

Re: 64062

Dear Professor Lian-Sheng Ma,  
Dear Professor Jin-Lei Wang,

We thank the Editor, Science Editor and the Reviewers for taking the time to evaluate our manuscript and for the suggestions and helpful comments. Enclosed are point-to-point responses to each of the comment. The reviewers' comments are in bold followed by our responses.

### **Answers to Reviewer #1 and #3**

**Reviewer #1: PDAC is a challenging malignancy with limited treatment options and poor life expectancy. During the last decade new therapeutic options arose with the advancement of minimally invasive technologies to treat PDAC patients. The authors summarize new ablative options for patients with LAPC and percutaneous liver-directed therapies for patients with liver-dominant metastatic disease, including radiofrequency ablation, microwave ablation, cryoablation and irreversible electroporation. As the author points out, the data presented that the minimally invasive ablative technologies demonstrated only modest improvement in overall survival of patients with LAPC and patients with metastatic pancreatic cancer and most of the new treatment options are in the experimental phase and only performed by large-volume centers. The results of ablative techniques still need more clinical validation.**

**Reviewer #3: Good.**

Thank you for Reviewer #1 and #3 for reviewing our manuscript and the support for publication.

### **Answers to Reviewer #2**

**stage 4 pancreatic cancer (Page 4) - stage IV is right.**

Corrected in the revised manuscript: "4" is now replaced with "IV" (page 4, paragraph 3)

**This is one of the disadvantage of RFA (Page 5) - disadvantages is right.**

Corrected in the revised manuscript (page 5, paragraph 3)

**treatment which included systemic chemotherapy and/or, radiation (Page 6) - comma should be removed.**

Comma removed in the revised manuscript (page 6, paragraph 2)

**leardi reported 100% technical success in 5 patients (Page 8) - lerardi is right.**

Corrected the name of the author in the revised manuscript (page 8, paragraph 2)

**The local recurrence was first treated with SBRT which provided local control (Page 8) - the abbreviation SBRT should be explained in full**

Stereotactic body radiation therapy is now spelled out in the revised manuscript (page 9, paragraph 1)

**Six patients (12.2%) developed acute pancreatitis, one of them were considered as severe (Page 10) - "in one case it was considered..." is right.**

This sentence was corrected according to the suggestion (page 11, paragraph 1)

**1500 to 3,000 V (Page 10) - in text, a visible quadrate symbol before letter V is present. To be corrected.**

Quadrat symbol has been removed and comma added where needed (“1,500 to 3,000 V”) (page 11, paragraph 2)

***Patients with larger than 4 cm pancreatic tumor were excluded study (Page 11) - "excluded from the study" or simply "excluded" is right.***

This sentence has been revised as recommended by the Reviewer (page 12, paragraph 3)

***The IRE probe placements often performed transgastric or transduodenal approach (Page 12) - "via transgastric..." is right.***

As recommended, “via” was added in the revised manuscript (page 14, paragraph 2)

***A recent systemic review[63] (Page 14) - systematic is right.***

“systemic” was replaced with “systematic” in the revised manuscript (page 16, paragraph 3).

***At this point, the relationship between metal stent and IRE complications are not fully understood (Page 15) - "relationships" is right.***

Relationship was changed to relationships (page 17, paragraph 2)

***The authors found that TACE prolongs survival and improve quality of life (Page 18) - maybe "improves" is better.***

This sentence has been corrected (page 21 paragraph 2)

***In Titles of Tables 7 and 8, a word "transarterial" will be capitalized.***

The titles of Table 7 and 8 has been corrected. (64062\_Tables.docx, page 8 and page 9)

### **Answers to Science Editor**

***The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor***

Original pictures in PowerPoint format are included with the revised manuscript.

***If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published; and correctly indicating the reference source and copyrights.***

Please note that all of the attached pictures are original images captured in the author’s institution. None of these pictures are under copyright and were not published or submitted for publication elsewhere.

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- (1) 64062-Answering Reviewers: this file.
- (2) 64062-Audio Core Tip: file is attached.
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- (8) 64062-Image File: file is attached.
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(10) 64062-Supplementary Material: not applicable.