Reviewer's report

Title: Assessment of the normal and pathological alignment of the elbow in children using the trochleocapitellar index

Version: 2 Date: 19 August 2013

Reviewer: James Fitzsimmons

Reviewer's report:

Although the authors have added additional statistical testing for the comparison of the TCI versus the gold standard in the assessment of fracture reduction quality, they have not adequately described the statistical methods in the specific context of their study nor have they provided any references for the methods they have used.

Major Compulsory Revisions

1. It will be clearer to the reader how the statistical analysis was done if the authors provide more detail on how Positive Predictive Value statistical testing was done in the context of this study. This can be done by adding more descriptive text and/or writing out the PPV formula using the variables from this study. Although some additional description of the PPV variables in this study is provided at the end the Results section they should be stated additional and more clearly in the Methods section.

2. There are no references cited for the use of PPV. The use of the test in similar studies should be cited.

Minor Essential Revisions

1. There are still some minor spelling mistakes in the text of the paper. The authors should use the spell checker and grammar checker in their word processor software and/or use online tools to catch and correct these remaining errors.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests.