Reviewer’s report

Title: A new clinical test for sensorimotor function of the hand - development and preliminary validation

Version: 1 Date: 22 Aug 2017

Reviewer: Helen French

Reviewer’s report:

I would like to thank the authors to addressing previous reviewer comments- the manuscript is much improved as result. My comments are minor and mainly relate to English language and grammatical errors

Methods

Pg 6, line 102: add the word 'the' between 'for' and 'dominant hand'

Pg 6, line 104 'trial' should read 'trials'

Pg 6, line 106: how did you determine that ICC of >0.6 was acceptable. I would consider this quite low if this test is being used in clinical practice e.g. to evaluate change as a result of treatment. This value would imply a substantial measurement error.

Pg 9, line 164 'choose' should read 'chose'

Pg 10, line 185 'behavior' should be 'behaviour'

Pg 10, line 199, add the word 'a' between 'without ' and 'musculoskeletal '

Results

Pg 11, line 212 change 'persons' to 'people'

Pg 11, line 215 add the word 'a' between 'without' and 'hand'

Pg 11, line 218 add the word 'a' between 'had' and 'fractured'

Pg 11, line 221 change 'month' to 'months'

Pg 11, line 225 change 'altogether' to 'a total of'

Pg 11, line 227 delete 'altogether'
Pg 12, line 247 add the word 'the' between 'in' and 'palmar' and in the next sentence before 'dorsal'.

Pg 13, Table 2: legends explaining abbreviations should be placed underneath the table e.g.

RD, Right dorsal; RP, Right Palmar etc.

Pg 14, Table 13 likewise legend should be underneath table explaining ICC and SEM. I suggest reviewing other papers published in BMC musculoskeletal disorders journal.

Pg 15, line 292 review grammar in 'was here chosen'. Unclear what you mean here… do you mean 'in the study was chosen..'?

Pg 15, line 298 change 'direction' to 'directions'

Pg 15, line 300 review the word 'presented'. Do you mean 'developed'?

Pg 16, line 316 change 'many following' to 'other'

Pg 18, line 370 change 'has also' to 'also has'

Pg 18, line 373 change the word 'investigates' to 'investigated'

Pg 18, line 372 suggest changing section heading to 'Study Limitations and Recommendations for future research'

In this section, I would also add construct validity should be ascertained… perhaps by comparing with 3D motion analysis?

Pg 19, line 383 change the word 'assess' to 'assessed'

Conclusion

Pg 19, line 389 change 'the test' to 'a test'

**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:

Needs some language corrections before being published

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