ABSTRACT BOOK ABSTRACTS



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DERMATOLOGICAL SURGERY

COMPARITIVE ANALYSIS OF VIABILITY AND DURATION OF SURVIVAL OF MELANOCYTES IN BLOOD PLASMA VS DULBECO'S MODIFIED EAGLE'S MEDIUM AND TO STUDY ITS EFFECTIVENESS IN STABLE VITILIGO

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Introduction: Blood plasma may replace the expensive reagents used in Noncultured Epidermal cell suspension (NCES) for stable vitiligo. Viability of melanocytes in blood plasma need to be established and compared with conventionally used reagents.

Objective: To determine the viability and duration of survival of melanocytes in blood plasma and compare its surgical results.

Materials and Methods: Sixty stable vitiligo macules from two different sites of each patient from thirty patients formed the study group. Randomization was done and divided into two groups for NCES. Group A patients received melanocytes suspended in their own plasma serum and Group B received melanocytes suspended in dulbeco's modified eagle's medium. Viability and survival duration of melanocytes was assessed in both the groups upto 12 hours by Trypan Blue dye exclusion test.

Results: Of 30 patients who were enrolled with 60 stable vitiligo macules , 15 patients with 30 lesions were placed in Group A & Group B respectively. Viability at 1st hour in Group A was 65% and Group B 53% and at the end of 12 hours Group A showed 32% & Group B 26% viability.

In Group A, \geq 97% repigmentation was achieved in 29 macules and similar results were seen in Group B.

Conclusion: Trypsin inhibitor can be replaced by blood plasma. Increased viability of melanocytes in blood plasma as shown in present study may possibly be due to growth factors in serum which may enhance the survival and activity of melanocytes.

Cell count, viability & duration of survival of melanocytes was higher in plasma. NCES with blood plasma is safe, simple, cost effective and beneficial for our vitiligo patients.





