

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 13303

Title: The High-Mobility Group Box 1 protein (HMGB1) and its role in Severe Acute Pancreatitis

Reviewer code: 02548034

Science editor: Yuan Qi

Date sent for review: 2014-08-16 18:31

Date reviewed: 2014-08-25 16:21

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Summary The authors reviewed with the latest findings on the role of the high-mobility group box 1 protein (HMGB1) in severe acute pancreatitis (SAP). This review is comprehensive, useful, and well-written. Some specific comments are provided as follows. Specific Comments 1. Page 1. Introduction. Paragraph 1. Please add "syndrome" after "acute respiratory distress". 2. Page 2. "AP is defined as an acute inflammatory process of the pancreas (duration less than 6 months)." The words in the parenthesis can be deleted. In the next paragraph for SAP: "Organ failure is defined as..." It is more appropriate to say "Organ failure was defined as...". 3. Page 3. Add ">" before "10% bands" in Table 1. In the third-last line, please check whether it is pericardial or pancreatic? 4. Page 4. HMGB1 has been reported to be secreted into extracellular milieu not only in necrosis, but also in apoptosis (at least in some cell types). (Please refer to Bell CW et al. The extracellular release of HMGB1 during apoptotic cell death. Am J Physiol Cell Physiol. 2006;291:C1318-25; and Yamada Y et al. The release of high mobility group box 1 in apoptosis is triggered by nucleosomal DNA fragmentation. Arch Biochem Biophys. 2011 Feb 15;506:188-93.) 5. Page 5. It is better to change "eight controls" to "eight healthy controls" in the second-last line. 6. The past paragraph in the conclusions section is not relevant to the topic, and may be deleted. 7. Please add reference number to the cited papers in Tables. 8. There are several typos and grammatical errors throughout the manuscript (including text and tables). Professional copy-editing is needed.

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Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 13303

Title: The High-Mobility Group Box 1 protein (HMGB1) and its role in Severe Acute Pancreatitis

Reviewer code: 00037018

Science editor: Yuan Qi

Date sent for review: 2014-08-16 18:31

Date reviewed: 2014-08-29 16:18

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is an interesting review article on the involvement of HMGB1 in the pathogenesis of severe acute pancreatitis. The article gives an exhaustive coverage of the topic, however needs to be improved in the English language and other formal aspects. This reviewer could spot the following points that need to be revised: - the abstract needs to be expanded giving more details on the content of the review; - line 41, erase "in sequence"; - line 57, please give more details on "affecting other regional tissues or remote organ systems" - line 71, change 2.0 with 2 - lines 85-87, give more details on points 2 and 3 - lines 94-95, the sentence "recent studies show that autophagy is also activated in pancreatitis but impaired as a result of the dysfunction of the lysosomes" is not clear and needs more details; - line 126, "the inflammatory response is dismissed" is not clear, please explain - lines 150-151, nuclear factor kappa B can be used as an acronym (this comment refers even to other parts of the manuscript) - line 216: what does ALI stand for? - lines 219-224: please give more details on the structure, the addition of a picture with a scheme of HMGB1 structure would be great; this paragraph is not clear and please give more details on the experiments performed by Yuan and Kong. - lines 262-266: Please give more details on the molecules that are active in the extract from *Scolopendra subspinipes mutilans*: what is their structure? The sentence at line 262 is not clear, since *Scolopendra subspinipes mutilans* is the name of the scolopendra and not of the extract and active molecules, please revise. The conclusions need to be rewritten and clarified, in particular: "internationally" is not clear, "more and



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more studies" does not seem appropriate. The last sentence "The more functions of HMGB1 are waiting for us to reveal" needs revision. Please add a picture summarizing the contents of the review.