

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 70902

Title: Efficacy and safety of computed tomography-guided microwave ablation with fine needle-assisted puncture positioning technique for hepatocellular carcinoma

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05088185

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor, Chief Doctor, Director, Vice Editor-in-Chief

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2022-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-15 15:11

Reviewer performed review: 2022-03-15 15:26

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

The manuscript describes a useful technique during liver tumor ablation, used to mark a target under US guidance, akin to fiducial placement for SBRT. In challenging locations such as near diaphragm, this technique can help. However, I do not believe you could draw many conclusions from a comparative study, as ablation probe placement skill is largely operator dependent, location and lesion size play a major role. Ability to paralyze the patient under general anesthesia during lesion's targeting and most importantly the use of CT-fluoroscopy are not addressed by the manuscript.

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

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: 2022-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-14 14:16

Reviewer performed review: 2022-03-19 10:04

Review time: 4 Days and 19 Hours

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 checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This is a well-conducted and well-reported retrospective study comparing FNP technique and conventional puncture technique in CT-guided MWA. In my opinion results are interesting and deserve publication. One general comment: the Introduction and the Discussion can be seen as too long. can the Authors reconsider their lenght, and maybe shorten these sections a bit? very minor: reference #1, is it correct to cite an Erratum?

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02579144

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2022-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-17 11:09

Reviewer performed review: 2022-03-22 04:07

Review time: 4 Days and 16 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No
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SPECIFIC COMMENTS TO AUTHORS

To the authors: “Efficacy and safety of CT-guided microwave ablation with fine needle assisted puncture positioning technique for hepatocellular carcinoma” My comments are as follows. 1. Please show the rationale for setting the cut-off value of AFP to 400 ng/mL. 2. I think the CT image is upside down in Figure 3. 3. How about the analysis of overall survival between two groups? 4. You mentioned “the FNP technique used in CT-guided MWA in the current study may improve outcomes in terms of LTP, RFS and procedure-related complications for HCC, and FNP technique was independently associated with good LTP and RFS”. Can you say the same result in radiofrequency ablation for HCC? Please explain your opinion. I hope that my comments will be useful in improving the article.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 70902

Title: Efficacy and safety of computed tomography-guided microwave ablation with fine needle-assisted puncture positioning technique for hepatocellular carcinoma

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02579144

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2022-03-14

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2022-05-14 14:50

Reviewer performed review: 2022-05-30 00:53

Review time: 15 Days and 10 Hours

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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript has been revised well.