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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 85822

Title: Effect of exogenous hydrogen sulfide in the nucleus tractus solitarius on gastric

motility in rats

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03259005 Position: Peer Reviewer

Academic degree: DSc, MD, PhD

Professional title: Chairman, Full Professor

Reviewer's Country/Territory: Ukraine

Author's Country/Territory: China

Manuscript submission date: 2023-05-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-18 16:11

Reviewer performed review: 2023-06-02 00:55

Review time: 14 Days and 8 Hours

Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [] Minor revision [Y] Major revision [] Rejection
Re-review	[Y]Yes []No



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Peer-reviewer	Peer-Review: [Y] Anonymous [] Onymous	
statements	Conflicts-of-Interest: [] Yes [Y] No	

SPECIFIC COMMENTS TO AUTHORS

The article "Effect of exogenous hydrogen sulfide in the nucleus tractus solitarius on gastric motility in rats" elaborates on an interesting topic. In general, it presents interesting and relevant data. I recommend the article for revision, and please take the comments into consideration, as well as the style of how the manuscript was written. First, authors should follow IMRAD (Introduction with aim/s, Methods, Results, Discussion) approach to prepare materials. There are inconsistencies in this article when cohort description (Methods) presented before Aims (objectives) of study. I found in the article's Introduction section: 1. absent information what references used authors: [70]: The number of patients with stress-induced gastric ulcers has increased 2. I guess more appreciative used neural signaling (sure singe nerve is not responsible for it) [73] The NTS is a relay nucleus of the visceral primary afferent nerve. 3. It need correction since H2S produced in animal & human: [97]: In contrast, H2S is a novel gas transmitter discovered recently, produced [98] endogenously in the brain and human 4. This statement needs reference: [139] while NK1 receptors are organ tissues. responsible for 140 neurally mediated digestive secretion. In Methods: 1. {180} Immunohistochemical fluorescence double labeling - the present information did not reflect content. 2. the description of the selected dose for treatment was not explained scientifically • Absent description of how was analyzed images of fluorescence photography and immunofluorescence staining data? What approach was used for evidence-based research? It's not correct: [181] We chose the RWIS stress model to activate neuron [25] in the results section Authors use the statement [313] We compared gastric motility images but presented morphological data. Only the



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statistic significant results should be presented. This manuscript meets the basic requirements for Original articles; however, presented some gaps should be corrected and new version should be prepared after major revision.



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Peer-review model: Single blind

Reviewer's code: 03259131

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Surgeon, Surgical Oncologist

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-05-18

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-11 23:31

Reviewer performed review: 2023-06-16 17:00

Review time: 4 Days and 17 Hours

	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
Creativity or innovation of	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair
this manuscript	[] Grade D: No creativity or innovation



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Scientific significance of the conclusion in this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Review comments WJG 85822_reviewer. It is my great honour and pleasure to review such an interesting manuscript. The authors tried to prove that there are neurons co-expressing was used to investigate the presence of cystathionine beta-synthase (CBS) and c-Fos in the multiple signaling pathways. The nucleus tractus solitarius (NTS) is an, and the injection of NaHS into the NTS can inhibit gastric motility in rats. This effect may be mediated by or transient receptor potential vanilloid 1 (TRPV1) antagonist Capsazepine or and sensations in peripheral nerves. This includes activating neurokinin 1(NK1) receptors via nuclear factor kappa-B (NF-κB) is channel-dependent activation. This study was experimentally analyzed by using the animal models. there is a big difference between the human and the rats. However, I respect the authors' labor and the results are important. This topic is interesting and important. I recommend this manuscript for the publication of "World Journal of Gastroenterology".