

**Manuscript ID:** 57513

**Title:** Wavelet and pain rating index for inhalation anesthesia: A randomized controlled trial

## **Response to Reviewers' comments**

Dear Editor,

We thank you for your careful consideration of our manuscript. We appreciate your response and overall positive initial feedback and made modifications to improve the manuscript. After carefully reviewing the comments made by the Reviewers, we have modified the manuscript to improve the presentation of our results and their discussion, therefore providing a complete context for the research that may be of interest to your readers.

We hope that you will find the revised paper suitable for publication, and we look forward to contributing to your journal. Please do not hesitate to contact us with other questions or concerns regarding the manuscript.

Best regards,  
Bao-Guo Wang

Reviewer #1:

Scientific Quality: Grade A (Excellent)

Language Quality: Grade A (Priority publishing)

Conclusion: Accept (High priority)

Specific Comments to Authors: A well written and well designed study on the safety and efficacy of using Wavelet index (WLi) or pain rating index (PRi) in sevoflurane anesthesia. The authors state that "wavelet index (WLi) is a new parameter that potentially could be used to regulate the sedative depth of anesthesia". However, "Comparison of the Ability of Wavelet Index and Bispectral Index for Reflecting Regain of Consciousness in Patients Undergone Surgery" was published in 2010 (PMID: 20819504). The authors may consider discussing why its use has not gained widespread acceptability over the last 10 years.

**Response: We are grateful for this comment. The WLi has many instantaneous changes, with large numerical changes, leading to certain limitations in monitoring the depth of anesthesia. Besides, WLi was developed by Chinese researchers and mainly used in China. Meanwhile, the BIS was the only cerebral electrical parameter approved by the US FDA for monitoring sedation depth of anesthesia, and is more widely applied than the WLi.**

Special requirements for figures: Figures must be presented in the order that they appear in the main text of the manuscript (numbered as 1, 2, 3, etc.). The requirements for the figures and figure legends include: (A) All submitted figures, including the text contained within the figures, must be editable. Please provide the text in your figure(s) in text boxes; (B) For line drawings that were automatically generated with software, please provide the labels/values of the ordinate and abscissa in text boxes; (C) Please prepare and arrange the figures using PowerPoint to ensure that all graphs or text portions can be reprocessed by the editor; and (D) In consideration of color-blind readers, please avoid using red and green for contrast in vector graphics or images.

**Response: Thanks for this reminder. We have revised the figures accordingly.**

Special requirements for tables: Tables must be presented in the order that they appear in the main text of the manuscript (numbered as 1, 2, 3, etc.). Please verify that the tables are referred to in the text by their respective Roman numerals and that the numbering order is correct, and format the tables. Please verify that there are no missing or multiple spaces in the text and tables, e.g. before or after parentheses, between words, or before or after symbols like +, ×, ±, <, >, ≥, and ≤. Please verify that the special words or letters in the text and tables are correct, e.g. P (uppercase), n (lowercase), via, vs (lowercase, no punctuation), in vivo, in vitro, and et al (no punctuation) are italicized.

**Response: Thanks for this reminder. We have corrected the tables accordingly.**

Special requirements for references: Please provide the PubMed numbers and DOI citation numbers to the reference list and list all authors of the references. Please revise throughout. The author should provide the first page of the paper without PMID and DOI numbers. NOTE: The PMID is required, and NOT the PMCID; the PMID number can be found at <https://pubmed.ncbi.nlm.nih.gov>. (Please begin with PMID:) The DOI number can be found at <http://www.crossref.org/SimpleTextQuery/>. (Please begin with DOI: 10.\*\*).

Please verify that the references are cited by Arabic numerals in square brackets and superscripted in the text, and that the numbering order is correct. There should be no space between the bracket and the preceding word or the following punctuation. When references in the text and tables are cited with author name(s), it is necessary to manually verify that the name(s) is consistent with the first author's surname in the corresponding reference list.

**Response: Thanks for this comment. We have revised the Reference section accordingly.**

Special requirements for article highlights: If your manuscript is an original study (basic study or clinical study), meta-analysis, systemic review, the “article highlights” section should be provided. Detailed writing requirements for “article highlights” can be found in the Guidelines and Requirements for Manuscript Revision.

**Response: Thanks for this comment. Highlights have been added.**

Ethical documents: Please double check the accuracy of all ethical documents and verify the completeness of the documents according to the type of manuscript.

**Response: Thanks for this comment. We have checked the accuracy of all ethical documents and verify the completeness of the documents.**

Approved grant application form(s) or funding agency copy of any approval document(s): If your manuscript has supportive foundations, the approved grant application form(s) or funding agency copy of any approval document(s) must be provided.

**Response: Thanks for this comment. We have provided the approved grant application forms.**

#### Editorial Office's comments

The author must revise the manuscript according to the Editorial Office's comments and suggestions, which listed below:

(1) Science Editor: 1 Scientific quality: The manuscript describes a randomized controlled trial of the wavelet and pain rating index for inhalation anesthesia. The topic is within the scope of the WJCC. (1) Classification: Grade A; (2) Summary of the Peer-Review Report: This is a well written and well-designed study on the safety

and efficacy of using Wavelet index or pain rating index in sevoflurane anesthesia.. The questions raised by the reviewers should be answered; and (3) Format: There are 6 tables and 2 figures. A total of 40 references are cited, including 7 references published in the last 3 years. There are no self-citations. 2 Language evaluation: Classification: Grade A. A language editing certificate issued by MedSci was provided. 3 Academic norms and rules: The authors provided the Biostatistics Review Certificate, the signed Conflict-of-Interest Disclosure Form and Copyright License Agreement, the Institutional Review Board Approval Form, and the written informed consent was waived. No academic misconduct was found in the CrossCheck detection and Bing search. 4 Supplementary comments: This is an unsolicited manuscript. The study was supported by the Key Research and Development (R&D) Projects of Shanxi Province. The topic has not previously been published in the WJCC. 5 Issues raised: (1) The authors did not provide the approved grant application form(s). Please upload the approved grant application form(s) or funding agency copy of any approval document(s); (2) 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; and (3) The “Article Highlights” section is missing. Please add the “Article Highlights” section at the end of the main text. 6 Re-Review: Not required. 7 Recommendation: Conditional acceptance.

**Response: Thanks for these comments. We have provided the approved grant application forms, original pictures in Power Point and study highlights.**