

Part VI

SUMMARY AND CONCLUSION

SUMMARY

Giardiasis is an intestinal protozoal infection. Interest in this infection has increased considerably in the last decade. One reason for this has been the gradual recognition that Giardia organisms in humans are potentially pathogenic. While most frequently they occur in the absence of symptoms, yet they are sometimes capable of causing a mild, self-limiting intestinal syndrome, and even rarely are responsible for serious diseases.

To study the prevalence of giardiasis among children in Kalyobia governorate, a random sample of 200 children attending the inpatient clinic of Banha University Hospital were chosen. Their ages were ranging from 3 months to 12 years. Stool examination was performed, and out of 200 samples, 55 specimens were positive for Giardia cysts or trophozoites giving an incidence of 27.5%. Mixed infections were encountered in 8 cases (14.54%). As regards to sex prevalence males (26.92%) were more or less equally affected as females (28.57%). The prevalence was somewhat higher among the preschool children (31.53%) than the school children (20%).

The clinical presentations of giardiasis were quite variable, In the present work 21.82% of the children had passed cysts asymptotically when diagnosed. Foul smelling stools, anorexia, abdominal pain diarrhea and flatulence were the frequent symptoms encountered in the children. Anemia was detected in 72.75% of the patients and eosinophilia was recorded in 29.78% of cases.

All the children were subjected to treatment with metronidazole in a dose of 20 mg/kg/day for a period of 7-10 days. The cure rate obtained with metronidazole was 83.63%. Cases showing failure of the first course therapy were given another course with a dose of 25-50 mg/kg/day for three days.

### C O N C L U S I O N

Giardiasis is one of the most prevalent protozoal infection among children. It is a highly communicable disease , capable of affecting any age or sex. Contaminated water acts as a significant source for contracting the infection. Giardiasis is frequently presented with characteristic foul-smelling stools. It may be an intensifying factor for anemia and it is usually associated with eosinophilia . Stool examination is an easy, quick and adequate method for the diagnosis of Giardia infection.