



## PEER-REVIEW REPORT

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

**Manuscript NO:** 56428

**Title:** Experimental Model Standardizing Polyvinyl Alcohol Hydrogel to Simulate Endoscopic Ultrasound and EUS-Elastography

**Reviewer's code:** 02468626

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2020-04-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-05-01 10:12

**Reviewer performed review:** 2020-05-03 10:08

**Review time:** 1 Day and 23 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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## **SPECIFIC COMMENTS TO AUTHORS**

The authors presented an innovative simulator for EUS-elastography using the mechanical properties of polyvinyl alcohol hydrogel for simulating organs and digestive lesions. The study is interesting and well documented. However, a few remarks need to be raised. Major remarks 1) The term “endosono” should be replaced with the more common endoscopic ultrasound (EUS) 2) It is not clear if the phantom was used for EUS-elastography or EUS (B-mode) and EUS-elastography. With the current version of the title and text, one is led to think that it is all about EUS-elastography. However, description and images made me think you wish to refer to both B-mode EUS and EUS-elastography. Please make everything clear in the title and text. 3) Abstract, 1st line. Instead of “This...” I think that the authors wish to refer to previous models that have been reported in the literature. 4) Introduction, 1st paragraph. The sentence is not clear, please rephrase. 2nd paragraph. Please eliminate “This” at the beginning of the sentence. I would suggest “Simulators may reduce the learning curve...” In the paragraph beginning with “The DH effectiveness for diagnosing...” you are referring to the results of a single study, which were not been confirmed with the same high figures by subsequent studies. Please rephrase this whole section of the introduction in order to refer to the literature in general and not just limited to a single study. 5) The technique of observation by the two endosonographers should be reported under a different chapter than “Statistical analysis”. 6) Results. “Cystic lesions were created...degree of satisfaction”. As far as I know, cysts are not a good target for elastography. Please clearly explain if these were used only for B mode EUS. Moreover, what do you mean with “degree of satisfaction”? Please explain. Finally, I cannot find any correspondence between the legend of figure 6b and the figure itself. 7) A picture of the actual phantom would be greatly preferable over the drawing in figure 1. 8) Is the phantom reusable? 9) If possible, please give us an idea of the putative



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costs for producing such a simulator. 10) Some important references are missing: -Igneu, A., Jenssen, C., Arcidiacono, P.G., Hocke, M., Möller, K., Saftoiu, A., Will, U., Fusaroli, P., Iglesias-Garcia, J., Ponnudurai, R., Petrone, M.C., Braden, B., Burmester, E., Dong, Y., Atkinson, N.S., Dietrich, C.F. Endoscopic ultrasound elastography of small solid pancreatic lesions: A multicenter study (2018) *Endoscopy*, 50 (11), pp. 1071-1079. -Fusaroli P, Eloubeidi MA. Endoscopic ultrasound elastography in diagnosing chronic pancreatitis: has the strain ratio found its region of interest? *Endoscopy*. 2013 Oct;45(10):789-91. -Dawwas MF, Taha H, Leeds JS, Nayar MK, Opong KW. Diagnostic accuracy of quantitative EUS elastography for discriminating malignant from benign solid pancreatic masses: a prospective, single-center study. *Gastrointest Endosc*. 2012 Nov;76(5):953-61. -Fusaroli, P., Kypraios, D., Eloubeidi, M.A., Caletti, G. Levels of evidence in endoscopic ultrasonography: A systematic review (2012) *Digestive Diseases and Sciences*, 57 (3), pp. 602-609. -Larsen MH, Fristrup C, Hansen TP, Hovendal CP, Mortensen MB. Endoscopic ultrasound, endoscopic sonoelastography, and strain ratio evaluation of lymph nodes with histology as gold standard. *Endoscopy*. 2012 Aug;44(8):759-66. -Saftoiu A, Vilmann P, Gorunescu F, Janssen J, Hocke M, Larsen M, Iglesias-Garcia J, Arcidiacono P, Will U, Giovannini M, Dietrich C, Havre R, Gheorghe C, McKay C, Gheonea DI, Ciurea T. Accuracy of endoscopic ultrasound elastography used for differential diagnosis of focal pancreatic masses: a multicenter study. *Endoscopy*. 2011 Jul;43(7):596-603. -Fusaroli P, Saftoiu A, Mancino MG, Caletti G, Eloubeidi MA. Techniques of image enhancement in EUS (with videos). *Gastrointest Endosc*. 2011 Sep;74(3):645-55. 11) Please perform some language polishing in terms particularly regarding present/past tense concordance.



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

**Manuscript NO:** 56428

**Title:** Experimental Model Standardizing Polyvinyl Alcohol Hydrogel to Simulate Endoscopic Ultrasound and EUS-Elastography

**Reviewer's code:** 03765506

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Lecturer

**Reviewer's Country/Territory:** Egypt

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2020-04-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-05-10 05:18

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**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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**SPECIFIC COMMENTS TO AUTHORS**

i think its a very nice paper for publication



## PEER-REVIEW REPORT

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

**Manuscript NO:** 56428

**Title:** Experimental Model Standardizing Polyvinyl Alcohol Hydrogel to Simulate Endoscopic Ultrasound and EUS-Elastography

**Reviewer's code:** 03026750

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Lecturer

**Reviewer's Country/Territory:** Egypt

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2020-04-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-04-30 21:30

**Reviewer performed review:** 2020-05-10 22:42

**Review time:** 10 Days and 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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#### **SPECIFIC COMMENTS TO AUTHORS**

Important topic. However, i have many comments: 1. Some paragraphs in the introduction and discussion are not clear and need paraphrasing 2. Great deal with language polishing 3. Role of elastography in cystic lesions 4. Using term endosono (better with popular term endosonography or endoscopic ultrasound)



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's code:** 02468626

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Mexico

**Manuscript submission date:** 2020-04-30

**Reviewer chosen by:** Le Zhang

**Reviewer accepted review:** 2020-07-07 11:32

**Reviewer performed review:** 2020-07-07 11:36

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

I think that the authors have satisfactorily replied to reviewers' criticisms and improved the manuscript accordingly