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鹿角脱盘胶原蛋白对去卵巢所致骨质疏松大鼠的治疗作用

Therapeutic Effects of Collagen of Antler Plate on Osteoporosis in Ovariectomized Rats

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中文摘要:

目的 研究鹿角脱盘胶原蛋白对去卵巢大鼠骨质疏松的治疗作用。方法 Wistar大鼠, ♀, 随机分为6组: 假手术组, 模型对照组, 阳性对照组和鹿角脱盘胶原蛋白高、中、低剂量组。采用摘除双侧卵巢法建立骨质疏松模型, 术后7 d开始给药, 连续给药90 d, 检测大鼠骨密度、血清碱性磷酸酶(ALP)活性和羟脯氨酸(Hyp)含量, 骨组织形态计量学参数、骨力学、体重和脏器系数等。结果 与模型对照组比较, 鹿角脱盘胶原蛋白治疗后大鼠骨密度显著增加、血清中ALP活性降低、Hyp含量升高, 骨组织形态计量学参数及骨力学指标显著改善。体重和脏器系数无显著影响。结论 鹿角脱盘胶原蛋白对去卵巢所致的骨质疏松大鼠有一定的治疗作用。

英文摘要:

OBJECTIVE To study therapeutic effects of collagen of antler plate on osteoporosis in ovariectomized rats. METHODS Wister female rats were randomly divided into sham-operated group, osteoporosis model group, positive control group, collagen of antler plate high, medium and low-dose group. Osteoporosis model was established by bilateral ovaries extraction. After 7 days, the rats were treated consecutively for 90 days with collagen of antler plate. The effects of collagen of antler plate on bone mineral density, alkaline phosphatase(ALP) activity and hydroxyproline(Hyp) content, bone histomorphometry, bone mechanics, body weight and organ index were observed. RESULTS Compared with osteoporosis model group, after treated by collagen of antler plate, bone mineral density increased significantly, ALP activity decreased and Hyp content increased, bone histomorphometry, and bone mechanics were significantly improved, body weight and organ index had no statistical difference. CONCLUSION Collagen of antler plate can treat osteoporosis in ovariectomized rats.

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