



HAIR DISORDERS

EFFICACY OF PLATELET RICH PLASMA WITH MICRONEEDLING IN ANDROGENETIC ALOPECIA AND ASSESSMENT OF DURATION OF TREATMENT

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Introduction: Platelet Rich Plasma (PRP) is a simple and safe procedure. It has been used in dermatology for skin rejuvenation and alopecia.

Objective: The objective was to evaluate the efficacy of PRP with microneedling in Androgenetic alopecia (AGA) and to assess the duration of treatment.

Material and Methods: 60 patients (48 males, 12 females) with AGA were studied between August 2015 to October 2017. These patients did not respond to minoxidil treatment nor were willing to use finasteride. PRP was prepared from patient's blood by double spin centrifugation method. PRP combined with microneedling was done on scalp under aseptic conditions. 4-6 sessions were done at an interval of 6 weeks. Subjective and objective scores were assessed based on visual analog global score. Assessment was done at 1st session (baseline), at every next sitting and 6 weeks after last sitting. Follow up was done at 3rd month and at 6th month after last sitting.

Results: According to subjective scores, 2 patients (3.33 %) had excellent results, 24 (40 %) had very good, 22 (36.6 %) had good, 6 (10%) had fair and 6 (10 %) had poor results. Objective assessment scores showed 2 patients (3.33%) had excellent results, 26 (43.3%) had very good, 21 (35%) had good, 7 (11.6%) had fair and 4 (6.7%) had poor results. 50 patients underwent 4 sessions out of which 40 had satisfactory results (i.e. >40% improvement, p value <0.05) which was statistically significant. Only 10 patients underwent more than 4 sessions. Majority of patients were happy with 4 sessions.

Conclusion: PRP is a potential therapeutic tool in AGA without adverse effects particularly who fail to respond to minoxidil and refuses to use finasteride. In addition, our data sets example for assessing the number of PRP sessions required for a patient and further such studies are required to investigate on duration and efficacy.

