

## PEER-REVIEW REPORT

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

**Manuscript NO:** 74629

**Title:** Application of intravoxel incoherent motion diffusion-weighted imaging in hepatocellular carcinoma

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05429043

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-28 06:06

**Reviewer performed review:** 2022-01-28 06:39

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
<https://www.wjgnet.com>

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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### **SPECIFIC COMMENTS TO AUTHORS**

Application of intravoxel incoherent motion diffusion-weighted imaging in hepatocellular carcinoma describes an imaging biomarker for HCC differentiation, pathological grading, and treatment response prediction and evaluation, prediction of postoperative recurrence and gene expression prediction. It is an interesting article. A few concerns are the following How it is different from the following article? "Progress of intravoxel incoherent motion diffusion-weighted imaging in liver diseases" have you cited the article ? All the figure legends need to be modified . Clarity should be with 300dpi. The alignment in one frame as A,B<C etc in horizontal manner to make it more legible arrangement Specify the rationale for choosing the patients with 85 and 35? The review looks good if you mention the duration of study collected for the topic. A graphical abstract will be good to depict the concept clearly Add more details specific to the technique regarding the its use as diagnosis and therapy The conclusion need to be elaborated with more aspects of its application

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**Peer-review model:** Single blind

**Reviewer's code:** 03009765

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** Croatia

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** Xin Liu

**Reviewer accepted review:** 2022-02-28 09:40

**Reviewer performed review:** 2022-03-04 09:49

**Review time:** 4 Days

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Peer-reviewer  
statements**

Peer-Review: [ ☐ ] Anonymous [ ☒ ] Onymous

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

### **SPECIFIC COMMENTS TO AUTHORS**

As research on IVIM-DWI in HCC increases, the authors of this review wrote a paper on the principle of IVIM-DWI and its progress in HCC differentiation, pathological grading, and treatment response prediction and evaluation, prediction of postoperative recurrence and gene expression prediction. The topic is interesting and current. The authors showed that IVIM-DWI can accurately reflect tissue structures and has important application value for HCC differentiation. The results of this paper show that IVIM-DWI has important application value in the treatment and diagnosis of HCC. The main limitation of the studies done is the small number of patients, which requires further studies with larger series to reach a consensus on all parameters, but I think this review paper can help clinicians in everyday practice, especially clinicians who face problems in accurately diagnosing and treating HCC.

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**Peer-review model:** Single blind

**Reviewer's code:** 03259131

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Surgeon, Surgical Oncologist

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** Xin Liu

**Reviewer accepted review:** 2022-02-24 02:03

**Reviewer performed review:** 2022-03-06 15:26

**Review time:** 10 Days and 13 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

Review comments WJG-74629\_reviewer It is my great honour and pleasure to review such an interesting manuscript. The authors review the principle of intravoxel incoherent motion diffusion-weighted imaging (IVIM-DWI) and its progress in hepatocellular carcinoma (HCC) differentiation, pathological grading, and treatment response prediction and evaluation, prediction of postoperative recurrence and gene expression prediction. This study is a narrative review. Although there have been some similar reports, this study provides an important contribution to pathophysiological diagnosis of HCC. Above all, this study is well-designed. I agree the authors' insistence. This manuscript is well-written and illustrated. Basically, I have no major criticisms on the description. As a review article, the collected literatures are a little older. At least, the authors should discuss by referring the newest trials and reports. This review is interesting and important. However, the present manuscript needs some revisions for the publication of "World Journal of Gastroenterology".

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

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**Reviewer's code:** 05429043

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** Han Zhang

**Reviewer accepted review:** 2022-05-02 04:24

**Reviewer performed review:** 2022-05-02 04:41

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

No comments



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**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** Han Zhang

**Reviewer accepted review:** 2022-05-01 14:51

**Reviewer performed review:** 2022-05-02 05:56

**Review time:** 15 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

#### **SPECIFIC COMMENTS TO AUTHORS**

Review comments WJG-74629\_R1, reviewer. It is my great honour and pleasure to review the revised version. I appreciate the authors' labors to answer the inquiries of the "Editorial Board", point by point. Above all, I have no major criticism on the final version. There are some limitations in this study. However, this study is the frontier work in this area and the results are clinically important. I hope this manuscript will be suitable for the publication of "World Journal of Gastroenterology".