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### 细粒棘球蚴感染大鼠过敏反应中IL-10水平的初步研究

安然, 黄谋, 张秦, 郑宏\*

新疆医科大学第一附属医院麻醉科, 乌鲁木齐830054

### IL-10 Level in Allergic Rats Infected by Echinococcus granulosus

AN Ran, HUANG Mou, ZHANG Qin, ZHENG Hong\*

Department of Anesthesiology, the First Hospital Affiliated to Xinjiang Medical University, Urumqi 830054, China

摘要

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**摘要** 将40只Wistar大鼠随机均分为A、B、C和D 4组(每组10只), A组为健康对照组, B、C和D组分别腹腔注射细粒棘球蚴原头节 $5 \times 10^4$ /只。感染后6个月, D组大鼠腹腔注射白介素10(IL-10)抗体每鼠 $2.0 \mu\text{g}$ /次, 2次/d, 连续2 d。2 d后, C组和D组大鼠分别腹腔注射羊源细粒棘球蚴囊液每鼠5 ml, 激发过敏。观察各组大鼠的过敏反应。30 min后, 剖杀大鼠, 观察各组大鼠感染情况, 腹主动脉取血, 制备血清。ELISA检测各组血清中IL-10、免疫球蛋白E(IgE)和组胺水平。结果显示, B、C和D组大鼠分别有5、6和5只感染成功, A组有2只死亡。C组和D组大鼠均出现了抓鼻、喷嚏和活力下降等过敏症状。在激发过敏后30 min, C组大鼠过敏症状均好转, D组大鼠仍对刺激反应较弱, 活力下降。C组和D组大鼠血清的IL-10和IgE水平均显著高于未激发过敏的B组( $P < 0.05$ ), 其中D组的IL-10和IgE水平分别为( $142.61 \pm 43.58$ ) pg/ml和( $20.67 \pm 1.58$ )  $\mu\text{g}/\text{ml}$ , 显著低于C组( $P < 0.05$ ), D组的组胺水平为( $17.69 \pm 3.90$ ) ng/ml, 显著高于B组和C组( $P < 0.05$ ), B组和C组之间差异无统计学意义( $P > 0.05$ )。

**关键词:** 细粒棘球蚴 IL-10 过敏反应 大鼠

**Abstract:** Forty Wistar rats were randomly divided into 4 groups with 10 in each group. Group A served as normal control. The other 3 groups were injected intraperitoneally with Echinococcus granulosus protoscoleces  $5 \times 10^4$  each. Six months later, group D was injected intraperitoneally with antibody against IL-10  $2.0 \mu\text{g}/\text{time}$ , twice a day for 2 d. Two days later, rats in groups C and D were injected intraperitoneally with cyst fluid 5 ml each to induce allergic reaction. 30 min later, all the rats were sacrificed to observe the infection status and obtain peripheral blood. The level of IL-10, IgE and histamine in the sera was detected by ELISA. The results showed that 5, 6 and 5 rats in groups B, C and D were infected successfully, respectively, with 2 deaths in group A. The rats in groups C and D appeared nasal itching, sneezing and declined activity. 30 min later, the symptoms in group C got improved, but not for group D. The levels of IL-10 and IgE in groups C and D increased significantly compared to group B ( $P < 0.05$ ). The levels of IL-10 and IgE in group D were ( $142.61 \pm 43.58$ ) pg/ml and ( $20.67 \pm 1.58$ )  $\mu\text{g}/\text{ml}$ , respectively, lower than those in group C ( $P < 0.05$ ). The level of histamine was ( $17.69 \pm 3.90$ ) ng/ml, higher than that in groups B and C ( $P < 0.05$ ). There was no significant difference in histamine level between B and C ( $P > 0.05$ ).

**Keywords:** Echinococcus granulosus IL-10 Allergy Rat

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