

## عنوان مقاله:

Prevalence and Morphometric Comparison of Trichostrongylus spp. among Sheep and Goats from Kashan Abattoir, Central Iran

## محل انتشار:

مجله میکروبیولوژی پزشکی و بیماریهای عفونی, دوره 11, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

Mohsen Arbabi - Department of Medical Parasitology, Kashan University of Medical Sciences, Kashan, Iran

.Aimohammad Bakhshi - Department of Medical Parasitology, Kashan University of Medical Sciences, Kashan, Iran

.Hossein Hooshyar - Department of Medical Parasitology, Kashan University of Medical Sciences, Kashan, Iran

Reza Ghasemikhah - Department of Medical Parasitology, Arak University of Medical Sciences, Arak, Iran

.Mahdi Delavari - Department of Medical Parasitology, Kashan University of Medical Sciences, Kashan, Iran

Mojtaba Sehat - Department of Community Medicine, Kashan University of Medical Sciences, Kashan, Iran

## خلاصه مقاله:

Introduction: Trichostrongyloiasis is a prevalent infection in humans and some animals worldwide. Morphology is a reliable tool for identifying Trichostrongylus species. This study aimed to determine the prevalence of Trichostrongylus infection in livestock and compare the morphometric characteristics of the species in sheep and goats referred to Kashan Abattoir, Iran, in Yold. Methods: This cross-sectional study was performed on 11% goats and 10% sheep. The small intestine was collected from the slaughterhouse; the samples were opened and examined, and the genus and species of worms were identified based on morphological features reflected in diagnostic keys. Five morphometric indices, including body length and width, copulatory bursa width, shape length of the spicule, and gubernaculum length, were measured in Yo worm isolates. The data were analyzed using the ANOVA test in SPSS 1A software. Results: Of YAF livestock (10% goats and 10F sheep) examined, YF (9/10%) were infected with Trichostrongylus. The prevalence of infection in goats and sheep was IY.W% and F.a%, respectively. The most frequent species were Trichostrongylus colubriformis (FA.Y%), followed by Trichostrongylus vitrinus (Ya.Y%). Trichostrongylus capricula and Trichostrongylus probolurus had an incidence of IY.A%. T. probolurus showed a higher length of spicule and gubernaculum, while T. vitrinus showed a wider copulatory bursa compared to the other species (P < 0.001). Conclusion: The prevalence of Trichostrongylus infection in this region was remarkable. Morphometric and morphological methods are practical tools in differentiating male Trichostrongylus species. However, in addition to .morphometric studies, molecular methods are required to identify female worms, larvae, and eggs accurately

# کلمات کلیدی:

Nematoda, Morphology, Sheep, Goats, Trichostrongylus

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