

For dermatophyte infections involving the hair and nails and for other infections unresponsive to topical therapy, oral antifungal agents are often used. Markedly inflammatory tinea capitis may result in scarring and hair loss, and a systemic antifungal agent plus systemic or topical glucocorticoids may be helpful in preventing these sequelae. A fungal etiology should be confirmed by direct microscopic examination or by culture before oral antifungal agents are prescribed for any infection. All the oral agents may cause hepatotoxicity. They should not be used in women who are pregnant or breast-feeding.

Griseofulvin is approved in the United States for dermatophyte infections involving the skin, hair, or nails. Common side effects of griseofulvin include gastrointestinal distress, headache, and urticaria.

Two other oral antifungal agents, itraconazole and terbinafine, are sometimes prescribed “off-label” for superficial fungal infections. Oral itraconazole is approved for onychomycosis. Itraconazole has the potential for serious interactions with other drugs requiring the P450 enzyme system for metabolism. Itraconazole should not be administered to patients with evidence of ventricular dysfunction or patients with known CHF.

Terbinafine is also approved for onychomycosis, and the granule version is approved for treatment of tinea capitis. Terbinafine has fewer interactions with other drugs than itraconazole; however, caution should be used with patients who are on multiple medications. The risk/benefit ratio should be considered when an asymptomatic toenail infection is treated with systemic agents.

The FDA has limited the use of a third oral agent due to potential hepatotoxicity and published the following: “Nizoral [ketoconazole] oral tablets should not be a first-line treatment for any fungal infection.” The topical form of ketoconazole is not affected by this action.

■ **TINEA (PITYRIASIS) VERSICOLOR**

Tinea versicolor is caused by a nondermatophytic, dimorphic fungus, *Malassezia furfur*, a normal inhabitant of the skin. The expression of