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### A COMPARATIVE STUDY ON SUSCEPTIBILITY OF THE LARVAE OF TWO WILD STRAINS OF ANOPHELES STEPHENSI TO EIGHT INSECTICIDES, IN SOUTH OF IRAN

H.Ladonni, M. Limuei, M. Shaeghi, Z.Talmodarie

#### Abstract:

Susceptibility of two wild strains of *An. stephensi*, collected from Kazeroun (ST-K.Az and Bandar-Abbas (ST-BAN), south of Iran was compared to fenitrothion, malathion, temephos, pirimiphos, methyldiazinon, deltamethrin, DDT dimilin and etopenprox as larvicides in the laboratory. Susceptibility test on the ST-KAZ strain indicated that this strain is susceptible to the named insecticides i.e. the resistance ratios remained between 0.91 to 1.37 folds that of the ST-TEH strain, the susceptible laboratory stock. The ST-BAN strain has the long history of insecticide — application like, DDT, dieldrin, malathion, propoxur, actellic lambda-cyhalothrin (icon) as adulticides and abate as a larvicide, therefore it showed different pattern of susceptibility to the latter insecticides. The ST-BAN strain showed susceptibility to DDT, deltamethrin, etopenprox and dimilin, moderately tolerant to fenitrothion and temephos (i.e. resistance ratios ranged between 1.67 to 1.75 folds) and tolerant to Pirimiphos-methyl and malathion with resistance ratio of about 2.37 folds, that of the ST-TEH strain. The observer's tolerance in the ST-DAN strain to Pirmiphos-methyl (actellic) and malathion might be as the result of regular use of adulticides or abate in malaria control programs in south of Iran and develop of cross-tolerance in *An.stephensi* from Bandar-Abbas south of Iran.

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