



PIGMENTATION

## “STUDY OF EFFICACY OF TOPICAL 5-FLUOROURACIL AND MICRO-NEEDLING IN CASES OF STABLE VITILIGO”

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**Background :-** Vitiligo is multifactorial and polygenic dyschromia, presenting with depigmented macules/patches. No single therapy produces predictably good results and responses are variable. Dr Sethi in 2007 found hyperpigmentation as known side-effect of 5-fluorouracil in treatment of skin tumors and psoriasis. This is the base for our study using 5-FU topically in vitiligo after dermabrasion using micro-needling method.

**AIM :-** To assess the efficacy and safety of topical 5-fluorouracil applied after dermabrasion in 10 cases of stable vitiligo which are resistant to medical treatments.

**Method :-** 10 cases of stable vitiligo were selected. Mucosal vitiligo, presence of koebner phenomenon, <15 yrs, tendency of keloid formation were excluded. Topical anaesthesia was applied for 45mins, with aseptic precautions vitiligo lesions were dermabraded using micro-needling and topical 5% 5-FU cream was applied under occlusion. Patients were asked to clean the area and apply cream for 15days followed by topical antibiotics to avoid secondary bacterial infections until epithelization is complete. Patient is evaluated every 15days for 3months.

**Results :-** At the end of 3months among 10 patients 8 patients (80%) improved with excellent repigmentation, the 2 patients failed to show satisfactory pigmentation. 1 patient among 10 reported with ulceration (10%) as he used 5%-fluorouracil continuously despite of strict advice and rest of them (90%) did not report with any side effects.

**Conclusion :-** This method of dermabrasion followed by topical 5-FU is simple, safe and a cost effective method for treating patients with stable vitiligo.

