

Influence of the Effectiveness of Marigold Flower Pistil Powder on Mosquito Repellent

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Abstract

Aedes aegypti mosquito bites can cause dengue fever, eradicate the vector's life cycle, by killing mosquito larvae, using fogging, abate powder, which has an effect on the environment. Researchers were looking for a natural larvicide solution that was safe and effective. Researchers looked at marigold plants at the research location. Marigold plants contain essential oils that are effective as larvicides on Culex quinquefasciatus, Anopheles stephensi and Aedes aegypti mosquitoes. Quasi-experimental research, cross sectional study design. The aim is to find out: The effect of the effectiveness of marigold flower pistil powder on mosquito repulsion. The research location is in a room where there is a mosquito net box containing 120 mosquitoes, almost all of them (90%) were found. 108 mosquitoes avoided and the remaining 12 (10%) mosquitoes landed from a total of 120 mosquitoes. in a mosquito net box with 2 grams of marigold flower pistil powder in under 10 minutes. The results of the Chi-square analysis obtained a value of $P = 0.04 < \alpha 0.05$, statistically there is a significant positive effect between marigold flower pistil powder on the ability to avoid mosquitoes, with an odds ratio = 4.10 times. So that people get used to it, put marigold flower pistil powder in the room to repel mosquito.

Keywords

Marigold Flower Pistil Powder, Mosquitoes, Aedes Aegypti

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