



Transient shift toward T helper 1 cytokine production by peripheral blood mononuclear cells following successful tre atment of patients with atopic dermatitis

http://www.firstlight.cn 2006-02-03

Background: The relationship between the severity of atopic dermatitis (AD) and involvements of T helper (Th) 1 and Th2 cytokines h as not yet been clarified yet. The aim of the present study was to understand the relationship between the severity of AD and the involvement of Th1 and Th2 cytokines. Thus, we determined cytokine production in vitro by peripheral blood mononuclear cells (PBMC) obtained from patients with AD before and after treatment.

Methods: Cytokine production by PBMC obtained from patients with AD following antigen stimulation in vitro were compared before an d after treatment. Enzyme-linked immunosorbent assays were used to measure cytokines. Treatment was undertaken with topical steroids an d oral antihistamines.

Results: Interferon- γ and interleukin (IL)-12 pro-duction increased significantly after 2 weeks treatment (P < 0.005 and P < 0.05, respectively), while IL-10 production decreased significantly after 2 and 4 weeks treatment (P < 0.01). Granulocyte-macrophage colony stimulating factor and tumor necrosis factor- α production increased significantly after treatment (P < 0.05 and P < 0.05, respectively). The production of IL-1 β , IL-4 and IL-13 was not changed significantly.

Conclusions: The T cells obtained from patients that were involved in the active inflammation of atopic -dermatitis were predominately of the Th2 type and, in addition, the function of these T cells was likely to be affected by the intensity of the skin inflammation.

存档文本

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn