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Toxoplasma gondii Infection in Stray Cats

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Abstract:

Background: Cat as definitive host of *Toxoplasma gondii* is important in the epidemiology of toxoplasmosis. The object of this study was to determine the seroprevalence of *T. gondii* as well as parasite isolation from faeces and brain tissues of stray cats in Kashan, central Iran. Methods: The prevalence of *T. gondii* was determined in serum, feces and brain tissue of 50 stray cats. IgG specific antibody to *T. gondii* was assessed by indirect fluorescent antibody test (IFAT). Results: Overall infection rate was 86% in 1:20 to 1:640 titers. The highest percentage (22%) was for 1:160 and the least (6%) were for 1: 640. *T. gondii* tissue cyst isolated from 2(4%) cats by bioassay in mice. No oocysts detected from cat stool by direct and concentration methods. Conclusion: This study showed that the prevalence of *T. gondii* in stray cats is high in Kashan region.

Keywords:

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