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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Oncology*

Manuscript NO: 85438

Title: Hyperthermia combined with chemotherapy vs chemotherapy in patients with advanced pancreatic cancer: A multicenter retrospective observational comparative study

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06314669

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-04-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-04-30 05:39

Reviewer performed review: 2023-05-10 14:52

Review time: 10 Days and 9 Hours

Scientific quality	<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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty

Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation
Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

It is evident that the authors of this manuscript have put good effort into assess survival, tumor response and toxicity of mEHT for locally advanced or metastatic pancreatic tumor therapy. However, there are several suggestions. 1.I suggest the authors add 1-2 sentences to the abstract, briefly stating the importance, value or innovation of mEHT. 2.In the part of introduction, the authors mentioned the relationships between Lynch syndrome, hereditary pancreatitis, Peutz-Jeghers syndrome, cystic fibrosis, BRCA and pancreatic cancer. However, the source of the datas was not mentioned, so I suggest the authors cite several relevant articles to enhance the persuasiveness of this manuscript. 3.The authors mentioned in the the part of results that “The two groups had similar characteristics (table 1).” but did not give the P values, please recheck the table and mark P values. 4.The authors wrote in the the part of results that “Hyperthermia did not affect the chemotherapy toxicity. No increased blood pressure or any other cardiac

changes were observed for mEHT sessions in patients who received adequate cardiological monitoring including clinical examination, electrocardiogram and echocardiogram.”, the author discuss the toxicity based on cardiovascular system, how about other systems, such as respiratory system? Only discuss the toxicity about cardiovascular system may be inadequate? 5. Just as the authors mentioned in this manuscript, similar studies have been done to validate the advantages of mEHT in pancreatic cancer treatment, so what is the innovation of this manuscript, I suggest the authors claim it clearly. 6. There are many repeated sentences in this manuscript, the authors could use different expressions when express the same result for the second or third time. 7. It will be worthwhile to include the following articles during the revision process: Lechner K., Berger F., Dieterle N., Abdel-Rahman S., Salat C., and Issels R., GEMCITABINE AND CISPLATIN COMBINED WITH REGIONAL HYPERTHERMIA AS SECOND-LINE TREATMENT IN PATIENTS WITH GEMCITABINE-REFRACTORY ADVANCED PANCREATIC CANCER. *Annals of Oncology*, 2012. 23: p. 62-62. Liu X., Song J., Zhang H., Liu X., Zuo F., Zhao Y., Zhao Y., Yin X., Guo X., Wu X., Zhang H., Xu J., Hu J., Jing J., Ma X., and Shi H., Immune checkpoint HLA-E:CD94-NKG2A mediates evasion of circulating tumor cells from NK cell surveillance. *Cancer cell*, 2023. 41(2): p. 272-287.e9. Gorbaslieva I., Peeters M., Ysebaert D., Saldien V., Rudenko O., Brancato L., van den Bossche J., and Bogers J., A monocentric, first-in-human (FIH), safety and preliminary efficacy study of (neo) adjuvant, model-based, whole-body hyperthermia (WBHT) treatment in advanced solid cancer patients or stage IV metastatic pancreatic adenocarcinoma patients. *Journal of Clinical Oncology*, 2022. 40(4). 8. There are some spelling and grammatical errors in the manuscript. The authors should carefully polish the language.



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Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: Italy

Manuscript submission date: 2023-04-27

Reviewer chosen by: AI Technique

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Reviewer performed review: 2023-05-11 08:53

Review time: 1 Hour

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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

1) The title says the results of the treatment results of hyperthermia and chemotherapy in patients with locally advanced pancreatic cancer. Looking at the purpose of the purpose of study, 1. Target patients: locally advanced pancreatic cancer or metastatic pancreatic mass 2. Treatment method: Anticancer treatment alone or in combination with anticancer treatment and heat treatment Therefore, the research title is different from the research purpose 2) Even in the case of locally advanced pancreatic cancer, the treatment response may vary depending on the clinical stage. However, in the evaluation of treatment response results between the two groups, each stage was not considered. If more advanced stages are included in the chemotherapy alone group, this may be considered as bias in the interpretation of the results.