Reviewer’s report

Title: Are changes in radiological leg alignment and femoral parameters after total hip replacement responsible for joint loading during gait?

Version: 0 Date: 19 Jul 2019

Reviewer: F Braatz

Reviewer's report:

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Excellent work and an important topic. We recommend the publication of the paper in BMC. Musculoskeletal Disorders. The analysis of the effects of THR on function and gait deviations requires further investigation to get better functional results.

However please add information about the preoperative gait analysis and the influence of typical changes in ROM in OA Patients on the gait. For better understanding of the postoperative changes add a postoperative X-ray with typical changes in the described angles. Maybe you can use the pelvic frontal kinematic data to give an Information about the changes of the leg length pre-post THA.

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.

Not relevant to this manuscript

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

Acceptable

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