Reviewer’s report

Title: A Danish Version of the Life-Space Assessment (LSA-DK) – Translation, Content Validity and Cultural Adaptation Using Cognitive Interviewing in Older Mobility Limited Adults

Version: 0 Date: 25 Sep 2019

Reviewer: Mario Pérez-Zepeda

Reviewer's report:

This is a study about the content validity of the LSA tool, a very useful when it comes to older adults mobility, the work reports on the process of this validation with appropriate methodology, that could eventually be reproduced in other contexts, I have some minor comments:

- Could you please elaborate a little bit on the 'cognitive interview' If there are alternatives for this methodology on content validity studies, if it has been used previously for the same LSA but for other languages or for other tools in Danish. What can be concluded when using this method compared to others. Moreover, why it would be necessary to do it in an adaptation, why the translate back translate would not be enough.

- It would also be very helpful if the authors describe briefly the process of validation that in their vision should be done in similar tools.

- In this same line, why not performing in this same study criterion validity and reliability tests?

- In the introduction it is well addressed the mobility problem of older adults and its importance for health in this age group. What other tools are available for this matter? Are there any specific Danish tools on this matter? Is there a gold/reference standard?

- I think the quotes in the results section could be shortened and maybe place them in supplementary materials.

- Is the final version available already? Did the authors of the LSA approved the last version? Would you consider this version as the definitive one? Is this version ready to perform reliability tests and criterion validity studies?

- I think it is word to discuss how other LSA tools in other languages or other tools looking at mobility have performed similar validation studies, and compare your results to them. In this same section I would suggest to extend what will the next steps be for this research.

- In the conclusion, I think it is not possible yet to suggest that the tool could be used in clinical settings, until it has completed its validation.

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**
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Acceptable

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