

## Zantel Cat & Dog\_Packing Insert

Size: W10cm x H14cm

# Zantel Cat & Dog Tablets



**Composition:** Praziquantel 50 mg, Fenbendazole 500 mg.

**Product Description:** A round buff-coloured tablet with a quarter score.

**Pharmacodynamics:** Praziquantel causes spastic paralysis of the musculature of the parasites due to a membrane depolarisation of the muscle cells. It damages the normal function of the tegument, the glucose intake from the medium is inhibited and the production of lactate stimulated. The membrane is more permeable for glucose and more sensitive to the action of proteolytic enzymes. At the molecular level the mechanism of action that produces the tetanic paralysis is still not fully understood. Several groups have suggested that praziquantel opens calcium channels in the tegument to bring about this effect. Disintegrated and partially digested fragments of tapeworm segments may occasionally be seen in the faeces. Fenbendazole acts against parasites by disrupting the formation of microtubules by binding to tubulin in parasitic intestinal cells hence preventing the absorption of glucose, parasites are gradually starved to death. Fenbendazole displays preference for parasitic as opposed to mammalian tubulin. This appears to be due to the fact that the formation of the parasitic tubulin-fenbendazole complex is more favourable kinetically under physiological conditions than the mammalian complex. Fenbendazole may also inhibit energy production in helminths by inhibition of glucose uptake and glycogen breakdown.

**Pharmacokinetics:**

**PRAZIQUANTEL (PRZ)** After oral administration, PRZ is very rapidly and extensively (75-100%) absorbed. Cmax is reached within 1 hour. PRZ rapidly enters tissues but there is no accumulation. It crosses the placenta in very small amounts, leading to very low concentrations in the foetus. About 80% of PRZ is protein bound in plasma. Serum concentration of non-metabolised praziquantel is low. There is an extensive first pass effect. Within 15 minutes of oral administration in dogs, 84% of the dose is metabolised. Plasma T<sub>1/2</sub> is about 1 hour. Most praziquantel and metabolites are eliminated via the kidneys. In dogs, < 0.3% is excreted unchanged. The remainder is excreted in bile and faeces. It is rapidly eliminated from blood and is undetectable after 24 hrs. Very small amounts are excreted in milk.

**FENBENDAZOLE** Fenbendazole is poorly absorbed. Maximum plasma concentration is reached within about 20 hours and the parent drug metabolised in the liver and eliminated within 48 hours. The main metabolite, oxfendazole, also possesses anthelmintic activity. Increasing the dose rate does not significantly increase plasma levels of fenbendazole and oxfendazole. Fenbendazole when administered with food demonstrates significantly higher bioavailability than when administered on empty stomach. Excretion is mostly in the faeces with only 10% via urine. Following administration of Zantel tablets with food in dogs, Cmax for fenbendazole was 393 ng/ml, Tmax was 14 hours, AUC was 5057 ng/ml/hr and mean half-life was 5 hours. Maximum concentrations of the active metabolite, oxfendazole were 332 ng/ml, Tmax was 16 hours, AUC was 4480 ng/ml/hr and mean half-life of elimination was 5 hours. Praziquantel was rapidly absorbed, Cmax was 935 ng/ml, Tmax approximately one hour, AUC was 2765 ng/ml/hr and mean half-life was 3.5 hours.

**Indications:** A broad spectrum anthelmintic for the treatment of mixed infections of gastrointestinal nematodes and cestodes in dogs and cats.

**Ascarids** *Toxocara canis* (immature, adult), *Toxocara cati* (adult), *Toxascaris leonina* (immature, adult)  
**Hookworms** *Uncinaria stenocephala* (immature, adult), *Ancylostoma caninum* (immature, adult)  
**Whipworms** *Trichuris vulpis* (adult)  
**Tapeworms** *Echinococcus granulosus*, *Echinococcus multilocularis*, *Dipylidium caninum*, *Taenia spp.*, *Mesocostoides spp.*

Zantel Cat & Dog tablets may also be used as an aid in the control of *Giardia* protozoa in dogs and *Aelurostrongylus abstrusus* lungworm infection in cats.

**Dosage and administration:** Zantel Cat & Dog tablets are administered orally either directly or mixed with a portion of meat or sausage or mixed with food. Dietary measures or fasting are not necessary. Absorption may be improved with food.

**Routine treatment of adult dogs**

Zantel Cat & Dog tablets should be administered as a single treatment at a dose rate of 5 mg praziquantel and 50 mg fenbendazole per kg bodyweight (equivalent to 1 tablet per 10 kg). For example:

Small dogs and puppies over 6 months of age	0.5 - 2.5 kg bodyweight	¼ tablet
	2.5 - 5 kg bodyweight	½ tablet
	6 - 10 kg bodyweight	1 tablet
Medium sized dogs	11 - 15 kg bodyweight	1½ tablets
	16 - 20 kg bodyweight	2 tablets
	21 - 25 kg bodyweight	2½ tablets
	26 - 30 kg bodyweight	3 tablets
Large Dogs	31 - 35 kg bodyweight	3½ tablets
	36 - 40 kg bodyweight	4 tablets

Hydatid tapeworms - Dogs should not be fed, or allowed to feed on, offal from any species. Dogs in hydatid areas should be treated every 6 weeks.

Other tapeworms - Treat every 3 months. *Dipylidium caninum* tapeworms are transmitted by fleas. Control of this tapeworm should include flea control measures.

Roundworms and hookworms - Treat at 2,4,6,8 and 12 weeks – thereafter every 3 months.  
 Whipworms - Treat every 6 to 8 weeks after 3 months of age.

**Routine treatment of adult cats**

Zantel Cat & Dog tablets should be administered as a single treatment at a dose rate of 5 mg praziquantel and 50 mg fenbendazole per kg bodyweight (equivalent to ½ tablet per 5 kg bodyweight).

For example:

0.5 - 2.5 kg bodyweight	¼ tablet
2.5 - 5 kg bodyweight	½ tablet

Tapeworms - Treat every 3 months  
 Roundworms and hookworms - Treat at 8, and 12 weeks – thereafter every 3 months.

For routine control adult dogs and cats should be treated once every 3 months.

**Weaned puppies & kittens under 6 months of age**

Zantel Cat and Dog tablets should be administered as a single treatment at a dose rate of 5mg praziquantel and 50mg fenbendazole per kg bodyweight (equivalent to 1/2 tablet per 5kg bodyweight). Treatment should be administered for three consecutive days.

**Unweaned puppies & nursing bitches**

For the control of roundworms, it is important to worm young puppies very regularly with Zantel Cat and Dog tablets, at a dose rate 5mg praziquantel and 50mg fenbendazole per kg bodyweight daily for 3 consecutive days (equivalent to 1/2 tablet per 5 kg daily for 3 days). This treatment regime should be repeated at 2 weekly intervals from the age of 2 weeks for puppies less than 12 weeks of age. It is then recommended that Zantel Cat and Dog tablets be administered at intervals of 3 months.

Nursing bitches should be treated at the same time and as frequently as puppies up to 12 weeks of age. Thereafter the adult worming regime of once every 3 months is recommended.

**Increased dosing for specific infections**

For the treatment of *Clinical* worm infestations in adult dogs administer Zantel Cat & Dog tablets at a dose rate of 5 mg praziquantel and 50 mg fenbendazole per kg bodyweight daily for two consecutive days (equivalent to 1 tablet per 10 kg daily for 2 days).

For the treatment of *Clinical* worm infestations in adult cats and as an aid in the control of the lungworm *Aelurostrongylus abstrusus* in cats and *Giardia* protozoa in dogs administer Zantel Cat & Dog tablets at a dose rate of 5 mg praziquantel and 50 mg fenbendazole per kg bodyweight, daily for three consecutive days (equivalent to ½ tablet per 5 kg daily for 3 days).

Since one of the most common tapeworms of the dog and cat (*Dipylidium caninum*) is transmitted by a flea and has a very short pre-patent period, it is important to pay attention to flea control to reduce the incidence of tapeworm and the risk of re-infection. Praziquantel is effective against the tapeworm *Echinococcus multilocularis* in dogs and *Joyeuxiella pasqualei* in cats.

**Contra-Indications, warnings and precautions, use during pregnancy and lactation:**

Not intended for use in kittens less than 8 weeks of age.

Do not administer to pregnant cats.

Safe for use in lactating animals.

Do not exceed the stated dose when treating pregnant bitches.

Consult your veterinary surgeon before treating pregnant bitches for roundworm.

FOR ANIMAL TREATMENT ONLY.

KEEP OUT OF THE REACH AND SIGHT OF CHILDREN.

Wash hands after handling tablets.

Any unused product or waste material should be disposed of in accordance with national requirements.

**Interactions with other medications:** None known.

**Undesirable effects:** None known.

**Overdose and treatment:** Both fenbendazole and praziquantel are very well tolerated. After severe overdose occasional vomiting and transient diarrhoea may occur. Inappetence may occur following high doses in cats.

**Storage condition:** Do not store above 25°C. Protect from light.

**Pack sizes:** 100 tablets.

Manufactured by:

**chanelle**  
 Chanelle Pharmaceuticals Manufacturing Ltd.,  
 Loughrea, Co. Galway, Ireland

Registration holder and repacker:



**RHONEMA MALAYSIA SDN BHD** (200001023279)  
 Lot 18A & 18B, Jalan 241, Seksyen 51A, 46100 Petaling Jaya, Selangor, Malaysia  
 Tel: 03-7873 7355 Fax: 03-2770 0119  
 E-mail: customercareline@rhonema.com

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Colour Usage:



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<b>LABEL CODE:</b> 5LZANTE3-100 <b>PRODUCT:</b> ZANTEL CAT AND DOG TABLETS <b>PACK SIZE:</b> 100 TABLETS <b>COUNTRY:</b> MY <b>DIMENSIONS:</b> cm = 10 x 14	<b>VERSION</b>	<b>COLORS</b>
	<b>Version:</b> 3 <b>MMM/YY:</b>	<b>BLACK</b> Please use the official PANTONE® (P) matching system for an accurate color representation.

<b>Marketing approval:</b> <b>COMPLETE NAME:</b>  <b>DATE + SIGNATURE:</b>	<b>Regulatory approval:</b> <b>COMPLETE NAME:</b>  <b>DATE + SIGNATURE:</b>	<b>GMP approval:</b> <b>COMPLETE NAME:</b>  <b>DATE + SIGNATURE:</b>
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