Reviewer’s report

Title: At the moment of occurrence of a fragility hip fracture, men have higher mechanical properties values in comparison with women

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Reviewer: Joop P van den Bergh

Reviewer’s report:

The article is substantially improved.
There is one issue that needs to be addressed further. The authors mention at line 1, page 11 that lower bone ultimate stress was observed in the oldest group. However, in table 2 the lowest value is found in the youngest age group, although there is no significant difference overall between the three age groups. However, Energy to failure is highest in the oldest group (table 2) and additionally the spearman’s rho shows a significant positive correlation.
How do the authors explain a higher energy to failure with age and no difference (or maybe a modest increase) in Ultimate stress with age, while the opposite should be expected namely a decrease of the ultimate stress and energy to failure with increasing age?

Level of interest: An article whose findings are important to those with closely related research interests

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

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I have no competing interests