

## The Effect of *Entamoeba histolytica* Infection on Levels of Adiponectin and Histamine in Children

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### ABSTRACT

The objective of this work is investigating the effect of *Entamoeba histolytica* on adiponectin and histamine levels in children. The current work was performed among children aged 8 years to 12 years. The blood and feces samples obtained from children who attended Children's Hospital between June to September 2021. 50 children used in current, who diagnosed with diarrhea and abdominal pain, on the other hand, 25 healthy children, were used in this study as control group. The findings of current study were exhibit significant ( $P<0.05$ ) reduce in adiponectin levels of infected children compared with healthy children. While the findings of this study exhibit significant elevate in histamine concentration of infected children. So, *E. histolytica* may stimulate the secretion of adiponectin and reduce the release of histamine in children.

Keywords: *E. histolytica*, Histamine, Adiponectin, Amebiasis

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