



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكرو فيلم

# بسم الله الرحمن الرحيم



**MONA MAGHRABY**



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكرو فيلم



# شبكة المعلومات الجامعية التوثيق الإلكتروني والميكرو فيلم



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# **Advanced Studies on Some Internal Parasitic Infection in Sheep**

A thesis submitted by

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(Msv.c degree of Veterinary Science 2014)

Faculty of Veterinary Medicine

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For

**The Degree of PH.D**

(Infectious diseases)

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### **Infection In Sheep**

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**ABSTRACT**

Infection by parasites in sheep in Egypt is under continuous changes due to the massive variability in the applied strategies of treatment and control. For this reason, updating the prevalence data about enteric parasitic infection in sheep is still valuable. The present study recorded the prevalence of infection by different enteric parasites in sheep that reached up to 60.16% with the highest rate in animals of 1-2 years old. PGE, *Trichurius spp.*, *Strongyloides spp.*, *Fasciola spp.*, *Paramphistomum spp.*, *Moniezia spp.* and *Eimeria spp.* oocysts are the common parasites diagnosed in the investigated sheep. Most of the investigated animals (57.59%) were infected by one parasite only. Seasonality of infection as well as the effect of the animals age were also investigated. Application of strategic treatment by two treatments per year at the time of the peak of infection leads to marked improvement in the mean body weight, blood picture together with significant decrease in TLC. Moreover, the previously recorded abnormalities in selected serum biochemical constituents returned to normal levels. Evaluating the diagnostic efficacy of two pooled Copro Ag(s) prepared from feces and larvae of PGE infected sheep in comparison with Ag(s) of *Haemonchus spp.* & *Trichostrongylus spp.* using indirect and sandwich ELISA, revealed higher sensitivity for pooled Copro and larval Ag(s) than that of the individual parasitic Ag(s) in detecting Ab(s) in infected animals. Copro Ag showed high sensitivity (87.69%) than larval Ag (75.38%). Pooled larval antigen showed high specificity (86.66%) than Copro Ag (78.33%), with-out cross reaction with non-infected controls. In migrating and inhibited larvae, pooled Ag showed 80% sensitivity in detecting PGE circulating antigens in animals without eggs in feces. Diagnosis of infection by inhibited larvae using pooled larval antigen is a promising method in expecting time of auto-infection of sheep.

**Key Words:** Sheep-Internal parasite- seasonality- Copro-antigen- Sandwich ELISA – Strategic control.



## ***Dedication***

*To my father, my mother, my brother, my  
sisters & my husband whom I am indebted  
to them for happiness in my life*



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