

November 2, 2013

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 5831-review.doc).

Title: Oxidative stress induces gastric submucosal arteriolar dysfunction in the elderly

Author: Lei Liu, Yan Liu, Jie Cui, Hong Liu, Yan-Bing Liu, Wei-Li Qiao, Hong Sun, Chang-Dong Yan

Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 5831

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

(1) The authors have not clearly outlined a hypothesis for this study in the abstract or introduction.

We have revised the hypothesis in the abstract and introduction clearly.

(2) The authors do not specifically state which factors of endothelial function were being studied, nor do they state which type of surgery the gastric vessels were being extracted from.

We research the function changes of gastric submucosal arterioles by testing the vasodilatation to Acetylcholine (ACh) and sodium nitroprusside (SNP). ACh, which stimulus NO synthesis and release from endothelium, and SNP (a NO donor) induced dilation can be used to evaluate the function of endothelium and arterioles. The surgery which the gastric vessels were being extracted from is further explain in the manuscript (page 5, "Harvesting of samples").

(3) The methods and materials used are outlined in great detail, but there are a few abbreviations that are used without explanation of their meaning.

We have revised all the abbreviations in the manuscript, thanks.

(4) The inclusion criteria are unclear for the study. The paper states that "all enrolled patients were ensured [to have] each inspection in normal range". This is somewhat vague and it is unclear what an inspection refers to or what is considered normal range.

We have revised it in "Harvesting of samples" (page 5).

(5) Among our minor comments, there are numerous grammatical errors and run-on sentences throughout the article, which makes it very difficult to read and fully understand all of the points being made by the authors. It may be beneficial to hire a consultant to help with the writing of the manuscript.

The manuscript has been edited by professional English language editing company, and the language certificate is provided.

(6) The contents of materials and methods is not enough to understand the data presented here. The authors should describe the methods briefly and use the references of each method, especially measurements of MDA, H₂O₂, SOD and GSH-Px. 2) We can not understand the "activity of H₂O₂ or MDA". Usually, it should be indicated as contents of these compounds.

We have described the methods briefly in the manuscript. We are sorry for using the wrong word, it is "contents of H₂O₂ and MDA", thanks.

(7) The younger patients had operations for different indications than older patients. If so, this needs to be documented. 2. The first sentence in the conclusions has not been demonstrated. The findings suggest that these changes MAY LEAD to vascular dysfunction, but this is not proven with this manuscript.

Young and elderly patients undergoing subtotal gastrectomy for gastric cancer were enrolled in this study. The surgery is further explained in page 5, "Harvesting of samples". We have revised the conclusions in the revised manuscript.

3 References and typesetting were corrected

Thank you again for publishing our manuscript in the *World Journal of Gastroenterology*.

Sincerely yours,



Chang-Dong Yan, MD
Xuzhou Medical College
No. 209, Tongshan Road
Xuzhou 221004, Jiangsu Province, China
Fax: +86-516-83262014
E-mail: yancd55@163.com