本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

#### 论著

云南省蚊虫分布特点及自然感染乙型脑炎病毒的研究

邓淑珍1,2,张海林2,李金梅1,2

1 大理学院公共卫生学院(云南 大理 671000); 2 云南省地方病防治所/云南省病毒立克次体研究中心(大理 671000)

摘要:

【摘要】 目的 分析云南省蚊虫分布特点及其与流行性乙型脑炎(乙脑)等虫媒病毒的关系,为防制提供依据。方法 在云南省农村居民区住房、畜圈和野外竹林等生境捕蚊。结果 采获成年雌蚁10属88种158 909只,以库蚊、按蚊和伊蚊属蚊虫数量最多,分别占56.66%、25.35%和13.88%。在捕蚊总数中,居民区夜间捕获成蚊7属63种132 081只,其中三带喙库蚊的构成比最高(42.12%);其次为中华按蚊(23.31%);野外白天捕获成蚊5属48 种26 828只,白纹伊蚊构成比最高(31.89%),其次为圆斑伊蚊(20.21%)。对8属29种3957批131 538只雌性成蚊进行病毒分离,结果从5属17种蚊虫体内分离到乙脑病毒81株,以库蚊分离出的毒株最多(59株),占72.84%;其次为按蚊8株(9.88%)和伊蚊9株(占11.11%);曼蚊和阿蚊均为2株(各占2.47%)。分离到乙脑病毒最多的蚊种为三带喙库蚊(27株),占分离毒株总数的33.33%。结论 居民区夜间活动蚊虫群落的优势种为三带喙库蚊、中华按蚊、棕头库蚊、霜背库蚊、伪杂鳞库蚊和迷走按蚊;野外白天活动蚊虫群落的优势种为白纹伊蚊、伪白纹伊蚊、圆斑伊蚊、骚扰阿蚊和刺扰伊蚊。三带喙库蚊和白纹伊蚊分别是云南省乙脑和登革热的主要传播媒介。

关键词: 蚊虫 生态学 流行性乙型脑炎病毒 云南省

Distribution characteristics of mosquito and their natural infection with Japanese encephalitis virus in Yunnan province

DENG Shu-Zhen, ZHANG Hai-Lin, LI Jin-Mei

1 School of Public Health, Dali University, Dali, Yunnan 671000, China; 2 Yunnan Provincial Institute of Endemic Disease Control and Prevention, Dali, Yunnan 671000, China

Abstract:

[Abstract] Objective To analyze the distribution characteristics of mosquito in Yunnan province and its relationship with the arborvirus such as Japanese encephalitis (JE), and provide the scientific basis for its prevention and control. Methods Mosquitoes were collected from the residential areas and the stables of livestocks in villages at night, and bamboo forests in the day. Results A total of 158 909 adult female mosquitoes were collected, which belonged to 88 species 10 Genera, and were mainly Culex, Anopheles and Aedes, accounting for 56.66%, 25.35% and 13.88% respectively. Among them, as many as 132 081 adult mosquitoes belonging to 63 species 7 Genera were caught in the residential areas at night, in which Cx.triaeniorhynchus has the highest proportion (42.12%), followed by An.sinensis (23.31%). And 26 828 adult mosquitoes belonging to 48 species 5 Genera were caught in the field by day, and the proportion of Ae.albopictu was highest (31.89%), followed by Ae.annandalei (20.21%). A total of 131 538 female mosquitoes that belonged to 29 species of 8 Genera were divided into 3957 groups. As a result, 81 strains of JE virus were isolated from mosquitoes (17 species 5 Genera). The virus strains isolated from Culex were the most (59 strains) accounting for 72.84%, followed by Anopheles (8 strains) accounting for 9.88%, and Aedes (9 strains) accounting for 11.11%. Only two strains were isolated from Armigeres and Mansonia, accounting for 2.47%. About 27 strains JE were isolated from Cx.triaeniorhynchus, accounting for 33.33% of the total. Conclusion The dominant species in the residential areas are Cx.triaeniorhynchus, An. sinensis, Cx.fuscocephalus, Cx.whitmorei, Cx.pseudovishnui and An.vagus at night, while Ae.albopictus, Ae.pseudalbopict, Ae.annandalei, Ae.yexans and Ar.subalbatus were the dominant species in the field by daytime. Cx.triaeniorhynchus and Ae.albopictus are the main vectors of JE and Dengue fever in Yunnan province, respectively.

Keywords: Mosquito Ecology Japanese encephalitis virus Yunnan province

收稿日期 2008-04-01 修回日期 网络版发布日期

DOI:

基金项目:

### 扩展功能

#### 本文信息

- Supporting info
- ▶ PDF(396KB)
- ▶[HTML全文]
- ▶ 参考文献[PDF]
- ▶参考文献

### 服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

## 本文关键词相关文章

- ▶蚊虫
- ▶ 生态学
- ▶流行性乙型脑炎病毒
- ▶ 云南省

## 本文作者相关文章

- ▶邓淑珍
- ▶ 张海林
- ▶ 李金梅

### PubMed

- Article by Deng, S. Z.
- Article by Zhang, H. L.
- Article by Li, J. M.

通讯作者: 张海林, Email: zhangHL715@163.com

作者简介: 邓淑珍(1982-), 女,硕士研究生,从事病毒病防治研究。

作者Email: dsz2010@163.com

#### 参考文献:

- [1] 王丕玉,周红宁,吴超.云南省乙型脑炎几个重要流行区的传播媒介调查[J].中国人兽共患病学报,2007,23(6):587-589.
- [2] Moore CG, Mitchell CJ. Aedes albopictus in the United States: Ten?year presence and public health implications [J]. Emerg Infect Dis, 1997, 3 (3): 329-334.
- [3] Mitchell CJ, Niebylski ML, Smith GC, et al. Isolation of eastern equine encephalitis virus from Aedes albopictus in Florida [J]. Science, 1992, 257 (5069): 526-527.
- [4] Turell MJ, Beaman JR, Neely GW. Experimental transmission of eastern equine encephalitis virus by strains of Aedes albopictus and Ae.taeniorhynchus (Diptera: Culicidae) [J]. J Med Entomol, 1994, 31 (2): 287-290.
- [5] Dohm DJ, Logan TM, Barth JF, et al. Laboratory transmission of sindbis virus by Aedes albopictus, Ae.aegypti and Culex popiens (Diptera: Culicidae) [J]. J Med Entomol, 1995, 32 (6): 818-821.
- [6] Beaman JR, Turell J. Transmission of venezuelan equine encephalitis virus by strains of Aedes albopictus (Diptera: Culicidae) collected in north and south America [J]. J Med Entomol, 1991, 28 (1): 161-164.
- [7] Kitron U, Swanson J, Grandell M, et al. Introduction of Aedes albopictus into a La Crosse virus?enzootic size in Illinois [J]. Emerg Infect Dis, 1998, 4 (4): 627-630.
- [8] 张海林, 自登云, 龚正达. 云南省登革热流行病学调查分析 [J]. 地方病通报, 1999, 14(3): 50-54.
- [9] 王静林, 张海林, 孙肖红, 等. 云南登革热4型病毒的鉴定及NS1和NS2a基因序列分析[J]. 中国人兽共患病学报,2008,24(7):636-640.
- [10] 王静林,张海林,孙肖红,等.首次从云南蚊虫分离到辛德毕斯病毒及其鉴定[J].中国人兽共患病学报,2008,24(1):1-4.

# 本刊中的类似文章

- 1. 黄钢, 韩晓莉, 王喜明, 赵勇, 李红艳, 常梅.河北省不同地区蚊虫监测结果分析[J]. 中国媒介生物学及控制杂志, 2009,20(5): 426-429
- 2. 季恒青1,郑发文2,范洪连2.重庆市城区不同类型积水蚊幼虫孳生情况调查[J]. 中国媒介生物学及控制杂志, 2009,20(5): 477-478
- 3. 刘佳,车志军,刘永有,马卫东,郭天宇,李彩臣,曹建中,王冬辉,田洁,耿洪善,杨晓风,张继军,孙继伦,王正.北京口岸地区蚊虫监测报告[J]. 中国媒介生物学及控制杂志, 2009,20(5): 479-480
- 4. 赵瑶1,曾晓芃1,刘泽军2,于传江2,张勇1,钱坤1,薛素琴1.2008年北京市及奥运场馆蚊虫密度问卷调查分析[J].中国媒介生物学及控制杂志,2009,20(4):290-292

# 文章评论

反馈人	邮箱地址	
反馈标题	验证码	3623

Copyright by 中国媒介生物学及控制杂志