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PEER-REVIEW REPORT

Name of journal: World	Journal of Gastrointestinal S	Surgery
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Manuscript NO: 86056

Title: Comparative detection of syndecan-2 (SD) methylation in preoperative and

postoperative stool DNA in patients with colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02567654 Position: Peer Reviewer Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: South Korea

Manuscript submission date: 2023-06-08

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-25 13:18

Reviewer performed review: 2023-07-03 15:41

Review time: 8 Days and 2 Hours

	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
	[] Grade A: Excellent [Y] Grade B: Good [] Grade C:
Novelty of this manuscript	Fair
	[] Grade D: No novelty



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Creativity or innovation of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No creativity or innovation	
Scientific significance of the conclusion in this manuscript	[] Grade A: Excellent [] Grade B: Good [Y] Grade C: Fair [] Grade D: No scientific significance	
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection	
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection	
Re-review	[]Yes [Y]No	
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [Y] Yes [] No	

SPECIFIC COMMENTS TO AUTHORS

The authors have measured methylated SDC2 from stool samples in patients with colon cancer before and after surgical treatment. The pre-operative sensitivity was 88.6%. Sensitivity was less for early-stage disease. The post-operative test positivity rate was about 20%, higher in women. None of these false positives had recurrence. Of the 6 recurrences in 46 months of follow up, none were SDC2 positive in the post-operative sample. The data indicate that the source of SDC2 in the pre-operative sample was likely of tumor origin. The authors concluded that these observations support a use case of methylated SDC2 in post-operative surveillance. However, the impact of this application is likely low due to the high post-operative false positive rate and a lack of prediction of recurrence. It therefore seems highly unlikely that SDC2 methylation would disrupt surveillance colonoscopy for CRC survivors, who remain at risk for advanced precancers, metachronous new CRC, and less often recurrence of the primary cancer. Study



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strengths include: • Relatively large sample size (104 patients) • Clear study flow diagram (Fig 1) • Clear definitions of positive and negative test thresholds Addressable weaknesses include: • Lack of 95% confidence intervals around sensitivity and specificity estimates • Blank STROBE checklist (should indicate where in the manuscript the items are reported) • Missing X- and Y- axis values and legend for Fig 2 • Reporting of blinding for laboratory test operators • Lack of clear statement of involvement of Genomictree, Inc by whom 2 of the authors are employees and who markets a methylation-based CRC screening test



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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastrointestinal S	Surgery
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Manuscript NO: 86056

Title: Comparative detection of syndecan-2 (SD) methylation in preoperative and

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Peer-review model: Single blind

Reviewer's code: 02567654

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: South Korea

Manuscript submission date: 2023-06-08

Reviewer chosen by: Han Zhang

Reviewer accepted review: 2023-07-17 13:24

Reviewer performed review: 2023-07-17 13:34

Review time: 1 Hour

Scientific quality	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [] Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The authors have responded to all points in my initial review.