

论著

抑制血吸虫排卵对实验感染兔循环表膜抗原检测的影响

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的: 了解循环表膜抗原阳性反应与血吸虫雌虫排卵的关系。方法: 用新西兰兔15只, 各经肤接种日本血吸虫尾蚴250条, 于感染后不同时间口服丙硫基硫脲, 对比感染前、后逐周血中用斑点-ELISA法测出的循环表膜抗原。结果: 第一组兔感染19d后开始口服丙硫基硫脲295-590mg/d, 每周连续喂药3d直至感染后第8wk, 循环表膜抗原始终为阴性。第二组兔于第46d起服同剂量, 感染后6wk时斑点-ELISA呈阳性反应持续2wk。第三组对照兔于感染后6wk开始亦出现持续2wk的斑点-ELISA阳性反应。结论: 循环表膜抗原阳性反应与雌虫排卵密切相关。

关键词 [血吸虫](#) [循环表膜抗原](#) [抑制排卵](#)

分类号

EFFECT OF INHIBITION OF WORM OVULATION IN *SCHISTOSOMA JAPONICUM*-INFECTED RABBITS ON THE DETECTION OF CIRCULATING MEMBRANE ANTIGEN

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Abstract

AIM: To understand the effect of inhibiting worm ovulation on the detection of circulating membrane antigen in *Schistosoma japonicum* infected rabbits. METHODS: Fifteen New Zealand rabbits were each infected with 250 *S. japonicum* cercariae *per cuttem* and a chemical, allyl thiourea, which inhibit egg formation was administrated *per os* at days 19 and 46 after infection. Sera were collected from rabbits before and weekly after infection and subjected to dot-ELISA for circulating antigen detection. RESULTS: Group 1 rabbits were administered allyl thiourea 295- 590 mg/d 19d post infection (*p. i.*) on 3 consecutive days per wk until 8 wk *p. i.*, no circulating membrane antigen could be detected in the blood stream throuhgout the experiment. Group 2 rabbits received the same dose of allyl thiourea as that in group 1 starting from d46 *p. i.*. Dot-ELISA positive reaction was obtained 6 wk *p. i.* and lasted for 2 wk. In Group 3 untreated infected rabbits, dot-ELISA positive reaction was also detected at 6 wk *p. i.* and lasted for 2 wk. CONCLUSION: The positive circulating membrane antigen reaction is closely related to egg laying by the female worms.

Key words [Schistosome](#) [circulating membrane antigen](#) [ovulation inhibition](#)

DOI:

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