

论文

依托泊苷对小鼠变应性接触性皮炎的影响及作用机制探讨

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摘要:

观察依托泊苷(etoposide, VP-16)对小鼠变应性接触性皮炎(allergic contact dermatitis, ACD)的抗炎作用并探讨其可能的机制。采用2,4-二硝基氟苯(dinitrofluorobenzene, DNFB)致小鼠ACD模型, 观察VP-16给药后皮肤炎症反应程度, 应用放射免疫分析法测定血清中肿瘤坏死因子 $\alpha$ (tumor necrosis factor- $\alpha$ , TNF- $\alpha$ )和白细胞介素-10(interleukin-10, IL-10)的水平, 免疫组化法测定皮肤中细胞间粘附分子(intercellular adhesion molecule, ICAM-1)的表达。结果显示, VP-16可显著降低炎性细胞浸润, 减轻炎症反应程度, 明显降低血清中炎症促发因子TNF- $\alpha$ 的水平及皮肤中ICAM-1的表达。VP-16可以有效抑制DNFB诱发的小鼠ACD, 可能通过对某些细胞因子的抑制而发挥作用。

关键词: 依托泊苷 皮炎 变应性接触性 细胞因子

Effect of etoposide on allergic contact dermatitis induced by dinitrofluorobenzene and its action mechanism in mice

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Abstract:

This study is to observe the inhibition of etoposide on allergic contact dermatitis (ACD) and explore its possible mechanism of action. Dinitrofluorobenzene was used to induce the allergic contact dermatitis in mouse ear. Three groups of animals were orally administrated with different doses of VP-16 (5, 10, and 20 mg·kg<sup>-1</sup>), separately, for six days. The degree of skin inflammatory reaction was observed by optical microscope. Expression of intercellular adhesion molecule (ICAM-1) was detected by immunohistochemical staining. Radioimmunoassay was applied to measure the serum level of tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ) and interleukin-10 (IL-10). VP-16 significantly decreased inflammatory cell infiltration and the degree of infiltration reaction, and decreased the level of TNF- $\alpha$  in serum and the expression of ICAM-1 in skin. VP-16 can significantly inhibit allergic contact dermatitis induced by DNFB. This therapeutic effect of VP-16 on murine ACD may be due to inhibiting expression of some cytokines.

Keywords: dermatitis allergic contact cytokine etoposide

收稿日期 2007-04-06 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 颜会兰

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