

论著

吡喹酮对小鼠卫氏并殖吸虫童虫的疗效及T淋巴细胞的变化

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摘要

目的 探讨吡喹酮对转续宿主体内滞育童虫的杀虫效果以及吡喹酮有效治疗后感染小鼠T淋巴细胞及其亚群的变化。方法 将不同数量的江西二倍体型卫氏并殖吸虫囊蚴感染小鼠,10 d后用不同剂量、不同疗程吡喹酮进行治疗。治疗结束后7 d,剖杀检虫观察疗效以及小鼠T淋巴细胞及其亚群的变化。结果 当小鼠感染30个囊蚴,用吡喹酮400、500和600 mg/(kg·d),连续3 d给药,其减虫率分别为71.01%±10.38%、82.29%±7.92%和95.83%±3.24%;当小鼠感染80个囊蚴时,用吡喹酮600 mg/(kg·d),连续3 d给药,减虫率仅为84.49%±10.91%。小鼠经吡喹酮治疗1wk后,T淋巴细胞及其亚群开始升高,在第8周恢复正常。结论 吡喹酮对卫氏并殖吸虫童虫的疗效比成虫差,其疗效与药物剂量和小鼠感染度有关,增加剂量或增加疗程可增强杀虫效果。

关键词 [卫氏并殖吸虫](#) [小鼠](#) [吡喹酮](#) [T淋巴细胞](#) [亚群](#)

分类号

Curative Effect of Praziquantel on Juvenile *Paragonimus westermani* and the Dynamic Changes of T Lymphocytes in Infected Mice after Treatment

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Abstract

Objective To study the curative effect of praziquantel against juveniles of *Paragonimus westermani* and the dynamic changes of T lymphocytes and their subpopulations in infected mice after treatment. Methods Mice infected with metacercariae of *P. westermani* were treated with praziquantel 10 days after infection for examining the curative effect. Results Mice infected orally each with 30 metacercariae of *F. westermani* were treated with praziquantel at doses of 400, 500 and 600 mg/(kg·d) respectively for 3 d, the juvenile reduction rates were 71.01% ± 10.38%, 82.29% ± 7.92% and 95.83% ± 3.24% respectively; when the mice were infected with 80 metacercariae and treated with a dose of praziquantel 600 mg/(kg·d) for 3 d, the worm reduction rate was 84.49% ± 10.91%. T lymphocytes and their subpopulations began to increase at 1 wk and returned to normal at 8 wk after praziquantel treatment. Conclusion The efficacy of praziquantel against juvenile *P. westermani* was poorer than that against adult worms; the efficacy was relevant to the drug dosage and the number of metacercariae infected. The T lymphocytes and their subpopulations may be regarded as an index for curative effect.

Key words [Paragonimus westermani](#) [mouse](#) [praziquantel](#) [T lymphocyte subpopulation](#)

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