Resistance to organophosphate and carbamate insecticides in two populations of Anopheles albimanus (Diptera: Culicidae) of Panama

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A survey of the degree of sensitivity of Anopheles Albimanus to organophosphate and carbamate insecticides was made in the locations of Aguas Claras in the region of Madugandi and Felipillo in the province of East Panama. Because currently The Vectors Control Program of the Health Ministry of Panama expressed the need of this kind of survey of the degree of sensitivity of Anopheles Albimanus in some regions of the country. Determine the degree of sensitivity to organophophates and carbamates in two populations fields of Anopheles Albimanus of Panama. Samples of the first generation (F1) of Anopheles Albimanus collected from the two selected locations were exposed to bioassays of sensitivity of organophosphorus (fenitrothion) and the carbamate (propoxur) according to the standadized test of the World Health Organization for adult mosquitoes. The two strains of Anopheles Albimanus were susceptible to the fenitrothion and propouxur insecticides. The results of this survey provide to the planning of new strategies about the use of insecticides, thus extending the useful life of insecticides in use.

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