



Dec 16, 2014

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 15120-review.doc).

Title: The Usefulness of two-Point Dixon Fat-Water Separation Technique in Gadoteric Acid -Enhanced Liver MR Imaging

Author: Ying Ding, Sheng-xiang Rao, Cai-zhong Chen, Ren-chen Li, Meng-su Zeng

Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 15120

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

- (1) In "Materials and Methods" section authors should defined sample size and study population which are described only in the "Results" section.

Answer: The sample size and study population which were described in the "Results" section had been added in "Materials and Methods".

- (2) Results" section are not very detailed. Authors should supply some additional information to describe results shown in Figure 1 and 2 and emphasize all obtained data giving more details.

Answer: We have added the information in Figure 1 and 2.

- (3) Furthermore, the following references should be added in the "Introduction" section since could be useful for the study to know an approach for automatic segmentation of liver complex geometries for the accurate knowledge of the liver structure including the topography of the blood vessels, liver surface and lesion localizations. Conversano F, et al. "Hepatic vessel segmentation for 3D planning of liver surgery: experimental evaluation of a new fully automatic algorithm". *Acad Radiol* 2011; 18(4):461-470. Massoptier et al., A new fully automatic and robust algorithm for fast segmentation of liver tissue and tumors from CT scans, *European Radiology* 2008, 18: 1658-1665. Casciaro et al, Fully automatic segmentations of liver and hepatic tumors from 3-D computed tomography abdominal images: Comparative evaluation of two automatic methods, *IEEE Sens J* 2012, 12: 464-473.

Answer: The three reference had been added.

- (4) Should we spend the enhanced fat suppression for a lower lesion detectability?. The authors should point on this aspect in the discussion.

Answer: We performed the enhanced fat suppression in conventional MRI examination.

- (5) The language needs to be improved because some grammar, spelling and punctuation mistakes appear here and there.

Answer: We have consulted the English speaker and the language had been modified.

- (6) Abstract: Aim: please indicate what examination is going to be done on these patients. Is it MRI or CT?

Answer: These patients were going to be performed with MRI examination.

- (7) Methods: The authors should also indicate what diseases these patients had, for example hepatic carcinoma or other chronic diseases.

Answer: The related information had been mention in the "Results".

- (8) Conclusion: please indicate in what area these two techniques can be used or for what diseases.

Answer: The two techniques could be used in the patients who were known or suspected with having focal liver lesion.

- (9) Key words: replace VIBE with volumetric interpolated breath-hold examination, FS with fat saturation, and MRI with magnetic resonance imaging.

Answer: The key words have been replaced.

- (10) USE of abbreviation: When using abbreviations, please give the full phrase at the first time using the abbreviation. Later, you can always use the abbreviation without giving the complete phrase. For example, three dimensional (3D). Please indicate what 3D means in the INTRODUCTION.

Answer: We have given full phrase at the first time when using abbreviations.

- (11) Use of references: When citing other researchers work, just use the family name of the authors without giving the abbreviations of their given name. However, the authors used the given name also when citing others work. For example, Ragan DK [11], Rosenkrantz AB[14]. Please delete DK and AB. If there are more than one authors, please used et al to indicate more than one authors. There are more than one authors for reference 14, but the authors did not use et al after Rosenkrantz. Please check the whole article and correct similar problems.

Answer: We have checked the references according to the formula.

- (12) Discussion: What does (↑ 2 minutes) mean in the last second paragraph?

Answer: The 2-minute means the time interval between the two sequences, because we could not perform the two sequences at the same time. However, the interval is too short to affect the results.

- (13) Figures: In Fig.1 and 2, there are some signs like x x x. What do these signs mean in a xx-year-old patient with xx? Is this a secret?

Answer: These places have been supplemented.

3 References and typesetting were corrected

Thank you again for publishing our manuscript in the *World Journal of Gastroenterology*.

Sincerely yours,

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