Reviewer's report

Title: Neck muscle cross-sectional area, brain volume and cognition in healthy older men; a cohort study

Version: 4 Date: 17 January 2013

Reviewer: Christian Benedict

Reviewer's report:

This is a well-written study, and the authors are experts in the field. Major Compulsory Revisions: Education is such an important predictor of brain health in humans (e.g. Hum Brain Mapp. 2011 Sep;32(9):1371-82.). That said, as long as you have not controlled your analysis for education, I cannot draw any definite conclusion on the validity of your study findings.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests