

NAIL DISORDERS

## CLINICAL, DERMOSCOPIC AND TREATMENT PROFILE OF ONYCHOMYCOSIS IN TUNISIA

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Introduction: Onychomycosis is the most prevalent nail disease, amounting to about 50% of all onychopathies. The diagnosis and treatment of onychomycosis are still a challenge in Tunisia.

Objective: The aim of the study was to investigate the clinical, dermoscopic and treatment profile of onychomycosis in Tunisia.

Material and methods: We conducted a prospective, descriptive and analytical study enrolling all patients with mycologically proven hand and nail onychomycosis, between April 2016 and July 2017. Dermatoscopy was performed for patients with positive fungal culture.

Results: Onychomycosis was suspected in 184 patients (118 women and 66 men). The direct microscopy was positive in 94.5% of the samples, with a sensitivity of 91.3%. The fungal culture was positive in 63.8% of patients. The most frequent fungal species were T Rubrum 96,8% on the toenails and C Albicans on the fingernails (49%). Distal and lateral subungual onychomycosis was the most frequent clinical subtype (58.8%), followed by proximal subungual onychomycosis (23.5%), superficial onychomycosis (8.8%) and mixed onychomycosis (9.9%). Dermoscopic findings were subungual keratosis (70.3%), distal subungual longitudinal striae (79.4%), 'Spikes' of the proximal margin of an onycholytic area (59.5%), transverse superficial leukonychia (29.7%), linear hemorrhage (13.5%) and chromonychia. Subungual keratosis was associated with T Rubrum fungal species (94% vs 34%, p=0.012). Terbinafine and fluconazole were prescribed to 66.3% and 33.7% of patients respectively. Treatment duration was significantly higher with fluconazole (8.7 vs 3,1 months, p=0,04) leading to higher clinical cure rates (38.2% vs 24.3%)

Conclusions: Specific dermoscopic findings of onychomycosis are subungual keratosis, distal subungual longitudinal striae and jagged edge of onycholytic areas (spikes). Detection





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of these signs is simple and can, in some cases, help to avoid mycology. In low income countries like Tunisia, fluconazole could be considered an appropriate treatment option for onychomycosis.



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