

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 71757

Title: Whole Lesion Histogram Analysis of Apparent Diffusion Coefficient Predicts Therapy Response in Locally Advanced Rectal Cancer.

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05486540

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Indonesia

Author's Country/Territory: Mexico

Manuscript submission date: 2021-09-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-09-23 17:39

Reviewer performed review: 2021-10-09 02:42

Review time: 15 Days and 9 Hours

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 Grade E: Do not publish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 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Title : The main idea of using volumetric ADC and Histogram analysis is not clearly stated on the title
 Abstract : The words exceeds of 250 words . please add the conclusion
 Introduction : The main idea is clearly described
 Methods : Detail but some unnecessary information mentioned , resulted in too long paragraphs to methods section
 Results/ Discussion : Too many and complicated tables , make the results is difficult to be followed
 The result is weak seen only few patients (18 patients / 36%) achieved a histopathologic complete response.
 It's still questionable for the larger percentage of pts who did not have the comparable histopathologic proven result
 The variety of pts tumor staging might interfere the results of the nonresponden group

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Peer-review model: Single blind

Reviewer's code: 05180942

Position: Editorial Board

Academic degree: MD, MSc

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: Mexico

Manuscript submission date: 2021-09-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-07 18:26

Reviewer performed review: 2021-10-10 20:04

Review time: 3 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
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 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

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

1. There is no information about Radiomics in the material and method. 2. It is necessary to simplify the results. 3. I couldn't understand why the word in the title "Radiomics" was only used twice in the text. 4. I don't think A2 and B2 in Figure 2 are really demonstrative. Why was the hypointense area between 5-8 o'clock included in figure A2? Figure B2 includes hyperintense focus for a reason.

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Peer-review model: Single blind

Reviewer's code: 05540553

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Mexico

Manuscript submission date: 2021-09-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-08 10:06

Reviewer performed review: 2021-10-20 16:31

Review time: 12 Days and 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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ADC histogram has the potential ability to show tumor heterogeneity. This study analyzes and evaluates its prediction ability in rectal cancer, which has certain clinical significance. I think the subject is relatively relevant and appropriate. The study have shown that ADC histogram analysis is a valuable method to distinguish the treatment response of LARC. Further research is needed to determine its clinical application