

Medicated Naillacquer for the Treatment of Onychomycosis

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Abstract: Nail conditions are primarily brought on by a fungal infection. Onychomycosis, sometimes called Tinea unguis or dermatophytes onychomycosis, is a fungal nail condition. Onychomycosis is brought on by dermatophytes, Candida, and non-dermatophytes moulds. The potency of medications decreases at the site of action when administered orally or systemically. Topical routes of delivery are employed to prevent this loss of medication potency. For a higher therapeutic effect, the medications must be absorbed into the nail unit and nail plate. By using a nail drug delivery system, oral toxicity of certain medications, such as anti-fungus, can be avoided, and pharmaceuticals have a longer contact time at the application site. Due to its localised effects, limited side effects, and potential for improvement, topical treatment will be extremely attractive in treating nail diseases.

Hence in this review article we discussed about anatomy of nail, some disorders of nail and penetration enhancing methods, formulation and evaluation of nail lacquer. The drug delivery through nail plate are used in nail plate e.g. onychomycosis, green nail syndrome, paronychia and leukonychia. The nail disorders are mainly cause due to fungal or any microbial infection. The some formulations which are generally prescribed are Ciprofloxacin, Levofloxacin, Itraconazole, and Fluconazole. The some factors also affects the penetration power of nail are molecular size of drug, concentration of nail and vehicle used in formulation. In this review article we collect the information about nail anatomy, disorders of nail, drug penetration enhancing methods and treatment on the nail disorders, formulation and evaluation of nail lacquer.

Keywords: Nail Lacquer, Onychomycosis, Topical therapy, Fungal Infection

