

补中益气汤对甲状腺功能减退大鼠心肌细胞凋亡及 Fas, FasL和Caspase-3蛋白表达的影响

投稿时间: 2011-12-26 [点此下载全文](#)

引用本文: 高天舒,韩晓晴,尹慧丝.补中益气汤对甲状腺功能减退大鼠心肌细胞凋亡及 Fas, FasL和Caspase-3蛋白表达的影响[J].中国实验方剂学杂志,2012,18(10):236~240

摘要点击次数: 138

全文下载次数: 52

作者	单位	E-mail
高天舒	辽宁中医药大学附属医院内分泌科,沈阳 110032	249268519@qq.com
韩晓晴	辽宁中医药大学,沈阳 110032	
尹慧丝	辽宁中医药大学,沈阳 110032	

基金项目:辽宁省教育厅项目(2009A492);辽宁省教育部博士点基金项目(20092133110004);辽宁省教育厅优秀人才计划项目(LR201026)

中文摘要:目的: 研究补中益气汤对甲状腺功能减退(甲减)大鼠心肌细胞凋亡及Fas,FasL和Caspase-3蛋白表达的影响。方法: 采用Kolaja法制备大鼠甲状腺功能减退模型。健康Wistar大鼠120只随机分成正常对照组、模型组、补中益气汤组(18.9 g · kg⁻¹)、左旋甲状腺素钠L-T4组(9.45 μg · kg⁻¹),各组灌胃给药56 d。光镜和电镜下观察心肌形态学和超微结构变化,TUNEL法检测心肌凋亡细胞,免疫组化检测凋亡相关基因蛋白Fas,FasL,Caspase-3的表达,ELISA法测定血清促甲状腺激素(TSH),放射免疫分析法测定血清总三碘甲状腺原氨酸(TT3)及总甲状腺素(TT4)。结果: 与正常组相比,模型组心肌细胞凋亡指数及Fas,FasL,Caspase-3的表达均达高峰,心肌细胞结构损伤严重,经治疗后补中益气汤组(12.10±0.73)和L-T4组(29.26±2.10)的心肌细胞凋亡指数降低,Fas,FasL及Caspase-3的阳性表达均下降,且补中益气汤组的疗效优于L-T4组(P<0.05)。结论: 甲减引起心肌细胞凋亡增多,Fas,FasL,Caspase-3表达升高,而补中益气汤可明显降低心肌细胞凋亡指数,下调Fas,FasL及Caspase-3的表达,说明补中益气汤对甲减的心肌损害有干预保护作用。

中文关键词:[补中益气汤](#) [甲状腺功能减退](#) [细胞凋亡](#) [Fas](#) [FasL](#) [Caspase-3](#)

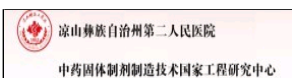
Influence of Buzhong Yiqi Tang on Myocardial Apoptosis and Expression of Proteins Fas, FasL and Caspase-3 in Rats of Hypothyroidism

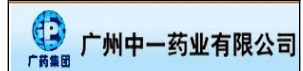
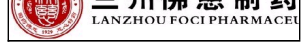
Abstract:Objective: To study the effect of Buzhong Yiqi Tang(tonifying middle-Jiao and Qi treatment) on myocardial apoptosis and expression of proteins Fas, FasL and Caspase-3 in hypothyroid rats. Method: The rat of hypothyroidism models were prepared by Kolaja method. Healthy wistar rats were randomly divided into normal control group,model group, Buzhong Yiqi Tang group, Letrox(L-T4)group. The morphological and ultrastructural changes were observed under optical microscope and electronic microscope respectively. Apoptotic cells were measured by TdT-mediated dUTP nick end labeling (TUNEL) method.The expression of apoptosis-related proteins Fas, FasL and Caspase-3 were detected with immunohistochemical methods. TSH was measured by ELISA, Total 3 Triiodothyronine(TT3)and Total 4 Triiodothyronine (TT4) were measured by RIA;detect the iodine in urine. Result: Compared with control group,the apoptosis index and the expression of Fas, FasL and Caspase-3 reached the highest level in the model group,myocardial cell injured severely. After treatment the apoptosis index of Buzhong Yiqi Tang group(12.10±0.73) and L-T4 group(29.26±2.10) decreased,the expression of Fas, FasL and Caspase-3 also reduced,and the effectiveness of Buzhong Yiqi Tang group was better(P<0.05). Conclusion: Hypothyroidism causes increase of myocardial cell apoptosis,heightened expression of Fas, FasL and Caspase-3, while Buzhong Yiqi Tang might decrease the myocardial apoptosis and lower the expression of protein Fas, FasL and Caspase-3 significantly,it indicated that Buzhong Yiqi Tang has protective action on myocardial injury of hypothyroidism.

keywords:[Buzhong Yiqi Tang](#) [hypothyroidism](#) [cell apoptosis](#)

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

广告服务





中国实验方剂学杂志编辑部版权所有

您是本站第3053916位访问者 今日一共访问4442次 [linezing.com](#)

地址：北京东直门内南小街16号邮编：100700

电话：010-84076882 在线咨询 [京ICP备09084417号](#)