

## Supplementary Data

SUPPLEMENTARY TABLE S1. EXPLANATION OF THE MICROCOMPUTED TOMOGRAPHY MORPHOMETRIC PARAMETERS ANALYZED WITHIN THE TWO VOLUMES OF INTEREST

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BMD (g/cm <sup>3</sup> )	Volumetric density of bone within a mixed bone–soft tissue VOI
BV/TV (%)	Proportion of VOI occupied by binarized solid objects (e.g., bone)
i.S (mm <sup>2</sup> )	Surface of VOI intersected by bone, useful for evaluating bone growth at a defined boundary
BS/BV (mm <sup>-1</sup> )	Ratio of bone surface to bone volume within the VOI, useful for characterizing the relative complexity of structures
Obj.N	Total number of discreet binarized objects within the VOI, where a discreet object is a connected cluster of solid (white) voxels fully surrounded by space (black) voxels
Tb.Th (μm)	True 3D thickness as determined by an average of the local thickness at each point representing bone
Tb.N (mm <sup>-1</sup> )	Implication of the number of traversals across a trabecular or solid structure made per unit length on a random linear path through the VOI
Tb.Sp (μm)	True 3D thickness as determined by an average of the local thickness at each point representing nonbone

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3D, three-dimensional; BMD, bone mineral density; BS/BV, bone-specific surface; BV/TV, percent bone volume; i.S, intersection surface; Obj.N, object number; Tb.N, trabecular number; Tb.Sp, trabecular separation; Tb/Th, trabecular thickness; VOIs, volumes of interest.