

PARASITICIDES USED IN SMALL ANIMALS

DRUGS	SPECTRUM	APPROVED SPECIES	DOSAGE	HOW SUPPLIED	REMARKS
ACAREXX (Ivermectin)	Earmites <i>Otodectes</i>	Feline	0.5 ml/ear.	0.01% ivermectin Otic Suspension	For kittens \geq 4-weeks Pre-cleaning of ears not required Water-based formula For adult ear mites; Effectiveness against eggs and immature stages has not been proven
CESTEX (Epsiprantel)	Tapeworms <i>Dipylidium</i> <i>Taenia sp</i>	Canine Feline	5.5 mg/kg © 2.75 mg/kg (F)	12.5,25,50 or 100 mg tablets	Use only in animals \geq 7 weeks old.
DRONCIT (Praziquantel)	All tapes (including <i>Echinococcus</i> spp.)	Canine Feline	5 mg/kg	5.68% solution 34 mg tab-C 23 mg tab-F	Logarithmic dosage; (*increase dosge for Mesocestoides, <i>Spirometra</i> , <i>Diphyllobothrium</i> , flukes like <i>Paragonimus</i> , <i>Platynosum</i> , <i>Heterobilharzia</i> .) Use only in dogs \geq 4 weeks, kittens \geq 6 weeks.
DRONTAL (Praziquantel/ Pyrantel pamoate)	R,H, All tapes	Feline	5 mg/kg PRA 20 mg/kg PYR	Tablets	Single treatment; broad spectrum. For cats \geq 1 month.
DRONTAL PLUS (Praziquantel/Pyrantel pamoate/Febantel)	R,H,W, All tapes	Canine	5 mg/kg PRZ 5 mg/kg PYR 25 mg/kg FEB	Tablets	Single treatment; broad spectrum For puppies \geq 3 weeks old. (*3 days perhaps <i>Giardia</i>)
HEARTGARD-30 PLUS (Ivermectin/Pyrantel pamoate)	HW L3/L4 R,H	Canine	IVM>6.0 mcg/kg PYR>5 mg/kg Orally q 30 d	Same size chewables as Heartgard-30	Same remarks as for Heartgard-30. For animals \geq 6 weeks old.
HEARTGARD/CATS (Ivermectin)	HW L3/L4 H	Feline	24.0 mcg/kg orally q 30 d	55 & 165 mcg chewables	Virtually no contraindications For cats \geq 6 weeks old.
INTERCEPTOR (Milbemycin Oxime)	R,H,W HW L3,L4	Canine	0.5 mg/kg q 30 d	2.3, 5.75, 11.5, or 23 mg tablets	Also effective against heartworm L3's/L4's; Microfilaricidal; safe in collies. For dogs \geq 4 weeks old. Extra label 0.5 mg-1mg/kg PO once/wk/3 wks * <i>Pneumonyssoides caninum</i> (mite); daily for 90 days plus? *Demodex; 2 mg/kg PO once/wk/3 wks <i>Sarcoptes</i>
INTERCEPTOR Flavor Tabs For CATS (Milbemycin oxime)	R,H,HW L3,L4	Feline	2.0 mg/kg	5.75, 11.5, 23 mg chewable tablets	Virtually no contraindications For cats \geq 6 weeks old.

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IVOMEK* (Ivermectin)	*Microfilariae *L3 & L4	**Bovine	50 mcg/kg orally	1.0% sol'n. for injection	Not recommended This dosage is safe for Collies; may require 4 weeks to kill all MF; sterilizes male worms. NOT RECOMMENDED! Dogs – EXTRA-LABEL 200-400 ug/kg PO,SC * <i>Capillaria spp</i> , * <i>Trichuris vulpis</i> , * <i>T. canis</i> , (not <i>Toxascaris leonine</i>), * <i>Ancylostoma caninum</i> , * <i>A. braziliense</i> , * <i>Uncinaria stenocephala</i> , * <i>Angiostrongylus</i> , * <i>Physaloptera</i> , * <i>Dipetalonema</i> , * <i>Sacroptes</i> , * <i>Pneumonyssoides</i> , * <i>Otodectes</i> Dogs – EXTRA-LABEL 300 ug/kg SC on gestation d 0,30,60, & post-whelp d 10 = reduced prenatal infection * <i>T canis</i> Dogs – EXTRA-LABEL 300-600 ug/kg PO daily/2 mo * <i>Demodex</i> Cats – EXTRA-LABEL 200-400 ug/kg PO, SC * <i>Sarcoptes</i> , * <i>Notoedres</i> , * <i>Otodectes</i> , * <i>Cheyletiella</i> (may need repeated doses)
MILBEMITE (Milbemycin oxime)	<i>Otodectes</i>	Feline	0.5 mg/kg	1% aural solution	For cats \geq 4 weeks old
NEMEX, D-WORM, EVICT (Pyrantel pamoate)	R,H	Canine	5 mg/kg	27 or 4.54 mg/mL 22.7 or 113.5 mg tablets	Very safe; ideal for pups; +cats dose is 4X dog dose; stir before use. Also kills * <i>Physaloptera</i> .
PANACUR (Fenbendazole)	R,H,W Taenia *Giardia	Canine (Equine Bovine)	50 mg/kg 3-5 days	10% solution 22.2% granules	Very safe drug; 3 d for R,H,W, <i>Taenia</i> and * <i>Giardia</i> ; (*10-14 days for <i>Angiostrongylus</i> , <i>Capilaria ssp</i> , <i>Filaroides/Oslerus</i> , <i>Paragonimus</i> , <i>Heterobilharzia</i> and 28 day for <i>Mesocestoides</i>). +cats 50 mg/kg for 5 d H,R, <i>Taenia</i> , <i>Giardia</i> ; 10-14 d for <i>Aelurostrongylus</i> , <i>Capilaria ssp</i> , <i>Paragonimus</i> , other flukes.

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TASK TABS (Dichlorvos)	R,H	Canine Feline	5 mg/lb	10, 25, 50, or 100 mg tablets	Not for use with other anthelmintics, muscle relaxants, cholinesterase inhibitors, tranquilizers, antifilarial drugs, animals with constipation, impaired liver function, circulatory failure, heart-worm infections, or infectious disease For dogs greater than 10 days old
REVOLUTION (Selamectin)	F-A. <i>tubaeforme</i> <i>T. cat</i> , fleas, Otodectes (earmites), HW L3,L4 C=Sarcoptes (mange mites), fleas, earmites, <i>Demacenter variabilis</i> (tick) * <i>Rhipicephalus</i> HW L3,L4	Feline Canine	6 mg/kg topically	Tubes containing 15, 30, 45, 60, 120, or 240 mg SEL	For cats \geq 8 weeks old For dogs \geq 6 weeks old Also extra label for * Chewing/Sucking Lice Administered to dam @ 40, 10 d pre-whelping & 40, 10 d post-whelping reduced transplacental & lactogenic transmission of <i>T. canis</i>
SENTINEL (Milbemycin oxime/Lufenuron)	R,H,W, HW L3,L4 <i>Ctenocephalides felis</i> (fleas)	Canine	0.5 mg/kg MILB 10 mg/kg LUF	2.3/46; 5.75/115; 11.5/230; 23/460 mg MILB/LUF	Same as for Interceptor For dogs \geq 4 weeks old
**VALBAZEN (Albendazole)	* <i>Capillaria spp.</i> , * <i>Oslerus/Filaroides</i> * <i>Paragonimus</i> * <i>Trichinella</i> * <i>Giardia</i> , * <i>Leishmania</i>	Bovine	25-50 mg/kg for 5-14 days	11.4% suspension	Extra-label for dogs and cats; variable efficacy; teratogenic, myelosuppression, abortion, etc.

COMPOUNDS EFFECTIVE AGAINST VARIOUS STAGES OF *Difilaria immitis*

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Ivermectin	*Microfilariae	**Bovine	50 mcg/kg orally	1.0% sol'n. for	Not recommended

(Ivomec)**	*L3/L4			injection	This dosage is safe for Collies; may require 4 weeks to kill all MF; sterilizes male worms
(Heartgard-30)	HW L3/L4	Canine	6.0-12 mcg/kg orally q 30d	68, 136 & 272 mcg tablets or chewables	Give once every 30 days; not rapidly microfilaricidal, but causes occult infections after 5-8 months; 14-24 monthly doses killed 4 mo. old larvae For dogs \geq 6 weeks old
(Heartgard for Cats)	HW L3/L4 H	Feline	24.0 mcg/kg orally q 30d	55 & 165 mcg chewables	Virtually no contraindications For cats \geq 6 weeks old
Ivermectin/ Pyrantel pamoate (Heartgard-30 Plus)	HW L3/L4 H,R	Canine	IVM>6.0 mcg/kg PYR>5 mg/kg orally q 30d	Same size chewables as Heartgard-30	Same remarks as for Heartgard-30 for dogs \geq 6 weeks
Melarsomine dihydrochloride (Immiticide)	<i>Dirofilaria</i> adults and larvae>4 mos.	Canine	2.5 mg/kg	2.5% solution	2 doses I.M. 24 hrs. apart; less toxic than caparsolate; single regimen 90% effective; 2 nd regimen after 4 mos. Raises efficacy to 98%
Milbemycin oxime (Interceptor)	HW L3/L4 H,W,R, *Microfilariae	Canine	0.5 mg/kg q30d	2.3, 5.75, 11.5, or 23 mg tablets	Microfilaricidal; causes occult infections; maybe shock from dying mf; safe in Collies For dogs \geq 4 weeks old
(Interceptor Flavor Tabs for Cats)	HW L3,L4 H,R	Feline	2.0 mg/kg	5.75, 11.5, 23 mg chewable tablets	Virtually no contraindications
Milbemycin oxime Plus Lufenuron (Sentinel)	As Interc., plus <i>Ctenocephalides felis</i> (fleas)	Canine	0.5 mg/kg MILB 10 mg/kg LUF	2.3/46; 5.75/115; 11.5/230; 23/460 mg MILB/LUF	Same as for Interceptor
Withdrawn from Market Moxidectin (ProHeart/Proheart 6)	HW L3, L4	Canine	3 mcg/kg 0.17 mg/kg	30, 68 or 136 mcg tablets Injectible (time-released)	Efficacy for 60 days; purportedly not microfilaricidal For dogs \geq 8 weeks old HW efficacy for 6 months; purportedly not microfilaricidal /For dogs \geq 6 months old
Selamectin (Revolution)	HW L3/L4 F=HW L3/L4 H,R, Otodectes (earmites), fleas C-HW L3/L4, Sarcoptes (mange mites)	Canine, Feline	6 mg/kg topically	Tubes containing 15, 30, 45, 60, 120, or 240 mg SEL; for cats \geq 8 weeks old	Efficacy for HW prevention – 60 days; unaffected by bathing or swimming ;For dogs \geq 6 wks, cats \geq 8 wks / Extra label * Chewing/Sucking Lice/when administered to dam @ 40, 10 d pre-whelping & 40, 10 d post-whelping reduced transplacental & lactogenic transmission to <i>T. canis</i>

ANTIPROTOZOAL COMPOUNDS FOR SMALL ANIMALS

DRUGS	SPECTRUM	APPROVED SPECIES	DOSAGE	HOW SUPPLIED	REMARKS
ALBON (Sulfadimethoxine)	Coccidia	Canine Feline	50 mg/kg day 1; 25 mg/kg days 2-10	125, 250, 500 mg tablets; 5% suspension	Used for enteritis associated with coccidiosis in dogs and cats

**Allopurinol	* <i>Leishmania</i> * <i>Trypanosoma cruzi</i>	Human	Dogs: 15 mg/kg BID for months	1000, 300 mg tablest	Used as a uric acid reducer in dogs, cats, birds; use with caution in animals with renal or hepatic dysfunction
ANTIROBE CLEOSIN (Clindamycin)	Toxoplasma	Canine Feline Human	Cats (tachyzoites) 10-12 mg/kg PO every 12 hrs for 4 wks or 12.5-25 mg/kg IM every 12 hrs for 2 wks (may also stop oocysts shedding) Dogs: 10-20 mg/kg every 12 hrs for 2 wks	25, 75, 150 mg tablets oral solution	An antimicrobial; No label claim for protozoa
**BERENIL (diminazene acetate)	Trypanosomiasis Babesiosis Cytauzoonosis		NOT AVAILABLE IN U.S.		
**CORID (Amprolium)	*Coccidia	Bovine	1.5 tablespoons 30 mls/gal as sole source of drinking water for up to 10 days (dogs/cats) 1.25 gm mixed with ration for 4 puppies for up to 7 days Cats/dogs: 300- 400 mg/kg PO for 5 days or 110- 220 mg/kg for 7- 12 days	9.6% solution 20% powder	Extra-label for dogs and cats; Possible thiamine deficiency; used prophylactically (treatment usually no longer than 12 days)

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**FLAGYL (Metronidazole)	* <i>Giardia</i> * <i>Pentatrichomonas</i> * <i>Ent. Histolytica</i> * <i>Balantidium</i>	Human	25 mg/kg BID for 5-8 days	250 mg tablets 500 mg tablets	Extra-label for dogs and cats; Vomition, diarrhea, ataxia; not for pregnant or lactating bitches; carcinogenic in rats

+IMIZOL (Imidocarb dipropionate)	<i>Babesia</i> * <i>Cytauxzoon</i> * <i>Hepatozoon</i>	Canine	Dogs: 6.6 mg/kg IM/SQ Repeat in 2 weeks +Cats: 5 mg/kg IM Repeat in 2 weeks 5 mg/kg SC/IM Repeat in 2&4 weeks	120 mg/ml solution 120 mg/ml solution 120 mg/ml solution	Do not use simultaneously with exposure to cholinesterase-inhibitors, pesticides, chemicals As above; ELU As above; ELU
Meglumine antimonite (Glucantime)	<i>Leishmania</i>	Human	100 mg/kg q 24 h SQ 20 days		Adverse reactions and relapses common
PANACUR (Fenbendazole)	* <i>Giardia</i>		Canine: 50 mg/kg SID for 3 days	10% solution 22.2% granules	Use for Giardia is extra-label; relapses are common (reinfection?)
+PRIMOR (Sulfadimethoxine/Ormetoprim)	Coccidia	Canine	55 mg/kg day 1; 27.5 mg/kg days 2-14 or 21	240, 600, 1200 mg tablets	No label claim for coccidiosis in dogs

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Sulfadiazine & pyrimethamine	Coccidia (<i>Toxoplasma</i>)	Canine Human	Cats (tachyzoites): 30 mg/kg (sulfa) and 0.25-0.5 mg/kg (pyri) every 12 hrs for 2-4 weeks	30, 120, 480, 960 tablets, 24%	No label claims for coccidiosis or toxoplasmosis Bone marrow suppression may occur; add folic acid (5 mg/day) or yeast (100 mg/kg) to diet

	<i>Neospora</i>		Cats (oocysts shedding): 100 mg/kg (sulfa) and 2 mg/kg (pyri) daily for 1-2 wks. Dog		
+TRIBRISSEN (Sulfadiazine/Trimethoprim)	Coccidia (<i>Toxoplasma</i>)	Canine	Coccidian-25-50 mg/kg daily for 6 days Cats (tachyzoites): 15mg/kg PO BID for 2-4 wks	30, 120, 480, 960 mg tablest, 24% suspension for injection 30, 120, 480, 960 mg tablets, 24%	No label claims for coccidiosis or toxoplasmosis; used therapeutically
**VALBAZEN (Albendazole)	* <i>Giardia</i> * <i>Leishmania</i>	Bivine	Dogs: 25 mg/kg BID for 2-5 days Cats: 25 mg/kg BID for 5 days Dogs: 10 mg/kg SID for 30 days	11.4 suspension	Extra-label for dogs and cats; variable efficacy; teratogenic, myelosuppression, abortion, etc. As above; experimental data

** = not approved for use in small animals.

+ = not approved for use in cats

*Parasites not included on label

H = hooks; R = ascarids; W = whips; C = canine; F = feline; Bv = bovine; Eq = equine