

# 逐瘀散结颗粒抗大鼠子宫肌瘤作用机制研究<sup>\*</sup>

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**摘要:**目的 观察逐瘀散结颗粒对子宫肌瘤大鼠性激素及细胞因子水平的影响,从而探讨其作用机制。  
**方法** SD大鼠随机分为空白组、模型组、桂枝茯苓丸组、逐瘀散结颗粒高、低剂量组( $360、180\text{mg} \cdot \text{kg}^{-1}$ ),以苯甲酸雌二醇、黄体酮肌肉注射造大鼠子宫肌瘤模型,用放免法测定其雌二醇(E<sub>2</sub>)、孕酮(P)水平,ELISA检测血清IL-2、肿瘤坏死因子(TNF- $\alpha$ )含量,并进行子宫组织病理学检查。**结果** 模型组大鼠表现出其子宫脏器系数增加,卵巢脏器系数减小;E<sub>2</sub>、P水平增加,血清IL-2水平下降、TNF- $\alpha$ 水平升高;子宫平滑肌肌层增厚,排列紊乱,胞核增大。逐瘀散结颗粒高、低剂量组与模型组比较,子宫系数减小,卵巢系数增加,血清E<sub>2</sub>、P降低,血清IL-2水平升高,TNF- $\alpha$ 水平降低。**结论** 逐瘀散结颗粒可改善肌瘤子宫的病理学形态,降低血清E<sub>2</sub>、P,调节免疫功能,这些可能是其治疗子宫肌瘤的作用机制。

**关键词:**逐瘀散结颗粒;子宫肌瘤;雌二醇;孕酮;免疫水平

中图分类号:R211.76 文献标识码:A 文章编号:2096-1340(2019)04-0035-04

DOI:10.13424/j.cnki.jsctcm.2019.04.009

## Study on the Mechanism of Zhuyu Sanjie Granule in the Treatment of Uterine Fibroid in Rats

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**Abstract:** **Objective** To observe the effect of Zhuyu Sanjie Granule on the levels of sex hormones and cytokines in uterine fibroid rats, and to explore its mechanism of action. **Methods** SD rats were randomly divided into blank group, model group, Guizhi Fuling group, Zhuyu Sanjie Granule high and low dose group ( $360, 180\text{mg} \cdot \text{kg}^{-1}$ ). Rat model of uterine fibroids was induced by intramuscular injection of estradiol benzoate and progesterone. The levels of estradiol (E<sub>2</sub>) and progesterone (P) were measured by radioimmunoassay. Serum IL-2 and tumor necrosis factor content (TNF- $\alpha$ ) were detected by ELISA, and uterine histopathological examination was performed. **Results** The rats in the model group showed an increase in uterine organ coefficient and a decrease in ovarian organ coefficient; E<sub>2</sub> and P levels increased, serum IL-2 levels decreased, and TNF- $\alpha$  levels increased; uterine smooth muscle layer thickened and arranged disorderly. The nucleus is enlarged. Compared with the model group, the uterine coefficient decreased, the ovarian coefficient increased, the serum E<sub>2</sub> and P decreased, the serum IL-2 level increased and the TNF- $\alpha$  level decreased in the high and low dose groups of Zhuyu Sanjie Granule. **Conclusion** Zhuyu Sanjie Granule can improve the pathological morphology of uterine fibroids, reduce serum E<sub>2</sub> and P, and regulate immune function. These may be the mechanism of its treatment of uterine fibroids.

**Keywords:** Zhuyu Sanjie Granule; uterine fibroid; estradiol (E<sub>2</sub>) and progesterone (P); immune level

<sup>\*</sup> 基金项目:陕西省中医药管理局科研项目(ZYMS015)

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