

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Oncology

**Manuscript NO:** 60179

**Title:** Influence of heat irrigating effect of radiofrequency ablation on regional liver tissue

**Reviewer's code:** 02945486

**Position:** Peer Reviewer

**Academic degree:** FIAC, MD, PhD

**Professional title:** Professor, Research Scientist

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

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

**Manuscript submission date:** 2020-10-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-10-27 09:55

**Reviewer performed review:** 2020-11-10 10:31

**Review time:** 14 Days

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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 checked="" 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

## **SPECIFIC COMMENTS TO AUTHORS**

In this manuscript, 8 Bama miniature pigs were randomly divided into group A and group B (with 4/group). RFA electrode needles were implanted near the hepatic segment vascular (3–5 mm far from the hepatic segment portal venous) under the guidance of ultrasound for group A. Similarly, an RFA electrode needle was implanted far from the hepatic segment vascular (8–10 mm far from the hepatic segment portal venous) for group B. The pigs were sacrificed and the livers were removed immediately after radiofrequency ablation at the eighth day. Then authors found differences in the Suzuki score of the liver tissue surrounding the ablation portal vein, and its distal area between Groups A and B, was statistically significant. They concluded that changes of thermal damage occur in the liver tissue around the ablation portal vein and its distal area because of heat irrigating effect when the radiofrequency ablation electrode tip is close to (<5 mm) the portal vein. The research is well organized. I have no objections as far as methods are concern. The studied groups are properly presented, the results are presented on 3 tables and 6 figures and are clearly discussed. The references are quite appropriate to the subject of research, but I think authors can also add some recent research. The study has important guiding significance for the radiofrequency ablation of clinical liver lesions.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Oncology

**Manuscript NO:** 60179

**Title:** Influence of heat irrigating effect of radiofrequency ablation on regional liver tissue

**Reviewer's code:** 03115435

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Fellow, Research Scientist, Senior Lecturer

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2020-10-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-11-03 00:56

**Reviewer performed review:** 2020-11-10 10:33

**Review time:** 7 Days and 9 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 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 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**

Dear authors, thank you for submitting your paper to the WJGO. Your study is a well-written, good structured recommendation for the prognosis of radiofrequency ablation of liver lesions. The recommendations are good, results of the study is of interest and have important guiding significance for the clinical use. Thank you for a useful and important synopsis of this important topic. Could you please explain the limitations of your study? In addition, the references need to be updated.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Oncology

**Manuscript NO:** 60179

**Title:** Influence of heat irrigating effect of radiofrequency ablation on regional liver tissue

**Reviewer's code:** 03035906

**Position:** Peer Reviewer

**Academic degree:** FEBG, MD, PhD

**Professional title:** Professor, Research Scientist

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

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

**Manuscript submission date:** 2020-10-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-11-03 00:56

**Reviewer performed review:** 2020-11-10 10:34

**Review time:** 7 Days and 9 Hours

<b>Scientific quality</b>	<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
<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 checked="" 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**

I have read with great interest the manuscript entitled "Influence of heat irrigating effect of radiofrequency ablation on regional liver tissue". This is a well-written, good structured recommendation for effect of RFA on the regional liver. Overall, this study was well conducted with good methodology and intelligible English. I think the term "Bama Miniature Pigs" should be added to the title of the manuscript.