Reviewer's report

Title: An inverted J-shaped association of serum uric acid with muscle strength among Japanese adult men: a cross-sectional study

Version: 1 Date: 18 June 2013

Reviewer: Ailsa Welch

Reviewer's report:

This is an interesting paper describing the association between serum uric acid and muscle strength. It is well written and concise.

My comments - major compulsory revisions:

- why were women excluded? It seems a pity to have excluded them particularly as there were a large number of them n=282.
- can you provide the rationale for exclusion of those with renal failure - surely they would have provided information at the highest levels of uric acid? Likewise provide explanation for excluding those on anti-hypertensive or anti-diabetic agents or lipid lowering drugs - specifics of how these impact on uric acid should be provided.
- page 7 why was depression examined?
- I think the curve described for the results of this study would be an ‘inverse U shape’ rather than a J shaped curve
- In the discussion I think it would be helpful to compare UA levels found in this study with those found in the reference number 10
- some minor corrections to the english required

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'