Reviewer's report

Title: Deviations in Gait Metrics in Patients with Chronic Ankle Instability. A Case Control Study

Version: 1 Date: 16 August 2014

Reviewer: Uri Givon

Reviewer's report:

Major compulsory revisions
The authors should divulge how many patients had unilateral and how many had bilateral CAI. The mats provide separate measurements for the RT and LT side, and as the used "more involved" in the tables, all the calculations for the less involved limb should be provided as well.
the authors should discuss the significant difference between the groups in BMI and if this difference may have had an effect on the results.
The difference in SLS was 1.4% (and it is not 12% shorter as stated in the discussion but 3.5% shorter) do the authors think it has clinical significance? This should be discussed.
the correlation of such small differences in SLS with significant differences in SF-36 should be addressed as well.

Minor essential revisions
The authors have not shown that they can show improvement or deterioration using the mat, and this should be deleted from the discussion.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests