

Dear Authors,

I write you in regards to manuscript entitled “The relationship between functional movement patterns, dynamic balance and ice speed and agility in young elite male ice hockey players” which you submitted to the PeerJ.

The authors designed a cross-sectional study to investigate the relationship between functional movement patterns, dynamic balance, and ice speed and agility in young elite male ice hockey players. However, the manuscript contains several points that require further attention and may help to improve the research. See below for specific comments.

Check the guidelines of the journal (wording, format and language).

In the “Abstract” section.

- In the ‘Results’ section of the summary show statistical data (e.g. Spearman's rank correlation or p-value).
- In the ‘Background’ section of the abstract show why this research study is important.
- In the Methods section of the abstract use range of data or mean values and standard deviation.

In the “Introduction” section

Please always use two decimal places in all results and tables.

Define the meaning of elite player in ice hockey.

Indicate where the dataset associated with the work is located.

In the “Method” section

Create a Research Design section that includes the type of research design, Bioethics Committee of the Jerzy Kukuczka Academy of Physical Education in Katowice y Declaration of Helsinki.

Lines 61-65. Include this paragraph in the Statistical Analysis section. Calculate the effect size with the study data and perform the a priori calculation. When you have a low sample size usually follow up studies fail to validate original findings.

Lines 66. Delete “In this cross-sectional study,” and detail the sample data in the same sentence (age, body mass height).

Lines 79-83: It does not correspond to this section.

Lines 91-92. Please show data according to dominant and non-dominant body side.

Line 134, 146. Please, use Kolmogorov-Smirnov test for normality because of the sample size of this study. Which independent variables were parametric or non-parametric?

What are the reliability values and experience of the study evaluators?

I suggest performing a predictive or association analysis (cause-effect relationship) e.g. a statistical analysis of univariate and multivariate binary logistic regression.

In the “Results” section

Table 1,2,3,4. Please change $M \pm SD$ to Total. Delete the Median column. Please review the journal's guidelines on the layout of Tables and Figures.

The Results section is very long. Focus the text on highlighting the main result of each analysis and Table.

In the “Discussion” section

Please comment on the limitations of the FMS procedure according to the following publication. Hernández-García, R., Gil-López, M. I., Martínez-Pozo, D., Martínez-Romero, M. T., Aparicio-Sarmiento, A., Cejudo, A., ... & Bishop, C. (2020). Validity and reliability of the new basic functional assessment protocol (BFA). *International Journal of Environmental Research and Public Health*, 17(13), 4845.

In the “Conclusions” section

Please respond directly to the research question and aim.

Thank you for providing the opportunity to review this manuscript.