



**PEER-REVIEW REPORT**

**Name of journal:** *World Journal of Gastrointestinal Surgery*

**Manuscript NO:** 85597

**Title:** Prediction model of stress ulcer after laparoscopic surgery for colorectal cancer established by machine learning algorithm

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer’s code:** 06520268

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

**Reviewer’s Country/Territory:** United States

**Author’s Country/Territory:** China

**Manuscript submission date:** 2023-05-31

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-06 10:45

**Reviewer performed review:** 2023-06-12 08:58

**Review time:** 5 Days and 22 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Novelty of this manuscript</b>	<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
<b>Creativity or innovation of this manuscript</b>	<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



<b>Scientific significance of the conclusion in this manuscript</b>	<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 scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

Laparoscopic surgery is a promising way for CRC treatment, which is still a traumatic treatment, as it can cause certain damage and mechanical stimulation, such as stress ulcer, in the patient CRC. In this study, the authors aimed at developing a predictive model to reduce mortality, accurately forecast CRC predisposition, and provide targeted treatment for high-risk groups. The authors used primary clinical data, multivariate logistic regression analysis, and nomogram to construct their model. The results showed that age  $\geq 65$  years, lymph node metastasis, and elevated HSP70, HSP90, and GAS are independent risk factors for postoperative SU in CRC patients. So, in my opinion, this paper is well-written. The model design is reasonable, and the results reflects the conclusion as well. I recommend its acceptance after the minor revision. The detailed comments are: 1. In the first paragraph of Discussion, the authors reviewed the background of this study again. In my opinion, this content can be integrated in the Introduction part. 2. It is always said that high salt diet is a potential risk leading to CRC. I wonder whether this factor can be added into the authors' new model?



**PEER-REVIEW REPORT**

**Name of journal:** *World Journal of Gastrointestinal Surgery*

**Manuscript NO:** 85597

**Title:** Prediction model of stress ulcer after laparoscopic surgery for colorectal cancer established by machine learning algorithm

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer’s code:** 06520019

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor

**Reviewer’s Country/Territory:** United States

**Author’s Country/Territory:** China

**Manuscript submission date:** 2023-05-31

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-04 13:36

**Reviewer performed review:** 2023-06-14 01:09

**Review time:** 9 Days and 11 Hours

<b>Scientific quality</b>	<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
<b>Novelty of this manuscript</b>	<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
<b>Creativity or innovation of this manuscript</b>	<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



<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 build a predictive model based on machine learning and use it to predict the risk of stress ulcer in colorectal cancer patients underwent laparoscopic surgery, which is a powerful tool for the prognosis of patients. After reasonable grouping the patients, the authors showed that age, lymph node metastasis, and elevated HSP70, HSP90, and GAS are important risk factors to predict stress ulcer (SU). This result also draws a conclusion that the predictive model can be constructed by comparing the significant differences between SU and non-SU group. In short, the topic of this manuscript is timely and interesting. The authors have organized the manuscript rationally, with good methodology and well-written English. However, some important editing needs to be done before publication: 1) In this retrospective study, the authors selected 17 factors related to CRC for analysis and building the predictive model. So, what is the inclusion criteria to select the related factors? 2) Herein, 135 CRC patients were divided into SU and non-SU groups for analysis. However, only 23 patients underwent stress ulcer. Is such a data volume enough to build a reliable predictive model?