

عنوان مقاله:

Molecular detection of *Borrelia burgdorferisensulato* in tick infested dogs in Isfahan province, Iran

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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خلاصه مقاله:

Introduction and Objectives: Lyme borreliosis is caused by *Borrelia burgdorferi* and is one of the most common vectors borne diseases transmitted by ticks and has a worldwide geographic distribution. The current study was carried out to evaluate the presence of *B. burgdorferisensulato* in blood samples of ninety-seven guard and sheep dogs in Isfahan, Iran using PCR technique. Dogs are infected to this spirochete by blacklegged tick or *Ixodes ricinus* bite. The tick has horizontal transmission and tick Maternal transmission of parasite is not approved yet. **Material and Methods:** Ninety-seven blood samples of guard and sheep dogs in districts of Isfahan, Iran with average age of 3.5 years were selected randomly and examined. PCR was applied to analyze the extracted DNA from blood samples. **Result:** Out of ninety-seven guard and sheep dogs whose blood samples were examined using PCR, 12 samples were positive (12.37%) for Borreliosis. The positive samples consist of 10 (10.30%) male and 2 female dogs (2.06%). Complete blood count (C.B.C) was performed for each sample but Hematologic changes in infested samples were not recognizable. In the survey of *Borrelia burgdorferi* prevalence with SPSS (version 24.0) and by Fischer exact test there was a significant difference between age groups 1-2 years old ($P=0.029$) and this age group with age group of more than 3 years old ($P=0.032$) and also there was a significant relation between sex and rate of infection by using chi square method. **Conclusion:** The results demonstrate that the prevalence of *Borrelia burgdorferi* is relatively high in dogs from the Isfahan province, Iran.

کلمات کلیدی:

Borrelia burgdorferi, Dogs, Isfahan, PCR, Iran

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