

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 83335

Title: Primary Animal Experiment to Test the Feasibility of a Novel Y-Z Magnetic Hepatic Portal Blocking Band

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03699961

Position: Associate Editor

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-01-20

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-20 22:29

Reviewer performed review: 2023-02-21 14:12

Review time: 15 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☐ Grade A: Excellent ☒ 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 ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☒ 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) ☐ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

Title: Primary Animal Experiment to Test the Feasibility of a Novel Y-Z Magnetic Hepatic Portal Blocking Band Miao-Miao Zhang, Chen-Guang Li, Shu-Qin Xu, et al. 1)

General Comments In this manuscript, the authors developed a novel device utilizing magnets to place a temporal ligation on the portal vein during a laparoscopic hepatectomy and evaluated the efficacy of it in animal experiments with dogs. In the results, there were no inferiority against the standard taping procedure in terms of the operation time, intraoperative blood loss, and the number of occlusions of portal flow. On the other hand, the total and average times spent on adjusting the blocking band significantly shorten with aid of the magnetic device. The device can be prepared by using common rubber tubes and magnetic balls. It is inexpensive and ready to use in clinic after ethylene oxide sterilization. Although the safety and efficacy must be confirmed in clinical trials, the device reported in this manuscript is promising to replace the conventional procedures.

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Reviewer's code: 05061299

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2023-01-20

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-22 09:37

Reviewer performed review: 2023-03-03 01:02

Review time: 8 Days and 15 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
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	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

1. Line 103: the meaning of the 3R principle should be detailed. 2. Line 111: explain the composition referred as N45 sintered NdFeB. 3. Line 114: The acronym GS should be clarified by specifying that it refers to the caegesimal system of gaus units. 4. Lines 119-124: That section of M and M should be explained more properly.