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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75723

Title: Role of gadoxetic acid-enhanced liver magnetic resonance imaging in the evaluation of hepatocellular carcinoma after locoregional treatment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06243056
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2022-02-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-28 07:32

Reviewer performed review: 2022-03-11 14:51

Review time: 11 Days and 7 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[Y] Yes [ ] No

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

SPECIFIC COMMENTS TO AUTHORS

This review comprehensively explains the MRI findings of hepatocellular carcinoma after different locoregional treatment methods , especially focusing on the manifestations of gadoxetate disodium (Gd-EOB-DTPA), and puts forward the imaging characteristics of different methods, which has great clinical significance. But there is a small problem, the title and content of the article mainly focus on the gadoxetate disodium (Gd-EOB-DTPA), so it should be emphasised in the conclusion part .

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Title: Role of gadoxetic acid-enhanced liver magnetic resonance imaging in the evaluation of hepatocellular carcinoma after locoregional treatment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05140646
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

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Review time: 12 Days and 1 Hour

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
Re-review	[ ] Yes [Y] No

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

SPECIFIC COMMENTS TO AUTHORS

In this review, the authors provide a summary of the usefulness of gadoxetic acid-enhanced liver MRI findings in patients who underwent loco-regional treatments for HCC, with a special focus on ablative therapies (radiofrequency, microwaves, and cryoablation), trans-arterial chemoembolization (TACE) and trans-arterial radio-embolization (TARE) techniques and stereotactic ablative radiotherapy (SABR). General Comments: 1. Compared with CT, PET-CT or other imaging methods, how accurate is MR in the early detection of HCC recurrence? Is MR more advantageous than other imaging methods in evaluating of hepatocellular carcinoma after locoregional treatment? 2. It is lacked of the illestration of the limitations of MR in the evaluation of hepatocellular carcinoma after locoregional treatment. 3. In this review, more than 50% of the references are published 5-10 years ago, or even 20 years ago. It is need to add more recently research articles. 4. The review only briefly introduced the common sense content such as the application of ablative therapies, TACE, TARE, and SABR, or the classic finding of MR after loco-regional treatments with HCC. There is lack of summarization of the forefront of progress in this field