

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 83544

Title: Contributory Roles of Sarcopenia and Myosteatorsis in Development of Overt Hepatic Encephalopathy and Mortality After Transjugular Intrahepatic Portosystemic Shunt

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05409220

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Surgeon

Reviewer's Country/Territory: Slovenia

Author's Country/Territory: China

Manuscript submission date: 2023-01-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-06 06:37

Reviewer performed review: 2023-02-10 07:30

Review time: 4 Days

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|-----------------------------------|--|
| 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 Grade E: Do not publish |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 checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty |

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|---|--|
| Creativity or innovation 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 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input checked="" type="checkbox"/> Yes <input 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

Dear authors, I congratulate you on a very well researched and excellently written paper. I have next to no comments, disagreements or modification suggestions. This paper was a joy to reivew!

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02353723

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2023-01-29

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Reviewer accepted review: 2023-02-13 10:29

Reviewer performed review: 2023-02-13 13:06

Review time: 2 Hours

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|-----------------------------------|--|
| 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 |
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| | Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

The study of Yin et al. analyzed the contribution of Sarcopenia and Myosteatorsis in Development HE after TIPS. It is a well written article, but its contribution as novelty is limited. In addition, there are some aspects that require attention. Specific comments

In the title it is not mentioned the effect on survival. Core tips Lines 40-42: change “sarcopenia and myosteatorsis” with “sarcopenic and myosteatorotic” or it would be better to rephrase the entire sentence. Line 44: muscle mass attenuation is first mentioned without an explanation. Abstract Lines 47-48: the definition of sarcopenia in cirrhotics is still under debate. In general, sarcopenia is defined as a reduction of muscle mass and strength. I would suggest using muscle mass depletion instead of sarcopenia. Line 53: here it is reported that for the study “records of cirrhotic patients who underwent the TIPS procedure” were used. However, in the material and methods section, the data are presented as prospective. Line 57: change “are” with “were” Line 58: “The area under

curve (AUC) represented the test discriminative power..." should be changed with "The area under curve (AUC) represented the test to evaluate the discriminative power.."

Line 62: it is mentioned mortality, but it is not reported in the results. Materials and Methods Line 132: why only patients with history of HE grade ≥ 2 are considered? Why not grade 1? Line 167-8: Usually normalization is obtained by dividing the parameter under evaluation for squared units (See your reference 35, <https://doi.org/10.1007/s00268-022-06868-4>). Results Line 261: for the calculation of survival, you should have used different TPMT values since your cut-off, which are reported by Paternostro et al. (ref. 11), were adopted for low muscle mass and not for survival. Discussion Line 310: change "contribute to" with "reduce" (see 10.3389/fnut.2022.1051157) Contribution to the field statement Line 383: put space "to detoxify".