

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 45121

Title: Hemodynamic changes in hepatic sinusoids of hepatic steatosis mice

Reviewer's code: 02520900

Reviewer's country: Germany

Science editor: Ruo-Yu Ma

Date sent for review: 2019-01-04

Date reviewed: 2019-01-11

Review time: 3 Hours, 7 Days

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

SPECIFIC COMMENTS TO AUTHORS

Hemodynamic changes in hepatic sinusoids of hepatic steatosis mice Corresponding author: Wei-Guang Zhang, MD, PhD, Professor, Zhang et al. conducted an animal study with the aim to evaluate histological changes and modification of intrahepatic hemodynamic in CCL4 induced steatotic mouse livers. The authors used 2 different



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strain, CCL4 for lipid accumulation and H.E. for hepatic sinusoidal vessels. A 2-fluorescence photon microscope was used to assess the flow pattern of the red blood cells. The authors found that as modeling time increase the plasma flow gradually decreased and the diameter of the sinusoidal vessel became smaller. The introduction provides a summary of the studies which were done so far. The aim of the study is clear stated at the end of the introduction. The used material and methods are listed understandable. In the discussion their own results are discussed with the result from other authors. Most studies which were done with focus of hemodynamic evaluated the macrohemodynamic. The conducted study has a different approach and is the first one, which direct indicates visual the changes in fatty livers. From that point of view, the study should be published in the present form.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 45121

Title: Hemodynamic changes in hepatic sinusoids of hepatic steatosis mice

Reviewer's code: 02666537

Reviewer's country: Netherlands

Science editor: Ruo-Yu Ma

Date sent for review: 2019-01-04

Date reviewed: 2019-01-11

Review time: 4 Hours, 7 Days

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

SPECIFIC COMMENTS TO AUTHORS

Of interest, but very invasive methods: CCl₄ poisoning to induce steatosis and cutting open the mice for the blood flow measurements. MRI methods offer the same information and are superior and noninvasive. Relevant studies involving MRI should be cited and discussed, also the US study of Topal et al. J Clin US, 2015;43:26-33. The



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abstract must give numbers (mice groups, flow and diameter changes). In introduction the last paragraph must also come with references. In results the headings should be shortened to Weight changes, Lipid deposition etc. The value (clinical relevance) of the sinusoids measurements presented here, compared with what the others did, must be made clear.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Plagiarism
- ☐ No