Reviewer's report

Title: Development and Validation of a Prediction Model for Knee Joint Line Orientation after High Tibial Osteotomy

Version: 0 Date: 30 May 2019

Reviewer: Reviewer 2

Reviewer's report:

PEER REVIEWER ASSESSMENTS:

OBJECTIVE - Full research articles: is there a clear objective that addresses a testable research question(s) (brief or other article types: is there a clear objective)?
Yes - there is a clear objective

DESIGN - Is the current approach (including controls and analysis protocols) appropriate for the objective?
Yes - the approach is appropriate

EXECUTION - Are the experiments and analyses performed with technical rigor to allow confidence in the results?
Yes - experiments and analyses were performed appropriately

STATISTICS - Is the use of statistics in the manuscript appropriate?
Yes - appropriate statistical analyses have been used in the study

INTERPRETATION - Is the current interpretation/discussion of the results reasonable and not overstated?
Yes - the author's interpretation is reasonable

OVERALL MANUSCRIPT POTENTIAL - Is the current version of this work technically sound? If not, can revisions be made to make the work technically sound?
Yes - current version is technically sound

PEER REVIEWER COMMENTS:

GENERAL COMMENTS: I read with interest this paper. It is well designed, the methods are appropriate, and I appreciated the author's effort to improve finale results of a HTO. The equation to estimate postoperative KJLO should be useful in our practice. However, in my opinion the paper is more useful to help knee surgeons to study and plan his surgery than exactly predict postoperative correction. In fact, evaluation of a lot of parameters on pre-operative radiograph should be at risk of bias do to difficult to reproduce real knee axis by a single bi-dimensional x-ray. In summary: very interesting topic and results but conclusions are very difficult to apply in our practice. Congratulations for your well written paper.
REQUESTED REVISIONS:
Line 14 "In this study, 14 radiographic measures, including (1) preoperative and postoperative ankle joint line orientation relative to the ground (G-KJLO), (2) ... " should be Knee joint line

Note: This reviewer report can be downloaded - see attached pdf file.

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

Yes

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

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

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 am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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