

## PEER-REVIEW REPORT

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

**Manuscript NO:** 48242

**Title:** Quantitative diffusion-weighted magnetic resonance-enterography in ileal Crohn's disease: Systematic analysis of intra and interobserver reproducibility

**Reviewer's code:** 03254879

**Reviewer's country:** United States

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-04-17 14:19

**Reviewer performed review:** 2019-04-19 19:16

**Review time:** 2 Days and 4 Hours

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 team. Important topic. Would be helpful to have better idea of disease severity in the Crohn's disease patients. As this is a retrospective, data on endoscopic scoring (SES-CD or CDEIS) might not be available. I would consider



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adding the histology severity into the clinical table.

#### INITIAL REVIEW OF THE MANUSCRIPT

##### *Google Search:*

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

##### *BPG Search:*

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

**Manuscript NO:** 48242

**Title:** Quantitative diffusion-weighted magnetic resonance-enterography in ileal Crohn's disease: Systematic analysis of intra and interobserver reproducibility

**Reviewer's code:** 03666823

**Reviewer's country:** Spain

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-04-18 17:15

**Reviewer performed review:** 2019-04-24 07:47

**Review time:** 5 Days and 14 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" 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 checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Excellent work . Please add comments in the discussion about other techniques used to evaluate CD activity. The following reference can be interesting: Paredes JM, Ripollés T, Cortés X, Reyes MD, López A, Martínez MJ, Moreno-Osset E. Non-invasive diagnosis



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and grading of postsurgical endoscopic recurrence in Crohn's disease: usefulness of abdominal ultrasonography and (99m)Tc-hexamethylpropylene amineoxime-labelled leucocyte scintigraphy. J Crohns Colitis. 2010 Nov;4(5):537-45. doi: 10.1016/j.crohns.2010.03.002. Epub 2010 Apr 8. PubMed PMID: 21122557.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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## PEER-REVIEW REPORT

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

**Manuscript NO:** 48242

**Title:** Quantitative diffusion-weighted magnetic resonance-enterography in ileal Crohn's disease: Systematic analysis of intra and interobserver reproducibility

**Reviewer's code:** 03025513

**Reviewer's country:** Spain

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-04-17 16:07

**Reviewer performed review:** 2019-04-27 09:12

**Review time:** 9 Days and 17 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" 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 checked="" type="checkbox"/> Anonymous
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			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The authors attempt to assess the reproducibility of measurements of ADC and signal intensity (SI) in MRE diffusion-weighted sequences, in patients with ileal Crohn's disease. The results of the study demonstrate a high intra and interobserver agreement

for signal ratio (SR) and ADC. A high accuracy of both measurements for detection of ileal inflammation (assessed endoscopically) was also demonstrated. However, there are some challenges that I would like to see assessed: (I will not comment on to the sections in which there are no objections) Methods. Page 7, lines 25-6. The definition of terminal ileum as the final 10 cm of small bowel seems quite subjective. Page 8, 16-17. The reference standard (endoscopy) is assessed qualitatively. It should have been better an assessment via an endoscopic score such as CDES or SES-CD (see below). Discussion. The authors have to accept the limitation of having subjectively evaluated the endoscopic activity. It should have been better an assessment via an endoscopic score such as CDES or SES-CD. Such an approach had also allowed the correlation between endoscopic score and ADC or SR figures. In page 11, lines 8-9, the authors state that “the measurement agreement for DW-MRE quantitative parameters has not been ascertained to date”. Considering that the figures of agreement are provided in the manuscript, the authors should have included that information in the “Conclusions” of the study. On the other hand, I miss an explanation about the poor correlation between SR and ADC ( $r=0.45$ ) in CD patients. Does the degree of possible coexistent fibrosis play any role on this differences? The different behavior, on DWI, of inflammatory and fibrous tissues has not been mentioned in the manuscript. References. The references 15 & 16, correspond to the same document, although published in two different journals.

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