

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 73090

**Title:** Preoperative prediction of malignant potential of 2-5 cm gastric gastrointestinal stromal tumors by computerized tomography-based radiomics

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06129255

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-12-01

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-06 10:46

**Reviewer performed review:** 2021-12-17 10:47

**Review time:** 11 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 Grade E: Do not publish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 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="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**

GISTs are clinically heterogeneous and may have different degrees of malignant potential. Therefore, preoperative evaluation of the biological behavior of GISTs is important for surgical decision-making. Based on mitotic counts, several risk stratification systems have been proposed to assess the recurrence risk after complete resection of primary GISTs. Many studies have indicated that radiomics features can be used to comprehensively assess the biological behavior of malignant cells, improving the accuracy of diagnosis, prognosis, and prediction. In this study, the authors developed a CT-based radiomics for predicting the malignant potential of primary 2-5 cm gastric GISTs. The study is very well designed. The methods are clearly described. Results are important and well discussed. Minor Comments: 1. The manuscript requires a minor editing. Some minor language polishing should be corrected. 2. Tables and figure should be moved to the end of the text. 3. References are updated, but an editing is required.

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**Academic degree:** MD

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

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<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
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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <b>Y</b> ] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [ <b>Y</b> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

Exploring the association between CT features and GISTs risk stratification may influence the surgical treatment decision for 2-5 cm gastric GISTs. This study proposed a radiomics method for predicting the malignant potential of 2-5 cm gastric GISTs by preoperative enhanced CT images. The study is very interesting, and the results are well discussed. A minor editing is required.

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**Peer-review model:** Single blind

**Reviewer's code:** 06129230

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

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<b>Scientific quality</b>	<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
<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 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



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

An interesting study about the Ct and GIST. The manuscript is very well written. The reviewer recommends to accept this manuscript after a minor language editing.