

## RESPONSE TO REVIEWERS

July 15, 2021

Lian-Sheng Ma,  
Science Editor, Company Editor-in-Chief, Editorial Office  
World Journal of Gastroenterology

Re: Manuscript No.: 68375, Retrospective Cohort Study

Dear Professor Ma:

We wish to re-submit our manuscript, which is now titled “**High total Joule heat increases the risk of post-endoscopic submucosal dissection electrocoagulation syndrome after colorectal endoscopic submucosal dissection**” (manuscript ID, #68375).

We wish to express our appreciation to the reviewer for their insightful comments, which helped us improve our paper significantly. We carefully reviewed these comments and revised the manuscript accordingly. Our responses to the comments from Reviewer 1 and the Company Editor-in-Chief are included below. Additionally, we proofread the manuscript again, based on the comments from the editorial office.

We hope the revised version is now suitable for publication and look forward to hearing from you in due course.

Sincerely,

Masanori Ochi, MD

Department of Gastroenterology, Hitachi General Hospital, Ibaraki 317-0077, Japan

Email: [maochi-tei@umin.ac.jp](mailto:maochi-tei@umin.ac.jp)

Telephone: +81-294-231111

Fax: +81-294-238351

**Reviewer 1's comments:** Colorectal endoscopic submucosal dissection (ESD) is successfully used for the treatment of colorectal superficial neoplasms. A few literatures about the adverse event of post-endoscopic submucosal dissection electrocoagulation syndrome (PECS) have been documented, but the data is not enough to support proper explanation. In this retrospective cohort study, the authors develop new devices for calculating total Joule heat and a definition for PECS, which provide scientific and innovative contents to clinical and basic researches in this field. English needs minor polishing.

**Response:** Thank you for these constructive suggestions. We proofread the manuscript to address your request for English language polishing.

**Company editor-in-chief's comments:** I have reviewed the Peer-Review Report, the full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Gastroenterology, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, the author(s) must add a figures to the manuscript.

**Response:** Thank you for these pertinent comments. Joule heat was calculated by multiplying the power obtained from the manufacturer's diagram (reference 24) by the swift coagulation time obtained using a sensor adjacent to the foot switch of the electrosurgical coagulation unit (power consumption [J] = power [W] × time [s]). However, we had some concerns regarding the use of copyrighted material. The copyright of reference 24 is owned by AMCO Incorporated. Thus, we could not present the diagram in its original form; therefore, we created a new diagram based on the original. Additionally, we obtained permission to use our new diagram from AMCO Incorporated. We provided the new diagram as Supplemental-material 1.