



ReseARCH RTICLE

The combined medicinal plants extracts as alternative for control external parasites of cattle in Vellore district of Tamil Nadu

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indica, Acalipa indica, Leucas aspera, Ocimum sanctum, Thespesia populea, Datura metel, Cynodon dactylon, phyllnanthus niruri, Morinda pubescens, Aegle marmelos, Cordia oblique, Polygala chinensis, Abutilon indicum, Sesbania grandiflora, Jatropha curcas, Pongamia pinnata, Kalanchoe pinnata, Anona squamosa, Vitex negundo, Lantana camara, Acorus calamus and Curcuma domestica and Nicotina tabacum to control the Hippobosca maculate, the external parasites of cattle. Trials on the aqueous medicinal plants extract with dilution of 25 per cent, 50 per cent and 100 per cent were conducted for 60 cattle on their external skin surface to assess the insecticidal efficacy on the Hippobosca maculata. The chemical insecticide Cybermethrin was tested as a control with a dilution of 1:1000. The in vivo and in vitro trials using both aqueous medicinal plants extract and Cybermethrin were carried out to compare the insecticidal and repellent effects on external parasites in cattle. The test results of 50 per cent medicinal plants extract shows that the cidal effects on Hippobosca maculate, the external parasites in cattle are same as that of recommended dose of chemical insecticide. By this study it was concluded that the aqueous extract of medicinal plants can be effectively used as alternative to chemical insecticide for treating the control of Hippobosca maculata in cattle for insecticidal and repellent effects and improve the behaviour of cattle towards docile so as to quicker the milking operation in cross bred cattle.

Abstract: An aqueous extract of medicinal herbs was prepared from leaves of *Azardirachta*

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ICAR-Krishi Vigyan Kendra and Agricultural Research Station, (TNAU), Virinjipuram, VELLORE (T. N.) INDIA Email: samyvet1@yahoo.co.in; samyvet2@rediffmail.com **Key words:** Extract of medicinal herbs, Medicinal plants extract, Insecticidal, Repellent effects on external parasites in cattle, Milking behaviour, Milking temperament score, *Hippobosca maculata*

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