Reviewer's report

Title: COULD CURRENT FACTORS BE ASSOCIATED WITH RETROSPECTIVE SPORTS INJURIES IN BRAZILIAN JIU-JITSU? A CROSS-SECTIONAL STUDY

Version: 1 Date: 13 Feb 2017

Reviewer: Sajad Bagherian

Reviewer's report:

Specific Comments: General Comments: The purpose of this manuscript was to analyze some internal features, as well as to describe occurrence and characteristics of retrospective musculoskeletal injuries in different age groups of Brazilian jiu-jitsu practitioners. Although the paper may be of interest to the readership of the journal, but I am not sure about the statistic method and reporting the results. Abstract:Page 2, line 12: at the beginning of sentence is not good to use "193".Page 2, line 19: what do you mean with "muscle extensibility" why authors descript it just in abstract ad the aim of study and this word do not repeat at result section? How reader can find out what was "muscle extensibility"? same for "joint flexibility". Please change all of them with the same word that used in result and method sectionPage 2, line 46: in conclusion the author said joint injuries in "shoulder" derived from combat demands were the main sports injury in all age categories of Brazilian Jiu-Jitsu. As there in no report about shoulder injuries in result section the author cannot conclude about shoulder injuries. Page 2, line 51: "30-year old athletes or older" as the reader do not know about the groups especial age, should change to the group category. (master). Same for line 59: "teenage practitioners", what is "graduation category"? Introduction:Page 4, line 56: after great prophylactic potential, hat is "1"? Is it a citation? Methods:Page 6, line 8: please to add weight for kg and use height instead of stature. Page 6, line 3: how the authors calculate the sample size?Page 6, line 14 and 24: for whole of the manuscript us one word to describe athletes: "subjects" or "participants".Page 6, line 14-22: how participants were distributed into three age groups? And how many athlete in each age group?Page 6, line 31: what is the validity and reliability of International Physical Activity Questionnaire - Short Form? Page 6, line 36: what is the role of this classification in this manuscript?Page 6, line 41: what duration of time was for retrospective sports injuries? For example the authors ask about retrospective sports injuries in last 6 month or last 1 year or something else? Please explain.Page 6, line 43: please provide morbidity survey and IPAQ-SF as a supplement file for this manuscript and also send to editor. Page 7, line 29 and 44: providing photo for reader to understand the analyzing of posture 1 and 2 is necessary. Page 7, line 29-59: the whole paragraph should be re-write. The position that participants used for analyzing the posture 1 2 two is vague. Page 7 line 56: providing more information about photo assessments and the role of three examiners are necessary. What is the validity and reliability of photo assessments?Page 8, line 4: As there is deferent types of sit-and-reach test, please expiation about the position of participants in sit-and-reach test. Page 8, line 7: explain more about all clinical tests how were the measurements. Results:Page 10, table 1: please change stature to height and body mass to weight. About exposure time "(h)" better to be "(h/week)". More about table 1: change "flexibility" to sit and reach, More about table 1: in page 8 authors mention clinical tests (sit and reach test, Schober test, Thomas test, and hand grip force)
but there is no data about Schober test (lumbar spine ROM) and Thomas test (bilateral rectus Femoris muscle flexibility) I mean (Mean ± SD).

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Unable to assess

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Unable to assess

**Are the conclusions drawn adequately supported by the data shown?**
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Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

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Please indicate the quality of language in the manuscript:

Acceptable

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