

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA **Telephone:** +1-925-399-1568 **E-mail:** bpgoffice@wjgnet.com https://www.wjgnet.com

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Oncology

Manuscript NO: 80160

Title: Efficacy of Texture Analysis of Pre-operative MRI in Predicting Microvascular

Invasion in Hepatocellular Carcinoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05569437 Position: Editorial Board Academic degree: MD, PhD

Professional title: Adjunct Professor, Attending Doctor, Postdoctoral Fellow, Surgical

Oncologist

Reviewer's Country/Territory: Italy

Author's Country/Territory: Singapore

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-29 16:38

Reviewer performed review: 2022-10-09 09:58

Review time: 9 Days and 17 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Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish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



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

SPECIFIC COMMENTS TO AUTHORS

In this interesting manuscript, the authors analyzed 50 patients who underwent hepatectomy for HCC, investigated clinical and radiological MRI differences between patients with and without microvascular invasion (MVI, postoperatively assessed at histologic examination of the resected specimen), and, using a software for evaluation of radiomics texture parameters, performed different methods for MR detection of Tumor Texture analysis, either qualitatative or quantitative, is gaining interest as a novel approach to preoperatively detect tumor characteristics that may impact on the choice of the most correct patient management. The manuscript is overall well written, however I have some comments: 1. Concerning the abstract, I would specify that the texture analysis is both qualitative (performed by radiologists) and quantitative 2. In the introduction: "Recent studies have sought to use (performed by a software). TA to predict MVI on [please delete: "both"] MRI and have identified certain imaging and textural features (such as tumour entropy) that may be associated with bad tumour behaviour [14,15]." 3. Concerning exclusion criteria: What about the presence of macro-vascular invasion at preoperative imaging? I believe it should be an exclusion RESULTS: the sentence "The criteria. 4.Chapter pre-operative y-glutamyltranspeptidase (GGT; p=<0.01) was found to be statistically significant between the two groups." Should be changed with "we found a statistically significant difference of the pre-operative serum γ -glutamyltranspeptidase (GGT; p=<0.01) level 5. Similar in the following sentence: what is statistically between the two groups." significant is the difference in rates of imaging fetarures between the two study groups,



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not the imaging features in se. 6.Figure 3 and related figure description do not add to the manuscript, pleas improve (for example showing all the qualitatively detectable images characteristics assessed in the current study and describing them in the description) or delete. 7. In tables 1 and 2 the % values should be recalculated. For example, Gender Male, n (%) 43 (86) 12 (12/15=80%) 31 (31/35=88%) This will allow a better comparison between incidences in the two groups and an easier assessment of differences between groups. 8. the authors should highlight the low number of study patients, which may account for the the lack of statistically significant differences among two study groups in terms of both clinical and radiological characgtersites between two study groups. 9. I would add the column "TOTAL" in table 2, similar to table 1.



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Reviewer's code: 05759338 Position: Editorial Board Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Thailand

Author's Country/Territory: Singapore

Manuscript submission date: 2022-09-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-26 08:43

Reviewer performed review: 2022-10-09 22:07

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Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] 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



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Peer-reviewer

Peer-Review: [Y] Anonymous [] Onymous

statements

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

SPECIFIC COMMENTS TO AUTHORS

Congratulations to this good work. The authors show an organized concept and comprehensive modern knowledge.