**Microsporum canis**

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**Itraconazole**

**Dogs:** 5 mg/kg PO once a day for 7 days, stop for 7 days; repeat pattern 3 times.1,2

**Cats:** 5 mg/kg PO once a day for 7 days, stop for 7 days; repeat pattern 3 times.1,2

Itraconazole, a fungistatic triazole, inhibits the cytochrome P450 enzyme lanosterol 14α-demethylase, which converts lanosterol to ergosterol.3 Decreases in ergosterol affect membrane permeability. Avoid alkalinizing agents (eg, H2-blockers, antacids).3 Alanine aminotransferase (ALT) and serum alkaline phosphatase (SAP) levels may rise without liver disease signs, though hepatotoxicity is rare.3

In cats, the oral solution is preferred to capsules.4 Generic and compounded itraconazole have not been shown to be bioequivalent to Sporanox (janssenpharmaceuticalsinc.com).5 Generic formulations have shown similar pharmacokinetic data; compounded itraconazole has produced low plasma concentrations in dogs and should be avoided.5

**Topical Recommendations** (twice a week)6

- Lime sulfur (1:16)
- Enilconazole (1:100)
- Accelerated hydrogen peroxide rinse (1:20)
- Climbazole mousse
- Ketoconazole (1%-2%) shampoo
- Miconazole (1%-2%) shampoo

**Terbinafine**

**Dogs (Oral):** 30-35 mg/kg PO once a day6,7

**Cats (Oral):** 20 mg/kg PO once a day6,8

**Dogs, Cats (Topical):** Apply to affected areas once or twice a day9

**Formulation:** Topical, oral

Terbinafine, an allylamine antifungal agent, is effective and concentrates well in the skin, is well tolerated, and may be used as an alternative when a toxic reaction develops after administration of other antifungal drugs.8-12 To date, there have been no efficacy comparison studies between itraconazole and terbinafine.

**Fluconazole**

**Dogs:** 5-10 mg/kg PO twice a day13-15

**Cats:** 50 mg/cat PO once a day14,15

Fluconazole is a fungistatic bistriazole that inhibits cytochrome P450-mediated sterol synthesis.1 Food and gastric pH do not alter bioavailability; it is well tolerated orally.14,15

**Compounded itraconazole** has produced low plasma concentrations in dogs and should be avoided.5

*H2 = histamine receptor H2*
REFERENCES


