

PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

Manuscript NO: 40424

Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 03721686

Reviewer's country: Romania

Science editor: Fang-Fang Ji

Date sent for review: 2018-06-24

Date reviewed: 2018-06-25

Review time: 1 Day

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 checked="" type="checkbox"/> Grade D: Fair	<input checked="" 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

The authors have tried to make advances in gastrointestinal tumors imaging by investigating intravoxel incoherent motion diffusion-weighted MRI (IVIM) which is



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supposed to bring more detailed information regarding the assessment of response to chemotherapy. In addition, they specifically focused on the hypothesis that important IVIM derived biomarkers could reflect the microenvironment, microcirculation in the capillary network and diffusion in tumor tissues, without any contrast agent intravenous administration. Although this work is of significant interest to the field, and, obviously, further research on this topic should be encouraged, there are important concerns that could be addressed in the next version. These are outlined below. Major concerns: In Abstract- the phrase- In the previous studies, the sensitivity and specificity of these parameters used in the evaluation of GTs is different and the role of the IVIM in the GTs is discrepant. Some studies even negate IVIM's important role in GTs.- is ambiguous and should be detailed in the manuscript and supported by specific references. Other phrases are also ambiguous (E.g. page no 10- But in a report by Kim et al[44], in patients with liver metastasis...) and should be reconsidered in order to have a logical flow. Page 7-8- In the paragraph- In a report including 25 consecutive patients with advanced rectal carcinoma... the language is unclear, making it difficult to follow as well as the reference is not evident. The same for page 10- But in a report by Kim et al[44], in patients with liver metastasis from(CRC treated with... for metastasis from CRC. In general, the manuscript needs significant editing for language and writing quality, therefore, I advise the authors work with a writing coach or copyeditor to improve the flow and readability of the text. The Conclusion does not offer entirely a concise summary of the hypotheses and of main results from the manuscript. Authors should also reflect upon and address possible limitations of the techniques in the debated area. Regarding Figure no 1- HE staining image should be explained in conjunction with disease characteristics and IVIM findings. Image of calculated MVD and its value in correlation with IRM parameters should be added to emphasize that f and D* correlated positively with MVD, as stated in the text. (The same regarding HE staining image in

Figure no 2). Finally, to me it seems that vascular enhancement is not evident in Figure no 2- image E, as pointed previously by the white arrows, but I must admit that I am not confident about this, as this part of the work is out of my area of expertise. Minor concerns Moreover, the paragraph- Encouragingly, based on the IVIM technique, more precise and effective parameters emerged in GTs, such as αpCR after CRT- seems more suitable to the Colorectal related part.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

Manuscript NO: 40424

Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 02445585

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2018-07-02

Date reviewed: 2018-07-02

Review time: 18 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" 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 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 manuscript by Zuo, et al updates the new functional MRI technique, intravoxel incoherent motion (IVIM), in gastroenterological tumors. This is an important imaging

technique that benefits patients and this mini review would have broad interest to basic and clinical cancer works.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ Plagiarism
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PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

Manuscript NO: 40424

Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 00183086

Reviewer's country: Greece

Science editor: Fang-Fang Ji

Date sent for review: 2018-07-02

Date reviewed: 2018-07-03

Review time: 1 Day

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
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		<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 a very interesting article with regard to pre-operative evaluation of tumors of GI tract. Nevertheless, the structure of the article is not well provided. The Abstract is



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totally without structure and the aim of the study is not clear. The Introduction section should be reduced. Information included in manuscripts should be removed to the Discussion section. Please clarify the aim of the survey. Specific analysis of the Imaging technique is warranted. Since the study is a narrative review results provided by newly published investigations should be summarized. Comparative analysis of relevant comments is implemented instead of results' description. Newly published references should be added. Grammatical errors should be corrected.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ [Y] No

BPG Search:

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- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

Manuscript NO: 40424

Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 03475120

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2018-07-02

Date reviewed: 2018-07-12

Review time: 10 Days

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 checked="" 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 type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This paper is well written. However, there are a lot of lousy typing (e.g., 'a'). English language should be checked by English consultant.



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- ☐ [Y] No

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Name of journal: World Journal of Radiology

Manuscript NO: 40424

Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 03721686

Reviewer's country: Romania

Science editor: Fang-Fang Ji

Date sent for review: 2018-08-08

Date reviewed: 2018-08-13

Review time: 5 Day

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
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
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SPECIFIC COMMENTS TO AUTHORS

Regarding the revised manuscript and authors' answers, I am satisfied with the improvement.



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Title: Could intravoxel incoherent motion diffusion-weighted magnetic resonance imaging be feasible and beneficial to the evaluation of gastrointestinal tumors histopathology and the therapeutic response?

Reviewer's code: 00183086

Reviewer's country: Greece

Science editor: Fang-Fang Ji

Date sent for review: 2018-08-08

Date reviewed: 2018-08-08

Review time: 8 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:
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		<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

After assessing carefully the revised version of the manuscript as well as the response to reviewers' comments I would like to verify that the authors have addressed to my



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remarks point by point in the response letter and I am satisfied with the improvement of their survey. Therefore, the article could be accepted for publication in its current for.

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BPG Search:

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- ☐ No