

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 58389

Title: Metalloproteinase expression after desflurane preconditioning in hepatectomies. A randomized clinical trial.

Reviewer's code: 03656613

Position: Editorial Board

Academic degree: BSc, MD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-21

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-08-26 03:38

Reviewer performed review: 2020-08-29 07:33

Review time: 3 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Major revision <input checked="" 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

In this study, the authors show desflurane preconditioning can lessen the inflammatory response related to ischemia-reperfusion injury in hepatectomy. The study is interesting. There are two problems. 1 The sample size (46 cases in 2 group) is not enough to reach a good conclusion. 2 The research adapts only to a small number of readers of WJG, it is suggested to submit the manuscript to journals on anesthesiology.

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 58389

Title: Metalloproteinase expression after desflurane preconditioning in hepatectomies. A randomized clinical trial.

Reviewer's code: 03656586

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-21

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-08-25 13:57

Reviewer performed review: 2020-08-30 21:49

Review time: 5 Days and 7 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 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

1. Explore the possible mechanisms by which desflurane preconditioning decreased the inflammatory response and ameliorated the coagulation status following hepatic IRI.
2. Provide the original pathological figures about the degree of steatosis and the level of fibrosis in addition to the table (Table 4).

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 58389

Title: Metalloproteinase expression after desflurane preconditioning in hepatectomies. A randomized clinical trial.

Reviewer's code: 03656608

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-21

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-08-25 13:55

Reviewer performed review: 2020-08-31 04:11

Review time: 5 Days and 14 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 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

Vascular occlusion during hepatectomy accompanies ischemia-reperfusion injury, which can cause liver dysfunction and affect patients' outcome. Anesthetic conditioning is a widely described strategy to attenuate ischemia-reperfusion injury. Hepatic ischemia-reperfusion injury is a complex pathophysiological process which increases local inflammation, leading to secretion of cytokines and chemokines. Matrix metalloproteinases (MMPs) have a regulatory function in immunity and inflammation by proteolytic activation or degradation of cytokines and chemokines. In this manuscript, the authors sought to investigate the effect of desflurane preconditioning on inflammatory indices in patients with inflow occlusion undergoing hepatectomy. This is a carefully done study and the findings are of considerable interest. Only minor revisions are required. Discussion--- The described limitations within the reflection of the results could be worked out more deeply within this part. References should be uniform. The references are in variable format and need to be consistent and in the format required by the Journal.