

Dear Prof. Le Zhang, Manuscript Administration and Journal Staff:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "Irreversible electroporation for liver metastasis from pancreatic cancer: A case report"(Manuscript NO: 52231). 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. Revised portion are marked in red in the paper. The main corrections in the paper and the responds to the reviewer's comments areas flowing:

Reviewer #1:

1. Response to comment: The first sentence of the introduction section is not correct. Pancreatic cancer is not the most common malignant tumor of the digestive system. Please, correct this sentence.

Response: We are very sorry for our incorrect writing, Line 64, the statements of "Pancreatic cancer is the most common malignant tumor of the digestive system." were corrected as "Pancreatic cancer is one of the most aggressive cancers, has a poor prognosis. "

2. Response to comment: You should be added the describe of irreversible electroporation technique in the case presentation.

Response: Considering the Reviewer's suggestion, we have added "Percutaneous IRE ablation under general anesthesia, two electrodes were used during the operation, the needle tip distance was 1.0 to 2.0 cm, and the effective exposure distance of the electrodes was 1.5 to 2.0 cm. CT combined with ultrasound was used to confirm tumor size, electric field intensity 1 500 V / cm, pulse length 70  $\mu$ s, and pulse number 90. During the operation, the success of the ablation was determined based on the hyperechoic coverage and real-time impedance changes in the ablation lesion", which can be seen in the line 139-145.

3. Response to comment: It is better if in the discussion section will be add indication for irreversible electroporation.

Response: Thank you so much for the suggestion. We have discussed this part in the line . We have added one paragraph to discuss indication for irreversible electroporation. Please see the revised manuscript for the changes.

We tried our best to improve the manuscript and made some changes in the manuscript. We appreciate for Editors/Reviewers' warm work earnestly, and hope that the correction will meet with approval.

Once again, thank you very much for your comments and suggestions.

Yours sincerely,

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