

Seresto Dog Collar Proves Effective in Preventing TBD Transmission

Parasitology Research has published research findings on the effectiveness of the Seresto® (imidacloprid 10% + flumethrin 4.5%) dog collar in preventing transmission of both *Borrelia burgdorferi* and *Anaplasma phagocytophilum*. Effectiveness of the prevention collar was tested on dogs in two studies using naturally infected ticks. Each study consisted of a non-treated control group as well as a group treated with the Seresto® collar. All dogs were serologically tested for the presence of pathogens prior to study implementation.



The treated groups of dogs were fitted with Seresto® collars two months prior to tick infestations. All dogs were exposed to ticks that were naturally infected with *B. burgdorferi* and *A. phagocytophilum*. In study 1, two of six non-treated dogs became infected with *B. burgdorferi*, and four of six tested positive for *A. phagocytophilum* after being exposed to naturally infected *Ixodes ricinus* ticks. In study two, 10 of 10 non-treated dogs became infected with *B. burgdorferi* and *A. phagocytophilum* after being exposed to naturally infected *Ixodes scapularis* ticks. None of the treated dogs in either study tested positive for *B. burgdorferi* or *A. phagocytophilum*. Transmission of both pathogens was successfully blocked for up to 7 months on dogs wearing Seresto® collars.

Investigators reported that no serious treatment-related events were found with use of the Seresto® collar in the treated groups of dogs. Only mild signs of hair loss and skin

irritation were observed, primarily in the group dogs treated for 7 months. The use of the acaricide collar showed 100% efficacy for killing ticks at 48 h for both tick species at time periods of 1, 2 and 7 months after the placement of the collar.

Authors conclude that due to its long-term efficacy, the Seresto® collar may be a valuable tool in the prevention of tick pathogen transmission to dogs.

NOTE: This article is presented for informational purposes only. The LDA does not recommend or endorse products.

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