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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 85211

Title: Different oncological features of colorectal cancer codon-specific KRAS mutations: Not codon 13 but codon 12 have prognostic value

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03714168
Position: Peer Reviewer
Academic degree: DVM

Professional title: Doctor

Reviewer's Country/Territory: Iran

Author's Country/Territory: South Korea

Manuscript submission date: 2023-05-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-07 04:14

Reviewer performed review: 2023-06-07 06:29

Review time: 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Thanks a lot for submission of fully detailed cohort study. All text of the manuscript need to be revised by a native English language editor. The comments are indicated in the body of manuscript. So, the changes may be shown track-changed and/or Highlighted.

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Title: Different oncological features of colorectal cancer codon-specific KRAS mutations: Not codon 13 but codon 12 have prognostic value

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04723746
Position: Peer Reviewer
Academic degree: MD

Professional title: Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2023-05-20

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-09 07:36

Reviewer performed review: 2023-06-13 12:06

Review time: 4 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This article examines the relationship between KRAS mutations in colorectal cancer (CRC) and patient prognosis. A large cohort was used and KRAS codon 12 mutations were found to be associated with a poorer prognosis, while codon 13 mutations were not significantly associated with pathological features or recurrence. However, the study has a number of limitations, including selectivity bias and missing data, which need to be noted. Weaknesses: The study did not consider the impact of BRAF mutations on CRC prognosis, which is a key biomarker. The study was a single-centre, retrospective study with selectivity bias. Since KRAS mutations were assessed using postoperative specimens, there may be bias.

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Title: Different oncological features of colorectal cancer codon-specific KRAS mutations: Not codon 13 but codon 12 have prognostic value

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03664208
Position: Peer Reviewer
Academic degree: BCPS

Professional title: MHSc

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2023-05-20

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-12 11:25

Reviewer performed review: 2023-06-21 01:33

Review time: 8 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

About 40% of colorectal cancer patients are associated with the mutation of the oncogene KRAS. In this study, the clinical and pathological characteristics of the single codon 12, 13 and 61 of the mutant KRAS gene in 2203 clinical cases of colorectal cancer from Ⅰ to Ⅲ were statistically analyzed. The results showed that KRAS codon 12 mutation was significantly associated with the pathological features closely related to tumor recurrence. Unlike codon 12, KRAS codon 13 mutation had little effect on the pathological features and recurrence. With large sample size, proper research methods and clear logic, this study provides theoretical basis for prognostic biomarkers of colorectal cancer patients, and has certain clinical significance. However, in view of the shortcomings of this study, the following questions are suggested: 1. The title of most SCI papers uses declarative sentences to summarize and represent the main research content of the paper, especially research papers. For papers with definite conclusions obtained through experimental research, it is suggested that the title should not be used as a question, but directly use a clear and explicit statement as the title, which can more accurately reflect the research content of the paper. 2. Abstract is an important part for

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readers to understand the research accurately and quickly, and also make the article fuller. The background of this research abstract is too short, so it is suggested to supplement it. 3. The proportion of relevant references in the past three to five years is too small, so it is recommended to cite newer references. 4. In case statistics, the reasons for excluding patients with stage IV colorectal cancer are suggested in the front instead of in the discussion section. 5. The data collection part of materials method, KRAS mutation result diagram and MSI state result diagram analysis manuscript are missing.