



BN大鼠用于评价中药注射液速发型过敏反应模型的建立及适用性评价

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中文摘要:以清开灵注射液、双黄连注射液、黄芩苷、绿原酸为受试样本,以豚鼠为对照,通过观察BN大鼠(brown norway rats)过敏反应的特异性来建立中药注射液速发型过敏反应动物模型,并对两者在评价中药注射液过敏反应中的适用性进行比较。本研究以中药注射液为致敏原,直接对BN大鼠进行致敏和攻击后,通过观察过敏症状、过敏反应率、过敏反应程度、组织释放量、靶器官病变率和病变程度的变化,来评价BN大鼠过敏反应动物模型。结果显示中药注射剂致敏后,BN大鼠出现明显的过敏症状,血清和组织中组胺含量明显增加,肺组织和气管出现明显的病理改变,同时以青霉素和天花粉蛋白为阳性对照,也出现速发型过敏反应的表现,BN大鼠的过敏反应发生率、过敏反应程度、靶器官病变率和病变程度均显著高于豚鼠。试验结果表明BN大鼠为评价中药注射液过敏反应的适宜动物模型,且其敏感性高于豚鼠。

中文关键词:BN大鼠 速发型过敏反应 动物模型 中药注射液

Establishment and applicability evaluation of animal model which was suitable to evaluate immediate hypersensitivity induced by injections of traditional Chinese medicine in BN rats

Abstract: Qingkailing injection, Shuanghuanglian injection, baicalin, chlorogenic acid as sample, guinea pig as control, to observe the specificity of allergic response to traditional Chinese medicine(TCM) injection in BN rats and establish a suitable animal model to evaluate applicability of allergic response in BN rats and guinea pigs induced by TCM. BN rats were sensitized by TCM injection, the symptoms, the rate and degree of allergic response were observed, the level of histamine in serum and tissues were determined by ELISA assay, the rate and degree of pathological changes in target organs were observed by HE staining under light microscope. There were significant symptoms of allergic response can be in BN rats, the level of histamine in serum, lung and trachea tissues increased significantly and there were significant pathological changes in lungs and tracheas. Meanwhile, the similar symptoms of allergic response can be induced by penicillin and trichosanthin. The rate and degree of allergic response, the rate and degree of pathological changes was higher in BN rats than in guinea pigs. Compared with guinea pig, BN rat is probably more suitable animal model in evaluating allergic response to injection of TCM.

keywords:BN rats allergic response animal model traditional Chinese medicine injection

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