

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75878

Title: Differential diagnosis of different types of solid focal liver lesions using two-dimensional shear wave elastography

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03537202

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Adjunct Professor, Doctor, Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-04-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-02 07:54

Reviewer performed review: 2022-05-02 08:45

Review time: 1 Hour

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Language quality	<input type="radio"/> Grade A: Priority publishing <input checked="" type="radio"/> Grade B: Minor language polishing <input type="radio"/> Grade C: A great deal of language polishing <input type="radio"/> Grade D: Rejection
Conclusion	<input type="radio"/> Accept (High priority) <input type="radio"/> Accept (General priority) <input checked="" type="radio"/> Minor revision <input type="radio"/> Major revision <input type="radio"/> Rejection
Re-review	<input checked="" type="radio"/> Yes <input type="radio"/> No

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

Authors reported an original article to explore the value of two-dimensional shear wave elastography (2D-SWE) using maximal elasticity (Emax) in the differential diagnosis of focal liver lesions (FLLs), especially among different pathological types of malignant FLLs. STATUS: ACCETTABLE FOR PUBBLICATION PENDING MINOR REVISIONS

General considerations: This is an original contribution article. The work is interesting and the paper is very well-written. The statistical analysis is good. It is not the only study about this topic, however the results obtained are valid and supported by a remarkable research methodology. I believe that this approach to the evaluation of FLLs must be pursued with further studies in this sense. Abstract: the abstract appropriately summarize the manuscript without discrepancies between the abstract and the remainder of the manuscript. Keywords: adequate. Tables: The tables are well made and summarized. Reference: adequate. Paper On some aspects, the authors should address: 1) Among non-invasive modalities for the evaluation of FLLs, you haven't discussed enough about contrast-enhanced ultrasound (CEUS). Please, do it considering the following articles, which you must cite in the reference: -Diagnostic Performance and Confidence of Contrast-Enhanced Ultrasound in the Differential Diagnosis of Cystic and Cysticlike Liver Lesions. AJR Am J Roentgenol 2017;209(3):W119-W127. doi: 10.2214/AJR.16.17062. Epub 2017 Jun 22. -Contrast-enhanced ultrasound in the characterization of complex cystic focal liver lesions. Ultrasound Med Biol 2015;41(5):1301-10. doi: 10.1016/j.ultrasmedbio.2014.12.667. Epub 2015 Feb 7. 2) I have found only one figure. You must add others. 3) A comparison of the findings with the CEUS would be interesting. Even if it has not been

carried out, at least some cases also evaluated with CEUS could be shown in the figures.

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Reviewer's code: 05531699

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-04-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-13 12:18

Reviewer performed review: 2022-06-18 12:57

Review time: 5 Days

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 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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" 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 explored the value of 2D-SWE using Emax in the differential diagnosis of FLLs. They suggest that malignant FLLs were stiffer than benign ones and liver metastases were stiffer than primary liver carcinomas, proposing that 2D-SEW with Emax may be a useful complement to conventional ultrasound for the differential diagnosis of FLLs. the results are sound and the paper is overall well presented. I don't have any specific comment, although I feel that the results can be of interest for a minor niche of researchers.