

\*

**\*Email:** [ashraf\\_qahwachi@yahoo.com](mailto:ashraf_qahwachi@yahoo.com)

(2013 / 6 / 26 2013 / 3 / 6 )

234,240

/ /

15.389

.2012

2009

169

161.285

)

3

( )

)

6 (

(Ivermectin)

( ( )

% 0.46

(Phenothrin)

%82

%53

%4

(Sulphur ointment)

.2012- 2009

## **Survey of some Therapeutic Formulation for Anti-Ectoparasites Used in Clinic Veterinary in Tilkaif and Clinic Veterinary Teaching Hospital in Nineveh province**

**Enaam H. Kazal**

**Ashraf S. Alias**

*Department of Physiology Biochemistry and Pharmacology  
College of Veterinary Medicine  
University of Mosul*

### **ABSTRACT**

A survey for anti ectoparasites drugs in Clinic Veterinary of Tilkaif and Clinic veterinarian Teaching Hospital in Nineveh province, a was recorded 234.240 thousand head of field animals involving (sheep, goats, cows and buffalo) in Veterinary Clinic of Tilkaif and 15.489 thousand head of field animals involved (sheep, cows, calves, goats, lambs, rabbits, horses, cats, dogs and birds) recorded in the Veterinary Teaching Hospital for the period from 2009 to the end of 2012.

The total animals that have been treated with anti ectoparasites drugs in the Clinic Veterinary of Tilkaif was 161.285 thousand head and 169 head of animal treated in Clinic veterinary teaching hospital respectively.

Nine kinds of drugs and pharmaceuticals were used in the treatment of ectoparasites including six of them used in Clinic Veterinary of Tilkaif and three were used in the Clinic Veterinary Teaching Hospital. Ivermectin has a highest use in the treatment of ectoparasites (82%) and the lowest one Phenothrin (0.46%) in Tilkaif Clinic Veterinary, while in Clinic Veterinary Teaching Hospital, the Ivermectin also has the highest use (53%) but Sulphur ointment has the lowest use (4%).

There is no case of poisoning with drugs of ectoparasites was recorded in each of the Clinic Veterinary of Tilkaif and Clinic Veterinary Teaching Hospital. for the period of 2009-2012.

In this survey, it appears that the same veterinary drugs were dispensed frequently in Clinic veterinary teaching hospital and Clinic Veterinary of Tilkaif, and these should be taken into consideration when ordering drugs or recommending their manufacture.

**Keywords:** A survey study, Ectoparasites, anti ectoparasites drugs, Clinic Veterinary Teaching Hospital, Clinic Veterinary Tilkaif.

---

.....

2.26

( Stan, 1990; Byford *et al.*, 1992; 1993 )

(Herlich, 1978; Altaif, 1979)

(ADAR, 2007)

(FAO, 1996; Holland, 1996; FAO, 2002; Sanborn *et al.*, 2002)

(WHO, 1986 ; 1993 ; NCAP, 2003 ; 2002 ; Helfrich *et al.*, 1996; .WHO, 2006)

(Yilmaz *et al.*, 2004 ; 2011 )

(Lapage, 1968; Baldwin and LeBlance, 1994; Burr ridge and Haya, 1997 ; Brewer *et al.*, Cengiz and Ünlü, 2003; 2001)

2012 2009

.2012 2009

	Evanomic	Ivermectin	1
	Ectomethrine	Cypermethin	2
	Flumet	Flumethrin	3
	Coumaphos	Coumaphos	4
	Ectopor	Cypermethin	5
	phenothrin	D-Phenothrin	6
	Sulpher Ointment	Sulpher Ointment	7

161.285 / 234.240 /

.....

169

15.489

(2) (1)

/ /

: 1

**2012                      2009**

%						
		2012	2011	2010	2009	
78.618	126800	28500	78600	15600	4100	
18.116	29210	13100	3010	10700	2400	
3.159	5095	1870	2965	60	200	
0.116	180	-	180	-	-	
100	161285	43470	84755	26360	6700	

: 2

**2012                      2009**

%						
		2012	2011	2010	2009	
34	57	18	19	3	17	
14	24	7	6	7	4	
6	10	4	-	3	3	
12	21	2	3	3	13	
5	9	5	-	3	1	
2	3	-	2	-	1	
1	2	2	-	-	-	
5	8	2	1	4	1	
12	20	2	2	7	9	
9	15	4	4	4	3	
100	169	46	37	34	52	

%53

(%34)

% 81.718

%2 %5 %12 %6 %14

%9 %12 %5 %1

(%0.116 %3.159 %18.116 %78.618)

.(4) (3)

:3

**2012**

**2009**

%						
81.718	131800	180	2320	20000	109300	Ivermectin
9.796	15800	-	-	5000	10800	Cypermethrin
6.486	10460	-	1250	3210	6000	Flumethrin
0.620	1000	-	-	300	700	Coumaphos
0.915	1475	-	775	700	-	Ectopor
0.465	750	-	750	-	-	phenothrin
100	161285	180	5090	29210	126800	

: 4

2009

2012

3	90	2	12	3	1	-	7	14	4	17	30	Ivern الجداد
3	73	13	8	4	1	-	2	7	6	5	27	Cyper نظييس
	6	-	-	1	-	3	-	-	-	2	-	Sul Oin عبيه
0	169	15	20	8	2	3	9	21	10	24	57	

المناقشة

(1993 )  
 %78.618  
 %18.116  
 %34  
 %14  
 .(1993 )

Herlich, %53 %81.718  
 (1978)

.(2012 )

/



.....

. (1993)

.519 .

.(2012)

.(2011)

/

.(1)19

.(1993)

.8-6 10

.(2002)

. [www.aun.edu.eg/arabic/mag/](http://www.aun.edu.eg/arabic/mag/) .23 .

- Agriculture Department: Agriculture Republic of South Africa. (2007). External parasites of cattle. [www.nda.agric.za/docs/.../ExtParasitesCattle.pdf](http://www.nda.agric.za/docs/.../ExtParasitesCattle.pdf)
- Altaif, K.I. (1979). Effect of anthelmintic treatment on the performance of Awassi sheep in Iraq. *Trop. Anim. Health. Prod.* **III**, 241-245.
- Baldwin, W.S.; LeBlanc, G.A. (1994). Identification of multiple steroid hydroxylases in *Daphnia magna* and their modulation by xenobiotics. *Environ. Toxicol. Chem.* **13**, 1013-1021.
- Brewer, S.K.; Little, E.E.; DeLonay, A.J.; Beauvais, S.L.; Jones, S.B. (2001). Behavioral dysfunctions correlate to altered physiology in rainbow trout (*Oncorhynchus mykiss*) exposed to cholinesterase- inhibiting chemicals. *Arch. Environ. Contam. Toxicol.* **40**, 70-76.
- Burridge, L.E.; Haya, K. (1997). Lethality of pyrethrins to larvae and postlarvae of the American lobster (*Homarus americanus*). *Ecotoxicol. Environ. Safety.* **38**, 150-154.
- Byford, R.L.; Craig, M.E; Crosby, B.L. (1992). A review of ectoparasites and their effect on cattle production. *J. ANIM.* **70**, 597-602.
- Cengiz, E.I.; Ünlü, E. (2003). Histopathology of gills in mosquitofish (*Gambusia affinis*) after long-term exposure to sublethal concentrations of malathion. *J. Environ. Sci. Health B.* **38**, 581-589.
- Food and Agriculture Organization. (1996). Control of water pollution from agriculture. Food and Agricultural Organisation, Burlington, Canada.
- Food and Agriculture Organization of united nations. (2002). International code of conduct on the Distribution and use of pesticides.

- Helfrich, L.A.; Weigriann, D.L.; Hipkins, P.; Stinson, E.R. (1996). "Pesticides and Aquatic Animals: A Guide to Reducing Impacts on Aquatic Systems". Virginia cooperative extension, Publication, Virginia. pp.4-6
- Herlich, H. (1978). The importance of helminth infection in ruminants, *World Anim . Rev.* **26**, 22-26.
- Holland, P.T. (1996). Glossary of terms relating to pesticides. *Pure and Appl. Chem.*, **68** (5), 1167-1193.
- Lapage, G. (1968). "Veterinary Parasitology". 2nd ed. Oliver and Boyd, Edinburgh and London. pp. 1082-1120.
- Northwest Coalition for Alternatives to Pesticides. (2003). Malathion. *J. pesticide reform.* **23**(4), 10 - 15.
- Sanborn, M.D.; Cole, D.; Abelsohn, A.; Wei, R.E. (2002). Identifying and managing adverse environmental health effects. 4. *Pesticides CMAJ.* **166**(11), 1431-36.
- Stan, H. (1990). Pesticides. Cited by. Gordon M.H. "Principles and Applications of Gas Chromatography in Food Analysis", England. 1599 p.
- World health organization. (1986). Early detection of occupational disease. Geneva. pp.198-203
- World health organization. (2006). Pesticides and their application. For the control of vectors and pests of public health importance. Sixth edition.
- Yilmaz, M.; Gul, A.; Erbasli, K.(2004). Acute Toxicity of alpha Cypermethrin to Guppy (*Poecillia Reticulata* ). *Sci. Direct.*, **56**(4), 381-385.