

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 85062

Title: Risk factors and their interactive effects on severe acute pancreatitis complicated with acute gastrointestinal injury

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519740

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor, Researcher, Senior Researcher

Reviewer's Country/Territory: Israel

Author's Country/Territory: China

Manuscript submission date: 2023-05-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-09 03:37

Reviewer performed review: 2023-05-17 08:31

Review time: 8 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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

SPECIFIC COMMENTS TO AUTHORS

In this study, the authors analyzed the 168 patients with SAP treated in their hospital. Acute gastrointestinal injury is a common complication of severe acute pancreatitis. Patients with AGI are prone to gastrointestinal dysfunction and mucosal injury, aggravating the degree of pancreatic inflammation, causing multiple organ dysfunction and endangering patients' lives. However, most studies have investigated the risk factors for AGI, while reports on the interaction between risk factors are few. In this manuscript, Authors analyze the risk factors for AGI and determine their interactive effects on SAP to provide a rationale for clinical treatment. The 168 SAP patients were divided into AGI group and non-AGI group according to whether AGI was present. Demographic data and laboratory test data were compared between the two groups. The risk factors for SAP with concomitant AGI were analyzed using multifactorial logistic regression, and an analysis of the interaction of the risk factors was performed. Their results showed that APACHE II score > 15 and creatinine level > 100 $\mu\text{mol/L}$ were independent risk factors for SAP complicated with AGI, and there was a positive interaction between them. It is a very interesting research with important clinical

relevance due to it has guiding value for controlling the development of AGI and improving the prognosis of SAP.

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Title: Risk factors and their interactive effects on severe acute pancreatitis complicated with acute gastrointestinal injury

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519670

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor, Lecturer, Researcher

Reviewer's Country/Territory: Poland

Author's Country/Territory: China

Manuscript submission date: 2023-05-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-08 00:38

Reviewer performed review: 2023-05-18 00:10

Review time: 9 Days and 23 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

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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 authors of this study aimed to analyze the risk factors for SAP complicated with AGI and their interactive effects. To do this, they analyzed the The risk factors for SAP with concomitant AGI of 168 patients with SAP using multifactorial logistic regression. I have no objections as far as methods are concern. This topic is actual and well described. The manuscript is well written and very interesting, and authors presented also the limitations of the study. They concluded that an APACHE II score >15 and CRE level >100 $\mu\text{mol/L}$ are independent risk factors for SAP complicated with AGI, and there is a positive interaction between them. The article provides an essential reference for researchers in this field and also confirms the risk factors of AGI in SAP patients, which is of great guiding significance for the clinical treatment of SAP. I recommend that the manuscript can be published.