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血必净注射液对脓毒症早期大鼠血浆蛋白水平的影响

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中文摘要:目的: 观察血必净注射液对脓毒症大鼠早期血浆总蛋白(TP)、白蛋白(ALB)水平的影响,拟从分子生物学角度阐明可能存在的机制。 方法 :54只健康雄性Wistar大鼠随机分为正常对照组、脓毒症组和血必净治疗组,尾静脉注射脂多糖(lipopolysaccharide,LPS)建立脓毒症模型。各组在建立模型后6,12,24 h作为观察点,测量各组的血浆总蛋白、白蛋白值;采用Western blot法对3组大鼠肝脏AMPK,eEF2蛋白进行检测。 结果 :与正常对照组比较,LPS尾静脉注射6,12 h后,脓毒症组、血必净组的TP及ALB尚无变化;但24 h后脓毒症组TP和ALB明显低于正常组(*P*<0.01),pho-AMPK,pho-eEF2在肝脏的表达也相应增加(*P*<0.01),而血必净组无明显变化;各组间总AMPK,eEF2均无统计学差异。与脓毒症组比较,血必净治疗组24 h TP,ALB明显升高(*P*<0.05),但稍低于对照组;血必净组pho-AMPK,pho-eEF2在肝脏的表达明显下降(*P*<0.05)。 结论 :脓毒症早期应用血必净注射液可以通过AMPK途径抑制肝脏蛋白的分解,减少血浆蛋白的分解。

中文关键词:脓毒症 血必净 血浆蛋白

Effects of Xuebijing injection on serum protein level in early phase of septic rats

Abstract: Objective : To observe the effect of Xuebijing injection on serum protein level in the early phase of septic rats and explain the mechanism from the perspective of molecular biology. Method : Fifty-four healthy wistar rats were randomly divided into control group, sepsis group and Xuebijing treatment group. The rat model of sepsis was established with injecting lipopolysaccharide(LPS) through caudal vein. Serum total protein (TP) and albumin(ALB) were measured at the point of 6, 12 and 24 h with the established model. The expression of AMPK, eEF2 protein in liver in the three groups were detected by Western blot analysis. Result : Compared with control gruop, the concentrations of TP and ALB of sepsis group and Xuebijing group were no significant difference with 6, 12 h treatment TP and ALB in sepsis group was lower (*P*<0.01) than control group after 24 h, and the expression of phos-AMPK, pho-eEF2 protein in livers was increased (*P*<0.01) simultaneously. All measured indexes in Xuebijing group has no difference with control group. Compared with sepsis group, TP and ALB of Xuebijing group was significantly higher (*P*<0.05), but lilltle lower than control group, the expression of phos-AMPK, pho-eEF2 protein in livers was decreased (*P*<0.05) simultaneously. Conclusion : These data suggest that Xuebijing injection prohibits catabolising serum albumin and inhibit liver protein catabolism by method of AMPK way.

keywords:sepsis Xuebijing injection serum protein doi: 10.4268/cjcmm20100224

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