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

Acta Medica Iranica
2009;47(4) : 13-17

LABORATORY PROTECTION RATE OF TORN BEDNETS TREATED WITH THREE DOSAGES OF PYRETHROIDE AGAINST ANOPHELES CULICIFACIES

G. Babaee, M. R. Sedaghat-Larijani, M. Keshavarz, M. Parinia P. Ashkvari

Abstract:

Evaluated under laboratory condition. The objective of the present study was to observe the effect of impregnated torn bednets on the number of bites by An. culicifacies A glass made tunnel test was designed to The effect of torn bednets treated with three dosages of cyfluthrin 5% EW, were induce hungry female mosquitoes to pass through holes cut in the pyrethroid treated nets. A guinea pig used as bait to attract mosquitoes through circular holes in the netting. With untreated netting, 72-87% of laboratory-reared females passed through the holes overnight, 64-92% blood-fed successfully and 0.3/9-4/3% died. When the netting was treated with cyfluthrin at doses of 25, 50 and 100 mg a.i./m2, the entry Index (the proportions that passed through the holes overnight) were 43.37%, 42.82% and 24.72%; mortality rates were 66.31%, 81.45% and 95.99%; and the feeding rate were 45%, 27% and 3%. In conclusion it should be stressed that efficacy of pyrethroid impregnated bednets using “Tunnel Tests” showing acceptable protection rate both in lower and higher dosages as well as cause dead in the blood-fed mosquitoes. In addition, the higher dosages of these three dosages pyrethroid provided good levels of protection against An. culicifacies.

Keywords:

Anopheles culicifaciace ، torn impregnated nets ، cyfluthrin

TUMS ID: 3437

Full Text HTML Full Text PDF 164 KB

top