

April 20, 2014

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 8272-review.doc).

Title: From histology to micro-CT: Measuring and modeling resorption cavities and their relation to bone competence

Author: Jef Vanderoost, G. Harry van Lenthe

Name of Journal: *World Journal of Radiology*

ESPS Manuscript NO: 8272

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

(1) The typos were corrected. The instructions states 'No less than 200 words', so an abstract of 337 words fulfills this requirement.

(2)

- a. The aims of the review were clarified in the introduction.
- b. A methodology section was added.
- c. The introduction of section 5 (previously 4) was updated to clarify the aim of the section and the limitations. We believe that this section is relevant for the review, since the properties used in biomechanical models largely determine their outcome. Only by describing the range of properties found in literature and the limitations of the measurement methods, it is possible to critically evaluate the assumptions applied in the biomechanical models.
- d. We corrected several language and format errors.
- e. All acronyms were written in extended form the first time the term was written
- f. Acronyms were explained in the figure and table legends.
- g. We appreciate the suggestion of the reviewer to include a contribution from an expert on bone metabolism. Indeed, this review was initially intended to include a contribution by prof. Dr. Steven Boonen, director of the Leuven University Center for metabolic bone diseases. Unfortunately prof. Dr. Steven Boonen passed away in May 2013, while the writing process was uncompleted.

3 References and typesetting were corrected

Thank you again for publishing our manuscript in the *World Journal of Radiology*.



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