

Effect of crude extract from seeds of *Annona squamosa* Lin.

on mortality of flies, mosquitoes and cattle ticks

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Abstract

Five experiments aimed to study the efficiency of different levels of crude extract of seed of *Annona Squamosa* Lin. on mortality of fly larvae, flies, mosquito larvae, mosquitoes and cattle tick under laboratory condition. Five experiments were performed at different concentrations of 0, 10, 20, 30, 40 and 50 grams of annona seeds / 1 liter of water. Extraction was conducted by drying the annona seeds in room temperature for 3 days, grinding and weighing the dried materials of 10, 20, 30, 40 and 50 grams. The weighed materials were immersed in 1 liter of liquid that comprising 1 part of alcohol (95%) and 9 parts of water for 24 hours. Spraying technique was applied for substance of all experiments excepted mosquito larvae was immered. The results showed that different levels of crude extract were different in killing insects. Crude extract since 40 grams / 1 liter of water was suitable to kill fly larvae and flies, the death was not difference with heigher concentration ($p>0.05$) at 72 hours and 90 minute respectively. Crude extract since 30 grams / 1 liter of water was suitable to kill mosquito larvae, mosquitoes and cattle ticks, the death were not difference with heigher concentration at 4, 4 and 84 hours respectively. These experiments indicated that the level of concentration was the suitable killer for different insects and the insects in adult stage would be die faster than larvae stage when applied with crude extract.

Key words : Crude extract, Annona seeds, Flies, Mosquitoes, Cattle

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