Reviewer's report

Title: Accuracy of a non-invasive CT-based measuring technique for cement penetration depth in human tibial UKA.

Version: 1 Date: 13 Dec 2018

Reviewer: Elise C. Pegg

Reviewer's report:

The authors have addressed my comments and I am mostly satisfied with their changes. I think it would be good if some of the information provided in the response to my comments was included in the paper - in particular, the power analysis to justify the sample size, and the bone density assessment. If not in the main text, perhaps this could be added as supplementary data.

As a side note, I am still unconvinced that the magic wand tool in Photoshop uses a thresholding algorithm. All the information I can find says it is region growing - these are very different algorithms. I also see no reason why the same algorithm could not be used for a greyscale and colour image. This makes it harder to draw direct comparisons, but there is sufficient information in the paper for the reader to interpret the results.

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
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Acceptable

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