

Sports Medicine and Rehabilitation

Review Report

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Article Title: Balance of Substrates at Exercise in Athletes: Lipodependent vs Glucose-dependent Sports

Reviewer: Esra Giray, Marmara University School of Medicine, Turkey

Submission Date: June 24, 2017

Review Status: Revision Required

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Review Report

Abstract

- Please re-order the keywords into an alphabetical order.

Statistical analysis

- Methods name of the descriptive statistics should be added to statistical method paragraph.
- Did normal distribution assumption checked before the analysis? Please add if the data of the outcome measures were normally distributed. You mentioned that groups were compared using Kruskal Wallis test then you should explain that the data was not normally distributed and you should explain which test you used for distribution analysis.
- If Kruskal Wallis test was used, information about median and maximum, minimum values, should be added in the tables and those information should be written in the statistical method of the study. Mann-Whitney U test must be performed to test the significance of pairwise differences using Bonferroni correction (post-hoc test) to adjust for multiple comparisons. For Bonferroni correction, a p value ($0.05/\text{number of comparisons}$) must be determined as the level of statistical significance.
- Please give your results in tables. In academic articles tables are a superior method of expression than figures.

Results

- Are there significant differences for gender among the studied groups? Please add this information.
- You should add p values.

Discussion

- Please add reference for the sentence: “..but it is clear that a large body of evidence shows that endurance athletes oxidize more lipids at exercise and that this oxidation peaks at a higher %VO₂max than sedentary subjects.”
- You must discuss the weaknesses and strengths in your study.

I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.