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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39873

Title: Implication of neurohormonal coupled mechanisms of gastric emptying and pancreatic secretory function in diabetic gastroparesis.

Reviewer's code: 03254146

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-05-21

Date reviewed: 2018-05-27

Review time: 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[Y] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced
			[ ] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

I'm pleased to review the precious review paper entitled "Implication of neurohormonal coupled mechanisms of gastric emptying and pancreatic secretory function in diabetic gastroparesis.". Present review article summarized traditional findings on

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pathophysiology of diabetic gastroparesis (DGP) especially from the viewpoint of a neurohormonal interrelationship between the gastric emptying and pancreatic secretory function and provided a novel insights in our understanding of the pathophysiology and potential therapeutic targets of DGP. . Major points. 1) Excellent reviews on DGP or related original articles have been published. The authors are recommended to refer to them and emphasize the importance of a neurohormonal interrelationship between the gastric emptying and pancreatic secretory function more. Examples 1) Am J Gastroenterol 2013; 108:18–37; doi:10.1038/ajg.2012.373; published online 13 November 2012 2) Chinmay S. Marathe, Christopher K. Rayner, Karen L. Jones & Michael Horowitz (2016) Novel insights into the effects of diabetes on gastric motility, Expert Review of Gastroenterology & Hepatology, 10:5, 581-593, DOI: 10.1586/17474124.2016.1129898 3) Br Med Bull. 2013;105:213-30. doi: 10.1093/bmb/ldt003. Epub 2013 Jan 29. 4) Gastroenterology Clinics of North America Volume 44, Issue 1, March 2015, Pages 39-57 Minor points. 1) It is hard to understand what "the latter"s mean. (especially lines, 292, 479, 549, 584 and 587) 2) Generally speaking, "recent" and "recently" usually refer to the last few years. 3) Please cite a reference on the latency of pancreatic responses to nutrients stimuli at appropriate place.(line 219) 4) Detailed descriptions on gastric emptying cannot be confirmed in ref 31 and 32 (line 237). Ref 31 is textbook. 5) Please describe the reason why the authors determined "these reflexes seem to be mainly mediated by GI hormones". The reasonable reason of "mainly". (line 243) 6) Please paraphrase "unmasks" to another word. It is difficult to get meaning (270) 7) It is difficult to get meaning (line 308-311) 8) Recently it is reported that TRPV2 ion channel is involved in LPI-stimulated GLP-1 secretion in enteroendocrine L cells. (line 4.1.1) Ref Lysophosphatidylinositol-induced activation of the cation channel TRPV2 triggers glucagon-like peptide-1 secretion in enteroendocrine L cells http://www.jbc.org/content/early/2017/05/22/jbc.M117.788653 9) Recently it is

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reported that a mechanosensitive TRPV2 ion channel is co-expressed in nNOS-expressing inhibitory motor neurons in mouse stomach (line 530) Ref TRPV2 ion channels expressed in inhibitory motor neurons of gastric myenteric plexus contribute to gastric adaptive relaxation and gastric emptying in mice https://www.physiology.org/doi/abs/10.1152/ajpgi.00256.2012?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed 10)"GI emptying" may be replaced to Gastric emptying ? (line 564) 11) Line 729, ref 17 12) Line 1038, ref 132. There is no published year. 13) Line 136, ref 136. There is unnecessary "." And ",". 14) Figure1. The direction of a distal side of two arrows in vagal afferents should be toward NTS but not to stomach and pancreas.

INITIAL REVIEW OF THE MANUSCRIPT

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