

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 89690

Title: GLUT-1 expression in preoperative endoscopic biopsy is helpful for detecting lymph node metastasis on 18F-FDG-PET/CT in colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05771605

Position: Peer Reviewer

Academic degree: MBBS, MPhil, PhD

Professional title: Doctor, Professor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: South Korea

Manuscript submission date: 2023-11-09

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-12-11 04:23

Reviewer performed review: 2023-12-11 04:37

Review time: 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 type="checkbox"/> Yes <input checked="" 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 interesting study on the diagnostic value of GLUT-1 expression for lymph node metastasis in colorectal cancer. Similar results have been reported previously: Yang J, Wen J, Tian T, Lu Z, Wang Y, Wang Z, Wang X, Yang Y. GLUT-1 overexpression as an unfavorable prognostic biomarker in patients with colorectal cancer. *Oncotarget*. 2017 Feb 14;8(7):11788-11796. doi: 10.18632/oncotarget.14352. PMID: 28052033; PMCID: PMC5355304. The authors may look to include more recent work in their discussion: AUTHOR=Kim Tae Hyun, Kwak Yoonjin, Song Changhoon, Lee Hye Seung, Kim Duck-Woo, Oh Heung-Kwon, Kim Jin Won, Lee Keun-Wook, Kang Sung-Bum, Kim Jae-Sung TITLE=GLUT-1 may predict metastases and death in patients with locally advanced rectal cancer JOURNAL=Frontiers in Oncology, VOLUME=13, YEAR=2023 URL=<https://www.frontiersin.org/articles/10.3389/fonc.2023.1094480> DOI=10.3389/fonc.2023.1094480 ISSN=2234-943X

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Reviewer's code: 02935012

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Assistant Pharmacist

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2023-11-09

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-12-13 13:58

Reviewer performed review: 2023-12-17 09:18

Review time: 3 Days and 19 Hours

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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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

Hongsik K et al. conducted a study to detect the expression of GLUT-1 in preoperative endoscopic biopsy and explored its usefulness in predicting detecting lymph node metastasis on 18F-FDG-PET/CT in colorectal cancer. The study was interesting; however, it includes required features. Major concern: Are there any evidence for the positive criteria determination for GLUT-1, GLUT-3, HK-II, and HIF-1 expressions? A scale in all the images in figure 1 would be appreciated. How to define the center and periphery in biopsy samples in this study? Is there any evidence that N3 (Table 1, 3-5) was presented in AJCC/UICC staging system? Many previous studies indicated a negative correlation of GLUT-1 with SUVmax in various malignancies including gastric cancer, pancreatic cancer, lung cancer; however, the authors detected a positive correlation of them in this study. The underlying reasons should be profoundly discussed. Representative images for GLUT-3, HK-II, and HIF-1 expression could be supplied. Some statements in the paper lack of references supporting, for example: "...Studies have evaluated the correlation between the expression of several proteins..."