



### 2012年基于感染性水体哨鼠监测的血吸虫病风险区域预警

郑浩, 李石柱, 曹淳力, 张利娟, 孙乐平, 杨坤, 涂祖武, 李以义, 杨卫平, 辜小南, 吴子松, 冯锡光, 朱蓉, 许静, 肖宁, 周晓农

1 中国疾病预防控制中心寄生虫病预防控制所, 卫生部寄生虫病原与媒介生物学重点实验室, 世界卫生组织疟疾、血吸虫病和丝虫病合作中心, 上海 200025; 2 江苏省血吸虫病研究所, 无锡 214064; 3 湖北省疾病预防控制中心血吸虫病防治研究所, 武汉 430070; 4 湖南省血吸虫病防治所, 岳阳 414000; 5 安徽省血吸虫病防治研究所, 合肥 230061; 6 四川省疾病预防控制中心寄生虫病预防控制所, 成都 610041; 7 云南省疾病预防控制中心寄生虫病预防控制所, 大理 671000

### Surveillance and Response for Schistosomiasis Japonica Based on Sentinel Mice Examination for Cercariae-infested Water in Risk Regions, 2012

ZHENG Hao, LI Shi-zhu, CAO Chun-li, ZHANG Li-juan, SUN Le-ping, YANG Kun, TU Zu-wu, LI Yi-yi, YANG Wei-ping, GU Xiao-nan, WU Zi-song, FENG Xi-guang, ZHU Rong, XU Jing, XIAO Ning, ZHOU Xiao-nong

1 National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention; Key Laboratory on Parasite and Vector Biology, Ministry of Health; WHO Collaborating Center for Malaria, Schistosomiasis and Filariasis, Shanghai 200025, China; 2 Jiangsu Institute of Parasitic Diseases, Wuxi 214064, China; 3 Hubei Provincial Center for Disease Control and Prevention, Wuhan 430070, China; 4 Hunan Provincial Center for Disease Control and Prevention, Yueyang 414000, China; 5 Anhui Institute of Schistosomiasis Control, Hefei 230061, China; 6 Jiangxi Institute of Parasitic Diseases, Nanchang 330046, China; 7 Sichuan Provincial Center for Disease Control and Prevention, Chengdu 610041, China; 8 Yunnan Provincial Institute of Endemic Diseases Control, Dali 671000, China

摘要

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**摘要** 目的 利用哨鼠监测血吸虫病高风险区域的水体感染情况,并根据监测结果作出预警。方法 在湖南、湖北、江西、安徽、江苏、云南和四川等7个省47个县(市、区)选择72个易感水域监测点,分别于2012年6~7月和9月投放1组小鼠,每组20只,分成2笼,固定悬浮于水面,每次测定2 d,每天4 h,现场测定后哨鼠带回实验室饲养35 d后,在实验室解剖观察血吸虫感染情况。结果 2012年6~7月和9月在7个省47个县(市、区)设立了72个监测点,共投放哨鼠3 283只,回收并解剖哨鼠3 062只,剖检率为93.3%;共检出6个阳性点,其中2个阳性点在2次监测中均发现阳性哨鼠;阳性点总出现率为8.3% (6/72),其中6~7月份和9月份的阳性点出现率分别为8.3% (6/72)和2.8% (2/72);发现阳性哨鼠33只,哨鼠总感染率为1.08% (33/3 062),检获血吸虫成虫1 085条,阳性鼠平均虫荷为32.9条/鼠;6个阳性点主要分布在湖南(4个)和江西(2个),其中2个阳性点所在的县分别出现本地感染的急性血吸虫病或异地报告疑似当地感染的急性血吸虫病,针对6个阳性点均发出了预警并作出了现场处置。结论 2012年全年共发现6处高风险水域,监测区域的血吸虫病感染风险范围较2010年显著缩小,但部分区域的血吸虫病感染风险程度仍然较高。

**关键词:** 血吸虫病 感染性水体 哨鼠 监测预警

**Abstract:** Objective To monitor water body infestation in schistosomiasis high-risk areas with sentinel mouse technique. Methods A total of 72 surveillance sites from 47 counties were selected in Hunan, Hubei, Jiangxi, Anhui, Jiangsu, Yunnan, and Sichuan. The water infectivity of *Schistosoma japonicum* was determined in the surveillance sites by using sentinel mice during June-July and September, 2012. Results Among the 3 283 sentinel mice which were placed in 72 sites, 3 062 (93.3%) were recovered and dissected. Infected sentinel mice were found in six sites accounting for 8.3% (6/72) of the total surveillance sites, with an occurrence rate of sites with infected mice of 8.3% in June-July and 2.8% in September. 33 infected mice were discovered with a total infection rate of 1.08% (33/3 062). 1 085 adult worms were collected, with a mean worm burden of 32.9 worms per mouse in infected sentinel mice. 4 positive sites were in Hunan and 2 were in Jiangxi. Local acute schistosomiasis or suspected local acute cases which detected elsewhere were reported in 2 positive sites. Some follow-up activities were conducted in the 6 positive sites. Conclusion Compared with those in 2010, the schistosomiasis risk areas are shrinking in 2012. However, some regions are still the schistosomiasis high-risk areas.

**Keywords:** Schistosomiasis Cercariae-infested water Sentinel mouse Surveillance and Response

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