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#### 论文

延胡索酸酯对吞噬细胞产生超氧阴离子的调节作用

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摘要:

关键词: 延胡索酸酯 地塞米松 单核细胞 中性粒细胞 超氧阴离子

Modulatory effect of fumaric acid esters on superoxide-anion generation in human phagocytes

ZHU Ke-jian; CEN Jian-ping; LIN Ai-hua; JIN Na; CHENG Hao

#### Abstract:

Fumaric acid esters (FAE), mainly dimethylfumarate (DMF), have been shown to be highly efficacious in the treatment of psoriasis. Among the potential side effects of FAE therapy, lymphocytopenia is sometimes observed. In order to address the question whether FAE may interfere with systems of the innate defense, the modulatory role of FAE on the generation of superoxide-anion by human monocytes and neutrophils was studied by measuring the reduction of cytochrome c. Various concentrations of DMF and its metabolite methylhydrogenfumarate (MHF) were used to observe their modulatory effect on superoxide-anion generation by monocytes and neutrophils in response to bacteria (*S. aureus* and *E. coli*) and candida (*C. albicans*). Dexamethasone (DXM,  $1 \times 10^{-7}$  mol·L<sup>-1</sup>) was also studied at the same time. We found that DXM significantly inhibited superoxide-anion generation from monocytes in response to bacteria and *C. albicans*, whereas DMF and MHF (10-20 µg·mL<sup>-1</sup>) significantly increased the production of superoxide-anion in monocytes in response to the above mentioned bacteria. DXM, DMF and MHF did not affect superoxide-anion generation of neutrophils. Our data indicate that DMF and MHF enhance superoxide-anion generation in human monocytes as one of the important mechanisms of innate defense against microorganisms.

Keywords: dexamethasone monocyte neutrophil superoxide-anion generation fumaric acid esters

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