论著

BN大鼠和豚鼠评价双黄连注射液的过敏反应

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摘要 目的 为摸索适合评价中药过敏反应的动物,采用BN大鼠和豚鼠评价双黄连注射液过敏的反应。方法 BN 大鼠和豚鼠分为ip或iv临床等倍剂量组(分别为360及300 mg·kg⁻¹)、iv临床2倍剂量组(分别为720及600 mg·kg⁻¹)。以双黄连注射液为致敏原,分别对2种动物进行致敏,隔日1次,共3次。同时设生理盐水对照组,观察各组过敏反应症状;采用ELISA法测量血清和组织中组胺含量,旺染色法光镜下观察肺组织和气管病理改变。结果 双黄连注射液可以造成BN大鼠及豚鼠发生过敏反应,过敏反应发生率BN大鼠组明显高于豚鼠组,分别为62.86%和36.11%。双黄连注射液可使BN大鼠和豚鼠血清、肺和气管中组胺含量均明显升高,与各相应的对照组比较均具有显著性差异,同时,从数据上看,BN大鼠各组的组胺释放率均高于豚鼠各组。结论 双黄连注射液可造成BN大鼠及豚鼠发生过敏反应。BN大鼠的敏感性可能高于豚鼠,但还需进一步研究。

关键词 大鼠,近交BN 双黄连注射液 超敏反应 组胺

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Allergic response of Shuanghuanglian injection in BN rats and guinea pigs

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Abstract

AIM To establish a suitable animal model to study allergic response induced by traditional Chinese materia medica. METHODS BN rats and guinea pigs were divided into intraperitoneal injection group(ip), intravenous group(iv) given clinic equivalent dosage(360 and 300 mg·kg⁻¹, respectively for 2 kinds animals) and iv group given 2 times clinic equivalent dosage (720 and 600 mg·kg⁻¹, respectively for 2 kinds animals). Sterile saline as control, animals were sensitized by Shuanghuanglian injection every other day, totally 3 times. The symptoms of allergic response were observed, the level of histamine in serum and tissues were determined by ELISA assay and pathological changes in lungs and trachea were observed by HE staining under light microscope. RESULTS Shuanghuanglian injection could induce allergic response in BN rats and guinea pigs. The total incidence of allergic response in BN rat groups was 62.86%, which was higher than that (36.11%) in guinea pig groups significantly. Compared with control groups, the level of histamine in serum, lungs and trachea tissues of BN rat groups and guinea pig groups increased significantly, but the release rate of histamine in BN rat groups was higher than that in guinea pig groups. CONCLUSION Shuanghuanglian injection can induce allergic response in BN rats and guinea pigs. BN rats might be more sensitive than guinea pigs in evaluating allergic response induced by injection of TCMM, but further studies should be done to draw the conclusion.

Key words rats inbred BN Shuanghuanglian injection hypersensitivity histamine

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