



- Current Issue
- Browse Issues
- Search
- About this Journal
- Instruction to Authors
- Online Submission
- Subscription
- Contact Us
- RSS Feed

Acta Medica Iranica

2009;47(4) : 9-19

STUDIES ON THE IRRITABILITY OF A FIELD POPULATION OF ANOPHELES MACULIPENNIS AND ANOPHELES SUPERPICTUS TO DDT

N. Eshghy

Abstract:

A series of DDT irritability tests with adult *A. maculipennis* typicus and *A. superpictus* were carried out in the Isfahan area in August-September, 1970. The observations on irritability were measured in accordance with the WHO method and the natural populations of anopheline mosquitoes were used. The tests were carried out in a light intensity of approximately 8 foot candles. The engorged mosquitoes were captured in various villages that had not been treated with DDT since 1964. Note was taken of the number of take-off by anopheline mosquitoes from the impregnated filter paper during a period of 15 minutes. The temperature of the testing room was approximately 25°C.-27°C and the tests were carried out between 9 a.m. and 2 p.m. It was noted that there was a great difference in the average number of take-offs between the control mosquitoes and the mosquitoes exposed to DDT. The average number of take-offs for *A. maculipennis* exposed to 2% DDT was observed to be between 17.1 and 21, and for 4% DDT, between 25.95 and 26.8; for *A. superpictus* exposed to 2% DDT, it was between 17.8 and 21. The average number of take-cm-s, for the control group was between zero and one. The levels of irritability for the strains of *A. maculipennis* and *A. superpictus* were about the same with no statistically significant difference in irritability for 2% DDT. However, significant difference in irritability was observed with *A. maculipennis* exposed to 2% and 4% DDT.

Keywords:

[A.m aculipennis](#) , [A. superpictus](#)

TUMS ID: 1881

Full Text HTML Full Text PDF 323 KB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
Central Library & Documents Center
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions