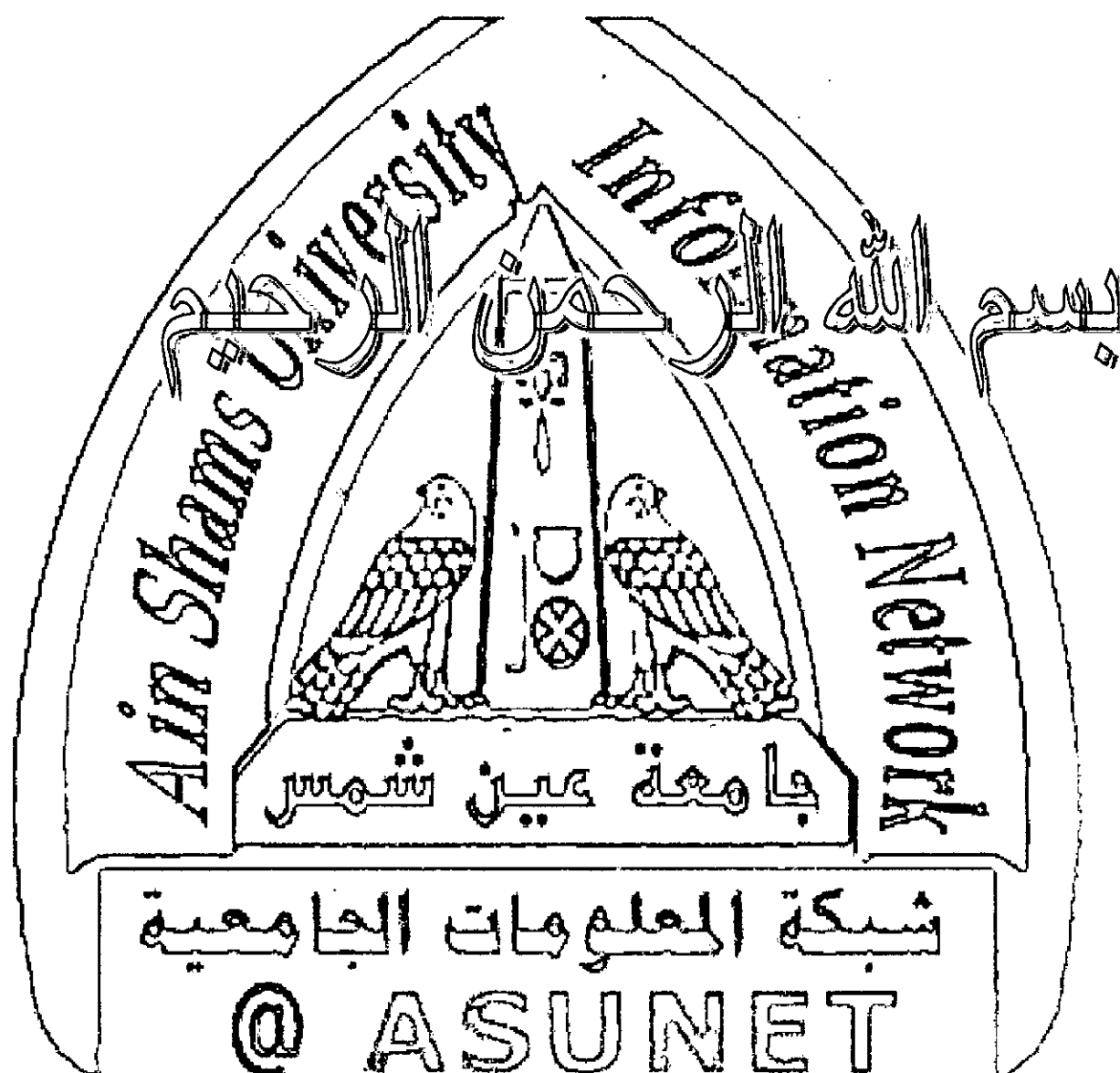




شبكة المعلومات الجامعية





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بالرسالة صفحات لح



شبكة المعلومات الجامعية
@ ASUNET

بعض الوائفان
شبكة المعلومات
Ain Shams University
Information Network
جامعة عين شمس

شبكة المعلومات الجامعية
@ ASUNET



636,089

**EFFECT OF SOME INTERNAL AND EXTERNAL
PARASITIC INFESTATION ON BODY CONDITION IN CATTLE WITH
SPECIAL REFERENCE TO LIVER FUNCTION TESTS AND SOME
TRACE ELEMENTS**

**THESIS
PRESENTED BY**

HUSSEIN AWAD HUSSEIN

(B.V.Sci. 2001, Faculty of Veterinary Medicine Assiut University)
FOR M.V.Sci. DEGREE
(Internal Veterinary Medicine)

Under
The supervision of

Dr. M. H. KARRAM

Professor of Veterinary Medicine and Clinical Laboratory Diagnosis,
Faculty of Veterinary Medicine, Assiut University

Dr. M. N. ABD-EL-SALAM

Professor of Veterinary Medicine and Clinical Laboratory Diagnosis,
Faculty of Veterinary Medicine, Assiut University

**Department of Animal Medicine, Faculty of Veterinary Medicine,
Assiut University
Assiut-Egypt.
2005**

SPYVON



كلية الطب البيطرى

بسم الله الرحمن الرحيم

قرار لجنة الحكم والمناقشة

بتاريخ ٢٠٠٥/٤/٢ م.

قررت لجنة الحكم والمناقشة ترشيح السيد ط. ب. / حسين عوض حسين محمد للحصول على درجة الماجستير فى العلوم الطبية البيطرية (أمراض باطنة).

اللجنة

ا.د. / طاهر كوثر أحمد النويهي

أستاذ الأمراض الباطنة

بكلية الطب البيطرى - جامعة القاهرة

ا.د. / عرفات صادق سيد

أستاذ الأمراض الباطنة والتشخيص المعملى والإكلينيكي

بكلية الطب البيطرى - جامعة أسيوط

ا.د. / محمد حسن كرام

أستاذ الأمراض الباطنة والتشخيص المعملى والإكلينيكي

بكلية الطب البيطرى - جامعة أسيوط

ا.د. / محمد نجيب عبدالسلام

أستاذ الأمراض الباطنة والتشخيص المعملى والإكلينيكي

بكلية الطب البيطرى - جامعة أسيوط

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

((وَاتَّقُوا اللَّهَ الَّذِي تَعَالَى الَّذِي وَإِلَيْهِ تُكَلِّمُونَ))

صدق الله العظيم

- سورة البقرة جزء من الآية رقم (٢٨٢)

**To SOUL OF MY
MOTHER**

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

First of all, prayful thanks to ALLAH for the power, endurance and every thing I have that ALLAH give me during my life.

I would like to express my cordial thanks and sincerest gratitude and appreciation to **Dr. M. H. Karram**, Professor of internal veterinary medicine and clinical laboratory diagnosis, Department of Animal Medicine Faculty of Veterinary Medicine, Assiut University, for his supervision, valuable help, advice, guidance and continuous encouragement during my study.

Deepest gratitude and thanks to **Dr. M. N. ABD-EL-Salam**, Professor of internal veterinary medicine and clinical laboratory diagnosis, Department of Animal Medicine Faculty of Veterinary Medicine, Assiut University, for his great attention, valuable guidance, kind help, and continuous encouragement during my study.

I would like to express my deepest thanks to **all staff members** of animal medicine Department, Faculty of Veterinary Medicine, Assiut University for their great valuable helps.

CONTENTS

Item	Page
INTRODUCTION	1
AIM OF THE WORK	3
REVIEW OF LITERATURE	4
I-Body condition	4
II – Liver function tests	7
III- Trace elements	10
Clinical findings of internal parasitic infestation	15
Clinical findings of external parasitic infestation	17
Clinical findings of ticks associated diseases	21
Laboratory findings of internal parasitic infestation	24
Laboratory findings of external parasitic infestation	29
Laboratory findings of ticks associated diseases	32
Materials and methods	46
Materials	46
Adopted methods	51
Results	64
Body condition	64
Clinical findings	56
Laboratory findings	58

Tables	77
Figures.....	102
Discussion	117
Summary and conclusion	133
References	138
Arabic summary	

LIST OF TABLES

Table		Page
Table 1:	List and description of different body condition score.....	4
Table 2:	Normal levels of the studied parameters of healthy cattle.....	43
Table 3:	Total number of diseased cattle and type of parasitic diseases.....	47
Table 4:	Main clinical findings in cattle with severe internal Parasitic infestation.....	61
Table 5:	Main clinical findings in cattle with external parasitic infestation.....	62
Table 6:	Main clinical findings in cattle with tick-associated diseases (<i>Theileriosis</i> and <i>Babesiosis</i>).....	63
Table 7:	Effect of type and degree of internal parasitic infection on body condition of cattle.....	64
Table 8:	Effect of type of external parasitic infestation and tick-associated diseases on body condition of cattle.....	64
Table 9:	Mean values and standard error of erythrocytic picture in Internal and external parasites infested cattle and control ones.....	77

Table 10:	Mean values and standard error of Leucogram in internal and external parasites infested cattle and control ones.....	78
Table 11:	Mean values and standard error of serum total proteins, Albumin, globulins, A/G ratio and glucose in internal and External parasites infested cattle and control ones.....	79
Table 12:	Mean values and standard error of AST, ALT and GGT in internal and external parasites infested cattle and control ones.....	80
Table 13:	Mean values and standard error of serum iron, copper,TIBC, UIBC and transferrin saturation in internal and External parasites infested cattle and control ones.....	81
Table 14:	Mean values and standard error of erythrocytic picture in internal parasites infested cattle and control ones.....	82
Table15:	Mean values and standard error of Leucogram in internal parasites infested cattle and control ones.....	83
Table 16:	Mean values and standard error of serum total proteins, albumin, globulins, A/G Ratio and glucose in internal parasites infested cattle and control ones.....	84