

First report of *Toxoplasma gondii* infection and associated risk factors in the dromedary camel (*Camelus dromedarius*) population in south East Algeria

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Description:

The study aimed at assessing the prevalence of toxoplasmosis due to *T. gondii* in dromedaries by the ELISA test and to identify associated risk factors. A cross-sectional study was performed on 320 dromedaries (*Camelus dromedaries*) from January to March 2018 in four provinces of southeastern Algeria (Biskra, El- Oued, Ouargla, and Ghardaia). A structured questionnaire was used to collect data on individual characteristics, husbandry management and health conditions. The ELISA test revealed an overall seroprevalence of 15% (CI95%: 11.5–19.33). Possible factors associated with *T. gondii* infection were analyzed by univariate analysis and multivariate logistic regression. Age, husbandry system, and study area were identified as risk factors for *T. gondii* infection. Increased seropositivity was observed in old animals older than 10 years (OR = 2.81; CI: 1.51–3.87; $p = 0.003$), two times higher in animals ...

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