

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Surgery*

**Manuscript NO:** 74439

**Title:** Clinical application and research progress of extracellular slow wave recording in the gastrointestinal tract

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05817547

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Postdoctoral Fellow

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-01-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-02-05 09:11

**Reviewer performed review:** 2022-02-13 19:22

**Review time:** 8 Days and 10 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 Grade E: Do not publish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

**Peer-reviewer  
statements**Peer-Review: [ ☒ ] Anonymous [ ☐ ] OnymousConflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No**SPECIFIC COMMENTS TO AUTHORS**

In this manuscript, the authors have evaluated the clinical application and research progress of extracellular slow-wave recording in the gastrointestinal tract. The main issues are as follows: 1- The manuscript must be carefully proofread for grammar, spelling, and punctuation issues. 2- Regarding this manuscript being a narrative review, the authors are expected to refer to their previous research in this field. 3- It is recommended to rewrite the title to reflect the manuscript's content better (In both pathological and physiological conditions).

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**Reviewer's code:** 00073640

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Research Scientist

**Reviewer's Country/Territory:** Slovenia

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-01-06

**Reviewer chosen by:** Qi-Gu Yao (Online Science Editor)

**Reviewer accepted review:** 2022-02-21 15:23

**Reviewer performed review:** 2022-02-22 09:19

**Review time:** 17 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 checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer  
statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

## SPECIFIC COMMENTS TO AUTHORS

The title and the abstract of the manuscript are interesting and topical. In the abstract the authors wrote »This article reviews the application and research progress of electromyography, bio-electromagnetic technology, and high-resolution mapping in animal and clinical experiments; summarizes the clinical application of gastrointestinal electrical stimulation therapy; and induces and prospects the electrophysiological research on the biliary system. » However, the manuscript is too concise and does not provide basic knowledge to introduce the reader with the basic information about the motility in the gastrointestinal (GI) tract, slow wave physiology, the importance of GI dysregulation/dysrhythmia and current situation in this field. The incidence of the human population with potential problems on this issue is also important information that is missing in the manuscript. Therefore, I strongly recommend including an additional section where the authors need to summarize and explain all this information. The authors decided to structure the review based on each technique/method. I strongly recommend including the pictures of some currently used techniques/methods for slow-wave recording in the GI. The authors wrote that they reviewed research in animal and clinical experiments. However, there are not many studies included in the review. I strongly suggest performing a literature search and summarizing animal and clinical studies in 2 separate tables, one for animal studies (with columns entitled, animal species/sex, the method used, examined part of GI, results/comments, ref) the other for clinical experiments (with columns entitled, gender/age, the method used, examined part of GI, results/comments, ref) and state which databases and search terms (keywords) were searched for relevant literature. The table where you briefly state the



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prons and cons (for clinical application) for each technique you explain in the manuscript is also welcome.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Peer-review model:** Single blind

**Reviewer's code:** 00073640

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Research Scientist

**Reviewer's Country/Territory:** Slovenia

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-01-06

**Reviewer chosen by:** Ze-Mao Gong

**Reviewer accepted review:** 2022-04-13 14:32

**Reviewer performed review:** 2022-04-15 13:09

**Review time:** 1 Day and 22 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

The authors followed most of the reviewer's suggestions and improved their manuscript – they included a section where all needed information is presented to introduce the reader to the topic. They included an additional table, where important publications/research for the development of that field are summarized. However, they did not include the pictures of some currently used techniques/methods for slow-wave recording in the GI – due to too short time? As they wrote »could not obtain authorization from other authors for a short period«. Adding the pictures of some currently used techniques/methods for slow-wave recording in the GI would increase the value of the manuscript.