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TROPICAL DERMATOLOGY

A STUDY ON ADHERENCE-PATTERNS TO ANTIFUNGAL TREATMENT IN DERMATOPHYTOSIS IN A TERTIARY CENTRE IN SOUTH INDIA, IN THE BACKGROUND OF RISING RECURRENT DERMATOPHYTOSIS AND ANTIFUNGAL RESISTANCE.

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Introduction: Dermatophytosis has a global prevalence and relevance besides a reported alarming increase in incidence in India. More challenging is the recurrence and wide-spread anti-fungal resistance encountered. There is an absolute dearth of studies looking into adherence-pattern of antifungals in dermatophyte infections worldwide and hence the present study is designed, considering possible consequences of non-adherence.

Objectives: To assess adherence-levels to oral and topical antifungals in patients with dermatophyte infections and to identify factors influencing medication adherence.

Materials and Methods: Patients attending dermatology out-patient clinic during the oneyear study period with a clinical diagnosis of dermatophyte infection and prescribed antifungals were recruited. Relevant history, clinical and treatment details were recorded and adherence level to antifungals was measured at first follow-up-visit at 2 weeks using the 8-item Morisky-Medication-Adherence-Scale(MMAS-8) developed by Morisky et al., a wellvalidated tool.

Results: Of the 250 patients recruited, 236 were prescribed both oral and topical medications,14 were prescribed topicals alone. Male/female ratio was 0.6; mean age was 36.43±16.443 years with a range of 7-83 years. 27.2% had recurrent dermatophytosis, 19.2% had disseminated infection. 33.6% reported history of topical steroid use. Of the 236 patients treated with both oral and topical medications, mean adherence scores(MMAS-8) were 6.41 for topical and 6.82 for oral medications, and significantly higher for oral medications(P <0.001). Overall, only 38.4% patients on oral medications and 33.6% on topicals had good adherence to the medications(MMAS>6). Among the 236 patients who took oral antifungals(Fluconazole/Terbinafine/Itraconazole/Griseofulvin), there was no significant difference within mean adherence scores but was highest Fluconazole(7.06±1.082).











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Conclusions: As per the present findings, more than half the patients recruited were not following the proper dosage/schedule of the prescribed anti-fungal treatment which could potentially contribute to the menace of anti-fungal resistance and has implications on treatment-benefits and influences perceived efficacy of anti-fungals in clinical practice.





