PREVALENCE OF *EHRlichia* SPP IN TICKS COLLECTED FROM DOGS IN PROVINCE OF VAN IN TURKEY

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ABSTRACT

Ticks *Rhipicephalus sanguineus* of Rhipicephalus strain of Ixodidae family are biological mediators to transfer of Rickettsia pathogens such as Ehrlichia and Anaplasma in animals. In the present study, a total of 220 ticks were collected from 55 infested dogs. The ticks’ taxonomy was carried out through microscopically. Additionally, DNA extraction from ticks was conducted and nested PCR was performed to differentiate the *Ehrlichia* spp. The obtained results indicates that collected ticks were belong to *Rhipicephalus sanguineus* of Rhipicephalus strain of Ixodidae family of ticks. The PCR results showed *Ehrlichia* spp. was present in ticks and *E. canis* was more common (50 of 220 ticks) than *E. ewingii* (3 of 220 ticks). In conclusion, *E. canis* was firstly detected in *R. sanguineus* tick in dogs in the Province of Van in Turkey. *E. ewingii* was firstly detected in *R. sanguineus* tick in dogs in Turkey. Its presence in dogs indicates the potential factor for public health hazard in Turkey

**Keywords:** Dog, *Ehrlichia* spp, Nested PCR, *Rhipicephalus sanguineus*. 