

## PEER-REVIEW REPORT

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

**Manuscript NO:** 79893

**Title:** Diagnostic accuracy of the multi-target stool DNA test in detecting colorectal cancer: A hospital-based study

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

**Peer-review model:** Single blind

**Reviewer's code:** 05772567

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-09-17

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-25 14:17

**Reviewer performed review:** 2022-10-06 05:45

**Review time:** 10 Days and 15 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 Grade E: Do not publish
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

	<input type="checkbox"/> [J31] Yes <input type="checkbox"/> [J30] No Does this manuscript use reliable research methods? <input type="checkbox"/> [J41] Yes <input type="checkbox"/> [J40] No Are the manuscript-accompanying data and figures authentic? <input type="checkbox"/> [J51] Yes <input type="checkbox"/> [J50] No Does this manuscript make scientifically significant conclusions? <input type="checkbox"/> [J61] Yes <input type="checkbox"/> [J60] No
<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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" 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 manuscript entitled "Diagnostic accuracy of the multi-target stool DNA test in detecting colorectal cancer: A hospital-based study" examined the stool DNA in CRC and may be a noninvasive biomarker for clinical diagnosis of CRC. The results are interesting and potential important. Maybe the following questions need to be considered: 1. Whether the multi-target stool DNA test increases the economic burden on the population compared to colonoscopy. 2. Is this test appropriate for colorectal cancer screening in large populations or is it appropriate for screening only a subset of people, such as those with a history of adenoma. 3. Whether multi-target stool DNA test combination with fecal occult blood test can help improve the sensitivity and specificity. 4. Perhaps a multicenter study is needed.

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**Reviewer's code:** 00050232

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Assistant Professor, Chief Doctor, Head, Postdoc

**Reviewer's Country/Territory:** Brazil

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-09-17

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2022-11-07 16:36

**Reviewer performed review:** 2022-11-16 18:20

**Review time:** 9 Days and 1 Hour

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
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation?

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<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> [Y] Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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<b>Re-review</b>	<input checked="" type="checkbox"/> [Y] Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> [Y] Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> [Y] No

## SPECIFIC COMMENTS TO AUTHORS

The study of the accuracy of colorectal cancer detection tests. It should be carried out in trials with a representative sample and multicenter, as well as contemplating the diversity of the population. The study carried out presents a small casuistry, carried out in a diverse population and showed a decrease in sensitivity when compared to other studies, showing that adding carcinoembryonic antigen (CEA) to the multi target stool DNA, increased the sensitivity for detecting adenoma. Faced with the controversies of colorectal cancer markers, including doubts regarding the sensitivity of colonoscopy as a marker, recently published. Studies in this area have increased in importance. I understand that, although not fulfilling an important publication criterion, the sample size, it should be published due to the contributions regarding the sensitivity of the test.