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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75922

Title: Role of one-step nucleic acid amplification in colorectal cancer lymph node metastases detection: A minireview

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05198253
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Academic Research, Chief Doctor, Research Scientist
Reviewer's Country/Territory: China
Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26
Reviewer chosen by: AI Technique
Reviewer accepted review: 2022-03-05 09:22
Reviewer performed review: 2022-03-16 13:04
Review time: 11 Days and 3 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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

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Peer-reviewer statements	Peer-Review: [ ] Anonymous [Y] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Good work. Well done! 1.The layout of the article could be further enhanced. 2.The tables in the article need further sprucing up. 3.It would be great to add an artwork to summarise the technique 4.The content should be reduced.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05774529
Position: Editorial Board
Academic degree: FASCRS, MD, PhD
Professional title: Deputy Director
Reviewer's Country/Territory: China
Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-12 02:36

Reviewer performed review: 2022-04-14 12:55

Review time: 2 Days and 10 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This topic is interesting. The authors systematically describe the role of one-step nucleic acid amplification (OSNA) in colorectal cancer lymph node metastases detection. This minireview plays an important guiding role in clinical practice, especially in accurate assessment of the stage. However, the literatures are all from developed countries, and the price of this technology exceeds that of conventional technology, and the feasibility in developing countries needs to be discussed.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05469117

Position: Editorial Board

Academic degree: PhD

Professional title: Adjunct Professor, Chief Physician, Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-16 14:42

Reviewer performed review: 2022-04-16 18:29

Review time: 3 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Thank you for inviting me to evaluate the minireview titled"State of the art on the role of one-step nucleic acid amplification (OSNA) in colorectal cancer lymph node metastases detection: A Minireview". It is an interesting paper, their findings suggest that OSNA assay has a high diagnostic accuracy and negative predictive value in detecting metastatic LNs in colorectal malignancy. The short turnaround time renders OSNA an attractive intra-operative method. OSNA resulted in upstaging in about 25% of stage II colorectal cancer. Moreover, organ sparing surgery in early colorectal cancer and tailored lymphadenectomy in more advanced cases can be performed. The paper is well arranged and the logic is clear, and. The cited literature is comprehensive . The provided figure and tables are well composed and understandable. The quality of language of the manuscript is acceptable for me. So, I recommend to you that this manuscript may be accepted. There are some advices for author: 1)On page 14, "Several studies identified prognostic genes that may select high-risk patients for adjuvant treatment[105-110]. But none of these marker panels have made it into clinical practice so far.", the significance of MSI-H needs to be discussed. 2) On page 15, "The expression of CK-19 mRNA was observed in all pathologically positive lymph nodes; however, CEA and CK-20 mRNAs were not found in metastatic nodes"? Could you tell us why?

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Title: Role of one-step nucleic acid amplification in colorectal cancer lymph node metastases detection: A minireview

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05775860
Position: Editorial Board
Academic degree: PhD
Professional title: Assistant Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-12 14:24

Reviewer performed review: 2022-04-19 00:19

Review time: 6 Days and 9 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "State of the art on the role of one-step nucleic acid amplification (OSNA) in colorectal cancer lymph node metastases detection: A Minireview" reports a review on the role of OSNA in detecting metastasis of CRC. The authors have summarized a lot of works in the relevant fields. The writing can be improved with better formatting strategy, to present the review in a logic way.

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Manuscript NO: 75922

Title: Role of one-step nucleic acid amplification in colorectal cancer lymph node metastases detection: A minireview

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01467363
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Full Professor
Reviewer's Country/Territory: Slovenia
Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-13 17:32

Reviewer performed review: 2022-04-19 17:40

Review time: 6 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Title: accurately reflects the topic and contents of the paper. Abstract: is appropriate, not structured, 201 words. Core tip: is appropriate, 62 words. Key words: 7 key words (phrases), precisely define the content of the paper. Introduction: 277 words, the reader is acquainted with OSNA known facts. The purpose of the rewiew is also clearly stated. Methods: the methodology is explained, MEDLINE, SCOPUS, ClinicalTrials.gov and Cochrane Database were used to conduct a comprehensive computerized literature search. Review: the content is reasonably divided into chapters, with an appropriate description of the content and research findings at the present time. The authors appropriately point out the advantages, disadvantages and limitations of this method, including cost analysis. The text of the review is supplemented by 4 tables. Conclusion: 149 words, authors conclude with a clear message: “OSNA may be considered as the route to tailor-made surgery”. References: 204, references are appropriate. Conflict of interest: none declared. Opinion of the reviewer The manuscript is interesting, presents a modern diagnostic method in the treatment of patients with colorectal cancer, unfortunately it is only available in some institutions.

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Peer-review model: Single blind

Reviewer's code: 05330707

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Italy

Manuscript submission date: 2022-02-26

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-14 22:49

Reviewer performed review: 2022-04-21 01:15

Review time: 6 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
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

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors investigated the clinical impact of OSNA analysis for colorectal cancer. These findings will be of interest to surgeon as well as researchers in the field.
 I have following concerns.
 1. The authors state that surgical treatment using the OSNA method leads to organ sparing surgery. Please describe the authors' opinion on how to resect the lymph nodes, the number of lymph nodes to be resected, the identification of the lymph nodes to be resected, and whether pOSNA or cOSNA is appropriate for organ-sparing surgery.
 2. Please describe the frequency of upregulation of CK19 mRNA in lymph node metastases of colorectal cancer.
