



Iran J Parasitol, Supplementary Issue, Vol. 13, No. 1, Jan 2017
Proceedings of the 3rd International & 10th National Congress of Parasitology & Parasitic Diseases of Iran
(NICOPA 10)
Shiraz, Iran: 1-3 November 2017

TITLE	Heidari Z ^{1,2} , Kia EB ^{1,2} , Mobedi I ¹ , Mohebbali M ^{1,2} , Zarei Z ¹ , Arzamani K ³
Helminth parasites of domestic and wild canines of North Khorasan Province, northeast Iran with special reference to zoonotic species	<ol style="list-style-type: none">1. Department of Medical Parasitology and Mycology, School of Public Health, Tebran University of Medical Sciences, Tebran, Iran2. Center for Research of Endemic Parasites of Iran (CREPI), Tebran University of Medical Sciences, Tebran, Iran3. Vector-borne Diseases Research Center, North Khorasan University of Medical Sciences, Bojnurd, Iran
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<p>Background: Canines are one of the most important sources of zoonotic parasites throughout the world. This study aimed to determine helminthic parasites of domestic and wild canines in North Khorasan Province with emphasizes on zoonotic species.</p> <p>Methods: During 2013-2014 the carcasses of 106 canines including jackal, fox, stray dog, and wolf were collected from the study area and after necropsy different tissues examined for infectivity with helminthic parasites.</p> <p>Results: Overall, 91 canines (85.8%) were infected with at least with one helminthic parasite. The species and percent of infection were as follows:</p> <ul style="list-style-type: none">- Trematoda: <i>Brachylaima</i> sp. 0.9%.- Cestoda: <i>Mesocystoides brevis</i> 61.3%; <i>Taenia hydatigena</i> 13.2%; <i>Dipylidium caninum</i> 11.3%; <i>Echinococcus multilocularis</i> 2.4%; <i>Echinococcus granulosus</i> 6.6%; <i>Taenia endotheoracicus</i> 3.8%; <i>Taenia taeniaeformis</i> 2.8%; <i>Joyceiella echinorhynchoides</i> 1.9%; <i>Taenia polyacantha</i> 1.9%; <i>Taenia multiceps</i> 0.9%.- Nematoda: <i>Trichinella</i> sp. 31.4%; <i>Rictularia cabirensis</i> 20.7%; <i>Toxascaris leonina</i> 15.1%; <i>Trichuris georgicus</i> 10.4%; <i>Oxyntema numidica</i> 8.5%; <i>Spirocera lupi</i> 7.7%; <i>Toxocara canis</i> 7.5%; <i>Dirofilaria immitis</i> 5.2%; <i>Physaloptera praeputialis</i> 1.9%; <i>Gongylonema</i> sp. 1.3%; <i>Ancylostoma caninum</i> 0.9%; <i>Strongyloid</i> sp. 0.9%.- Acanthocephala: <i>Macracanthorhynchus hirudinaceus</i> 18.9%; <i>Oncicola canis</i> 0.9%. <p>Conclusion: Among 25 species identified, most of them have public health importance and <i>Echinococcus</i> spp. are the most important zoonotic species.</p> <p>Keywords: Helminth, Canid, Zoonose, Iran</p>	