

PARASITOLOGY

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The efficacy of selamectin in treatment of *Ancylostoma ceylanicum* experimental infection in cats

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The efficacy of selamectin single topical dose against adult of *Ancylostoma ceylanicum* in cats following induced infections was assessed. Twelve cats were each inoculation with 300 infective third-stage larvae of *A. ceylanicum*. Cats were randomly allocated by egg count into control and treatment groups. The cats in the treatment group were each treated with a spot on selamectin administered topically at recommended label dose rates. The cats in the control group were not treated. Egg counts were performed until the end of the study period and compared for the treated and control groups. No eggs were detected in the treated group of cats within 4 days of treatment and fecal samples from this group remained negative throughout the rest of the study, resulting in a treatment efficacy (egg reduction) of 100% ($P < 0.0001$). The mean egg counts remained high (558 ± 231 eggs per gram) in the untreated control group for the rest of the study period. This study showed that based on fecal egg count reduction, the spot on selamectin given at the recommended dose is highly effective against infection with *A. ceylanicum* in cats.

Biography

Piyanan Taweethavonsawat is an Assistant Professor in Veterinary Parasitology from Chulalongkorn University, Bangkok, Thailand. His fields of interested are Helminthology and Vector borne disease. He has completed his PhD from Faculty of Tropical Medicine, Mahidol University. Currently he is the Head of Parasitology Unit, Department of Pathology, Faculty of Veterinary Science, Chulalongkorn University.

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