

真武汤对大鼠单侧输尿管梗阻模型细胞因子的影响

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中文摘要:目的: 通过检测单侧输尿管梗阻模型(UUO模型)大鼠外周血细胞因子, 包括白介素 1β (IL- 1β)、血浆纤溶酶原激活物抑制剂-1(PAI-1)、脂联素(adiponectin)、白介素6(IL-6)、单核细胞趋化蛋白-1(MCP-1)分子表达的影响, 从免疫因子角度探讨真武汤对大鼠UUO治疗作用的分子机制。方法: 将大鼠随机分为5组, 除正常对照组外其余大鼠进行单侧输尿管梗阻造模, 建模后即开始给药, 分别为氯沙坦钾组(20 mg \cdot kg $^{-1}$ \cdot d $^{-1}$)、真武汤低、高剂量组(按生药量计为 2.1, 9.8 g \cdot kg $^{-1}$ \cdot d $^{-1}$), 模型组及正常对照组分别给予生理盐水。于建模后第4周, 收集各组标本外周血, 采用多重细胞因子检测法检测各组大鼠血中IL- 1β , PAI-1, 脂联素, IL-6, MCP-1含量。结果: UUO模型组大鼠在建模后第4周, 与空白对照组相比, 表现出外周血PAI-1, IL-6, MCP-1含量明显升高, 分别为33.3 \pm 14.1, 9.58 \pm 12.01, 133.9 \pm 80.1荧光强度单位, 脂联素, IL- 1β 未见明显影响。真武汤低、高剂量组可明显降低UUO大鼠升高的外周血PAI-1, IL-6, MCP-1含量。结论: UUO模型中外周血PAI-1, IL-6, MCP-1含量明显升高, 真武汤可能是通过降低上述指标含量而达到缓解肾间质纤维化的作用的。

中文关键词: [真武汤](#) [单侧输尿管梗阻模型](#) [纤溶酶原激活物抑制剂-1](#) [脂联素](#) [单核细胞趋化蛋白-1](#) [白介素6](#)

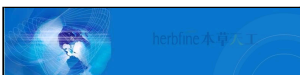
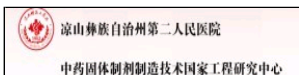
The Effect of Zhenwu Tang on Expression of Cytokines in Rat Unilateral Ureteral Obstruction Model

Abstract: Objective: To explore the molecular immunology mechanisms of Zhenwu Tang for protecting kidney from injury. Method: Rats were randomly divided into 5 groups, in addition to the normal group, the remaining rats were operated for unilateral ureteral obstruction model(UUO), and then losartan (20 mg \cdot kg $^{-1}$), Zhenwu Tang low and high dose (crude drug 2.1, 9.8 g \cdot kg $^{-1}$) were administered, respectively. Model group and control group were given saline. Serum were collected at day 29 after UUO modeling, and the cytokines including monocyte chemoattractant protein-1(MCP-1), plasminogen activator inhibitor-1(PAI-1), tumor necrosis factor- α (TNF- α), interleukin- 1β (IL- 1β), IL-6 and adiponectin: were detected by multiple cytokine luminex detection. Result: The serum content of MCP-1, PAI-1, and IL-6 in UUO model was significantly higher compared with normal rats. The serum content of Adiponectin TNF- α , and IL- 1β was no significant change. Zhenwu Tang can significantly reduce elevated blood PAI-1, IL-6, MCP-1 levels. Conclusion: The molecular mechanism of Zhenwu Tang in remission of renal interstitial fibrosis may be related to reduce serum MCP-1, PAI-1 and IL-6 levels.

keywords: [Zhenwu Tang](#) [unilateral ureteral obstruction](#) [plasminogen activator inhibitor-1](#) [adiponectin](#) [monocyte chemoattractant protein-1](#) [interleukin-6](#)


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