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OPEN PEER REVIEW

Effect of a Prolonged Maximal Bout of Exercise on Visual Performance

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

2 comments · 27 Oct 2021 – 2 Nov 2021

Referee 1 Reviewer

MINOR REVISION 27 Oct 2021

Dear author,
I read your paper with interest, and here are my comments to help improve its quality.

Abstract: Please summarize the background and add more details to the methods.
Introduction: Please add more relevant references and focus on your main aim.
Please let us know your hypothesis as well.
Methods. The sampling method is missing.
I am not sure how you controlled the intervention or how you ensured the accuracy of the data you collected.
We need more details regarding supervision and monitoring.
Results: This section seems OK.
Discussion. It is too short and lacks sufficient critical comparison.

Regards

Referee 2 Reviewer

MAJOR REVISION 2 Nov 2021

Comments of the paper
Abstract
-In the results: Please check an example from the journal for reporting the P value in the sentence “visual memory between pre-test and after the aerobic treatment (p = 0.000 for all measures).”
Introduction
-In the sentence “This may be so since running may require more active control of attention”, please provide details about running. Which kind of running did they use?
-Please clarify the novelty of the current study.
Methods :
It is necessary to provide a flowchart of the protocol and participants.
Precudure
Who assessed and worked with the participants? Were they blinded to the evaluation and intervention?
intervention
Based on which criteria did you choose the basis of the training?
Please clarify the details of the protocol for each session in both groups.
results :
In the sentence “In turn, the TRE were heterogeneous for accommodation facility (p = 0.000) and saccadic eye movement (p = 0.000),” please check an example from the journal for reporting the P value.
Discussion
I did not see any mechanism to explain the results obtained.
What is the strength of the study?

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Effect of a prolonged maximal bout of exercise on visual performance by Shaw et al.

Reviewer 1 Comments (Highlighted in blue)	**Author Response**
I read the manuscript with interest and the topic and writing are now being improved and accepted. Although it is better to write the abstract part in a different way from the main text, it is acceptable.	Noted

Reviewer 2 Comments (Highlighted in yellow)	**Author Response**
Abstract: Please summarize the background and add more details to the methods.	- Background summarized - More detailed description of methods added
Introduction: Please add more relative references and focus on your main aim.	More relative references added. Much improved. Thank you.
Please let us know your hypothesis as well.	Hypothesis included at the end of Introduction
Methods. the sampling method is missing.	Sampling method included in first line of section *3.1. Participants*
I am not sure how you have controlled the intervention and how you are sure about the accuracy of your collected data. We need more details regarding supervision and monitoring.	Control and accuracy of data included in section *3.2. Procedures*
Results: this section seems ok.	Thank you
Discussion. It is too short and there is a lack of enough critical comparison.	Discussion expanded and additional critical comparisons included

Reviewer 3 Comments (Highlighted in green)	**Author Response**
Abstract - In result: Please check the sample of the journal to report P value in the sentence “visual memory between pre-test and after the aerobic treatment (p = 0.000 for all measures).”	P values corrected to reflect those of journal.
Introduction - In the sentences “This may be so since running may require more active control of attention”, please metion to detail of running , which kind of running do they use?	Detail of running included in *Introduction* as requested.
Introduction - please clear the novelty of the current study	Novelty and importance of study enhanced at end of section *1. Background.* Much improved. Thank you.
it is nessesory to write a flow chart about the method of the protocol and particpants Precudure	CONSORT flow diagram of study included as *Figure 1*
who assessment and work on participant , Do they blind to evaluation and intervention ? intervention	Single-blinding detail included in first line of section *3.2. Procedures*
Methods - based on which criteria , you choose the base of training ? please clear detail of protocol in per session in both group	Criteria for selection of incremental treadmill protocol included in section *3.3. Intervention*. Additional detail on protocols for both groups included in *3.3. Intervention*.
Results - in the sentences “In turn, the TRE were heterogeneous for accommodation facility (p = 0.000) and saccadic eye movement (p = 0.000),” Please check the sample of the journal to report	P values corrected to reflect those of journal.

Pvalue.	
Discussion - I did not see any mechanism to determine the gained results	Possible mechanisms included in section *5. Discussion*. Much improved. Thank you.
Discussion - what is the strength of the study ?	Strengths of study included as last paragraph in section *5. Discussion.* Much improved. Thank you.

2 Revision 1

1 comment · 13 Nov 2021

Ardalan Shariat Reviewer

ACCEPT 13 Nov 2021

Greetings,
I am happy about this revised version and it is acceptable in its current form.