# PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 73439

**Title:** Correlation of Magnetic Resonance Imaging Quantitative Parameters and Apparent Diffusion Coefficient Value with Pathological Breast Cancer

**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:** 2022-04-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-10 11:54

**Reviewer performed review:** 2022-04-18 11:55

**Review time:** 8 Days

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quality | [  ] Grade A: Excellent    [ Y] Grade B: Very good    [  ] Grade C: Good [  ] Grade D: Fair    [  ] Grade E: Do not publish |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

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

## SPECIFIC COMMENTS TO AUTHORS

In this retrospective study, 108 patients with breast cancer and 110 patients with benign breast tumors was included. They investigated the relationship between quantitative magnetic resonance imaging parameters, apparent diffusion coefficient value, pathological immunohistochemical status, and patient prognosis: MRI quantitative parameters and ADC are related to the expression of breast cancer-related immunological receptor factors and have certain clinical value in assessing postoperative recurrence in patients. I have no objections as far as methods are concern. This topic is actual and well described. The manuscript is well written and very interesting, and authors presented also the limitations of the study.

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**Reviewer's code:** 06074986

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

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## SPECIFIC COMMENTS TO AUTHORS

Due to research limitations, the current MRI experiments of breast diseases mainly focus on semi-quantitative parameters. In this study, quantitative MRI parameters and ADC values of different prognostic factors in patients with breast cancer or benign breast tumors confirmed by pathological examination were compared, and the MRI quantitative parameters and ADC values of patients with different expressions of ER, PR, and HER-2 were statistically analyzed. The relationship between the quantitative parameters of MRI and ADC values and the recurrence of patients was analyzed using the ROC curve, with the aim of providing a reference for clinical diagnosis and treatment. The article provides an essential reference for researchers in this field and the results are interesting and could be useful for other studies. I recommend that the manuscript can be published.