



赵翡翠, 李杰, 吴超, 卢军, 李娟, 聂继红. 新疆准噶尔乌头及其炮制品对CIA大鼠治疗作用的实验研究[J]. 中国现代应用药学, 2012, 29(12):1061-1066

新疆准噶尔乌头及其炮制品对CIA大鼠治疗作用的实验研究

Research on Aconitum Soongaricum and Its Processed Products Treatment for CIA Rats

投稿时间: 2012-02-21 最后修改时间: 2012-08-18

DOI:

中文关键词: [准噶尔乌头](#) [炮制品](#) [胶原性关节炎](#) [白介素2](#) [唾液酸](#) [肿瘤坏死因子](#)

英文关键词: [Aconitum soongaricum](#) [processed product](#) [collagen-induced arthritis](#) [interleukin-2](#) [sialic acid](#) [tumor necrosis factor- \$\alpha\$](#)

基金项目: 自治区自然科学基金项目(2011211A092); 自治区中医药管理局中医民族医药青年科技人才专项课题(2010ZMY03); 国家自然科学基金项目(30960514)

作者	单位	E-mail
赵翡翠	新疆医科大学附属中医医院, 乌鲁木齐 830000	zzfcc@126.com
李杰	新疆医科大学, 乌鲁木齐 830011	
吴超	新疆医科大学, 乌鲁木齐 830011	
卢军	新疆医科大学附属中医医院, 乌鲁木齐 830000	
李娟	新疆医科大学附属中医医院, 乌鲁木齐 830000	
聂继红*	新疆医科大学附属中医医院, 乌鲁木齐 830000	xjnjh411@163.com

摘要点击次数: 91

全文下载次数: 83

中文摘要:

目的 观察准噶尔乌头及其炮制品对II型胶原诱导的关节炎(CIA)大鼠治疗作用。方法 设空白对照组、模型组、阳性对照组(醋酸地塞米松片6 mg·kg⁻¹)、准噶尔乌头及其3种炮制品高、中、低剂量组。除空白对照组外, 其余各组均采用牛II胶原乳剂和弗氏完全佐剂(FCA)诱导大鼠CIA模型。各组于造模致炎后灌胃给药, 连续6周。观察各药对CIA大鼠关节肿胀率的影响。采用ELISA法检测各组血清中IL-2、SA、TNF- α 的含量。取CIA大鼠膝关节滑膜组织病理切片行染色后, 采用光学显微镜观察滑膜组织的病理改变。结果 ①与空白对照组比较, 模型组大鼠关节肿胀率、血清IL-2、SA、TNF- α 水平均高于空白对照组(P<0.01), 大鼠关节滑膜炎性病理变化显著; ②与模型组比较, 准噶尔乌头及其炮制品可降低CIA大鼠关节肿胀率、血清中IL-2、SA、TNF- α 含量(P<0.05或P<0.01); ③与模型组比较, 准噶尔乌头及其炮制品可改善CIA大鼠关节滑膜的炎性病理改变。结论 准噶尔乌头及其炮制品具有抗炎作用。

英文摘要:

OBJECTIVE To observe the effects of Aconitum soongaricum and its processed products on collagen-induced arthritis (CIA) rats. METHODS Rats were randomized into normal group, model group, positive group, Aconitum soongaricum group and its processed products groups of high-, middle- and low-dose group. CIA rat model was established by bovine collagen II emulsion and Freund's complete Adjuvant (FCA). After inflammation, each group were given drug intragastrically for 6 weeks. Ankle swelling degree of CIA rats was observed. Content of IL-2, SA, TNF- α in serum of each group were determined by ELISA method. CIA rats knee synovial membrane was taken to observe its histopathology changes after pathological section and hematoxylin-eosin(HE) staining. RESULTS ① The swelling degree, the content of IL-2, SA, TNF- α in model group was higher (P<0.01) than normal group. The inflammatory lesion of knee synovial membrane in model group was obvious. ② Compared with model group, the swelling degree, the content of IL-2, SA, TNF- α in Aconitum soongaricum and all of its processed products groups were lower (P<0.01 or P<0.05). ③ Compared with model group, Aconitum soongaricum and all of its processed products groups could ameliorate inflammatory lesion of CIA rats' knee synovial membrane. CONCLUSION Aconitum soongaricum and all of its processed products groups are proved to be anti-inflammatory.

关闭

北京勤云科技发展有限公司