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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 52356

**Title:** Liver stiffness and perfusion changes for hepatic sinusoidal obstruction syndrome in rabbit model

**Reviewer's code:** 04718328

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor, Chief Doctor

**Reviewer's country:** Italy

**Author's country:** South Korea

**Reviewer chosen by:** Jin-Zhou Tang

**Reviewer accepted review:** 2019-11-04 12:44

**Reviewer performed review:** 2019-11-17 13:54

**Review time:** 13 Days and 1 Hour

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
<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 checked="" type="checkbox"/> Minor revision	topic of the manuscript:
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

I have reviewed with great interest this basic science study by Shin et al. which investigated in a rabbit model of hepatic veno-occlusive diseases (VOD) induced by 6-thioguanine (9 VOD cases and 3 control group) the diagnostic role of liver stiffness (LS) by supersonic shear wave imaging (SSI) and liver perfusion by dual-energy computed tomography (DECT). The authors concluded that those non-invasive tests could perform early diagnosis of VOD in the rabbit model. This paper is well conducted and give new insight on the physiopathological mechanisms of VOD leading to the imaging changes showed with LSM and DECT confirming the recent evidence in different both in animal and human context (post hemopoietic stem cells transplantation and post-chemotherapy treatments). The reviewer would suggest to the author to define the VOD with the more recent definition of Sinusoidal Obstruction Syndrome. Moreover, the authors should take into account also following important references (DOI: 10.1080/17474124.2019.1588111; 10.1111/petr.13456; 10.1038/bmt.2016.320; 10.1038/bmt.2014.61; 10.1038/bmt.2012.113)

## **INITIAL REVIEW OF THE MANUSCRIPT**

### *Google Search:*

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

### *BPG Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism



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[ Y ] No