

药物研究

补肾更年期方对去除卵巢大鼠血清 E_2 水平及
下丘脑 $ER\alpha$ 蛋白表达的影响^{*}张兰¹ 邵迎春¹ 王渊² 侯淑红^{1**} 雷莉妍²

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摘要:目的 治疗补肾更年期方对去除卵巢大鼠血清 E_2 水平和下丘脑 $ER\alpha$ 蛋白表达的影响, 探讨其效应机制。方法 将 40 只大鼠用手术去除卵巢后随机分为补肾更年期方大剂量组、中剂量组、小剂量组和己烯雌酚组, 并与 10 只模型组和 10 只空白组做对照, 补肾更年期方大、中、小剂量组以不同剂量灌胃, 模型组和空白组以生理盐水灌胃, 己烯雌酚组以己烯雌酚按 1 mL/100 g 的剂量灌胃, 连续 45 d, 结束后, 取血, 放免法检测血清 E_2 , Western blot 法检测大鼠下丘脑 $ER\alpha$ 蛋白表达。结果 与空白组比较, 模型组大鼠血清 E_2 水平显著降低、下丘脑 $ER\alpha$ 蛋白表达显著减少 ($P < 0.01$); 与模型组比较, 补肾更年期方大、中剂量组和己烯雌酚组能够显著升高大鼠血清 E_2 水平并增加下丘脑 $ER\alpha$ 蛋白表达 ($P < 0.05$), 补肾更年期方小剂量组对其无明显影响 ($P > 0.05$)。结论 补肾更年期方在改善去除卵巢大鼠血清 E_2 水平同时, 可能通过影响 $ER\alpha$ 蛋白的表达, 提高 ER 的生物效应, 从而发挥对更年期综合征的治疗效应。

关键词: 去除卵巢大鼠; 补肾更年期方; E_2 ; $ER\alpha$

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Effect of Bushen Gengnian Recipe on Serum E_2 Level and
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Abstract Objective: To treat the effect of Bushen Gengnian Recipe on serum E_2 level and expression of $ER\alpha$ protein in hypothalamus of ovariectomized rats and to investigate its mechanism. **Method:** 40 rats were randomly divided into high-dose group, middle-dose group, low-dose group and diethylstilbestrol group, and were compared with 10 model groups and 10 blank groups. The high, middle and low dose groups were intragastrically administered with different doses of Bushen Gengnian Recipe. The model group and the blank group were intragastrically administered with normal saline. The diethyl-

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