

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 40419

Title: Establishment of a novel rat model with heterogeneous hepatic injury by injection of colchicine through splenic vein

Reviewer's code: 02992691

Reviewer's country: Greece

Science editor: Xue-Jiao Wang

Date sent for review: 2018-09-11

Date reviewed: 2018-09-19

Review time: 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 type="checkbox"/> Grade C: Good	polishing	<input 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Excellent study about the a rat model of heterogeneous hepatic injury. The study is well designed and the results are very interesting. The authors found that the injection of colchicine through splenic vein can successfully develop a rat model of heterogeneous



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hepatic injury. And the DWI and T2WI can potentially evaluate the heterogeneous injury among liver lobes. Those results are very important, and can help the clinicians make a better understanding for heterogeneous hepatic injury. The references can be updated and a minor language revision is required.

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: 40419

Title: Establishment of a novel rat model with heterogeneous hepatic injury by injection of colchicine through splenic vein

Reviewer's code: 02992693

Reviewer's country: South Korea

Science editor: Xue-Jiao Wang

Date sent for review: 2018-09-11

Date reviewed: 2018-09-25

Review time: 13 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 type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This study is a very interesting about the novel rat model with heterogeneous hepatic injury by injection of colchicine through splenic vein. The study is very well designed and the results are very well displayed. In this study, 70 male Sprague-Dawley rats were

randomly divided into control group and colchicine group. The heterogeneous injury between left and right hepatic lobes was assessed on liver sections according to the histological scoring criteria, and correlated with the result of MR study. The authors found that the obvious pathological change of hepatic parenchyma was observed over time in colchicine group. The hepatic injury score was significantly different between left and right lobes at each time point respectively. And the injection of colchicine through splenic vein can successfully develop a rat model of heterogeneous hepatic injury. DWI and T2WI can potentially evaluate the heterogeneous injury among liver lobes. 1 Title. The title can be changed to "Heterogeneous hepatic injury by injection of colchicine through splenic vein: a novel rat model establishment". 2 Abstract well summarizes and reflects the work described in the manuscript. 3 Methods and results in the main text are good enough for acceptance. 4 Figures are good. Figure 1 is not very clear, a more clearer document should be provided. 5 The manuscript need an editing. Some minor language polishing should be revised.

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[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 40419

Title: Establishment of a novel rat model with heterogeneous hepatic injury by injection of colchicine through splenic vein

Reviewer's code: 03003965

Reviewer's country: United Kingdom

Science editor: Xue-Jiao Wang

Date sent for review: 2018-09-11

Date reviewed: 2018-09-25

Review time: 13 Days

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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Very designed study about the establishment of a novel rat model with heterogeneous hepatic injury. The study is well designed and the results are interesting. Only the English requires a minor revision.



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