

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 71466

Title: Diagnostic value of artificial intelligence automatic detection systems for breast BI-RADS 4 nodules

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06075078

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2021-09-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-09-20 00:32

Reviewer performed review: 2021-10-09 15:02

Review time: 19 Days and 14 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish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

**Peer-reviewer
statements**Peer-Review: ☒ Anonymous ☐ OnymousConflicts-of-Interest: ☐ Yes ☒ No**SPECIFIC COMMENTS TO AUTHORS**

The incidence rate of breast cancer has exceeded that of lung cancer and that it has become type of cancer with the greatest number of malignant tumors worldwide. The malignancy risk of breast imaging reporting and data system class 4 nodules covers a wide range, clinical decision-making is challenging, and further puncture biopsy or surgical treatment is often required. The study explored whether an artificial intelligence automatic detection system is helpful for distinguishing benign and malignant breast imaging reporting and data system class 4 breast nodules to reduce the likelihood of biopsy. The study is well designed. The methods are described in detail, and the results are very interesting. After a minor revision, this study can be accepted for publication. (1) The manuscript should be edited, both for the language and format. (2) A short background should be added to the abstract. (3) The method, and results section in the abstract are too long, please short them. (4) The conclusion is missing in the main text, please check and add it. (5) Please replace the Chinese words in the figures.

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Reviewer's code: 06074980

Position: Peer Reviewer

Academic degree: PhD

Professional title: Doctor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-09-14

Reviewer chosen by: AI Technique

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Reviewer performed review: 2021-10-09 15:47

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Peer-reviewer statements	Peer-Review: [☒] Anonymous [☐] Onymous Conflicts-of-Interest: [☐] Yes [☒] No
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SPECIFIC COMMENTS TO AUTHORS

This is an interesting study about the diagnostic value of artificial intelligence automatic detection systems for breast cancer. This study is well display. A minor editing is required to the manuscript. Please short the abstract, and update the images.