عنوان مقاله:

Comparing Larvicidal Effect of Methanolic Extract of the Different Parts of Henbane (Hyoscyamusniger L.) Plant on Anopheles spp Larvae in Vitro

محل انتشار:

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خلاصه مقاله:

Background & Aims of the Study: Malaria is an infectious disease by fever, chills and anemia; and splenomegaly genus Plasmodium parasite is the agent of it. One of the easiest and leastexpensive methods for prevention of this disease is removing the vector that usually has beendone by insecticides and chemical pesticides, but now days due to the harmful effects of toxicchemicals, it is currently trying to use organic toxic and plant compounds in order to combat thepests. So, in this study Hyoscyamus niger was used in order to destroy the larvae of this insectand positive results were compared these plants together. Materials and Methods: Hyoscyamus niger was collected and dried to extract by methanol in arotary evaporator. Mosquito larvae were collected from stagnant water pits and ponds around the Birjand city, South Khorasan of Iran in order to apply the relevant tests identity and isolated Anopheles spp mosquito larvae. Results: Hyoscyamus niger positive effect was destroying on the Anopheles spp larvae and between obtained results, the most powerful extract for destroying the mosquitoes Anopheles spplarvae was the flower extract of henbane (LC50=0.07) and the weakest extract was the extract of henbane as a toxic, organic and natural compound to fight the larvae of Anopheles spp mosquito larvae which used in the other parts of these plants more stronger and .more effective

كلمات كليدى:

MalariaAnopheles spplarvaeHyoscyamus niger LHenbaneIran

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