

## عنوان مقاله:

Prevalence and phylogenetic analysis of *Theileria equi* in Iranian dromedaries

## محل انتشار:

مجله آرشیو رازی، دوره 71، شماره 3 (سال: 1395)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

Considering the importance of *Theileria equi* infection in horse breeding industry and marketing, in the present study, we aimed to determine the prevalence of *T. equi* among dromedaries in central Iran, where a considerable number of camels and horses are raised and equine theileriosis is quite prevalent. For this purpose, a total of 161 blood samples from camels were examined in terms of *T. equi* infection, using parasitological and molecular methods. For molecular detection of *T. equi*, primers targeting the 18S rRNA gene were selected. Microscopic examination revealed that 0.6% of camels were positive for the intraerythrocytic stage of *Theileria* species, while polymerase chain reaction (PCR) method detected *T. equi* in 7 (4.3%) out of 161 camels. Sequences of 18S rRNAs from all the isolates showed more than 99% homology to each other and *T. equi* isolates in the GenBank. With respect to the single-nucleotide substitution in 18S rRNA gene of the studied camels, three different genotypes were identified and submitted to the GenBank. Considering the homology between 18S rRNA sequences of *T. equi* in the studied samples and those available in the GenBank, the phylogenetic tree formed three distinct, but highly-related clusters. In this study, age, gender, and locality were not determined as risk factors for *T. equi* infection in camels. In conclusion, this study demonstrated that *T. equi* is present among Iranian camels.

## کلمات کلیدی:

*Theileria equi*, Camel, Polymerase Chain Reaction, Phylogenetic analysis, Yazd

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1868747>

