

بسم الله الرحمن الرحيم









شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغيار







بعض الوثائق

الأصلية تالفة







بالرسالة صفحات

لم ترد بالأصل





EVALUATION OF SOME FEED ADDITIVES ON CLINICAL AND RUMINAL FUNCTION OF SHEEP

17-11/4199/1

THESES
Presented by

EMAD-ELDEEN HELMY MOHAMED

(B.V.Sc. Assiut)
(M.V.Sc. Assiut, 1991)
For Degree of Ph.D.
(Clinical Laboratory Diagnosis)

Under The Supervision of

Prof. Dr. Raghib, M. F. Prof. of Internal Medicine & Clinical Lab. Diagnosis Faculty of Vet. Medicine Assiut University Prof. Dr. *Ibrahim H. A.*Prof. of Internal Medicine & Clinical Lab. Diagnosis
Faculty of Vet. Medicine
Assiut University

Prof. Dr. Abd-El-All, Th.S.
Prof. of Internal Medicine
& Clinical Lab. Diagnosis
Faculty of Vet. Medicine
Assiut University

Department of Animal Medicine Faculty of Veterinary Medicine Assiut University



﴿ بسم الله الرحمن الرحيم ﴾

Dept. Animal Medicine
Faculty of Vet. Medicine
Assiut University
Assiut - Egypt



قسم طب الحيوات كايسة الطب البيطرى جاممة اسسيوط أسيوط - ج . م ع.

قسرار لجنة الحكم والمناقشسسة

قسررت لجنة الحكم والمناقشية ترشيع السيد ط-ب / عماد الديسين حلمي محمسد عبيده للحصيول على درجة دكتوراه القلسفة في العلوم الطبية البيطرية (التشخيص المعملي والاكلينيكي) -

اللحنيسية

1997-7- Joseph J.

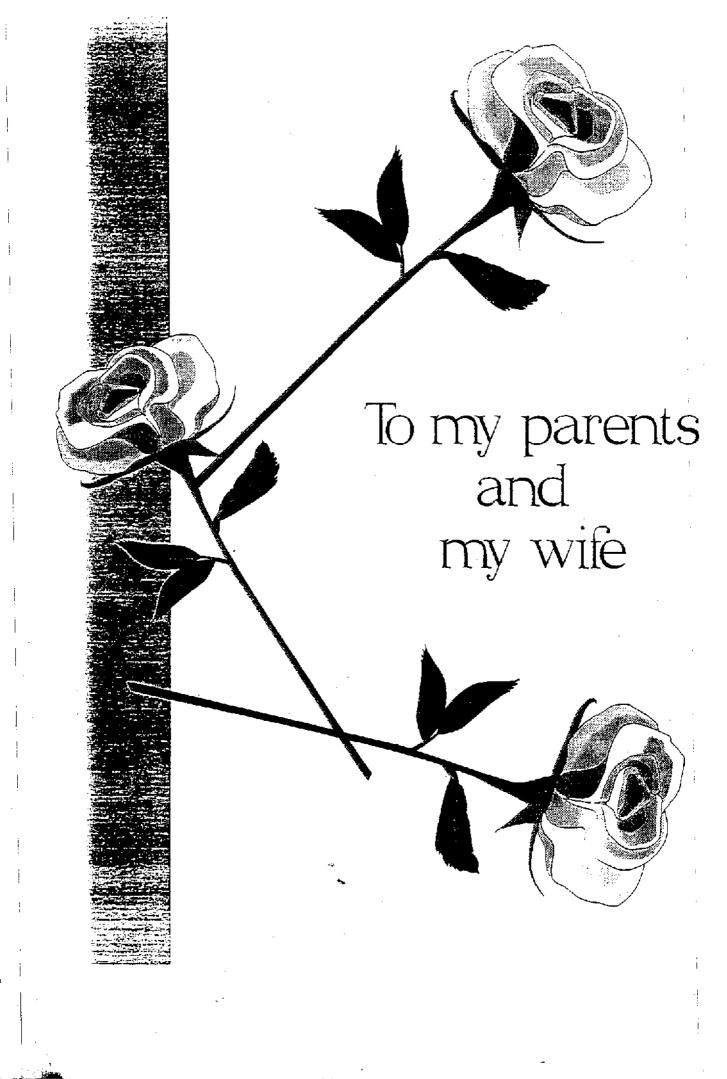
ا مد المسلم عبد الحليل الصيف من استاذ طب الحيوان العام ورئي من قسم طب الحيوان جامعة القاهم مرة

900

ا مد عبد الرؤف محمد محمد محمد الرؤف محمد المعام ورئيد معام الحيوان العام ورئيد قدم طب الحيوان جامعة الزقازيد ق

Carrent Comments

Just



ACKNOWLEDGEMENT

All gratitudes to **Allah** the great who guided and aided me to bring force for performing this thesis.

I would like to express my deepest thanks and gratitude to Prof. Dr. M.F. Raghib, Professor of internal Medicine and Clinical & Laboratory Diagnosis, Dept. of Animal Medicine, Faculty of Vet. Med., Assiut University for his kindness, supervision and encouragements during my study.

Also I'm greatly indebted to Prof. Dr. H.A. Ibrahim, Prof. of Internal Med. and Clinical & Laboratory Diagnosis, Dept. of Animal Med., Faculty of Vet. Med., Assiut University, for his valiable help encouragements and kindness during my study.

Particular indebted and gratitude to Prof. Dr. *Tharwat S. Abd ElAll*, Prof. of Internal med. and Clinical & Laboratory Diagnosis, Faculty of Vet. Med., Assiut University, for his valiable help, guidance encouragement and continous advice in performing this work.

Heartly thanks to Head of Animal Med. Dept. Prof. Dr. T.A. El-Allawy and all staff members of the Dept. for their encouragement and facilities provided during the performance of this present study. Particular indebted and gratitude to Dr. Abd El-Salam, M.N., Assis. Prof. of Internal Med. and Clinical & Lab. Diagnosis, Faculty of Vet. Med., Assiut University and Dr. Abdel-Baset, N. Sayed, Lecturer of Animal Nutrition, Fac. of Vet. Med., Assiut University for their kind help and encouragement.

My gratitude is also for all workers and technicians in the department of Animal Medicine.

CONTENTS

	Page
INTRODUCTION	1
REVIEW OF LITERATURE	4
MATERIAL AND METHODS	28
RESULTS	36
DISCUSSION	74
SUMMARY	90
REFERENCES	94
ADADIC CHIMMADV	

LIST OF TABLES

		Page
Table (1):	Number of animal sample, types of feed additive and its doses, source of collection	29
Table (2):	Chemical analysis of control ration used for feeding sheep	39
Table (3):	Live body weight, weight gain and feed conversion of clinically healthy sheep given 3 gm mophcophose (additive 1)	40
Table (4):	Live body weight, weight gain and feed conversion of clinically healthy sheep given 4 gm mophcophose (additive 1)	40
Table (5):	Live body weitht, weight gain and feed conversion of clinically healthy sheep given 5 gm mohcophose (additive 1)	41
Table (6):	Live body weitht, weight gain and feed conversion of clinically healthy sheep given 2.5 gm pronifer (additive 2)	41
Table (7):	Live body weight, weight gain and feed conversion of clinically healthy sheep at the first period (15 days) given different doses mphocphose (additive 1).	42
Table (8):	Live body weight, weight gain and feed conversion of clinically healthy sheep at the second period (30 days) given different doses mphocphose (additive 1).	42
Table (9):	Live body weight, weight gain and feed conversion of clinically healthy sheep at the third period (45 days) given different doses mphocphose (additive 1).	43

		Page
Table (10):	Physical characters of ruminal juice in healthy sheep with addition different types and dose of feed additives.	43
Table (11):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep given 3 gm mophcophose (additive 1).	44
Table (12):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep given 4 gm mophcophose (additive 1).	45
Table (13):	Physical, chemical and microbial examination in ruminal juice of clinicalls healthy sheep given 5 gm. mophcophose (additive 1).	46
Table (14):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep at the first period (15 days) given different doses mophcophose (additive 1).	47
Table (15):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep at the second period (30 days) given different doses mophcophose (additive 1).	48
Table (16):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep at the third period (45 days) given different doses mophcophose (additive 1).	49
Table (17):	Physical, chemical and microbial examination in ruminal juice of clinically healthy sheep given 2.5 gm of pronifer (additive 2).	50
Table (18):	Percent of oligatricha and holotricha in relation to total protozoa in ruminal juice of healthy sheep in different period doses and types of feed additives.	51

		Page
Table (19):	Biochemical analysis of ruminal juice contents in clinically healthy sheep given 3 gm. mophcophose (additive 1).	52
Table (20):	Biochemical analysis of ruminal juice contents in clinically healthy sheep given 4 gm. mophcophose (additive 1).	53
Table (21):	Biochemical analysis of ruminal juice contents in clinically healthy sheep given 5 gm. mophcophose (additive 1).	54
Table (22):	Biochemical analysis of ruminal juice contents in clinically healthy sheep at the first periods (15 days) with different doses of mophcophose (additive 1).	55
Table (23):	Biochemical analysis of ruminal juice contents in clinically healthy sheep at the second periods (30 days) with different doses of mophcophose (additive 1).	56
Table (24):	Biochemical analysis of ruminal juice contents in clinically healthy sheep at the third periods (45 days) with different doses of mphocophose (additive 1).	57
Table (25):	Biochemical analysis of ruminal juice contents in clinically healthy sheep given 2.5 gm. mophcophose (additive 2).	58

LIST OF FIGURES

		Page
Fig. 1:	Weight gain/day in healthy sheep given 3 gm. additive 1 at different periods	64
Fig. 2:	Weight gain/day in healthy sheep given 4 gm. additive 1 at different periods	64
Fig. 3:	Weitht and feed conversion in healthy sheep given 3 gm. additive 1 at different periods.	65
Fig. 4:	Weitht and feed conversion in healthy sheep given 4 gm. additive 1 at different periods.	65
Fig. 5:	Weight gain/day in healthy sheep given 5 gm. additive 1 at different periods	66
Fig. 6:	Weight gain/day in healthy sheep given 2.5 gm. additive 2 at different periods	66
Fig. 7:	Weitht and feed conversion in healthy sheep given 5 gm. additive 1 at different periods.	67
Fig. 8:	Weitht and feed conversion in healthy sheep given 2.5 gm. additive 2 at different periods.	67
Fig. 9:	T. protozoa, Oligotricha & Holotricha in ruminal juice of healthy sheep given 3 gm additive 1 at different periods.	68
Fig. 10:	T. protozoa, Oligotricha & Holotricha in ruminal juice of healthy sheep given 4 gm additive 1 at different periods.	68
Fig. 11:	T. protozoa, Oligotricha & Holotricha in ruminal juice of healthy sheep given 5 gm additive 1 at different periods.	69
Fig. 12:	T. protozoa, Oligotricha & Holotricha in ruminal juice of healthy sheep given 2.5 gm additive 2 at different periods.	69