

Clinical efficacy of the Chew Tab – Sarolenar based on clinico-immuno-oxidative parameters in dogs infected with flea allergic dermatitis

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Out of 80 conformed flea allergy dermatitis infected dogs, only 10 dogs were selected for the evaluation of clinical efficacy of Chew Tab-Sarolenar on flea allergic dermatitis. General clinical examination, revealed that the average characteristics of population having different breeds, of both sexes, weighing at least 6 kg, with minimum age of 8. In order to evaluate the effects of treatments on clinical expression, all the dogs were clinically examined on Days 0, 14, 28 and 56 for evaluating of flea count, skin lesion score and pruritus score by pre described methods respectively. All the Laboratory evaluation was performed at Clinical laboratory of Division of Medicine, IVRI, Bareilly. Immunological based tests (IgM, IgM and IgA), Mast cell proteases viz Chymase activity, Carboxypeptidase and histamine and oxidative parameters superoxide dismutase and lipid peroxidation, catalase activity and GSH-Px activity was determined on Days 0 14 28. LFT and KFT were also evaluated for safety purposes on the same days. Overall significant findings of the study were Chew Tab- Sarolenar has better effectiveness to resolve the clinical expression with efficacy of 89.16%, 99.8% and 100% on days 14, 28 and 56 respectively and insecticidal efficacy was 55.81%, 79.94% and 99.8% on same days respectively Chew Tab-Sarolenar showed highly significantly efficacy of reduction in the puritius score in less time duration. LFT and KFT parameters were non-significant differences between the infected and control groups. Estimation of oxidant-antioxidant profile and Immunologic parameters showed significant ($p<0.05$) variability as compared to control healthy dogs.

Biography

Dr. Alok Kumar Chaudhary is presently working as Assistant professor as permanent faculty member of the Department of Veterinary Medicine at Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan, Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura-281001. His highest qualification is PhD (Veterinary Medicine) in the area of Canine Dermatology. His research interests are microbes/allergen associated skin immunology, immunotherapy, monoclonal antibody, genomic, proteomic and cytokines in canine. This research is a part of his Ph.D Thesis that was recently completed from ICAR- Indian Veterinary Research Institutes Bareilly India.