

论著

阿苯达唑脂质体生发层单抗复合物治疗小鼠细粒棘球蚴病效果观察

牛荣丽,薛弘燮,莫红梅

新疆医科大学寄生虫学教研室!乌鲁木齐830054

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摘要

目的 评价阿苯达唑免疫脂质体 (IL - Alb)治疗小鼠细粒棘球蚴病的效果。 方法 每只小鼠感染约 10 0 0个细粒棘球绦虫原头蚴 ,80天后随机分为 5组 ,4个治疗组分别给予阿苯达唑 (Alb)、阿苯达唑脂质体 (L-Alb)、阿苯达唑亚砷脂质体 (L - Albso)及 IL - Alb,按原药 10 0 m g/ (kg.d)× 5 d ip,连续 3个疗程 ,另 1组为对照组。 治疗效果按囊重抑制率、常规病理切片、超微结构及高效液相色谱法测定囊药含量 4个指标综合评价。 结果 L - Alb治疗组 ,囊重抑制率为 80 .3% ,囊药含量为 2 .18μg/ g, 优于 Alb组囊重抑制率为 6 1.2 % ,囊药含量为 0 .76μg/ g;而 IL- Alb组的囊重抑制率为 91.45 % ,囊药含量为 5 .15 μg/ g。 组织病理损伤以 IL- Alb组较重。 结论 免疫脂质体作为 Alb载体 ,可增加药物的靶特异性 ,提高 Alb治疗细粒棘球蚴的疗效。

关键词 [免疫脂质体](#) [脂质体](#) [阿苯达唑](#) [细粒棘球蚴](#) [治疗](#)

分类号

Efficacy of Albendazole Immunoliposome Against Echinococcosis Granulosus in Mice

Niu Rong-li,Xue Hong-xie,Mo Hong-mei

Department of Parasitology; Xingjiang Medical University; Urumqi; China 830054

Abstract

Objective To evaluate the effect of albendazole immunoliposome (IL-Alb) against Echinococcus granulosus. Methods Mice infected with protoscolices of E. granulosus were divided into five groups. Four groups were treated with albendazole (Alb), albendazole liposome (L-Alb), albendazole sulfoxide liposome (L-Albso), and IL-Alb respectively at a dosage of 100 mg (Alb)/(kg·d)×5 d for 3 courses. The fifth group was established as control. The major criteria for evaluating the effects included a reduction rate of E. granulosus tissue wet weight, histopathological examination of the cysts by both light microscopy and electron-microscopy, and the content of albendazole-sulfoxide in cysts detected by HPLC. Results The efficacy of albendazole immunoliposome was significantly higher than that of albendazole liposome, and much higher than that of albendazole. The reduction rates of cyst tissue weight of IL-Alb group, L-Alb group and Alb group were 91.5%, 80.3%, 61.2% respectively as compared to control group; the concentration of Albso in cyst tissue of the above groups were 5.15 μg/g, 2.18 μg/g, 0.76 μg/g respectively (P<0.01). The histopathological damages of cysts were also found most severely in the group of IL-Alb. \{Conclusion\} Immunoliposome as a targeting carrier may significantly strengthen the therapeutic effect of albendazole on echinococcosis granulosus.

Key words [immunoliposome](#) [liposome](#) [albendazole](#) [echinococcosis granulosus](#) [therapy](#)

DOI:

通讯作者

作者个人主

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