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**Efficacy of aqueous neem leaf extract on house fly *Musca domestica* (L.)
(Diptera: Muscidae).**

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House fly, *Musca domestica* (Linnaeus) is a major vector of many important pathogenic organisms of man and domestic animals. The increasing biomagnification of the synthetic chemical pesticides on non target organisms leads to the search for eco-friendly and biodegradable pesticides such as products obtained from certain medicinal plants. Previous studies have revealed that products extracted from neem plants are very effective against certain insect pests. In order to find an effective and eco-friendly control method for the control of the housefly *M. domestica*, this study was conducted to evaluate the efficacy of aqueous neem leaf extracts on its developmental stages.

Pork pieces (5 g) were soaked in 1:10 (w/v); 1:5 (w/v) and 1:1 (w/v) of freshly prepared aqueous neem leaf extracts and 5 ml of distilled water (control) separately, and kept in plastic bottles (500 ml) for oviposition and as a food substrate for larvae of *M. domestica*. A ten percent multivitamin syrup (5 ml) and sugar solution was used as food for the adult fly. A pair of adult flies (one day old) was introduced into each bottle with the treated pork pieces. After two days of treatment, the number of emerged larvae in each bottle were counted and kept until the emergence of adults. The number of pupae and the emerged adults were counted and deformities were also noted. Three replicates were carried out under laboratory conditions at temperatures 26 ± 2 °C and 65 - 75 % Relative humidity. Data were analyzed using analysis of variance (ANOVA) and t-tests.

It was found that at 1:1 (w/v) the aqueous neem leaf extract showed a significant reduction ($P < 0.05$) in the number of larvae and that 40 % of the larvae failed to pupate resulting in the reduction of emerging adults. Thus, it could be concluded that the aqueous neem leaf extract at 1:1 (w/v) has a potential effect on house fly by affecting its larva, pupa and adult stages.