

Model for Manuscript Review

Research articles

Manuscript title:

Peerj-65033 - Impact of climatic conditions projected at the World Cup in Qatar 2022
on repeated maximal efforts in soccer players

Title	
Is it understandable and concise?	(x) Yes () Not
Reflects the content?	(x) Yes () Not
Abstract	
It includes: objectives, methodology, key findings and conclusions?	() Yes (x) Not
Introduction	
The investigation was carried out in a suitable theoretical structure?	() Yes (x) Not
Clear leaves the questions you want to answer and objectives of the work?	() Yes (x) Not
The cited references are current and relevant?	(x) Yes () Not
Methods	
The methods presented are appropriate to achieve the proposed objectives?	() Yes (x) Not
The selection and composition of the sample are adequately described?	() Yes (x) Not
The data collection process and the tools used are described clearly?	() Yes (x) Not
The statistical analysis and the research design appropriate?	() Yes (x) Not
Results	
The presentation of the results clear?	() Yes (x) Not
The main results are highlighted without the inclusion of interpretation and comparisons?	() Yes (x) Not
The results evaluate the proposed objectives?	(x) Yes () Not
Tables and figures are properly numbered, labeled and explained?	() Yes (x) Not
Discussion and Conclusion	
The results are discussed based on the literature?	() Yes (x) Not
Author's interpretations show the safety and soundness?	() Yes (x) Not
The limitations of the work are presented?	() Yes (x) Not
The conclusions of the study are presented?	(x) Yes () Not
The conclusions respond to the objectives?	() Yes (x) Not

General comments:

Title

Are presented satisfactorily.

Abstract

a) It is well written, however, it should have more absolute values found in the results and not just statistical values.

b) Some Keywords should be revised, considering the descriptors in health sciences, and even the objective of the study and change to soccer. Still other words are out of the health descriptors.

Introduction

a) This is very extensive, and on the other hand methodologically explains some points that should this in methodology and not in the introduction.

- b) The introduction is not starting from general to specific. It should initially present a more general approach and gradually address the problem (gap) and then present the objective.
- c) The problem should be better identified, for example, evaluating the temperature in other world cups and confronting it with the athletes' performance would be a possibility.
- d) Initially, suggest that the introduction have a paragraph with a contextualization of the self that will be done. Two with the scientific context of what will be done in the study, one for the identification of the gap, problem, clearly in the light of other studies, and a paragraph for the objectives and hypotheses raised by the study.

Methods

- a) It should present more clearly the design of the study. A CONSORT or a timeline, should be presented in order to get a better view of the study design.
- b) The experimental approach to the problem, in this item, an analysis of temperatures should be better explained, through a five-year historical analysis of the temperatures at the place of departures on the expected date, and also presentation of relative air humidity values, among others. That way we would have a more realistic comparison and indication of what can happen.
- c) Thus, some questions are presented, how were the parameters for the proposed tests raised and also in the climatic conditions presented?
- d) How the number of 24 athletes was reached, please explain. Was any program used to determine this number? If not, it should be justified through statistical calculations, such as the use of power, CV, among others.
- e) What are the inclusion and exclusion criteria used? How the data control was performed as a function of the position in which the players act. For example, how to compare a goalkeeper with a winger?
- f) In the procedures and mechanical parameters, an ergometer cycle was used, however, players will be compelled to running activities, how to explain this? Would the same results for players be evaluated in cycle ergometer, instead of field activities through running?
- g) Statistical treatment should be better detailed in order to better follow what has been done. There should be a justification for the use of the normality test used, the measures of central tendency $\bar{X} \pm SD$, and ICC 95% should be used, and in the test

there should be Post Hoc discretion, degrees of freedom, and effect size in the Minimum. Please consult Cohen (1988).

Results

a) Tables have a life of their own, so everything in tables must be understood in the context of the table. Please improve the presentation of results, their explanation and mention all abbreviations in each of the tables.

b) Observe what was mentioned in the methodology in relation to statistics.

c) Go deeper into the explanation of the results.

d) A comparison between normal conditions and those foreseen for the Qatar Cup would be viable, since normal conditions can give an irrelevant connotation. Justify, or put in the discussion on study limitations.

Discussion

a) The discussion, in my view, was limited to presenting studies for and against without, however, trying to explain the main findings.

b) Some of the results found are contrary to other studies that addressed the topic. Please check <https://doi.org/10.1080/23328940.2017.1356427>, because despite the author being cited five times, the mentioned manuscript is more current and would help a lot in the work.

c) I think the discussion could be expanded further to better justify the findings.

d) The limitations presented in a timid way.

e) There should be a review in the study and change the term football to soccer throughout the text.

Conclusion and Practical Application

Are presented satisfactorily. However, due to some points presented in the review, it would be prudent to review and still try to justify the use of the tests in relation to the real game situation.

References

Of the 41 references, 29 have been published for more than five years. Suggests it be updated. The formatting of some should be revised.

Overview

The manuscript presented addresses a relevant research topic.

It would be advisable to do a general review.

Specific comments and suggestions:

Outcome evaluation

- Accept unchanged ()
- Accepted with minor changes ()
- Accepted with major changes (x)
- Rejected ()