



PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Oncology*

Manuscript NO: 76066

Title: Computer-aided clinical image analysis as predictor of sentinel lymph node positivity in cutaneous melanoma.

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05418901

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Germany

Manuscript submission date: 2022-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-22 05:04

Reviewer performed review: 2022-03-22 05:38

Review time: 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 Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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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
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SPECIFIC COMMENTS TO AUTHORS

The authors have designed a retrospective study where they have deployed a software developed by the author AM in determining its utility in determining the positive rate of SLNB. I have a few suggestions/ recommendations. Housekeeping rules: 1. Grammar needs to be edited. Perhaps use a professional app to help skim the manuscript. 2. Please number all lines to help making comments easy. Abstract: The results section need to be re-written with entire focus on significant relationships found on multivariate analysis. Univariate analysis in such a study do not hold any significance. It will help to generate the interest of the reader in the entire manuscript. Introduction: Utilization of SLNB in real world must be briefly discussed. Please review and add following manuscript PMID: 34109633 Results: I need clarification on this- The subtypes of melanoma were determined on dermoscopy and pictures or on the software imaging? Conclusion: I think that univariate results should be mentioned separately from those that were significant on multivariate analysis. The way the conclusion is written currently is misleading. Only eccentricity seems to be significant parameter in predicting SLNB positivity. It will be nice to add some figures of what kind of picture or output was visualized on the software. It will help understand the relevance of this manuscript to the reader.



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Peer-review model: Single blind

Reviewer's code: 05758354

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Germany

Manuscript submission date: 2022-02-28

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-04-27 03:14

Reviewer performed review: 2022-04-27 09:23

Review time: 6 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
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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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
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SPECIFIC COMMENTS TO AUTHORS

The authors did a fascinating investigation to predict SLN+ positivity in melanoma by computer-aided image analysis. Previously, they extracted geometrical and color parameters based on this method. Although the data are limited, the results may provide a meaningful reference for image-based clinical disease diagnosis. This is a good paper, so I recommend acceptance following minor revisions. 1. Please briefly introduce the image processing algorithm used in this paper. Maybe a flow chart to show this algorithm would be ok. 2. Please show the real pictures of the lesions before and after image processing, which contribute to the results of these variables. 3. To improve this work, what does your team plan to study in the future? 4. Do you think combining physician experience (or traditional methods) and image processing to predict SLN+ positivity is a better research method?



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Clinical Oncology*

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05758354

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Germany

Manuscript submission date: 2022-02-28

Reviewer chosen by: Li-Li Wang

Reviewer accepted review: 2022-06-27 16:50

Reviewer performed review: 2022-06-27 16:55

Review time: 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I recommend acceptance.