

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 86428

Title: Immune function, gastrointestinal hormone levels, and their clinical significance in patients with gastric ulcers complicated with depression

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06521590

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Researcher

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

Manuscript submission date: 2023-07-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-23 22:22

Reviewer performed review: 2023-08-02 08:56

Review time: 9 Days and 10 Hours

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| 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 Grade E: Do not publish |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 |

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| 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

Recently, psychophysiological factors have been significant in the pathogenesis of gastrointestinal illnesses. However, the impact of psychological factors on disease occurrence and progression in clinical practice is often overlooked, which makes it difficult to treat patients comprehensively. In this study, Yang YH et al. the authors conducted a retrospective analysis of 300 patients with GU combined with depression from January 2021 to June 2022, to analyze two indexes of immune function and gastrointestinal hormones and explored the factors influencing the severity of GU concurrent depression using multivariate logistic regression analysis. They found that the important influencing factors of GU with depression were serum IgA, IgM, GAS, and CCK indices, indicating that immune function indicators (IgA and IgM) combined with gastrointestinal hormone levels (GAS and CCK) have good efficacy and significance in predicting the severity of GU and depression. Very interesting study. And the manuscript is well written. The experiment of the study is designed very well, aims are very clear. Methods are reasonable. Data in tables are very good, and well discussed.

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Peer-review model: Single blind

Reviewer's code: 07746864

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

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| 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 checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty |
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| Re-review | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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| | Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

This study explored the factors influencing GU combined with depression is important for clinical treatment and the improvement of patients' quality of life. The manuscript is well designed and written. The introduction gives a good overview about the topic and the procedures are precisely described. The results were well discussed. Serum IgA, IgM, GAS, and CCK levels were the influencing factors affecting the severity of GU combined with depression; the AUC of immune function (IgA, IgM) and gastrointestinal hormone levels (GAS, CCK) for the prediction of GU with depression severity was 0.958 (95%CI: 0.933–0.976). The tables help the readers to make a more understanding of the study; The statistics are good, properly using SD. The discussion section gave emphasis to the new contribution of the study in its field. I have the following questions and comments: 1: When will the subjects in the study be evaluated for the Hamilton Depression Scale (HAMD)? Does your hospital routinely assess for HAMD in patients with GU? 2. Is it necessary to specify in the inclusion criteria that the patient's data are complete?