ABSTRACT BOOK ABSTRACTS



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DERMATOLOGICAL SURGERY

PREPRATION OF NON-CILTURED EPIDERMAL CELL SUSPENSION (NCES) IN PLATLET RICH PLASMA (PRP) AS A NOVEL AND COST EFFECTIVE TECHNIQUE FOR SURGICAL MANAGEMENT OF STABLE VITILIGO.

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Background: Non cultured epidermal cell suspension (NCES) is a well established cellular grafting technique in stable vitiligo. Platlet rich plasma (PRP) containing various growth factors have a significant effect on tissue healing, repair and folliculogenesis.

Objective: To evaluate the efficacy of NCES prepared in PRP and randomized comparison with conventional NCES in a pilot study.

Methods: We randomiszed 20 patients with 50 stable vitiligo lesions into two groups. Patients in group 1 were treated with NCES prepared in PRP and in group 2 were treated with conventional NCES. They were evaluated 16 weeks post surgery in regard to extent of repigmentation, colour match and change in Dermatology Life Quality Index (DLQI) score and patient satisfaction.

Results: The extent of repigmentation was excellent (90-100% repigmentation) in 88% of lesions in NCES prepration in PRP group and 81% in conventional NCES group (P= 0.793). Good repigmentation (>75% repigmentation) was seen 92% of lesions in NCES prepration in PRP and 88% lesions in conventional NCES (P= 0.706). No significant difference was observed in pattern of repigmentation and colour match. There was significant decline in DLQI in both the groups (P= 0.0001) but the mean decrease among groups did not differ significantly (P=0.120). However, patients in NCES in PRP were more satisfied than conventional method. Adverse effects were minimal.

Conclusions: Prepration of NCES in PRP is efficacious cellular transplantation technique in stable vitiligo. This is the first study to introduce and evaluate NCES prepration in PRP.











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Limitations: This is a pilot study with limited number of subjects.



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