

Comparative evaluation of therapeutic efficacy and safety of dermabrasion with PGE2 analogue (Dinoprostone), 5-Flourouracil cream (5%) and Tacrolimus (0.1%) cream in localised stable vitiligo

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Abstract

Vitiligo is associated with huge social stigma in Asian skin. The desire of novel molecules has been since long in the management of vitiligo. Our aim in the study was to evaluate therapeutic efficacy and safety of dermabrasion with PGE2 analogue (Dinoprostone gel), 5-Flourouracil (5%) cream and Tacrolimus 0.1% cream in localised stable vitiligo

Methodology & Theoretical Orientation: 60 patients of localised stable vitiligo were taken which were randomly divided into 3 groups. Dermabrasion with Dinoprostone gel, 5-Flourouracil and Tacrolimus 0.1% ointment was done in group 1, 2, and 3 respectively. The respective topical agents were instructed to be applied twice daily till 12 weeks. Follow up was done by VASI, DLQI and photographically four weekly till 36 weeks.

Findings: Repigmentation started within 4 weeks in all 3 groups. Excellent response (>75% repigmentation) was seen in 43%, 40% and 54% of group 1, 2 and 3 patients respectively. Good response (>50% repigmentation) was observed in 34%, 26%, 33%, of patients of group 1, 2 and 3 respectively. 25-50% repigmentation was seen in 4%, 8%, 10% in group 1, 2 and 3 patients respectively. No significant side effects or reoccurrence were found in the study period.

Conclusions and significance: Dermabrasion when combined with Dinoprostone gel, 5-Flourouracil (5%), or tacrolimus 0.1% ointment showed similar efficacy and side effect profile in all 3 groups with slight better response with tacrolimus ointment. This study adds novel molecule dinoprostone to the already existing basket for vitiligo management.



Biography:

Dr Jaskirat kaur is currently a resident at GGSMCH, Faridkot, Punjab, India. Her main research interest is in field of vitiligo. She has presented 3 award papers, 1 free paper and numerous posters in national conferences on vitiligo.

Speaker Publications:

1. "A comparative evaluation of the therapeutic efficacy of dermabrasion, dermabrasion combined with 5% 5-flourouracil cream, and dermabrasion combined with topical placental gel in localized vitiligo". Int J Dermatol. 2007;46:875-9.
2. "Topical tacrolimus for treatment of vitiligo in Asians". Clin Exp Dermatol. 2004;29:589-92.
3. "Efficacy and safety of tacrolimus cream 0.1% in treatment of vitiligo". Int J Dermatol. 2009;48:86-90.
4. "Parsad D, Pandhi R, Dogra S, Kumar B. Topical prostaglandin analogue (PGE2) in vitiligo –a preliminary study." Int J Dermatol. 2002;41:942-45.
- 5) "Evaluation of safety and efficacy of topical prostaglandin E2 in treatment of vitiligo". Br J Dermatol. 2008;160:861-63

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