Reviewer’s report

Title: Simulated Increased Soft Tissue Thickness Artefactually Decreases Trabecular Bone Score: A Phantom Study

Version: 0 Date: 07 Dec 2015

Reviewer: Luis Del Rio

Reviewer’s report:

The authors describe the results of effects of increased soft tissue in the abdominal region on the measurements of image texture parameter TBS in a simple "in vitro" experiment.

The description of the method is adequate and the results and limitations of the experiment are also well described. However, and this is not obstacle for the recommendations to be published this study, it would have been of interest that the experiment could be completed with the use of different materials that allow recognizing the impact of different fat-free mass and fat mass quantities and proportions. In this sense, the increase in fat-free mass can occur in clinical cases in which there is intra-abdominal fluid (ascites), or in cases of major abdominal fat accumulation (visceral or subcutaneous) in overweight or obese cases. So that could warn if the "noise" caused by the higher amount of soft tissue hits differently, according to the change of composition of tissues.

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.

Unable to assess

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
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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