



PEER-REVIEW REPORT

Name of journal: *World Journal of Hepatology*

Manuscript NO: 76222

Title: Tissue Pad Degradation of Ultrasonic Device May Enhance Thermal Injury and Impair its Sealing Performance in Liver Surgery

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02992983

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-03-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-15 14:18

Reviewer performed review: 2022-03-20 12:42

Review time: 4 Days and 22 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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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
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SPECIFIC COMMENTS TO AUTHORS

Ultrasonic devices are widely used in liver surgery. Kajiwarra M et al compare two kinds of ultrasonic device (H-1100 vs. H-HD1000i) tissue pad degradation effects on instrument temperature and sealing performance using ex vivo porcine liver/vessel models. They found H-1100 scalpel shows lower passive jaw temperature and superior sealing performance by avoiding tissue pad degradation compared to that with the H-HD1000i. It can be inferred that by using the H-1100 scalpel, surgeons do not need to worry about device issues related to tissue pad degradation and may eventually reduce hospital costs. The manuscript is well written and accurate in data. Here is one minor concern: it will be better if the authors add the contents about the time for Ex vivo porcine liver from the living body to experiment.



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Reviewer's code: 05908713

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Japan

Manuscript submission date: 2022-03-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-23 15:41

Reviewer performed review: 2022-03-23 16:12

Review time: 1 Hour

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
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SPECIFIC COMMENTS TO AUTHORS

I found the manuscript by Kajiwara et al. well written and well structured. Something , dealing with a quite original argument. However the main issue is the absence of statistical difference in the comparison. Therefore, the conclusions are too strong, and not very interesting. However a better structured discussion may improve its clinical appealing.