

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو



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MONA MAGHRABY





Cairo University Faculty of Veterinary Medicine Department of Medicine and Infectious Diseases

Advanced Studies on Some Internal Parasitic Infection in Sheep

A thesis submitted by

Hend Mohsen Ahmed Ahmed

(B.Sc., 2009, Faculty of veterinary medicine, Cairo University)
(Msv.c degree of Veterinary Science 2014)
Faculty of Veterinary Medicine
Cairo University

For **The Degree of PH.D** (Infectious diseases)

Under the Supervision of

Prof. Dr. Mahmoud M. Amin

Professor of infectious diseases Faculty of veterinary medicine Cairo university

Prof. Dr. Mohamed M. Elbahy

Professor of parasitology Faculty of veterinary medicine Cairo university

Prof. Dr. Abozeid A. Abozeid

Professor of infectious diseases Faculty of veterinary medicine Cairo university

Dr. Wagdy R. ElAshmawy

Assistant Professor of infectious diseases Faculty of veterinary medicine Cairo university

Cairo University
Faculty of Veterinary Medicine
Department of Medicine and Infectious diseases



Approval Sheet

This is to approve that the dissertation submitted by **Hend Mohsen Ahmed Ahmed** for the degree of PH.D (infectious diseases) has been approved by the examining committee:

Prof. Dr. Abd Elkarim AbdEltawab Mahmoud

Professor of Infectious diseases Faculty of Veterinary Medicine Alexandria University

Prof. Dr. Samya AbdElHameed

Professor of Infectious diseases Faculty of Veterinary Medicine Cairo University

Prof. Dr. Mahmoud M. Amin AbdElHady

Professor of Infectious diseases Faculty of Veterinary Medicine Cairo University (Main Supervisor)

Prof. Dr. Mohamed M.ELBahy

Professor of Parasitology
Faculty of Veterinary Medicine
Cairo University (Main Supervisor)

HIM ELBOW

Al Kareon

Date 1/5/2020





Cairo University Faculty of Veterinary Medicine Department of Medicine and Infectious Diseases

SUPERVISION SHEET

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Hend Mohsen Ahmed Ahmed

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SUPERVISION COMMITTEE:

Prof. Dr. Mahmoud Mohamed Amin AbdElhady

Professor of Infectious diseases Faculty of Veterinary Medicine Cairo University

Prof. Dr. Abozeid Abdel Meguid Abozeid

Professor of Infectious diseases Faculty of Veterinary Medicine Cairo University

Prof Dr. Mohamed Moawad ElBahy

Professor of Parasitology Faculty of Veterinary Medicine Cairo University

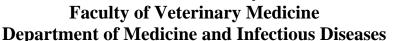
Dr. Wagdy Rady ElAshmawy

Assistant Professor of Infectious diseases Faculty of Veterinary Medicine Cairo University

2020



Cairo University Faculty of Veterinary Medicine



Name : Hend Mohsen Ahmed Ahmed

Birth date : 29/9/1987

: Arab Republic of Egypt Place of Birth

: Egyptian **Nationality** Scientific degree: PH.D Degree **Specification** : Infectious diseases

Thesis title : Advanced studies on some internal parasitic infection in sheep

Supervisors:

Prof. Dr. Mahmoud Mohamed Amin AbdElhady

Professor of Infectious diseases, Faculty of Veterinary Medicine Cairo University

Prof. Dr. Abozeid Abdel Meguid Abozeid

Professor of Infectious diseases, Faculty of Veterinary Medicine Cairo University

Prof Dr. Mohamed Moawad ElBahy

Professor of Parasitology, Faculty of Veterinary Medicine Cairo University

Dr. Wagdy Rady ElAshmawy

Assistant Professor of Infectious diseases, Faculty of Veterinary Medicine Cairo University

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 I my husband whom I am indebted to them for happiness in my life

ACKNOWELDGEMENT

In the name of Allah, the Merciful and Most Gracious

I wish to express my sincere gratitude for the kindness & encouragement of **Prof. Dr.Mahmoud M.Amin**, Professor of Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, for his stimulating supervision, guidance and Constructive criticism.

I wish to present my respect, deepest gratitude and appreciation to **Professor Dr. Mohamed M. ElBahy**, Professor of Parasitology, Faculty of veterinary Medicine, Cairo University, for his sincere supervision, wise scientific advice and encouragement during this study which made this thesis in the best way.

I sincerely thank **Prof. Dr. Abo Zeid Abd ElMeguid AboZeid,**Professor of Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, for his continuous interest and encouragement.

I wish to express my great gratitude to **Dr. Wagdy R.Elashmawy**,
Assistant Professor of Infectious Diseases, C for his helpful supervision and
continuous efforts.

Iam extremely grateful to **Dr. Marwa M. Khalifa** lecturer of parasitology, Professor of Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, for her kind and actual scientific help in this work.

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