Is the treatment of Enterobius vermicularis co-infection necessary to eradicate Dientamoeba fragilis infection?



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Objectives: Dientamoeba fragilis is a pathogenic protozoan of the human gastrointestinal tract with a worldwide distribution, which has emerged as an important and misdiagnosed cause of chronic gastrointestinal illnesses such as diarrhea and 'irritable-bowel-like' gastrointestinal disease. Very little research has been conducted on the use of suitable antimicrobial compounds. Furthermore, higher rates of co-infection with Enterobius vermicularis have been described, suggesting that E. vermicularis could influence the treatment of D. fragilis-infected patients. To study this, the treatment of E. vermicularis and D. fragilis co-infected patients was evaluated. Methods: Forty-nine patients with a D. fragilis infection, including 25 (51.0%) patients co-infected with E. vermicularis, were studied. All of them were treated with metronidazole. Patients with E. vermicularis co-infection and/or an E. vermicularis-positive case in the family were treated with mebendazole. Results:

Metronidazole treatment failure was significantly more frequent in patients with E. vermicularis co-infection and in patients with children in the family. Conclusions: Co-infection with E. vermicularis may act as a factor favoring D. fragilis infection by preventing eradication measures. This suggests that both parasites should be treated simultaneously. © 2016 Published by Elsevier Ltd on behalf of International Society for Infectious Diseases.

Dientamoeba fragilis

Enterobius vermicularis
Metronidazole
Parasite infection
Treatment
mebendazole
metronidazole
paromomycin
anthelmintic agent
antiprotozoal agent
mebendazole
metronidazole
adolescent
adult
aged
Article
asymptomatic disease
child
clinical article
clinical feature
consultation
dientamoebiasis
drug treatment failure
enterobiasis
Enterobius vermicularis
eradication therapy
female

treatment response
animal
Coinfection
Dientamoeba
dientamoebiasis
drug effects
enterobiasis
Enterobius
feces
middle aged
parasitology
physiology
preschool child
young adult
Adolescent
Adult
Aged
Animals
Anthelmintics
Antiprotozoal Agents
Child
Child, Preschool

human

male

immigrant

mixed infection

Coinfection
Dientamoeba
Dientamoebiasis
Enterobiasis
Enterobius
Feces
Female
Humans
Male
Mebendazole
Metronidazole
Middle Aged
Young Adult