

畜牧兽医科学

两种不同药性中药注射液对内毒素性肾衰的防治作用

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摘要:

摘要: 以家兔为试验动物, 研究复方金银花注射液和茵陈五苓注射液对内毒素所致急性肾功能衰竭的防治作用。将32只雄性健康成年家兔随机分为阴性对照组、模型组、复方金银花防治组和茵陈五苓防治组, 每组各8只。模型组和各防治组家兔一次性静脉注射大肠杆菌O111B4内毒素生理盐水溶液, 剂量为100μg/kg。两防治组家兔注射等剂量内毒素24h后静脉注射剂量为100μg/kg的中药注射液, 阴性对照组静脉注射等量生理盐水。注射内毒素(或生理盐水)1h后开始通过膀胱瘘管收集尿液, 每1h收集一次, 共收集6h。末次收集尿液后心脏采血。结果表明, 模型组家兔发生急性肾功能衰竭, 其各项肾功能指标均与阴性对照组有显著或极显著差异(P<0.05, P<0.01)。与模型组比较, 复方金银花组家兔的尿量以及肌酐、尿素氮和尿钠排出量显著或极显著增加(P<0.05, P<0.01), 肾衰指数和钠排泄分数显著降低(P<0.05), 内生性肌酐清除率、尿渗透压和尿血渗比及渗透物质清除率显著或极显著升高(P<0.05, P<0.01), 游离水清除率极显著降低(P<0.01)。结果表明, 复方金银花注射液对内毒素性肾衰具有防治作用。茵陈五苓组家兔的尿量、肌酐和尿素氮随尿排出量、渗透物质清除率和内生性肌酐清除率在试验后期也较模型组显著改善。

关键词: 关键词: 内毒素 肾功能衰竭 复方金银花注射液 茵陈五苓注射液 防治作用

The Prevention and Cure Effect of Two Different Chinese traditional medicine Injection on the Endotoxin Renal Failure

Abstract:

Abstract: Used the rabbits as the experimentation animal, researched the prevention and cure effect of compound honeysuckle and Herba Artemisiae Scoparia injection on endotoxin-induced acute renal failure(ARF). The 32 rabbits were randomly divided into 4 groups, the comparison group, the model group, compound honeysuckle group and Herba Artemisiae Scoparia group, each group was 8. The rabbits of model and each prevention and cure groups were given an intravenous injection of E.coli O111B4 endotoxin(ET) solution with dose of 100μg/kg. After injection of ET, the two prevention and cure groups were injected compound honeysuckle and Herba Artemisiae Scoparia with intravenous injection, the dose of 100μg/kg respectively. The negative comparison group were injected just the right quantities of normal saline(NS) additionally. After 1h, a serial urine samples were collected by a bladder fistula at one time per hour, a totla of 6 hours. At the end of the collection of urine, the bleeding was immediately made from heart. The results showed that the rabbits of model groups developed Acute renal failure (ARF), The kidney function were prominent or significant prominent difference compared with the negative comparison group (p<0.05 or p<0.01), it compared with the model group that the compound honeysuckle group were prominently increased in urinary output, the excretion of creatinine, urine nitrogen and urine natrium (p<0.05 or p<0.01), renal failure rate and the excretion fraction were markedly decreased (p<0.05), endogenic creatinine clearance ratio, urine osmotic pressure and the clearance rate of penetration material were prominently increased (p<0.05 or p<0.01), the free water clearance rate were markedly decreased (p<0.05). The results showed that the compound honeysuckle had obvious prevention and cure effect to ARF induced by ET. The Herba Artemisiae Scoparia compared with the model, the urinary output, the excretion of creatinine and urine nitrogen, clearance rate of penetration material and endogenic creatinine were prominently improved in the end of the experiment.

Keywords: Key words: Endotoxin Acute Renal Failure Injection of Compound Honeysuckle Injection of Herba Artemisiae Scoparia Prevention and cure Effect

收稿日期 2009-09-07 修回日期 2009-10-20 网络版发布日期 2010-02-05

DOI:

基金项目:

扩展功能

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