



HAIR DISORDERS

## PLATELET RICH PLASMA AS A TREATMENT OF ANDROGENETIC ALOPECIA

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**Background:** Androgenetic alopecia is a very common type of hair disorder affecting 50% of women and 80% of men throughout their lifetime causing significant lowering of the self-esteem and psychological distress. Unfortunately, therapies modalities are limited. Patients are mainly treated with minoxidil, 5-alpha-reductase inhibitors, and hair transplantation. Platelet-rich plasma (PRP) is an autologous preparation of platelets in concentrated plasma and has proven to promote wound healing and proliferation of dermal papilla cells when its growth factors are activated and used in mesotherapy. PRP has been used to treat androgenetic alopecia through injections in the scalp without any major adverse reactions with a variety of protocols for preparation and treatment intervals.

**Observation:** Three male patients with androgenetic alopecia received autologous PRP injections three times monthly. PRP was prepared with a single spin method (2000 G for 5 minutes) and activated with calcium gluconate. We treated the whole area with alopecia signs and analyzed two different areas (midfrontal and vertex scalp) with Fotofinder trichoscan before treatment and after 30 days of the last session. Hair count, total hair density and terminal density improved only on vertex. Patients didn't have adverse effects.

**Key message:** PRP might be a promising cheap new therapy for androgenetic alopecia with few adverse effects but efficacy might vary in different scalp areas.

