

عنوان مقاله:

Assessment of Cryptosporidium in Patients With Gastroenteritis by Modified Ziehl-Neelsen Staining Method in East Azerbaijan Province of Iran During ۲۰۱۸-۲۰۱۹

محل انتشار:

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خلاصه مقاله:

Introduction: Cryptosporidiosis is a worldwide zoonotic disease that is caused by Cryptosporidium species and leads to acute or chronic diarrhea and vomiting in patients. Due to the suitable conditions of East Azerbaijan province for parasite transmission, the present study was performed to evaluate the prevalence of Cryptosporidium infection in patients with gastroenteritis referred to hospitals and reference laboratories of East Azerbaijan province during ۲۰۱۸-۲۰۱۹. Methods: A descriptive cross-sectional study was performed on patients with diarrhea who referred to hospitals and reference laboratories of East Azerbaijan province during ۲۰۱۸-۲۰۱۹. In this study, ۱۸۰ fecal samples were collected from patients with gastroenteritis by cluster-random sampling. Stool samples were stored in ۱۰% formalin and transferred to a parasitology laboratory and examined for parasite contamination by modified acid-fast staining (Modified Ziehl-Neelsen) method. Data were analyzed by chi-square test using SPSS. Results: Out of ۱۸۰ samples, the highest number of diarrhea samples belonged to the age group over ۴۰ years (۳۵.۵%) and the lowest belonged to the age group of ۱۰-۲۰ years (۷.۷%). Additionally, ۵۶% of subjects were male and ۴۴% were female. Of these patients, ۵۷.۷% lived in urban areas and ۴۲.۳% in rural areas. Cryptosporidium was observed in ۱.۶% (۳ cases) of patients with gastroenteritis. There was a statistically significant relationship between Cryptosporidium infection and the age of patients with diarrhea ($P < ۰.۰۵$). Conclusion: In the present study, a lower prevalence of cryptosporidiosis has been determined in comparison with previous studies in East Azerbaijan province. However, Cryptosporidium and other parasitic infections in the feces of patients with diarrhea referred to hospitals or reference laboratories need to be carefully diagnosed by appropriate parasitological methods.

کلمات کلیدی:

Cryptosporidium, Modified Ziehl-Neelsen staining, Gastroenteritis patients, East Azerbaijan province, Iran

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