

祸和减少伤亡的主要措施。

An Epidemiological Study on Traffic Accident in Guangzhou Wang Shengyong, et al, Department of Epidemiology, Medical College, Jinan University, Guangzhou 510632

This report showed the general mortality of traffic accident and changes of its distribution from 1974 to 1990 in Guangzhou. The incidence rate per 10 000 registered vehicles, mortality and injury had been tending to fall during the interval. Since 1987, the average rate of decrease per year was 24.27%.

The type of collision between automobiles was in the majority. The rate of deaths and injuries per accident involved bicycles or pedestrians was the highest. The percentage of crash between automobile and non-automobile, that between automobile and bicycle, and that between automobile and pedestrian tended to rise in recent years. The result of this study indicated that the adminis-

tration of traffic safety in Guangzhou had gained marked success in the last few years. Traffic accident has become one of the grave problems of social safety and public health along with the increase of population and vehicles in modernized city.

Key words Accident, Traffic

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LB₄-I型冷背包保存脊髓灰质炎疫苗活性的性能测定

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LB₄-I型冷背包是简易的冷藏设备, 是目前冷链系统中不可缺少的最末一环, 已在基层中广泛使用。而脊髓灰质炎(脊灰)疫苗是一种热稳定性较差的疫苗。我们于广州日平均温度为31.5℃~32.5℃的8月份, 对此型冷背包保存脊灰疫苗活性的性能进行了测定, 现报告如下。

一、测定方法: 测定用新购置的未使用过的LB₄-I型冷背包, 按每天开盖2、4、6次分成三组, 每组两个冷背包, 放入批号为89-9-9, 中科院生研所生产的脊灰疫苗, 每个冷背包放5包, 另取2包测效价作为此批疫苗的基础效价, 并于每天上午同一时间从各冷背包取出一包脊灰疫苗测其效价, 同时观察室温和冷背包每次开盖时的温度。

二、结果: 冷背包空载时的原始温度为-2℃, 脊灰疫苗基础效价为6.38LogTCID₅₀/粒, 24、48、72、96、120小时冷背包平均温度分别为-0.7、2.3、22.7、30.3、31.7℃; 而脊灰疫苗效价分别为6.31、6.18、6.09、5.86、5.82LogTCID₅₀/粒, 48小时开盖2、4、6次冷背包的平均温度分别为1℃、2℃、4℃。

这次测试表明: 在炎热的夏季, 脊灰疫苗在LB₄-I型冷背包内最长保存时间应为24小时; 冷背包在使用过程中开盖次数尽量少, 开盖时间尽量短; 脊灰疫苗随着冷背包温度的上升, 其效价逐渐下降。

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