

DIFFERENTIAL DIAGNOSIS OF *Entamoeba* spp IN STOOL SAMPLES USING POLYMERASE CHAIN REACTION

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ABSTRACT

Objective: Diagnosis of *E. histolytica* and *E. dispar* by conventional PCR and determine epidemiology for both parasites by conventional PCR

Methods: (40) stool sample from suspected patients with *E. histolytica* /*E. dispar* and (50) sample of healthy individuals as a control, were examined by direct smear method and wet preparation method to differentiated for infection with *E. histolytica* and *E. dispar* by CP5 and ED-1 genes.

Result: The results showed that (72.5%) were positive for CP5 gene for *E. histolytica* and (27.5%) was negative for CP5 gene but positive for the specific primer (Ed-1) of *E. dispar*.

Conclusion: Our finding suggests that CP5 gene could be using as a specific diagnosis gene for differentiation between *E. histolytica* and *E. dispar*.

KEYWORDS: Conventional PCR and Determine Epidemiology, Diagnosis Gene