## Abstract

"Glass cylinder" and "glass house/chamber" were used to test efficacy of commercial insecticides to Dengue vecors, Aedes aegypti and Ae. albopcitus.Later, a standard operation procesure for dengue emergency spray was proposed. The test result from glass cylinders found that in the particle sizes of 10-12 microns without screen plate for 15 seconds, 24 hour mortality after spray were 100% for both speces; however, the efficacies of larger particle sizes produced with screen plate for 15 seconds had poor results in some insecticides to Ae. aegypti. Effacacy of insecticides from glass chamgers depend on spray machines and location of mosquitoes collected. Our conclusion is that insecticide resistance of Ae. aegypti in Taiwan is temperotary and localized, a simple efficacy evaluation should include in the routine dengue emergency spray procedures and insecticide management should conduct every year to ensure the spray quality.

Keywords : Aedes aegypti ; Aedes albopictus ; Dengure emergency spray