

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 12036

Title: Mechanism Study of Gypenosides on Type 2 Diabetes and Non-alcoholic Fatty Liver Disease in Rat

Reviewer code: 02860898

Science editor: Yuan Qi

Date sent for review: 2014-06-19 19:12

Date reviewed: 2014-07-03 09:08

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 checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input checked="" 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"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The work has potential interest. The overall english is poor and need to be corrected. # the group division (I-V) needs to be clarified earlier because it is confusing. A table should help to understand the different conditions. Also, a scheme of the treatment and times would help greatly. # The abbreviations need to be explained not only in the abstract but also the first time they appear in the text and also in the legends to figures. # As it is known and the authors explained in the discussion, TNF-alpha is mainly produced by monocytes/macrophages. The difference observed herein could be due to diminish macrophages in the liver. It would be useful to measure by qPCR and immunohistochemistry if the macrophages F4/80+ are altered in the model group and what is the effect of GP on macrophage number and/or F4/80 expression. # Are the doses administered here comparable to those used for the pharmacological studies mention? Is there any toxic effect of GP that might be considered at high doses? # In the figure 1, it is not clear the difference between the groups. A graph showing the final body weight would be more useful. Also, "Liver Index" should be defined in the legend and also, in the text. # In the figure 2, a higher magnification (400 x) should be included. # The authors stated that HFSD induced lipid deposition. Did the model group show inflammation or ballooning of the hepatocytes? Did the GP treatment affect these two features?

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Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 12036

Title: Mechanism Study of Gypenosides on Type 2 Diabetes and Non-alcoholic Fatty Liver Disease in Rat

Reviewer code: 02822333

Science editor: Yuan Qi

Date sent for review: 2014-06-19 19:12

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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 type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input checked="" 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 checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This manuscript presents a series of well thought out experiments related to effects of “gypenosides” on rat model of type 2 diabetes mellitus combined non-alcoholic fatty liver disease (T2DM-NAFLD). However, the data shown in this manuscript is insufficient and failed to clarify the mechanism. This study contains many dubious biological response, problems and confused statements. It is well known that single high dose STZ injection (>60 mg/kg BW) results in massive pancreatic beta cell destruction, more characteristic of T1DM, whereas intermediate dosages of STZ injections (between 40 and 55 mg/kg BW) cause only partial impairment to insulin secretory mechanisms seen in T2DM. These models are usually characterized by fasting or non-fasting hyperglycemia, lowered serum insulin levels with hyperlipidemia. However, the levels of serum insulin in HFSD-induced T2DM-NAFLD rats was much higher than that of controls in Table 2. In Materials and methods section, the body weight of rats was 220 to 250 g before the experiments. In figure 1, the body weight was about 180 g at week 1. The experimental protocol is very dubious. How long did the gypenosides intervention? Treatment durations should be consistent all of the experiments. Six or fourteen weeks? P9, it seems like the figure legends were copied in the two paragraphs. The transcriptional activity of peroxisome proliferator activated receptor γ should be determined.

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Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 12036

Title: Mechanism Study of Gypenosides on Type 2 Diabetes and Non-alcoholic Fatty Liver Disease in Rat

Reviewer code: 02890067

Science editor: Yuan Qi

Date sent for review: 2014-06-19 19:12

Date reviewed: 2014-07-14 21:31

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" 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 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	<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 paper which may improve our knowledge in the fields. The subject matter is suitable for the intended audience and it fits the journal scope. Article is mostly clearly written, but Title is suggestive of the article's content. Article is appropriately organized and the headings are indicative of content I suggest to accept this paper in the present form.