Ketoconozole

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Ketoconazole is used in dogs, cats, and some exotic animals to treat dermatophytes and systemic fungi, such as *Blastomyces*, *Histoplasma*, and *Coccidioides*. It has also been shown effective for treatment of *Malassezia* dermatitis.

Ketoconazole has a similar mechanism of action as other antifungal agents. It inhibits the growth of fungal cells by using the differences between mammalian cells and fungal cells to help kill the fungal organism with fewer adverse effects to the host.

The body metabolizes the drug in the liver and also absorbs through the GI tract. The body disposes of the drug through the Biliary Tract.

Ketoconazole is available in 200 milligram tablets and 100 milligram per milliliter oral suspension.

(200mg)(1 tablet/200mg)=1 tablet

(10 milligrams per kilogram of weight)(20kg dog)=200mg

Water solubility: 0.00931 mg/ml

Red-Alkene Orange-Amine
Yellow-Imine Green-Ether
Blue-Halo Purple-Aromatic
Black-Amide

Alkene-hydrophobic, neither acidic nor basic
Amine-hydrophobic, mildly basic
Imine-hydrophobic, mildly basic
Ether-hydrophobic, neither acidic nor basic
Halo-hydrophobic, neither acidic nor basic
Aromatic-hydrophobic, neither acidic nor basic
Amide-hydrophobic, neither acidic nor basic

Red-Alkene Orange-Amine
Yellow-Imine Green-Ether
Blue-Halo Purple-Aromatic
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