

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 56981

Title: Endogenous motion of liver correlates to the severity of portal hypertension

Reviewer's code: 03306709

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Lithuania

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Reviewer chosen by: AI Technique

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors evaluate the feasibility of parameters of ultrasound endogenously induced displacements and strain of liver to assess degree of portal hypertension using a specifically developed radiofrequency (RF) signal analysis algorithm. Their main find is that the parameters of endogenously induced displacements and strain of the liver correlated with hepatic venous pressure gradient and have fairly good diagnostic accuracy with selected cutoff of parameters. Major revisions 1. In the introduction part, the authors have emphasized the superiority of SE to TE methods, especially in patients with ascites or obesity. please explain why ascites is added into the exclusion criteria in the present study. 2. The result might have been more informative if the authors should supply the liver function evaluation such as the Child-Pugh score of recruited patients. 3. Please describe a little more of the selection of ROI in details. 4. The HVPG and column value did not correspond with each other in table 2. Please check again. 5. In the discussion, the author's claimed that the method "has an important advantage as it is not influenced by ascites, narrow intercostal spaces, obesity, active hepatic inflammation and cholestasis". Please find concrete evidence in the present or previous study that support this opinion, especially in ascites and obesity patients.