



HAIR DISORDERS

SUCCESSFUL TREATMENT OF A SEVERE CASE OF ALOPECIA AREATA WITH PLATELET-RICH PLASMA

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Background: A 44-year-old woman with severe alopecia areata (AA) accompanied with hyperthyroidism respond insufficiently to the conventionally available treatments and deteriorate persistently for more than ten years. Platelet-rich plasma (PRP) has emerged as a new treatment modality in dermatology, and preliminary evidence has suggested that it might have a beneficial role in hair growth.

Observation: When Blood test results were normal, 120 mL of blood was obtained from the patient and the scalp was anesthetized with 1% lidocaine. Treatment was then administered with autologous PRP at a concentration 4 times above baseline, and the procedure was well tolerated. Three treatments were given with intervals of 1 month, and the patient were followed. Hair regrowth was noted by month 1, and robust regrowth of hairs by month 3. Continuously, the other three treatments were given. At last, hair growth was significant and newborn hair was almost filled full of the head. Simultaneously, her hyperthyroidism has not yet been improved. After 1 year's of follow-up, there was no relapse observed in this patient. Accordingly, PRP represents a new and potentially effective treatment option for AA with minimal associated side effects. This case offers 2 important points: the first of which is the potential of PRP to treat severe case of AA, and the second of which is the most suitable interval of three continuous treatments as 3 months according to the cycle of telogen phase.

Key message: Alopecia Areata, Platelet-rich Plasma, Hyperthyroidism

