论著

糖皮质激素吸入对哮喘患儿外周血CD4+CD25+ 调节性T细胞水平的影响

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摘要 目的: 探讨糖皮质激素吸入对哮喘患儿外周血CD4+CD25+调节性T细胞(Tr)水平的影响。方法:采用糖皮质激素吸入治疗70例发作期哮喘患儿,应用流式细胞术检测患儿外周血的Tr细胞数。结果:糖皮质激素规则治疗后患儿外周血CD4+CD25+Tr水平(7.05%±1.61%)明显高于治疗前(5.62%

 $\pm 1.29\%$),P<0.01。完全控制组患儿外周血CD4+CD25+Tr水平最高(7.56% $\pm 1.88\%$),部分控制组患儿次之(7.09% $\pm 1.23\%$),控制不佳组患儿最低(6.11% $\pm 1.96\%$),差异均显著,P<0.05。经激素规则治疗的患儿外周血Tr水平(7.05% $\pm 1.61\%$)明显高于不规则治疗组患儿(5.91% $\pm 1.76\%$),P<0.01。结论:规则使用糖皮质激素吸入疗法可明显提高哮喘患儿外周血Tr水平,Tr水平与哮喘的激素治疗效果有关。

关键词 CD4+CD25+调节性T细胞; 哮喘; 糖皮质激素类; 吸入疗法; 儿童

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Effects of glucocorticoid inhalation on the levels of CD4+CD25+ regulatory T cells in peripheral blood of asthmatic children

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Abstract

AIM: To investigate the effect of glucocorticoid inhalation on the levels of CD4+CD25+ regulatory T cells in peripheral blood of asthmatic children. METHODS: Glucocorticoid inhalator was inhaled by 70 children with attack asthma. The levels of CD4+CD25+Tr in peripheral blood of asthmatic children were tested by flow cytometry (FCM). RESULTS: The CD4+CD25+Tr levels in peripheral blood of asthmatic children were (5.62%±1.29%) and (7.05%±1.61%) before and after of regulated glucocorticoid inhalation, respectively (P<0.01). The Tr levels were (7.56%±1.88%), (7.09%±1.23%) and (6.11%±1.96%) in the complete control group, part control group and poor control group, respectively (P<0.05). The Tr level in formal treatment group (7.05%±1.61%) was higher than that in irregular treatment group (5.91%±1.76%), P<0.01. CONCLUSION: The level of CD4+CD25+Tr is remarkable increased by regulated glucocorticoid inhalation, and the level of Tr can reflect the effects of glucocorticoid inhalation.</p>

Key words CD4+CD25+ regulatory T cells Asthma Glucocorticoids Inhalation therapy Child

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