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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 87207

Title: Liver metastases: The role of magnetic resonance imaging

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07301832
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-07-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-31 07:26

Reviewer performed review: 2023-08-03 07:13

Review time: 2 Days and 23 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This review primarily focuses on the magnetic resonance imaging (MRI) features of liver metastases, aiming to summarize the common imaging characteristics of this condition with a special emphasis on both typical and atypical appearances. This review is a well-written article. The article systematically presents a comprehensive analysis of the role of magnetic resonance imaging (MRI) in detecting and characterizing liver metastases. The authors exhibit a clear understanding of the subject matter, and their synthesis of existing literature is both thorough and insightful. The review demonstrates a meticulous selection of relevant studies and effectively highlights key advancements in MRI techniques for liver metastasis assessment. The article's structure is coherent, with a well-organized presentation of different aspects. Overall, this MRI review on liver metastases exhibits a commendable level of academic rigor, well-structured content, and insightful analysis, thus contributing to the current body of knowledge in the field. Limitations of the Study and its Findings: Lack of focus on emerging MRI technologies or techniques that might impact the field. Such as readout-segmented echo-planar imaging in diffusion-weighted imaging (Xie S, Masokano IB, Liu W, Long X, Li G, Pei Y,

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Li W. Comparing the clinical utility of single-shot echo-planar imaging and readout-segmented echo-planar imaging in diffusion-weighted imaging of the liver at 3 tesla. Eur J Radiol. 2021 Feb;135:109472. doi: 10.1016/j.ejrad.2020.109472. Epub 2020 Dec 10. PMID: 33370640.). Minor problem: Please reviewed the formatting of the references, such as Ref. [5] . Future Directions of the Topic: Investigating the integration of artificial intelligence or machine learning in improving MRI-based diagnosis of liver metastases. Exploring the potential of functional MRI techniques in assessing treatment response and prognosis. Unresolved Questions/Issues: The optimal imaging protocol for differentiating various types of liver metastases. How to enhance the sensitivity and specificity of MRI in detecting small or subtle metastatic lesions. Questions for Future Research by the Authors: Can the identified MRI features serve as prognostic indicators for different types of liver metastases? Potential Impact on Basic Science and Clinical Practice: Basic Science: The review may prompt researchers to delve deeper into understanding the underlying biological mechanisms behind the observed MRI features of liver metastases. Clinical Practice: The review could lead to refined clinical practice for the use of MRI in liver metastasis assessment, potentially enhancing accuracy and patient outcomes.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

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Reviewer's code: 03299110
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Associate Professor, Director, Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-30 09:04

Reviewer performed review: 2023-08-12 14:24

Review time: 13 Days and 5 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] 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

There is a place in the atypical appearance of liver metastases, for example fat-containing liver metastases; the article mentioned that fat in liver metastases can be divided into three conditions, but the authors only wrote two kinds here, ① the macroscopic fat in liposarcoma ② the focal intracellular fat of kidney cancer, did not say the third kind.