Reviewer’s report

Title: Pullout strength of pedicle screws with cement augmentation in severe osteoporosis: A comparative study between cannulated screws with cement injection and solid screws with cement pre-filling

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Reviewer: bryan conrad

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General Comments:
The question posed by the authors is well defined. The methodology is well described by the authors. The data appear to be sound. The manuscript adheres relevant standards for reporting data. The discussions and conclusions are well balanced and supported by the data, however the conclusions are limited in clinical application since the experimental model does not seem representative of osteoporotic bone. The limitations to the study are clearly stated. The authors acknowledge previous work in the area. The title and abstract accurately convey what has been found. The writing in the manuscript is very good.


Major Compulsory Revisions
1. The only issue I have with the methodology is that the experimental test blocks do not seem be representative of osteoporotic cancellous bone. Even though the experimental model is described as being extremely osteoporotic, it still seems to be well below the density, porosity, strength and modulus of measured properties of human osteoporotic vertebral bone 1,2.

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

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