

Format for ANSWERING REVIEWERS



April 3, 2014

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 8171-review.doc).

Title: The bone three-dimensional microstructural features of the common osteoporotic fracture sites

Author: Huayue Chen, Kin-ya Kubo

Name of Journal: *World Journal of Orthopedics*

ESPS Manuscript NO: 8171

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) According to the suggestion of reviewer 00597793, we make a table in the introduction section to show the main measures which the readers can refer.
- (2) We add a sentence "This review article will discuss the bone microstructural parameters obtained from 3D work and newer technologies," at the end of the introduction section, according to the suggestion of reviewer 00597793.
- (3) Response to the comment of reviewer 00204506 on precisely how such data could be used in clinical decision-making.

Measurement of bone mineral density (BMD) with dual-energy X ray absorptiometry has traditionally been used as the gold standard for diagnosis of osteoporosis. It was reported that BMD can only accounts for 70% of bone strength. Independent of BMD, three-dimensional (3D) trabecular and cortical bone microstructural properties contribute to skeletal fragility. Clinically, predictions of osteoporotic fracture risk may benefit from assessment of 3D bone microstructural parameters. Although bone microstructure can be assessed at peripheral skeletal sites at present, additional work is needed to develop clinically feasible methods to evaluate microstructure at the axial skeleton. Ultimately, improved understanding of the importance of the various microstructural properties will help clinical decision-making regarding the pathogenesis, prevention and treatment of osteoporosis.

3 References and typesetting were corrected

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

Sincerely yours,

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