

疾病控制

2005—2006年浙江省东阳市鼠疫宿主动物监测情况分析

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摘要:

【摘要】 目的 了解东阳市鼠疫历史疫区宿主动物的种群构成、变迁及数量分布情况,为鼠疫防治工作提供基础资料。方法 采用笼夜法。对捕获的鼠类及查获的蚤类进行鉴定;计算鼠染蚤率和蚤指数;采用间接血球凝集试验(IHA)检测鼠疫F1抗体;“四步”检验法进行鼠疫病原学活体培养。结果 捕获鼠类动物1269只,隶属1目2科6属10种。褐家鼠(67.57%)为室内优势种,黑腹绒鼠(71.72%)为野外优势种,室内外鼠密度分别为1.42%和2.42%。在1197只鼠类动物中发现染蚤鼠10只,查获蚤17匹,鼠体染蚤率0.84%,总蚤指数0.01。采集鼠血清1216份,经IHA检测均呈阴性,病原学活体培养1007份,未发现鼠疫菌。结论 褐家鼠和黑腹绒鼠仍是东阳市室内外的主要鼠种,不等单蚤为主要蚤种,染蚤率和总蚤指数低于鼠疫控制标准警戒线,鼠疫F1抗体和病原学检测均呈阴性,目前未发现有鼠间鼠疫流行迹象。

关键词: 鼠疫 宿主动物 监测 染蚤率 总蚤指数

Surveillance of host animals of plague in Zhejiang Dongyang during 2005-2006

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Abstract:

【Abstract】 Objective To understand species composition, migration, distribution of the host animals in the historic epidemic areas of Dongyang, and to provide the primary data for the plague prevention and control. Methods The live trap was used in this investigation. The rats caught and the fleas collected from rats were identified, and the infection rate of rats and flea index were counted. Indirect hemorrhagic assay (IHA) was used to test the plague F1 antibody. Plague pathogen was cultured in vivo by four-step testing method. Results A total of 1269 rats were captured, belonging to 1 order 2 family 6 genus 10 species. Rattus norvegicus was the dominant species of indoor rested rats, accounted for 67.57%. While Eothenomys melanogaster Cashmere predominated in the wild with a proportion of 71.72%. And the rat density indoor and outdoor was 1.42% and 2.42%, respectively. There were only 10 rats that were found to be infected by flea among 1197 rats. And 17 fleas were collected. The infection rate of fleas to rats was 0.84%, and the total index of flea was 0.01. There were 1216 serology specimens sampled, which were all negative. No plague was isolated from 1007 specimens cultured in vivo. Conclusion R.norvegicus and E.melanogaster Cashmere were the dominant species indoors and outdoors, and Ceratophyllus anisus was the main flea. Both the flea infections rate and total flea index were all lower than the control standard precaution line of plague. No positive results were observed. So far, there is no information showing the prevalence of plague during rats in Dongyang.

Keywords: Plague Host animal Surveillance Flea infections rate Total flea index

收稿日期 2009-02-27 修回日期 网络版发布日期

DOI:

基金项目:

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参考文献:

- [1] 王晓春, 高崇华. 关于我国鼠疫疫情趋势的思考 [J]. 中国地方病防治杂志, 2003, 18 (4): 253-254.
- [2] 吴美忠. 东阳市鼠疫历史疫区啮齿动物生态调查 [J]. 医学动物防制, 2000, 16 (6): 301-304.
- [3] 吴美忠. 东阳市鼠疫历史疫区蚤类生态调查 [J]. 医学动物防制, 1999, 15 (7): 351-353.

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[4] 张丽云, 梁云, 吴爱国. 云南印鼠客蚤的地理分布特征与鼠疫流行现状 [J]. 医学动物防制, 2003, 19 (10): 377-380.

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2. 蔡松武¹, 刘文华¹, 何紫电², 叶国强², 李诺鸣³, 陈俊合⁴. 环境卫生条件对诱蚊诱卵器监测影响研究[J]. 中国媒介生物学及控制杂志, 2009,20(5): 436-437
3. 尹志英^{1, 2}, 余樟有², 沈毅¹, 李俊姬². 1985—2007年衢州市狂犬病流行情况及监测分析[J]. 中国媒介生物学及控制杂志, 2009,20(5): 464-467
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5. 张昌浩, 刘景荣, 叶艺玲. 2007年周宁县肾综合征出血热监测分析[J]. 中国媒介生物学及控制杂志, 2009,20(5): 472-474
6. 韩晓莉, 黄钢, 赵勇, 王喜明, 李红艳, 常梅. 河北省不同城市住区蝇类密度及不同诱饵监测结果分析[J]. 中国媒介生物学及控制杂志, 2009,20(4): 307-310
7. 姚苹苹¹, 徐芳¹, 朱函坪¹, 谢荣辉¹, 程胤凯¹, 梅玲玲¹, 朱智勇¹, 邓小昭², 张云², 王忠灿². 2007年浙江省鼠类感染汉坦病毒监测及病毒分离[J]. 中国媒介生物学及控制杂志, 2009,20(4): 349-351
8. 杨林¹, 张涛², 李丽³, 卢世堂³, 魏浩³, 夏清³. 宁夏回族自治区盐池县鼠疫监测及疫情分析[J]. 中国媒介生物学及控制杂志, 2009,20(4): 355-357
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12. 柴旭泽¹ (综述), 马永康² (审校). 鼠疫地理信息系统研究进展[J]. 中国媒介生物学及控制杂志, 2009,20(4): 382-384

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