

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57306

Title: Motility index measured by MR enterography is associated with sex and mural thickness

Reviewer's code: 02729532

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Sweden

Manuscript submission date: 2020-06-12

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-07-05 08:53

Reviewer performed review: 2020-07-07 05:46

Review time: 1 Day and 20 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input 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



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SPECIFIC COMMENTS TO AUTHORS

The authors hypothesized that MI(Motility index) could be used to identify enteric neuromuscular pathology in patients with gastrointestinal symptoms. To test this hypothesis, they consecutively included all patients undergoing MRE during a 2-year period and evaluated the use of MRI to assess motility. Consecutive adult patients who were referred for MRE during a 2-year period were included as cases while healthy volunteers were included as controls. MI of the terminal ileum measured by MR enterography was found to be inversely associated with mural thickness, especially in males. In females, diarrhea was inversely associated with MI of jejunum, while constipation was positively associated with MI of terminal ileum. The research is well crafted and executed. Also, the manuscript is well written and follows a logical sequence. The study limitations include the single center setting and the failure to consider the influence of medical treatment on the disease. The study can act as a basis for future research in this field.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57306

Title: Motility index measured by MR enterography is associated with sex and mural thickness

Reviewer's code: 03252328

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Sweden

Manuscript submission date: 2020-06-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-15 03:17

Reviewer performed review: 2020-07-07 23:52

Review time: 22 Days and 20 Hours

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 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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input 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

This is an observational, cross-sectional study to assess the use of the MI for assessment of the small bowel motility in the patients with IBD or other intestinal disorders. Of particular note, the study examined the association between the MI and basal characteristics and gastrointestinal symptoms independent of the diagnosis. The data presenting in this study showed that there was a negative association between MI of the terminal ileum measured by MR enterography and mural thickness, especially in men. The observations indicate that MI is useful for determining altered motility patterns in addition to morphological MRE changes and clinical characteristics. Generally, this is an interesting study that presents valuable findings on the use of MR in assessing small bowel motility in clinical practice. Major concerns: (1) In the current version, no information on the disease activity of the patients (CD and UC) was provided. It is encouraged to identify whether MI measured by MR is associated with the disease activity of the patients (CDAI, etc.) (2) Except for CD, the case number of several other diseases, for example UC and dysmotility, was very small. (3) An additional paragraph should be add in the last of the "Discussion" section to present the conclusion of this study.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57306

Title: Motility index measured by MR enterography is associated with sex and mural thickness

Reviewer's code: 02729532

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Sweden

Manuscript submission date: 2020-06-12

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-08-06 10:45

Reviewer performed review: 2020-08-06 11:01

Review time: 1 Hour

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

SPECIFIC COMMENTS TO AUTHORS

The authors hypothesized that Motility index could be used to identify enteric neuro-muscular pathology in patients with gastrointestinal symptoms. To test their hypothesis, they consecutively included all patients undergoing MRE during a 2-year period and evaluated the use of MRI to assess motility. Consecutive adult patients who were referred for MRE during a 2-year period were included as cases while healthy volunteers were included as controls. Motility Index of the terminal ileum measured by MR enterography was found to be inversely associated with mural thickness, especially in male patients. In females, diarrhea was found to be inversely associated with MI of jejunum, while constipation was positively associated with MI of terminal ileum. The research seems well crafted and executed. Also, the manuscript has been well written and follows acceptable logical sequence. The study limitations including the single center setting and the failure to consider the influence of medical treatment on the disease have been mentioned by the authors. I feel the study can act as a basis for future research on this topic.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 57306

Title: Motility index measured by MR enterography is associated with sex and mural thickness

Reviewer's code: 03252328

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Sweden

Manuscript submission date: 2020-06-12

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-08-05 03:08

Reviewer performed review: 2020-08-09 09:45

Review time: 4 Days and 6 Hours

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript has been revised according to the reviewer's comments. And the concerns raised by the reviewer have been well addressed.