



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.6, pp506-534,2017

Nail Psoriasis: Notion, Treatment and Current strategies- An Inclusive review

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Abstract: Psoriasis is a chronic epidermal disease to facilitate broadly affect people worldwide. Nails are epidermal appendages that are mostly prone to get affected in psoriasis patients with an estimate of about 80% likely to encounter psoriasis of nail. Crumbling, lanula red spots, leukonychia are such result in Nail matrix involvement. Sprinter hemorrhages, oil drop or salmon patches, subungual hyperkeratosis. Nail psoriasis leads to artistic as well as efficient impairment, and can also involve joints nearby infection site. The treatment for psoriasis of nail generally involves behavioral interferences, relevant medication and general systematic treatment is also available for more severe form of disease (with skin and joint involvement). Though since past few years many advances have been made in the treatment strategies and therapy for cutaneous form of the ailment, but still there is a space and need for new-fangled options in immunotherapy for nail psoriasis. Treatment selection for nail psoriasis is based on efficiency, safety, and optimal patient compliance. Though the literature suggest make use of radiation, intralesional, topical, combination, and systemic therapies for psoriasis of nail, but still selection of treatment mode is strenuous and systemic therapy associated side effects results in poor patient compliance. Hence, topical therapy is seems to be obliging amongst all with respect to toxicities and patient compliance. Topical formulations like gels, ointments, creams and nail lacquers are mostly used for psoriasis topical therapy; among which nail lacquers are most promising. The major hurdle in effective drug delivery via topical route is drug permeation via intense keratinized nail covering to attain up to nail bed and nail matrix. Physical as well as chemical permeation enhancing technique is frequently adopted intended for augmented delivery of drug and research in this field is progression. The present analysis covers anatomy and embryology of the nail, and diverse peripheral, systemic and topical treatments were clinical reported till date. Moreover, it chiefly focuses on relevant nail (polish) lacquer preparation and the factor the distressing penetration of drug transversely to the covering of nail (plate of nail). Lastly the medicated nail (polishes) lacquers are used as novel and efficient delivery system of for treating psoriasis of nail has been reviewed. It primarily focuses the lacquers nail as efficient topical formulation for nail psoriasis and also reviews in short factors affecting drug permeation in unguinal drug delivery.

Keywords: Arthritis; Drug delivery; Nails; Topical delivery; Psoriasis.