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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 76499

Title: Safety and feasibility of irreversible electroporation for the pancreatic head in a porcine model

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06058922
Position: Peer Reviewer
Academic degree: MD
Professional title: Professor
Reviewer's Country/Territory: South Korea
Author's Country/Territory: China

Manuscript submission date: 2022-04-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-10 11:51

Reviewer performed review: 2022-04-23 07:06

Review time: 12 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

The risk of thermal damage is significantly reduced due to the non-thermal effect of tumor killing, and there is no thermal deposition effect that affects the effectiveness of tumor ablation. Therefore, compared with local physical ablations based on the thermal effect such as radiofrequency ablation, irreversible electroporation is more suitable for the treatment of locally advanced malignant tumors that cannot be radically resected owing to the invasion of vital vessels and thus has a good application prospect. Studies on the local and systemic effects of IRE for pancreatic head of large animals remain limited. Elucidating the short- and long-term effects of IRE on pancreatic head will be an essential step in demonstrating its safety and feasibility before further implementation in clinical patients. In this study, the authors investigated the immediate and late complications of irreversible electroporation on the pancreatic head and evaluate its safety in pancreatic head region including its effects on pancreatic ducts, vessels and adjacent gastrointestinal organs. The research is well designed, and the methods are described in detail. The figures are excellent. The reviewer recommends to accept this study after a minor editing.

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Peer-review model: Single blind

Reviewer's code: 06078925
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-10 11:51

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Review time: 12 Days and 19 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) [ ] 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

Thanks very much to inviting me reviewing this interesting study. In this study, the authors evaluated the safety of irreversible electroporation in pancreatic head region including its effects on pancreatic ducts, vessels and adjacent gastrointestinal organs. The study is very well performed, and the results are very interesting. The references are updated. The limit of the study should be also discussed. A minor editing is required.

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PEER-REVIEW REPORT

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Peer-review model: Single blind

Reviewer's code: 06078854
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

Manuscript submission date: 2022-04-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-10 11:50

Reviewer performed review: 2022-04-23 07:11

Review time: 12 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] 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) [Y] Accept (General priority) [ ] 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

This study is basic experimental research on irreversible electroporation in the pancreatic head region. The experiments are well performed. Interesting results. No specific comments.