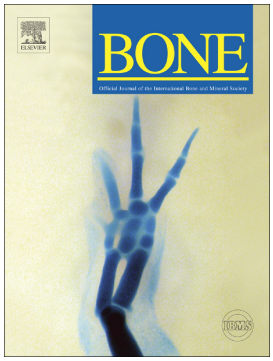


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**Keywords:** advanced glycation end products, non-enzymatic cross-links, Fourier transform infrared spectroscopy, collagen, bisphosphonates, bone quality

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