

Insecticide susceptibility tests in Timor-Leste

- Objective – To establish insecticide susceptibility status of the malaria vectors to insecticides considered for impregnation/treatment of bed nets, and/or Insecticide Residual Spraying



Insecticide resistance-2007



An. subpictus

- Susceptible insecticides
deltamehrin
Permethrin
Lambda-cyhalothrin
DDT need confirmation
malathion need confirmation

An. barbirostris, An. minimus, An. maculatus

- Susceptible insecticide
deltamehrin

Insecticide resistance -Result

Species	Insecticide	No Of Mosquito				Mortality rate	Suceptibility
		treatment		Control			
		No tested	No Dead	No of tested	No Dead		
<i>An. Subpictus</i>	Delthametrine 0.05%	100	99	100	2	99%	S
	Permethrine 0.75%	100	98	100	2	98	S
	Lambdacyholotrine 0.05%	100	100	100	0	100%	S
	DDT	40	39	40	40	97.50%	Need to Confirm
	Malathion	40	40	40	39	100%	Need to Confirm
	Fenitrothion	100	98	100	2	98%	S
<i>An. Barbirostris</i>	Delthametrine 0.05%	50	50	50	0	100%	S
<i>An. Maculatus</i>	Delthametrine 0.05%	100	98	100	1	98%	S
<i>An. Minimus</i>	Delthametrine 0.05%	100	98	100	2	98%	S
<i>An. Vagus</i>	Delthametrine 0.05%	100	100	100	0	100%	S
<i>An. Barbirostris</i>	DDT	100	100	100	0	100%	S
<i>An. Maculatus</i>	DDT	100	100	100	0	100%	S
<i>An. Minimus</i>	DDT	100	100	100	0	100%	S
<i>An. Vagus</i>	DDT	100	100	100	0	100%	S

Bio-assay test on LL-INS

Species	Mortality on Permethrine		Mortality on Delta-	
	New Net	old net	New Net	old net
<i>An. Subpictus</i>	100%	NA	100%	50%
<i>An. Barbirostris</i>	100%	NA	100%	50%

