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## 华支睾吸虫在小鼠体内的发育观察

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### The Development of Clonorchis sinensis in Mice

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#### 摘要

从嫩江流经齐齐哈尔的水域捕捞野生淡水鱼, 采用人工胃蛋白酶消化法获取淡水鱼体内华支睾吸虫囊蚴, 灌胃感染昆明小鼠50只(35~40个/鼠), 同时设对照组(10只), 给予等量生理盐水。分别于感染后第5、10、15、20、25和30天处死小鼠, 每次8~9只, 解剖后分离虫体, 固定染色后镜下观察。同时收集小鼠粪便, 漂浮集卵法收集虫卵。结果发现, 感染组小鼠感染成功率为96%(48/50), 感染后第5、10、15、20、25和30天的虫体回收率分别为42.1%、52.6%、63.2%、62.2%、63.3%和63.2%, 感染后第20天粪便中开始发现虫卵。镜下观察发现, 感染后第15天的虫体子宫内可观察到虫卵, 第20天的虫体可观察到睾丸分支明显。

**关键词:** 华支睾吸虫, 小鼠, 发育

#### Abstract:

Freshwater fish were caught from Nenjiang River in Qiqihaer City, and examined for metacercariae of *Clonorchis sinensis* by the artificial digestion (pepsin-HCl) method. The metacercariae (35-40) were given orally into stomach to each Kunming mouse of infection group (50 mice). The mice in control group were given the same amount of normal saline. The mice were sacrificed on the 5th, 10th, 15th, 20th, 25th, and 30th day after infection. Worms were collected, fixed and stained with carmine acetate, and observed under microscope. The egg-laying capacity of *C. sinensis* was observed in mice. 96% (48/50) mice were infected with metacercariae of *C. sinensis*. The recovery rate of adult worms on the 5th, 10th, 15th, 20th, 25th, and 30th day post-infection was 42.1%, 52.6%, 63.2%, 62.2%, 63.3%, and 63.2%, respectively. The first appearance of eggs in utero and feces was on the 15th and 20th day after infection, respectively. The branch of testis in worms was observed after 20 days of infection.

**Key words:** *Clonorchis sinensis* Mouse Development

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