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桂枝汤对高脂血症心肌缺血大鼠炎性细胞因子的影响

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
焦宏	JIAO Hong	河北北方学院, 河北 张家口 075000	Hebei North University, Zhangjiakou 075000, China	
马建伟	MA Jianwei	河北北方学院, 河北 张家口 075000	Hebei North University, Zhangjiakou 075000, China	
陈彦静	CHEN Yanjing	中国中医科学院 中医基础理论研究所, 北京 100700	Institute of Basic Theories, China Academy of Chinese Medical Sciences, Beijing 100700, China	chenyj010@163.com
鞠大宏	JU Dahong	中国中医科学院 中医基础理论研究所, 北京 100700	Institute of Basic Theories, China Academy of Chinese Medical Sciences, Beijing 100700, China	
向丽华	XIANG Lihua	中国中医科学院 中医基础理论研究所, 北京 100700	Institute of Basic Theories, China Academy of Chinese Medical Sciences, Beijing 100700, China	
王书强	WANG Shuqiang	河北北方学院, 河北 张家口 075000	Hebei North University, Zhangjiakou 075000, China	

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中文摘要：目的: 观察桂枝汤对高脂心肌缺血大鼠炎症因子的影响,初步探讨桂枝汤对心血管保护作用的机制。 方法: 60只健康雄性SD大鼠,高脂饲料、丙硫氧嘧啶及VD_3喂养12周,诱导高脂血症,随机分为对照组、模型组、辛伐他汀组、桂枝汤低、高剂量组继续喂养6周,于试验结束72 h前分3次腹腔注射垂体后叶素(pit),造成高脂心肌缺血模型。18周末检测大鼠血清中可溶性E-选择素(SES)和CRP,NO,SOD,MAD及心肌组织中的SOD,MAD含量,免疫组化法测定心肌TNF-α的表达。 结果: 桂枝汤可降低高脂心肌缺血大鼠血清中SES及CRP的含量,升高NO含量;桂枝汤可升高血浆和心肌组织SOD含量、降低MDA含量。免疫组化结果显示,桂枝汤可显著降低高脂心肌缺血大鼠心肌组织TNF-α表达。 结论: 桂枝汤可能通过抑制高脂心肌缺血大鼠炎症及氧化应激反应,发挥其保护心血管的作用。

中文关键词：桂枝汤 高脂血症 心肌缺血 炎症因子 氧化应激

Effects of Guizhi Tang on inflammatory cytokines in myocardial ischemia and hyperlipidemia rats

Abstract: Objective: To explore the effects of Guizhi Tang on the inflammatory cytokines in myocardial ischemia and hyperlipidemia rats. Method: The early changes of hyperlipid and atherosclerosis are caused by utilizing multiple factors including feeding hyperlipid and propylthiouracil and high doses of vitamin D_3 for 12 weeks. Sixty male SD rats were randomly divided in to 5 groups: control group, model group, simvastatin group, low-dosage Guizhi Tang group, high-dosage Guizhi Tang group. At the end of six weeks treatment, pituitrin(pit) is abdominal cavity injected every 24 hours for a total of three times. Detecting the serum levels of SES, CRP, NO, SOD, MDA and the content of cardiac muscle tissue SOD, MDA, The expression of TNF-α in cardiac muscle tissue was detected by immunohistochemistry. Result: Guizhi Tang significantly decreased levels of SES,CRP and MAD, increased levels of NO and SOD, Guizhi Tang markedly decreased the level of protein expression of TNF-α in cardiac muscle tissue. Conclusion: Guizhi Tang may inhibit the proinflammatory factors and oxidation in myocardial ischemia and hyperlipidemia rats.

keywords: Guizhi Tang hyperlipidemia myocardial ischemia inflammation cytokine oxidation

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