

A survey of the Outbreak of dengue Fever and Evaluation of Preventive Effect. Luo Qing-Hong, et al., Anti-epidemic Station of Guang-dong.

The epidemic of Dengue fever occurred in Bèyu district of Dongwan municipality, Cuang-dong Province, from 23 July to 10 November, 1985. It was caused by Aedes Albopictus in the families with type I Dengue fever virus. Major patients were from ten to forty-nine years. The morbidity of female was less higher than male. There was no difference in the attack rates between living floors. The episode was rapidly controlled when measures of killing mosquitoes was carried out. It showed that Breteau index can be used to evaluate the effect of measures of killing mosquitoes and estimate the epidemic trend.

Key words Dengue fever Outbreak Prevent

参考文献

1. 陆宝麟, 等. 媒介生物学和防治资料. 军事医学科学院微生物流行病学研究所 1980; 2: 21.
2. Gubler DJ, et al. Epidemic Dengue Hemorrhagic Fever in rural Indonesia. Am J Trop Med Hyg 1979; 28(4): 701.
3. Moore CG, et al. Aedes Aegypti in puerto Rico: Environmental determinants of larval abundance and relation to Dengue virus transmission. Am J Trop Med Hyg 1978; 27(6): 1225.
4. Geevarghese G, et al. Field trials for the control of Aedes aegypti with Abate in poona city and suburbs. Trop Dis Bull 1977; 74(10): 2676.

(参加工作的还有: 刘洪辉、卢敏贞、刘力群、张志炜和莞城卫生院防疫组同志)

四环素耐药基因探针的试制的初步报告

中国预防医学科学院流行病学微生物学研究所

杨月欣 童刚 刘延清 徐兆炜

国内外对细菌耐药性的检测均应用药物敏感试验来证实。随着分子遗传学的发展, 基因探针及分子杂交技术因具有高度准确性、特异性及灵敏性而得到广泛应用。国内目前还未见到耐药性基因的报道。为了给大规模耐药性监测提供先进手段, 我们试验制备了四环素耐药基因探针, 并进行了初步应用。

采用含PBR₃₂₂的大肠杆菌菌株, 按 Tritonx-100法进行质粒提取, 然后在高盐缓冲液中, 用限制性内切酶EcoRI和Sal I双酶解, 用低熔点琼脂糖为载体制备电泳, 再在紫外灯下切取小片段四环素(Tc)耐药基因, 此片段加酚于65°C下融化后, 经一系列的纯化, 用 α -³²P标记。待检菌株在硝酸纤维素膜上生长, 经处理后, 在5×Denhard液中与变性的探针DNA做原位杂交, 最后在增光屏曝光盒中放射自显影。

在杂交结果(附表)的分析中, 我们认为, 此方法有较高的准确性和特异性, 一次制备获得的探针可供几次试验使用, 每次能检测50~100株细菌, 在大量菌株的耐药性监测和流行病学资料的分析中尤为方便, 经济上并不太昂贵。

附表 部分菌株原位杂交结果和药敏结果

| 菌号 | 菌种 | 来源 | Tc探针原位杂交 | 药敏(Tc) |
|------|----|------|----------|--------|
| 53 | 痢疾 | 北京海淀 | + | R |
| 70 | 痢疾 | 北京海淀 | + | R |
| 72 | 痢疾 | 北京海淀 | ++ | R |
| 42 | 痢疾 | 北京密云 | ++ | R |
| 1485 | 大肠 | 标准株 | - | S |