

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

Ms: 1553

Title: Clinical significance of melatonin concentrations in predicting the severity of acute pancreatitis

Reviewer code: 00068311

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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 checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" 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)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS

COMMENTS TO AUTHORS:

It is an interesting article describing Clinical significance of melatonin concentrations in predicting the severity of acute pancreatitis. The following comments may help to clarify some points and strengthen the manuscript. 1. Introduction on melatonin in physiological and pathological conditions(AP) is beneficial. It is valuable to discuss the protective activities such as promotion of neutrophil apoptosis, inhibition NF-kappaB activity, diminishing TNF-alpha expression, IL 22, cytosolic Ca²⁺ homeostasi ...ect. 2. There are variations in the melatonin concentration during the day and night, serum concentrations are higher at night. Why 06.00 am is chosen to measure serum MT level? This needs further elaboration. 3. "Our results clearly demonstrate that high score rate of BISAP reflecting the more severe condition is increasing with the MT concentration decreased", what does it mean?? The sentence needs to be rephrased. 4. Complete names of abbreviations when mentioned 1ST time in text such as: AP, MT, BISAP, SOD, GSH and CAT; the readers need to be reminded about these abbreviations 5. Inform the readers about Youden index 6. 46% of SAP cases are due to hyperlipidemia!! This number is extremely high, what is the explanation? 7. Table 1: BMI is missing 8. The number of operations mentioned in table 1 is high (18%) in MAP, it is low (7.7%) in SAP; which type of operation and what is the explanation? 9. Table 4 requires further clarification 10. There are typing and grammar errors that need language editing. 11. References The following recent references may be used to further update the manuscript ? Huai JP, Sun XC, Chen MJ, Jin Y, Ye XH, Wu JS, Huang ZM. Melatonin attenuates acute pancreatitis-associated lung injury in rats by modulating interleukin 22.World J Gastroenterol. 2012 Sep 28;18(36):5122-8. ? Jaworek J, Szklarczyk J, Jaworek AK, Nawrot-Por?bka K, Leja-Szpak A,



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Bonior J, Kot M. Protective effect of melatonin on acute pancreatitis. *Int J Inflam*. 2012;2012:173675.. ? Huai J, Shao Y, Sun X, Jin Y, Wu J, Huang Z. Melatonin ameliorates acute necrotizing pancreatitis by the regulation of cytosolic Ca²⁺ homeostasis. *Pancreatology*. 2012 May-Jun;12(3):257-63 ? Arushanian éB. [Protective role of melatonin in pancreatic gland disorders]. *Eksp Klin Farmakol*. 2012;75(4):42-8.