

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 80621

Title: The role of advanced imaging techniques in the evaluation of oncological therapies in patients with colorectal liver metastases

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02968018

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: Italy

Manuscript submission date: 2022-10-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-06 16:12

Reviewer performed review: 2022-10-09 16:55

Review time: 3 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 Grade E: Do not publish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 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: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous
	Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No

SPECIFIC COMMENTS TO AUTHORS

1. The title can be modified The role of advanced imaging techniques in the evaluation of oncological therapies in patients with colorectal liver metastases 2.The authors present an interesting revision of clinical interest. The subject falls within the scope of the journal. Some concerns should be addressed before considering the publication of this study. Some suggestions were made and were drawn in yellow in attach file. 3. Expand the topic PA BASED ON RADIOMICS The texture features were gray-level co-occurrence matrix (GLCM) and gray-level run length (GLRL). Some features were extracted after a pre-processing with a Wavelet's transform. The supervised classification was achieved with machine learning (ML) approaches: support vector machine (SVM), k-nearest neighbors (kNN), and Random Forest. Texture analysis (TA) is described as techniques that enable to quantify the variations in pixel intensity including some imperceptible to the human visual system. TA includes the quantification of the gray-level patterns, pixel interrelationships, and the spectral properties of an image. Include the following references in the paper: Alves AFF, et al. Inflammatory lesions and brain tumors: is it possible to differentiate them based on texture features in magnetic resonance imaging? J Venom Anim Toxins Incl Trop Dis. 2020 Sep 4;26:e20200011. Kassner A, Thornhill RE. Texture analysis: A review of neurologic MR imaging applications. Am J Neuroradiol. 2010;31(5):809-816. 4. Include the topic: Spectroscopy (including the following references) Ljungberg M, et al.. 31P MR spectroscopy to evaluate the efficacy of hepatic artery embolization in the treatment of neuroendocrine liver metastases. Acta Radiol. 2012 Dec 1;53(10):1118-26. ter Voert EG, et al. In vivo magnetic resonance spectroscopy of liver tumors and metastases.



**Baishideng
Publishing
Group**

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

World J Gastroenterol. 2011 Dec 21;17(47):5133-49. This reference is mentioned, but the authors should include a topic discussing spectroscopy Uutela A, et al. RAXO Study Group. Treatment response of colorectal cancer liver metastases to neoadjuvant or conversion therapy: a prospective multicentre follow-up study using MRI, diffusion-weighted imaging and ¹H-MR spectroscopy compared with histology (subgroup in the RAXO trial). ESMO Open. 2021 Aug;6(4):100208.

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Reviewer's code: 05764344

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Italy

Manuscript submission date: 2022-10-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-17 18:36

Reviewer performed review: 2022-10-20 21:01

Review time: 3 Days and 2 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
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SPECIFIC COMMENTS TO AUTHORS

kindly add the numbers of references immediately after the names of authors, not at the end of paragraphs.....apply that to the whole manuscript.