

عنوان مقاله:

Study on the Prevalence of Visceral Leishmaniasis in Rodent's of Azarshahr district (New Focus), northwest of Iran

محل انتشار:

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خلاصه مقاله:

To examine the seroprevalence of zoonotic visceral leishmaniasis (ZVL) among rodents in Azarshahr County, and to assess the possible association of infection among rodents in respect with transmission/prevalence of the disease among children, a survey was conducted during ۲۰۰۳-۲۰۰۴. Azarshahr County is an endemic region for leishmaniasis and this research is the first study in determining the host reservoirs in this county. In this survey, ۲۶۵ rodents belonging to ۷ genera/species were trapped alive. Anti-Leishmanial antibodies were detected through direct agglutination test (DAT), indirect fluorescent antibody tests (IFAT) and microscopic examination. Fourteen (۵.۳%) animals were shown to be seropositive, ۲۷ (۱۰.۲%) provided relatively lower titers, and ۲۲۴ (۸۴.۵%) turned out to be seronegative. Amastigotes of *Leishmania* were observed in ۴ seropositive rodents including ۱ *Meriones persicus*, ۲ *Cricetulus migratorius* and ۱ *Mesocricetus auratus* after dissection and parasitological examinations. Multiple analyses of PCR were used to reassure the identity of purified isolates and infected clinical samples. According to the results of this study, the isolates were identified as *Leishmania infantum* and those infected rodents are assumed to be potential host reservoirs for visceral leishmaniasis in the region. This work is the first report of detecting *L. infantum* infection in *Cricetulus migratorius*, *Meriones persicus* and *Mesocricetus auratus* from Azarshahr of Iran.

کلمات کلیدی:

Leishmaniasis, Kala azar, Epidemiology, host reservoir, PCR

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