluent, and I don't think additional polishing is needed. In exploring the mechanism of hepatic IRI, I suggest that the authors cite the following literature (for consideration only): A new heparin fragment decreases liver ischemia-reperfusion injury, PMID: 34366197 DOI: 10.1016/j.hbpd.2021.07.004 . MicroRNA-125b protects liver from ischemia/reperfusion injury via inhibiting TRAF6 and NF-kB pathway, PMID: 30686117 DOI: 10.1080/09168451.2019.1569495 . TRIM37 exacerbates hepatic ischemia/reperfusion



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injury by facilitating IKKy translocation, PMID: 37158850 PMCID: PMC10165779

DOI: 10.1186/s10020-023-00653-2. Finally, in Table 1. Hepatic ischemia-reperfusion injury mechanisms, the large arrow in the table does not seem to be necessary