Author's response to reviews

Title: Trabecular distribution analysis of the proximal femur in patients with hip fragility fractures

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Version: 2 Date: 19 December 2012

Author's response to reviews: see over
December 1st, 2012

Dear Editor:

Please find attached our manuscript entitled “Trabecular distribution analysis of the proximal femur in patients with hip fragility fractures” for your review. Your kind consideration of potential publication in BMC Musculoskeletal Disorders is highly appreciated.

In this manuscript, we assessed the trabecular distribution of the proximal femur in hip fragility fractures using multi-detector computed tomography (MDCT) and determined the relationship between the trabecular distribution and hip fragility fractures. We found that the occurrence of femoral neck fractures is closely related to the degeneration of principal compressive trabecula (ComT) and principal tensile trabecula (TenT). Trochanteric hip fractures have more severe degeneration in trochanteric trabecula (TroT) and an enlargement of the Ward's triangle (WT) region besides the degeneration of ComT and TenT. Hip fragility fractures may be predicted by the measurement of four regions of interest (ROIs) mean CT values in ComT, TenT, TroT, and the WT region. We believe our work is original and novel.

Lastly, we wish to confirm that there are no known conflicts of interest associated with this publication. This manuscript has not been submitted to any other journals for potential publication.

If there are any enquiries, please feel free to contact me.

Sincerely yours,

Yongqiang Hao