PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 84120

Title: Associations between Borg's rating of perceived exertion and changes in urinary organic acid metabolites after outdoor weight-bearing hiking

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06143697

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2023-03-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-10 03:28

Reviewer performed review: 2023-03-13 01:47

Review time: 2 Days and 22 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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 [Y] Grade C: Fair [ ] Grade D: No novelty
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 [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] 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	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Title: accurately reflects the topic and contents of the paper. Abstract: is appropriate, structured, 323 words. Key words: 6 key words, precisely define the content of the paper. Core tip: 97 words, reflects the main contents of the article. Introduction: 459 words, the reader is acquainted with some known facts about Borg's Rating of Perceived Exertion, and the exercise load and evaluate body fatigue in time in endurance training. The purpose of the study was to verify whether the BRPE could be used in the prescription of outdoor hiking with weight-bearing and reveal the relationship between the BRPE scale and urine physiological measures. Methodology: 676 words, the description of the methodology is divided into subsections, the statistics used is appropriate. Results: 571 words, the description of the results is updated with 3 tables and 7 figures. At the end 89 healthy young men were analyzed. Discussion: the discussion/analysis presents studies published in the recent past, which touch on mechanisms concerned about body fatigue and metabolism disorders. The authors also draw attention to several limitations of the study. Conclusion: 55 words, last paragraph, the authors conclude, that BRPE scale showed strong correlation with the change of urine organic acids, which could be used

to monitor body fatigue in long distance outdoor hiking with weight bearing. References: 22 references, from 1972 (Eur J Clin Invest) – 2022 (Front Public Health), influential journals in this field. Conflict of interest: all authors declared that they have no conflicts of interest to this work. Study ethics: the Institutional Review Board (IRB) of Chinese PLA General Hospital Review Board has reviewed the protocol and has determined that this study is exempt from full IRB review and informed consent. Opinion of the reviewer in its present form, the manuscript is suitable for publication. There is no doubt that this study supplements data that reveal the relationship and validity of the BRPE with objectively assessed metabolic criteria, particularly the urine organic acid concentration.

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Peer-review model: Single blind

Reviewer's code: 06086664

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2023-03-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-13 01:30

Reviewer performed review: 2023-03-14 08:59

Review time: 1 Day and 7 Hours

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

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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

1-this topic is interesting, but there are some limitations to this research. These limitations are mentioned at the end of the manuscript. 2- Each abbreviation needs to be given its full name when it first appears. 3- can you write the degree of freedom with each p-value. Also, can you mention the effect size of each statistical test? 4- The reference list requires revision; parts of it are not consistent with the guidelines of the journal and DOIs/PMIDs are not given. 5- Some spelling errors need to be corrected, for example, "seperating" on page 2, line 21 should be "separating". Please check the full text carefully.