

## PEER-REVIEW REPORT

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

**Manuscript NO:** 46743

**Title:** Comparison of the use of wireless capsule endoscopy with magnetic resonance enterography in children with inflammatory bowel disease

**Reviewer's code:** 02917331

**Reviewer's country:** Japan

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 13:00

**Reviewer performed review:** 2019-03-27 10:12

**Review time:** 4 Days and 21 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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 checked="" 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

This is an interesting study written by Hijaz NM et al. The authors could show the performance of Wireless Capsule Endoscopy (WCE) with Magnetic Resonance Enterography (MRE) to detect the inflammatory lesions in Children on Inflammatory



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Bowel Disease. Several revisions are needed as follows. Major comments 1. In Methods paragraph, details of PCDAI should be described. 2. Not all the enrolled patients received pathological examination. The methodology of pathological examination should be described. 3. In Results paragraph, page 8 line 2, "DC or ID" should be corrected.

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

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- ☐ No

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- ☐ Duplicate publication
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## PEER-REVIEW REPORT

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

**Manuscript NO:** 46743

**Title:** Comparison of the use of wireless capsule endoscopy with magnetic resonance enterography in children with inflammatory bowel disease

**Reviewer's code:** 04025483

**Reviewer's country:** Germany

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 07:19

**Reviewer performed review:** 2019-04-14 13:29

**Review time:** 23 Days and 6 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
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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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

In this work, Hijaz and co-workers compared the diagnostic performance of magnet resonance enterography (MRE) and wireless capsule endoscopy (WCE) for the assessment of small bowel involvement in pediatric IBD patients. For this purpose, a

total of 27 children, of which 20 had a diagnosis of Crohn's disease, were prospectively included and underwent MRE and WCE within a maximum of 7 days of each other. WCE was analyzed by two blinded readers and in 15 patients histology from the terminal ileum and the duodenum was available. For analysis WCE and MRE findings and concordance between clinical disease activity (as assessed by the PCDAI) and histology was assessed. As their major finding, the authors found a sensitivity of MRE and WCE of 100% and 83% and a specificity of MRE and WCE of 57.14% and 78.6% for diagnosis of small bowel involvement in CD patients with clinical disease activity (PCDAI>10) Further, if the histology in ileum or/and duodenum was used as the reference for active small bowel involvement, WCE had a higher specificity as compared to MRE (83.3% vs. 50%) and WCE had an excellent concordance between the different readers. Minor concerns 1. The authors state that a PCDAI of >10 was used as an indicator for small bowel involvement. Can the authors provide some data/references to support their assumption that PCDAI>10 is indeed a marker of SB involvement and not only of disease activity in general (irrespective of disease location) 2. The manuscript would benefit from figures showing a) concordant findings between WCE and MRE and b) disparate findings between MRE and WCE (e.g. positive MRE and negative WCE and also negative MRE but positive WCE). Please add.

#### INITIAL REVIEW OF THE MANUSCRIPT

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