

论著

益骨胶囊含药血清对大鼠成骨细胞IL-6 mRNA及其蛋白表达的影响

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摘要 目的: 从mRNA及蛋白水平探讨益骨胶囊含药血清对成骨细胞表达IL-6的影响。方法: 分离、培养新生SD大鼠成骨细胞, 传代后分为3组即含药血清组; 空白血清组; DMEM组。采用RT-PCR法检测IL-6 mRNA相对表达量, 用放射免疫法检测成骨细胞培养上清中的IL-6含量。结果: 益骨胶囊含药血清组IL-6 mRNA相对表达量显著低于对照组 ($P < 0.05$); 益骨胶囊含药血清组IL-6蛋白表达量也低于对照组 ($P < 0.05$)。结论: 益骨胶囊含药血清能下调成骨细胞IL-6 mRNA 表达; 亦能在蛋白水平降低成骨细胞分泌骨吸收因子IL-6, 这可能是益骨胶囊防治骨质疏松症的机制之一。

关键词 [益骨胶囊](#); [成骨细胞](#); [白细胞介素6](#); [大鼠](#)

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Effect of benefiting-bone Capsule on IL-6 mRNA and protein expression in rat osteoblasts in vitro

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Abstract

AIM: The effects of benefiting-bone Capsule (BBC) containing serum on IL-6 mRNA and protein expression in osteoblasts were studied. METHODS: (1) The neonate Sprague-dawley rat osteoblasts were cultured and divided into three groups: group I (containing deactivating serum with BBC), group II (containing deactivating serum without BBC) and group III (DMEM medium group); (2) RT-PCR was used to measure the relative IL-6 mRNA levels; (3) The radioimmunoassay method was used to examine IL-6 protein in the supernatant of the cultured osteoblasts. RESULTS: (1) The relative IL-6 mRNA levels was lower in group I than the control ($P < 0.05$); (2) The IL-6 protein expression in osteoblasts was also lower in group I than the control ($P < 0.05$). CONCLUSIONS: These results suggest BBC drug-containing serum can down-regulate the expression of IL-6 mRNA and protein in osteoblasts, which may be one of the mechanisms of BBC preventing and treating osteoporosis.

Key words [Benefiting-bone capsule](#) [Osteoblasts](#) [Interleukin-6](#) [Rats](#)

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