

## **Research No.(2): Multiple Authors**

### **Prevalence and genotyping of zoonotic *Giardia* from Fayoum Governorate Egypt.**

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#### **Abstract**

The aim of this study was to investigate the possible public health significance of calves' giardiasis in a small farm village in Egypt. Fecal examination of children and their contact calves revealed infection by *Giardia* cysts up to 25% and 30.8% respectively.

Protein fraction at molecular weight of 33 kDa as a giardins fraction, was found to be closely related to zoonotic strain of calves' *Giardia* using Western blot analysis.

Amplification and sequencing of a 292 bp fragment of 16S-rRNA ribosomal unit from 25 calves' *Giardia* isolates using nested PCR revealed that 20 % of these isolates were belonging to the zoonotic *Giardia* Assemblage A, while the rest of the isolates (80%) were in Assemblage of livestock genotype (E). This level of calve zoonotic *Giardia* genotype demonstrates the possible role of calves as a reservoir for human infection in this village.