

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 86036

Title: Carcinoembryonic antigen, carbohydrate antigen 199 and carbohydrate antigen 724 in gastric cancer and their relationship with clinical prognosis

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06120604

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-06-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-26 00:24

Reviewer performed review: 2023-07-06 02:59

Review time: 10 Days and 2 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 Grade E: Do not publish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

Scientific significance of the conclusion in 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 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

The authors collected abundant clinical data to explore the diagnostic role of tumor markers of CEA, CA199 and CA724 in gastric cancer and their relationship with clinical prognosis. After reasonable setting groups of gastric cancer and control, the authors showed that the serum levels of CEA, CA199 and CA724 in gastric cancer group were significantly higher than those in control group ($P < 0.05$). The authors also found that the serum CEA, CA199 and CA724 expression levels in gastric cancer patients increased significantly with the increase of TNM stage, and the differences between groups were statistically significant ($P < 0.05$). 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 minor editing needs to be done before publication: 1. In this study, the authors said that gastric cancer usually develops insidiously without any specific symptoms in the early stages. So, with the help of tumor markers CEA, CA199 and CA724, how likely is the tumor to be diagnosed early? 2. The authors should provide appropriate ethical statement in this manuscript.

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06120684

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Researcher

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

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Review time: 11 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
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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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

Generally, gastric cancer (GC) is a common malignant tumor of the digestive system originating from gastric epithelial cells, which lacks effective early diagnostic method. To address this challenge, in this study, the authors aimed at investigating the diagnostic value of tumor markers CEA, CA199 and CA724 in gastric cancer. The authors used primary clinical data, tumor marker detection, and statistical analysis to verify their hypothesis. The results showed that compared with healthy people, GC patients showed higher level of CEA, CA199 and CA724 in serum. Also, the expression levels of various indicators raised significantly with the increase of TNM stage. So, in my opinion, this paper is well-written. The experimental group setting is reasonable, and the results reflects the conclusion as well. I recommend its acceptance after the minor revision. The detailed comments are: 1) In Table 1, the authors showed the smoking and alcohol history of the patients and healthy people. Since GC is a common malignant tumor of the digestive system, why not giving more information of the patients and healthy people on their dietary habit? 2) There are several grammar and typo errors that need to be corrected. For example, the sentence "The positive rates of CEA, CA199 and CA724 in

stage I, II, III and IV of gastric cancer were 89.66%, 93.10%, 98.85% and 100.00%, respectively, which were higher than those in CEA, CA199 and CA724" is somehow confusing. And in the sentence "and the expression levels of various indicators rised significantly with the increase of TNM stage", rised should be rose or raised.