عنوان مقاله:

Molecular diagnosis of Hymenolepis diminuta in human and rats in Babylon Province, Iraq

محل انتشار:

مجله بین المللی تحقیقات دامپزشکی, دوره 3, شماره 2 (سال: 1402)

تعداد صفحات اصل مقاله: 11

نویسندگان:

.A.M. Al-Musawi - *Department of Parasitology, College of Veterinary Medicine, Al-Qasim Green University, Babylon*

.S.M. Kareem - *Department of Parasitology, College of Veterinary Medicine, Al-Qasim Green University, Babylon*

.H. Alseady - *Babylon Technical Institute, Al-Furat Al-Awsat Technical University, Babylon, Iraq*

T.A.H. AL-Rubeaye - *Technical animal production department, AL-Mussaib technical college, AL-Furat Al-Awsat Technical University*

.S.S.H. Alshkarchy - *Department of Parasitology, College of Veterinary Medicine, Al-Qasim Green University, Babylon*

خلاصه مقاله:

The current study's objective was to use molecular technique to detect the parasite in samples taken from human and rats in Babylon province. A total of ۱۰۰ stool samples from human and ۴۰ fecal samples from rats were collected during the beginning of July ۲۰۲۱ to the end of October and analysed by molecular methods. Molecular description of H. diminuta was achieved by gene sequence of internal transcribed spacer ۱ (ITS۱). The PCR confirmed the identification of the parasite by electrophoresis as well as DNA sequencing. The result showed that the infection rate in human was (۵/۱۰۰) ۵%, while in rats was (۱۱/۴۰) ۲۷.۵۰%, DNA sequencing detected ۵ positive samples of human were H. diminuta and ۵ positive samples from rats were H. diminuta. We conclude from the present results that H. diminuta is similar in both human and rats, and thus it is a source of infection for human. We recommended to detect H. diminuta in other .rodents as source of zoonotic infection

کلمات کلیدی:

Hymenolepis diminuta, PCR, Human, Rats, ITS۱, Sequence analysis