



# The effect of Anthelmintic drug : Eprinomectin on the faecal examination and haematology parameter in fattening meat goat

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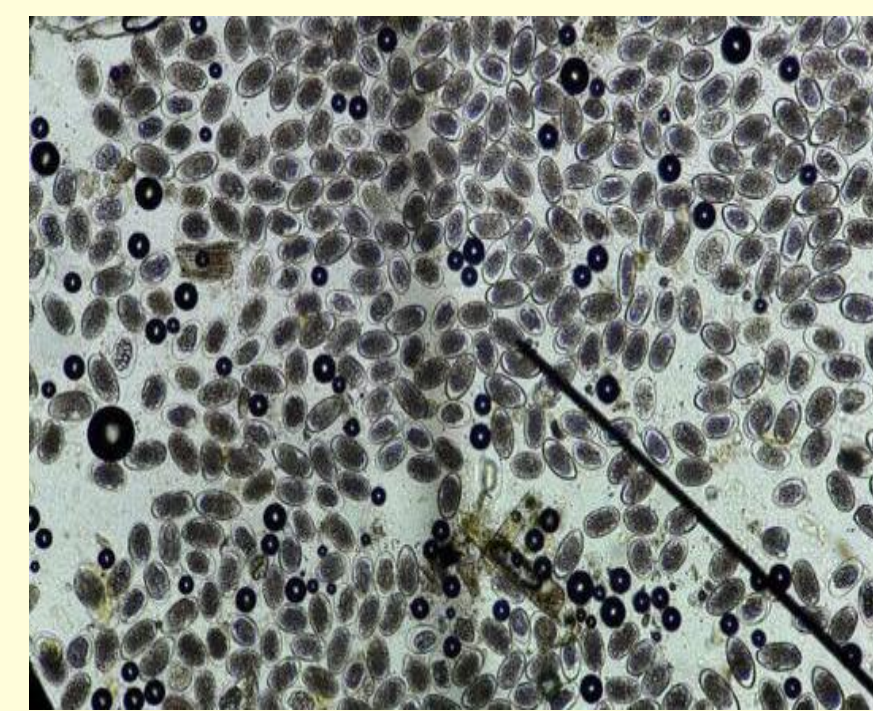
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**Introduction:** Anthelmintic is a drug used to treat infections of animals with parasitic worms. This includes both flat worms, e.g., flukes (trematodes) and tapeworms (cestodes) as well as round worms (nematodes) specially *Haemonchus contortus*. The parasites are of huge lamination for successful goat production in tropical climate. The anthelmintic drug resistant is wildly reported that illustrated the basically drug use in farm is ineffective. Eprinomectin has been reported for treatment the round worm infection in dairy cow but the goat per se. The aim of the present experiment was to evaluate the effective of Eprinomectrin use in goat and the haematology profile following the treatment.

**Material and Method:** The experiment was conducted in the commercial goat farm in Mahasarakham. Forty seven fattening meat goat which age were 3-6 month were randomly allocated into the experiment. The faeces of goat was collected at day 0 when the Eprinomectin was administrated and the day 14 after treatment. The body condition score, the dag score, the oculomuscular membrane score were recorded and the blood samples from all goats at day0 and day14 were performed.

## Result and discussion

The haematology parameter was effected after administered by Eprinomectin. The PCV, RBC, Neutrophil, Eosinophil and plasma protein were decreased. We found that the Eosinophil white blood cell decrease significantly which showed that the Eprinometric may successful cured the parasitic injection in goat.



**Figure 1:** blood samples and faeces were collected from the fattening meat goat in commercial goat farm at Mahasakham

**Table 1:** The haematology profile of goat at day0 and day14 after treatment of Eprinomectin

Parameter	Day 0		Day14		P-value	
	Mean	S.D.	Mean	S.D.		
PCV	30.58	6.194	27.947	5.349	0.022	Decreased
Hb	7.768	2.037	9.221	1.983	0.181	N.S.
RCB	12.986	3.911	11.148	3.261	0.020	Decreased
MCV	24.270	2.740	25.876	3.540	0.032	Increased
MCH	7.751	0.924	8.483	1.069	0.006	Increased
MCHC	31.938	1.151	32.869	1.512	0.058	N.S.
Platelets	457	119.5	428	83.943	0.359	N.S.
Band Neutrophils	0	0	0	0	-	-
% Neutrophils	42.316	7.196	36.00	5.617	0.001	Decreased
% Lymphocytes	49.789	7.899	59.947	5.328	<0.00001	Increased
% Monocytes	1.368	0.895	1.316	0.478	0.826	N.S.
% Eosinophils	6.632	2.362	2.737	0.653	<0.00001	Decreased
% Basophils	0	0	0	0	-	-
Plasma protein	8.579	1.084	7.232	0.662	0.0006	Decreased