

Dear Editors and Reviewers:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "**Safety and feasibility of irreversible electroporation for the pancreatic head in a porcine model**"(ID: 76499). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. The main corrections in the paper and the responds to the reviewer's comments are as flowing:

Responds to the reviewer's comments:

Reviewer #1:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Accept (General priority)

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.

Response: Thank you for your valuable comments. We will do our best in our following work.

Reviewer #2:

Scientific Quality: Grade B (Very good)

Language Quality: Grade A (Priority publishing)

Conclusion: Minor revision

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.

Response: Thank you for your valuable and helpful advice. We have added a paragraph to clearly state the limitations of this study and possible future areas of research in the conclusions.

Reviewer #3:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

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.

Response: Thank you for your time and constructive comments. We have sent the revised manuscript to a professional English language editing company and performed further language polishing to ensure all grammatical, syntactical, formatting and other related errors are resolved, so that the revised manuscript will meet the publication requirement. A new language certificate along with the manuscript was available.

Responds to the editorial office's comments:

(1) Science editor:

This is an interesting study of the safety and feasibility of irreversible electroporation for the pancreatic head in a porcine model. The study is very well designed and well performed. The results are very interesting. The Figures are well-arranged. The ethics was stated in the manuscript. References are updated and well discussed. A minor editing is required. I recommend to accept this manuscript after a minor editing.

Language Quality: Grade B (Minor language polishing)

Scientific Quality: Grade B (Very good)

Response: Thank you for your time and valuable comments. We have revised the manuscript according to your helpful advice and further language polishing was also performed. Hope the revised manuscript will meet the publication requirement.

(2) Company editor-in-chief:

I have reviewed the Peer-Review Report, the full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Gastrointestinal Oncology, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office ' s comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, uniform presentation should be used for figures showing the same or similar contents; for example, "Figure 1Pathological changes of atrophic gastritis after treatment. A: ...; B: ...; C: ...; D: ...; E: ...; F: ...; G: ..." . Please provide decomposable Figures (in which all components are movable and editable), organize them into a single PowerPoint file. If the picture is 'original' , the author needs to add the following copyright information to the bottom right-hand side of the picture in PowerPoint (PPT): Copyright ©The Author(s) 2022.

Response: Thank you for your time and constructive comments. We have revised the manuscript and used uniform presentation in figure legends. All figures are decomposable and all components are movable and editable. The copyright information was added to the bottom right-hand side of the picture in PowerPoint (PPT). Hope the revised manuscript will meet the publication requirement.

We would like to express our great appreciation to you and reviewers for comments on our paper. Looking forward to hearing from you.

Thank you and best regards.

Sincerely yours,

Li Yan (on behalf of all the authors)