



**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 59346

**Title:** Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance

**Reviewer’s code:** 02551224

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Surgeon

**Reviewer’s Country/Territory:** Italy

**Author’s Country/Territory:** China

**Manuscript submission date:** 2020-09-20

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-11-15 07:06

**Reviewer performed review:** 2020-11-15 08:17

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript entitled "Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance", by Xuesong Yao et al, is an interesting report of short term results of radiofrequency ablation (RFA) under Cone-Beam CT (CBCT) for treatment of hepatocellular carcinoma. The article is well written in English, as certified by the editing certificate of the AJE, and provides good overall results for this modified treatment modality. Anyway, on my opinion, it should be better specified which criteria have been used to choose this technique instead of surgical resection, and better detailed the adjunctive treatment modalities used for patients with partial response. If corrected accordingly, on my opinion the paper deserves publication.



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**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 59346

**Title:** Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance

**Reviewer's code:** 00188507

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor, Full Professor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-09-20

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-11-16 11:47

**Reviewer performed review:** 2020-11-16 11:52

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input checked="" type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

The author summarized the potential usefulness of CBCT for the RFA for HCC. However, the essential problem of the study is the unclear superiority of CBCT compared to US with no irradiation. In addition, the recent advancement of the US and navigation systems combining the CT and MR images with US allowed the detailed assessment of therapeutic efficacy and planning. Based on these concerns, the study will not provide the novel findings to the reader of this journal and therefore, it is difficult to be further considered.



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**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 59346

**Title:** Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance

**Reviewer's code:** 00227375

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-09-20

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-11-15 03:38

**Reviewer performed review:** 2020-11-17 11:31

**Review time:** 2 Days and 7 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

This is an interesting manuscript about short-term outcomes of radiofrequency ablation (RFA) for hepatocellular carcinoma using cone-beam computed tomography (CBCT). The authors have compared the planning estimation using CBCT with RFA treatment outcomes. In addition, the authors have examined predictors of overall survival (OS) and progression free survival (PFS). Forty-eight patients were followed up for 25.6 months. Treatment response was categorized as complete response (CR), partial response (PR), stable disease (SD) or progressive disease (PD). The data have demonstrated that the post-RFA initial clinical assessment is strongly correlated with the planning estimation before treatment. Female sex and tumor size <2cm were statistically significant factors for OS on univariate Cox regression analysis. Age and post-RFA mRECIST were independent predictors of PFS. This manuscript is nicely structured and well written. I have no question about this manuscript.



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**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 59346

**Title:** Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance

**Reviewer's code:** 00053659

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Surgeon

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-09-20

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-11-20 12:37

**Reviewer performed review:** 2020-11-20 16:40

**Review time:** 4 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Yao et al. reported a retrospective study showing short-term outcomes after RFA for HCC using cone-beam computed tomography (CBCT). They satisfied the clinical outcome of their strategy, which did not compare to the other strategy. The major concerns are the lack of clinical data that made it difficult to understand. Etiology of the HCC, physical data, nutritional conditions, functional indicators, platelet counts, fibrotic indicators, and oncological markers should include the analysis. Also, the indication of this strategy should be presented. I also cannot entirely agree with the conclusion, which was good results. The study's response rate was only 35%, which indicated the strategy was not acceptable to manage the HCC.



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**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 59346

**Title:** Short-Term Outcomes of Radiofrequency Ablation for Hepatocellular Carcinoma Using Cone-Beam CT for Planning and Image Guidance

**Reviewer's code:** 04091933

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Senior Researcher

**Reviewer's Country/Territory:** Russia

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-09-20

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-11-16 08:44

**Reviewer performed review:** 2020-11-24 15:45

**Review time:** 8 Days and 7 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript submitted by the authors is relevant as it reports the results of a study to assess the treatment response to RFA for HCC using cone-beam computed tomography. Materials and methods are consistent with the aims of the study and meet a high scientific level. The manuscript is well structured with well-prepared tables and illustrations. The high proportion of patients with post-RFA disease progression, which could be caused by the predominance of larger tumors ( $\geq 3$  cm in 62.5% patients), does not affect the effectiveness of the method. The authors' conclusions/recommendations on well-targeted needle insertion with an adequate ablation technique, precise planning using CBCT and pre-operative diagnostic CT / MR in conjunction with real-time image guidance, and an immediate CBCT assessment following treatment for better management of patients are of high clinical importance. The manuscript can be published.