中国中药杂志
China Journal of Chinese Materia Medica

异甘草酸镁抗小鼠接触性过敏性皮炎的药效学研究

投稿时间： 2009-10-12 责任编辑：张宁宁 点此下载全文

引用本文：徐建国,刘继勇,彭程,刘亚明,胡晋红.异甘草酸镁抗小鼠接触性过敏性皮炎的药效学研究[J].中国中药杂志,2010,35(10):1311.

DOI：10.4268/cjcmm20101020

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基金项目:国家自然科学基金项目(30801557)

中文摘要:目的: 考察异甘草酸镁注射液对小鼠接触性过敏性皮炎(allergy contact dermatitis, ACD)的治疗作用。 方法 :采用1% 2,4-二硝基氟苯(DNFB)对小鼠腹部致敏和耳部激发建立小鼠接触性过敏性皮炎模型,各组动物于致敏后开始尾静脉注射给药。激发后24 h考察耳部水肿红斑评分,检测耳肿胀度变化,检测激发后血清INF-γ,IgE,IL-4等细胞因子水平,并对耳部皮肤组织进行病理组织学检查。 结果 :异甘草酸镁注射液中、高剂量组及阳性对照组较模型组能显著降低小鼠耳部肿胀度,显著抑制小鼠耳部水肿红斑形成($P<0.05$),异甘草酸镁注射液高剂量组和阳性对照组能显著降低血清INF-γ水平($P<0.05$)和IgE水平($P<0.05$)。异甘草酸镁注射液还能明显改善耳部组织的炎性细胞浸润、血管扩张等炎症性病理改变。 结论 :异甘草酸镁注射液对小鼠接触性过敏性皮炎有治疗作用,这种作用可能与降低INF-γ和IgE的分泌有关。

中文关键词:异甘草酸镁注射液 过敏性接触性皮炎 干扰素γ

Effect of magnesium isoglycyrrhizinate on allergycontact dermatitis(ACD) in mice

Abstract: Objective : To investigate the effect of magnesium isoglycyrrhizinate(MgIG) on allergy contact dermatitis(ACD) in mice. Method : The model of ACD was sensitized and challenged by 1% dinitrofluorobenzene(DNFB).48 SPF grade mice were divided into 6 groups randomly: a control group,a model group, three dosage groups and a positive group. The drug was injected through vena caudalis. The change of ear's swelling and the scores of ear's thickness and erythema of each mouse was observed. The level of INF-γ, IgE, IL-4 in serum was detected by ELISA method. Then the pathologic change of mice ears was using HE staning examined under light microscope. Result : MgIG could decrease ($P<0.05$) the ear's swelling, the scores of ear's thickness and erythema, and INF-γ and IgE level in mice serum. It was observed that MgIG could significantly alleviate the infiltrate of inflam cell and the hemangiectasis in ear tissue. Conclusion : Certain concentration of MgIG has significant therapeutic effect on ACD in mice.Therapeutic mechanism of MgIG may be relevant with the suppression of INF-γ and IgE.

keywords:magnesium isoglycyrrhizinate(MgIG) allergy contact dermatitis(ACD) INF-γ

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