



GLOBAL SKIN HEALTH

## PLATLET RICH PLASMA THERAPY ( PRP ) AN INDIAN STUDY

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Introduction: Platet rich plasma therapy (PRP) is very recent modality in the treatment of Dermatology and Aesthetic practice across the globe.

In the PRP therapy an autologous blood used and an abundant concentrated platelets in to a small volume of plasma prepared.

Indications:

Skin rejuvenation

Alopecia Areata

Androgenetic Alopecia

Post Acne scars

Non healing ulcers associated with connective tissue diseases

Striae

Objective: To study the effects of PRP therapy in the patients of Androgenetic Alopecia(AGA).

Materials and Methods: 20 patients included in this study age between 24yrs to 55yrs.

Patients who are suffering from blood disorders were excluded in this study. About 10 ml whole blood was drawn from median cubital vein of each volunteer and stored in centrifuge tubes containing 3.2% sodium citrate (vol/vol = 10:1,BD). Then, PRP and the PPP were prepared using 2-step centrifugation method used. After PRP was activated by adding 1000 U bovine thrombin and 0.2 ml of 10% CaCl<sub>2</sub>, it was placed at room temperature for about 10 min and then recentrifuged (3200 r/ min, 5 min, r = 13.5 cm). Finally, the supernatant was collected and stored at -80°C.

Results:

Results: Both PRP (5% and 10%) and PPP (5% and 10%) could significantly promote cell viability of the HHDPs (p4) in 72 h group, while the effect of 10% PRP on HHDP viability was less than that of 5% PRP. qRT-PCR showed that PRP could significantly increase mRNA levels of ALP and versican in HHDPs (p4) when compared with the control group.

Conclusion: In this study it is observed that AGA patients received maximum benefits of





treatment. Hair thickening increased and overall hair density increased . PRP is a good option to treat depressive AGA patients.

