

**EFFICACY OF INDIGENOUS PLANT
AZADIRACHTA INDICA IN CANINE DERMATITIS**



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*Thesis submitted in
part fulfilment of the
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**MASTER OF VETERINARY SCIENCE
in
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to

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**CENTRE OF ADVANCED STUDIES IN
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MADRAS VETERINARY COLLEGE
TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY
MADRAS - 600 007**

1996

CERTIFICATE

This is to certify that thesis entitled "**EFFICACY OF INDIGENOUS PLANT AZADIRACHTA INDICA IN CANINE DERMATITIS**" submitted in part fulfilment of the requirements for the degree of **MASTER OF VETERINARY SCIENCE** in **Clinical Medicine and Therapeutics** to the Tamil Nadu Veterinary and Animal Sciences University, Madras is a bonafide research work carried out by **Thiru M.SHUNMUGANATHA PANDIAN** under my supervision and guidance and that no part of this thesis has been submitted for the award of any other degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journal or magazine.

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ABSTRACT

EFFICACY OF INDIGENOUS PLANT *AZADIRACHTA INDICA* IN CANINE DERMATITIS

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The study entitled "**Efficacy of indigenous plant *Azadirachta indica* in canine dermatitis**" was carried out in 18 dermatitis affected clinical cases attended at small animal unit of Madras Veterinary College Hospital, 18 animals affected with dermatitis comprised the experimental group and six animals were taken as the control group. Three types of treatment regimen were selected for the treatment of dermatitis in different groups of both experimental and clinical cases as follows:

- a. Treatment with topical application of crude extract of neem leaves mixed with liquid paraffin.

- b. Treatment with topical application of crude extract of neem leaves mixed with liquid paraffin along with intra muscular injection of streptopenicillin.
- c. Treatment with topical application of crude extract of neem leaves mixed with liquid paraffin along with intramuscular injection of gentamicin.

Gross examination, haematology, biochemical examination (BUN, Creatinine, Total protein, Albumin, Globulin and Glucose) and histopathological examinations of skin samples obtained by using biopsy punch were carried out both before and after the treatment schedule and the treatment period consisted ten days. Documentation of gross appearance and histopathological changes before and after the treatment were carried out.

Neem application was found successful in dermatitis cases and neem with injection streptopenicillin administration resulted in a better response among all groups.